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INVESTIGATION OF MOVEMENT OF RAIN WATER IN RAILWAY TRACK BALLAST AND SUBBALLAST LAYERS

By

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ABSTRACT

Railway track system of a country plays a vital role in providing a suitable transportation. Railway track drainage has a considerable impact on the efficiency of tracks in terms of stability and response of the components to passing trains loads. A good track drainage system identifies the entire sources of water adjacent to track structure and resulted from precipitation and delivers an appropriate method for removing them as swiftly as possible.

The necessity of adequate drainage system underneath the rail tracks, track drainage principles along with the design procedures are summarised in the literature. Ballast fouling is identified, and different sources of fouling are investigated.

A study is undertaken to assess the effect of fouling on ballast permeability and drainage characteristics of this layer. The fouling materials corresponded different sources of ballast fouling. The fouling agents are considered as crushed ballast, sand and kaolin.

Hydraulic flume test is conducted in order to investigate the effect of different sections and rainfall characteristics on water level and discharge out of ballast and subballast subsequently. The mentioned variables recognised as rainfall intensity, rainfall duration, subgrade slope, and ballast fouling index or hydraulic conductivity.

The presented research evaluates findings of a laboratory-based hydraulic flume test. A numerical model based on multi-variable linear regression is developed in order to estimate the experimental data for water level and discharge out of ballast. The conducted study highlights the impact of section slope on the rate of the flow out of ballast and subballast and the remaining gravitational water. The model is used for developing a non-linear relationship between the rainfall duration and the initial ballast discharge values collected during the rainfall event.

The proposed numerical model has specific application regarding prediction of the water level and system discharge as well as evaluation of ground water conditions underneath the tracks. Therefore, it can be used in the designing procedure of drainage systems in an area where average rainfall characteristics, rainfall return-period and proposed subgrade slope can be estimated.

DEDICATION

TO MY PARENTS

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LIST OF ABBREVIATIONS

The following symbols were used in this study:

Symbol	***Description***	***Unit***
γ	Unit weight of soil	KN/m^3
u	Pore pressure	KN/m^2
ω	Water content	Percent
LL	Liquid limit	Percent
PL	Plastic limit	Percent
PI	Plasticity index	Percent
PSD	Particle size distribution	Percent
G_s	Specific gravity of soil	Unit less
υ	Poisson's ratio	Unit less
e	Void ratio	Unit less
e_0	Initial void ratio	Unit less
IMC	Initial moisture content	Percent
OMC	Optimum moisture content	Percent
DD	Dry density	Kg/m3
MDD	Maximum dry density	Kg/m3

Symbol	***Description***	***Unit***
h	Time	Hour
K_b	Ballast permeability	m/s
Ks	Subballast permeability	m/s
K	Permeability	m/s
S_r	Specific retention	Unit less
S_y	Specific yield	Unit less
S_{yb}	Ballast specific yield	Unit less
S_{ys}	Subballast specific yield	Unit less
H	Water level from base of container	m
θ	Bulk stress in loaded state	KPa
M_r	Resilient modulus	KPa
K_1, K_2	Constants for K- θ method	Unit less
q	Repeated deviator stress	PSI
σ_3	Confining pressure	PSI
Q	Required design discharge	L^3/min
Cu	Unit conversation coefficients	Unit less
C	Runoff coefficient	Unit less

Symbol	***Description***	***Unit***
i	Design rainfall intensity	L/min
A	Drainage catchment area	L^2
R	Total depth of runoff	m
P	Total depth of precipitation	m
t_c	Time of concentration	h
n	Manning surface roughness	Unit less
N	Kerby roughness parameter	Unit less
S	Slope of flow	Unit less
Q_R	Runoff quantity collected	m^3/s
Q_S	Subsurface water quantity intercepted	m^3/s
Q_C	collected water quantity from existing drainage system	m^3/s
Q_{PF}	Peak flow rate	m^3/s
V	Velocity	m/s
A	Cross-section area	m^2
i	Hydraulic gradient	Unit less
FI	Fouling index	Percent

Symbol	***Description***	***Unit***
PVC	Percentage void contamination	Percent
R_{bf}	Relative ballast fouling ratio	Percent
ρ_w	Water density	g/cm^3
e	Void ratio	Unit less
H	Ground water head in Dupuit-Forchheimer analysis	m
q	Rainfall intensity	mm/h
x	Distance from centreline	m
Z_l	Elevation of interface between ballast subballast	m
Q	Subballast discharge in in Dupuit-Forchheimer analysis	m^3/s
Yi	Estimated values in linear regression	m^3 or m
D	Rainfall duration	h
$б^2$	Variance	Unit less
ε_i	Calculated error in linear regression	Unit less
SSE	Sum of squared errors	Unit less

Symbol	***Description***	***Unit***
MSE	Mean squared error	Unit less
SSR	Sum of squared regression	Unit less
RMSE	Root mean squared error	Unit less

Chapter One INTRODUCTION

1.1 Background

In many countries railways play a vital role in providing efficient transportation for goods and people. Railway track, as a key component of the railways and needs to be fit for purpose throughout its design life. In order to maintain the efficient performance of the track, many aspects need to be considered, but perhaps one of the most important is drainage as it has a very significant impact on track performance (Rushton & Ghataora, 2009).

The adverse effects of water in track section were emphasised by many authors (e.g. Selig and Waters (1994); Heyns (2000); and Selig and Cantrell, (2011)). Water decreases the strength and stiffness of the subgrade soils, particularly fine-grained clay soils, which in turn results in the inability of the ballast to provide adequate support for the sleepers. This leads to increase in track maintenance and operating costs, and in the extreme case, this can lead to derailment of a train and track instability. Several authors have investigated the issues relating to movement of water in the track (e.g. Li and Selig (1998); Rushton and Ghataora (2009), and Indraratna et al., (2010)) highlighting the need for movement of water from the track to the cess drains in order to control of moisture in the track ballast, sub-ballast and subgrade layers. Critically there are today only a few studies that address the issue of movement of water in the track foundation layers (e.g. Heyns (2000); Rushton and Ghataora (2009); and Rushton and Ghataora, (2014).

The track drainage has a considerable effect on the durability of the track and sub-layers (ballast, subballast and subgrade). As shown in Figure 1.1, without having a suitable drainage system under the track, the useful life of the structure, expressed as a percentage of the life of a perfectly drained section, can be reduced considerably. (Cedergren, 1974)

Rushton and Ghataora (2009) believed these findings are valid for rail track sections and, highlighted the necessity of maintaining low moisture in the track section.

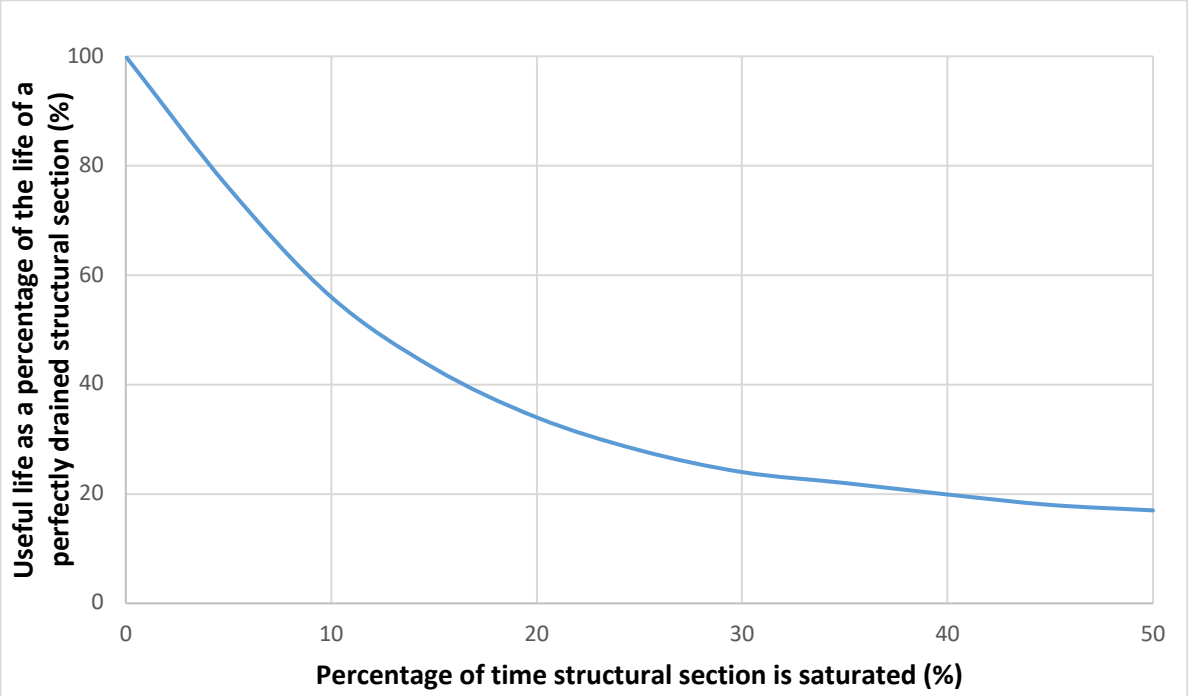


Figure 1.1 Relationship between pavement life and period of saturation (After Cedergren, 1974)

According to Li D and Selig ET (1998), ballast is the most important component of track for drainage purposes. Ballast is required to be free draining for entered water as well as distributing the load from train movements to subgrade.

Dynamic load, caused by passing trains, results in ballast degradation and breakdown. This leads to the generation of fine particles, which directly affects the permeability of ballast and track geometry. According to Indraratna et al., (2012) more that 70% of existing fine particles in ballast is generated from ballast breakage, which results in ballast fouling.

Rushton and Ghataora (2009) emphasised the effect of drainage on the durability of ballast and subballast, and also on the response of track to loading. They also highlighted the lack of analytical and numerical studies on sub-surface drainage compared to surface drainage.

This study will examine the impact of precipitation on track drainage in more realistic conditions (having fouled ballast) throughout the laboratory test. A numerical approximation will be undertaken at the highest standard of quality possible to represents track behaviour under any change to a degree of ballast fouling, duration and intensity of rainfall and subgrade slope.

1.2 Aim and objectives

The aim of this research is to investigate the movement of gravitational water under the rail track (ballast, subballast and subgrade) resulted from precipitation.

To meet this aim, the following objectives will be satisfied:

1. To produce a comprehensive literature review on existing methods of railway track drainage design, sources of water in the section and destructive impacts of the increased moisture on the section behaviour.

2. To review the sources, existing methods of quantifying and critical impacts of ballast fouling on the track behaviour.

3. To study the movement of gravitational water beneath dual-layered railroad track cross-section.

4. To assess the effect of increased ballast fouling on ballast permeability and its impact on track performance, spatially and temporally.

5. Through experimental laboratory work, determine the effects of degree of ballast contamination on the flow of water through the various layers of ballast and subballast.

6. To undertake a detailed analysis of measurements made in Objective5 and compare them with available theoretical technics and modify them as necessary to produce a numerical equation to estimate water level and cross-section discharge while having different rainfall intensities and durations, subgrade slope and ballast degree of contamination at preferential distance from the centreline and time, after ceasing of the rainfall.

1.3 Novelty of research

Current methods for evaluating the flow of water under the tracks are very limited, as they are based on one laboratory-based data set conducted by Heyns (2000) which addresses the issue of movement of water in the track foundation layers consisted of ballast and subballast located on top an impermeable subgrade layer. Further experimental efforts on refining of methods of analysis could lead to better prediction of the behaviour of ballast and subballast, particularly the effects of fouling. There is no study about the movement of water through ballast/ subballast/ subgrade system with fouled ballasts.

Limitations of the current method of evaluating the flow and prediction of water level, suggested by Young & Rushton (2009) and Rushton & Ghataora (2009), are presented and discussed in Chapter 2.

This study will lead to a development of further understanding of water movement through fouled ballast samples, over a wide range of rainfall intensities based on the UK average intensity-duration- frequency curves. This introduces an additional novelty of this study.

Moreover, using fouled ballast is considered to be a major novelty of this research. In the previous studies, clean ballast was used which is an ideal scenario and not usually found in the field. Fouled ballast, as used in this study, better reflects the filed conditions.

Furthermore, as mentioned by Heyns (2000), changing the slope of subgrade has a significant impact on the rate of rail track system drainage. Implementations of different base slope varying from horizontal (0%) to the maximum of 5% and assessing the outflow from different layers of fouled-ballast and subballast in order to achieve a realistic design value for entered water in the section, can also be recognised as another novelty of this study.

As shown in Chapter 4, increase in ballast fouling (i.e. increasing ballast fouling index) has a very significant effect on the permeability of ballast.. This affected the required time for piezometers to respond to changes in water levels in the hydraulic flume test as described in Chapter 3. An investigation conducted on measured lag-time and parameters affecting it which will be presented in Chapter 5.

Installing additional 12 piezometers at different elevations (on top of subballast and in middle of ballast) results helped to better understand changes in of water level in the ballast/sub-ballast/subgrade system. This helped to identify the formation of critical fouling index .

1.4 Structure of report

There are seven chapters presented in this thesis. The first chapter is Introduction, which gives a background about the project, clarifies the aim and objectives of this report and, proposes the novelty of this study. The next chapter is Literature review. In this section, a brief review of track components, different sources of entering water into track system, the effects of entered water, the necessity of track drainage and, current techniques and challenges of designing surface and subsurface drainage systems are covered. Ballast fouling is introduced, and its implications are studied. The movement of gravitational water beneath

railway track is investigated, and lack of analytical study on the behaviour of entered water on drainage through individual layers of ballast and subballast are highlighted in this chapter. Also, the limitations of current methods of evaluating the flow of water in the track section and the discharge out of the track section are highlighted.

The proposed laboratory tests, the testing procedure as well as required apparatus for constant head hydraulic conductivity and hydraulic flume experiments are demonstrated in Chapter 3.

Complete set of results for constant-head hydraulic conductivity and hydraulic flume laboratory tests follows by the detailed analytical studies are presented in Chapers4 and 5, respectively.

Chapter 6 illustrates the limitations of current methods of evaluating the flow of water through the track section. This section also describes the necessity of generating a numerical model based on multi-variable regression in order to predict water level and section discharge at a required time after ceasing of rainfall while having a different section and rainfall characteristics.

Finally, the last chapter is on Conclusions and Recommendations for further studies, which includes key findings of this study and proposes recommendations for further studies.

Chapter Two Literature review

According to Selig and Waters (1994), the railway system of each country can be considered as one of the most significant national transportation facilities and plays an essential role in achieving a healthy economy. Railway track networks aim to deliver safe and cost-effective means of transportation. (Selig & Waters, 1994)

Considering the fact that transportation systems usually have long-term returns on investment, a suitable drainage system can significantly reduce, or even eliminate, the maintenance expense of the network. To achieve this goal, each part of this drainage system needs to perform their specific tasks satisfactorily which include:

- Response to train/traffic loading
- Environmental factors affecting the system (Rushton & Ghataora ,2009)

This chapter defines each component of the rail track system individually and explains their functions within the system.

2.1 Track components

The efficiency and performance of the railway track system highly depends on the complex interaction of system components in response to train dynamic loading. Therefore, it is necessary to define every component of track system, accurately. (Selig & Waters, 1994)

According to Kutz (2004) and Selig and Water (1994), the track components are generally categorised into two group such as:

1. Superstructure
2. Substructure

The longitudinal and cross-section of a typical ballasted track are presented in Figures 2.1 and 2.2 respectively.

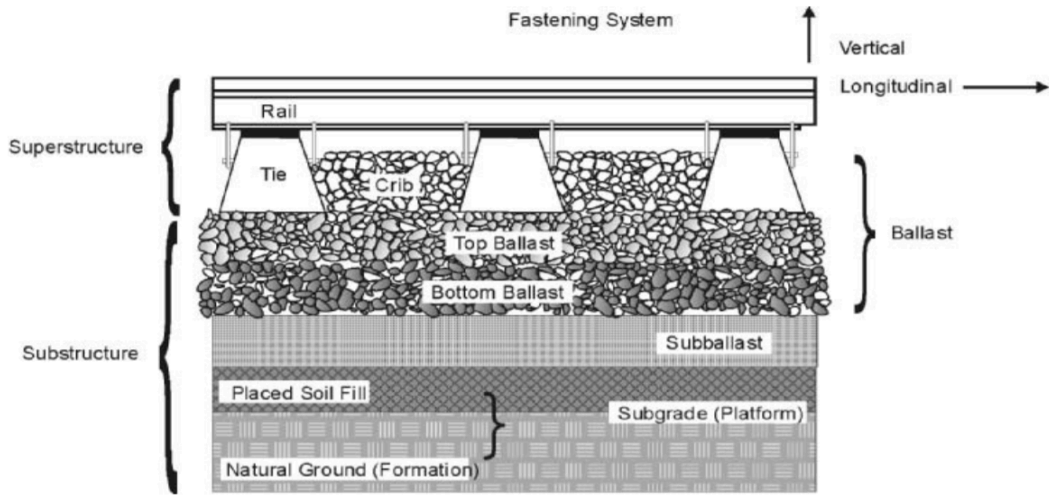


Figure 2.1 Typical longitudinal section of a ballasted railway track (Selig & Waters, 1994)

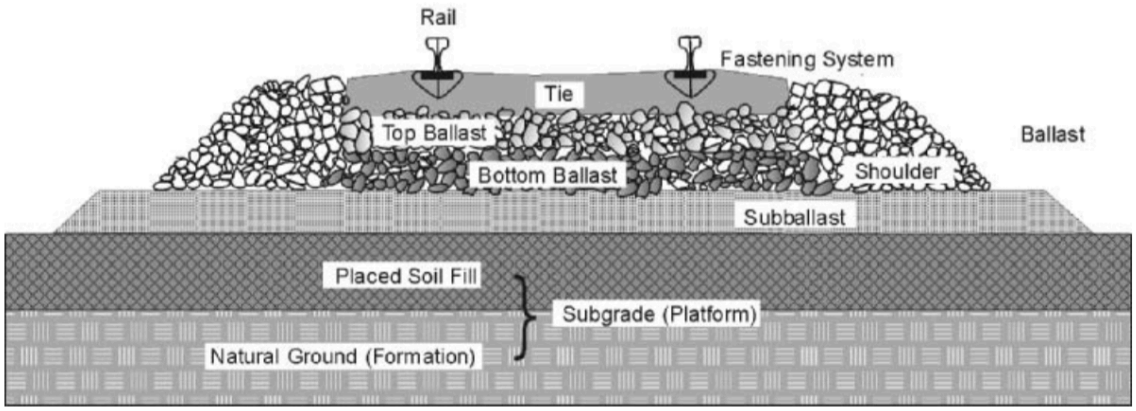


Figure 2.2 Typical cross-section of track structure (Kutz, 2004)

2.1.1 Superstructure

According to Selig and Water (1994), the top part of the track structure, which is visible without using special instruments, is called superstructure. This part consists of the following components:

- Rails
- Fastening system
- Sleepers

2.1.1.1 Rails

Selig and Water (1994), defined rails as longitudinal steel members which can be consider as beams, and have the duty of transferring the concentrated train wheel load to the spaced sleeper supports without having excessive deflection. Hay (1982) believes rails need the ability to:

- Deliver a flat running surface for train wheels
- Allow the flanged wheels to move vertically, horizontally and longitudinally, depending on the direction of travel
- Transfer the loads to sleepers while minimising the deflection

- Resist the fatigue cracking caused by repeated train dynamic loading
- Resist tension failure and buckling from tensile and compression forces caused by change in rail temperature

2.1.1.2 Fastening system

The fastening system is the connection between the rail and sleepers. They are utilised in order to prevent rails from any vertical, horizontal, longitudinal movement and overturning of rail which is mainly caused by the exerted loads of crossing trains. They also prevent the temperature changes in the rails while trains are passing. According to Selig and Waters (1994), fastening systems can help track structure to:

- Confine rails in different directions (transverse, vertical and longitudinal)
- Provide an inclined surface for better connection between wheels, rails and sleepers
- Distribute the load from passing train over sleepers
- Deliver resiliency under overturning of rail from wheel forces caused by passing train

2.1.1.3 Sleepers

Sleepers are mainly built from timber or pre-stressed reinforcement concrete and play an essential role in receiving and transferring the loads from rail to ballast within the acceptable pressure level according to Kutz (2004). They are also utilised to hold the fastening system in order to maintain track geometry. Restraining the rail movement–in lateral, longitudinal and vertical dimensions–by stabilising the superstructure on the ballast is another important function of the sleepers.

2.1.2 Substructure

As previously demonstrated in Figure 2.1, the second part of track structure is called substructure which is embedded into the ground. It consists of the following components:

- Ballast

- Subballast
- Subgrade

2.1.2.1 Ballast

The ballast is the first layer located directly under the sleepers. Traditionally, any rocks or hard stones which are angular, crushed and uniformly graded are suitable for the ballast layer. Additionally, it was crucial that chosen materials are free of dust and dirt and, also, not prone to any cementation action. Today, availability and economic considerations are important factors for selecting suitable ballast material (Kutz, 2004).

According to Selig and Waters (1994), the ballast can be classified into following sections:

1. Crib which is the material located between the sleepers
2. Shoulder which is the material located on both sides of the track and sleepers
3. Top ballast which is the upper layer of the ballast and disturbed by tamping
4. Bottom ballast which is the lower layer of the ballast and not disturbed by the tamping and commonly is more fouled

Selig and Waters (1994), stated that the ballast plays a major role in:

- Resisting longitudinal, lateral and vertical forces exerted on the sleepers, in order to keep the rail track in acceptable position
- Providing some of the resiliency and energy absorptions for the track
- Providing voids for keeping the fouling material in the ballast
- Accelerating the drainage caused by precipitation
- Reducing the risk of frost
- Eliminating the risk of vegetation
- Providing adequate electrical resistance between rails

2.1.2.2 Subballast

The subballast is the layer located between ballast and subgrade. The most common material used in subballast is processed gravely sand mixture, broadly-graded crushed natural aggregates, and slags. These materials must have two main factors to be suitable for use as subballast. First, they must be durable particles and, second, they must satisfy the filter/separation requirements for ballast and subgrade in order to prevent any upward migration of fine materials from subgrade to ballast. (Selig & Waters, 1994)

Some of subballast performances are:

- Reducing the amount of exerted stress on the top of subgrade to a tolerable and acceptable level
- Reducing the risk of subgrade frost action
- Preventing the upward migration of the fine material from the subgrade to the ballast
- Shedding water, i.e., intercepting the water coming from the ballast and directing it away from subgrade towards ditches
- Permitting lateral drainage of groundwater that might arise from the subgrade in some cases

2.1.2.3 Subgrade

The subgrade is located directly beneath the aforementioned layers and is considered as the foundation for the upper layers and track structure; i.e. subgrade supports all the imposed load both static and dynamic from the pver layers and the trains. The main function of the subgrade is to provide a stable foundation for ballast and subballast (Kutz, 2004).

According to Selig and Waters (1994), the subgrade can be categorised into two classifications:

1. Natural ground (formation)

2. Placed soil (fill)

Using any other material except the existing soil can be extravagant. Existing soil and ground can preferably be used for the construction of the subgrade. However, there are available techniques to improve soil bearing capacities and other parameters in-situ, which are not related to this study. (Selig & Waters, 1994)

Kutz (2004), believed that subgrade has a vital use in:

- Delivering a safe and stable platform for construction of track
- Providing limitation against consolidation and progressive settlement caused by repeated dynamic loading
- Avoiding slope failure
- Providing resiliency against shrinkage by change in water content level caused by precipitation and/or seepage flow from adjacent area

The track drainage has a considerable effect on the durability of the track structure and the railway system, consisting of rails and the entire existing sub layers mentioned in Section 2.1, according to Rushton and Ghataora (2009). The response of track to dynamic loads of the train also depend on the efficiency of the drainage system. This report investigates the sources of water in the soil and present the existing methods and techniques to eliminate the damaging impacts of water within the track structure in Sections2.2 and 2.3 respectively.

2.2 Effect of moisture on section behaviour

The rail track components were introduced in Section 2.1. This part investigates the different sources of water in the soil under the track, and study the effects of water on the section

behaviour. According to FHWA Highway Subdrainage Design Manual (1980), water exists in the subsurface soil in following conditions:

1. Water molecules bound to the surface of soil particles
2. Capillary moisture
3. Water vapour existing above the zone of saturation
4. Free or gravitational water

The most important type of water existing in the soil is the free water, which can move through soil voids under gravitational force and/or hydraulic induced pressure gradients.

Moreover, as depicted in Figure 2.3, water can enter the subgrade through:

1. Precipitation
2. Groundwater flow
3. Surface flow from adjacent area

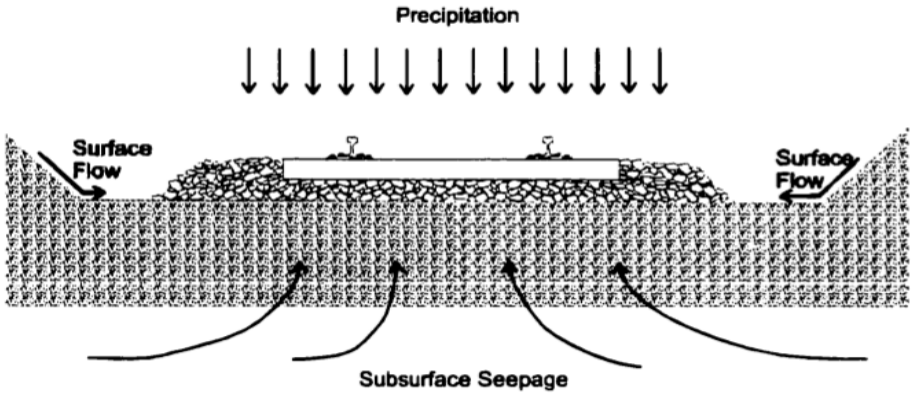


Figure 2.3 Different sources water entering the track (Selig & Waters, 1994)

According to Kutz (2004), in an efficient drainage system, all the water from the mentioned sources can be collected and transferred away from the section towards the preferred area.

Due to current environmental challenges such as climate change and also the amount of dynamic loading exerted on the track structures by passing trains, each of the mentioned track components needs to perform their functions in order to have a section with structural stability and durability. The track drainage system plays an essential role in supporting the track structure because the entered or existing water can affect the stability and stiffness of the subsoil. (Rushton & Ghataora, 2009)

The main role of subballast is to spread the concentrated stress exerted on the ballast layer, over a larger area. Another purpose of subballast layer is to prevent the fines from migrating from subgrade to overlying ballast layer. Therefore, the strength and stiffness of subballast layer, as well as filtration ability, should be considered in the designing stage. Performance of rails track under dynamic loading strongly depends on subgrade soil. Subgrade soil can be granular, cohesion-less and even cohesive (Hunt, 1993).

According to Buchanan (2007), the resilient modulus can be defined as “ratio of applied deviator stress to recoverable or resilient stress” for material subjected to cyclic loading (if the specimen is subjected to cyclic loading). The concept of the resilient behaviour of pavements particularly regarding the fatigue cracking of asphalt surfaces, was investigated

first by Hveem and Carmany (1948) and Hveem (1995). Figure 2.4 demonstrates strain in granular materials during one cycle of the applied load.

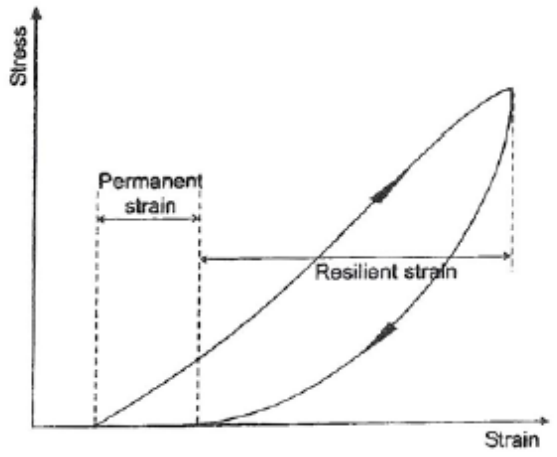


Figure 2.4 Strain in granular material during one cycle of load application (Lekarp et al, 2000a)

According to Lim (2004), the resilient modulus commonly increases steadily with some applied cyclic load. The resilient modulus ultimately reaches to a generally constant value after a certain number of repeated cycles as presented in Figure 2.5.

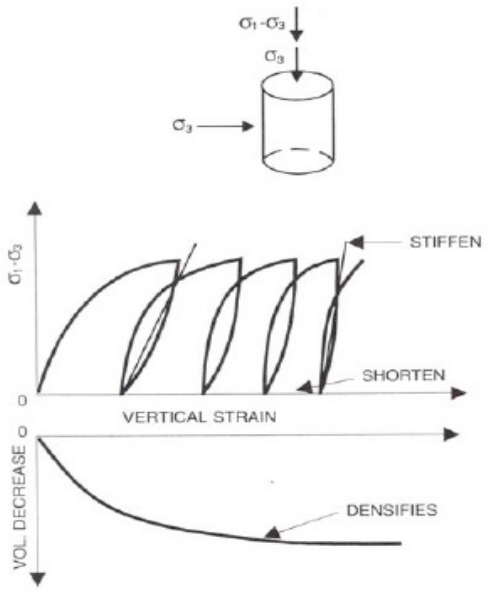


Figure 2.5 Behaviour of granular material under cyclic triaxial test (Selig & Water, 1994)

A study by Lekarp et al., (2000a) concluded that when the water content of the sample is low, the presence of water has a negligible effect on resilient modulus of the sample. However, on the other hand, this study highlighted a considerable reduction in the resilient modulus when the water content increases, especially as the sample becomes progressively saturated. Lim (2004) believed that the effects of stress on the resilient modulus can be calculated using K - θ method which is presented first by Hicks and Monismith (1971). As demonstrated in Equation 2.1 the effects of stress on the resilient modulus can be described as a function of the sum of stresses or bulk stress in the loaded state. (Hicks & Monismith, 1971)

$$M_r = K_1 \theta^{K_2} \quad (2.1)$$

Where:

M_r = Resilient modulus (KPa)

θ = Bulk stress in loaded state (KPa)

K_1 and K_2 = Constants

Studies by Alva-Hurtado (1980) outlined the results of repeated load triaxial test on a crushed granite ballast sample as depicted in Figure 2.6.

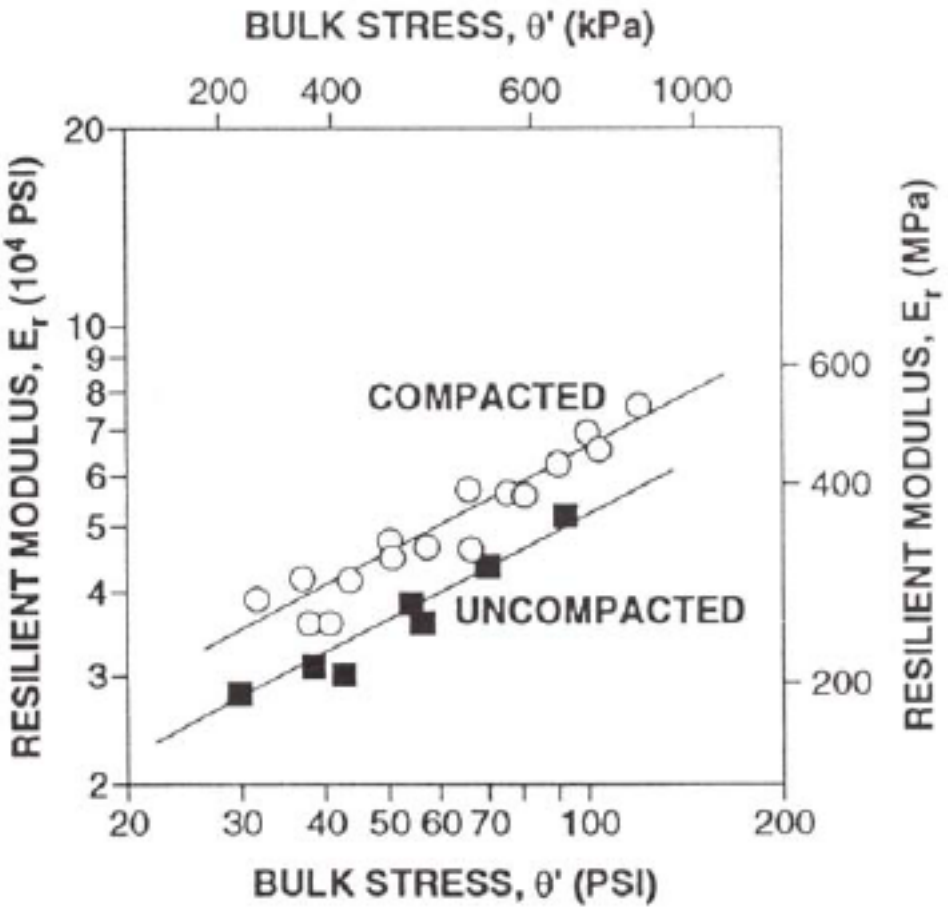


Figure 2.6 Bulk stress with respect to resilient modulus (Alva-Hurtado, 1980)

Lim (2004) stated that the main limitation of K - θ model is that Poisson ratio is considered to be constant. Therefore, several modifications had been made in order to predict the resilient behaviour of granular material considering disintegrating stress and strain into volumetric and shear components. (Brown et al., 1975)

Poisson's ratio only tends to a constant value as the volume of material stops changing. Specimen behaviour may change due to many factors, including moisture content., Hornych

et al. (1998) showed that increase in moisture content of a subgrade resulted in decrease in resilient modulus and increase in plastic strain; see Figure 2.7.

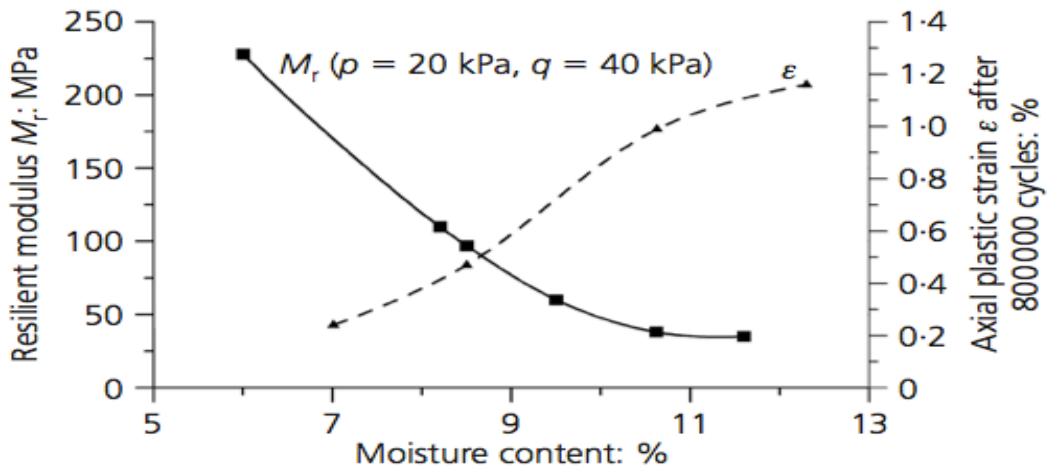


Figure 2.7 Effects of increased moisture content on resilient modulus and plastic strain of

Thus, in order to ensure that the railway track performs in a predictable and consistent manner, it is essential to either control the movement of water in the track layer or to make the layers of materials supporting the track less sensitive to changes in moisture perhaps by stabilising them. Traditionally, water levels in and around the track are controlled by the use of suitable drainage systems. These are designed to cater for storm events. For example, in Britain, drainage pipes by the cess are designed so that they will run full for a two-year rainfall event. Thus, the ballast layer is used as a temporary reservoir. The track is still considered to be operational when water is at the base of the sleeper. Train operations are likely to be affected when water appears at the surface of the ballast." (Rushton & Ghataora, 2009).

It is also important to note that longer water presence reduces the lifetime of the system significantly as shown previously in Figure 1.1. Cedergren (1974) highlighted that the percentage of the time that the section is saturated could considerably decrease the useful life of the structure. His investigation concludes that if a section is saturated for the average of 50% of the time, the useful structure life can decrease up to 80% of its designed lifetime.

A study by Padhy (2013) showed that the performance of the subgrade depends on three key subgrade characteristics as:

1. Load bearing capacity
2. Moisture content
3. Shrinkage and swelling

Padhy (2013) suggested that subgrade soil must be strong enough to be able to sustain and support the transmitted load of the overlying layers and the train . The bearing capacity of this layer can be affected by the type of soil used, the degree of compaction, and moisture content. He believed subgrade characteristics such as bearing capacity, swelling and shrinkage can be affected by this layer moisture content. The increased moisture content can be caused by poor drainage as remaining water in the section or elevated water table in the adjacent area. Finally, Padhy (2013) noted that subgrade soil with high fine-content could be vulnerable to frost heave in cold climates that can result in the creation of cracks and deformation on upper head subballast and pavements.

A study by Lim (2004) noted the resilient modulus of a sample can be affected by different factors such as stress level, particle size distribution and maximum grain size, fine-content, moisture content, stress history and number of load applications.

Zhang (2004) investigated the effects of high groundwater level on subgrade performance. The sources of entering the water to the subgrade are introduced comprehensively, and the effects of moisture content on subgrade resilient modulus were examined. Zhang (2004) noted that the following parameters affecting the measured resilient modulus of a sample:

1. Soil type and properties
2. Dry density
3. Water content
4. Strain amplitude
5. Sizing effect
6. Testing procedure

Permanent or plastic deformation of a sample was demonstrated previously in Figure 2.4. Lim (2004) stated that the particle breakage and rearrangements could be the cause of the mentioned irrecoverable deformation. Knutson (1976) noted that the effects of stress level on plastic deformation of a sample are substantial. Knutson (1976) has shown that accumulated permanent deformation of a sample under specific numbers of repeated loads is directly dependent on the stress ratio which is known as the ratio of deviatoric stress "q" over confining stress "σ_3". Figure 2.8 indicates that increasing the ratio of q/σ_3 causes an increase in the accumulated irrecoverable deformation of a limestone ballast sample after a certain quantity of repeated loading. From Figure 2.8, it can be concluded that having a constant number of stress ratio (4) does not result in the same permanent strain behaviour. Stress ratio of 4 can be obtained from q/σ_3 of (60/15) and (20/4). Presented results in Figure 2.8 show the effect of deviatoric stress on the plastic strain. This is in accordance with the key finding of Lekarp et al., (2000b).

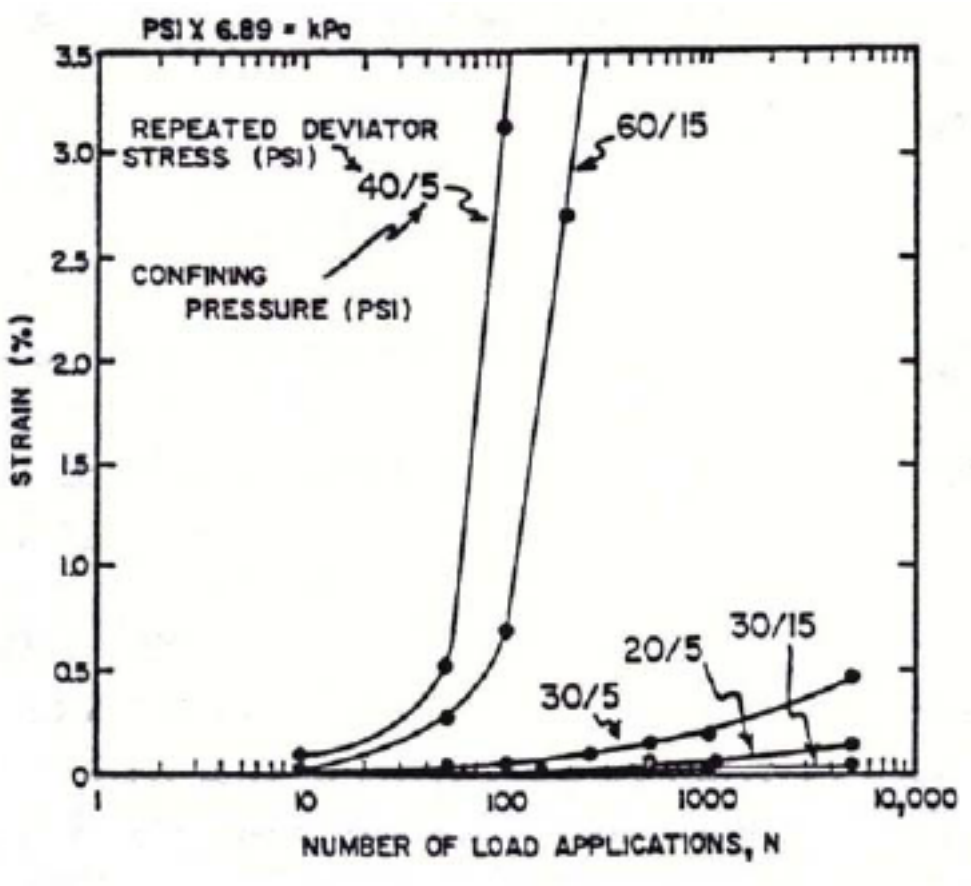


Figure 2.8 Effects of q/σ_3 on plastic deformation of limestone ballast sample (Knutson, 1976)

Conducted tests by Selig and Waters (1994) indicate that the final amount of plastic strain is independent of arrangement, or sequence of loading. As depicted in Figure 2.9, the accumulated irrecoverable strain of 4 different samples was measured approximately equal after subjecting them with a different order of repeated loading. Each cycle consisted of 1000 load applications.

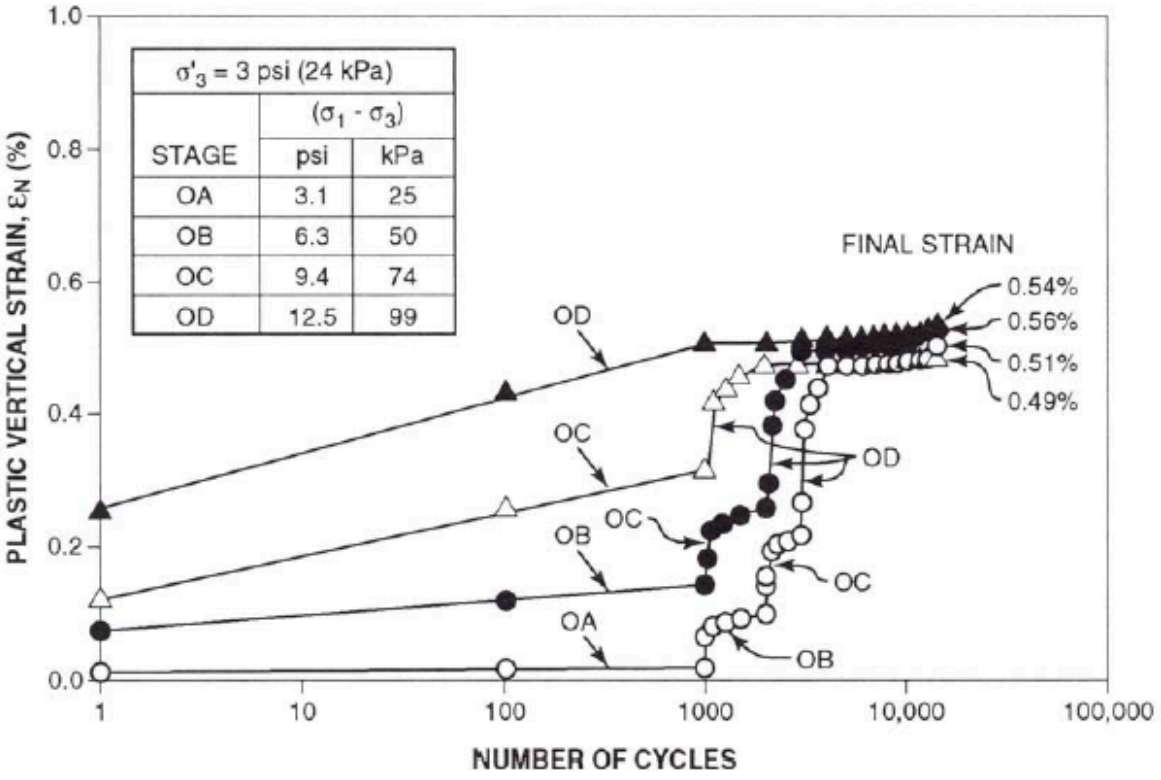


Figure 2.9 Effects of loading order on plastic deformation (Selig & Waters, 1994)

2.3 Track drainage

The track components were introduced in Section 2.1. The destructive effects of the presence of free water on the section behaviour were reported in Section 2.2. The necessity of adequate drainage system underneath the roads and airfields was emphasised by Cedergren (1967). Selig and Waters (1994) and Hay (1982) emphasised on the requirement of a suitable drainage system for the super and substructure in various chapters of their texts. In this section, different types of existing drainage systems and methods for removing water from the track are described..

According to RailCorp Engineering Manual (2009), the method of choosing a drainage system depends on the site conditions including site restraints, water sources, track structures and maintenance requirements. Regarding the variety of trains such as freight or high-speed passenger trains, a specific standard must be considered and also sufficient drainage system

must be provided. An upgraded track and the maintenance work on existing drainage system must be obtained periodically. Typical types of drainage systems are as:

1. Surface drainage
2. Subsurface drainage

According to Heyns (2000), due to the ease of inspection and maintenance, surface drainage has priority over subsurface drainage. The subsurface drainage system is recommended to install when usage of surface drainage systems is restricted.

For quantifying the amount of present surface water, Heyns (2000) stated that the volume of surface water which needs to be drained, can be estimated by using "Rational method". After a series of research on the total precipitation of the area, the amount of critical rainfall event would be considered as the design value for the drainage. This estimated design value is known as peak flow rate. The significant factors affecting the calculation of peak flow rate are:

- Site survey
- Site measurements
- Properly scaled topographic map

It is necessary to consider the volume of water flowing into the railway tracks from adjacent areas to best estimate the design peak value (Smart & Herbertson, 1992).

2.3.1 Surface drainage system

The main purpose of designing the surface drainage is removing the surface water in the right-of-way. According to Heyns (2000), the major sources of this water are:

- Seepage out of the ballast and sub ballast

- Runoff from the cut slope
- Surface runoff from adjacent areas

Figure 2.10 demonstrates different sources of surface water entering the track structure.

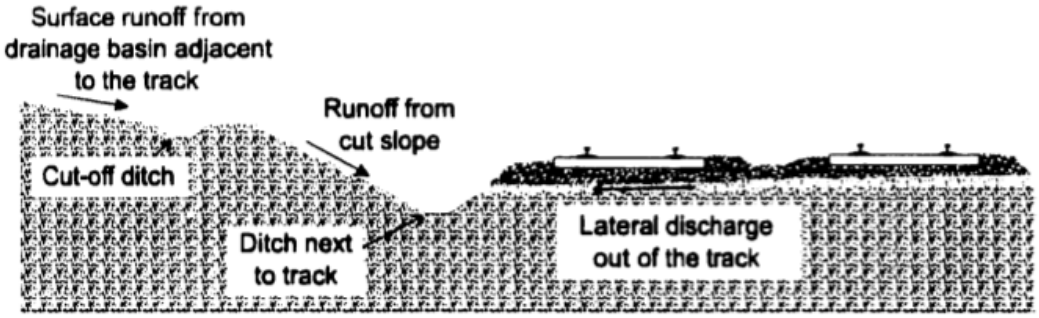


Figure 2.10 Sources of surface water (Heyns, 2000)

According to Heyns (2000), to design both kinds of ditches demonstrated in Figure 2.10, it is necessary to analyse the quantity of existing water at the site by applying rational, or soil, conservation method to determine the peak flow rate. Removing the surface runoff before entering the track structure can be named as a significant role of the surface drainage system. Collecting the percolated water out of track is also considered to be done by the surface drainage system. Figure 2.11 indicates the different types of surface drainage system.

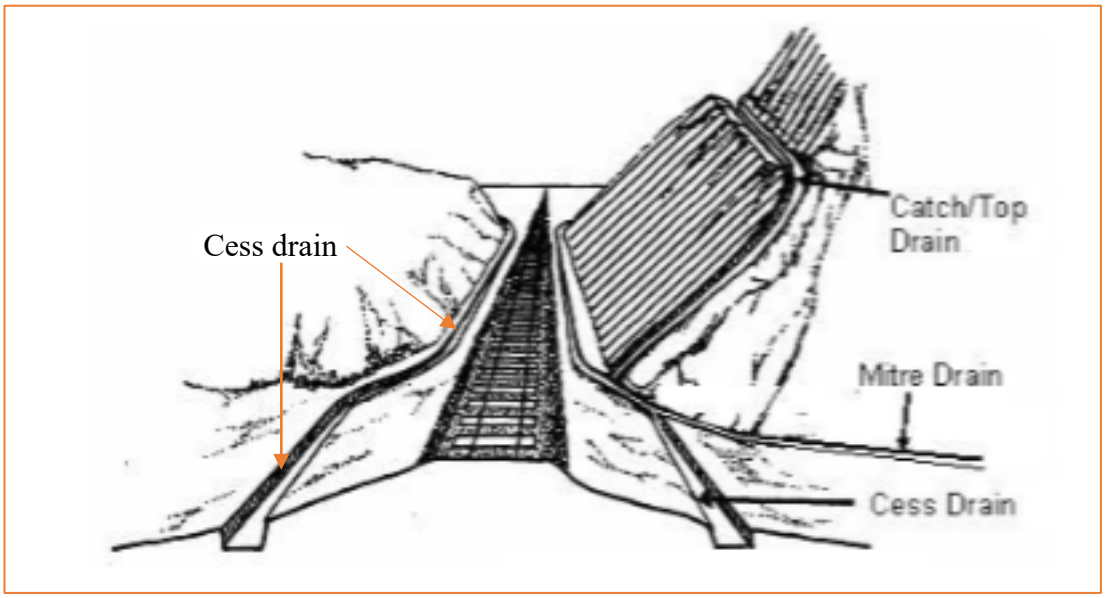


Figure 2.11 Different types of surface drains (RailCorp Engineering Manual, 2009)

According to RailCorp Engineering manual (2009), basic shoulder grading on either side of track structure especially in flat areas considered to be a form of surface drainage, because it helps the flow of water out of track structure. It also speeds up the process of flowing water toward any other existing surface and subsurface drainage system due to formation of an elevation head difference in water level. As demonstrated in Figure 2.11, RailCorp Engineering Manual (2009) introduces major types of surface drainage as:

- Cess drains
- Catch drains
- Mitre drains

2.3.1.1 Cess drains

Cess drains are considered to be the first and the most common type of surface drainage. This sort of drainage is constructed at formation level of track on either one or both sides of track structure depending on the width, geometry of tracks and the amount of entered water. This type of drainage helps to remove the flow away from the ballast and percolated water out of

capping layer towards ditches. Cess drains are designed to reduce the water level in the subgrade to a level where it (water) does not affect its bearing capacity and stiffness. Normally, this type of drainage system can be found next to cutting, where the existing water cannot drain freely. Figure 2.12 demonstrates the typical cess drain system. This type of drainage is vulnerable to a collection of sediments due to the fact that they are normally constructed on flat areas. But ease of cleaning is major advantages of this type of surface drainage. (RailCorp Engineering Manual, 2009)

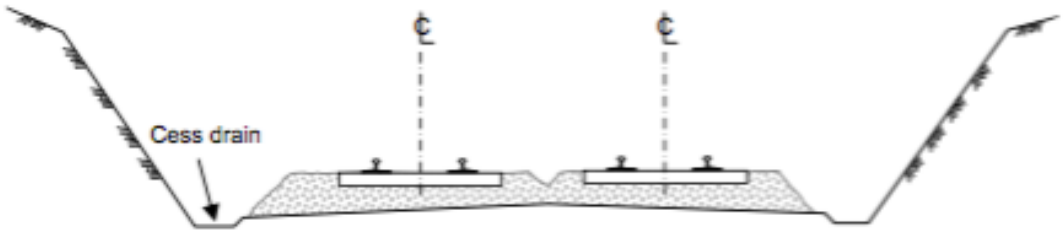


Figure 2.12 Typical cess drain location (RailCorp Engineering Manual, 2009)

2.3.1.2 Catch drains

Catch drains, also known as top drains, have the aim of intercepting the runoff flow before it can enter the track structure from adjacent areas. This can reduce the possibility of any damage to the track structure caused by existing runoff water especially in embankments and cuttings. This type of drain is normally constructed either on down sides, or up sides, of the cuttings with the aim of intercepting the water before it reaches the track structure as shown in Figure 2.13. Catch drains need to be constructed alongside tracks that cut across a slight downhill grade. Refusing to do so results in an excessive erosion which leads to sedimentation of existing cess drains. (RailCorp Engineering Manual, 2009)

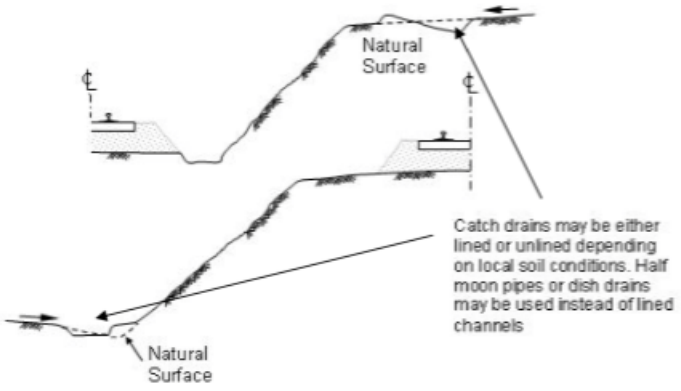


Figure 2.13 Typical catch drain location (RailCorp Engineering Manual, 2009)

2.3.1.3 Mitre drains

This type of surface drainage is generally connected to mitre and cess drains in order to move water away from the track structure. Mitre drains are essential in certain locations and/or intervals with the aim of removing water before any decrease in water velocity and overload. This prevents deposition of sediments carried by water. Figure 2.14 demonstrates a typical mitre drain system.

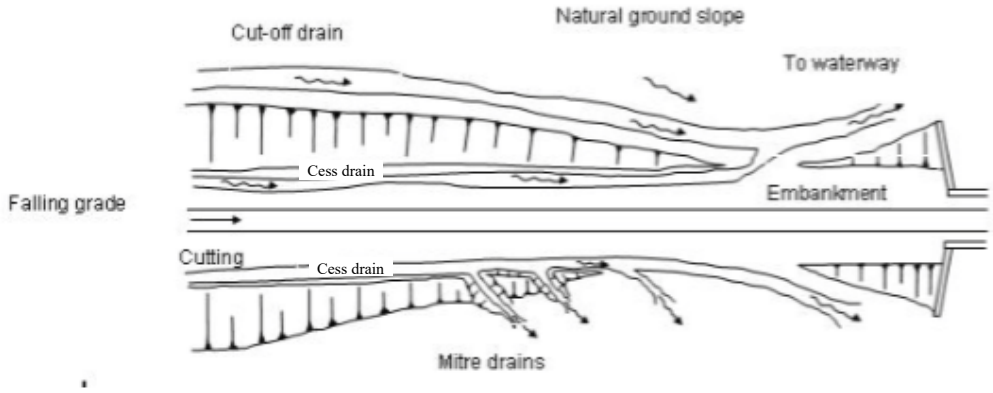


Figure 2.14 Typical mitre drain formation (RailCorp Engineering Manual, 2009)

2.3.2 Subsurface drainage

According to RailCorp Engineering Manual (2009), subsurface drainage is required to maintain the stability of track formation and existing earth slopes where the water table is at, or near, the surface level. The outcomes and damaging impacts of existing water at or near

the surface level discussed previously in Section 2.2. Apart from draining the water away from the track structure, this type of drainage plays an essential role in:

- Controlling the groundwater
- Draining the slopes

Depending on the site location and rainfall characteristics of the area, subsurface drainage can be operated under, across and between tracks. They also can be constructed along the cess (RailCorp Engineering Manual, 2009).

Subsurface drainage is designed to collect the surface runoff and move it towards any other designed drainage system away from the track structure. However, in some cases, subsurface drainage plays a significant role in controlling groundwater and seepage. In that case, a detailed geotechnical and hydrological investigation is necessary in order to estimate the amount of required outlet for designing of required pipes and channels.

RailCorp Engineering Manual (2009), believes this type of drainage is designed when the capacity of surface drainage is not enough. But in some cases, due to location limitations and existing restrictions, adopting subsurface drainage can be necessary. These locations can be outlined as:

- Multiple tracks
- Bridges
- Platforms
- Junctions
- Cuttings

According to RailCorp Engineering Manual (2009), some of the functions of the subsurface drainage system can be specified as:

1. Collecting the entered water before it reaches the formation, as shown in Figure 2.15

2. Lowering the water table as demonstrated in Figure 2.16

3. Draining the local seepages like spring inflow as shown in Figure 2.17

4. Cut-off and/or interception of seepage along impermeable boundary as depicted in Figure 2.18

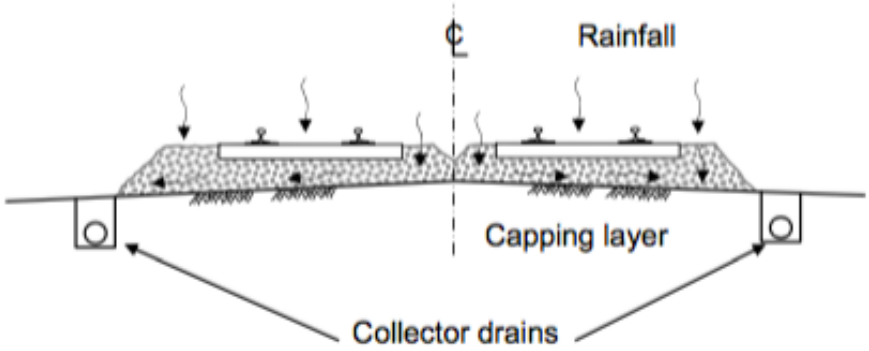


Figure 2.15 Collecting entered water by precipitation (RailCorp Engineering Manual, 2009)

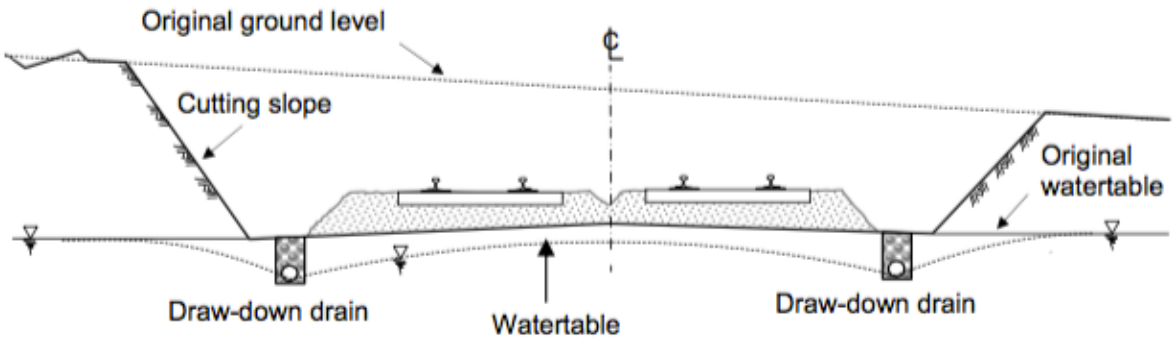


Figure 2.16 Water table draw-down (RailCorp Engineering Manual, 2009)

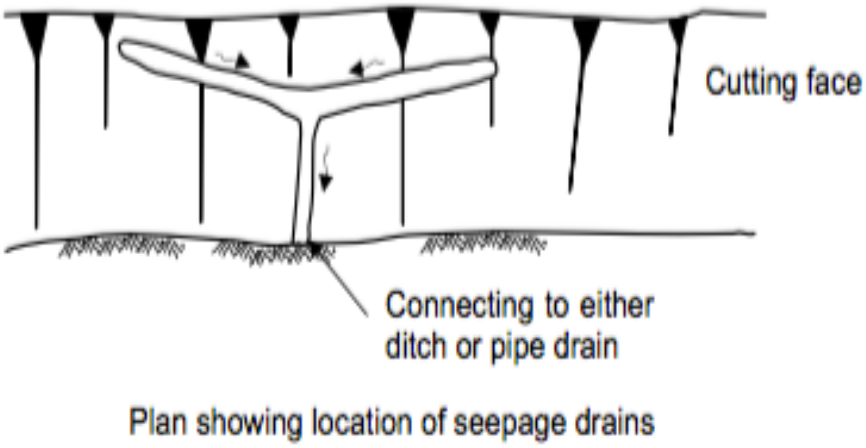


Figure 2.17 Cutting off and interception of seepage water (RailCorp Engineering Manual, 2009)

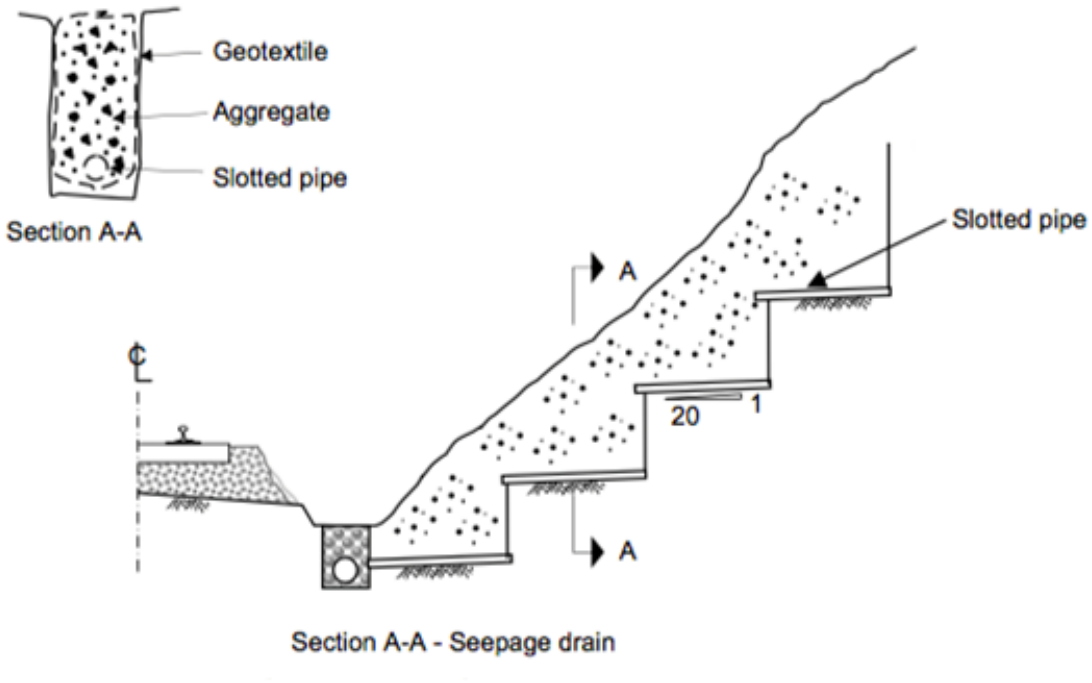


Figure 2.18 Drainage for local seepage (RailCorp Engineering Manual, 2009)

Based on the geometry and location, subsurface drains are classified as:

- Transverse drains
- Trench drains
- Drainage blankets

2.3.2.1 Transverse drains

Transverse, or cross drains, are located perpendicular to the centre-point of the track and run laterally through the tracks. These types of drains are more efficient than longitudinal where the water flows parallel to the rail. Due to their design procedure and their inclined slope, gravity enables them to remove water. This type of subsurface drainage is considered being self-cleaning which decreases the cost of maintenance significantly (RailCorp Engineering Manual, 2009). Transverse drains are commonly joined other surface or subsurface drainage systems or the nearest natural stream directly according to FHWA Highway Surrounding Design Manual (1980). A typical transverse drain is presented in Figure 2.19.

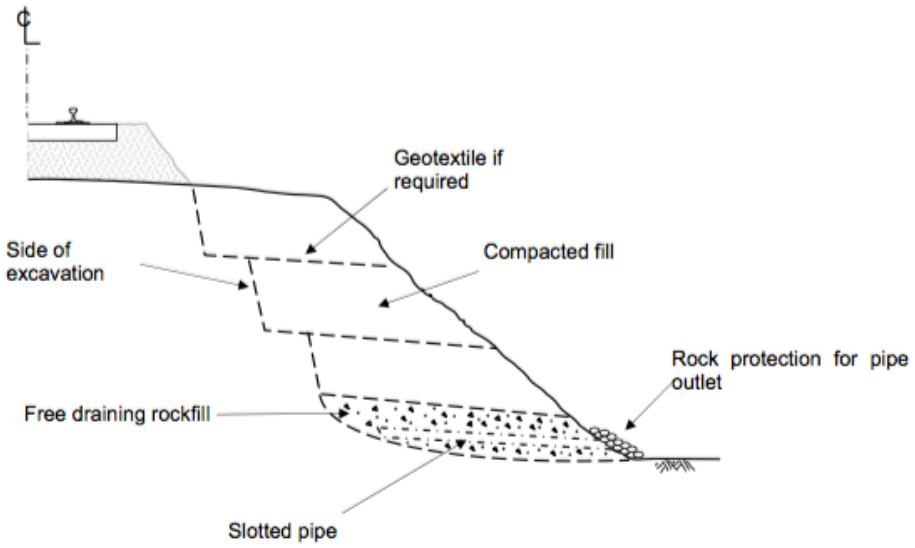


Figure 2.19 Typical transverse drain location (RailCorp Engineering Manual, 2009)

Heyns (2000), suggested that this type of drainage system can be helpful for removing any ballast pocket as shown in Figure 2.20.

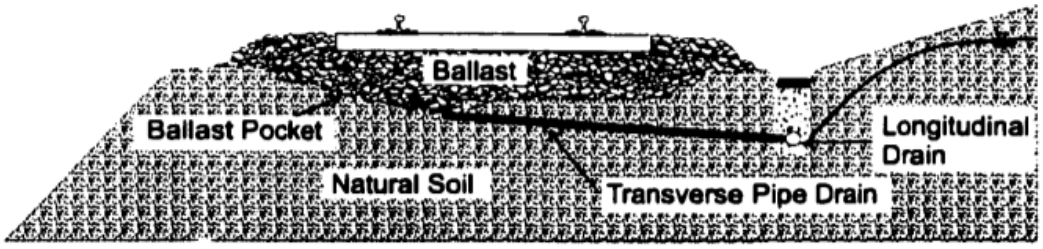


Figure 2.20 Draining ballast pocket using transverse drain (Heyns, 2000)

2.3.2.2 Trench drain

According to Straub (1995), trench drains are formed of two major parts:

1. A trench filled with clean granular material
2. A perforated or a porous pipe at the base of the trench in order to transfer water (collected from the surrounding soil) longitudinally to an outfall or a drian to concey the water away from the track. Typical section is shown in Figure 2.18

One of the requirements for an effective trench drain is preventing the inflow of fine soil particles into the granular trench backfill and the pile, which may cause reduction in capacity to drain and/or blockage. The cross-section of a typical trench and typical longitudinal drain formation are presented in Figures 2.21 and 2.22 respectively.

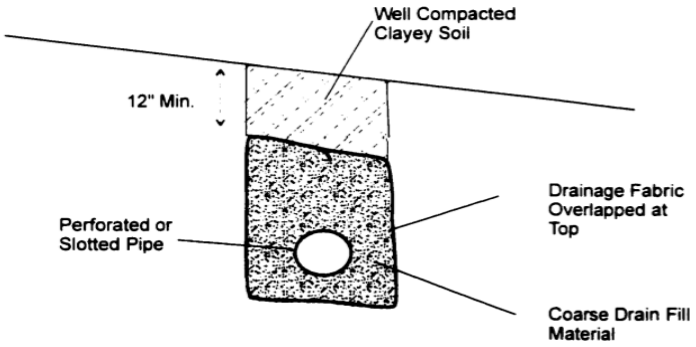


Figure 2.21 Typical trench cross-section (RailCorp Engineering Manual, 2009)

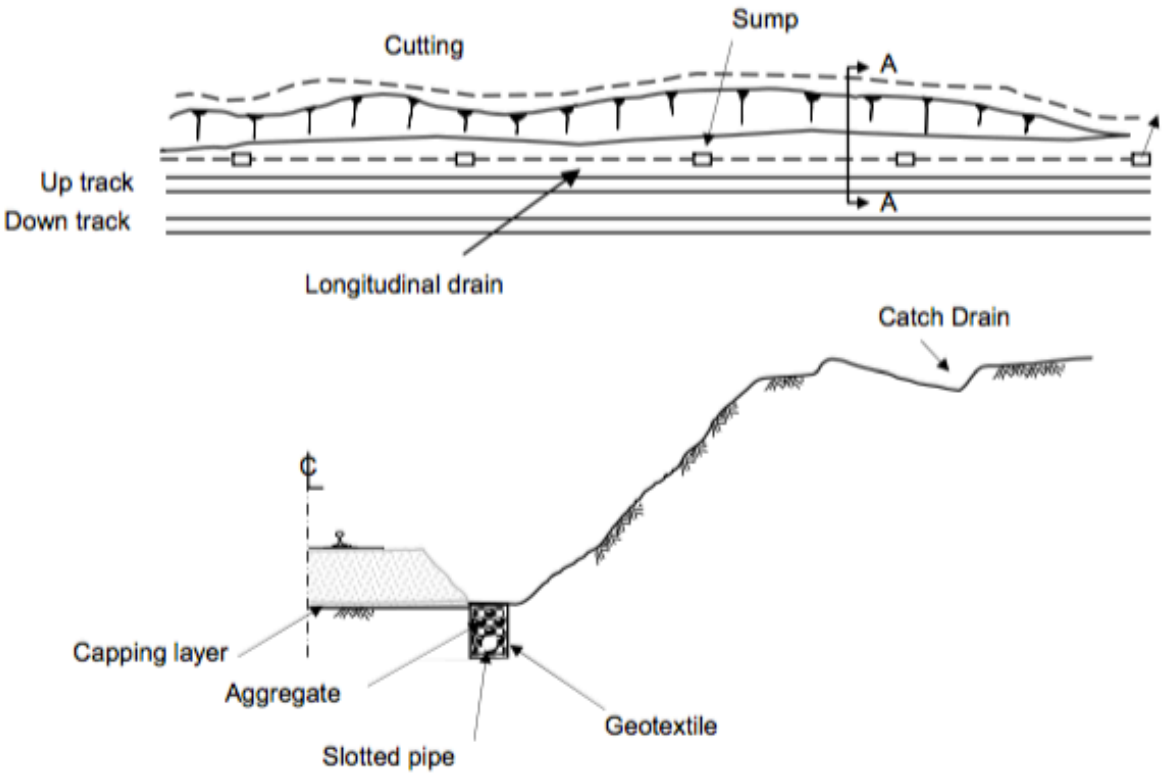


Figure 2.22 Typical longitudinal drain formation (RailCorp Engineering Manual, 2009)

Cedergren (1987) believed following factors could affect the selection of pipes during the design of subsurface drainage:

1. Site's soil condition
2. Loading
3. Durability of pipes
4. Environmental consideration
5. Cost
6. And most importantly experience

As recommended by Cedergren (1987), the perforated pipes should be placed on the compacted bedding material in order to decrease the potential risk of depositing and to decrease the level of water in the pipe. All drains must be connected to an outflow, which can be an automatic drainage gate or an open pipe, depending on location. In all cases water must be allowed flow out freely with the risk of blockages or backward flow.

2.3.2.3 Drainage blankets

According to ecy.wa.gov (2017), this type of subsurface drainage system can be defined as free draining granulated material that can be placed on the face of a slope with the aim of stabilising surface soils, and reducing the potential of erosion.

This type of drainage system is commonly used in dams with moderate elevation over downstream of the foundation area. Embankments and earth dams are more likely to be more permeable in the horizontal direction rather than vertical direction. Hence, the flow of water tends to be horizontal over reasonably impermeable layer. Therefore, the downstream is vulnerable to slipping and piping. Drainage blankets can be helpful by installing granular free-draining material on the downstream or vertical drains that can connect horizontal blankets and carry the water away from the slope (Community.dur.ac.uk, 2017). Figure 2.23 demonstrates the typical drainage blanket.

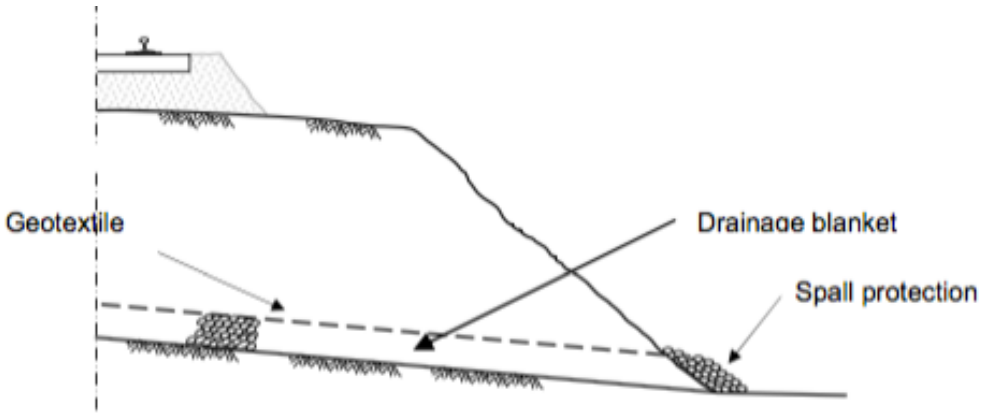


Figure 2.23 Typical drainage blanket location (RailCorp Engineering Manual, 2009)

2.3.3 Other classification of subsurface drainage

According to RailCorp Engineering manual (2009), subsurface drainage systems can also be classified based on the materials used for drains as:

- Aggregate drains
- Pipe drains
- Geotextile drains
- Combination of the aforementioned types

In this section, different classification of subsurface drainage systems are presented.

2.3.3.1 Aggregate drains

According to RailCorp Engineering Manual (2009), this type of drains is formed from granular material. Using fine material for this type of drains prevents the collected water from moving easily through the aggregate (free-draining aggregate). However, on the other hand, using coarser particles may allow fine materials to accumulate in them. This causes a reduction in aggregate permeability and inefficiency of the drainage system. As shown in Figure 2.24, aggregates need to be wrapped in geotextile filter.

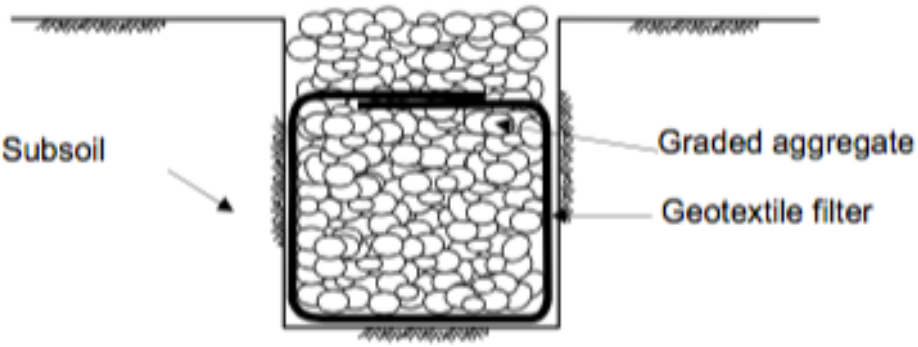


Figure 2.24 Cross-section of typical aggregate drain (RailCorp Engineering Manual, 2009)

2.3.3.2 Pipe drains

This type of drain is formed of slotted or perforated pipes within the aggregate materials, which can be installed by backfilling and trenching. In some cases, using geotextile around the pipes or permeable backfill is necessary in order to prevent pipe blockage. Figures 2.25 to 2.27 demonstrate different types of pipe drains. (RailCorp Engineering Manual, 2009)

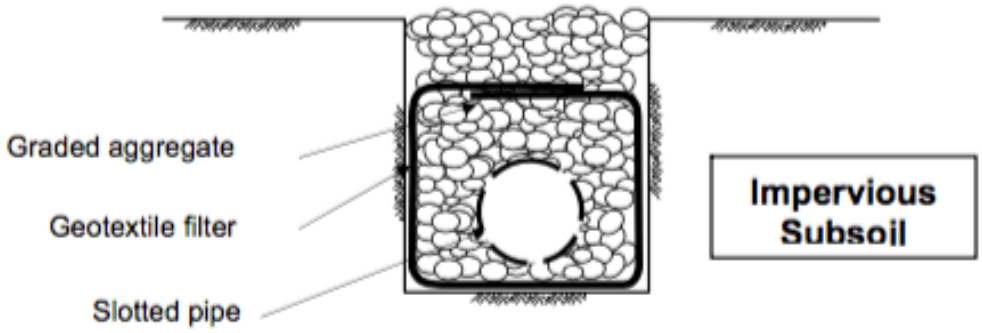


Figure 2.25 Cross-section of typical pipe drain used in impermeable soil (RailCorp Engineering Manual, 2009)

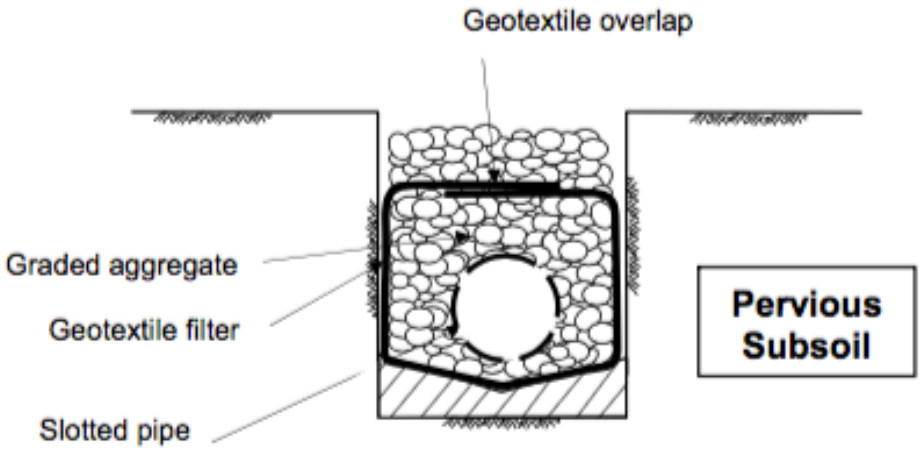


Figure 2.26 Cross-section of typical pipe drain used in permeable soil (RailCorp Engineering Manual, 2009)

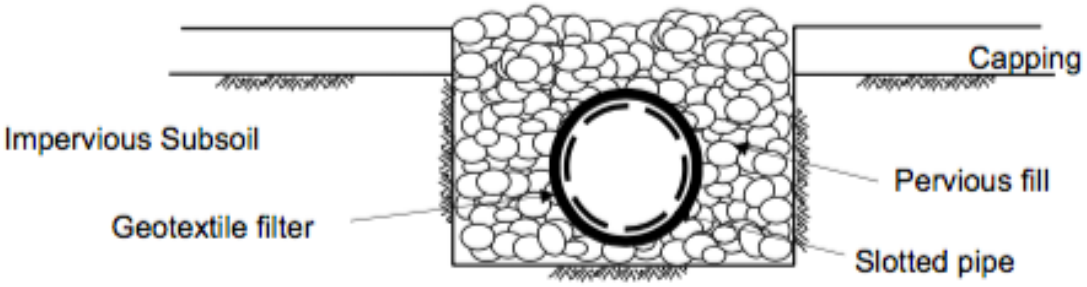


Figure 2.27 Cross-section of typical pipe drain using filter around the pipe (RailCorp Engineering Manual, 2009)

2.3.3.3 Geotextile drains

According to RailCorp Engineering Manual (2009), this type of drain needs to collect the existing subsurface water and move them towards the designed outlet. They can be vertical, horizontal and in some cases inclined. Drains need to act as a filter in order to prevent washing fine soil particles into them. Figure 2.28 shows geotextile drains used behind the retaining wall which can be used behind bridge abutments.

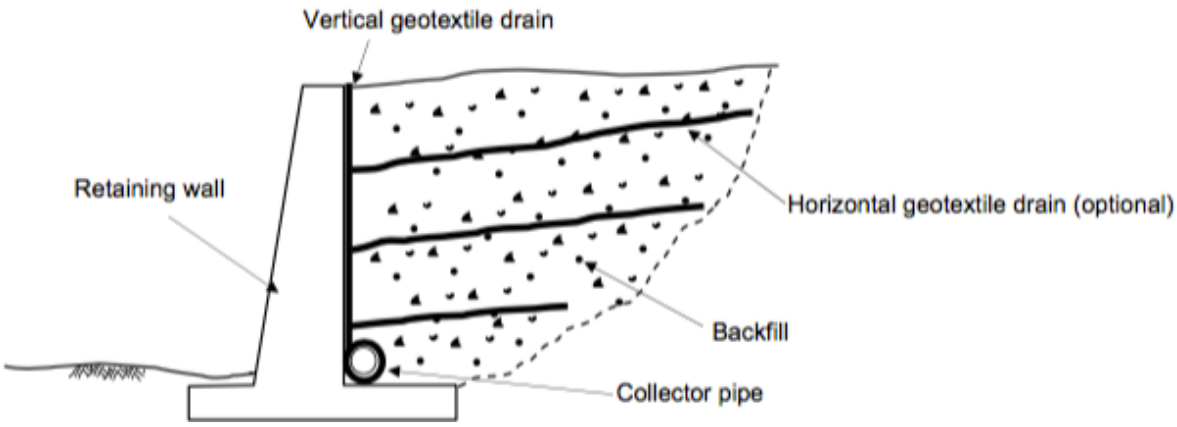


Figure 2.28 Horizontal and vertical geotextile drain installed behind a retaining wall (RailCorp Engineering Manual, 2009)

2.4 Track drainage design

In this section, the designing procedure of a drainage system for a track structure is described. The aim is to identify design criteria and the procedure in order to achieve a system which has the ability to drain water (from myriad sources) effectively. The effect of trapped water under the track was discussed in Section 2.2. Different types of drainage system are also introduced in Section 2.3. Having a design procedure helps the engineers to design an efficient drainage system which can reduce, or even eliminate, maintenance expense. In this section, design flowcharts presented by RailCorp Engineering Manual are presented. Every stage of the design procedure from initial concept of design to completion of the system is elaborated in details.

2.4.1 Design procedure

RailCorp Engineering Manual (2009) suggested a flowchart for designing a drainage system which presented in Figure 2.29.

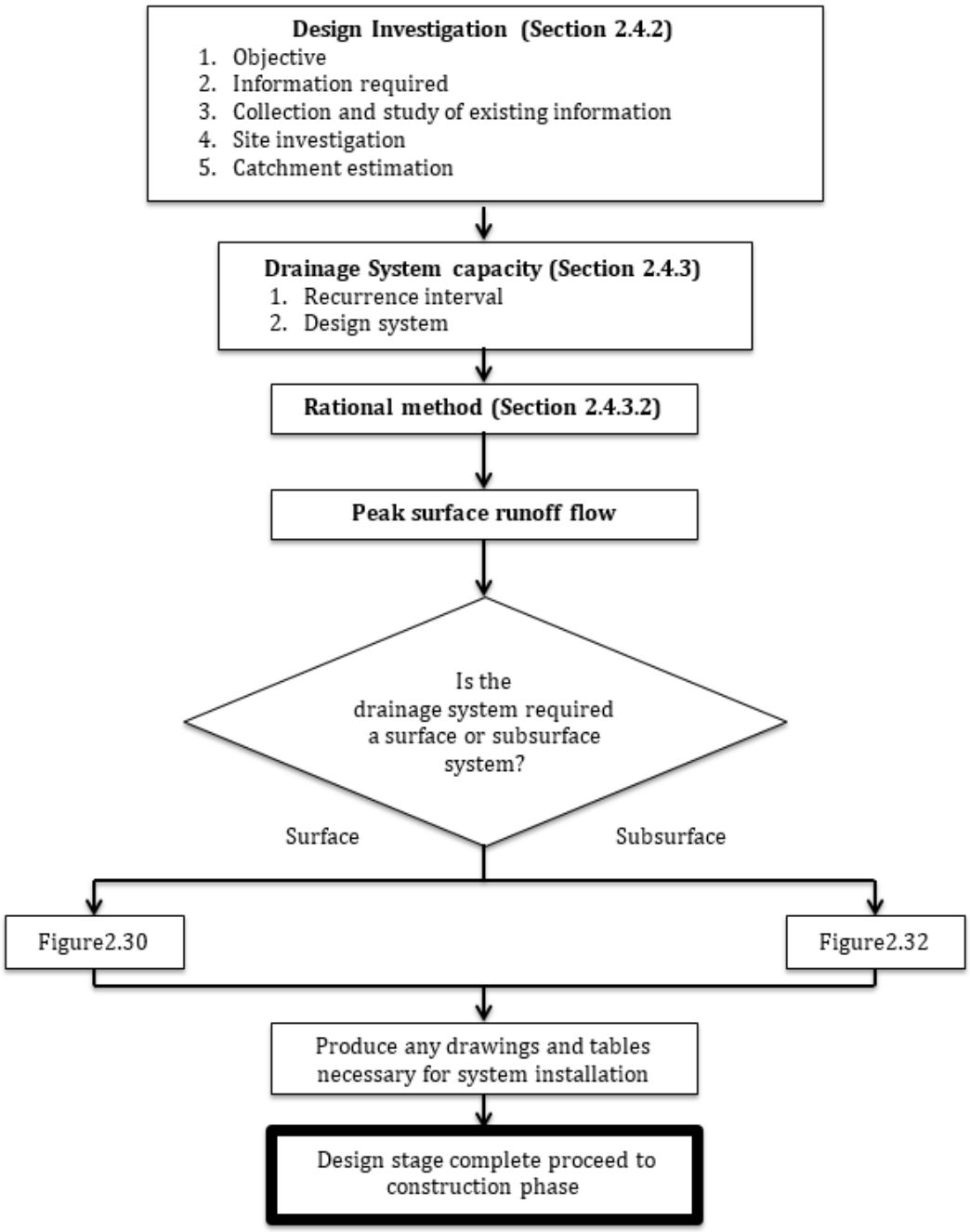


Figure 2.29 Decision on type of required drainage design flow-chart (After RailCorp Engineering Manual, 2009)

As shown in Figure 2.29, the first stage in designing a drainage system is design investigation.

2.4.2 Design investigation

In this section, the scope appropriate drainage system design is studied. The objective of design investigation is to provide information about the restriction imposed on the drainage system, and necessities for the system.

Australian Rain Track Corporation (2013), classifies the requirements of design investigation into the following section:

1. Drainage objectives

This stage includes identifying any restriction for draining water.

2. Gathering the required data

This includes site location, safety requirements, site access, possible outlet location, and any potential external limitations.

3. Collecting available geotechnical, hydrological and historical information

The existing data from the site location to nearby areas need to be studied before starting any fieldwork. Other types of information like aerial photographs, geological and topographic maps, hydrological and meteorological information and existing soil profile need to be gathered before starting any fieldwork.

4. Site inspection

Site inspection is the most critical stage in the design investigation procedure. At this stage, the maximum amount of the data related to site condition must be gathered. Essential information that needs to be collected can be named as:

- Any restriction facing site location and access

- Full detailed study on any existing drainage system in adjacent area, as well as historical study on previous maintenance and potential failure possibilities
- The location, type and condition of other drainage outlets in nearby areas
- Possibility of affecting the stability of adjacent structure by designing new drainage system
- Study the potential location for any in/outlet

5. Catchment area estimation

For designing of any drainage system, an estimation of the catchment area is required in order to calculate the runoff flow. This can be achieved using scaled geographical maps.

2.4.3 Drainage system capacity

According to ARTC (2013), after gathering the required information mentioned in Section 2.4.2, the drainage system capacity can be calculated using following steps:

1. Determining the track structure or drainage system life-time
2. Calculating the runoff flow

2.4.3.1 Structure life-time and recurrence interval

For calculating peak runoff flow, as presented in Section 2.4.3.2, it is necessary to obtain the structured life. For designing track structure in Australia, a minimum of 50-years is estimated for structure useful life. (Geotechnical track drainage manual, TMC421, 2009) A design lifetime of minimum 40-years to 100-years is commonly considered as a structure designed life by Network Rail for different track components in the UK depending on the type and weight of passing train (ARUP Inc., 2008).

Establishing the design's useful life is the first step to calculating peak runoff flow. This number is normally called as ARI (Average Recurrence Interval) or RP (Return Period). According to Bom.gov.au (2017), average recurrence interval is an approximation of probability a storm of a storm event in the same location. That means by adopting the return period of 50-years, the chance of occurrence of a particular storm event is once every 50-years.

2.4.3.2 Peak runoff flow

Heyns (2000) states that by establishing the ARI, peak runoff flow could be calculated using the rational method. According to Thompson (2006), using a maximum peak hydrograph instead of using a complete set of hydrograph analysis for designing hydraulic system including drainage for tracks in small catchments (watersheds), can be satisfactory. For estimating a final design discharge, a number of methods are available in which maximum runoff hydrograph is used. Selig and Water (1994) and Thompson (2006) claimed the "Rational method" is the simplest method of calculating the required design discharge in a small catchment. The Rational method first developed by Kuichlin (1889) for small drainage basins purposes. This is method is currently employed to design many drainage structures particularly when the catchment area is limited to 0.080 Km^2 (200 acres) (Viessman et al., 1989). Design discharge can be calculated by "Rational method" using Equation 2.2. (After Thompson, 2006)

$$Q = Cu.C.i.A \tag{2.2}$$

Where:

Q = required design discharge (s/Time)

C_u = units conversion coefficient

C = runoff coefficient (dimensionless)

i = design rainfall intensity (L/Time)

A = drainage catchment area (L^2)

2.4.3.2.1 Runoff coefficient (C)

According to Thompson (2006), the runoff coefficient (C), as presented in Equation 2.2, is a dimensionless ratio indicating the ratio of generated runoff resulting from a given precipitation. The depth of runoff is always proportional to the total depth of precipitation. This proportion is called coefficient of runoff and is presented in Equation 2.3. (After Thompson, 2006)

$$C = R / P \tag{2.3}$$

Where:

R = Total depth of runoff (m)

P = Total depth of precipitation (m)

The runoff coefficient represents the proportion of total precipitation which turns into runoff. The value of runoff coefficient (C)depends on the catchment material. A typical values for C are shown in Table 2.1.

Table 2.1 Typical values of runoff coefficient - C(After Thompson, 2006)

Description	***Runoff coefficient***
Business	
Downtown area	0.7 – 0.95
Neighborhood area	0.5 – 0.7

Description	***Runoff coefficient***
Residential	
Single-family	0.3 – 0.5
Multi-family detached	0.4 – 0.6
Multi-family attached	0.6 – 0.75
Residential suburban	0.25 – 0.4
Apartments	0.5 – 0.7
Parks, cemeteries	0.1 – 0.25
Playgrounds	0.2 – 0.35
Railroad yards	0.2 – 0.4
Unimproved areas	0.1 – 0.3
Drives and walks	0.75 – 0.85
Roofs	0.75 – 0.95
Streets	
Asphalt	0.7 – 0.95
Concrete	0.8 – 0.95
Brick	0.7 – 0.85
Lawns; sandy soil	
Flat, 2% slopes	0.05 – 0.1
Average, 2% - 7% slopes	0.1 – 0.15
Steep, 7% slopes	0.15 – 0.2
Laws; heavy soil	
Flat, 2% slopes	0.13 – 0.17
Average, 2% - 7% slopes	0.18 – 0.22

Description	*Runoff coefficient*
Steep, 7% slopes	0.25 – 0.35

2.4.3.2.2 Rainfall intensity (*i*)

According to Thompson (2006), rainfall intensity depends on two different parameters:

1. Site location (geographic condition)
2. Assumed return period (discussed in Section 2.4.3.1)

Rainfall intensity of a catchment has a proportional relationship with the return period (RP) while having a constant duration of precipitation. This means by having longer return period, the rainfall intensity becomes greater for the same location considering constant rainfall duration. Besides, having a longer duration of rainfall results in a lower average rainfall intensity. Relation between mentioned parameters is available in Intensity-Duration-Frequency curves (IDF curves) (Heyns, 2000)

2.4.3.2.3 Time of concentration

According to Thompson (2006), time of concentration (t_c) is defined as the required time for a package of rainfall or precipitation to travel from most hydraulically distance in catchment to an outlet. Kerby (1959) stated that it is impossible to set a point as "most distant from outlet" in catchment and also it not possible to choose a reference point for finding time of concentration. Therefore, the concept of t_c is useful for describing the required time for catchment responding to any driving impulse like catchment runoff. In calculation of rational method, t_c describes the time required for all the catchment area to contributing runoff to an outlet. (Morgali & Linsley, 1965)

This means by having any rainfall duration different than t_c, the rainfall intensity would be lower than the expected rainfall intensity at t_c. Therefore, the rainfall intensity at t_c is chosen in order to select the peak runoff value (peak discharge) required in the rational method. There are several empirical methods available for estimating t_c. The selected method depends on engineer preferences based on Australian Rail Track Corporation (2013) recommendations. Three distinctive empirical methods of estimating t_c are presented as follows:

2.4.3.2.3.1 Morgali and Linsley method

Morgali and Linsley (1965) developed an empirical equation for estimating the time of concentration which is presented in Equation 2.4. Morgali and Linsley method is applicable for relatively small urban areas up to 0.08 Km^2 (20 acres). (After Morgali & Linsley, 1965)

$$tc = \frac{0.94(nL)^{0.6}}{i^{0.4}\, S^{0.6}} \tag{2.4}$$

Where:

t_c = time of concentration (h)

i = design rainfall intensity (m/h)

n = Manning surface roughness

L = length of flow (m)

S = slope of flow (dimensionless)

2.4.3.2.3.2 Kirpich method

Kirpich (1940) suggested a method for estimating the time of concentration for small drainage basins up to 0.80 Km^2 (200 acres) when subjected to channel flow. Equation 2.5 indicates the Kirpich method as: (After Kirpich, 1940)

$$tc = 0.0078(\frac{L^3}{h})^{0.385} \quad (2.5)$$

Where:

t_c = time of concentration (min)

L = length of main channel (m)

h = relief along main channel (m)

2.4.3.2.3.3 Kerby-Hatheway method

Kerby (1959) suggested a method for estimating the time of concentration for small drainage basins with the overland flow. Equation 2.6 shows the Kerby-Hatheway method where overland flow does not exceed 365.76 m (1200 ft). Kerby (1959) suggested a combination of Kerby and Kirpich equations when watershed length exceeds 365.76 m (1200 ft). (After Kerby, 1959)

$$tc = (\frac{0.67NL}{\sqrt{S}})^{0.467} \quad (2.6)$$

Where:

t_c = time of concentration (min)

N = Kerby roughness parameter (dimensionless)

S = overland flow slope (dimensionless)

Values of Kerby roughness parameter (N) are shown in in Table 2.2.

Table 2.2 Values of Kerby roughness parameter (After Thompson, 2006)

Description	***N***
Pavement	0.02
Smooth, bare packed soil	0.1
Poor grass, cultivated row crops Or moderately rough bare surfaces	0.2
Pasture, average grass	0.4
Deciduous forest	0.6
Dense grass, coniferous forest, or deciduous forest with deep litter	0.8

2.4.4 Decision on type of drainage system

At this level, a decision needs to be made on which type of drainage (surface, subsurface, and combination of both) is suitable based on:

1. Design investigation (covered in Section 2.4.2)
2. Required drainage capacity (covered in Section 2.4.3)

As previously mentioned, the type of selected drainage depends on:

- Site location and restrictions
- Different type of water sources
- Track structure
- Maintenance requirements

This is an important stage in designing process. At this level, by knowing the information about the site location, its restriction, and runoff data, the quantity of water which drains need to carry and drainage system component can be estimated.

According to Australian Rail Track Corporation (2013), total amount of required water draining can be derived from Equation 2.7. (After Australian Rain Track Corporation, 2013)

$$Q_{PF} = Q_R + Q_S + Q_C \quad (2.7)$$

Where:

Q_{PF} = water quantity (m^3/s)

Q_R = runoff quantity collected (m^3/s)

Q_S = subsurface water quantity intercepted (m^3/s)

Q_C = collected water quantity from existing drainage system (m^3/s)

The estimation of Q_R value is described previously in Section 2.4.3.2. In case of other extant connected drainage systems nearby, the quantity of Q_C can be derived from the measurement of outlet capacity of the existing drainage system. Estimation of the amount of subsurface water intercepted is difficult. If it is essential for a drainage system to intercept or remove any subsurface water, a detailed geotechnical and hydrological investigation is compulsory. (RailCorp Engineering Manual, 2009)

2.4.5 Surface drainage

RailCorp Engineering Manual (2009) suggested a flowchart for surface drainage design which is shown in Figure 2.30.

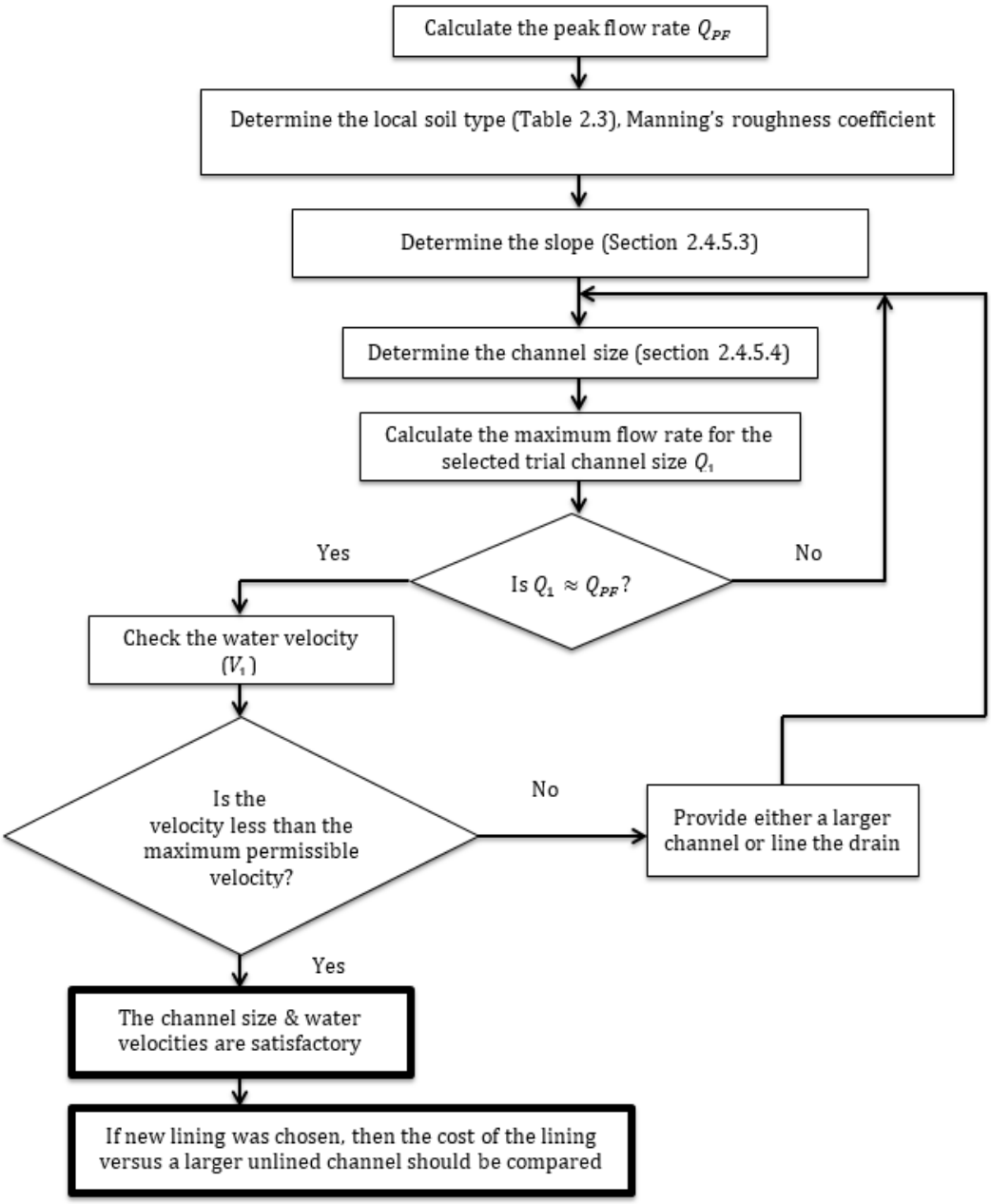


Figure 2.30 Surface drainage design flowchart (After RailCorp Engineering Manual, 2009)

This section elaborates on each stage for designing surface drainage system. As presented in Figure 2.30, the first step in designing surface drainage system is to obtain peak flow rate as described in Section 2.4.3.2.

2.4.5.1 Determination of required channel capacity

The first step for designing surface drainage is to obtain peak, or design flow rate. Based on the amount of water needs to be drained, the size of channels or pipes can be estimated. Suggested method for estimating the peak flow rate is presented in Section 2.4.4 and Equation 2.7. However, in most cases, Q_S and Q_C can be neglected for surface drains, due to the amount of water intercepted by drains, and collection of water from different drainage system can be handled by subsurface systems (Australian Rail Track Corporation, 2013). In this case, Equation 2.7 can be simplified to Equation 2.8 as: (After RailCorp Engineering Manual, 2009)

$$Q_{PF} = Q_R = \text{Peak flow rate } (m^3/s) \quad (2.8)$$

The next step is to obtain a Manning roughness coefficient depending on the material of surface drains. The chosen material for surface drains affect the velocity of water and the capacity of the drainage system. The typical Manning's roughness coefficient is presented in Table 2.3.

Table 2.3 Typical Manning's roughness coefficient for different channels and pipes (After RailCorp Engineering Manual, 2009)

Channel material	***Roughness coefficient 'n'***
Closed conduits	
Concrete pipe or box	0.012
Corrugated steel pipe – helical	0.02
Vitrified clay pipe	0.012
Fibre cement pipe	0.01
P.V.C pipe	0.009
Steel pipe	0.009 – 0.011
Lined open channels	
Concrete lining	0.013 – 0.017
Gravel bottom concrete sides	0.017 – 0.02
Gravel bottom rip rap sides	0.023 – 0.033
Asphalt rough	0.016
Asphalt smooth	0.013
Unlined channels – Earth uniform section	
Clean channel	0.016 – 0.018
With short grass	0.022 – 0.027
Gravelly soil	0.022 – 0.025
Unlined channels – Earth fairly uniform section	
No vegetation	0.022 – 0.025
Grass plus some weeds	0.03 – 0.035
Dense weeds	0.03 – 0.035

Channel material	*Roughness coefficient 'n'*
Clean sides gravel bottom	0.025 – 0.03
Clean sides cobble bottom	0.03 – 0.04
Rocks	
Smooth and uniform	0.035 – 0.04
Jagged and irregular	0.04 – 0.045

2.4.5.2 Obtaining drains slope

At this level, the slope of the drains needs to be assumed based on the site restrictions and location. The minimum slope of 1 in 100 is necessary to assume according to Network Rail, NR/SP/TRK/033 within the UK and also 1in 200 according to RailCorp Engineering Manual (2009), in the Australia.

2.4.5.3 Obtaining channel size

In this section, with assuming channel or pipe material covered in Section 2.4.5.2 and drains slope covered in Section 2.4.5.3, system capacity can be calculated from Manning's equation as presented in Equation 2.9. (After Utdallas.edu, 2017)

$$Q = \frac{1}{n}.A.R^{0.67}.S^{0.5} \tag{2.9}$$

Where:

Q = flow rate capacity (m^3/s)

n = Manning's roughness coefficient (presented in Table 2.3)

A = channel cross-section area (m^2)

R = hydraulic radius

S = drains slope (%)

According to Selig and water (1994), there are mainly two types of channels used for surface drainage purposes. Figure 2.31 demonstrates the available type of channel. Channels can be rectangular or trapezoidal.

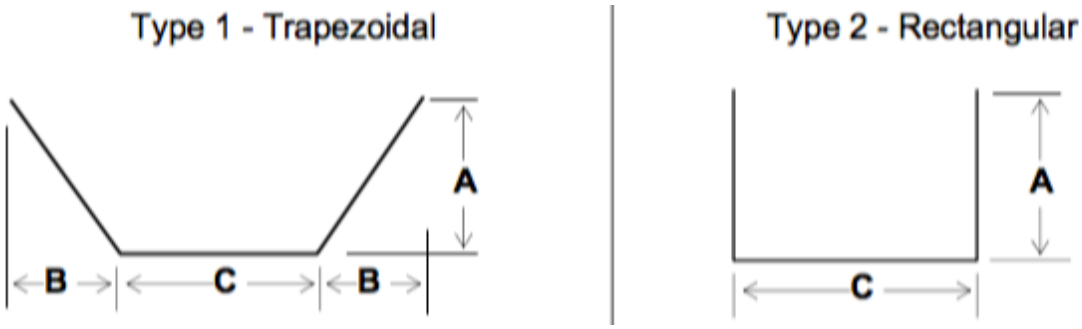


Figure 2.31 Different types of surface drainage channel

For ease of calculation RailCorp Engineering Manual (2009), proposed modified Manning's equation presented in Equation 2.9. In modified Manning's equation:

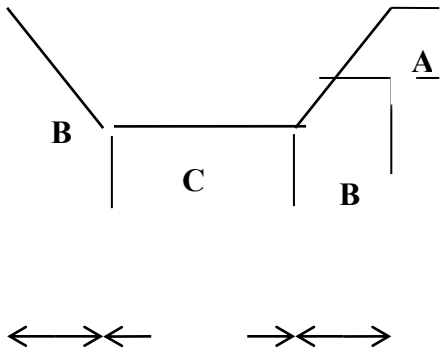
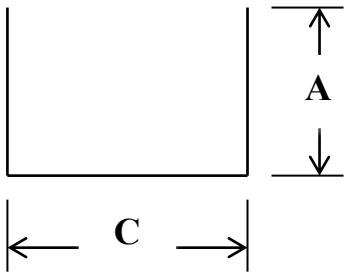
$$X = A.\ R^{0.67}$$

Therefore, the Manning's equation can be converted to Equation 2.10: (RailCorp Engineering Manual, 2009)

$$Q = \frac{1}{n}.X.S^{0.5} \qquad (2.10)$$

Table 2.4 represents pre-calculated "X" value for modified Manning's equation presented in Equation 2.10.

Table 2.4 Calculated value for "X" for modified Manning's equation (After RailCorp Engineering Manual, 2009)

***Channel Types*:**							
Type 1-Trapezoidal 				Type 2-Rectangular 			
Channel Dimensions (mm)				***Area (m^2)***	***Wetted Perimeter (m)***	***Hydraulic Radius (m)***	***"X" (Eqn 2.10)***
No	A	B	C				
1	200	-	300	0.060	0.700	0.086	0.012
2	200	-	450	0.090	0.850	0.106	0.020
3	200	200	300	0.100	0.860	0.115	0.024
4	200	300	300	0.120	1.021	0.118	0.029
5	200	200	450	0.130	1.016	0.128	0.033

6	300	-	450	0.135	1.050	0.129	0.034
7	300	200	300	0.150	1.021	0.147	0.042
8	300	300	300	0.180	1.149	0.157	0.052
9	450	-	450	0.203	1.350	0.150	0.057
10	300	200	450	0.195	1.171	0.167	0.059
11	300	450	300	0.225	1.382	0.163	0.067
12	300	300	450	0.225	1.299	0.173	0.070
13	300	200	600	0.240	1.321	0.182	0.077
14	300	450	450	0.270	1.532	0.176	0.085
15	450	-	600	0.270	1.500	0.180	0.086
16	300	300	600	0.270	1.449	0.186	0.088
17	300	450	600	0.315	1.682	0.187	0.103
18	300	200	900	0.330	1.621	0.204	0.114
19	450	300	450	0.338	1.532	0.220	0.123
20	300	300	900	0.360	1.749	0.206	0.125
21	450	-	900	0.405	1.800	0.225	0.150
22	450	450	450	0.405	1.723	0.235	0.154
23	450	300	600	0.405	1.682	0.241	0.157

24	300	450	900	0.405	1.441	0.281	0.174
25	450	450	600	0.473	1.873	0.252	0.188
26	450	300	900	0.540	1.982	0.272	0.227
27	450	450	900	0.608	2.173	0.280	0.260
28	600	600	600	0.720	2.297	0.313	0.332
29	600	600	900	0.900	2.597	0.347	0.440

2.4.5.4 Comparing channel capacity with design peak flow

At this level, by assuming channel material (Manning's coefficient) in Section 2.4.5.2, channel shape and size in Section 2.4.5.3, and channel slope in Section 2.4.5.4, the channel capacity is known. A comparison is needed between the calculated channel capacity and assumed design peak flow. Channel capacity needs to be greater than design peak flow. If determined channel capacity (calculated Q in Section 2.4.5.4) was smaller than design peak flow (calculated Q_{PF} in Section 2.4.5.1) or is considerably greater than Q, then another trial and error id needed to start from Section 2.4.5.3 (channel size and slope).

According to RailCorp Engineering Manual (2009), the proportion of calculated channel capacity to design peak flow is called safety factor. This safety factor is always greater than 1. The exact number of the safety factor directly depends on:

- Site location (regulation related to certain areas can be different depending on the amount of precipitation)
- Existing rail tracks in the area (safety factor must same for design procedure in the area)

- Soil profile (in some areas the probability of sedimentation is higher in comparison with different areas)

Therefore, a different safety factor can be used.

2.4.5.5 Determination of water velocity

By knowing the flow rate and the cross-section area of the channel, the water velocity can be calculated from Darcy's law. Water velocity can be calculated using Equation 2.11. (Jan.ucc.nau.edu, 2017)

$$V = \frac{Q}{A} \tag{2.11}$$

Where:

V = velocity (m/s)

Q = flow rate (m^3/s)

A = cross-section area (m^2)

2.4.5.6 Checking channel linings

At this level, by knowing the water velocity, a comparison needs to be made between the water velocity and the maximum allowable velocities depending on the material of the channel in order to minimise the risk of erosion. Table 2.5 indicates the maximum allowable water velocities in different channels.

Table 2.5 Typical maximum allowable velocities for channels (After RailCorp Engineering Manual, 2009)

Channel type	***Velocity (m/s)***
Fine sand	0.45
Silt loam	0.6
Fine gravel	0.75
Stiff clay	0.9
Coarse gravel	1.2
Shale, hardpan	1.5
Grass covered	1.8
Stones	2.5
Asphalt	3.0
Boulders	5.0
Concrete	6.0

The water velocity in the channel should be smaller than the maximum allowable velocity. If water velocity is greater than maximum allowable velocity, depending on site restriction, channel material can be changed. It is important to note that a change in channel material results in changing Manning's roughness coefficient in Section 2.4.5.2, and all the calculation need to be reviewed. If not, channel size and slope (Sections 2.4.5.3 and 2.4.5.4) need to be repeated in order to achieve satisfactory results in all mentioned conditions.

2.4.6 Subsurface drainage

RailCorp Engineering Manual (2009) suggested a flowchart for designing a drainage design which is shown in Figure 2.32.

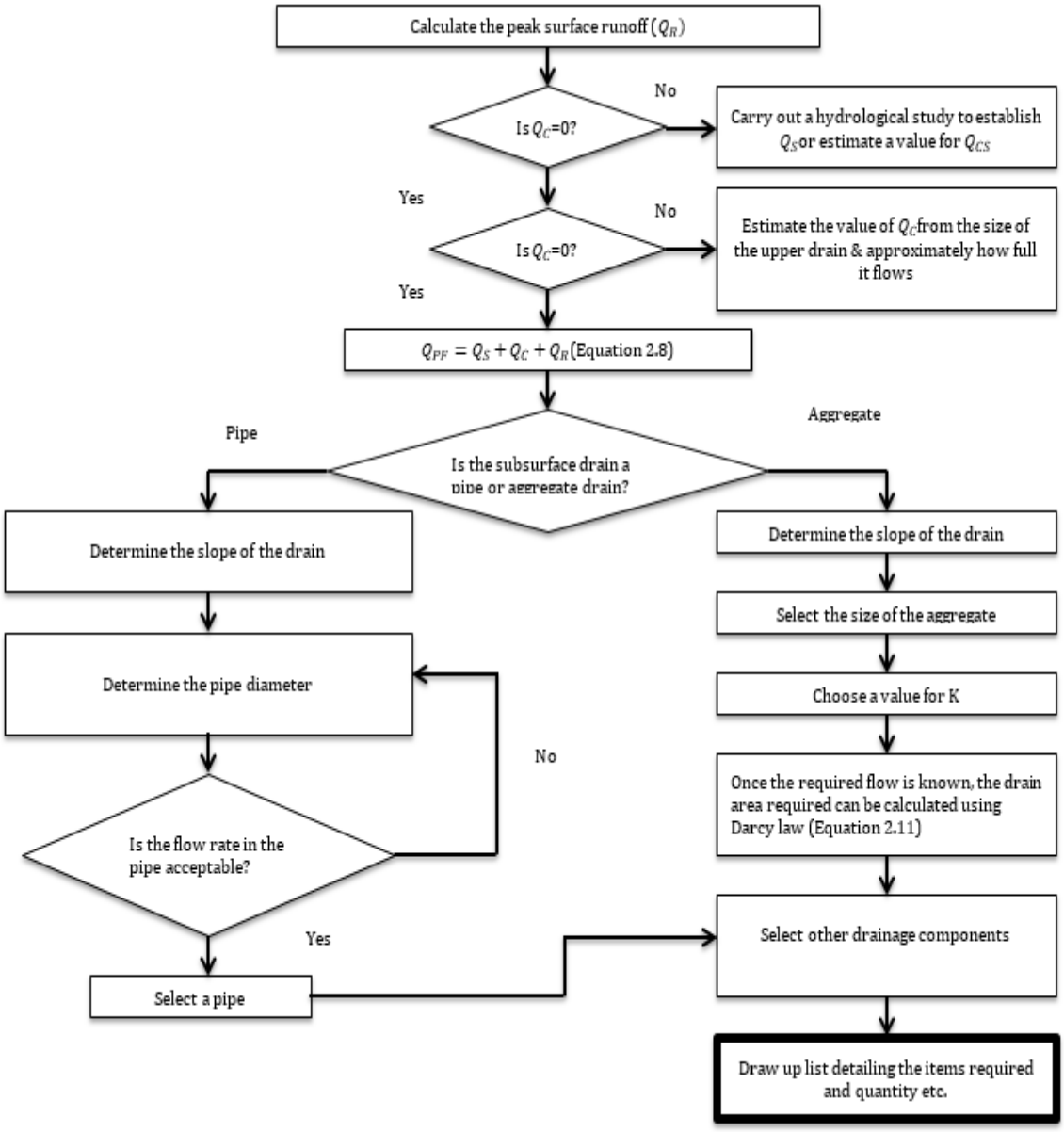


Figure 2.32 Subsurface drainage design flowchart (After RailCorp Engineering Manual, 2009)

According to Heyns (2000), subsurface drainage is used when surface drainage capacity is not sufficient for the amount of water that needs to be drained. This can be caused by high precipitation in the area or can be due to site restrictions and construction limitations of bigger channels or, existing of seepage under the tracks. However, generally surface drainage

system has the priority to the subsurface system due to ease of construction, cost and ease of maintenance. In this section, design steps of subsurface drainage system are being reviewed.

2.4.6.1 Determination of required channel capacity

As demonstrated in Figure 2.32, the first step in design of a subsurface drainage system is determination of required channel capacity. Calculation methods of required capacity was covered in Section 2.4.4 previously. Equation 2.7 is satisfactory for calculation of the required capacity. However, in most cases, the amount of Q_S (quantity of water intercepted) and Q_C (collected water from existing drainage system) cannot be neglected in the calculation. Also, a proportion of initial Q_{PF} is collected by surface drainage system and carried away with designed channels. (RailCorp Engineering Manual, 2009)

To calculate Q_C, the outlet capacity of existing drainage system needs to be calculated. Also, to estimate Q_S, further study needs be undertaken by an experienced hydrologist in order to calculate the required amount of intercepted water under the tracks.

By knowing the required capacity of subsurface drainage, at this level, the preferential subsurface drainage needs to be selected. This can be pipe drains or aggregate drains as previously covered in Sections 2.3.2 and 2.3.3.

2.4.6.2 Pipe drains

2.4.6.2.1 Selection of pipe

After estimating the required capacity of the system in Section 2.4.6.1, the type of pipe needs to be chosen. According to RailCorp Engineering Manual (2009), the available pipes suitable for drainage purposes are:

- Slotted and unslotted reinforced concrete pipes
- Slotted and unslotted fibre reinforced concrete pipes

- Slotted, perforated and unslotted steel pipes

RailCorp Engineering Manual (2009) stated the chosen pipe type needs to be fitting the site conditions. It is suggested that unslotted pipes must be chosen under the track for subsurface drainage purposes. On the other hand, slotted and unslotted pipes can be used for anywhere else.

2.4.6.2.2 Obtaining Manning's roughness coefficient

The next step entails obtaining a Manning's roughness coefficient for the chosen pipe in Section 2.4.6.2.1 in order to calculate pipe flow capacity. This number is usually accessible from manufacturer details for the product. Table 2.6 demonstrates Manning's roughness coefficient for the aforementioned types of pipes.

Table 2.6 Manning's roughness coefficient (RailCorp Engineering Manual, 2009)

Pipe material	***Roughness coefficient 'n'***
Concrete	0.011
Fibre cement	0.010
P.V.C	0.009
Steel diameter 100-300	0.012
Steel diameter 375	0.013
Steel diameter 450	0.014
Steel diameter 600	0.015

2.4.6.2.3 Obtaining slope for drains

According to Ghataora and Rushton (2009a), the base slope can speed up the process of drainage. Pipe slope can increase the velocity of collected water and speed up the process of drainage. In subsurface drainage, this slope can be crucial in order to avoid sedimentation and self-cleaning purposes.

Australian Rail Track Corporation (2013) noted the minimum slope of pipe must be 1:300 which is required for designing pipes in subsurface drainage systems, however, according to RailCorp Engineering Manual (2009) slope of 1 in 100 is desirable for self-cleaning purposes. Chosen slope needs to be suitable with site restriction and geometry.

2.4.6.2.4 Selecting pipe size

After selecting the pipe diameter, the capacity (Q) of pipe can be calculated by using Manning's method presented in Equation 2.9 (previously covered in Section 2.4.5.4).

Alternatively, pre-calculated values based on different pipe material (roughness coefficient) and diameter (pipe size) are presented in Table 2.7 for ease of calculation.

Table 2.7 Pre-calculated pipe capacities (RailCorp Engineering Manual, 2009)

Pipe diameter	***Pipe material***	***Drain slope***	***Maximum pip capacity (L/s)***
225	Fibre cement	1 in 100	58.3
		1 in 200	41.2
225	Concrete	1 in 100	53.0
		1 in 200	37.4
300	Fibre cement	1 in 100	125.6
		1 in 200	88.8

Pipe diameter	*Pipe material*	*Drain slope*	*Maximum pip capacity (L/s)*
300	Steel	1 in 100	104.6
		1 in 200	74.0
300	Concrete	1 in 100	114.1
		1 in 200	80.7
375	Fibre cement	1 in 100	227.2
		1 in 200	161.0
375	Steel	1 in 100	175.1
		1 in 200	123.8
375	Concrete	1 in 100	207.0
		1 in 200	146.6
450	Fibre cement	1 in 100	370.3
		1 in 200	261.8
450	Steel	1 in 100	264.5
		1 in 200	187.0
450	Concrete	1 in 100	336.6
		1 in 200	238.0
525	Fibre cement	1 in 100	558.7
		1 in 200	395.0
525	Concrete	1 in 100	507.9
		1 in 200	359.1
600	Fibre cement	1 in 100	797.7
		1 in 200	564.0
600	Steel	1 in 100	498.5
		1 in 200	352.5

Pipe diameter	*Pipe material*	*Drain slope*	*Maximum pip capacity (L/s)*
600	Concrete	1 in 100	725.1
		1 in 200	512.7

2.4.6.2.5 Determining the flow velocity with in the pipe

At this level, by knowing the pipe cross-section and the flow rate, the flow velocity can be calculated using Darcy's law presented in Equation 2.11.

The calculated velocity value must be smaller than the maximum allowable velocity within the pipe in order to prevent any damage to the inner surface of the pipe. The maximum allowable limit can be found in manufacturer guide for pipes.

2.4.6.3 Aggregate drains

According to Australian Rail Track Corporation (2013), this type of subsurface drainage is appropriate when having a small seepage flow under/adjacent track structure. In case of having greater seepage flow in the mentioned area, slotted pipes need to be added to the system. The calculation of designing aggregate drainage with the slotted pipe was fully presented in Section 2.4.6.2.

For calculating capacity of aggregate drains, RailCorp Engineering Manual (2009) suggests Darcy's law as presented in Equation 2.12. (After RailCorp Engineering Manual, 2009)

$$Q = k.i.A \tag{2.12}$$

Where:

Q = flow rate (m^3/s)

k = aggregate permeability (m/s)

i = hydraulic gradient or slope (dimensionless)

A = cross-section area (m^2)

Australian Rail Track Corporation (2013) claimed that the permeability values of clean gravel are between 0.01 m/s to 1 m/s. Consumption of only two types of gravel is also recommended in RTS3433.

- 20 mm aggregate
- 53 mm aggregate

Calculated permeability values for mentioned aggregates were reported at 0.15 m/s and 0.40 m/s respectively using the constant-head method. For ease of calculation, Table 2.8 represents the results for "k. i" values for different aggregate sizes and slopes.

Table 2.8 K values for modified Darcy's law (After RailCorp Engineering Manual, 2009)

Slope	***K = k . I (m/s)***	
	20 mm	***53 mm***
1 in 100	0.00150	0.0040
1 in 200	0.00075	0.0020
1 in 300	0.00050	0.0013
1 in 400	0.00038	0.0010
1 in 500	0.00030	0.0008

2.5 Fouling

According to Selig and Water (1994), the dynamic load generated from a passing train can create attrition among ballast particles. The contact stress between ballast particles will lead to ballast breakdown. The generated fine particles will result in significant reduction in ballast permeability and the ability of the ballast to maintain geometry. This phenomenon is known as ballast fouling. According to Indraratna et al., (2010), more than 70% of existing fine particles in ballast caused by ballast breakdown. Upward migration from subgrade towards ballast can also be named as another source of ballast fouling. (Rushton & Ghataora, 2009)

2.5.1 Sources of ballast fouling

A study was completed by Selig and Dellorusso (1991) on more than 30 ballast samples in North America to find out the different sources of ballast fouling. Myriad ballast samples span different ballast types and grading, climate, soil condition, and traffic. According to Selig and Water (1994), in more than 50% of locations, spotting of mud at the surface was a sign of poor and ineffective drainage.

Selig and Dellorusso (1991) noted that ballast breakdown was the major source of ballast fouling in the undertaken study. They classified the sources of ballast fouling as:

- Ballast breakdown
- Surface infiltration
- Sleeper wear
- Upward migration of fines from subballast
- Upward migration of fines from subgrade

Results of the study by Selig and Dellorusso (1991) is shown in Figure 2.33.

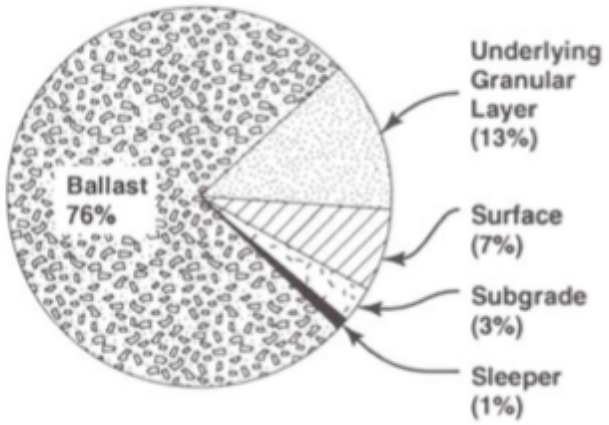


Figure 2.33 Different sources of ballast fouling (After Selig & Waters 1994)

Selig et al., (1988) believed that, apart from shipping and placing the ballast, other factors such as traffic loadings, environmental (climate change, weathering and freeze-thaw) and maintenance operations (such as tamping, regrading and handling) have a significant effect on the rate of ballast breakdown. Train spillage, fines moved by wind and rain are sources of the surface infiltration on the top of ballast. Presence of water can also trigger the mechanism of upward migration from underlying layers such as subballast and/or subgrade and finally, with the presence of wooden sleepers, degradation of sleepers can include 1% of total ballast fouling sources in the undertaken study. It is important to note, by having an effective drainage system when water moves through the structure as quickly as possible, the amount of upward migration of fines into ballast can be reduced or eliminated. Table 2.9 shows different sources of ballast fouling.

Table 2.9 Sources of ballast fouling (After Selig & Waters, 1994)

Type of ballast fouling	***Sources***
Ballast breakdown	Handling (at quarry, transportation and dumping)
	Thermal stress from heating
	Freezing of existing water in structure
	Chemical weathering (acid rain)
	Tamping
	Compaction machinery
	Traffic damage (repeated loading, vibration and hydraulic pressure of slurry)
Surface infiltrations	Delivered with ballast
	Train spillages
	Wind blown
	Dirt from adjacent area
Upward migration form subballast	Existing fine particles in subsoil under the repeated train loading and vibration migrate upwards in presence of water within the structure
Upward migration from subgrade	
Sleeper wear	Wooden sleeper's degradation

By neglecting the 1% tie wear (where wooden sleepers are used), sources of ballast fouling can be classified as:

- Subballast/Subgrade upwards infiltration
- Ballast breakdown/degradation
- Top surface infiltration of fine materials

2.5.2 Quantifying ballast fouling

There are three methods for quantifying ballast fouling. Selig and Waters (1994) introduced the Fouling Index (FI) to describe the ballast fouling as presented in Equation 2.13. (After Selig & Water, 1994)

$$\mathbf{FI = P_4 + P_{200}} \tag{2.13}$$

Where FI is fouling index and P4 and P200 are the percentage of ballast particles passing the number 4 sieve (4.75 mm) and number 200 sieve (0.075 mm) respectively.

According to Indraratna et al. (2011), Equation 2.13 is not applicable for different types of material available at the same time like materials with different specific gravity. (e.g. quarry fines compared to kaolin and coal)

Feldman and Nissen (2002) defined another method for classification of ballast fouling called Percentage Void Contamination as shown in Equation 2.14. (After Feldman & Nissen, 2002)

$$\mathbf{PVC = V_2/V_1\ X\ 100} \tag{2.14}$$

Where PVC is Percent Void Contamination, V_1 is the void volume between re-compacted ballast and V_2 is the total volume of re-compacted fouling material (particles passing 9.5 mm sieve)

The measurement of volume in this method is time-consuming. Also, if the total volume of fouling particles is used, the gradation of fouling particles cannot be taken into account using volume-based calculations.

Indraratna et al., (2011) introduced another parameter to define ballast fouling as "relative ballast fouling ratio" which does not have the mentioned limitations. In this study, all the measurements related to fouling material is based on relative ballast fouling ratio. Equation 2.15 defines the relative ballast ratio as: (After Indraratna et al, 2011).

$$\mathbf{R_{b\text{-}f} = M_f\,(G_{(b\text{-}f)}/\,M_b)\;X\;100} \qquad (2.15)$$

Where M and G_S are dry mass and specific gravity respectively and subscripts f and b represent fouling material and ballast respectively.

In Equation 2.15, only the mass of ballast and specific gravity of fouling material need to be measured. The relation between the mentioned fouling classification and categories of fouled ballast is shown in Table 2.10.

Table 2.10 Categories of fouling based on fouling index, percentage void contamination and relative ballast fouling ration (After Indraratna et al, 2011)

Category	***Fouling Index (%)***	***Percentage Void Contamination (%)***	***Relative Ballast Ratio (%)***
Clean	< 1	< 2	< 2
Moderately clean	1 to < 10	2 to < 9.5	2 to < 10
Moderately fouled	10 to < 20	9.5 to 17.5	10 to < 20
Fouled	20 to < 40	17.5 to 34	20 to < 50
Highly Fouled	> 40	> 34	> 50

Figure 2.34 shows the schematic view of clean to highly fouled ballast based on relative fouled ballast.

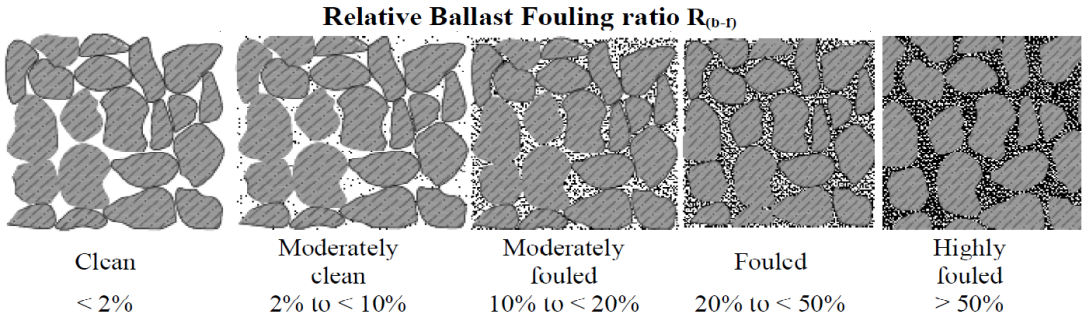


Figure 2.34 Schematic view of clean to highly fouled ballast based on relative ballast fouling (Danquah et al, 2014)

2.5.3 Effects of fouling on ballast behaviour

In this section, the impacts of fouling on ballast behaviour are defined. Creation and entering fouling material into the ballast can affect ballast and track structure in distinctive ways based on the volume, mass and types of fouling material such as settlement, hydraulic conductivity, resistance and resilient modulus. Therefore, effects of fouling material on the behaviour of ballast regarding mentioned parameters are investigated in this section.

2.5.3.1 Effects of fouling on Settlement

Han and Selig (1997) conducted a series of box test on different types of fouled ballast with different fouling indexes to examine the effect of fouling on ballast settlement. Figure 2.35 shows the effect of different amount of fouling and different fouling materials on ballast settlement.

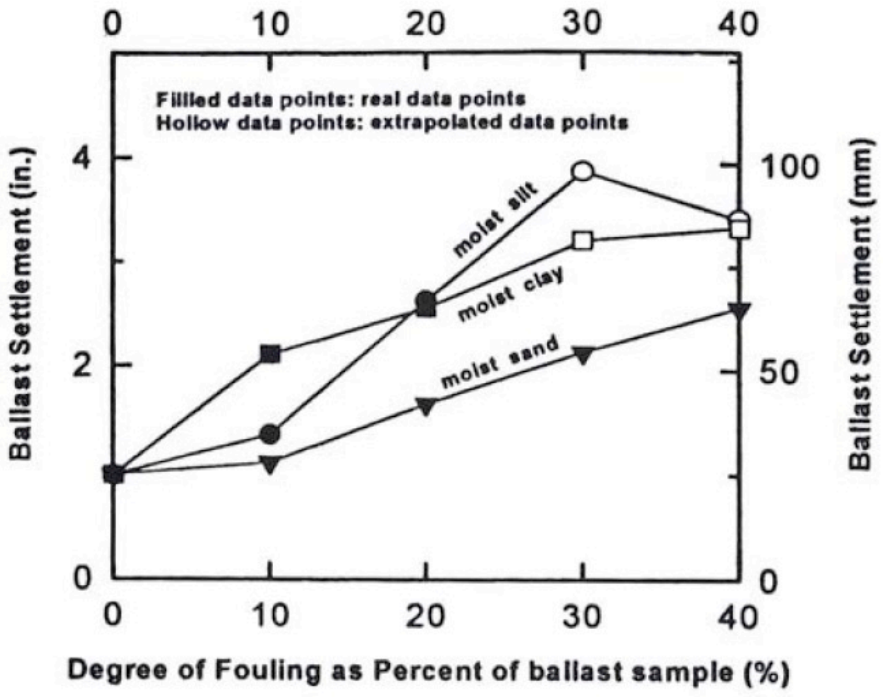


Figure 2.35 Effects of different fouling index and material on ballast settlement (Han & Selig, 1997)

Figure 2.35 shows an increase in ballast settlement as the fouling ratio of this layer increases with the presence of different fouling material. Han and Selig (1997) noted that settlement of ballast from clean to 20% fouled ballast with moist silt is less than moist clay fouled ballast. They believed this behaviour of ballast is a result of an increase in cohesion between fouling material particles. Whereas after fouling index reaches 20%, the rate of settlement of moist silt fouled ballast is increased and is greater than the value of settlement with moist clay fouled ballast. The amount of measured settlement in the moist sand was reported to be least in comparison with the mentioned fouling materials from clean to 40% fouling index.

Further investigation by Han and Selig (1997) showed the effect of water content on settlement of ballast fouled with different fouling material. Figure 2.36 presents the results of mentioned investigation.

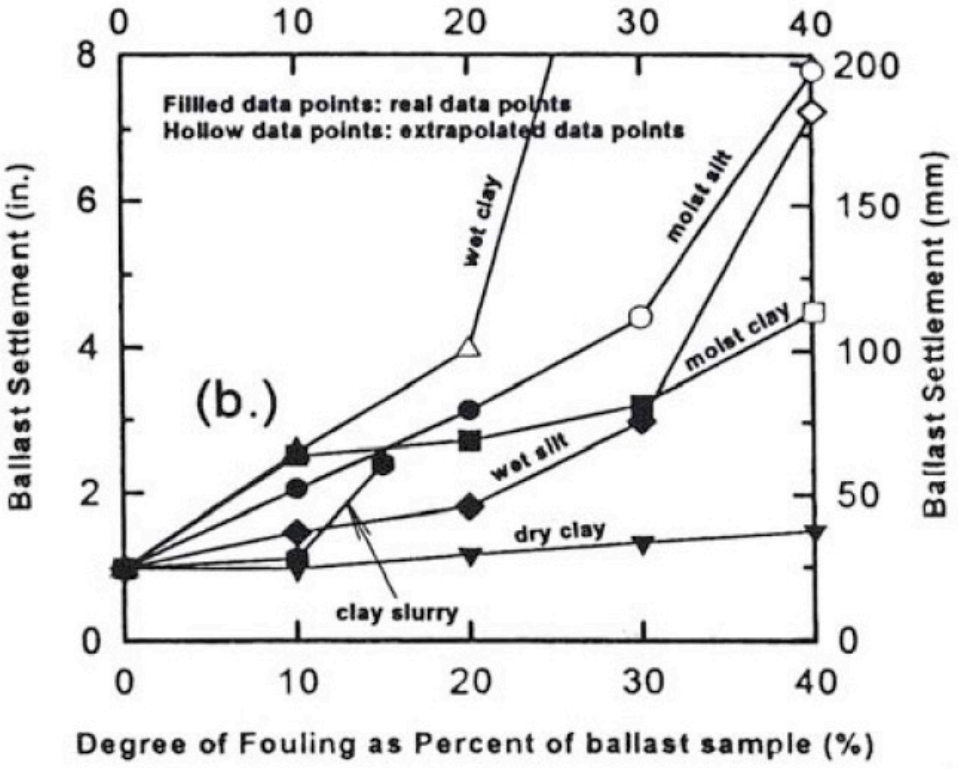


Figure 2.36 Effect of water content of different fouling index and material on ballast settlement (Han & Selig, 1997)

As demonstrated in Figure 2.36, ballast fouled with dry clay particles has the minimum rate of the settlement concerning other shown material. This is due to stiffness and strength of this particle reported by Han and Selig (1997). Adding water to clay can trigger a large increase in settlement of clay-fouled ballast as fouling index of ballast rises. Han and Selig (1997) concluded this sudden increase in the rate of settlement of clay-fouled ballast happens as a result of clay particles acting as lubricator among ballast particles. The reason of the sudden increase in silt-fouled ballast was reported to be same when having more than 30% ballast fouling index. As shown in Figure 2.36, the difference in the rate of settlement, with different fouling material is small when fouling index is up to 20%. They believed the mixture of ballast and fouling material is tending to act as ballast up to this point. By increasing fouling index, the mixture tending to act as fouling material itself. (Han & Selig, 1997). This

confirms the statement of Danquah et al., (2014) and Tennakoon et al., (2.12) regarding the hydraulic conductivity of fouled ballast.

2.5.3.2 Effects of fouling on ballast hydraulic conductivity and resistivity

Danquah et al., (2014) performed a set of hydraulic conductivity tests on fouled ballast with different fouling material such as crushed ballast, limestone fines and kaolin. Results are presented in Figure 2.37.

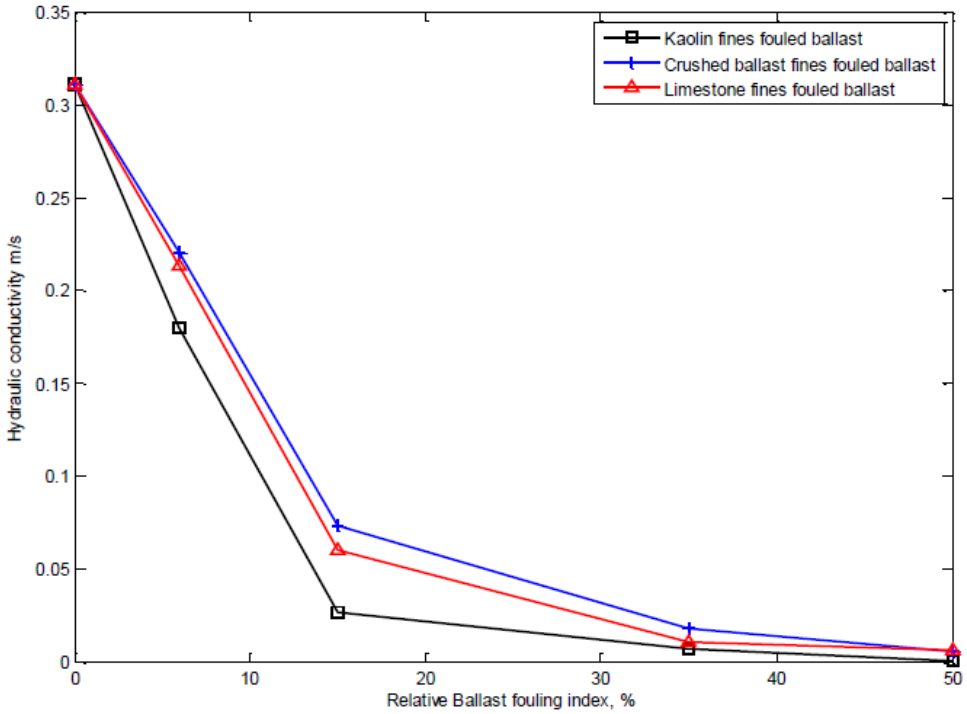


Figure 2.37 Hydraulic conductivity of fouled ballast (Danquah et al., 2014)

Danquah et al., (2014) noted that an increase in fouling index generates a decrease in ballast permeability. They also noted that, up to 15% relative fouling index (equal to 20% fouling index as described in Section 2.5.2) is called ballast braking point. The difference in the reductions of permeability value is less compared to highly fouled samples as a result of the

tendency of the mixture acting as ballast or fouling material in terms of permeability in the case of presence of coarser fouling agents such as crushed ballast.

Parsons et al., (2012), performed a set of laboratory test on hydraulic conductivity and resistivity of fouled ballast with clay and crushed ballast. The presented constant-head hydraulic conductivity results are in accordance with Danquah et al., (2014) findings.

Parsons et al., (2014) conducted a series of permeability and resistivity tests on clean and fouled ballast samples. Figure 2.38 shows the comparison between hydraulic conductivity and resistivity of different fouling material with an increase in fouling index. Resistivity of ballast is mainly used for quantifying critical level of fouling in the field and maintenance purposes.

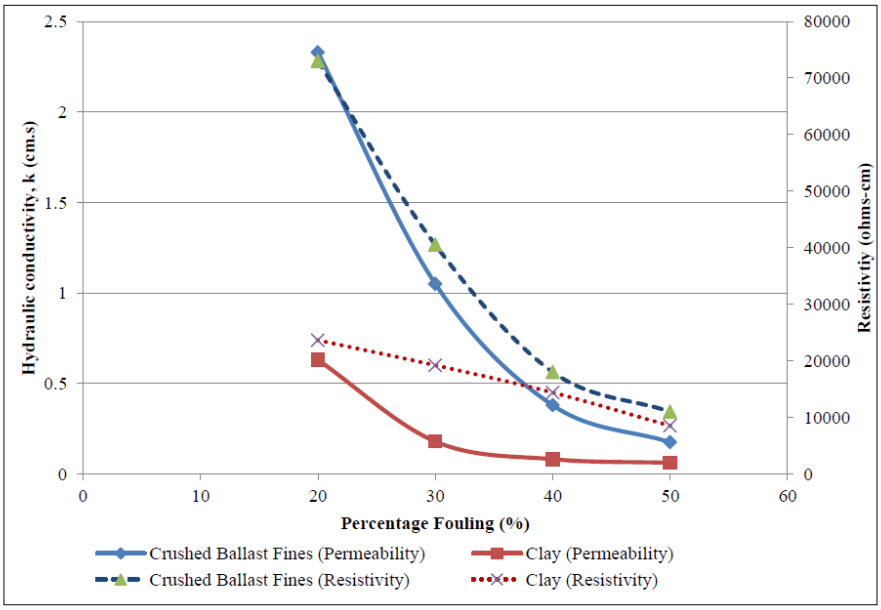


Figure 2.38 Comparison between hydraulic conductivity and resistivity of different fouling material with increase in fouling index (resistivity measured in 18th hours) (Parsons et al, 2014)

Figures 2.39 and 2.40 demonstrate the results of the resistivity of fouled ballast as fouling index increase with respect to time for different fouling agents.

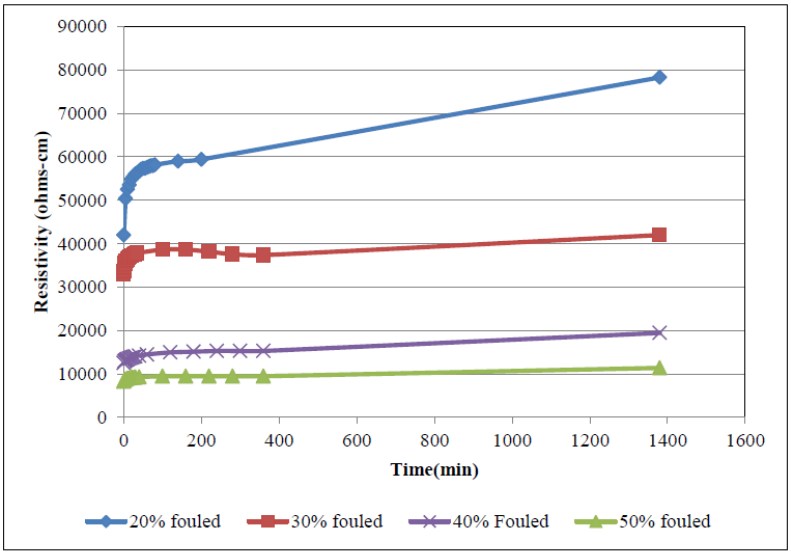


Figure 2.39 Resistivity of ballast fouled with crushed ballast with respect to time (Parsons et al, 2014)

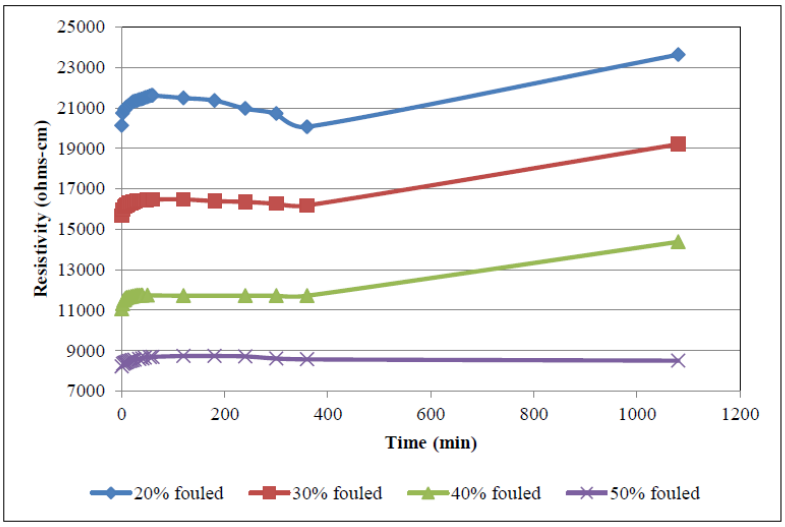


Figure 2.40 Resistivity of ballast fouled with clay with respect to time (Parsons et al, 2014)

Parsons et al., (2014) noted that an increase in fouling index generates a decrease in ballast resistivity due to the ability of fouled ballast to retain water within the structure (as shown in Figures 2.39 and 2.40, the ballast drains the water over time, then the resistivity increases). They also highlighted the consistency of resistivity value and permeability values for the same sample after 30% of fouling. As the permeability values drop notably as a result of the tendency of the mixture acting like fouling material in terms of permeability, the ability of the ballast to drain water decreases. Therefore, remaining water in the ballast generates an excessive reduction in sample resistivity.

Tennakoon et al., (2012) conducted a series of constant-head hydraulic conductivity tests on clay, sand and coal-fouled ballast samples based on volumetric measurements of ballast fouling. As demonstrated in Figure 2.41, they highlighted a significant reduction in ballast permeability as the void contaminant index, (VCI) or fouling index, increases.

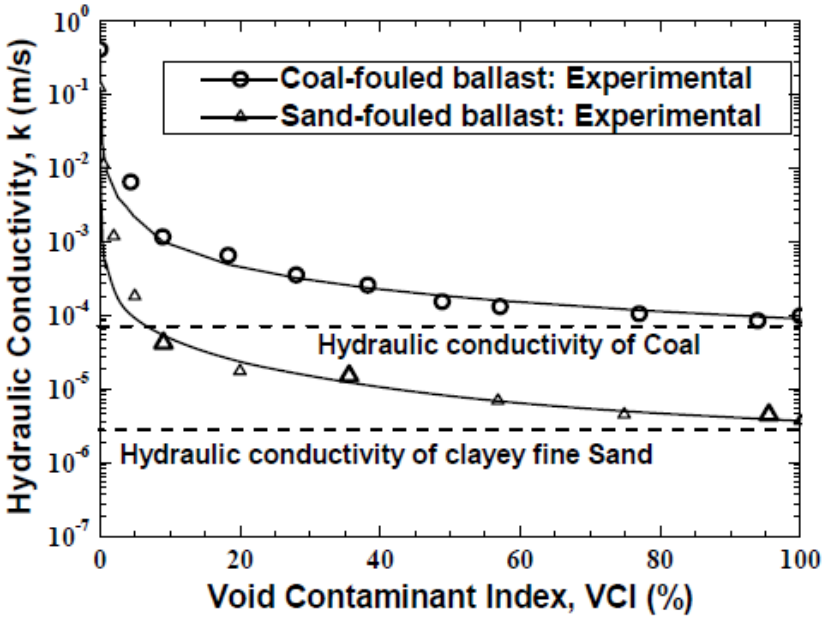


Figure 2.41 Variation of measured permeability values for coal and sand fouled ballast samples (Tennakoon et al, 2012)

Tennakoon et al., (2012) stated a decrease in hydraulic conductivity by a minimum factor of 200 as the void contaminant index decrease by 5% for sand and coal fouled ballast. This number rises to 1500 when the ballast sample is non-uniformly fouled with clayey sand particles. The variation in measured hydraulic conductivity of clay-fouled ballast is presented in Figure 2.42. The results show that the tendency of clay-fouled samples act as fouling material at and around 90% void contaminant index.

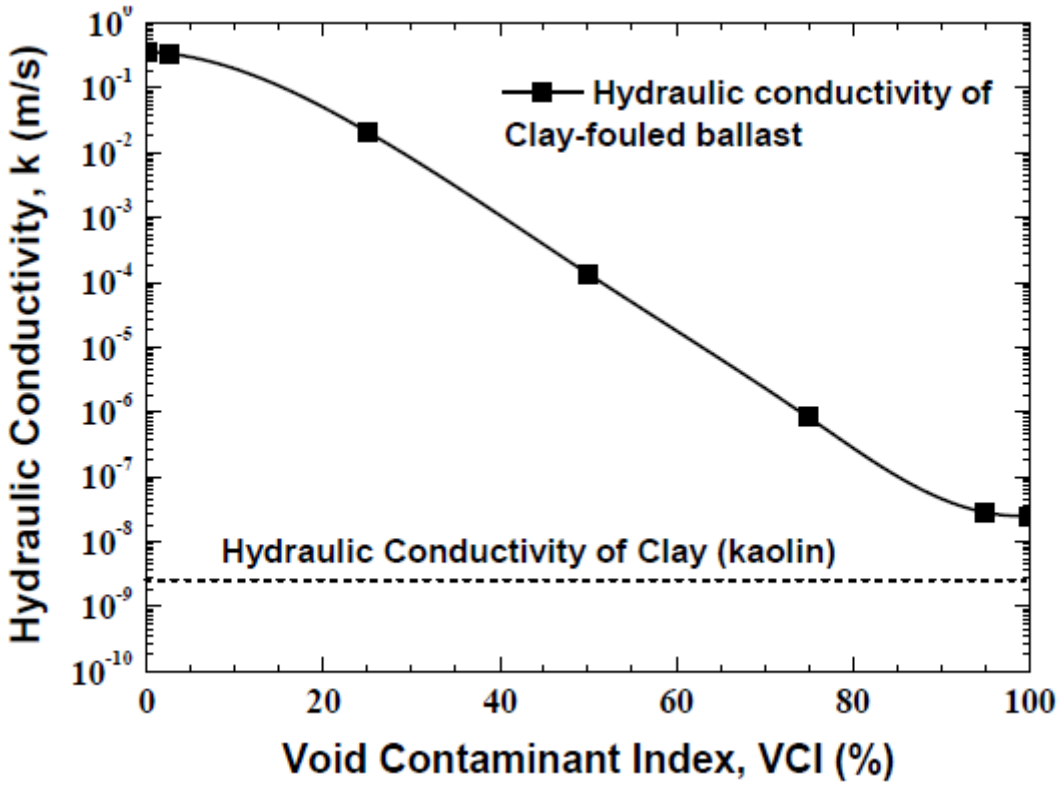


Figure 2.42 Variation of measured hydraulic conductivity of clay-fouled ballast (Tennakoon et al, 2012)

Tennakoon et al., (2012) suggested a classification of drainage capacity criteria based on the proportion Q/Q_c, where Q_c is the maximum rainfall intensity over ballast on the unit of ballast length in the field, and Q is maximum drainage capacity of ballast with respect to

different void contaminant index measured during the constant hydraulic conductivity laboratory test. Table 2.11 demonstrates the suggested drainage capacity criteria.

Table 2.11 Drainage capacity criteria (After Tennakoon et al, 2012)

Drainage classification	Q/Q_c
Free drainage	> 100
Good drainage	$10< Q/Q_c<100$
Acceptable drainage	$1< Q/Q_c <10$
Poor drainage	$0.1< Q/Q_c <1$
Very poor drainage	$0.001< Q/Q_c <0.1$
Impervious	< 0.001

A study by Wallace (2003) confirms the significance of the presence of fine particles on ballast permeability. This can be due to the ability of fine-particles to fill the small void spaces among large ballast particles, according to Wallace (2003). Fouling materials are sand, silt and clay. Measured hydraulic conductivity is presented in Figure 2.43.

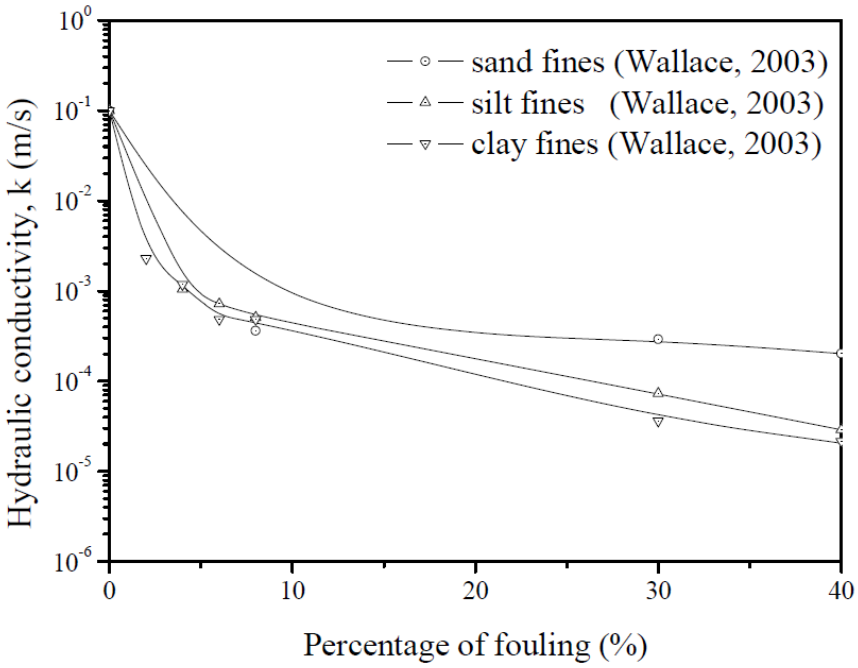


Figure 2.43 Variation of permeability with respect to fouling index (Wallace, 2003)

2.6 Movement of water under track structure

Railroad track components are introduced in Section 2.1. The damaging effects of the presence of water on the section behaviour are described in Section 2.2. Extant techniques and methods to keep water away from the section including surface and subsurface drainage are presented in Section 2.3. The challenges regarding the design of the mentioned drainage systems are discussed, and flow-charts for step by step of designing the mentioned systems are presented in Section 2.4. The phenomena of ballast fouling are presented in Section 2.5 along with different sources and methods for quantifying them. The negative impacts of fouling on ballast drainage capacity, resistivity, and settlement are indicated in the mentioned chapter. In this section, it is tired to investigate the movement of water through the dual-layer railway track system consisting of ballast and subballast on top of subgrade.

Heyns (2000) conducted a limited number of full-scale hydraulic flume laboratory tests in order to investigate the movement of water in the track cross section. Heyns (2000) expected

the precipitation entering the ballast rather than creation of runoff where ballast in clean, moderately clean and moderately fouled as demonstrated schematically in Figure 2.34. To avoid the entered water penetrating downwards and towards subgrade, it is necessary to drain the precipitation laterally towards the designed ditches through ballast and subballast. The ability of both layers to drain water is strongly depending on their permeability values. Heyns (2000) believed that the required energy to generate the discharge out of ballast is being developed from the elevation head caused by subballast slope and head difference in between the lowest and the highest point on a water level line on its path towards ditches.

By having flow of water within the section over time and assuming the subballast placed on top of impervious subgrade, section hydrograph can be plotted as presented in Figure 2.44.

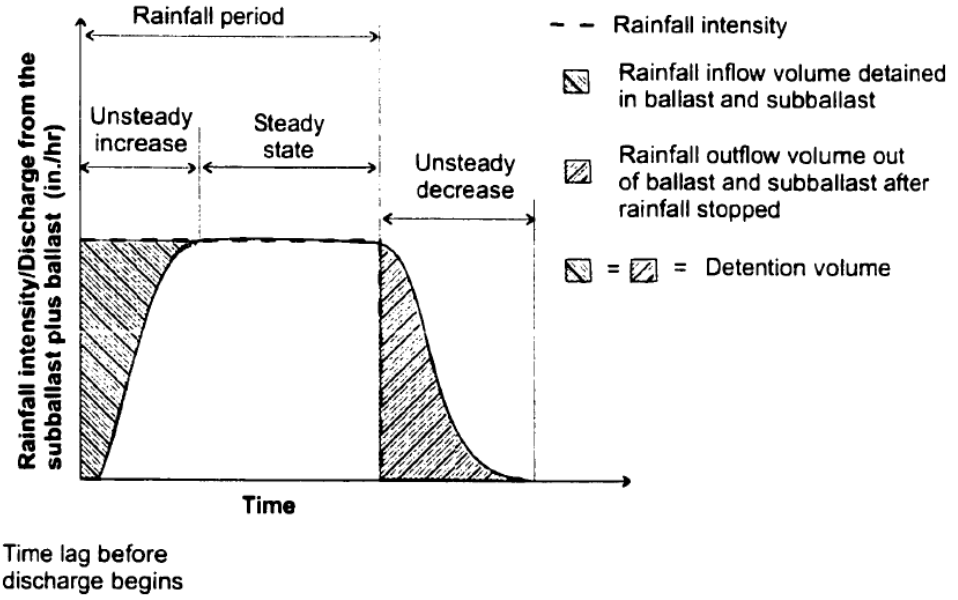


Figure 2.44 Discharge hydrograph for track section when having precipitation (Heyns, 2000)

As demonstrated in Figure 2.44, as precipitation starts, the rate of flow out of the system increases. In case the rainfall event continues for a specified period of time with the initial and constant intensity, the section reaches the steady state or equilibrium condition where the

inflow resulted from precipitation on top of ballast is equal to the sum of outflows out of ballast and subballast according to Heyns (2000). When the rainfall event finishes, the rate of discharge out of system decreases.

The discharge out of subballast directly depends on this layer's hydraulic conductivity. In case the subballast is formed of a coarser material like graded gravel without fines, the permeability of this layer is higher than the initial condition. Increasing the permeability of subballast leads to an increase in the flow of water with in this layer, and an increase in the discharge of this layer, consequently. Therefore, depending on the generated rainfall intensity on top of ballast, the subballast is not going to be fully saturated at any time when having low-intensity rainfall events. Figure 2.45 shows the hydrograph for partially saturated subballast where there is no flow in ballast/subballast boundary.

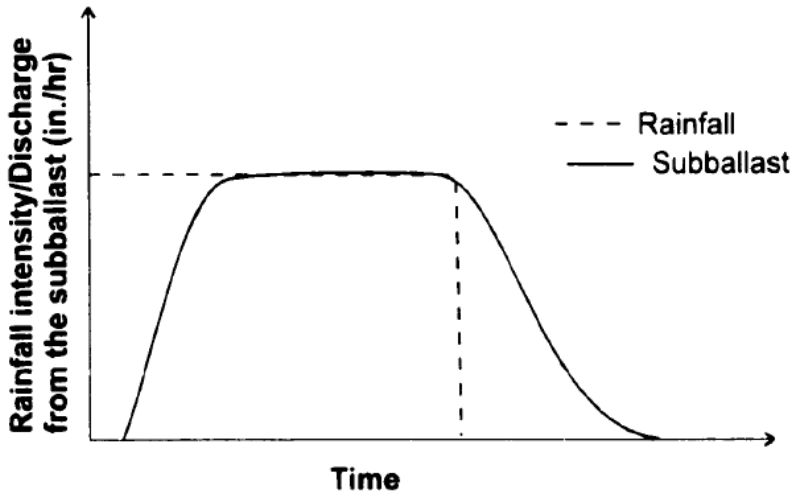


Figure 2.45 Discharge hydrograph when having partially saturated subballast (Heyns, 2000)

On the other hand, reducing the subballast hydraulic conductivity or increasing the generated rainfall intensity on top of the ballast, leads to formation of a flow in ballast/subballast interface. In this case, the section hydrograph can be plotted as presented in Figure 2.46.

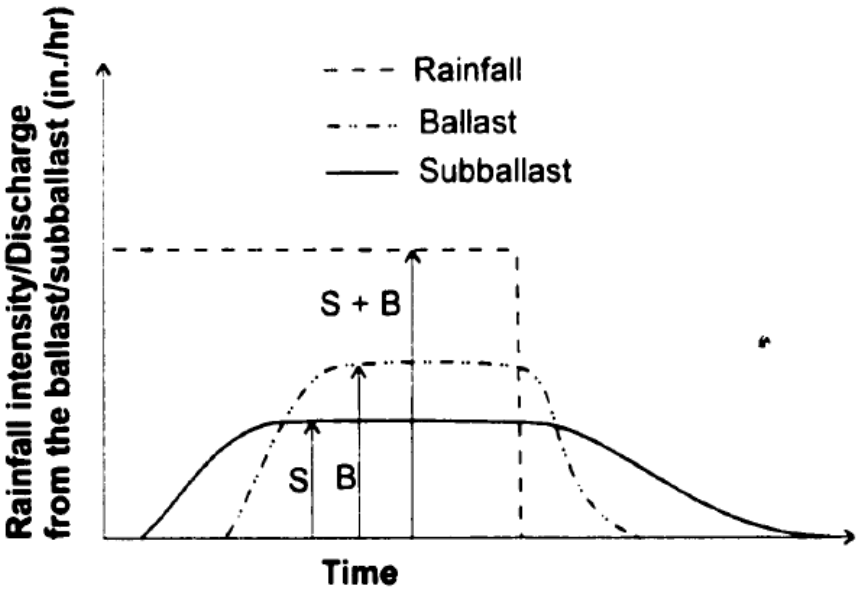


Figure 2.46 Discharge hydrograph when having fully saturated subballast (Heyns, 2000)

2.6.1 Ballast drainage

This section investigates the movement of water through ballast and, study the drainage of only this layer. As mentioned previously in Section 2.6, when the ballast is not highly fouled, the entered water resulted from precipitation penetrates downwards and towards the ditches instead of forming a runoff (Selig & Waters, 1994) (Heyns, 2000).

Selig and Waters (1994) confirmed various forms of flow within this layer based on the degree of fouling and generated rainfall characteristics such as:

1. Saturated or partially saturated
2. Steady or unsteady (change in rate of flow with respect to time)
3. Laminar or turbulent (based on the Reynolds number)

Cedergren (1977) investigated the flow of water in the soil. It is concluded that through a laminar flow, water describes a separate flow path and does not cross the other water particles. However, through a turbulent flow, each particle defines their flow path randomly.

According to Heyns (2000), due to small particles of soil, the flow of water in soil medium is generally assumed to be laminar while by having a relatively larger particle size in ballast, the flow of water within this layer tends to be turbulent. Figure 2.47 presents the flow of water through soil and ballast particles.

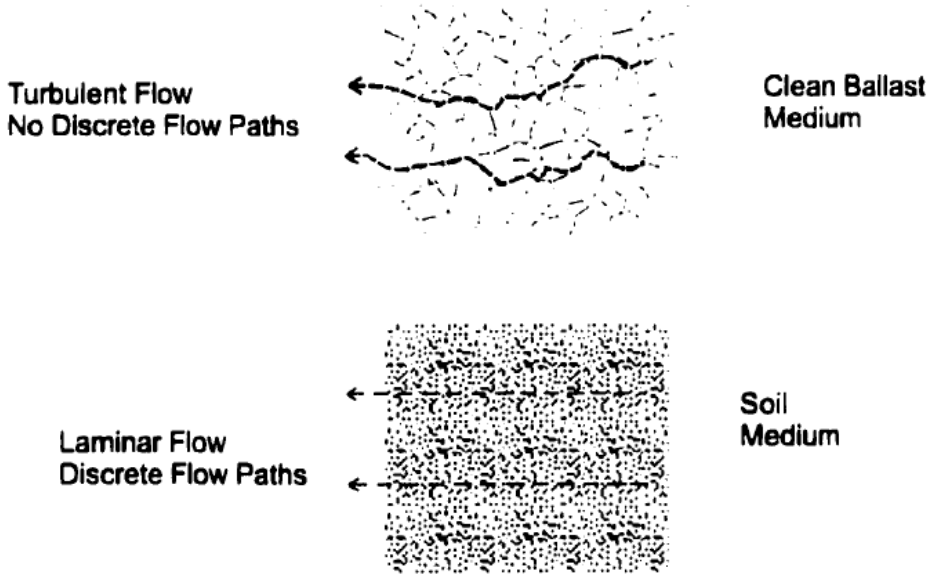


Figure 2.47 Flow of water through soil and ballast particles (Heyns, 2000)

According to Cedergren (1977), throughout the saturated flow of water with low velocities within laminar conditions in a granular soil sample, water layers sliding over other layers with a shearing resistance correlated to the viscosity of the water or any other fluid involved. Therefore, for this condition, Darcy's empirical equation can be adapted to calculate the discharge of fluid. Darcy's law was presented previously in Equation 2.12.

On the other hand, throughout the larger granular material such as clean ballast, the velocity of the water is relatively higher, the flow condition may become turbulent. This type of flow consumes a higher portion of energy in comparison with laminar flow. Heyns (2000) believed that during the laminar flows, the velocity of the fluid changes in direct proportion to the hydraulic gradient, whereas in turbulent or semi-turbulent flows this number changes at a

minor proportion with respect to hydraulic gradient. Cedergren (1997) noted that conversion of the flow from laminar to turbulent happens steadily and can be presented by the Reynolds number as presented in Equation 2.16. (Cedergren, 1977)

$$R = \frac{Q.d}{n.A.\upsilon} \tag{2.16}$$

Where:

n = porosity of soil

Q = water discharge m^3/s

d = average soil particle size (m)

A = soil cross section area (m^2)

υ = fluid kinematic viscosity (m^2/s)

An analytical study by Heyns (1997) on the examination of the type of flows on steady saturated seepage in ballast, revealed that:

1. The fouling index of ballast determines the condition of flow within this layer
2. The depth of flow in ballast determines the condition of flow to some extent
3. Ballast slope has no effect of type of flow

Table 2.12 demonstrates the summary of research on type of flow within the ballast by Heyns (1977).

Table 2.12 Measured Reynolds number for flow through a single-track ballast (After Heyns, 1977)

Depth of flow in ballast (ft)	Clean ballast (FI=0-1)	Moderately clean ballast (FI=1-20)	Moderately fouled ballast (FI=10-20)	Fouled ballast (FI=20-40)	Highly fouled ballast (FI=40)
	Measured Reynolds number				
0.1	22	8	1.2	0.4	0.002
0.2	44	16	2.4	0.8	0.004
0.5	111	40	6.1	2	0.01
1	222	81	12.1	4	0.02
1.5	333	121	18.2	6.1	0.03

A lateral permeability laboratory test conducted on, both, clean and fouled ballast, by Mulke (1981), in order to assess the flow of water through this layer. Presented results confirm the curved shape of water level from higher elevation head towards lower elevation head as depicted in Figure 2.48.

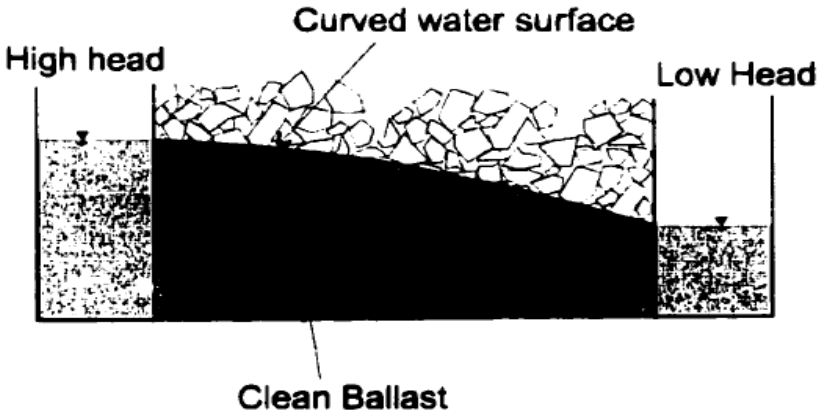


Figure 2.48 Lateral permeability test on clean and fouled ballast by Mulke (1981) (Heyns, 2000)

The following comments are made by Mulke (1981) during the lateral hydraulic conductivity tests:

1. Hydraulic gradient and measured discharge velocities has an non-linear relationship, Therefore, Darcy's law is not valid
2. Reorganising the ballast particles has considerable effect in the existing relationship between hydraulic gradient and measured discharge velocity when having fouled ballast samples
3. Conditions of flow were reported to be in transition region based on the measured Reynolds numbers when having clean and fouled ballast

Based on the mentioned observation by Mulke (1981) and conducted laboratory tests on clean and fouled ballast samples by Heyns (1997), Heyns (2000) concluded that the seepage in the clean ballast is turbulent. As the ballast becomes progressively fouled, the seepage tends to become laminar.

2.6.2 Subballast drainage

This section investigates the movement of water through subballast and studies the drainage of this layer. The major functions of this layer are previously discussed in Section 2.1.2.2. In order to assess the drainage of water through subballast, it is essential to investigate the hydraulic conductivity of this layer.

Heyns (2000) defined a new parameter as “subballast infiltration capacity”. This factor can be defined as the maximum rainfall intensity generated on top of clean ballast that fully saturates the subballast without creation any flow in ballast/subballast boundary. According to Heyns (2000), in case the generated rainfall intensity over clean ballast is less than subballast infiltration capacity, water penetrates the subballast at the rate of the generated rainfall. On the other hand, having rainfall intensity over subballast infiltration capacity results in a penetration to this layer at the maximum of subballast infiltration capacity by water. The excessive water forms a flow at the ballast/subballast edge.

Heyns (2000) concluded that the subballast infiltration capacity depends on following variables:

1. Ballast fouling index
2. Subgrade slope
3. Subballast initial moisture content

The impact of fouling index on the type of flow is discussed previously in Section 2.6.1. Formation of a slope beneath the subballast can accelerate the flow of water in this layer toward the ditches. Therefore, the water level declines at a higher rate after the rainfall cessation and the discharge out of subballast rises during the precipitation event when having

flow of water over a steep surface. Heyns (2000) indicated that lower initial moisture content of subballast generates a higher initial subballast infiltration capacity.

The investigation by Mulke (1981), shows the similarity between flow of water at ballast/subballast edge and overland flow. Research by Fetter (1994), assessed the influences of water table below the surface on rate of infiltration of overflow. Fetter (1994) indicated that existing capillary tension between soil particles absorb water into the soil. Therefore, when having dry soil samples, the initial infiltration rate is much higher. After passage of time, the infiltration rate of soil reduces to the point which the system achieves the equilibrium condition as presented in Figure 2.49.

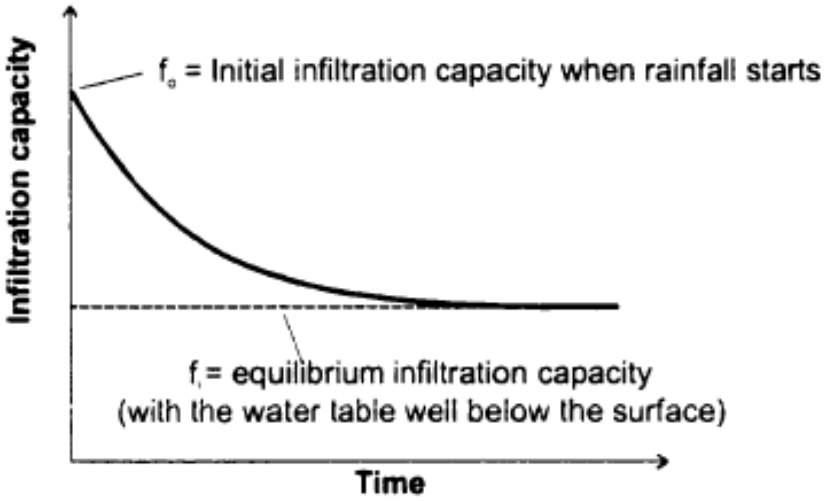


Figure 2.49 A significant drop in dry granular soil infiltration capacity (After Fetter, 1994)

A study by Kiefer (1998) suggested locating the hot mix asphalt between ballast and subballast layer in order to avoid layer penetration and consequent saturation. According to Heyns (2000), placing a hot mix asphalt in ballast/subballast interface cannot be useful due to:

- Unreachability for maintenance purposes

- Accumulated pore water pressure beneath this layer can create crack or damage the mixture
- Restriction the evaporation rate of subballast
- Uneconomical

As previously mentioned, in order to assess the lateral drainage capacity of the subballast, it is essential to investigate the hydraulic conductivity behaviour of this layer. According to Lambe and Whitman (1969), the permeability of soil sample is affected by following variables:

1. Particle size distribution
2. Dry density
3. Moisture content
4. Mineralogical configuration and texture

In order to investigate the effect of particle size distribution on samples hydraulic conductivity, Hazen (1911) presented an empirical approximation which is introduced in Equation 2.17. According to Huang (1993), this method is preferential for sand particles where D_{10} is located between 0.1 mm and 3 mm. (Heyns, 2000)

$$\mathbf{K = C_k \,.\, (D_{10})^2} \qquad (2.17)$$

Where:

K = permeability (m/s)

C_k = experimental coefficient according to nature of sample (1/m.s)

D_{10} = the particle size equivalent to 10% passing (m)

Huang (1993) proposed the typical values for C_k with respect to range of D_{10} which are presented in Table 2.13.

Table 2.13 Experimental values for estimating C_k (After Huang, 1993)

Soil type	**D_{10} variation (mm)**	**C_k (1/mm.s)**
Silty and well graded sands	0.003 – 0.6	5 – 8
Uniform sand	0.006 - 3	8 – 12

Shepherd (1989) conducted further studies on Hazen (1911) works in order to assess the effect of particle size distribution of soil samples on their hydraulic conductivity behaviour. Equation 2.18 is suggested by Shepherd (1989) in order to investigate the impact of particle size distribution on sample permeability (After Shepherd, 1989).

$$\mathbf{K = 3.53 \times 10^{-3} C (D_{50})^{j}} \qquad (2.18)$$

Where:

K = hydraulic conductivity (m/s)

C = shape factor according to nature of sample (1/mm.s)

D_{50}= the particle size equivalent to 50% passing (m)

j = an exponent according to nature of sample

Fetter (1994) proposed the typical values for C and j in Shepherd's method which are presented in Table 2.14.

Table 2.14 Typical values for Shepherd's method shape and exponent factor (After Fetter, 1994)

Deposit type	**C (1/mm.s)**	**j**
Dune	5000	1.85
Beach	1600	1.75
Channel deposits	450	1.65
Consolidated	100	1.5

According to Heyns (2000), apart from the soil hydraulic conductivity, effective porosity of the sample has a marginal impact on its drainage behaviour. Craig (1987) indicated that porosity could be introduced as the ratio of pore spaces volume of a sample to the total volume of that sample. Cedergren (1977) stated that the entire existing pore spaces in a sample are not obtainable to transfer fluids. Hence, a new parameter is defined as effective porosity, which is the ratio of the volume of voids that can be drained by means of gravity to the total volume of the sample. Fetter (1994) believed effective porosity or specific yield could differ from 0% for clay particles to maximum of 27% for gravel. The FHWA Highway Subdrainage Design Manual (1980) proposed a relationship between effective porosity and measured hydraulic conductivity of a sample which is presented in Figure 2.50.

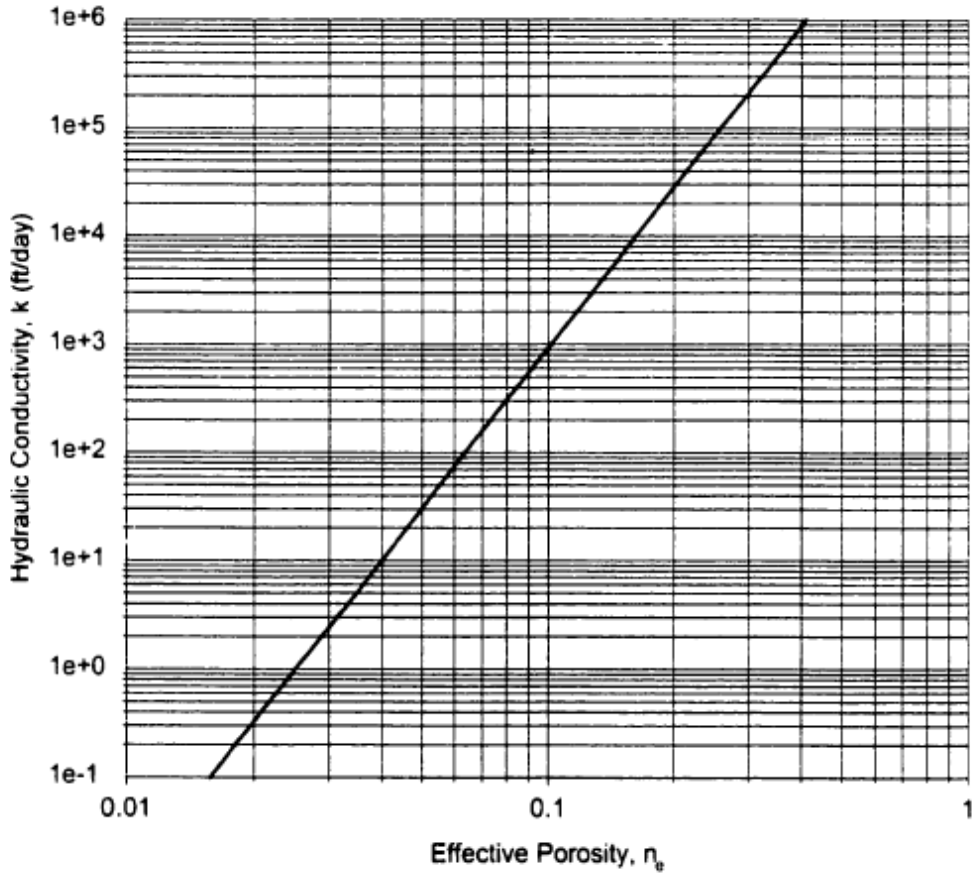


Figure 2.50 Relationship between sample effective porosity and measured hydraulic conductivity (FHWA Highway Subdrainage Design Manual, 1980)

2.6.3 Drainage of dual-layered track structure

The drainage of ballast is discussed in Section 2.6.1. The condition of flow within this layer as well as the parameters affecting that are presented. Accordingly, the lateral procedure of subballast drainage is indicated in Section 2.6.2. The infiltration capacity of this layer is introduced and the similarity of downward penetration of water in subballast and overland flow is discussed, and the factors affecting the mentioned capacity is introduced and discussed comprehensively. In this section, it is tried to investigate the drainage of two-layered railroad track structure located on top of impermeable subgrade deposit.

In order to investigate the movement of water through two-layered track section (water which results from from precipitation), Heyns (2000) conducted a limited number of hydraulic flume laboratory test on clean ballast samples placed on top of three different subballast layers. The full-scale track cross-section was subjected to different rainfall intensities. The section slope could have been changed from 0% to 5% to represent the subgrade slope. Six base piezometers are installed at the base of the container to measure the water level at any required time. The discharge out of ballast and subballast are collected separately using two different buckets. Heyns (2000) indicated that the used subballast layers are consisted of granular material with 0%, 10% and 18% of added fine particles respectively and can be named as subballast #1 to #3. The particle size distribution of used subballast layers are presented in Figure 2.51.

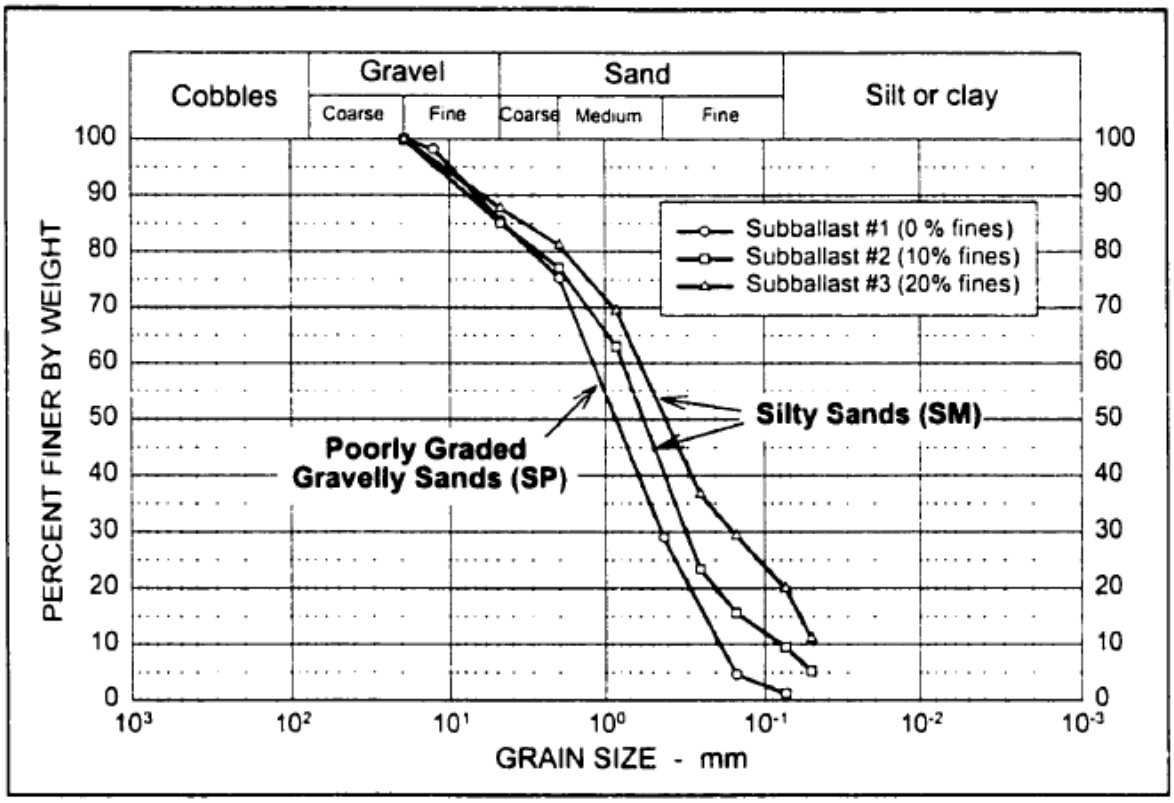


Figure 2.51 Particles size distribution of subballast #1 to #3 (Heyns, 2000)

The measured hydraulic conductivity and dry density for subballast #1 to #3 are presented in Table 2.15.

Table 2.15 Measured dry densities and permeability values for Subballast #1 to #3 (After Heyns, 2000)

Subballast	**Dry density (g/cm^3)**	**Hydraulic conductivity (m/s)**
#1	1.97	0.00056
#2	2.01	7.4×10^{-5}
#3	2.00	7.05×10^{-6}

Observations made by Heyns (2000) highlighted that ballast and subballast layers drained water in three different manners amongst the conducted laboratory tests. As previously mentioned in Section 2.6.2, subballast infiltration capacity or q_n can be defined as the maximum rainfall intensity generated on top of clean ballast that fully saturates the subballast without creation of any flow in ballast/subballast boundary. Heyns (2000) defined a new parameter as "critical rainfall intensity" or q_c which is the rainfall intensity that saturates the subballast at no-flow boundary at steady state condition as depicted in Figure 2.52.

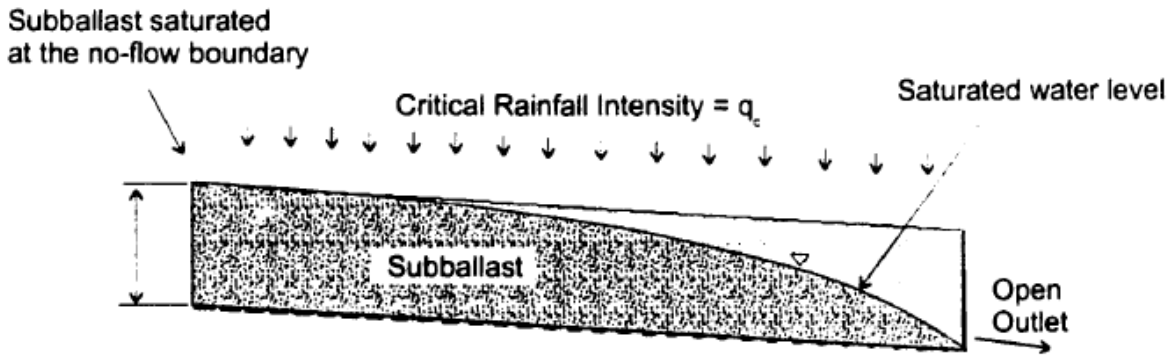


Figure 2.52 Definition of critical rainfall intensity (Heyns, 2000)

Heyns (2000) believed the section reacted to penetrated water in three different ways. The results can be clustered based on occurred rainfall intensities as:

1. Where generated rainfall is less than subballast infiltration capacity and critical rainfall intensity ($q < q_c < q_n$)
2. Where generated rainfall located between subballast infiltration capacity and critical rainfall intensity ($q_c < q < q_n$)
3. Where generated rainfall is greater than subballast infiltration capacity and critical rainfall intensity ($q_c < q_n < q$)

According to Heyns (2000), Condition 1 is the preferential condition for water drainage out of section because the permeability value of subballast is high enough for the occurred rainfall intensity to drain the subballast without shedding any water at the ballast/subballast boundary as presented in Figure 2.53.

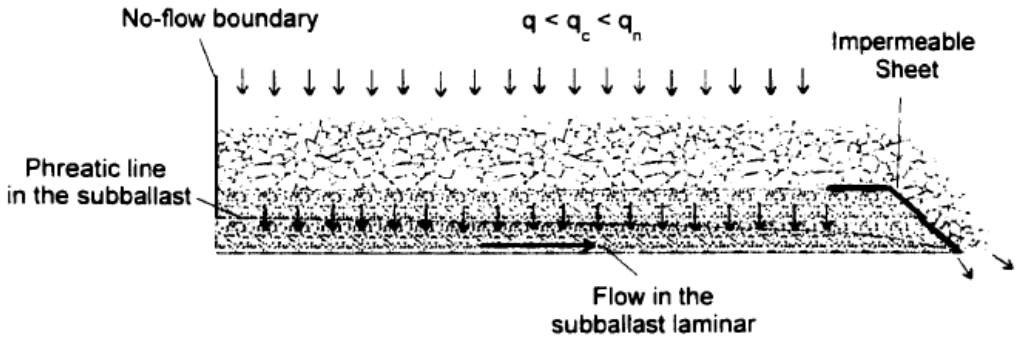


Figure 2.53 Generated rainfall is less than subballast infiltration capacity and critical rainfall intensity (Heyns, 2000)

In Condition 2, where generated rainfall was located between subballast infiltration capacity and critical rainfall intensity, there was no-flow observed at ballast/subballast interface except the no flow boundary. The subballast was reported to eventually drain the entered water towards the outlet as presented in Figure 2.54.

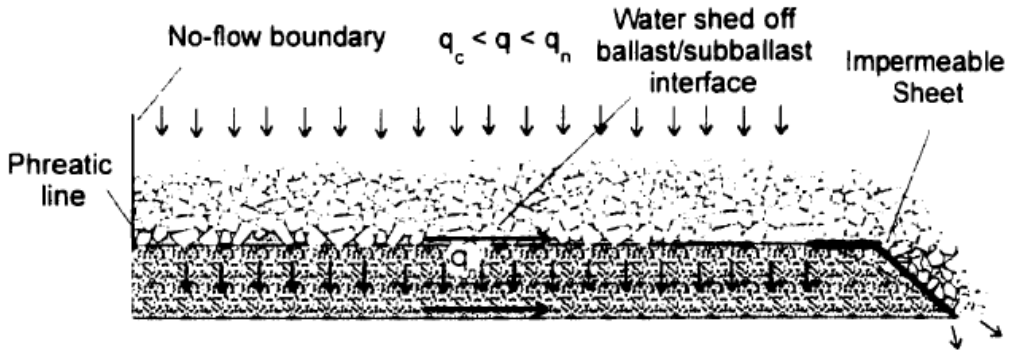


Figure 2.54 Generated rainfall located between subballast infiltration capacity and critical rainfall intensity (Heyns, 2000)

Finally, in Condition 3, where generated rainfall is greater than subballast infiltration capacity and critical rainfall intensity, the additional water was reported to cause the water level to rise within the ballast as presented in Figure 2.55. The water was collected from separate buckets towards the end of the container.

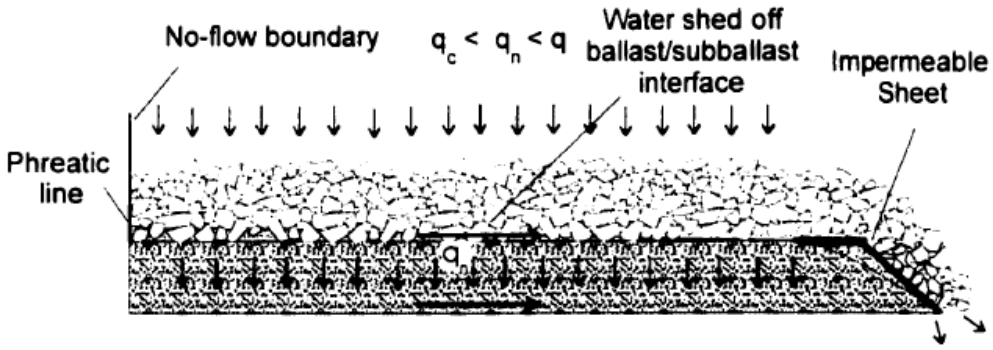


Figure 2.55 Generated rainfall located between subballast infiltration capacity and critical rainfall intensity (Heyns, 2000)

Heyns (2000) reported that the cumulative discharge out of the system consists of the following step as presented in Figure 2.56:

1. Unsteady increase by the start of rainfall
2. Steady-state during the rainfall event

3. Unsteady decrease after finishing the rainfall

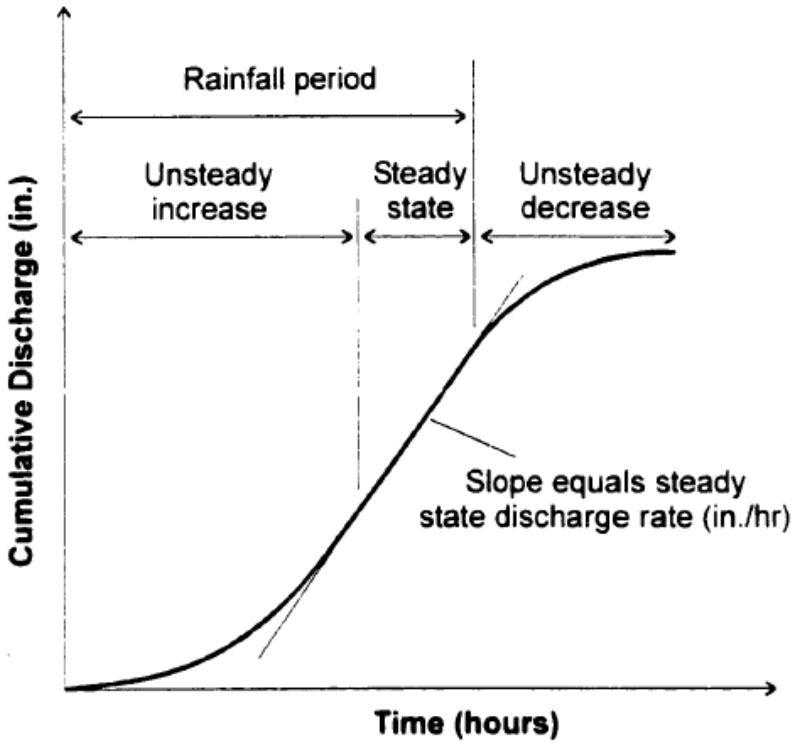


Figure 2.56 Cumulative discharge out of system (Heyns, 2000)

The cumulative discharge out of the system results from the sum of cumulative discharges out of ballast and subballast with respect to time. The cumulative flow or discharge can be stated in terms of volume (m^3) or discharge (m^3/s) or head (m) where the total volume of collected water (m^3) is divided by the area of generated rainfall (m^2).

Full-scale hydraulic flume test conducted by Heyns (2000) on clean ballast samples, revealed the time required for subballast to reach a steady state condition when having wide range of rainfall intensity with different subballast characteristics as presented in Figure 2.57.

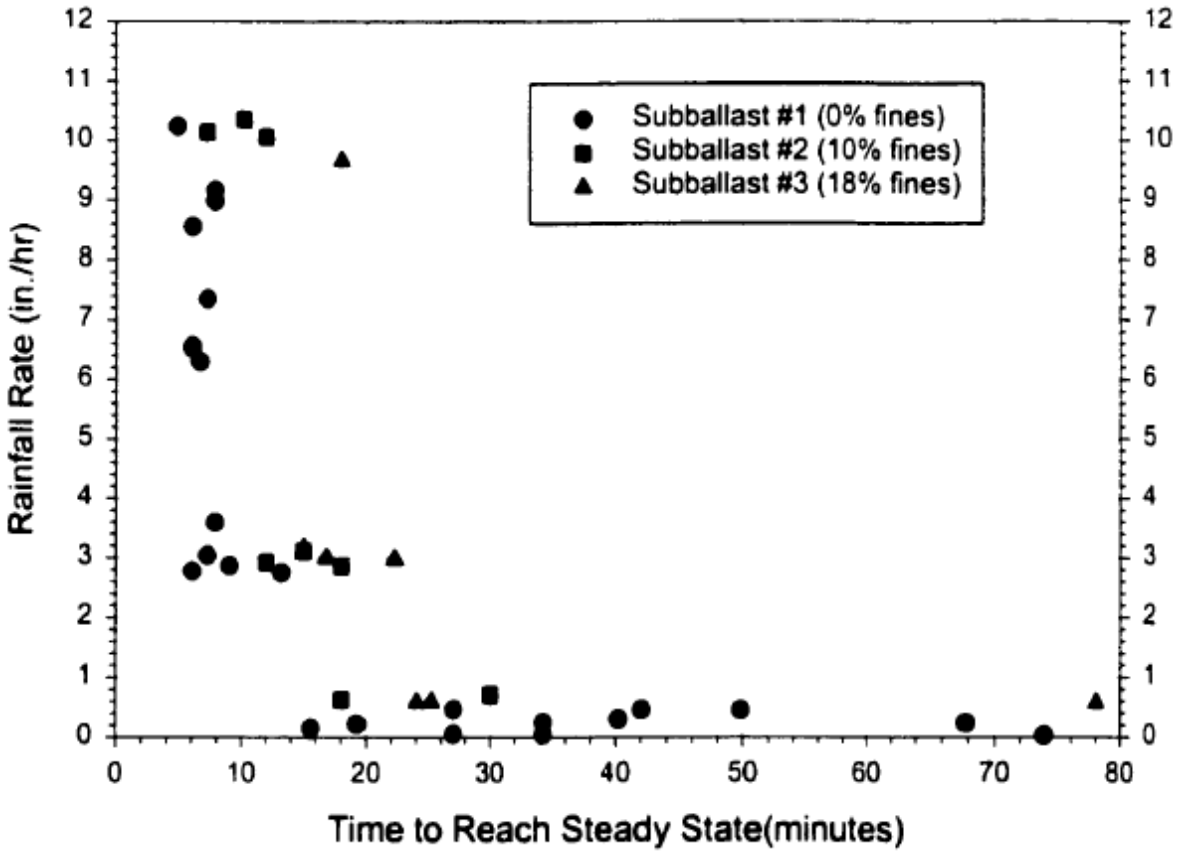


Figure 2.57 Required time for the section to reach steady state condition against generated rainfall intensities with different subballast characteristics (Heyns, 2000)

The impact of generated rainfall intensity on required time for subballast to obtain steady state condition is demonstrated in Figure.2.57. Samples subjected to the higher intensity of rainfall achieved steady state condition in relatively earlier times. Heyns (2000) concluded that the required time for subballast to achieve steady state condition depends on the time from the previous test which indicated the initial moisture content of subballast. The effect of hydraulic conductivity of subballast is also highlighted in his texts. As mentioned previously in Table 2.15, the subballast used can be sorted by the measured hydraulic conductivity values from higher to lower as subballast #1 to #3.

The individual results of required time for the subballast layers to reach the steady state condition against generated rainfall intensities of each subballast type are presented in Figures 2.58 to 2.60 respectively.

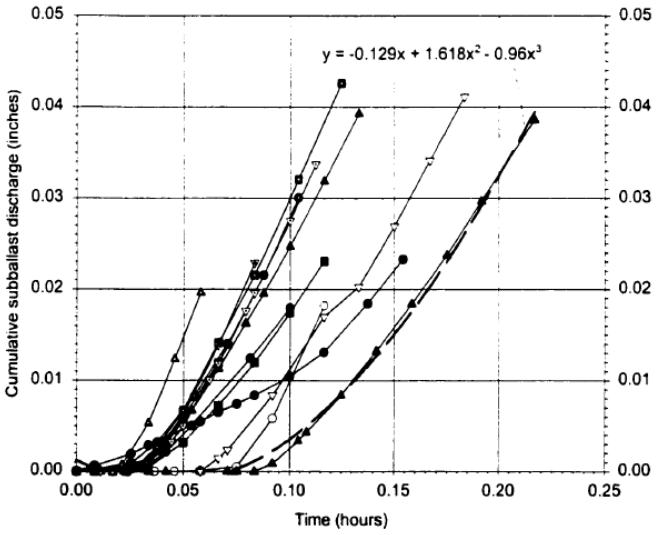


Figure 2.58 Required time for the subballast #1 to reach steady state condition against generated rainfall intensities (Heyns, 2000)

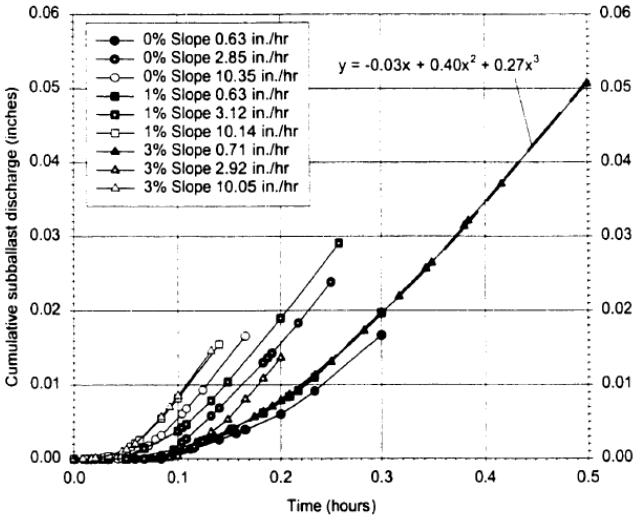


Figure 2.59 Required time for the subballast #2 to reach steady state condition against generated rainfall intensities (Heyns, 2000)

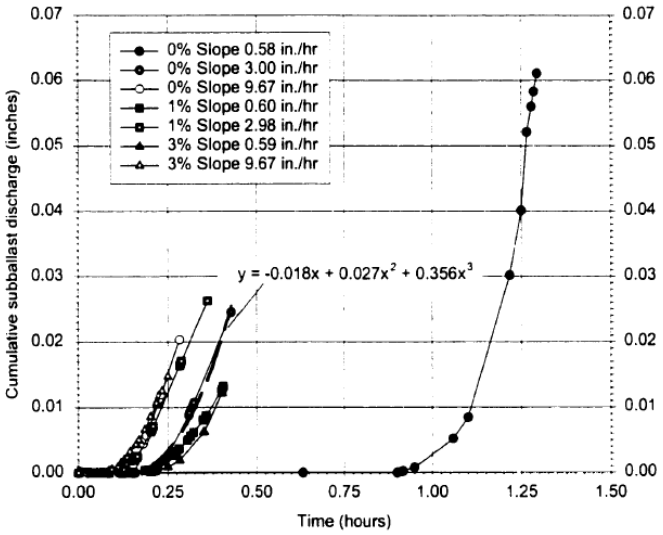


Figure 2.60 Required time for the subballast #3 to reach steady state condition against generated rainfall intensities (Heyns, 2000)

The impact of the aforementioned variables on the required time for the subballast or the section to achieve steady state condition cannot be investigated due to inconsistency in generated rainfalls and section slope during laboratory testing. It is not possible to assess the impact of individual parameters when more than one variable is changing in testing condition. Therefore, a complete set of full-scale laboratory flume testing is recommended without the mentioned consistency in the relevant parameters.

2.6.4 Quantifying water level and system discharge

At this point, the drainage behaviour of ballast and subballast investigated individually in Sections 2.6.1 and 2.6.2 respectively. The drainage of dual-layer track cross-section consisted of ballast and subballast located on top of impermeable subgrade was discussed in Section 2.6.3 and parameters affecting that were introduced and investigated. In this section, it is tried to quantify the effect of mentioned variables on water level within, and the discharge out of the system.

2.6.4.1 Water level measurements

According to Youngs and Rushton (2010), the numerical studies and analysis conducted on subsurface drainage of track formation is insufficient. This is because there is only one study conducted on this topic and the available data is limited to only this study. According to Rushton and Ghataora (2009a), by using time-variant Dupuit-Forchheimer solution, the water table in rail track cross section can be estimated for any track cross-section as demonstrated in Figure 2.61.

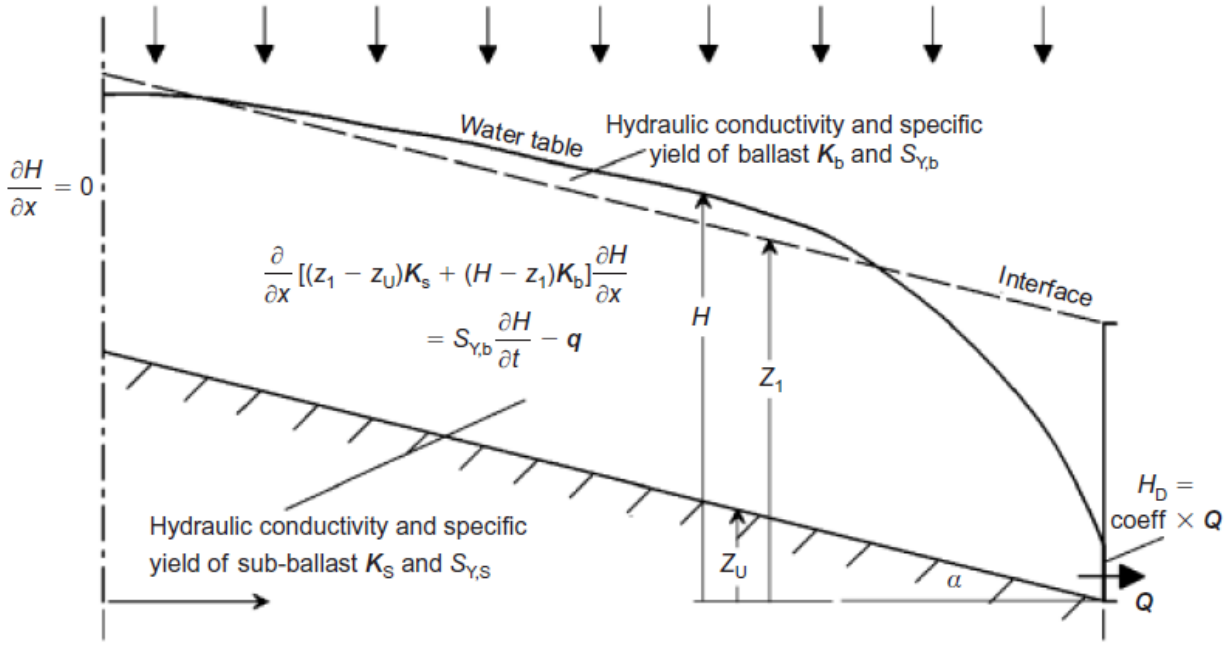


Figure 2.61 Typical track cross-section showing parameters H, Z_l and Z_u (Rushton & Ghataora, 2009)

Rushton and Ghataora (2009a) and Rushton and Ghataora (2009b) presented a solution to predict the water level with respect to different section and rainfall characteristics, based on full-scale hydraulic flume laboratory test conducted by Heyns (2000). The mentioned solution is presented in Equation 2.19. (Rushton & Ghataora, 2009a)

$$\frac{\partial\,[\,(\,Z1-Zu)Ks+(H-Z1)Kb\,]}{\partial x}.\frac{\partial H}{\partial x}=Sy,b.\frac{\partial H}{\partial t}-q \qquad (2.19)$$

Where:

H= ground water head in Dupuit-Forchheimer analysis (m)

K_b = ballast permeability (m/s)

K_s = subballast permeability (m/s)

q = rainfall intensity (m/s)

$S_{y.b}$ = subballast specific yield

x = distance from centreline (m)

Z_l = elevation of interface between ballast subballast (m)

Z_u = elevation of base of subballast (m)

t = time (s)

Q = subballast discharge (m^3/s)

According to Rushton and Ghataora (2009a), and Rushton and Ghataora (2009b), by knowing the ballast and subballast permeability values, subballast specific yield value, and the intensity of generated rainfall on top of ballast, the water level can be calculated at any given time and distance from the centreline. The applicability and precision of these empirical methods is investigated comprehensively in Section 2.7.1.

2.6.4.2 System discharge measurements

According to Heyns (2000), discharge out of hydraulic flume container can be predicted using empirical model derived from Darcy's law. Heyns (2000) model, for flow estimation is only valid when there exists partially saturated subballast. Heyns (2000) observed a steady flow out of ballast when having a very impermeable subballast. By having an impermeable subballast beneath the ballast layer, the capacity of this layer to drain water laterally is significantly reduced. Reduction in drainage capacity of this layer results in a sudden rise in water level when having a rainfall. Due to accumulated water, and elevation head difference (in case of having any section slope), the flow of water is guided towards the outlet of the flume.

According to Heyns (2000), Darcy's empirical equation for saturated steady flow can be stated as presented in Equation 2.11. In case of having a flow in a porous medium as depicted in Figure 2.62, the hydraulic gradient can be achieved using Equation 2.20. (Heyns, 2000)

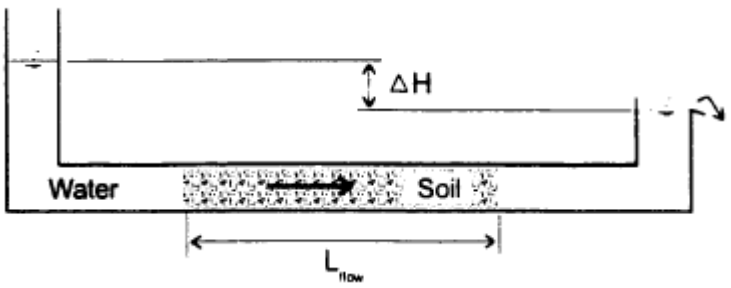


Figure 2.62 Flow through a porous medium (Heyns, 2000)

$$i = \frac{\Delta h}{L\,flow} \tag{2.20}$$

Where:

Δh = total head loss (m)

$L\,flow$ = length of flow path (m)

As previously mentioned, the proposed empirical solutions by Heyns (2000) are only valid with extant partially saturated subballast. In this case, the schematic flow of water can be presented in Figure 2.63.

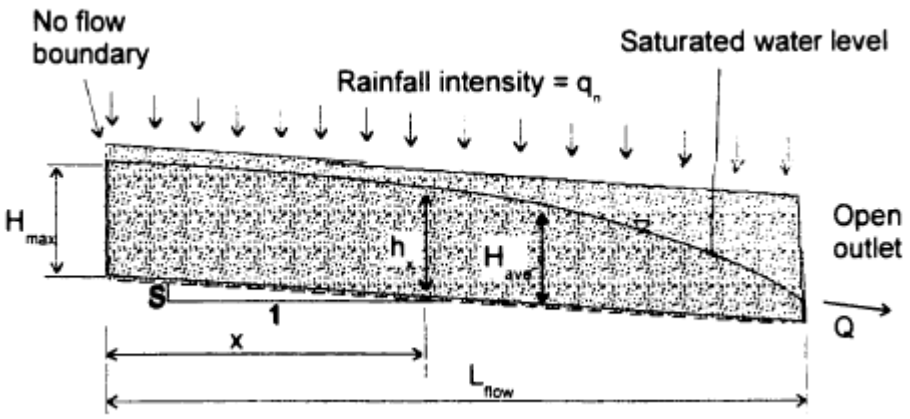


Figure 2.63 Partially saturated subballast (Heyns, 2000)

Therefore, assuming the flow of water is in the steady condition, and the water level is not reaching the ballast/subballast interface, the hydraulic gradient can be derived using Equation 2.21. (Heyns, 2000)

$$i = \frac{S.L\ flow + H\ max}{L\ flow} \quad (2.21)$$

Where:

S = section slope (%)

H_{max} = saturation depth at no flow boundary (m)

L_{flow} = horizontal length of flow path (m)

Therefore, by replacing Equation 2.21 into the Equation 2.11 (Darcy's law), the discharge of water can be calculated using Equation 2.22. (Heyns, 2000)

$$Q = K.H\ ave\ (S + \frac{H\ max}{L\ flow}) \quad (2.22)$$

Where:

Q = flow rate out of subballast per unit track length ($m^3/h/m$)

H_{ave} = average flow depth of water in subballast (m)

As mentioned earlier, the condition of flow was assumed to be steady. Therefore, the rate of the inlet is equal to the rate of the outlet Q, as depicted in Figure 2.63. Hence, the rate of inlet flow can be assumed to be equal to the occurred uniform rainfall on top of the ballast. In this case, by replacing the occurred rainfall "q" by the outlet discharge "Q", Equation 2.22 can be substituted by Equation 2.23 as: (Heyns, 2000)

$$q = K.H\ ave\ (S + \frac{H\ max}{L\ flow}) \tag{2.23}$$

Where:

q = uniform rainfall intensity penetrating the subballast (m/h)

Finally, when having the entire section, and rainfall characteristics, and the permeability values for the subballast, H_{ave} can be calculated by using the piezometers readings from the following method, described in Figure 2.64.

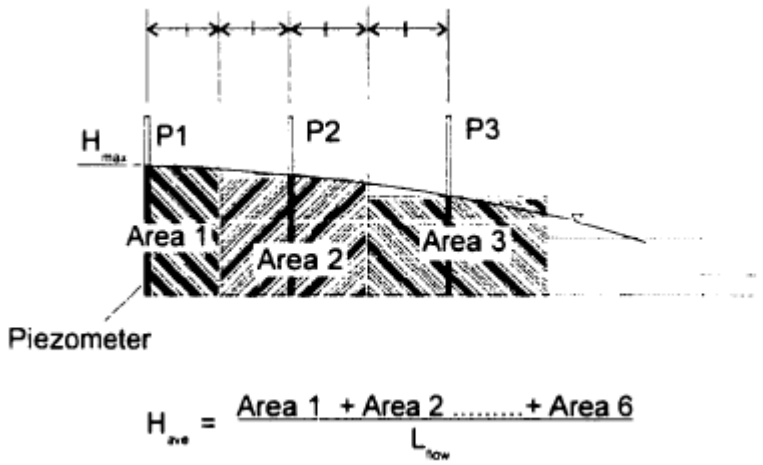


Figure 2.64 Numerical integration procedure for calculating H_{ave} (Heyns, 2000)

Heyns (2000) compared the laboratory subballast discharge results with the theoretically developed prediction model. It is reported that there is a massive difference between laboratory results, and model predictions. The collected flow out of subballast is reported to be much greater than the predicted values. The applicability and precision of the mentioned empirical methods is being investigated comprehensively in Section 2.6.2.

2.7 Limitations of current methods of evaluation of flow beneath the track

Current methods of quantifying the flow of water under the rail track is highlighted in Section 2.6.4. This section investigates the limitations and the uncertainties in the evaluation of water level estimation and section discharge measurements separately in Sections 2.7.1 and 2.7.2.

2.7.1 Water level measurements

As previously mentioned, Rushton and Ghataora (2009a) indicated that by using time-variant Dupuit-Forchheimer solution, the water table in rail track cross-section could be estimated for any track cross-section as demonstrated in Figure 2.61. There are numbers of uncertainties that can cause an error in result prediction. These limitations can be classified as:

1. Parameter *t* which represents the time after the rainfall. "t" has a negligible effect on the equation of calculating the water level. The decrease in water level "H", for "t" equal to 3600s (1 h) to 36000s (10 h), is calculated to be less than 1mm.
2. Moreover, the duration of rainfall has a significant effect on estimated water-table and discharge out of hydraulic flume container as presented in Chapter 5 of this study. As shown in Equation 2.19, there is no parameter representing this variable.
3. Different initial moisture content results in a different water level in short period of time. Time from previous rainfall or the initial water level before any precipitation has a significant effect on predicting H. There is no parameter in Equation 2.19 representing subballast initial moisture content.
4. Rushton and Ghataora (2009) assumed to have a uniform flow of water over ballast/subballast interface when subballast is fully saturated. Therefore, for ease of calculation, the ballast layer is neglected, and only permeability of this layer is considered. The precipitation of top of the ballast is also assumed to be equal to the intensity of flow in ballast/subballast boundary. Heyns (2000) stated the non-uniform distribution of rainfall over subballast when this layer is fully saturated. The uniform

distribution of rainfall over partially saturated subballast is also highlighted in an observation made during the laboratory test by Heyns (2000).

5. Heyns (2000) defined a new parameter as “subballast infiltration capacity” as previously described in Section 2.6.2. Having a rainfall intensity more than the mentioned variable, results in the creation of the flow in ballast/subballast boundary and rise in water table. Heyns (2000) indicated that when generated rainfall is more than subballast infiltration capacity, the water penetrates the subballast at the maximum rate of subballast infiltration capacity. Therefore, the rate of infiltration of water cannot be assumed to be equal to the rate of rainfall generated on top of ballast when having a water level above subballast layer.
6. Finding the numerical solution for second order differential equation as presented previously in Equation 2.19, requires the precise information for the boundary conditions. These boundary conditions are the depth of water level at x=0 (no flow boundary) and x=Max (end of the flume container). The water level at the mentioned locations were not measured by Heyns (2000) due to the settings of installed piezometers. Moreover, the thickness of flow at the outlets cannot be measured due to the presence of installed separator sheet. The separator sheet divides the outlet flows into two separate flow from ballast and subballast with different thicknesses. Therefore, the thickness of flow at the outlet cannot be replaced with numbers.

2.7.2 System discharge measurements

As previously noted, Heyns (2000) indicated that the system discharge in any rail track cross-section with partially saturated subballast could be estimated using Equation 2.23. There is large uncertainty that can breed error in result prediction. These limitations can be classified as:

1. Heyns (2000) compared the laboratory system discharge results with the developed theoretically prediction model. It is reported that there is a massive difference between laboratory results and prediction model. The collected flow out of the subballast is reported to be much greater than the predicted values.
2. As mentioned previously in Section 2.6.4.2, the precise estimation of water level is required in order to approximate the outlet capacity. The limitations and inconsistencies of water level calculation is previously covered in Section 2.7.1.
3. The proposed empirical solution for section discharge is only valid for partially saturated subballast layers, according to Heyns (2000).

2.8 Existing problems and novelty of the study

At this point, components of rail track structure were introduced in Section 2.1. The destructive effect of existing and remaining water in track structure and the necessity of effective track drainage were covered in Section 2.2. Selig and Waters (1994), Heyns (2000), Rushton and Ghataora (2009) and Li et al., (2016) all mentioned the importance of track drainage and the necessity of designing an efficient system to carry the entered water away from the track structure as swiftly as possible. They all noted the destructive effects of neglecting the construction of suitable track drainage system for rail track system. Selig and Water (1994) is highlighted the current high cost of maintenance. Moreover, different types of available track drainage systems and their implications and characteristics were mentioned comprehensively in Section 2.3. The amount of entered water to the system and methods of calculation and estimation of runoff water and design procedure for both surface and subsurface drainage systems were discussed in Section 2.4. The phenomenon of ballast fouling was introduced in Section 2.5. Different sources of fouling were highlighted, and methods of quantifying of this phenomenon are also covered in the following section. The negative effects of fouling on ballast and section behaviour were discussed in Section 2.5.4.

The damaging impacts of ballast fouling were noted as a reduction in ballast permeability, resistivity and stiffness and increase the rate of settlement. Heyns (2000), Rushton and Ghataora (2009a and 2009b) and Indraratna et al. (2011) noted the lack of information and, numerical and analytical studies on subsurface track drainage. Therefore, the movement of water through the dual-layer track cross-section was investigated in Section 2.6. The flow of water within the section is examined individually for each layer, and the type of flow in each layer is reported separately. The drainage behaviour of total cross-section was studied in Section 2.6.3, and the current methods for quantifying the outlet discharge out of subballast, and water level are presented comprehensively in Section 2.6.4.

A study by Heyns (2000) proposed hydraulic flume full-scale laboratory test is useful in the investigation of movement of entered water into the system, but it has the following limitations:

- According to Mulke (1981), the shape of the water level forms a curve from higher energy head towards lower energy head in a large granular material. Rushton and Ghataora (2009) and Youngs and Rushton (2010) confirm the complex shape of water level especially in the sections with a slope. According to Heyns (2000) and Rushton and Ghataora (2009b), the maximum height of water level is likely to move towards the middle of section as the section slope increases. Therefore, identifying the subballast critical rainfall intensity value q_c and subballast infiltration capacity q_n is not possible for further analysis as presented in Figure 2.59. Moreover, measurment of water level at no-flow-boundary is not possible due to the location of installed base piezometers
- The generated rainfall intensities over clean ballast samples were not in accordance with typical UK average rainfall data. The simulated rainfall intensity of Heyns (2000) can be classified into a very light rain and severe storm event which is not

representative based on UK average rainfall data which will be presented in Section3.2.5.1.

- The study by Heyns (2000) does not provide any information regarding the duration of generated rainfall. Eliminating the duration of rainfall limits the analysis of section behaviour to only times when it reaches the steady state condition. Based on the presented results by Heyns (2000) in Figures 2.64 to 2.67 this time can take from 3 min for subballast #1 to 95 min for subballast #3. The rainfall durations and intensities that caused a massive difference for the section to reach steady-estate condition is not compatible with the average UK rainfall values presented in Chapter 3.2.5.1.
- Conducted laboratory test by Heyns (2000) only assesses the flow of water within the clean ballast samples. Based on presented literature in Section 2.5 of this study, ballast fouling decreases the ballast permeability and hence the drainage capacity of this layer, considerably. Therefore, a full study on wider range of contaminated and clean ballast is recommended in order assess the impact of ballast permeability on rate of discharge and water elevation

  Piezometers lag-time analysis are not mentioned at all by Heyns (2000). Investigation the lag-time is helpful in predicting section behaviour when it is subjected to consecutive rainfall event with different intensity and duration.

The limitations of current methods of evaluating water level and track section discharge were highlighted comprehensively in Section 2.7. This study investigates the movement and effects of gravitational water on rail track section resulted from precipitation. The proposed study examined the water level and system discharge from the start of precipitation until the drainage of water from ballast and subballast. The quantity of entered water within the

system can be inspected base on the UK average rainfall data. The drainage behaviour of the section can be estimated based on fouling patterns in site adjacent area and can be helpful in the evaluation of runoff for designing any drainage system nearby. Finally, the amount of drained water from ballast and subballast can be quantified distinctively. As mentioned in Section 2.5, ballast fouling is inevitable so, investigation the effects of fouled ballast on drainage performance and the efficiency of surface and/or subsurface drainage system, as the ballast, progressively fouled can be named as another novelty of this study.

Therefore, it is concluded to perform a modified hydraulic-conductivity laboratory test in order to eliminate the mentioned limitations. The suggested modified hydraulic flume test is elaborated in Section 3.2, however, an investigation is needed in order to assess the effects of different fouling materials on hydraulic conductivity of ballast. Therefore, a series of constant-head hydraulic conductivity laboratory test is conducted prior to suggested hydraulic flume test which described comprehensively in Section 3.1.

Chapter Three Methodology

A number of hydraulic flume tests were conducted to investigate the movement of water through the railway track system and examine the effects of ballast fouling on the movement of water in eth ballast and the sub-ballast layers, a The apparatus and procedure used for this tests and associated tests on ballast and the subballast materials are all described in this chapter

3.1 Constant-head hydraulic conductivity test

3.1.1 Introduction

Before undertaking any tests in a flume, it was considered import to understand the effect of fines contamination on permeability of ballast. Since high permeability of ballast is high Constant Head permeability test was used (Head, 1992) for all materials: sands and gravels (sub-ballast) and both clean and fouled ballast

[say how many]tests were conducted on clean and fouled ballast samples to have a better understanding of ballast permeability at different levels of contamination. Although there are a number of methods of classifications and quantification of fouling of ballast, as discussed in Section 2.5.2, Relative Fouling Ratio was used to quantify ballast contamination for the reasons discussed in Section 2.5.2. Constant head permeability tests were performed on clean ballast and, ballast fouled with 5%, 10%, 15%, 20%, 30%, 40% and 50%fines , respectively, corresponding to clean, moderately clean, moderately fouled, fouled and highly fouled ballast, as shown in Figure 2.34. Tests are carried out on a large permeameter measuring 400mm in diameter and 1000mm in length. The sample materials to be tested was placed on 100mm layer of porous material (single size stone)with a geotextile separator, to prevent erosion of fines in to the lower layer of porous material and the outlet. A line diagram of the of the set-up is shown in Figure 3.1 and apparatus is shown in Figure 3.2 shown in



Figure 3.2 Constant head permeability test apparatus

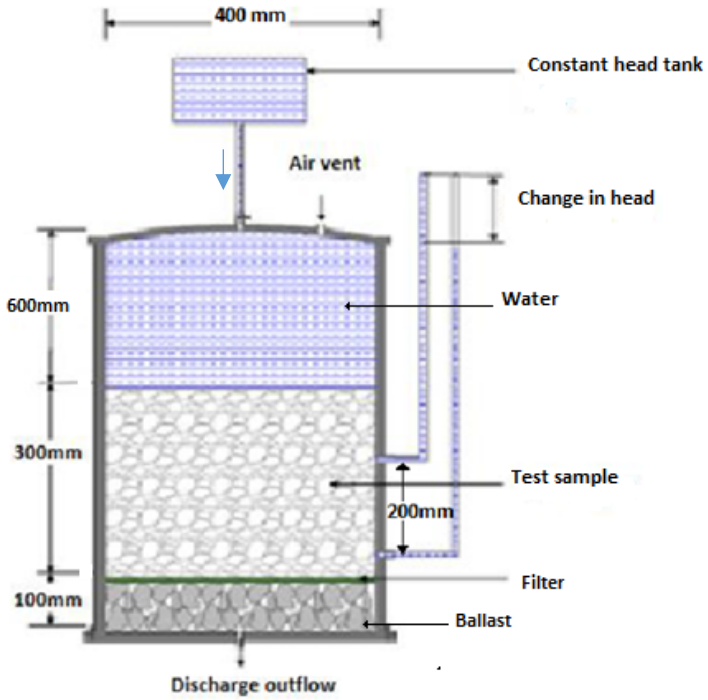


Figure 3.1 Permeability test set-up

The permeameter was designed in order to accommodate at least 300mm thick layer of ballast, which is the minimum thickness used by Network Rail within the UK Network Rail

(2005) Specification: RT/CE/C/9039. Measuring permeability values for large samples with are not covered by British Standards BS1377-6.1990, thus the laboratory tests are conducted in accordance with Australian Standards, AS 1289.6.7.3-1999. According to Marschi et al., (1972) and Indraratna et al. (1993), the diameter of the test sample should be at least 6 times the size of the largest size of ballast particle in order to minimise sample sizing effects. According to AS 1289.6.7.3-1999, the height of sample needs to be at least 5 times larger than the maximum particle size of the ballast. Ballast. The ballast used in this study was complied with the Railtrack line specification (RT/CE/S/006 Issue 3, 2000) and the Network Rail's new specification for ballast: BS EN 13450, (2003).

According to BR 13450, (2003), acceptable ballast for use by Network Rail must not exceed 63mm in size with no more than 0.8% finer than 1.18m; the majority of materials should be between 28 mm and 50 mm. Grading envelope of the ballast is shown in Table 3.1. It is required that the material must have a hard and robust texture with equally distributed angular shape with no dust.

Table 3.1 Allowable limits for ballast size distribution (After RT/CE/S/006 Issue 3, 2000)

Sieve size (mm)	***Percentage weight passing (%)***
63	100
50	100 – 97
37.5	63 – 35
28	20 – 0
14	2 – 0
1.18	0.8 - 0

Based on RT/CE/S/006 Issue 3 (2000), the selected ballast must comply with aforementioned lower and upper limits. FIVE tons of ballast was used in this study and it all complied with the above Specifications. The mean grading of the ballast used in this study is shown in Figure 3.3. Its particle size distribution was determined in accordance with accordance with BS 1377-2:1990.

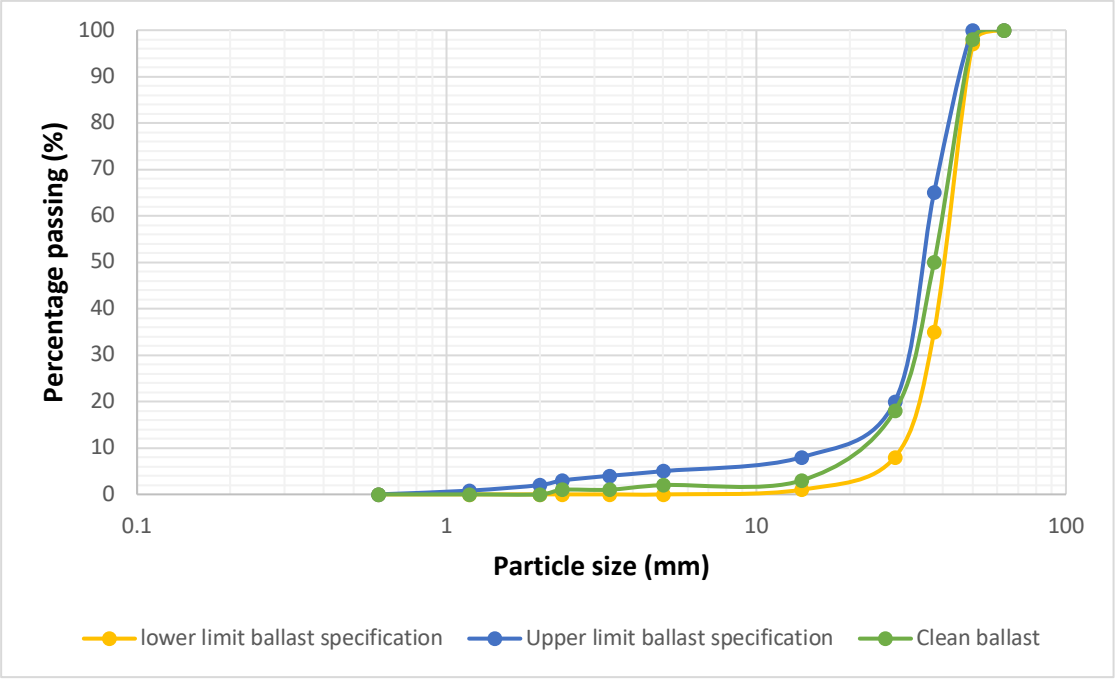


Figure 3.1 Particle size distribution of used clean ballast with allowable limits

3.1.2 Fouling material

The phenomenon of ballast fouling was described broadly in Section 2.5. The utilised fouling material is chosen in a way which corresponds to different sources of fouling as previously mentioned in Section 2.5.1. Proposed fouling materials are:

1. Quarry fines (to simulate ballast breakdown)
2. Kaolin clay(to simulate upward migration of fines from subballast/subgrade)

3. Sand (to simulated surface infiltration of fine materials)

Particle size distribution and engineering properties of materials used to foul ballast are shown in Figure 3.4 and Table 3.2 respectively. The grading tests were conducted in accordance with BS 1377-2:1990.

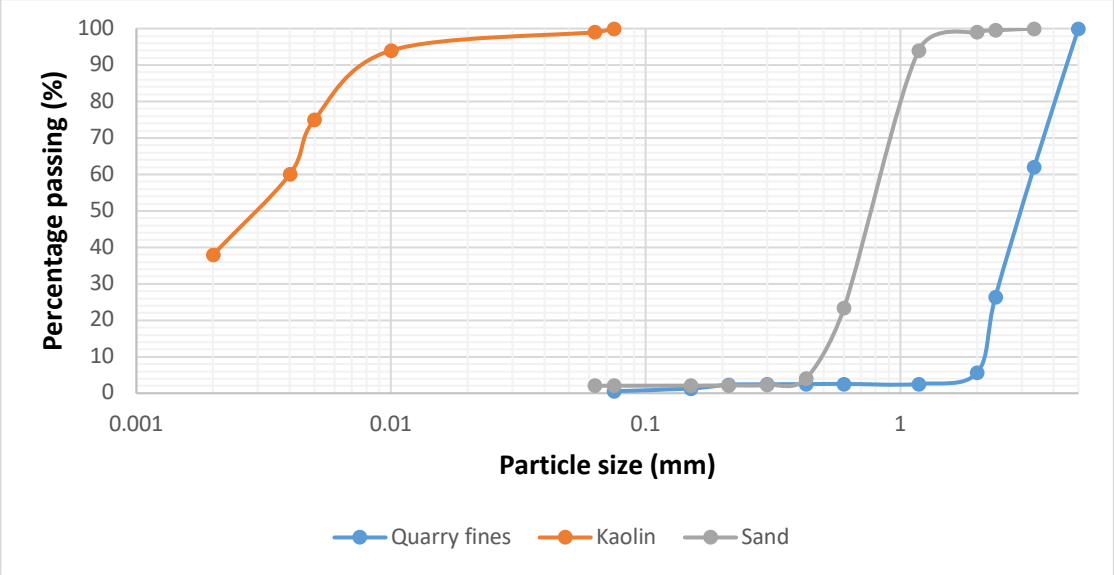


Figure 3.2 Particle size distribution for used fouling material

Table 3.2 Engineering properties of used material

Material	*Specific gravity*	*Liquid limit (%)*	*Plastic limit (%)*	*Passing 4mm sieve (%)*	*Passing 0.075 mm sieve (%)*	*Hydraulic conductivity (m/s)*
Clean ballast	2.71	NP	NP	0	0	0.32
Quarry fines	2.66	NP	NP	50	3	3.9×10^{-3}
Kaolin	2.6	54	36	100	100	1.5×10^{-9}
Sand	2.65	26.4	19.2	100	2	9.6×10^{-5}

The hydraulic conductivity of fouling materials was measured in accordance with BS 1377-6:1990.

3.1.3 Sample preparation

The following procedure was used to prepare clean ballast specimens for permeability tests:

The weight of total required ballast required to form the 300 mm thick ballast bed was measured. It was then split into three parts and each part was placed into the permeameter and compacted in 100mm thick layers using a vibratory hammer for 30 seconds (per layer).

According to Tennakoon et al., (2012) and Danquah et al., (2014), two different types of fouling procedure are available. The first method is" non-uniformly distributed ballast fouling". In this method, after compaction of clean ballast at three 100mm layers, fouling material is placed on top of ballast sample, followed by a compaction for 50 seconds by a vibrating hammer.

For "uniformly distributed ballast fouling", a given mass of fouling material is placed at the top of each 100mm layer of ballast following by a compaction of 50 seconds for each layer by a vibrating hammer. In this study," uniformly distributed ballast fouling" is used.

3.1.4 Testing procedure

Prior to performing any hydraulic conductivity test, the container is washed properly to eliminate the effect of different fouling material on the test result. As depicted in Figure 3.2, a layer of 100mm of ballast was placed on the base of permeameter plus a filter layer in order to avoid migration of fine fouling material towards the outlet. Then the container was positioned to insure it was level. Then the sample is placed uniformly around the

permeameter tank as described in Section 3.1.4. Then water pipe was connected to the tap for providing inflow. Permeameter was sealed at this stage and the permeater was completely filled with water to establish steady- state flow of water through the ballast

In order to investigate the effect of fouling on ballast permeability, three different fouling materials are tested. Fouling materials, their sources and characteristics described broadly in Section 3.1.3. A series of constant head permeability test carried out on clean to 50% fouled ballast with different fouling agents as mentioned in Section 3.1.3 (5%, 10%, 15%, 20%, 25%, 30%, 40% and 50%).

In order to minimise potential error in the results, constant-head hydraulic conductivity tests are conducted 3 times for each fouling ratio examined. According to Parson (1990), the condition of laminar flow is satisfactory for constant-head hydraulic conductivity test for ballast. Therefore, Darcy's law was adopted for calculating permeability values of each sample. Darcy's Law is discussed previously in Equation 2.11. During the test mass of flowing through the permeameter was recorded for fixed time intervals Flow rate (Q) was then calculated using Equation 3.1. (Head, 1992)

$$Q = \frac{M_w}{t.\rho_w} \tag{3.1}$$

Where:

Mw = mass of collected water at any required time intervals (g)

t = selected time intervals (seconds)

ρ_w= density of collected water which is assumed to be equal to1 (g/cm^3)

Permeability of the ballast was calculated using Equation 3.2. (Head, 1992)

$$K = \frac{Q.L}{\Delta h.A} \tag{3.2}$$

Where:

K = sample permeability (cm/s)

Q = outlet flow-rate (cm^3/s) _ determined using equation 3.1

L = length of sample (cm)

A = area of sample (cm^2)

Δh = head difference while measuring the outflow (cm)

The hydraulic conductivity of fouling materials was tested separately. Results for permeability values, as well as relative hydraulic conductivity and void ratio analysis, are explicated in Chapter 4.

The proposed plan of constant head permeability test is presented in Table 3.3. All tests were repeated three times to ensure repeatability. If any observation was not within about 10% of the two others, then the test was repeated.

Table 3.3 Proposed plan of constant-head permeability test

Ballast	***Relative ballast fouling ratio (%)***
Clean ballast	0
Quarry-fines fouled ballast	5
	10
	15
	20

Ballast	*Relative ballast fouling ratio (%)*
	25
	30
	40
	50
Sand fouled ballast	5
	10
	15
	20
	25
	30
	40
	50
Kaolin fouled ballast	5
	10
	15
	20
	25
	30
	40
	50

3.2 Hydraulic flume laboratory test

3.2.1 Introduction

It is essential to perform the laboratory hydraulic flume experiment to assess the effect of rainfall on the ballast, and subballast, of the railway track. The hydraulic flume experiment also assesses the capacity of drainage of the layers being tested. Conducting hydraulic flume test illustrates the movement of water through any railway section while having different ballast fouling index and other properties such as different slopes, and rainfall characteristics. At the end of each test, water table at each time interval could be measured, and the total amount of drained water out of each layer (ballast and subballast) can be measured at any required time interval. The flume container is shown in Figure 3.5.

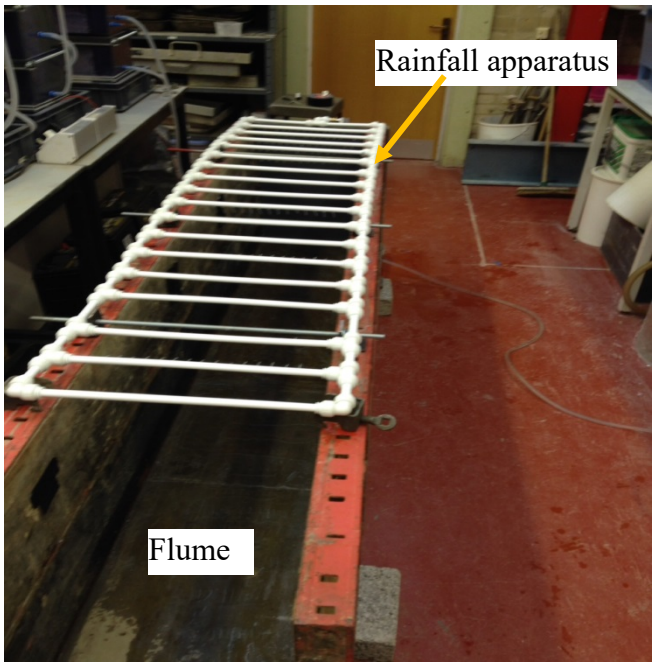


Figure 3.3 Flume with rainfall making apparatus container

As shown in Figure 3.5 and 3.6, the flume test apparatus consists of a steel/timber covered flume container for ballast and subballast with appropriate dimensions, which was closed at one end and open at the other end to let the outflow to be collected. Three pieces of steel ribs are welded on top of the flume in order to hold the steel channel with the spacing of 400mm.

Dimensions were chosen in such a way that flume can represent the cross-section of railway track between two sleepers with a minimum length of the distance from centreline to shoulders. The minimum length was 1.8m which is equal to half of rail track in length plus shoulders, the minimum depth of 0.45m for low-speed train and the width of 0.4 m as the spacing between sleepers. Flume dimensions are presented in Figure 3.6. (The track dimensions are based on Network Rail Specification: RT/CE/C/9039, 2005)

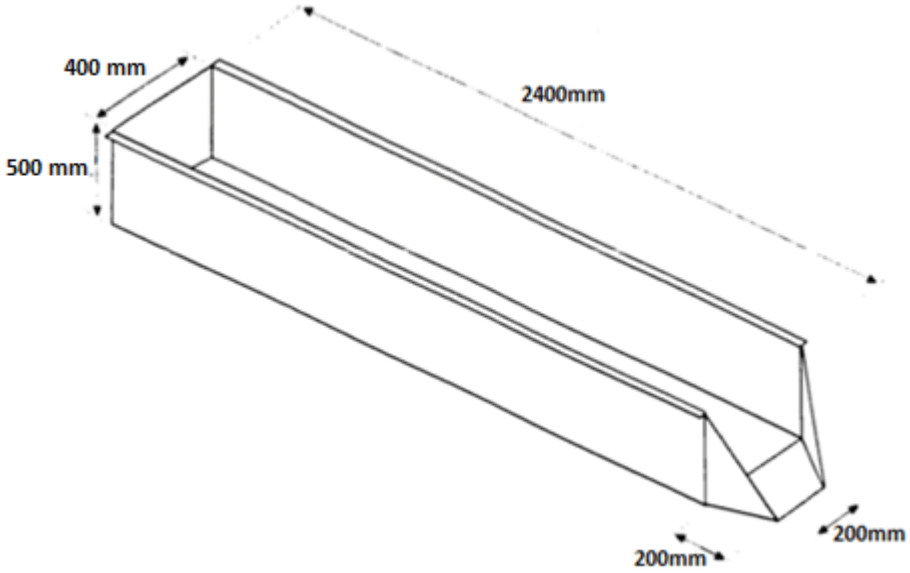


Figure 3.4 Steel container with dimensions

The flume test set-up, in addition to the flume comprised a simulating rainfall system, water level monitoring system consisting of 18 piezometers and a hydraulic jack for changing the slope from 0% to the maximum of 5% are provided.

As shown in Figure 3.7, piezometers were installed at each of the six location at three different elevations in order to measure water levels: at the base of the container, at the ballast subballast interface (150mm from base) and at the middle of the ballast (300mm from base)

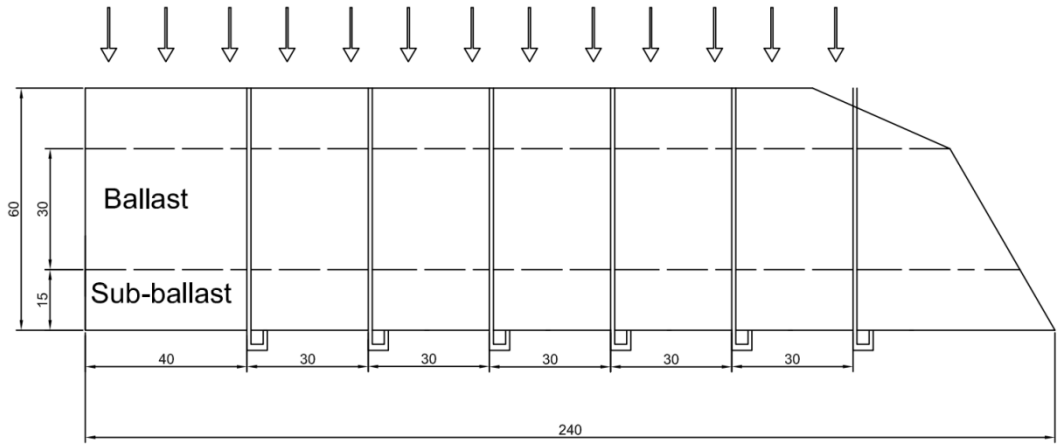


Figure 3.5 Location of piezometers (all the dimensions are in centimetres)

An impermeable separator sheet was placed ballast/subballast interface between the Piezometer6 (right hand side of Fibure3.7) and the end of the ballast in order to separate the flows occurring above and below the ballast/subballast interface. Two different flows are being collected in two different containers and mass of collected flows can be measured at time intervals.

3.2.2 Subballast

The different functions and filtration ability of this layer were indicated previously in Section 2.1.2.2. In this section, it is tried to elaborate engineering characteristics and placement of the used subballast.

3.2.2.1 Particle size distribution

According to the Network Rails Specification RT/CE/S/033 (1998), the subballast should be dense graded aggregate, preferably granite or limestone, and must comply with following upper and lower limit presented in Table 3.4.

Table 3.4 Gradation of subballast material (After Network Rail, Specification RT/CE/S/033, 1998)

Sieve size (mm)	***Percentage weight passing (%)***
14	100
2.36	100 – 80
1.18	90 – 70
0.600	76 – 48
0.300	60 – 24
0.150	42 - 5
0.075	10 - 0

Particle size distribution of chosen subballast is presented in Figure 3.8. Subballast is placed at its maximum dry density. A compacted 150 mm layer of sub-ballast was placed on the bed of flume at its optimum water content. In order to prevent the beneath layer from being washed, a 50 mm*50 mm piece of permeable geotextile layer is needed to be installed over each piezometer conduit. Placing the geotextile layer prevents subballast particles from washing into the piezometers resulting in blockages and erroneous flow measurements.

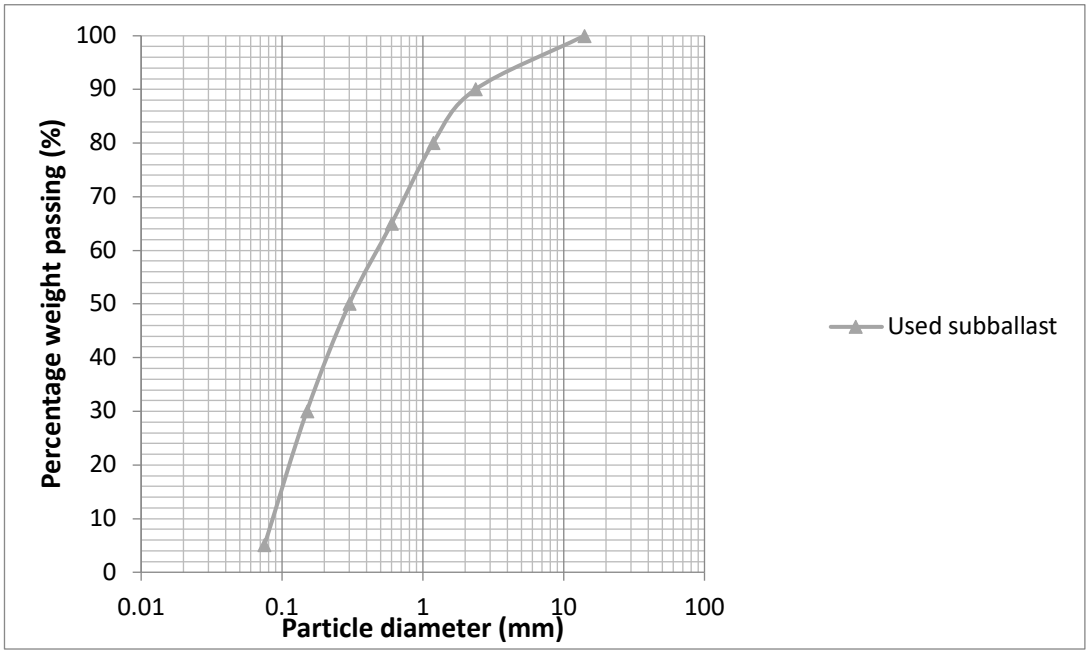


Figure 3.6 Particle size distribution of used subballast

3.2.2.2 Dry density

The compaction test is conducted on subballast prior to the hydraulic flume testing. The maximum dry density of 1.95 g/cm^3 for subballast particles is measured according to BS 1377-4:1990. Dry density against water content for used subballast presented in Figure 3.9. The used subballast is picked from a single batch.

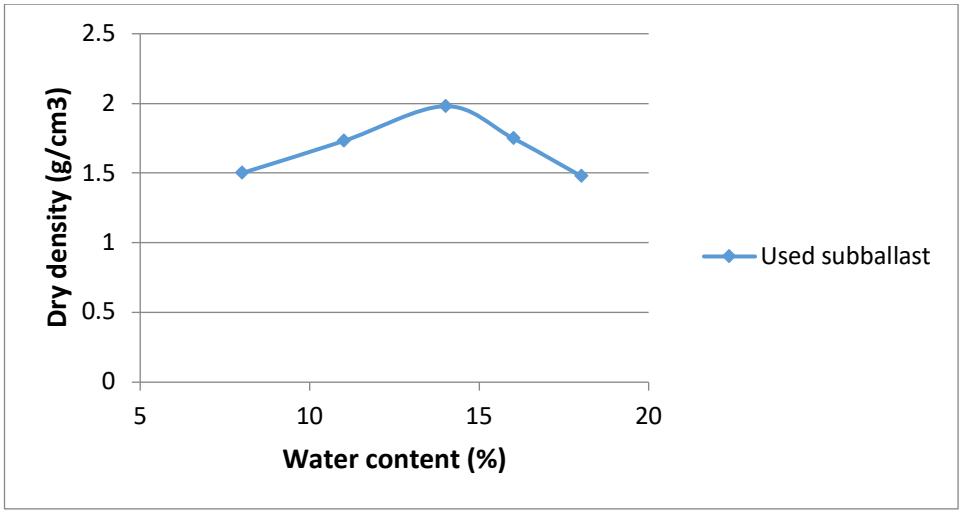


Figure 3.7 Maximum dry density for used subballast

3.2.2.3 Hydraulic conductivity

The hydraulic conductivity of used subballast was measured before starting hydraulic flume laboratory test. The permeability of subballast was determined to be 4.6×10^{-5} m/s

Table 3.5 Used subballast permeability values

Material	Permeability (m/s)	Permeability (m/day)
Used subballast	4.6×10^{-5}	3.9

3.2.2.4 Liquid and plastic limits

Liquid, and plastic, limits values of the subballast were determined in accordance with BS 1377-2:1 990 and are presented in Table 3.6.

Table 3.6 plastic and liquid limit values of the subballast materials

Material	Liquid limit (%)	Plastic limit (%)
Used clean ballast	20	8

3.2.2.5 Specific yield

Specific yield of the subballast was 2%. It was determined in accordance with ASTM D6836-02 .

3.2.2.6 Subballast placement

The weight of total required subballast is measured initially. 50mm of subballast is weighed and placed in the bed of large flume container as shown in Figure 3.10. The sample is followed by compaction with a compactor hammer for 30Sec. Special care is needed during the compaction of the subballast first layer in order to avoid any damage to installed piezometers. Another layer of 50mm of ballast is placed on top of the first layer of subballast after measuring its weight. This layer was subjected to another compaction via compactor hammer for 30Sec. This procedure was repeated for the third and last layer of subballast.

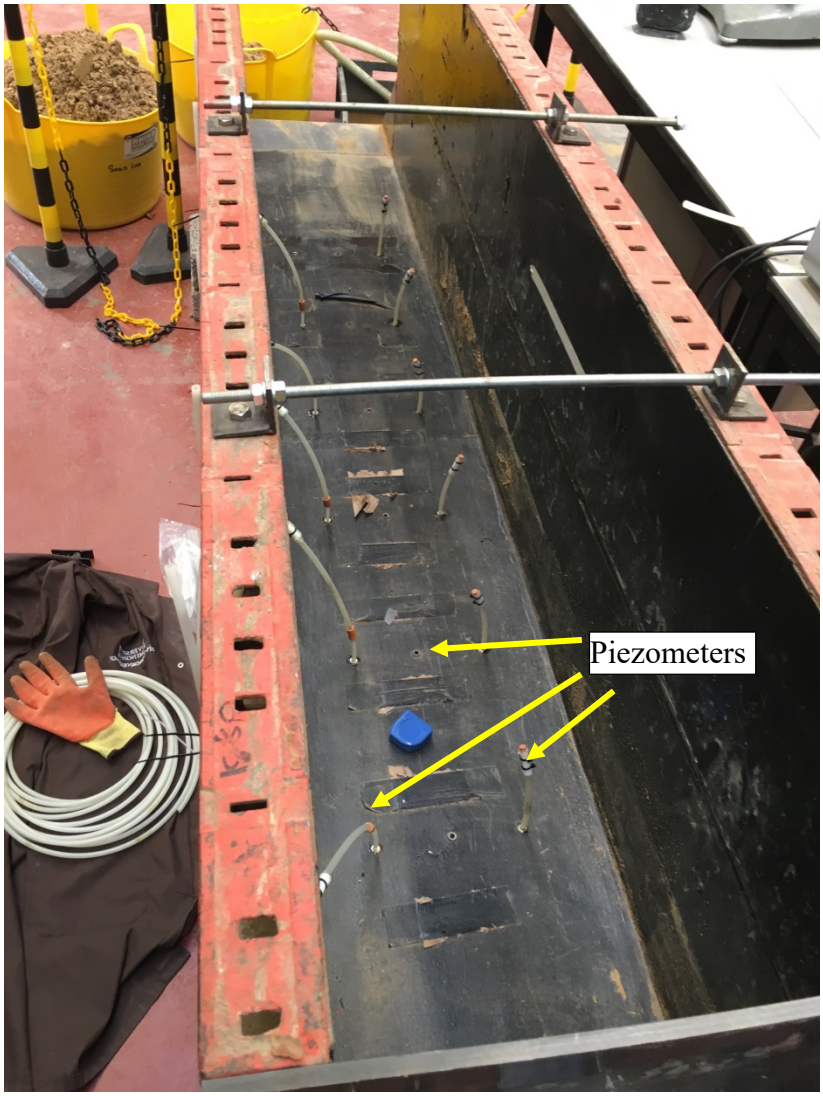


Figure 3.8 Flume showing piezometers

3.2.3 Ballast and fouling material

The different functions of ballast were indicated previously in Section 2.1.2.1. This section elaborates on chosen ballast and fouling materials engineering characteristics and placement. Same ballast was used for both the hydraulic flume test and permeability tests Particle size distribution

Particle size distribution of the ballast and the fouling materials are shown in Figure 3.1. The grading tests were conducted in accordance with BS 1377-2:1990.

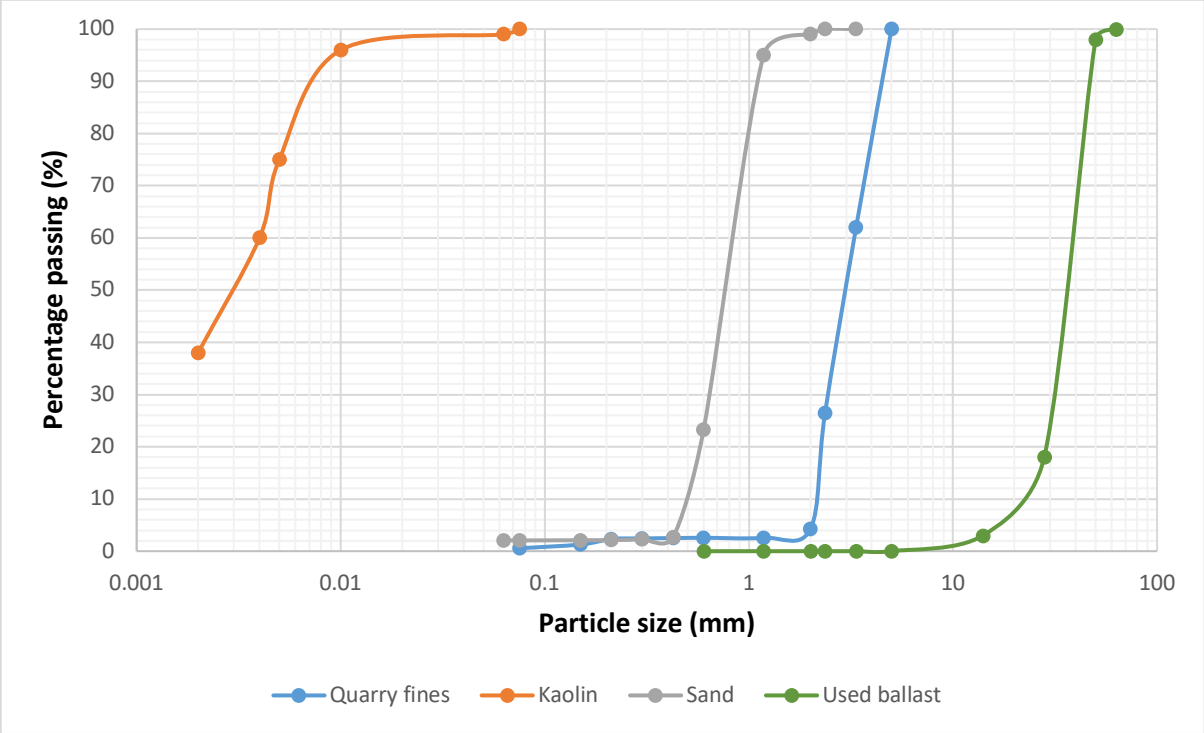


Figure 3.9 Particle size distribution of used ballast and fouling materials

3.2.3.1 Dry density

Compaction tests were conducted on fouling material in according with BS 1377-4:1990 to determine the maximum dry density and optimum moisture content prior to the hydraulic flume tests. These properties are listed in Table 3.8.

Table 3.7 Used fouling material's maximum dry density values

Material	Maximum dry density (g/cm^3)
Quarry-fines	1.98
Kaolin	1.58
Sand	2.04

3.2.3.2 Hydraulic conductivity

The hydraulic conductivity of used ballast fouling agents was measured before hydraulic flume testing. Permeability laboratory test conducted on fouling materials using constant-head method for quarry-fines particles and falling-head method for kaolin particles according to BS 1377-6: 1990. Measured permeability values for clean ballast and fouling materials are presented in presented in Table 3.9.

Table 3.8 Used materials measured permeability values

Material	Permeability (m/s)	Permeability (m/day)
Clean ballast	0.32	27648
Quarry-fines	3.9×10^{-3}	336.9
Sand	9.6×10^{-5}	8.29
Kaolin	1.5×10^{-9}	0.001

3.2.3.3 Liquid and plastic limits

Liquid and plastic limits values on used fouling material are presented in Table 3.10. The conducted tests are in accordance with BS 1377-2:1990.

Table 3.9 Used material plastic and liquid limit values

Material	Liquid limit (%)	Plastic limit (%)
Clean ballast	NP	NP
Quarry-fines	NP	NP
Kaolin	54	36

3.2.3.4 Ballast placement

Ballast was placed to a predetermined density. This was achieved by compacting a known weight of ballast in 100mm layers compacted for 30 seconds each. A typical view of the with compacted ballast is shown in Figure 3.12.



Figure 3.10 hydraulic flume with ballast and subballast layer

The procedure of fouling the ballast is described comprehensively in Section 3.1.4. The first layer of ballast (100 mm) is placed on top of subballast subjected with compaction for 50sec. For the preparation of the fouled ballast samples for flume test, uniformly distributed ballast fouling method is used. Depending on the type of ballast (clean/fouled), a measured amount of fouling material (quarry fines/kaolin) was added on top of the first 100mm ballast layer followed by application of compaction for 50sec. The second and third layers of ballast were placed on top of the first layer in a similar way. The total thickness of ballast was 300mm.

Figure 3.13 shows a uniform distribution of kaolin on highly fouled sample (30% relative ballast fouling ratio) in middle layer.

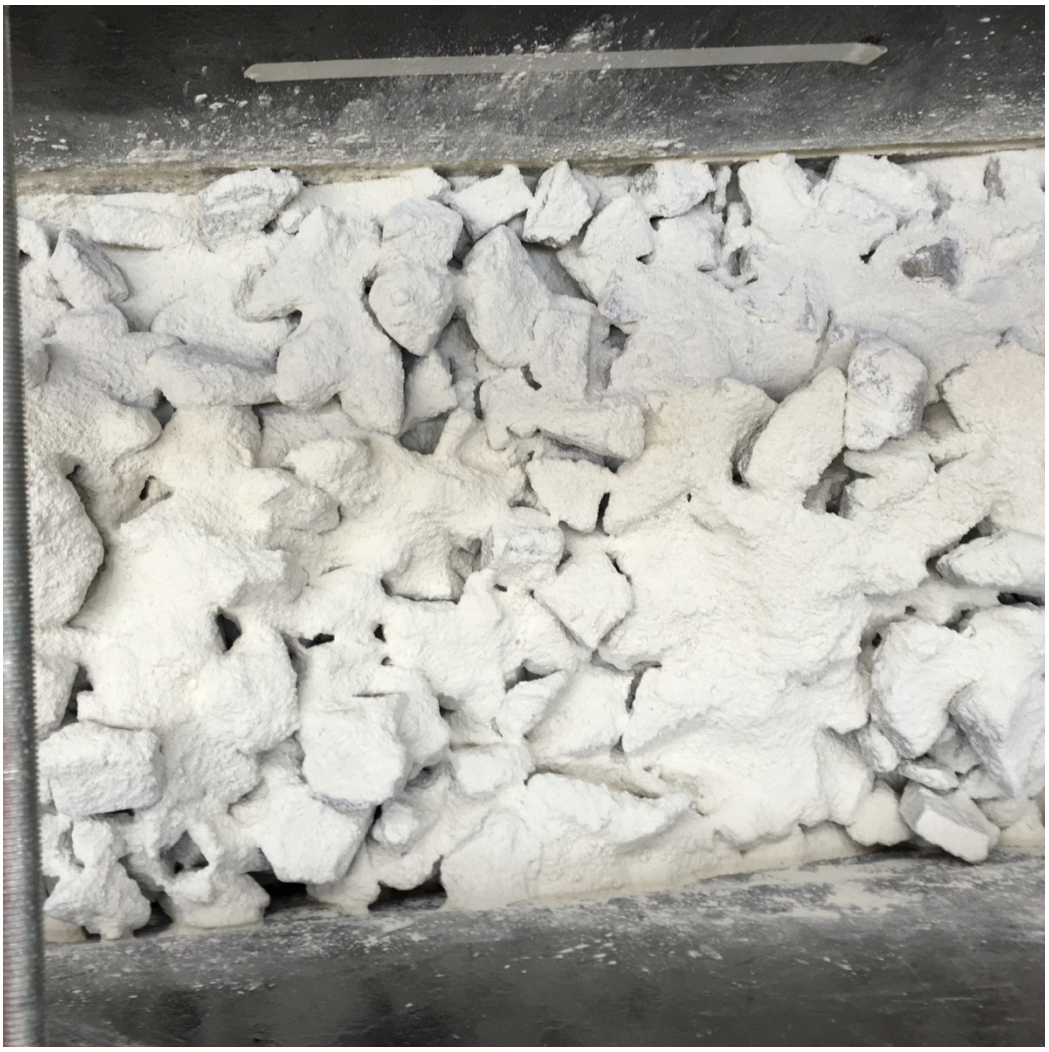


Figure 3.11 Uniform distribution of kaolin on middle layer of highly fouled sample

3.2.4 Separator sheet

An impermeable separator sheet was installed on the ballast/subballast interface, in order to separate the flow of water out of the mentioned layers. Two different flows are collected in two different containers. The mass of collected flows is measured by using a scale at any time intervals. As shown in Figure 3.14, water collected from both sides of the sheet can be accumulated from different buckets.

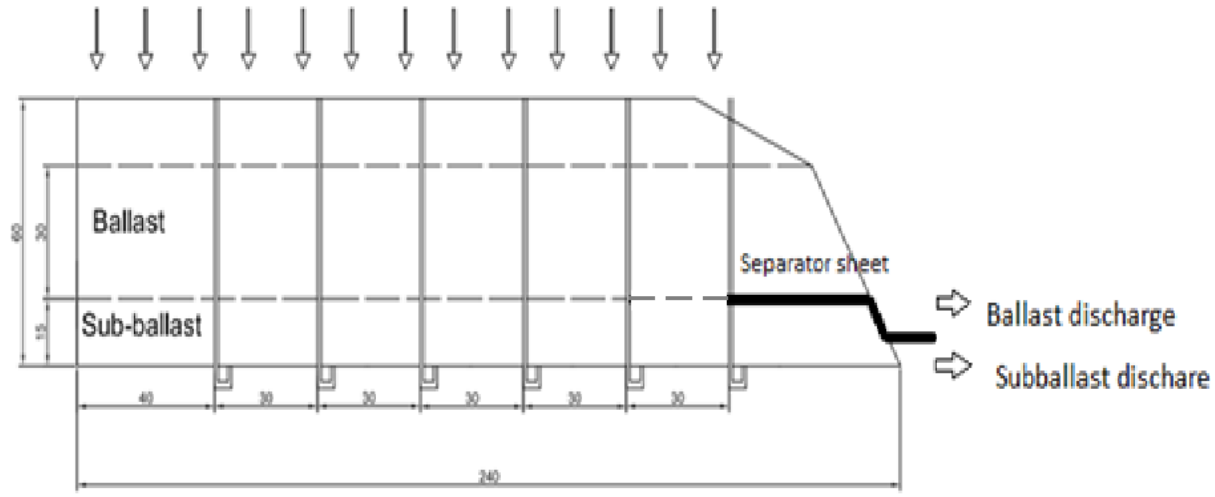


Figure 3.12 Location of the installed separator sheet (all the dimensions are in centimetres)

3.2.5 Rainfall

By having a flow-meter which is shown in Figure 3.15, rainfall intensity can be controlled. By using flow-meter, the inlet from 0.4 to 2.8 L/min can be used to generate the rainfall intensities from 33 to 100 mm/hr for the required duration. Calibration of the device is explained as follows:

1. Connect the rainfall device to water tap
2. Allow the device to simulate rain for 1min to achieve uniform rainfall
3. Close the other end of the flume in order to keep the water within the apparatus
4. Allow rain falls for preferential period of time
5. Measure the height of rain from the base of the flume
6. Divide the height of the collected rainfall to the chosen period of rainfall in Stage 4

The answer is presented in the scale of mm/h while the inlet flow-metre was generating the flow in the scale of L/min.



Figure 3.13 Flow-meter

3.2.5.1 Rainfall characteristics

Heyns (2000) believed that characterising rainfall in any site location is critical for measuring the rate of flow, runoff, or discharge out of the structure. Knowing rainfall characteristic is the first step for calculating the total amount of water that can enter the system in a certain period of time.

According to Heyns (2000), rainfall needs to be characterised in terms of:

1. Intensity

2. Duration
3. Frequency of occurrence

Three rainfall intensities used for this study were selected based on the average UK rainfall intensities with return periods of 5, 10 and up to 100 years. The rainfall intensities used were:

1. 33mm/h which represents rainfall intensity in the UK for 5-year return period for 0.5 hour (Rushton & Ghataora, 2009)
2. 45mm/h which represents rainfall intensity in the UK for 10-year return period for 1 hour (Ward & Robinson, 1990)
3. 100mm/h which represents rainfall intensity in the UK for 100-year return period for 1 hour (Ward & Robinson 1990)

This study focuses on the movement of water through the ballast and subballast located on top of the impermeable subgrade. The rainfall characteristics are derived from the IDF curves based on the UK average rainfall. The rainfall generated was intense enough to create a flow at ballast/subballast interface. Moreover, the rainfall lasted long enough to enable flow to reach the steady-state conditions. Finally, the reoccurrence interval was compatible with design lifetime for different track different component according to ARUP (2008). The creation and condition of flow at ballast/subballast interface are discussed in Chapter 5.

3.2.5.2 Generating rainfall

Following the initial desk study, a network of 10 mm PVC pipes was used to supply water to flow-meter and then nozzles. 240 nozzles in 16 rows are used to provide rainfall on top of the sample (clean or fouled ballast). Rainfall device and nozzles are shown in Figure 3.16.



Figure 3.14 Rainfall device nozzles used for generating typical uniform rainfall

3.2.6 Bed Slope

As described in Section 3.2.1, the slope of flume cross-section could be changed by lifting the closed end of the flume using hydraulic jacks as shown in Figure 3.17. A roller support is welded to the other end of the container in order to keep the structure stable while changing the slope, see Figure 3.18.

Tests were conducted with horizontal bed and with it sloping at up to the maximum of 1:20 or 5%.

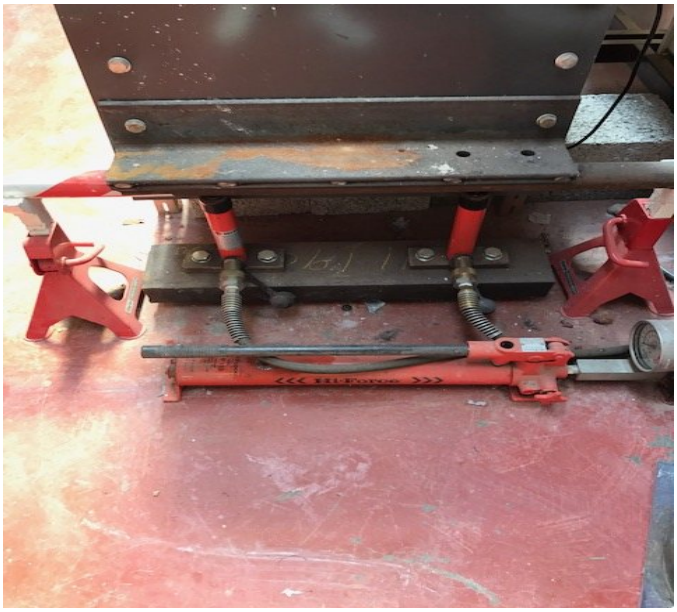


Figure 3.15 Hydraulic jack used to change the slope



Figure 3.16 Roller support at the open end of the flume to enable changing bed slope

3.2.7 Piezometer readings and data collection

In addition to rainfall intensity, duration and bed slope, water levels and flow data (from ballast and subballast layers was also collected). Time "0" refers to the ceasing of rainfall. In

this study, after rainfall ends, water level readings and ballast/ subballast flow readings are taken at 0, 0.5, 1, 2, 3 and 4 hours after cessation of rainfall.

3.2.7.1 Water level data

Water level readings at a ranges of times were taken from piezometers. this information was used to assess changes in head and flow during the test.

Initially water levels were measured using a ruler and accuracies of about ±5mm could be achieved as number of piezometers had to be read manually. Water level measurements were made using a photographic images and triangulation. A C++ programme was written to calculate water levels from photographs. Water levels could be read to accuracy of ± 0.5 mm using thisF technique.



Figure 3.17 Red arrows are showing known distance measurements for piezometer readings using pictures

3.2.8 Testing procedure

The laboratory hydraulic flume experiment needs to be performed in order to assess the effect of rainfall on ballast and sub-ballast of railway track and permeability of the aforementioned layers. Figure 3.20 shows the flume loaded with clean ballast.



Figure 3.18 Flume apparatus loaded with subballast and clean ballast

It is concluded that up to 206 flume tests needs to be conducted. Variables includes:

- Ballast type (clean or fouled with different relative fouling ratio and different fouling agents)
- Slope of flume
- Rainfall intensity
- Rainfall duration

The three different fouling material used in this experiment, which were introduced in Section 3.1.2. Engineering properties of utilised materials are tested, and results are presented in Table 3.2.

At the beginning of the experiment, the water pipe shown in Figure 3.21 is filled with water came from the tab. Using the flow-meter, the flow is adjusted to the desired amount. Two separate buckets are used to collect water from ballast and subballast. A separator sheet (filter) is used to separate the collected flow from ballast and subballast. Separator sheet starts from Piezometer 6 and ends at the end of the flume. This sheet separates the flow from the ballast and subballast. Piezometer 6 provide readings adjacent to the separator sheet, and water collected from both sides of the sheet can be accumulated from different buckets.

At the end of the rainfall period (0.5, 1 or 2 hours depending on the test) the pipe is disconnected from the tab, and as soon as the rainfall ends, readings must be taken from each piezometer. After each hour (up to 4 hours), the readings need to be recorded.

Having water elevation at each hour, the water table can be plotted against the distance from the centreline, which is discussed and analysed extensively in Chapter 5.

By knowing the total amount of entered water from the rainfall device and also the amount of collected water out of the ballast and subballast, the cumulative flow of each layer can be

plotted with respect to time. Also, total gravitational remaining water at the flume can be plotted with respect to time, which is discussed and analysed in Chapter 5.



Figure 3.19 Rainfall devices with flow-metre

The proposed plan of constant head permeability test is presented in Table 3.111. All tests were repeated three times to ensure repeatability. If any observation was not within about 10% of the two others, then the test was repeated

Test matrix for flume test is presented in Table 3.11.

Table 3.10 Proposed plan of flume test

Ballast	***Relative ballast fouling ratio (%)***	***Slope (%)***	***Rainfall intensities (mm/h)***	***Rainfall duration (h)***
Clean ballast	0	0	33 - 100	0.5 – 2
		1		0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
Ballast fouled with kaolin	10	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	15	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	20	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	25	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	30	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2

Ballast	*Relative ballast fouling ratio (%)*	*Slope (%)*	*Rainfall intensities (mm/h)*	*Rainfall duration (h)*
Ballast fouled with quarry fines	10	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	15	0	33 – 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	20	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	25	0	33 - 100	0.5 – 2
		3		0.5 – 2
		5		0.5 – 2
	30	0	33 - 100	0.5 – 2
		3		0.5 - 2
		5		0.5 – 2

Chapter Four RESULTS AND DISCUSSIONS FOR CONSTANT-HEAD HYDRAULIC CONDUCTIVITY TEST

A total number of 75 constant-head hydraulic conductivity tests were conducted on clean and fouled ballast samples. Fouling agents introduced and elaborated comprehensively in Section 3.1.3. Used ballast and its characteristics were mentioned in Section 3.1.2. Fouling materials characteristics and fouling procedure explained in Section 3.1.3. Sample preparation and testing procedure were illustrated separately in Sections 3.1.4 and 3.1.5 respectively. A list of all conducted permeability tests was presented in Table 3.3. In this chapter, results and discussion for constant-head hydraulic conductivity is presented. An investigation on hydraulic conductivity of the fouled sample is undertaken which follows by a study on changes in permeability values. A set of calculations is carried out in order to achieve void ratio on clean ballast and fouled samples while increasing the fouling index which is presented in Section 4.3. Finally, observations made during the test are reported in the last section of this chapter.

4.1 Ballast hydraulic conductivity

As shown in Figure 4.1, accumulation of any types of fouling materials results in a decrease of the permeability of sample. It is also demonstrated that the reduction in the permeability values for kaolin-fouled ballast samples are more than sand-fouled and quarry fines-fouled ballast samples. The difference in measured permeability values is mainly because of particle size distribution of fouling agents. As presented in Figure 4.1, particle size distribution of fouling agent has adverse relation with measured hydraulic conductivity. In another word, the bigger the fouling material particle size is, the less reduction in sample permeability values measured. According to Indraratna et al. (2011), the mentioned difference in measured hydraulic conductivity is also related to the fouling agent's specific gravity. The advantage of

quantifying ballast fouling based on "relative ballast ratio" is considering fouling materials inherent properties rather than existing mass and volume-based methods of identifying fouling called "Fouling index" and "Percentage void contamination" respectively. According to Danquah et al. (2014), relative fouling index reflects drainage characteristics of both ballast and fouling agent. Therefore, the difference in permeability values with respect to different fouling agents can be interpreted as the massive particle size difference between the ballast and the fouling material and also different specific gravity of fouling materials.

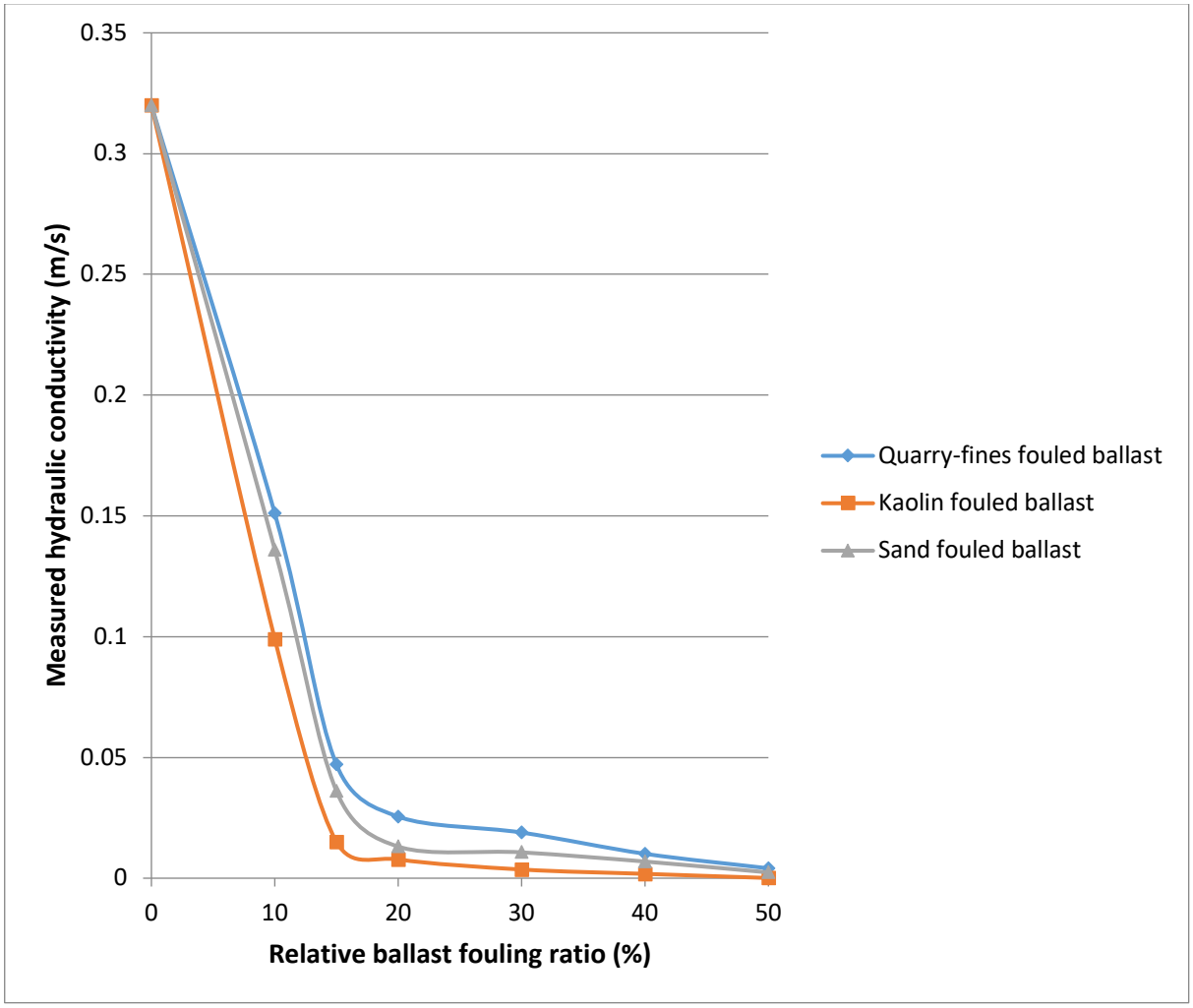


Figure 4.1 Measured permeability values for fouled ballast samples

Figure 4.1 shows a significant drop in the ballast permeability values as the ballast starts to get progressively fouled around 10% to 20% relative fouling ratio. Danquah et al., (2014) classified the fouling pattern into five different categories:

1. Clean
2. Moderately clean
3. Moderately fouled
4. Fouled
5. Highly fouled

Figure 4.2 shows a schematic view of the sample as it progressively fouled.

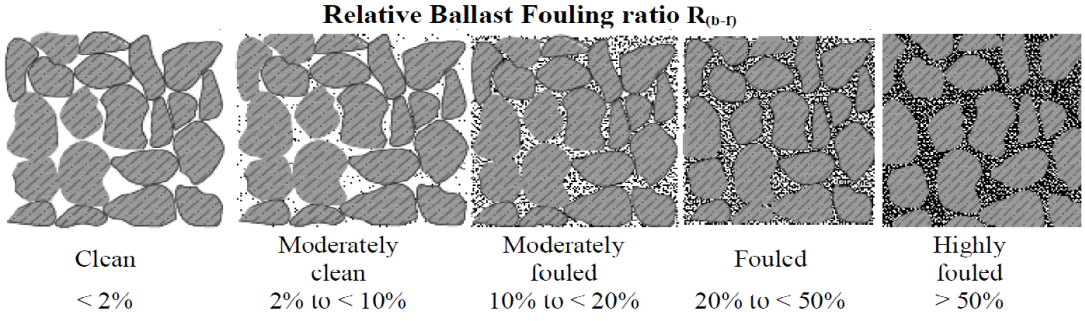


Figure 4.2 Schematic view of ballast fouling based on relative ballast fouling (Danquah et al, 2014)

As depicted in Figure 4.2, the mentioned sharp drop in ballast permeability values is located in "moderately fouled "area. This significant reduction is mainly because of the initial high void ratio of clean ballast. As the amount of fouling increases, the fouling material starts filling the existing gaps between large ballast particles. The fouling materials start moving downward towards the bottom of the tank with the help of initial compaction and flow of water during the tests as demonstrated in Section 4.4. Downward movements of the fouling material continue until the point that all the gaps and voids between lower ballast layers are

filled. At this stage, the permeability of sample is significantly reduced. Sussmann et al., (2012) reported this phenomenon as “ballast breakpoint”. According to Figure 4.1, for conducted laboratory tests, the ballast breakpoint is the relative fouling index of 15% to 20% which is the transition between moderately fouled and fouled ballast based on Figure 4.2

As the sample progressively fouled after ballast breakdown point, the additional fouling material starts filling the existing gaps in between the second and the third layers of ballast completely. By adding more and more amount of fouling material, ballast approaches to the point that this layer tends to act as the fouling agent in terms of permeability specifically for coarser fouling agents such as quarry-fines particles. The measured permeability of fouled sample starts to decrease to the point that permeability of fouled ballast sample is equal to the fouling agent for quarry-fines fouled samples. Tennakoon et al., (2012) reported the same scenario in their investigation while using the coal and clayey sand as the fouling materials and quantifying the ballast fouling by percentage void contamination. Figure 4.3 shows the measured hydraulic conductivity for fouled ballast and ballast fouling materials.

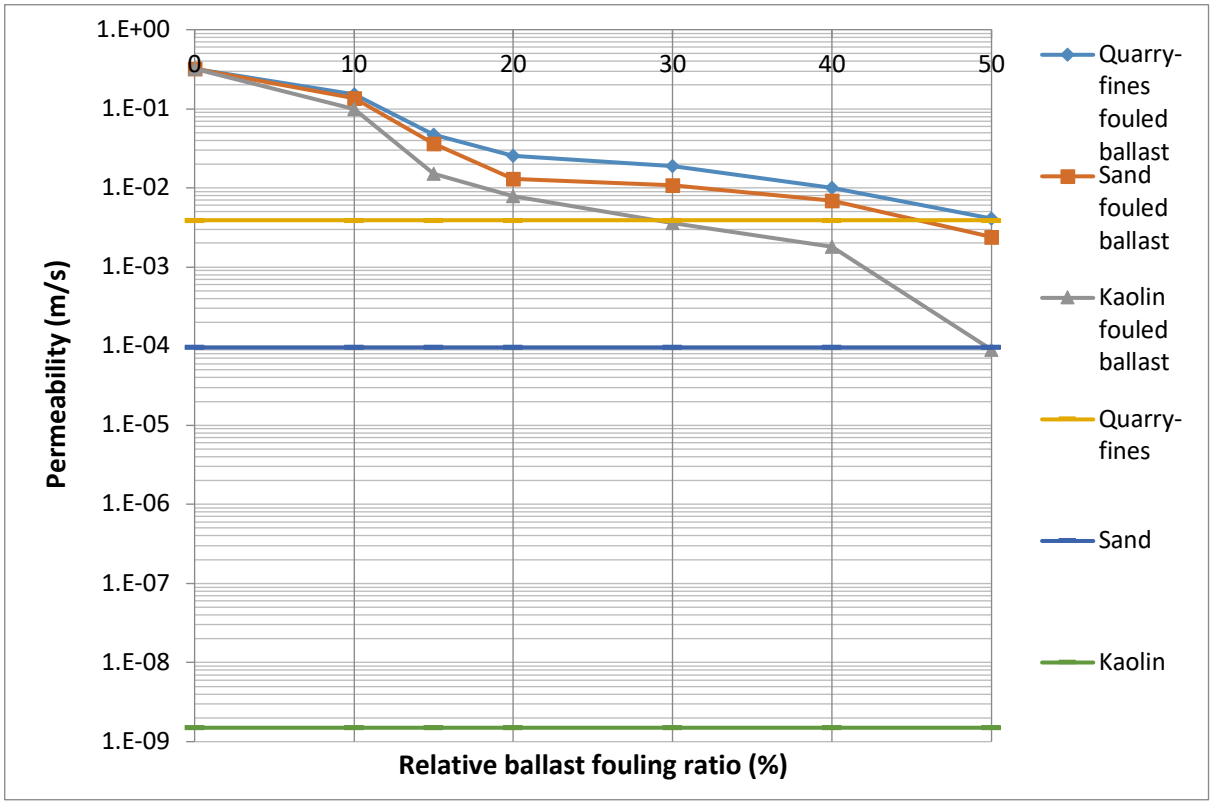


Figure 4.3 Measured permeability values for fouled ballast and fouling agents

4.2 Ballast relative hydraulic conductivity

Relative ballast hydraulic conductivity is defined as the proportion of permeability of clean ballast to the permeability of fouled ballast. Relative hydraulic conductivity is an indication of a change in the sample permeability as the fouling index increases. The ability of ballast drainage can be represented by the mentioned parameter. (Indraratna et al., 2010a)

Figure 4.4 shows the ballast relative hydraulic conductivity increases as the fouling index increase. The permeability value of 10^{-4} m/s for ballast is assumed to be "poor drainage condition" by Indraratna et al., (2010b). Knowing the permeability of clean ballast is equal to 0.32 m/s in conducted tests; therefore, relative ballast hydraulic conductivity of 3200 is assumed to be critical for ballast. This number is located in highly fouled ballast area based on Figure 4.2. So, the presented results in Figured 4.3 and 4.4 satisfy the proposed critical permeability value by Indraratna et al., (2010b) for maintenance and tamping purposes.

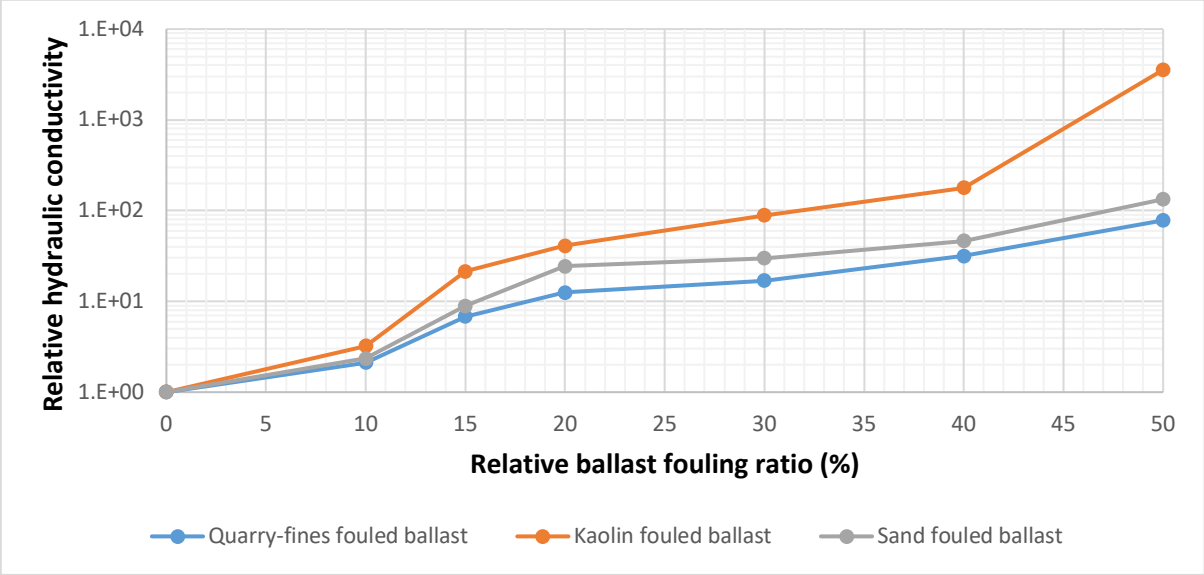


Figure 4.4 Calculated relative hydraulic conductivity

The effect of the presence of finer fouling materials on ballast permeability is also represented in Figure 4.4. By increasing the fouling index from clean ballast to maximum of 50% relative ballast fouling ratio, kaolin-fouled ballast has the least permeability values with respect to sand-fouled ballast samples at each measured interval. On the other hand, quarry fines-fouled ballast has the most measured permeability values at the same intervals which comply with particle size distribution of fouling materials. As presented in Figure 4.4, the permeability of fouled samples reduced up to 20 times of its initial value at ballast breaking point. By increasing the ballast relative fouling ratio, the reduction of ballast permeability values is reported to be up to 3500 times of its initial value for kaolin fouled samples, 130 times for sand fouled samples and 78 times for quarry fines fouled samples.

4.3 Ballast void ratio and relative void ratio

A set of mass and volume-based calculation was carried out to achieve the void ratio of a sample at any stage of fouling, which is displayed in Figure 4.5.

As presented in Figure 4.5, the initial void ratio of clean ballast was equal to 0.7. By adding fouling material, the void ratio starts to reduce. The reduction in kaolin-fouled ballast void

ratio is more than sand-fouled ballast sample, and this is more than quarry fine-fouled ballast, which can be interpreted due to ascending particle size of fouling agents, respectively. As previously mentioned, calculation of void ratio is based on the volume of the sample. Having lower density for material naturally, results in having lower specific gravity. Therefore, by the required fouling ratio for each sample or knowing the required mass of fouling agents, the volume of occupying material has indirect effects. The void ratio of a sample can be defined as total volume of the void to total volume of solid particles according to Head, (1992). Hence, the denser material has less effect on reduction of the initial void ratio as shown in Figure 4.5.

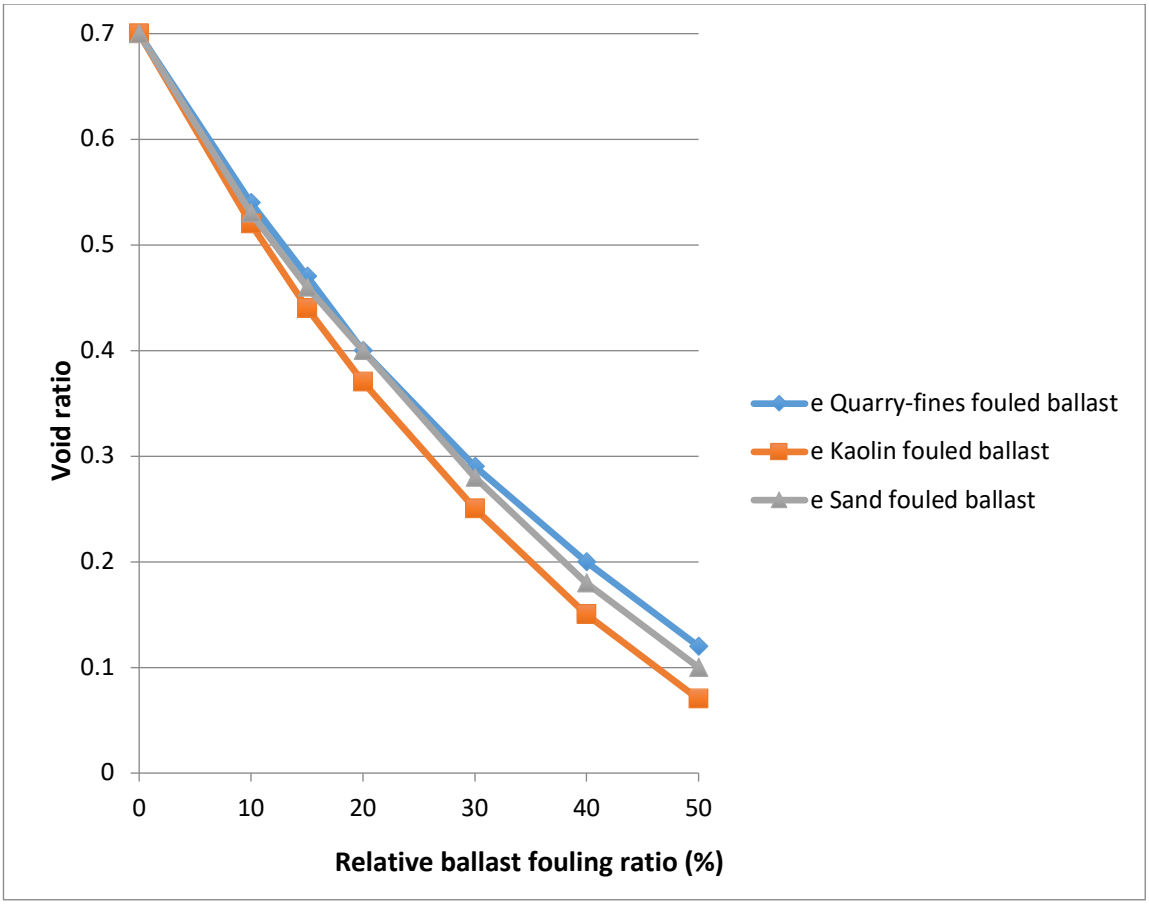


Figure 4.5 Fouled samples void ratio

Finer materials can easily move through ballast particles and fill the existing gaps between them. A new parameter can be defined as “Relative void ratio” (eClean-ballast/ eFouled-

ballast) as the proportion of void ratio of clean ballast (eClean-ballast) over the void ratio of fouled ballast (eFouled-ballast). The relative void ratio is an indication of the reduction in sample void ratio as the ballast progressively fouled with any fouling material. Variation of relative void ratio with respect to ballast fouling index is represented in Figure 4.6.

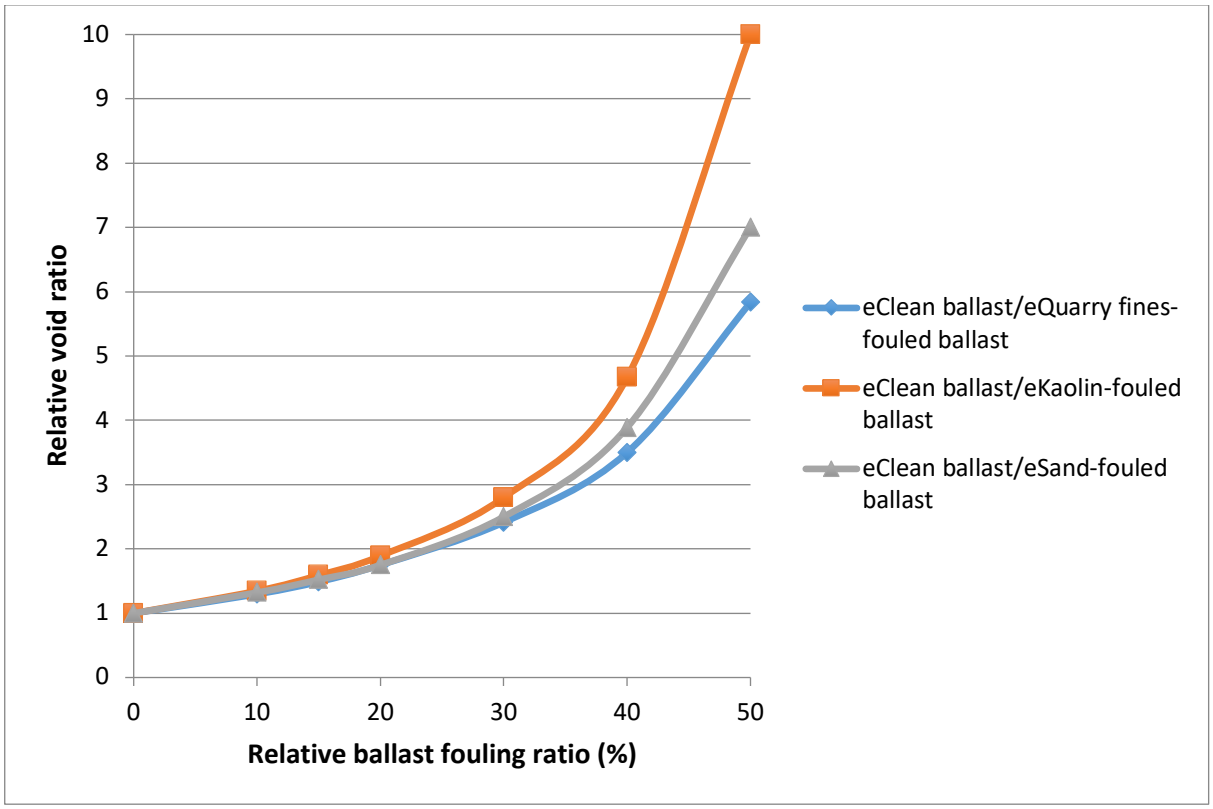


Figure 4.6 Variation of relative void ratio for fouled ballast samples

As presented in Figure 4.6, the relative void ratio of three different samples are approximately same till the ballast fouling index of 15% to 20% which is introduced as ballast breaking point in Section 4.1. After this point, the difference in calculated is observed. The variation in relative void ratios is reported to be at 10, 7 and 5.8 for kaolin, sand and quarry-fines fouled ballast respectively due to the difference in fouling agent particle size and density.

In the earlier stage of discussion, the ballast breaking point is introduced and measured as 15% to 20% relative ballast fouling ratio (see Figure 4.3), which is the point that ballast

permeability significantly reduced. According to Figure 4.1 for permeability of ballast, Figure 4.4 for relative hydraulic conductivity and Figure 4.6 for relative void ratio, it is concluded that ballast shows the same behaviour in terms of reduction in permeability and void ratio until it reaches to its breaking point (15% - 20% relative ballast fouling ratio). By fouling samples more than ballast breaking point, ballast tends to act as fouling agent itself rather than clean ballast. These findings are in accordance with results reported by Tennakoon et al., (2012) and Danquah et al., (2014).

4.4 Observation made during Constant-head hydraulic conductivity test

As previously noted in Section 3.1, for preparing the sample, three layers of ballast with a thickness of 100mm (total of 300mm) were compacted and a given mass of fouling material placed on top of each layer. As presented in Figure 4.2, by adding fouling materials from 2% to 10% relative ballast fouling ratio, samples are in "moderately clean" zone. By adding further fouling materials, samples move through next zone which is called "moderately fouled" when fouling index is still up to 20% relative ballast fouling ratio. In these stages, the voids between coarse ballast particles are available to accommodate the finer fouling agents. Finer materials move downwards toward the bottom of the tank. Due to higher initial void ratio and high permeability, fouling materials can move easily. In this case, after finishing the test, there is no sign of fouling material in the top layer of ballast. Figure 4.7 shows downwards movements of fouling material when testing in moderately clean and moderately fouled ballast. Fine fouling material moves downwards by any means of compaction in sample preparation stage and flow of water when performing the test.



Figure 4.7 Top layer of ballast in moderately clean and moderately fouled zone

By removing the first layer (top 100mm) of kaolin-fouled ballast samples particles, due to finer particle size, there is no sign of fouling material and the layer can be considered to be clean. On the other hand, with the presence of quarry fines, the sign of fouling material is completely obvious as can be seen in the Figure 4.8. This is due to a higher particle size of quarry fines comparing to kaolin particles. The void spaces between ballast particles are nearly full, so there is not enough space for quarry-fine particles to move and/or infiltrate downward.



Figure 4.8 Middle layer of quarry-fines fouled ballast in moderately clean and moderately fouled zone

By removing the second layer, for sample fouled with quarry fines the concentration of fouling materials are more than top layers but still there is space for water to pass through. The picture of bottom layer of sample fouled with quarry fines is represented in Figure 4.9.



Figure 4.9 Bottom layer of quarry-fines fouled ballast in moderately clean and moderately fouled zone

By removing the second layer, for sample fouled with kaolin, sigsn of the kaolin is obvious. The presence of kaolin particle created slurry which has a significant impact on permeability

reduction. The presence of a slurry occupies the void spaces among the ballast particles which do not let water pass freely through when the sample is even moderately fouled. This can be seen in Figure 4.10.



Figure 4.10 Bottom layer of kaolin fouled ballast in moderately clean and moderately fouled zone

By adding more fouling materials on ballast, and moving towards zones of “fouled” and “highly fouled” as shown in Figure 4.2, the signs of the presence of fouling materials become evident from the top layer of ballast. The fouling agents are evident when removing the cap after finishing each test which results in further reduction of permeability of fouled samples as discussed previously.

Chapter Five RESULTS AND DISCUSSION FOR HYDRAULIC FLUME TEST

A total number of 298 hydraulic flume tests were conducted covering the following variables:

1. Ballast permeability
2. Rainfall intensity
3. Rainfall duration
4. Slope

The performed tests are clustered based on type and degree of ballast fouling. The summary of performed hydraulic flume tests on clean ballast is presented in Table 5.1.

Table 5.1 Summary of performed test on clean ballast (Table continues next page)

Ballast	Slope (%)	Rainfall Intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
Clean ballast	0	33	0.5	6
			1	3
			2	2
		45	0.5	5
			1	2
			2	1
		100	0.5	4
			1	1
	1	33	0.5	1
			1	1
			2	2
		45	0.5	1
			1	1
			2	1
		100	0.5	1
			1	1

Ballast	Slope (%)	Rainfall Intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
	3	33	0.5	7
			1	2
			2	1
		45	0.5	1
			1	1
			2	1
		100	0.5	3
			1	1
	5	33	0.5	8
			1	7
			2	1
		45	0.5	3
			1	1
			2	1
		100	0.5	2
			1	1
Total				74

Accordingly, summaries of conducted hydraulic flume tests on quarry-fines and kaolin fouled ballast are presented in Tables 5.2 and Table 5.3 respectively.

Table 5.2 Summary of performed test on quarry-fines fouled ballast (Table continues next pages)

Ballast	Relative ballast fouling Ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
Quarry-fines fouled ballast	10	0	33	0.5	3
				1	1
				2	1
			45	0.5	2
				1	1
				2	1

Ballast	Relative ballast fouling Ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
			100	0.5	1
				1	1
		3	33	0.5	1
				1	1
				2	3
			45	0.5	1
				1	1
				2	1
			100	0.5	1
				1	1
		5	33	0.5	2
				1	1
				2	1
			45	0.5	1
				1	2
				2	1
			100	0.5	1
				1	1
	15	0	33	0.5	2
				1	1
				2	1
			45	0.5	1
				1	1
				2	1
			100	0.5	1
				1	1
		3	33	0.5	1
				1	3
				2	1
			45	0.5	1
				1	1
				2	1
			100	0.5	1
				1	1
		5	33	0.5	3

Ballast	Relative ballast fouling Ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
				1	1
				2	1
			45	0.5	1
				1	1
				2	2
			100	0.5	1
				1	1
	20	0	33	0.5	1
				1	1
				2	1
			45	0.5	1
				1	1
				2	2
			100	0.5	1
		3	33	0.5	1
				1	1
				2	2
			45	0.5	3
				1	1
				2	1
			100	0.5	1
		5	33	0.5	1
				1	1
				2	1
			45	0.5	1
				1	2
				2	1
			100	0.5	1
	30	0	33	0.5	1
				1	1
				2	1
			45	0.5	3
				1	1
				2	1
		3	33	0.5	1

Ballast	Relative ballast fouling Ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
				1	1
				2	2
			45	0.5	1
				1	1
				2	1
		5	33	0.5	1
				1	2
				2	1
			45	0.5	1
				1	3
				2	1
Total					111

Table 5.3 Summary of performed test on kaolin fouled ballast (Table continues next pages)

Ballast	Relative ballast fouling ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
Kaolin fouled ballast	10	0	33	0.5	3
				1	2
				2	1
			45	0.5	1
				1	1
				2	1
			100	0.5	1
				1	1
		3	33	0.5	2
				1	1
				2	1
			45	0.5	1
				1	1
				2	1
			100	0.5	1
				1	1
		5	33	0.5	1

Ballast	Relative ballast fouling ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
				1	2
				2	1
			45	0.5	1
				1	1
				2	1
			100	0.5	2
				1	1
	15	0	33	0.5	1
				1	2
				2	1
			45	0.5	1
				1	1
				2	1
			100	0.5	1
				1	1
		3	33	0.5	2
				1	1
				2	1
			45	0.5	1
				1	1
				2	2
			100	0.5	1
				1	1
		5	33	0.5	2
				1	1
				2	1
			45	0.5	3
				1	1
				2	2
			100	0.5	3
				1	1
	20	0	33	0.5	1
				1	1
				2	1
			45	0.5	1

Ballast	Relative ballast fouling ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
				1	1
				2	1
			100	0.5	1
		3	33	0.5	3
				1	1
				2	1
			45	0.5	1
				1	1
				2	1
			100	0.5	1
		5	33	0.5	2
				1	1
				2	1
			45	0.5	1
				1	2
				2	1
			100	0.5	1
	30	0	33	0.5	3
				1	1
				2	1
			45	0.5	1
				1	2
				2	1
		3	33	0.5	1
				1	1
				2	2
			45	0.5	1
				1	1
				2	1
		5	33	0.5	3
				1	1
				2	1
			45	0.5	1
				1	2
				2	1

Ballast	Relative ballast fouling ratio (%)	Slope (%)	Rainfall intensities (mm/h)	Rainfall duration (h)	Number of conducted tests
Total					113

Engineering properties of the used material were previously discussed in Sections 3.2.2 and 3.2.3. The placement of separator sheet was presented in Section 3.2.4. Sample preparation and testing procedure of hydraulic flume laboratory test were noted previously in Sections 3.2.8 and 3.2.9, respectively. In the following chapter, observations made during the hydraulic flume test is reported in Section 5.1. A study on the piezometers lag time and parameters affecting the mentioned delay is reported in Section 5.2. Results and analysis of the flow of water out of ballast and subballast along with retained water measurements are discussed in Section 5.3. Accordingly, flume side piezometers readings are presented in Section 5.4 in order to predict water level of the sample at any stage of testing with respect to the section and rainfall variables. Finally, the repeatability of the testing procedures is presented and discussed in Section 5.5.

5.1 Observation made during hydraulic flume test

A total number of 298 hydraulic flume tests were conducted. The ballast and subballast drained water in two different ways during the entire conducted laboratory tests. The results can be grouped base on the rainfall intensities as:

1. When generated rainfall partially saturates the subballast
2. When generated rainfall fully saturate the subballast

In the first case, depending on the degree of fouling of the top ballast layer, water goes through the clean or fouled ballast sample and reaches the subballast. Clearly in the case of highly fouled ballast samples, movement of water will take more time compared to free draining clean ballast due to the high difference in hydraulic conductivity and fouling

material characteristics of the ballast layer, previously discussed in Section 4.1. Therefore, it normally takes more time for water to infiltrates through the base of the sample. Base piezometers start to show water movement when it has passed through the subballast layer. The required time for side piezometers to show any sign of water can be referred as "lag-time" or "delay". The delay analysis for the conducted test is presented in Section 5.2.

Initially, water entering ballast starts to saturate the subballast with no flow in ballast/subballast interface. It then, infiltrates towards the base of the sample and drains towards the outlets (depending on permeability and saturation of the ballast). Since the water penetrated towards the subballast, there is no flow reported within the ballast except the amount of rainfall that precipitated adjacent to the separator sheet. As depicted in Figure 5.1, the separator sheet, located next to piezometre 6, covered the entire path towards the outlet. Increasing the degree of fouling of the ballast, will grow the potential of having perched water table in the ballast increases. This is discussed separately in Section 5.4.

According to Heyns (2000), Case 1 is the desirable condition for the drainage. Results discussed in Section 5.4 show that the risen water table eventually drains with time after ceasing of the rainfall. Figure 5.1 indicates the side-view of hydraulic flume container when the occurred rainfall saturates the subballast partially.

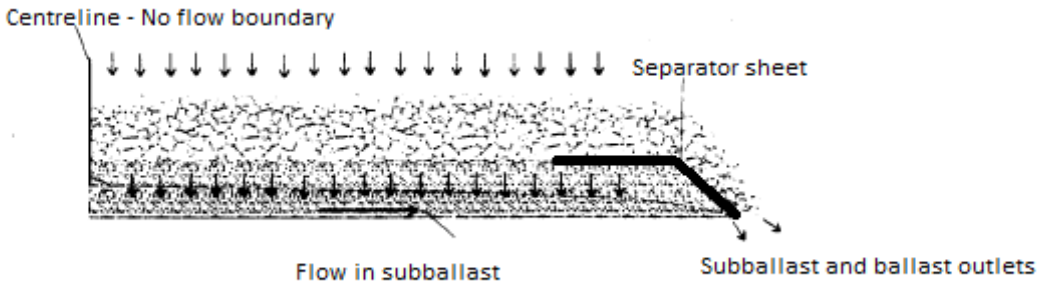


Figure 5.1 Generated rainfall less than $Q_{Critical}$ for subballast (After Heyns, 2000)

On the other hand, in the case 2, the generated rainfall causes a flow of water at/over ballast/subballast interface. The cross-section shows the same behaviour regarding the lag-time or delay. Depending on the fouling index and the characteristics of fouling agents of top ballast layer, the entered water goes through the clean or fouled ballast sample and reaches the subballast. The amount of entered water starts to saturate the subballast with the maximum infiltration rate of the subballast. Parameters affecting maximum infiltration rate of subballast are discussed in Section 5.3.1. As the subballast is fully saturated, the additional water causes a rise in the water level above ballast/subballast boundary. Depending on the ballast relative fouling ratio, the rainfall duration, the rainfall intensity and the bed slope, water starts to drain towards the outlet. In this situation, the existing discharge on top of separator sheet is more than the discharge generated only by raining device adjacent to piezometer 6. The excessive gravitational water is shedding off ballast/subballast edge towards the outlet. Figure 5.2 shows the side-view of hydraulic flume container when the occurred rainfall creates a flow at ballast/subballast interface.

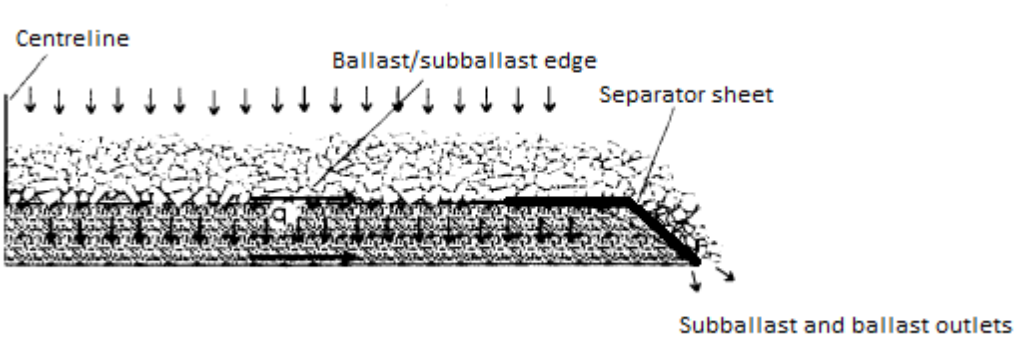


Figure 5.2 Generated rainfall is more than $Q_{Critical}$ for subballast (After Heyns, 2000)

By using the scales, as previously described in Section 3.2.4, the total amount of water collected separately from the ballast and subballast, was measured. Thus, water remained in the system at various time intervals could be determined by subtracting output from the input in the system. The amount of collected water was measured on the scale of “Litre”. Therefore, for the total discharge head, in the unit of “metre”, it is essential to divide the amount of collected water by the total wet area. The wet area can be referred to the area with rainfall. The simulating rainfall device and the dimensions described in Section 3.2.5. The wet area is the rectangular surface from the outer diameter of end nozzles longitudinally and laterally. The wet area dimensions are 33 cm * 180 cm. In order to convert the total cumulative flow to water head, the amount of collected water must be divided by 5940 cm^2. During all of the conducted tests, the cross-section responds to entered water in 4 different stages.

As shown in the Figure 5.3, these stages are lag time, unsteady increase in cumulative flow, steady state condition or equilibrium and unsteady decrease in flow.

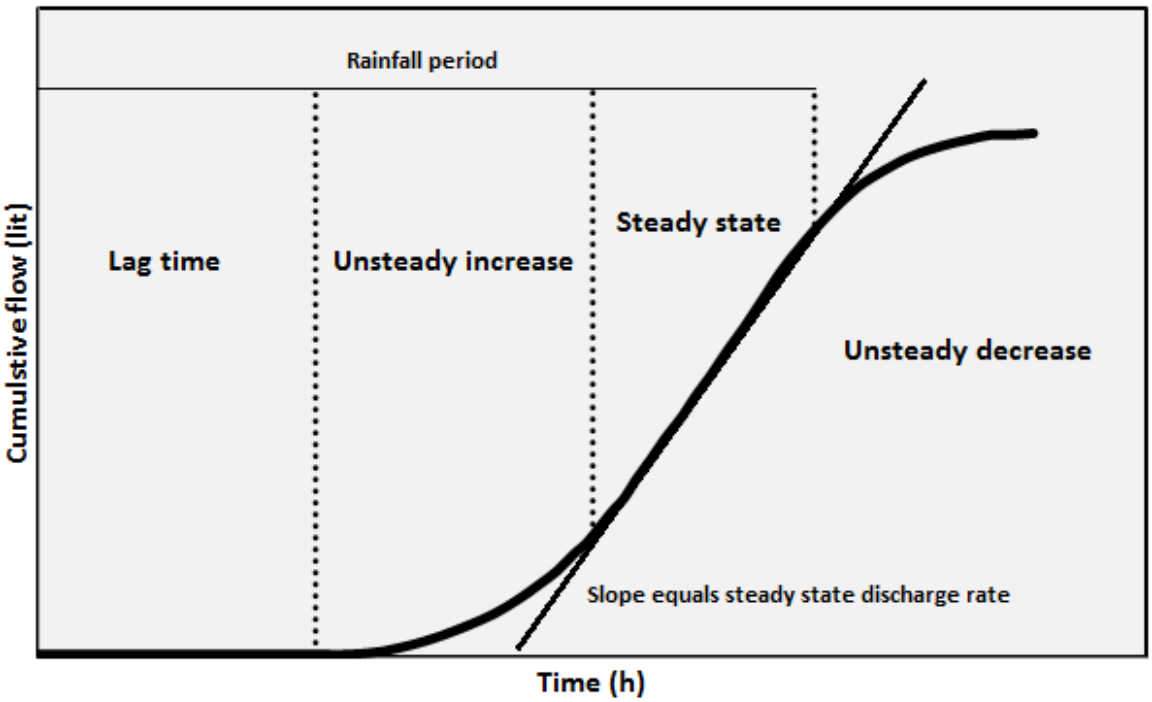


Figure 5.3 Typical cumulative discharge out of hydraulic flume (After Heyns, 2000)

As shown in Figure 5.3, the first phase of investigating the flow of water within the track section is lag time or delay analysis. The results are presented in Section 5.2.

5.2 Lag-time results and analysis

As described in Section 5.1, in the event of rainfall, independent of the intensity and the duration, water starts to infiltrate towards the base of the flume. In this section, it is tried to investigate the lag-time for different testing conditions and the parameters affecting it. The impact of base and rainfall characteristics on lag time can be classified as:

1. The effects of initial moisture content on lag time
2. The effects of relative ballast fouling ratio on lag time
3. The effects of rainfall intensity on lag time
4. The effect of rainfall duration on lag time
5. The effects of slope on lag time

Initially one test was conducted in one day. After conducting each test with ballast with certain degree of fouling, the material must be removed, and the container was thoroughly cleaned and piezometers and other instruments checked before setting up a new test to minimise the error in readings. The time from the previous test is presented in unit of days. If the time from the previous test is equal to 1, this means there is a day gap in between conducted tests. Similarly, when the time from the previous test is equal to 3, this means there was a three-day gap between that test and the next test. Time from the previous test of 3, was due to weekends within the testing period. In few cases, due to lack of time, specific tests were done on the same day (normally on clean ballast). In this situation, the time from the previous test is equal to "0". In the early stages of testing, there were leakage problems at the base of flume. As shown in Figure 5.4, there were delays of 6, 8 and 12 days in testing due to maintenance of the flume and leakage problem.

5.2.1 Initial moisture content

Figure 5.4 shows the measured lag time for all the conducted tests. As shown in Figure 5.4, increasing degree of ballast fouling results in significant delay for piezometers to respond. Depending on the fouling index of ballast layer on top, water passes through the clean or fouled ballast sample and reaches the subballast at different rates. Infiltrating highly fouled ballast samples can take more time than free draining clean ballast due to the high difference in hydraulic conductivity and fouling material characteristics of the ballast layer discussed in Chapter 4. Therefore, it usually takes some time for water to infiltrates through to the base of the sample. Results in Figure 5.4 confirm the decrease in measured lag-time when the time in between test is less, with the equal ballast contamination degree. Figure 5.4 demonstrates the reduction in measured lag-time as the time in between tests decreases. This is a result of the

existing of remaining gravitational water in the section especially on horizontal surfaces. The remaining water will be discussed in Section 5.3.4.

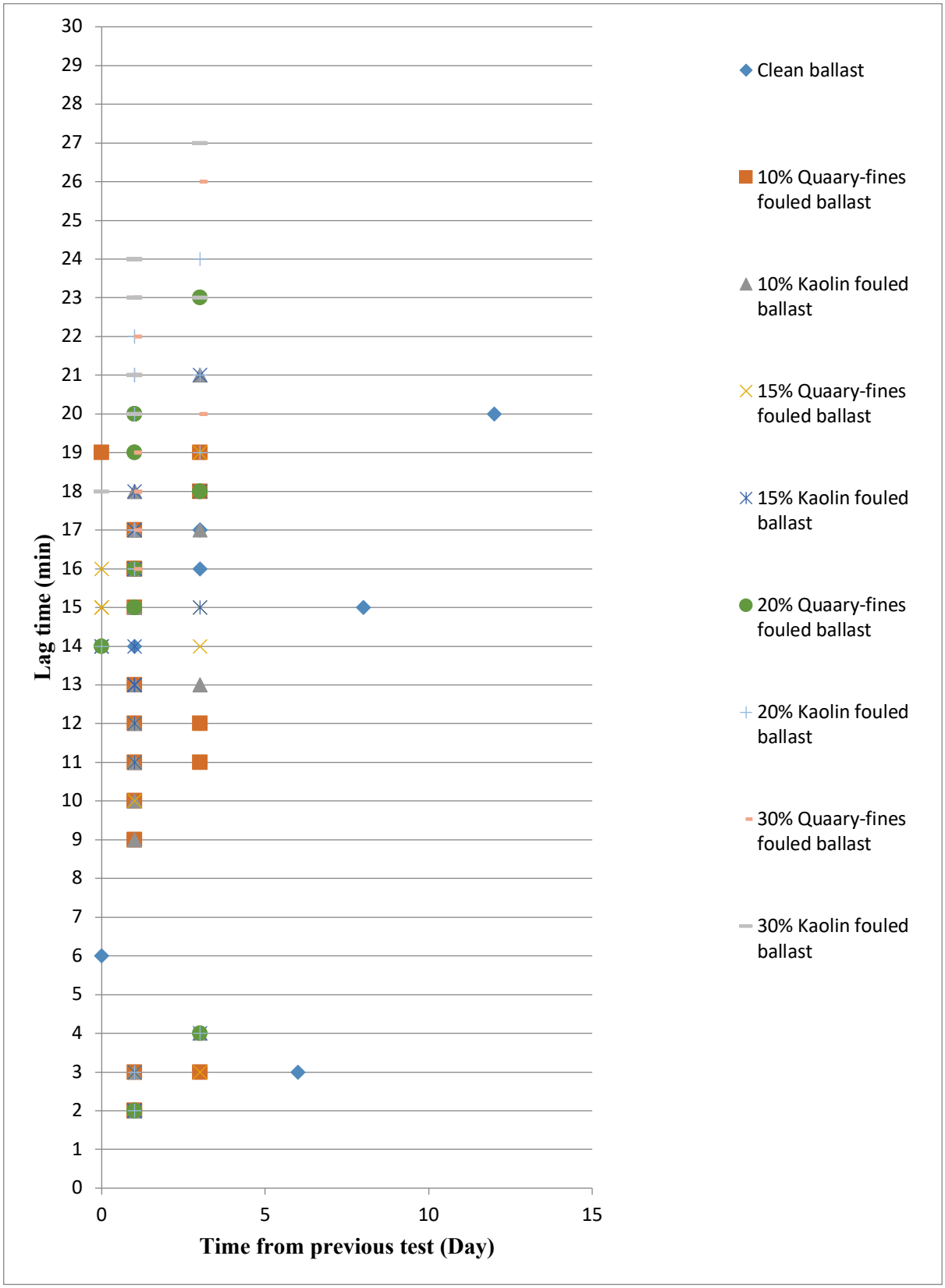


Figure 5.4 Measured lag-time for the entire conducted hydraulic flume test

There is a gap, in the measured delays in the region of 5 to 9 minutes' as shown in Figure 5.4. This gap is located in the transition of 10% quarry-fine and kaolin fouled ballast with having high-intensity rainfalls. As noted in Section 4.1, the interval of 10% to 20% relative ballast fouling ratio is introduced as "ballast breaking point" where the measured permeability of ballast is significantly reduced. The permeability of fouled ballast samples is shown in Figure 4.1. The direct effect of relative ballast fouling ratio on lag time can be seen in the Figure 5.5. Having highly fouled ballast prevents the free-draining of water. Having greater fouling index, increases the required time for gravitational water to penetrates towards the base of the flume. As previously stated, time between the performed test represents the initial moisture content of the sample. Having a long gap in between tests results in having less initial moisture for subballast and fouled ballast sample. High specific yield of clean ballast and great measured permeability values for this layer cause the ballast to drain within few hours after testing. As shown in Figure 5.4, besides ballast relative fouling ratio, having less time in between tests can reduce the measured lag time substantially. Results in Figure 5.4 confirm that a 1-day gap in between conducting tests with the same section characteristics reduces the delay in piezometers' responds significantly, comparing to having a 3-days gap for the same test set up.

5.2.2 Relative ballast fouling ratio

An investigation conducted to study the effects of relative fouling ratio on the lag time. The results are presented in Figure 5.5.

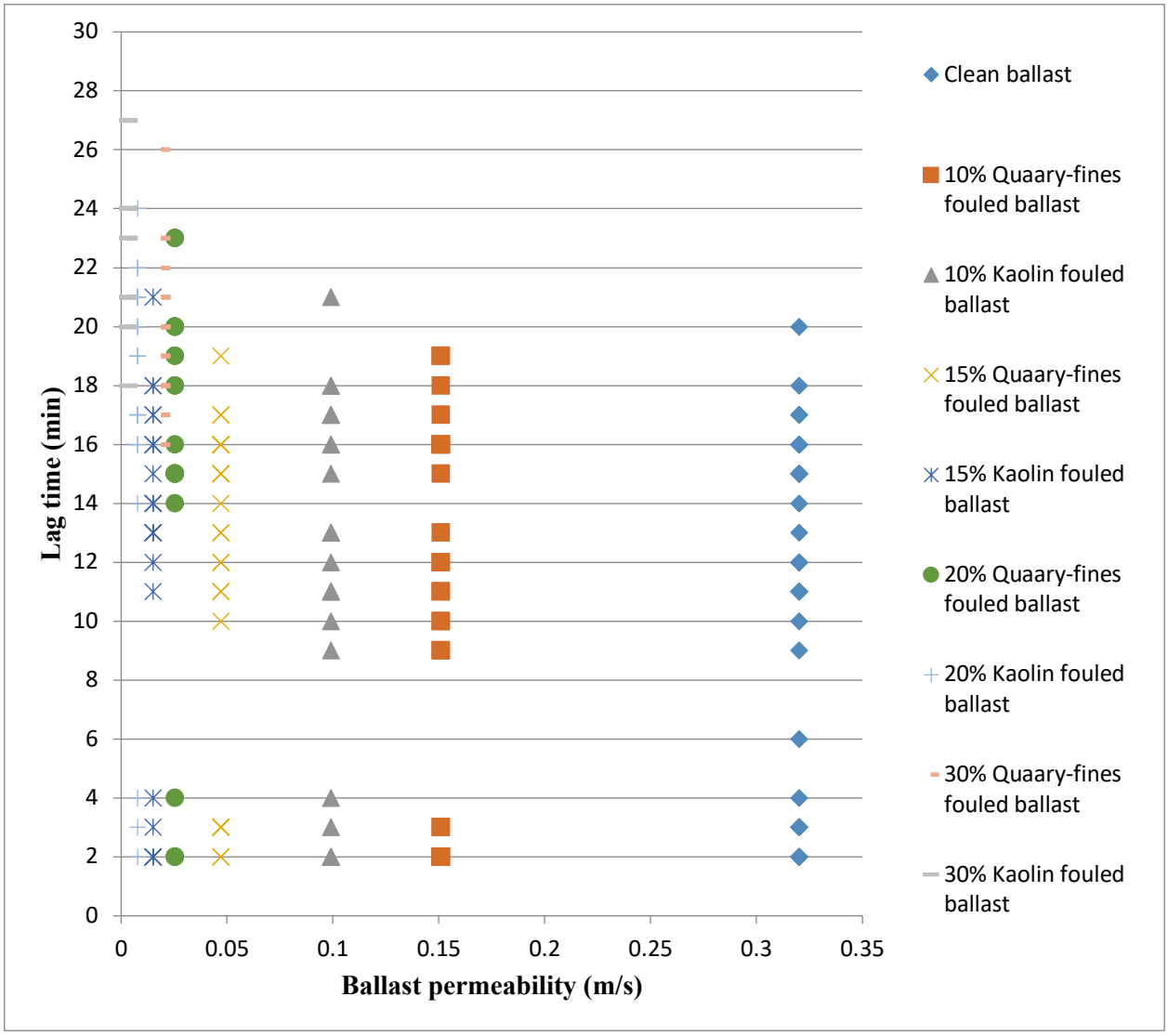


Figure 5.5 Measured lag-time with respect to ballast permeability

The permeability values of clean and fouled ballast were measured and reported separately in Section 4.1. As shown in Figure 5.5, by increasing the fouling index, the hydraulic conductivity values decrease. By a decrease in permeability values, the rate of flow within the fouled sample also decreases. Therefore, movement water towards the base of the section and subballast takes more time. Clean ballast samples, with the highest permeability values (0.32 m/s) have the shortest delay when other rainfall and section characteristics such as rainfall intensity, duration, slope and time from the previous test remain constant. When the

permeability decreases, and reaches to the lowest measured value for 30% kaolin-fouled relative ballast fouling ratio, the lag-time of 27 minutes is reported when having the low-intensity rainfall. A lag-time of 27 min is the highest delays measured within the entire conducted laboratory flume test. High measured lag-time for clean ballast samples in Figure 5.5 is due to the long delay in testing procedure caused by the flume maintenance work.

5.2.3 Rainfall intensity

An investigation conducted to study the effects of generated rainfall intensity on the measured lag-time. Figure 5.6 presents the effects of rainfall intensity on the lag-time.

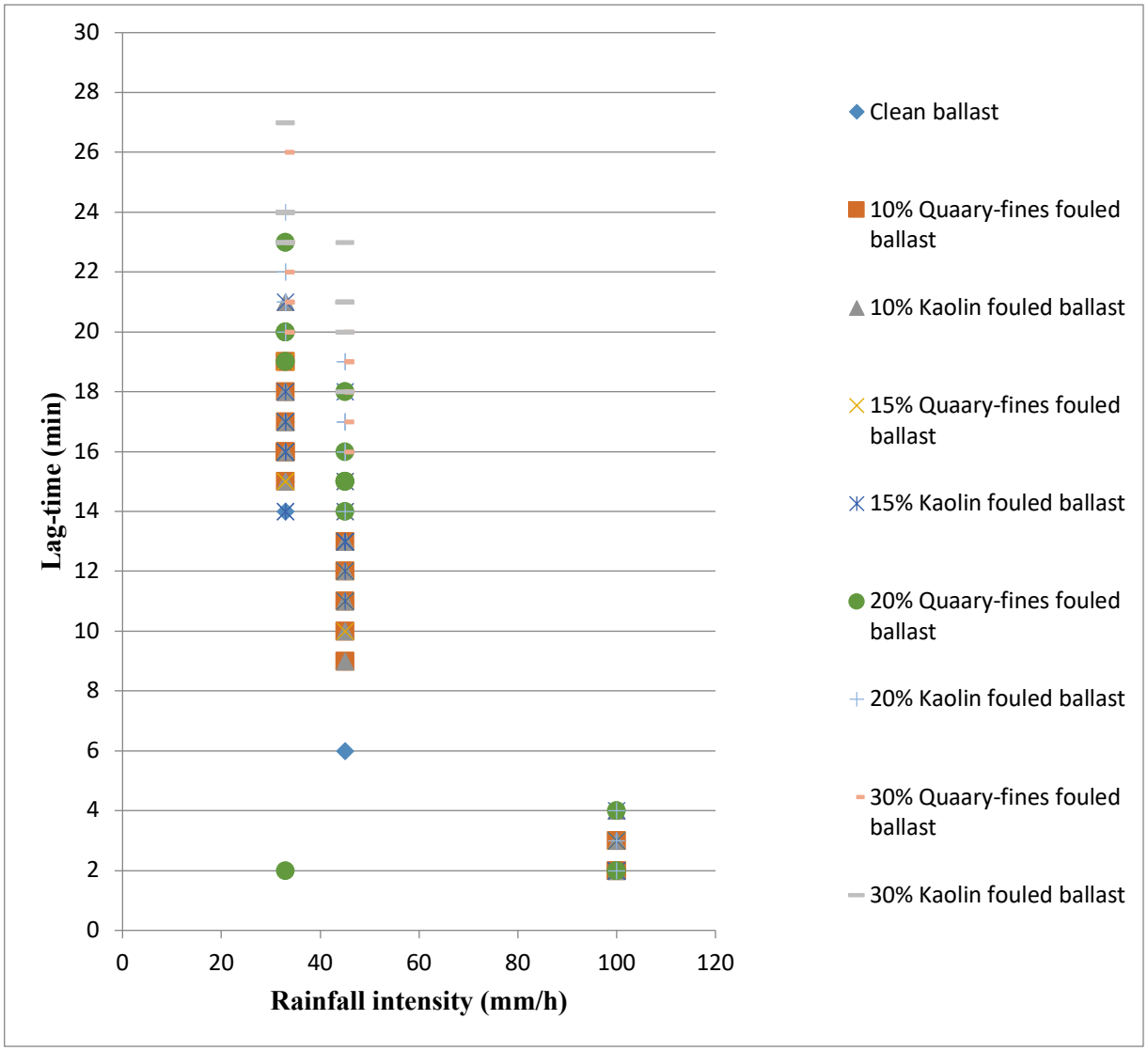


Figure 5.6 Measured lag-time with respect to rainfall intensity

As reported in Section 3.2.5, flume test was conducted at three rainfall intensities:

1. 33 mm/h (light rain event)
2. 45 mm/h (medium-intensity rain event)
3. 100 mm/h (storm event)

For all the rainfall intensities, the lag-time was minimum during the storm event when a large volume of entered water inundated the system. The difference in head causes the water to infiltrate the sample in a higher rate leading to significant reduction in lag-time. Therefore, for a single test with constant section characteristics and different rainfall intensity, higher rainfall intensity results in a decrease of the lag-time. The short measured lag-time of 2 and 6 min for 20% quarry-fines fouled ballast and clean ballast samples respectively, are due to performing the tests in the same days.

5.2.4 Rainfall duration

An investigation conducted to study the effect of rainfall duration on the measured lag-time. As reported in Section 3.2.5, three rainfall durations were used for flume test:

1. 30 min
2. 60 min
3. 120 min

As shown in the Figures 5.4, 5.5 and 5.6, the highest measured lag-time was reported to be 27 min, which was for 30% kaolin fouled sample for a light rain event. After the delay phase, as shown in the Figure 5.3, there was an unsteady increase in both the rate of water flowing out of the layers and the piezometers readings. Hence, since the longest measured lag-time (27min) is less than the shortest interval of rainfall duration (30min), the delay in piezometers is independent of the duration of the rainfall. The duration of the rainfall has a direct relationship with the total amount of entered water into the system. But as it can be seen in

the Figure 5.6, delay depends on the rate of generated rainfall and not on the duration of it. So, the lag-time is independent of the duration of the rainfall (when the minimum duration of rainfall is 30min).

5.2.5 Slope of the flume bed

An investigation conducted to study the effects of the slope of the flume bed and hence ballast/subballast interface on the measured lag-time. As mentioned in Section 3.2.6, four section slopes were used for clean ballast samples and three different slopes for fouled ballast samples. Slopes used were:

1. 0% or horizontal surface (for clean and fouled ballast)
2. 1% or 1in 100 (only for clean ballast)
3. 3% or 3in 100 (for clean and fouled ballast)
4. 5% or 1in 20 (for clean and fouled ballast)

Figure 5.7 shows lag-time with respect to change in the slope of the flume. As can be seen in Figure 5.7, when having the same rainfall characteristics and the same ballast fouling index, change in slope does not affect the measured lag-time. Therefore, the delay in response of piezometers is independent of bed slope.

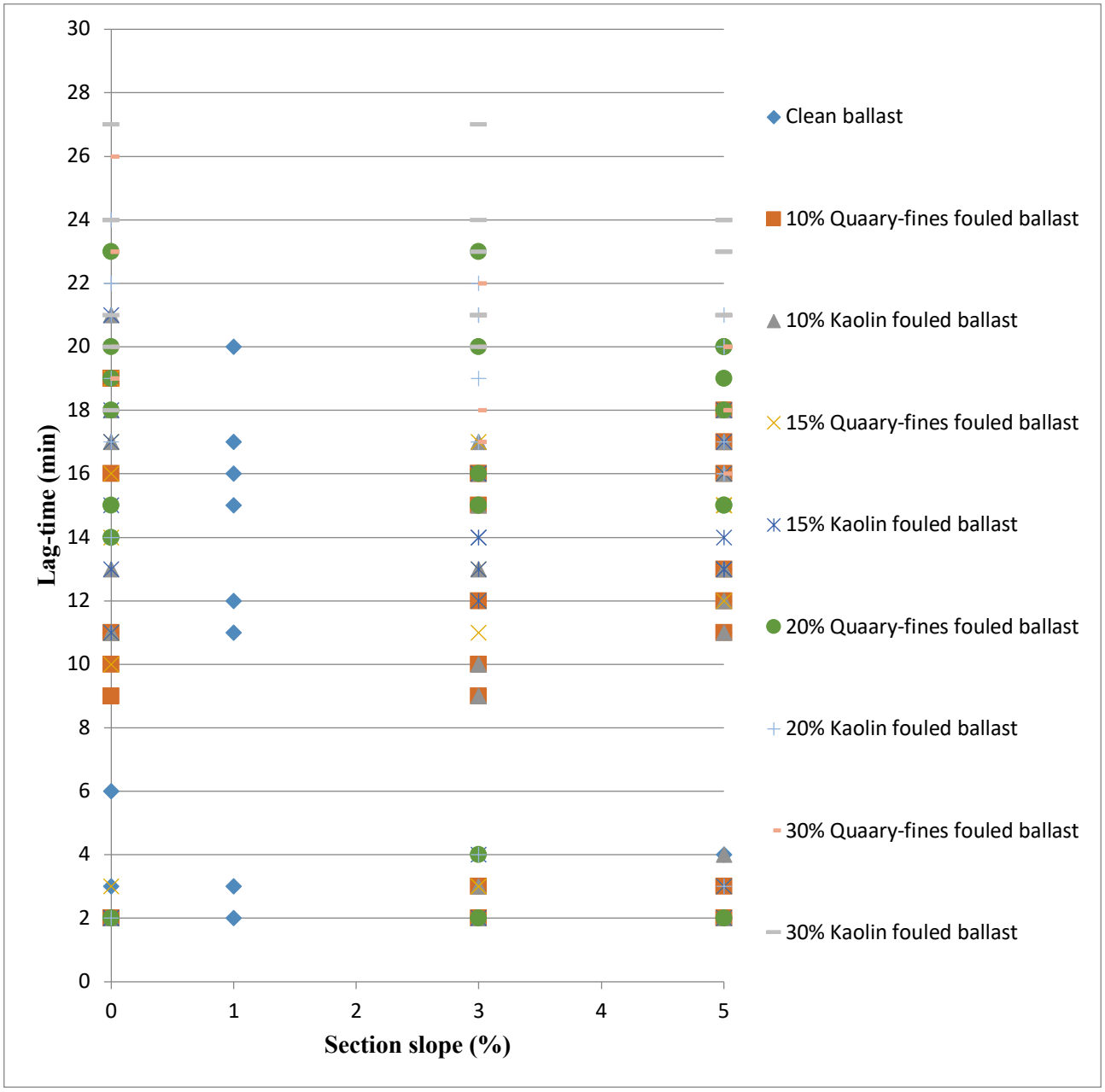


Figure 5.7 Measured lag-time with respect to bed slope

5.3 Outlet discharge analysis

The next step of flow after an unsteady increase in cumulative flow out of the flume is a steady-state discharge rate as shown in Figure 5.3. Therefore, to better understand this behaviour, an investigation is conducted to examine the flow of water through ballast and subballast, individually. This study focuses on the movement of water through the ballast and subballast and required time for these processes. Therefore, the unsteady rise in section hydrograph and steady-state condition (Steps 2 and 3 as depicted in Figure 5.3) are not investigated.

As previously mentioned in Section 5.1, the cumulative outflows of both layers were measured using two different buckets at the end of the container at both sides of the separator sheet. Using the scales, the mass of the collected water from each bucket was measured with respect to change in time. The time "0" refers to the ceasing of the rainfall. Ballast and subballast cumulative flow were measured at times of 0, 1, 2, 3 and 4 hours after finishing the rainfall. Therefore, the cumulative outflow for these layers can be plotted against time for the all the conducted tests. Apart from the outflow values, total section and rainfall characteristics of the performed test are noted. Table 5.4 demonstrates the typical set of results for clean ballast sample on the horizontal section when generating 33 mm/h rainfall for 30 min.

Table5.4 Summary of subballast cumulative flow measurements for typical hydraulic flume test

Measured values						x1	x2	x3	x4	x5
						Time	Slope	Rainfall intensity	Rainfall duration	Ballast permeability
Subballast cumulative flow (L)	**Ballast cumulative flow (L)**	**Total outflow (L)**	**Total remaining water (L)**	**Inflow (L)**	**Intensity (L/min)**	**t (h)**	**i (%)**	**q (mm/h)**	**D (h)**	**K_b (m/s)**
3.1	3.8	6.9	17.1	24	0.8	0	0	33	0.5	0.32
7.2	3.9	11.1	12.9	24	0.8	1	0	33	0.5	0.32
10.8	3.9	14.7	9.3	24	0.8	2	0	33	0.5	0.32
13.6	3.9	17.5	6.5	24	0.8	3	0	33	0.5	0.32
15.1	3.9	19	5	24	0.8	4	0	33	0.5	0.32

The measured values for ballast and subballast cumulative flows are shown on the left side of the table. The next column is “Total outflow” which is the sum of ballast and subballast flows at each hour. The “Total remaining water” is remaining gravitational water and, is resulted from subtracting the total inflow from total outflow at each hour. The total inflow is measured using the provided flow-meter on rainfall generating device explained in Section 3.2.3. On the right-hand side of the table, the entire section and rainfall characteristics are provided. These characteristics consist of bed slope, rainfall intensity and duration and ballast permeability values. On the top right-hand side of the tables, the entire parameters affecting the collecting of flow are listed from x1 to x5 which include time after ceasing of rainfall and mentioned rainfall and section characteristics. By using mentioned measurements for each

individual test, ballast and subballast flow, total outflow and gravitational remaining water with respect to can be plotted against time.

5.3.1 Subballast discharge

In order to investigate the flow of water within the track section, flume discharge out of the subballast was investigated as described earlier in Section 5.3. Cumulative flow in the subballast was measured at 1, 2, 3 and 4 hours after cessation of rainfall.

5.3.1.1 Subballast drainage capacity

Heyns (2000) defined a new parameter as "subballast infiltration capacity". This factor can be explained as the maximum rainfall intensity generated on top of the clean ballast that fully saturates the subballast without creation of any flow in the ballast/subballast boundary. In case the generated rainfall intensity over clean ballast is less than subballast infiltration capacity, water penetrates the subballast at the rate of the generated rainfall. On the other hand, having rainfall intensity over subballast infiltration capacity, results in a penetration to this layer at the maximum of subballast infiltration capacity by water. As the section reaches the steady state after start of rainfall, the rate of inflow is considered to be equal to the rate of outflow. As previously noted, the total rate of outflow consists of ballast and subballast discharges. Therefore, when the rainfall is not forming any flow at/above ballast/subballast interface, the total outflow can be assumed to be equal to the total subballast discharge. On the other hand, when the generated rainfall is forming flow above ballast/subballast boundary, the total steady discharge is assumed to be the sum of subballast and ballast discharges. Table 5.5 shows the maximum measured subballast discharge for low-intensity rainfall at different times from ceasing of the rainfall for having different bed slopes.

Table 5.5 Maximum measured subballast discharge when having a low-intensity rainfall

Rainfall intensity (33mm/hr)												
Time after rainfall (hr)	1			2			3			4		
Section slope (%)	0	3	5	0	3	5	0	3	5	0	3	5
Ballast condition	Maximum meassured subballast discharge (lit/hr)											
Clean ballast	5.7	7.7	8.4	5.6	5.7	7.9	5.5	6.8	5.8	4.4	5.8	5.4
10% quarry-fines	6.3	7.3	8.6	4.9	6.5	8.2	5.2	6.7	5.4	3.4	5.5	5.1
10% kaolin	5.9	7.1	7.9	4.9	6.7	7.7	4.9	6.7	5.8	2.8	5.4	4.7
15% quarry-fines	5.8	7.2	7.8	5.8	6.1	6.1	4.2	4.5	6.4	3.9	4.1	4.9
15% kaolin	5.9	7.5	8.1	4.9	5.7	7.6	4.5	4.7	5.7	3	5.4	3.4
20% quarry-fines	6	7.3	8.3	5.2	5	8.3	4.2	4.6	5.3	3.6	3.1	3.8
20% kaolin	5.5	8.1	8.8	4.8	7.3	6.9	3.8	5.4	5.6	3.5	3.5	3.9
30% quarry-fines	5.9	7.8	7.1	5.2	7.8	6.1	3.9	4.7	5.7	3.9	3.6	4.3
30% kaolin	6.1	7.4	6.7	5.1	4.8	6.5	3.7	4.8	5.3	3.3	3.2	5.2

The results of ballast and subballast discharges for the entire conducted tests are presented in Appendix I. As shown in Table 5.5, the subballast discharges are measured at 1, 2, 3 and 4 hours after cessation of rainfall. The line's slope for subballast cumulative flow represents the amount of water drained out of subballast in each hour. Results confirm the decrease in line slope or subballast discharge with time. The drop, in the rate of subballast discharge is due to drop in water level above the datum. With time the subballast and ballast (depending on the intensity of rainfall) drain the water towards the outlets. Draining of the gravitational water lowers the water level in the section. With consequential decrease in discharge from the subballast layer. The maximum rate of subballast discharge in first hour after cessation of rainfall was 8.8 L/h for 20% kaolin fouled ballast samples. As expected, discharge reduces with time after ending the rainfall. The maximum discharges of 8.3, 6.8 and 5.8 L/h at 2, 3 and 4 hours after cease of rainfall, respectively.

As shown in Table 5.5, the section slope has significant impact on the rate of subballast discharge. Increasing the section slope from 0% to 5% increases the rate of subballast drainage up to 60% in the first hour after ceasing of the rainfall. With a decrease in the water level within first hour after ceasing of the rainfall, this rate tends to increase up to 67%. The impact of section slope on section cumulative flow is reported to grow in the third and fourth hour after finishing of the rainfall and measured to be up to 83% and 100% difference when

comparing the horizontal sections to maximum slope of 5%. These results confirm the need to ensure that there is adequate bed slope to drain the water in the track bed.

Increasing the rainfall intensity to 45 mm/h results in rise of water level above the ballast/ subballast interface. In this case, the flow of water above the subballast is drained and collected from top of the separator sheet. The ballast discharge will be discussed separately in Section 5.3.2. Table 5.6 shows the maximum measured subballast discharge when having a medium-intensity rainfall at different times from stopping rainfall for the different section slopes.

Table 5.6 Maximum measured subballast discharge when having a medium-intensity rainfall

Rainfall intensity (45mm/hr)												
Time after rainfall (hr)	1			2			3			4		
Section slope (%)	0	3	5	0	3	5	0	3	5	0	3	5
Ballast condition	Maximum meassured subballast discharge (lit/hr)											
Clean ballast	6.1	7.9	9	5.9	7	8.4	4.6	4.9	4.6	3.7	4.1	4.4
10% quarry-fines	6	6.6	7.7	5.1	7.7	7.8	4.3	5.2	5.8	3.4	4.1	5.1
10% kaolin	5.8	6.7	8.6	5.4	5.4	7.8	4.2	5.2	5.8	3.6	4.5	5.5
15% quarry-fines	6.4	6.9	7.9	5.5	5.9	7.8	3.7	5.5	5.9	4.1	3.2	5.7
15% kaolin	6.7	6.8	7.7	5.2	5.7	7.9	4.7	5.5	5.8	3.2	4.1	5.3
20% quarry-fines	5.9	7.2	7.8	4.7	5.9	6.9	4.1	5.3	6.4	3.9	3.5	4.1
20% kaolin	6.1	6.6	8.3	5.5	5.8	7.1	4.8	4	5.5	2.9	3.8	5.5
30% quarry-fines	5.9	7.4	8.1	4.6	6.3	6.5	3.9	4.4	6.1	3.4	3.7	4.6
30% kaolin	5.7	7.4	8.4	5	5.8	7.7	4.4	3.9	5.1	4.2	3.1	4.8

As shown in Table 5.6, increasing the rainfall intensity from 33 mm/h to 45 mm/h increases the maximum subballast discharge up to 6% and 2% for horizontal and sloping subgrade in first hour after ceasing of the rainfall, respectively. The change in rainfall intensity caused the water table to rise. The excess water sheds off from ballast/subballast boundary and formed a flow in ballast layer. This flow was collected towards the outlet from the top of separator sheet. The rise in rainfall intensity does not affect the maximum measured subballast drainage capacity in second, third and fourth hour after cease of rainfall.

Increasing the rainfall intensity to 100 mm/h results in a sudden rise of water level above the ballast/subballast interface. In this case, the flow of water above the subballast is drained and collected from top of the separator sheet. The ballast discharge will be discussed separately in Section 5.3.2. Table 5.7 shows the maximum measured subballast discharge when having a high-intensity rainfall at different times from cease of the rainfall when having different section slopes.

Table 5.7 Maximum measured subballast discharge when having a high-intensity rainfall

Rainfall intensity (100mm/hr)												
Time after rainfall (hr)	1			2			3			4		
Section slope (%)	0	3	5	0	3	5	0	3	5	0	3	5
Ballast condition	Maximum meassured subballast discharge (lit/hr)											
Clean ballast	5.1	6.8	7.9	5	6.1	6.2	4.3	5.3	5.8	3.1	4.5	4.4
10% quarry-fines	5	6.3	7.6	5.2	5.7	6.6	3.8	5.6	5.1	3.4	3.8	4.6
10% kaolin	4.8	6.6	8.2	5.2	6.5	6.8	4.4	4.6	4.2	3	3.2	4.7
15% quarry-fines	5.7	6.4	7.8	4.8	5.4	7.7	3.8	5.3	5.7	3.7	4.7	5.1
15% kaolin	5.6	6.5	7.4	5.6	6.2	6.6	3.9	4.9	4.4	3.4	3.5	3.8
20% quarry-fines	4.9	5.9	7.1	4.4	5.7	6.7	3.2	4.2	4.9	2.4	3.2	3.4
20% kaolin	4.9	5.8	6.8	4.4	5.6	6.3	3.9	4.3	5.7	2.6	3.5	3.4

As shown in Table 5.7, increasing the rainfall intensity from 45 mm/h to 100 mm/h does not affect the maximum subballast discharge for horizontal and sloping subgrade in different hours after ceasing of the rainfall. The change in rainfall intensity caused an immediate rise in water level, which consequently drained, from top of separator sheet. The ballast discharge is discussed separately in Section 5.3.2. Results in Tables 5.5 to 5.7 confirm the key finding of Heyns (2000) regarding the maximum infiltration capacity of subballast. Existing laboratory measured results suggest a limit for subballast drainage capacity with respect to subballast permeability, subballast thickness, section slope and time after ceasing of the rainfall. These capacities are summarised in Table 5.8.

Table 5.8 Measured subballast drainage capacity

Ballast type	Rainfall intensity (mm/h)	Section slope (%)	Drainage capacity (L/h)
Clean ballast	33	0	1.5 – 5.7
		1	1.3 – 6.1
		3	1.2 – 7.7
		5	0.2 – 8.4
	45	0	1.3 – 6.1
		1	1.1 – 6.8
		3	1.2 – 7.9
		5	1.2 – 9
	100	0	1.7 – 5.1
		1	1.6 – 6.2
		3	1.8 – 6.8
		5	1.1 – 7.9
Quarry-fines fouled ballast	33	0	0.8 – 6.3
		3	0.9 – 7.8
		5	0.2 – 8.6
	45	0	1.2 – 6.4
		3	1.1 – 7.4
		5	1.1 – 8.1
	100	0	1.9 – 5.7
		3	1.7 – 6.4
		5	1.2 – 7.8
Kaolin fouled ballast	33	0	1.1 – 6.1
		3	0.9 – 8.1
		5	0.4 – 8.8
	45	0	1.3 – 6.7
		3	1.1 – 7.4
		5	1.1 – 8.6
	100	0	2.3 – 5.6
		3	1.8 – 6.6
		5	1.9 – 8.2

5.3.1.2 Initial values analysis

Laboratory tests results show the subballast cumulative flow for the entire performed tests has the initial value (presented in Appendix I). This initial value represents the amount of collected water during the rainfall event. Therefore, depending on the period and intensity of rainfall and the section slope, the mentioned initial values can vary. Presented results prove that the section with steeper slope collected more amount of water, initially.

Based on the results in Section 5.3.1.1, it is revealed that the relation between the amount of collected water during the rainfall and duration of rainfall is not linear. As previously noted, the initial amount of collected water depends on rainfall characteristics and section slope. Results show that by keeping the rainfall intensity and section characteristics constant and changing only the duration of rainfall, the relationship between the initial amounts of discharge is not linear. Figure 5.8 shows the initial amount of collected water for all the tests on clean, quarry-fines and kaolin fouled ballast with horizontal surface when having a medium-intensity rainfall for 0.5, 1 and 2 hours respectively.

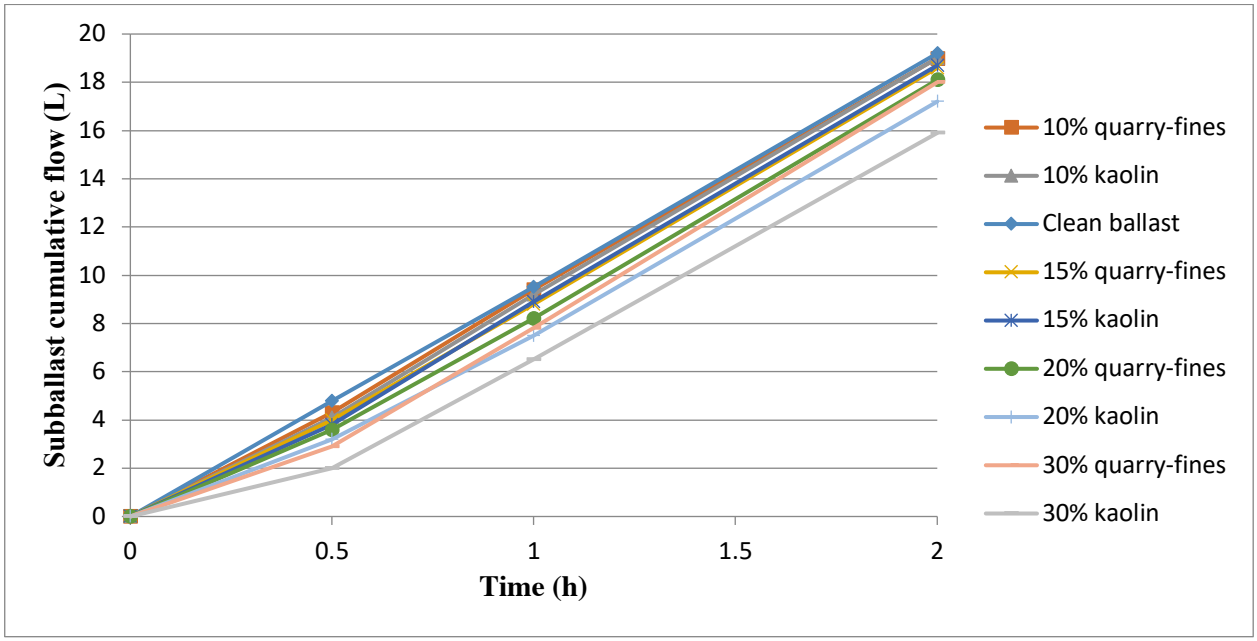


Figure 5.8 Initial amount of collected water for conducted test on clean, quarry-fines and kaolin fouled ballast with horizontal surface when having a medium-intensity rainfall for up to 2 hour duration

Results confirm that when having longer duration of rainfall, section drains more amount of water out of subballast, during the rainfall event. As shown in Figure 5.8, the initial amount of collected water is more than the relationship in between the duration of rainfalls. This is due to the required time for entered water to saturate the subballast. Once the subballast is

saturated, the section acts based on the amount of accumulated water level and the capacity of section and subballast to drain water, reported in Table 5.8.

The initial amounts of collected water are exactly sorted by the permeability values of ballast layer on top. Therefore, if the sample has less permeable ballast layer on top, the section collects less amount of water initially. Complete set of results of the amount of collected water and discharge out of subballast are presented in Appendix I. Figure 5.8 is randomly chosen example within the entire conducted tests.

As rainfall starts (assuming dry or moist subballast), it first saturates the subballast and there is no flow in ballast/subballast interface. Therefore, at low-intensity rainfall for short durations until subballast is saturated, water required to saturate this layer is important and not the permeability of ballast (which is likely to be many orders of magnitude higher than that of the subballast).

Results show that, when the subballast is fully saturated, when there is medium and high intensity rainfall, water discharge form this layer is predictable. Figure 5.9 shows the initial amount of collected water for clean, quarry-fines and kaolin fouled ballast with horizontal surface for low-intensity rainfall for 0.5, 1 and 2 hours respectively. Results show the effect of fouled ballast on the initial amount collected water; but due to the presence of air and unsaturated subballast, this layer acts unpredictable.

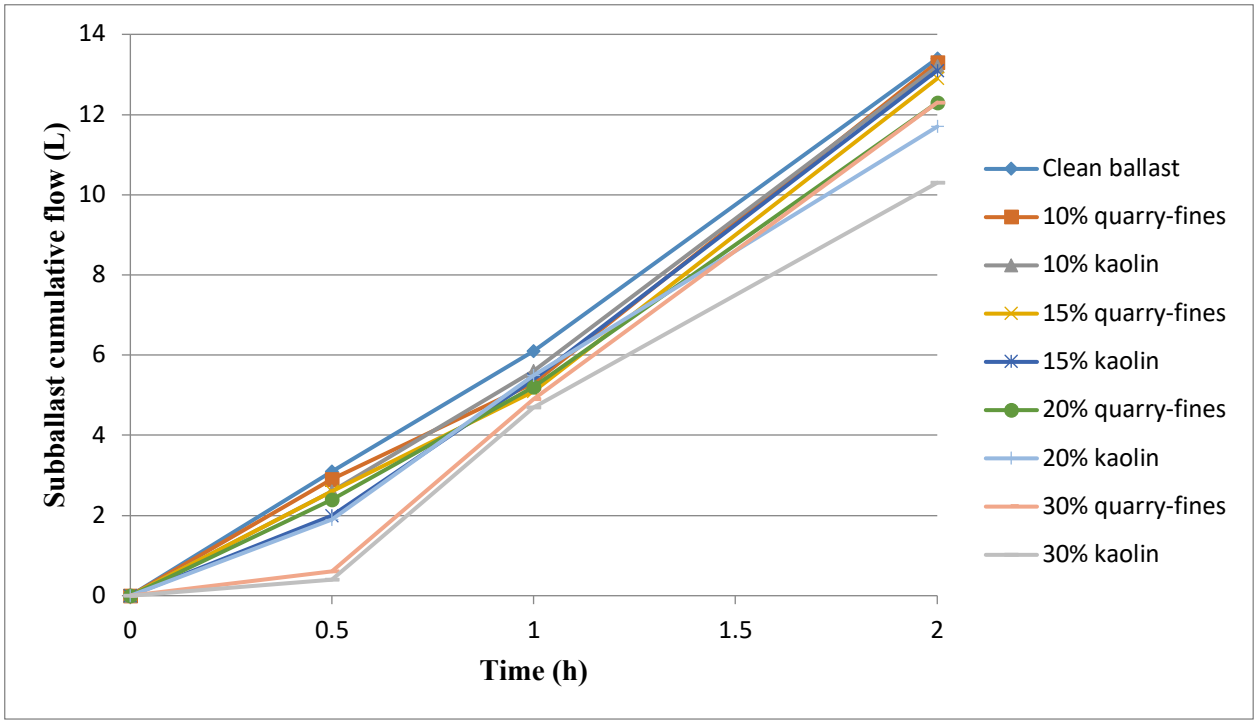


Figure 5.9 Initial amount of collected water for conducted test on clean, quarry-fines and kaolin fouled ballast with horizontal surface when having a low-intensity rainfall for 0.5, 1 and 2 hours

5.3.2 Ballast discharge

As noted in Section 5.3, the outflows of both layers were separately measured using two different buckets at the end of container at both sides of the separator sheet for up to 4 hours after cessation of the rainfall. In the results below, the cumulative outflow for is plotted against time for all the conducted tests. The time "0" refers to cease of the rainfall.

5.3.2.1 Ballast drainage capacity

As noted, in Section 5.3.1, there will be limited flow (perhaps no flow) from the ballast layer until the subballast layer is saturated and outflow capacity from this layer is exceeded. After saturation of the subballast, water starts to flow out from the ballast layer

As noted in Section 5.3, piezometers readings show, that the water level does not reach the ballast/subballast boundary in the case of light rain (up to 33 mm/hr) for a short duration (up to 0.5 hr). Some outflow water was collected from the ballast layer during the light rainfall

for a short period, but emanated from the area of the separation layer (between the ballast and the subballast layers). In this case, the cumulative flow of ballast become in a shape of a line.

Table 5.9 presents the maximum measured ballast discharge when having a low-intensity rainfall at different times from ceasing of the rainfall when having different bed slope.

Table 5.9 Maximum measured ballast discharge when having a low-intensity rainfall

Rainfall intensity (33mm/hr)												
Time after rainfall (hr)	1			2			3			4		
Section slope (%)	0	3	5	0	3	5	0	3	5	0	3	5
Ballast condition	Maximum meassured ballast discharge (lit/hr)											
Clean ballast	8.7	9.5	11.6	4.8	0.2	0.1	0.2	0.1	0.1	0.2	0	0
10% quarry-fines	9	8.1	9.2	5.4	5.4	0.4	0.3	0.1	0.8	0.3	0	0.2
10% kaolin	8.1	8.8	9.6	7.1	5.5	0.8	1.9	0.4	0.3	1.4	0.2	0.2
15% quarry-fines	7.9	8.4	8.1	5.5	5.7	1	1.1	0.4	0.1	0.1	0.1	0.1
15% kaolin	8.1	8.2	7.9	7.2	7.9	4.9	0.4	0.3	0.3	0.3	0.2	0.2
20% quarry-fines	6.5	6.7	6.2	5.7	5.2	3.6	1.9	1.2	0.3	0.5	0.2	0.5
20% kaolin	6.6	7.2	7.9	4.6	6.1	5.3	3.3	0.2	0.3	1.1	0.2	0.4
30% quarry-fines	6.3	6.7	8.9	5.9	3.1	4.1	1.8	3.2	0.3	0.4	0.2	0.3
30% kaolin	6.7	6.4	7.9	4.6	5.4	4.9	3.5	1.7	0.7	0.9	0.2	0.7

The results for ballast and ballast discharge for the entire conducted tests are presented in Appendix I. As shown in Table 5.9, the ballast discharges were measured at 1, 2, 3 and 4 hours after rainfall end. Therefore, the cumulative ballast flow can be plotted against time. The line's slope for ballast cumulative flow shows the amount of water drained out of the ballast in each hour. Presented results confirm the decrease in the line's slope or ballast discharge as the time passes. The drop in rate of ballast discharge is due to drop in water level above the datum. As the time passes, the subballast and ballast (depending on the intensity of rainfall) drain the water towards the outlets. Draining the gravitational water lowers the measured water level in the section. Hence, the water head pressure which is resulted from water level, decreases. This results in a significant reduction in the rate of ballast discharge. The maximum rate of ballast discharge in first hour after cease of the rainfall is reported to be 11.6 L/h for clean ballast samples. This number eventually reduces in longer duration after ceasing of the rainfall. The maximum measured ballast discharge of 7.9, 3.3 and 1.4 L/h are reported for 2, 3 and 4 hours after ceasing of the rainfall, respectively.

As shown in Table 5.9, the section slope has a significant impact on rate of ballast discharge. Increasing the section slope from 0% to 5% increases the rate of ballast drainage up to 33% in the first hour after cease of the rainfall. With lowering the water level within first hour after finishing the rainfall, due to having the water level beneath the ballast/subballast interface, this ratio is likely to decrease significantly. The impact of section slope on section cumulative flow is reported to decrease in the third and fourth hour after finishing of the rainfall, because the ballast discharge was approximately zero and the water level was measured below the ballast/subballast edge in most of the cases. The small amount of water is measured from the ballast after the drop of water level below the subballast level. This was due to specific yield of fouled ballast samples.

Increasing the rainfall intensity to 45 mm/h results in rise of the water level above the ballast/subballast interface. In this case, the flow of water above the subballast is drained and collected from top of the separator sheet. Table 5.10 shows the maximum measured ballast discharge when having a medium-intensity rainfall at different times from cease of rainfall when having different section slopes.

Table 5.10 Maximum measured ballast discharge when having a medium-intensity rainfall

Rainfall intensity (45 mm/hr)												
Time after rainfall (hr)	1			2			3			4		
Section slope (%)	0	3	5	0	3	5	0	3	5	0	3	5
Ballast condition	Maximum meassured ballast discharge (lit/hr)											
Clean ballast	29.6	33.4	48.4	21.3	21.9	0.2	0.5	0.1	0	0.1	0	0
10% quarry-fines	15.4	22.2	27.4	23.2	18.6	9.4	14.6	6.4	0.7	0.7	0.2	0.2
10% kaolin	21.3	22.6	39.6	18.7	18.5	9.6	14.7	6.5	0.3	0.9	0.3	0.2
15% quarry-fines	14.6	24.6	27.5	14.4	20.7	10.8	11.9	1.7	0.2	0.7	0.5	0.2
15% kaolin	18.7	17.8	26.7	9.4	18.4	8.4	12.6	13	1.3	1.6	0.5	0.6
20% quarry-fines	14.2	23.2	26.4	12.9	21.2	11.2	11.8	1.9	0.9	1.4	0.5	0.6
20% kaolin	14.9	19.9	25.7	10.8	19.2	10.5	11.4	10.3	1.4	3.5	0.7	0.5
30% quarry-fines	13.9	20.9	27.2	12.3	22.2	12.1	9.9	2.8	1.4	0.9	0.5	0.3
30% kaolin	14.8	19.8	23.4	10.8	17.4	11.1	9.8	11.3	0.4	1.5	0.4	0.3

As presented in Table 5.10, increasing the rainfall intensity from 33 mm/h to 45 mm/h rises the maximum ballast discharge up to 10% and 9% for horizontal and sloping subgrade in first hour after cease of the rainfall, respectively. The change in rainfall intensity causes a rise in

the water table. The excess water sheds off from ballast/subballast boundary and forms a flow in ballast layer. This flow is collected towards the outlet from the top of the separator sheet. The flow of water through coarse ballast aggregates and higher water pressure caused by precipitation result in the difference in measured ballast discharge when having more intense rainfall event. The rise in rainfall intensity considerably affect the maximum measured ballast drainage in second and third hour after ceasing of the rainfall. This number is reported to increase up to 220% and 170% in horizontal and sloping surfaces, respectively, at second hour after cease of the rainfall. And for third hour, the increase of 340% is measured for maximum ballast discharge only for horizontal beds. Having slopping subgrade, helped the ballast to drain the entire gravitational water after 2 hours of rainfall and drop the water table below subballast layer. Generating a rainfall intensity of 45 mm/h does not affect the ballast discharge in fourth hour after ceasing of the rainfall, because eventually the gravitational water is completely drained out of ballast 4 hours after rainfall finishes in all the cases.

Increasing the rainfall intensity to 100 mm/h results in a sudden rise of water level above the ballast/subballast interface, especially with the presence of fouling materials. In this case, the flow of water above the subballast is drained and collected from top of the separator sheet. Table 5.11 shows the maximum measured ballast discharge when having a high-intensity rainfall at different times from cease of the rainfall when having different section slope.

Table 5.11 Maximum measured ballast discharge when having a high-intensity rainfall

Rainfall intensity (100 mm/hr)												
Time after rainfall (hr)	1			2			3			4		
Section slope (%)	0	3	5	0	3	5	0	3	5	0	3	5
Ballast condition	Maximum meassured ballast discharge (lit/hr)											
Clean ballast	32.9	48.9	53.6	28.8	21.2	28	15.6	1.1	0.6	1.3	0.5	0
10% quarry-fines	29.7	27.6	26.9	27.7	26	24.4	25.9	1.1	0.4	1.6	0.3	0.3
10% kaolin	29.5	27.2	31.9	26	23	17.9	26.9	2.6	0.3	2.1	0.5	0.4
15% quarry-fines	28.4	29.4	28.2	28.9	26.3	25	24.6	1.7	0.3	2.6	1.4	0.4
15% kaolin	26.5	26.3	28.1	27.7	25.5	21.2	26.5	3.9	0.6	1.8	1.6	0.2
20% quarry-fines	12.2	16.1	16.3	9.9	11.7	16.3	8.3	4.5	0.5	0.8	0.6	0.2
20% kaolin	10.9	15.3	15.9	9.2	14.5	15.3	8.4	1.4	0.5	1.1	0.4	0.2
30% quarry-fines												
30% kaolin												

As shown in Table 5.11, increasing the rainfall intensity from 45 mm/h to 100 mm/h rises the maximum ballast discharge up to 220% and 310% for horizontal and sloping subgrade in first hour after ceasing of the rainfall, respectively. The change in rainfall intensity causes a rise in the water table. The excess water sheds off from ballast/subballast boundary and forms a flow in ballast layer. This flow was collected towards the outlet from the top of the separator sheet. The flow of water through coarse ballast aggregates and higher water pressure caused by precipitation result in a massive difference in measured ballast discharge when having more intense rainfalls. The rise in rainfall intensity considerably affect the maximum measured ballast drainage in second and third hour after ceasing of the rainfall. Rapid rise in water level, and in some cases creation of over-flow especially in horizontal surfaces with relatively high fouling index delay the drainage of this layer. Having slopping subgrade, helped the ballast to drain the entire gravitational water after 2 hours of rainfall and drop the water table below subballast layer. Generating a rainfall intensity of 100 mm/h does not affect the ballast discharge in fourth hour after ceasing of the rainfall, because eventually the gravitational water is completely drained out of ballast 4 hours after rainfall ends, in all the cases.

As shown in Table 5.11 due to creation of over-flow in ballast layer, hydraulic flume test is not conducted on 30% relative ballast fouling ratio with high-intensity rainfall. This can damage the flume apparatus and causes the further delays in testing.

5.3.2.2 Initial values analysis

Results in Section 5.3.2.1, show that the relationship between the amount of water collected during the rainfall and the duration of rainfall is not linear. As previously noted, the initial amount of collected water depends on rainfall characteristics such as duration and intensity, bed slope and subballast infiltration capacity.

Results show that by keeping the rainfall intensity and section characteristics constant and changing the duration of rainfall only, the relation between the initial amounts of collected water within mentioned test is not a linear relationship. Therefore, an investigation is conducted on the initial amount of collected water within the entire conducted hydraulic flume tests. Figure 5.10 shows the initial amount of collected water for conducted test on clean, quarry-fines and kaolin fouled ballast with horizontal surface when having a medium-intensity rainfall of 0.5, 1 and 2 hours respectively.

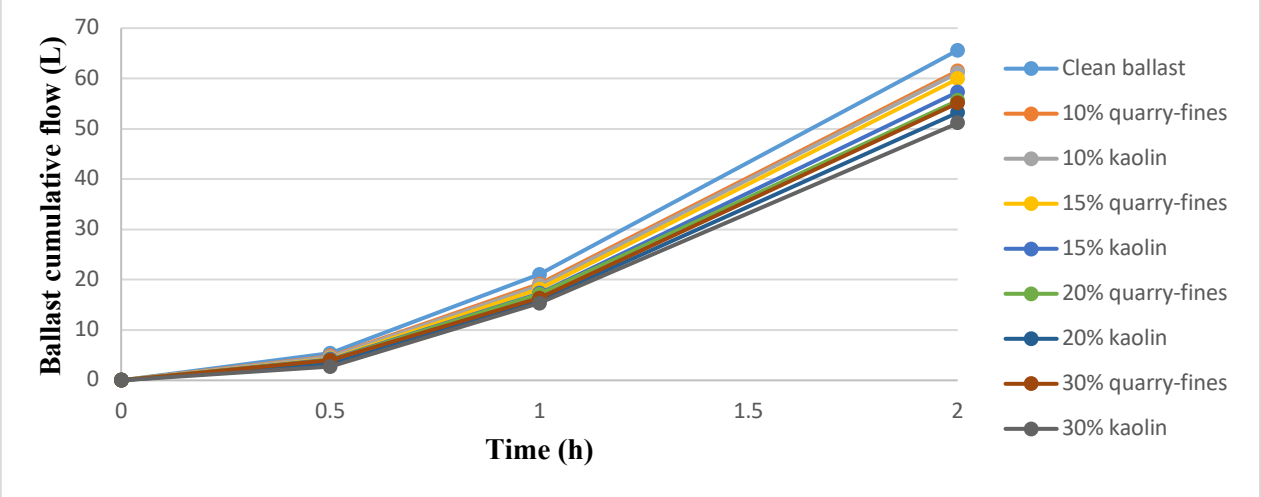


Figure 5.10 Initial amount of collected water from ballast for conducted test on clean, quarry-fines and kaolin fouled ballast with horizontal surface when having a medium-intensity rainfall for 0.5, 1 and 2 hours

Results confirm that with longer rainfall duration, more amount of water drains out of the ballast. As shown in Figure 5.10, the initial amount of collected water is more than the direct relationship in between the duration of rainfall. This is because with increased duration of rainfall, ballast gets saturated and outflow from this layer reaches a maximum value. After this water level rises above the subballast/ballast interface and it starts to drain from the ballast layer.

The initial amount of collected water is directly affected by the permeability values of the ballast. Therefore, in case the sample has reduced-permeability ballast layer on top, less

amount of water flows out initially. Complete set of results regarding the amount of collected water and discharge out of ballast are presented in Appendix I.

But there is an exception situation regarding initial collected water. As previously noted, when having longer duration high-intensity rainfall event, due to creation of overflow in horizontal surfaces, the initial amount of collected water out of the ballast is unpredictable. As reported in Section 5.3.2, the effects of section slope on the ability of ballast to drain water can be neglected due to formation of overflow.

5.3.3 Total outflow

As shown in Figure 5.3, quantifying the total outflow of track is important for identifying flow in the ballast/subballast. The total discharge out of the track section is the sum of flow from the subballast and ballast at any required time interval. Finding the total discharge out of system is essential for calculating the total gravitational remaining water presented in Section 5.3.4. The cumulative outflows of both layers were measured by separately catching water out of two layers. Using the scales, the mass of the collected water from each bucket are measured with respect to change in time. By assuming, the density of water is equal to $1 g/cm^3$, the mass of collected water in each bucket can be converted to the volume of water. By dividing the volume of water into the total wet area, the head of water can be achieved.

Subballast and ballast cumulative flows were measured at times of 1, 2, 3 and 4 hours after cessation of the rainfall. Therefore, the cumulative outflow for subballast and ballast can be plotted against time for the entire conducted tests. Apart from the outflow values, total section and rainfall characteristics of performed test are noted. As shown in Table 5.4, the measured values for ballast and subballast and ballast cumulative flows are presented on the left side of the table. The next column is “Total outflow” which is the sum of ballast and

subballast flows at each hour. The total results related to ballast and subballast cumulative flows in addition to the total discharge out of the flume section are presented in Appendix I.

Discharge out of the flume can be classified by the generated rainfall intensities. As previously mentioned in Section 3.2.3, the generated rainfall intensities in this study are:

1. 33 mm/h (light-rain event)
2. 45 mm/h (medium-rain event)
3. 100 mm/h (storm event)

Results in Sections 5.3.1.and 5.3.2 for subballast and ballast cumulative flows, respectively, confirm the finding of Heyns (2000) regarding the total discharge out of system. Heyns (2000) highlighted that track section reacts to occurred rainfall event in three different ways based on the intensity of precipitated rainfall.

In the first case, by having the light rain event, depending on the permeability of the placed ballast on top, the entered water starts to penetrate towards the subballast and the base of the flume as a result of gravity and applied pressure head from entering water. The entered water starts to saturate the subballast. Therefore, due to low intensity of rainfall and high permeability of ballast, subballast becomes partially saturated. In this case, there is now flow out of the ballast except the amount of generated rainfall adjacent to the separator sheet. The outflow hydrograph of this condition is shown in Figure 5.11.

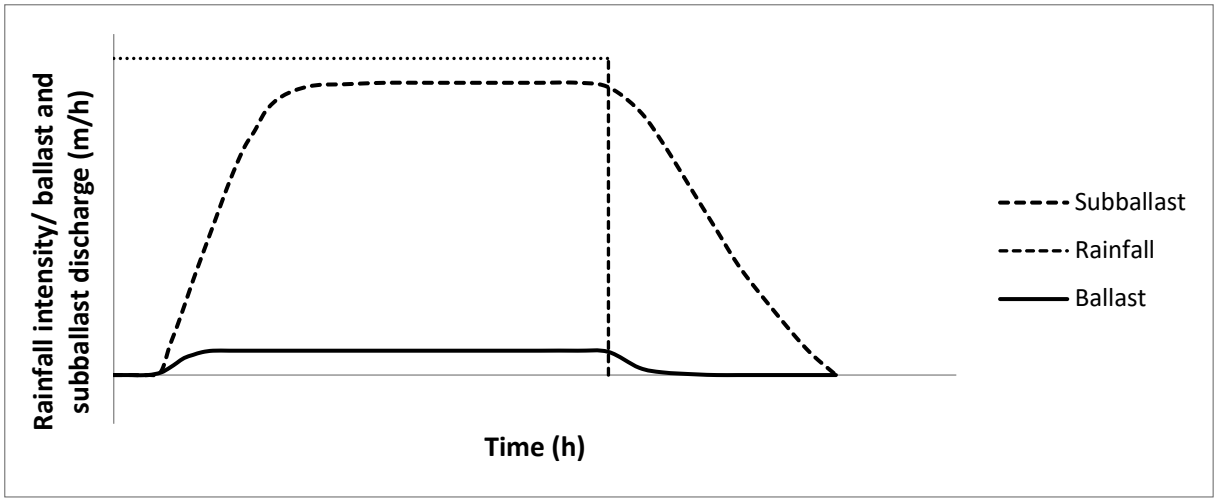


Figure 5.11 Discharge hydrograph when having partially saturated subballast (After Heyns, 2000)

By increasing rainfall intensity or by increasing relative ballast fouling ratio, the entered water starts to saturate the subballast. The excess water causes a rise in the water level. The rise in water level results in having a flow in ballast/subballast boundary after saturation of subballast. The outflow hydrograph of this scenario is shown in Figure 5.12.

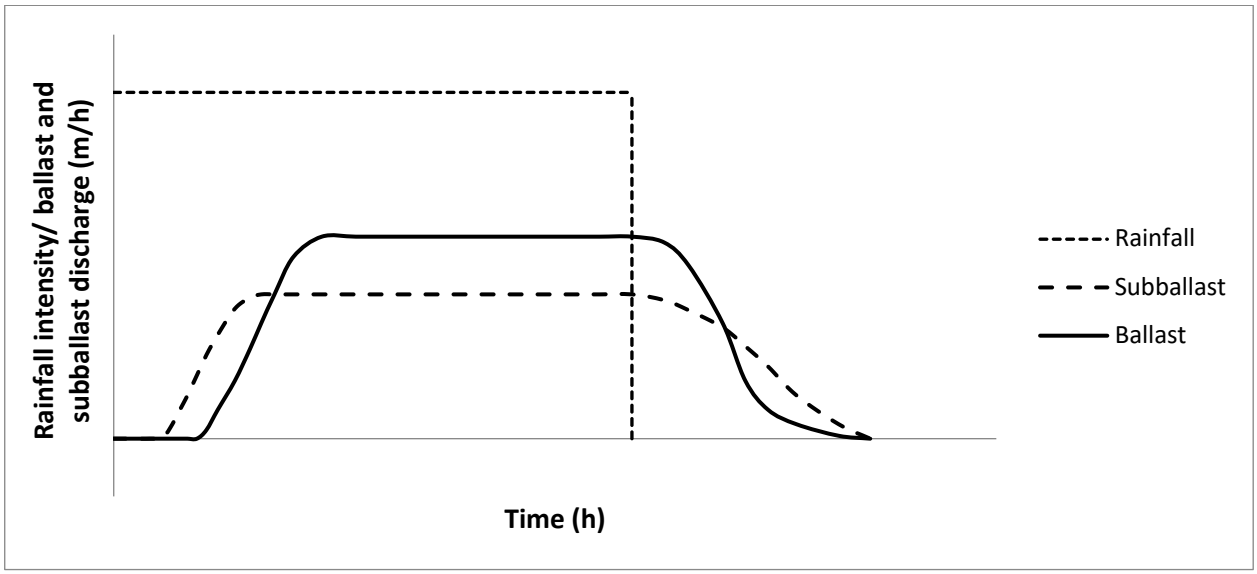


Figure 5.12 Discharge hydrograph for medium rain event when subballast saturates (After Heyns, 2000)

When there is a storm event or the ballast in highly fouled, or the rainfall intensity is greater e than the subballast infiltration capacity, water will flow out along or near the

ballast/subballast interface. In such cases, the increase in cumulative flow of ballast is significant since little water in retained in the system. The outflow hydrograph for such a scenario (storm event) may take the form shown in Figure 5.13.

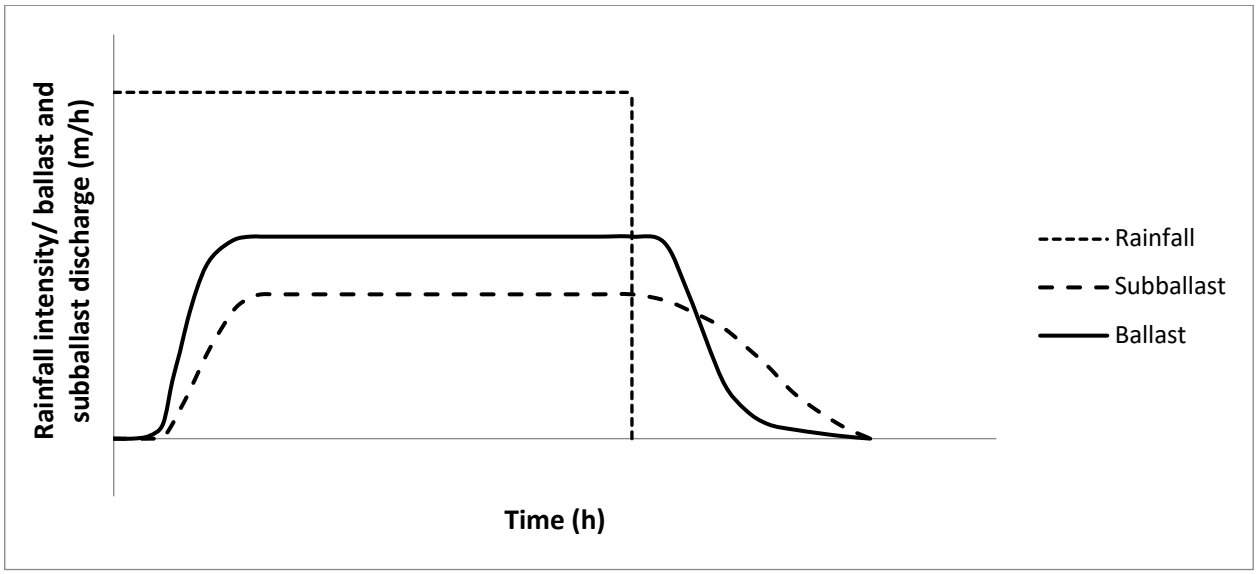


Figure 5.13 Discharge hydrograph for storm even (After Heyns, 2000)

5.3.4 Gravitational remaining water

Due to the ballast and subballast specific yield and uncertainty about the exact initial moisture content for both layers (particularly in cases of repeat tests or where tests were followed a previous test for the same set-up), the exact amount of remaining water values for the section cannot be determined. Therefore, the total remaining water can be estimated by subtracting the total discharge out of system from the total input. The total remaining gravitational water for all of the conducted hydraulic flume test as presented in Appendix I.

In order to investigate the ability of section to drain water, it is necessary to compare the results of different conducted tests on various section and rainfall characteristics including slope, ballast contamination, rainfall intensity and rainfall duration. Section and rainfall characteristics for the conducted tests are presented in the following template:

Ballast condition (%) - Slope (%) - Intensity of rainfall (mm/h)

So as an example, 10% kaolin - 3 - 33 represents the testing condition for 10% kaolin fouled sample with 3% section slope and rainfall intensity of 33/h.

Figure 5.14 shows the proportion of gravitational water flowed out of the system within 4 hours to the total amount of precipitated water for 0.5 h rainfall at intensity of 33mm/h.

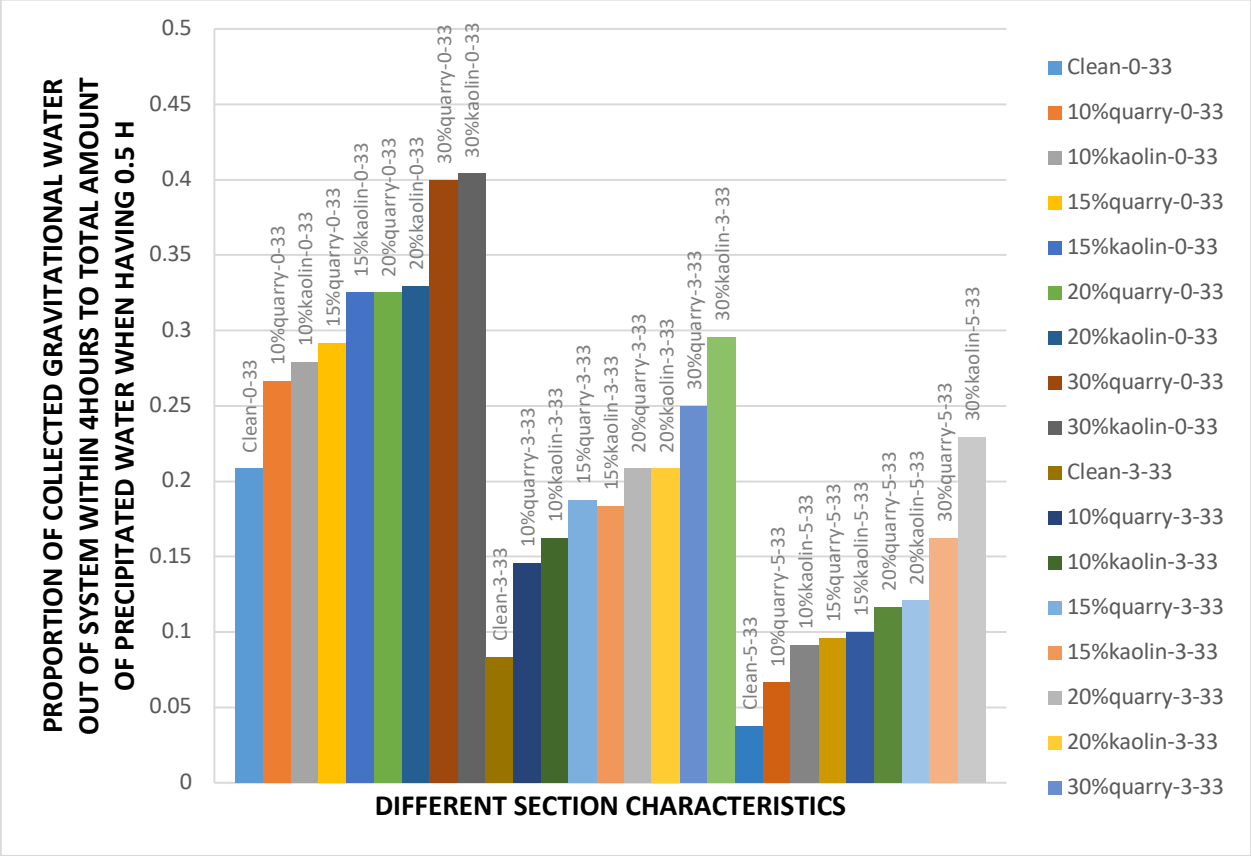


Figure 5.14 Proportion of collected gravitational water out of system within 4 hours to total amount of precipitated water when having 0.5 h rainfall duration at intensity of 33 mm/h

The rainfall is for 0.5 h with intensity of 33 mm/h. Therefore, the rate of inlet flow is equal to 0.8 L/min as explained in Section 3.2.3. This, results in total inflow of 24 litres within 0.5 h. Presented numbers in Figure 5.14 are resulted from dividing the total discharge out of flume at 4 hours after ceasing of the rainfall over 24 litres which is the total inlet. Finally, the results are grouped based on the section slope and ballast contamination condition.

Results shown in Figure 5.14 confirm the effect of bed slope on the ability of draining water. Sections with sharper slopes drain considerably more amount of water within 4 hours after ceasing of the rainfall. The amount of remaining water is more observable when comparing a horizontal surface to 3% or 5% section slope. Results show that when having clean ballast, horizontal section accommodates over 20% of entered water after 4 hours while by increasing the section slope to 3% and 5%, this number is reduced up to 8% and 3% respectively. As explained in Sections 5.3.1 and 5.3.2, the presence of bed slope creates the elevation head which results in formation of a flow within ballast and subballast towards open end of the container.

Results highlight the effect of ballast fouling ratio on section remaining gravitational water. Considerable effect of fouling material is more evident by keeping the section and rainfall characteristics constant and changing the ballast properties. Results suggest that as the degree of fouling increases, the total remaining water within the section increases. As described in Sections 5.3.1 and 5.3.2 adding fouling material is caused by adding finer particles to ballast layer. Adding fines can reduce the permeability and void ratio of ballast significantly as noted in Sections 4.1 and 4.4, respectively. Therefore, the specific yield of this layer decreases significantly. This results in the tendency of water to stick to mixture of ballast and fouling materials. Hence as the water tends to stick to uniformly fouled ballast, the amount of remaining water in the section is increasing.

Results show that the amount of remaining water is exactly sorted by ballast degree of contamination. As shown in Figure 5.14, the amount of remaining water is not sorted by the permeability of ballast and directly depends on specific layer of this layer.

To investigate the effect of rainfall intensity on remaining water, it is necessary to calculate the proportion of collected gravitational water out of the system within 4 hours to the total

amount of precipitated water when having 0.5 h rainfall duration at intensity of 45 mm/h in Figure 5.15.

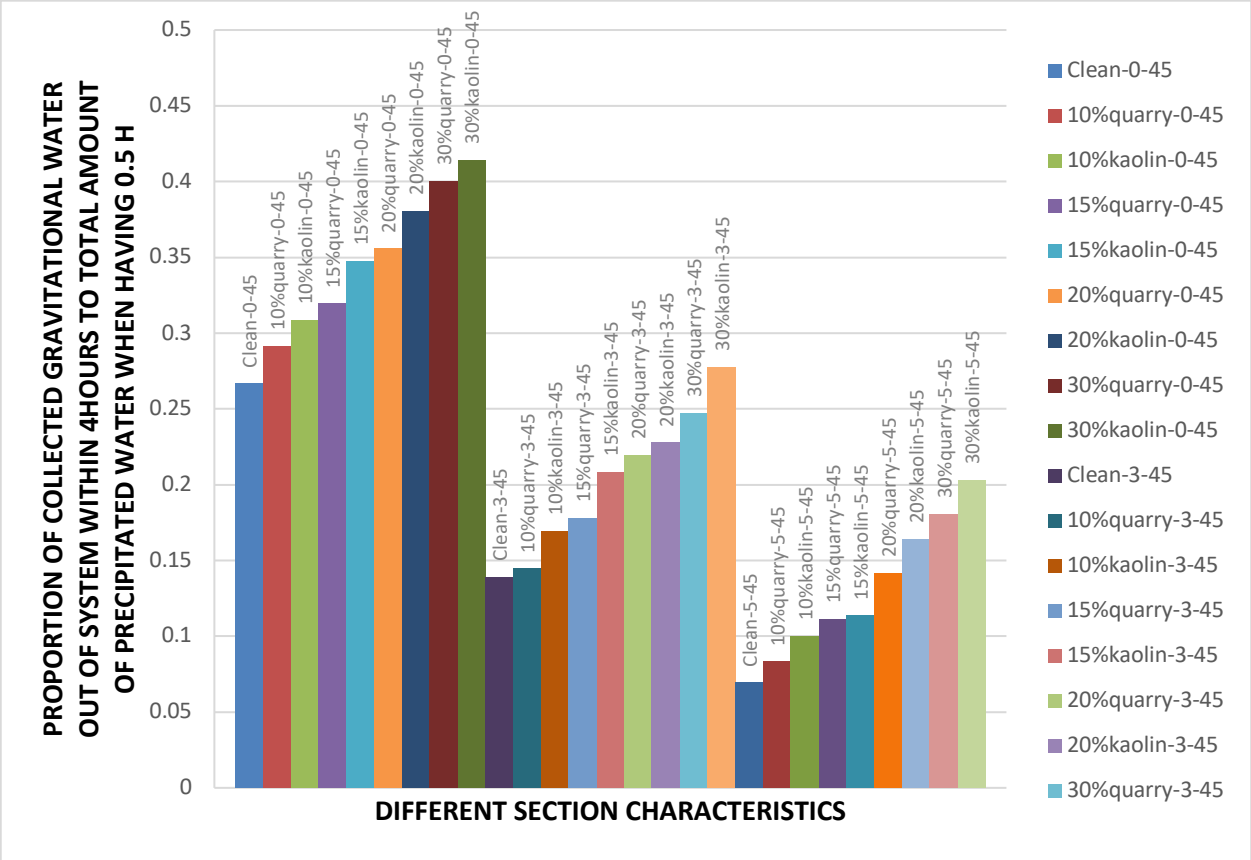


Figure 5.15 Proportion of collected gravitational water out of system within 4 hours to total amount of precipitated water when having 0.5 h rainfall duration at intensity of 45 mm/h

As noted, the generated rainfall is only 0.5 h with an intensity of 45 mm/h. Therefore, the rate of inlet flow is equal to 1.2 L/min as explained in Section 3.2.3. This results in total inflow of 36 litres within 0.5 h. Presented numbers in Figure 5.15 are resulted from division of the total discharge out of the flume at 4 hours after ceasing of the rainfall to 36 litre which is the total inlet. Finally, the results are grouped based on the bed slope and ballast contamination condition.

Results in Figure 5.15 confirm the effect of slope on the ability of section to drain water. Sections with sharper slopes drains considerably more amount of water within 4 hours after ceasing of the rainfall. The amount of remaining water is more observable when comparing a horizontal surface to 3% or 5% section slopes. Results show that when having clean ballast, horizontal section accommodates over 26% of entered water after 4 hours while by increasing the section slope to 3% and 5%, this number is reduced to 13% and 7% respectively. As explained in Sections 5.3.1and 5.3.2, the presence of slope creates an elevation head which results in formation of flow within the ballast and subballast towards open end of the container.

Results also highlight the effect of ballast fouling on remaining gravitational water. Considerable effect of fouling material is more evident by keeping the section and rainfall characteristics constant and changing the ballast properties. Results prove that as the degree of fouling increases, the total renaming water within the section increases. As described in Sections 5.3.1 and 5.3.2 adding fouling material is caused by adding finer particles to ballast layer. Adding fines can reduce the permeability and void ratio of ballast significantly as explained in Sections 4.1 and 4.4, respectively. Therefore, the specific yield of this layer decreases significantly. This results in the tendency of water to stick to mixture of ballast and fouling materials. Hence as the water tends to stick to uniformly fouled ballast, the amount of remaining water in the section is increasing.

Results are suggesting that the amount of remaining water is exactly sorted by ballast degree of contamination. As demonstrated in Figure 5.14, the amount of remaining water is not sorted by the permeability of ballast and directly depends on specific layer of this layer.

To investigate the effect of rainfall intensity on remaining water, it is necessary to calculate the proportion of collected gravitational water out of the system within 4 hours to the total amount of precipitated water when having 0.5 h rainfall duration at intensity of 100 mm/h in Figure 5.16.

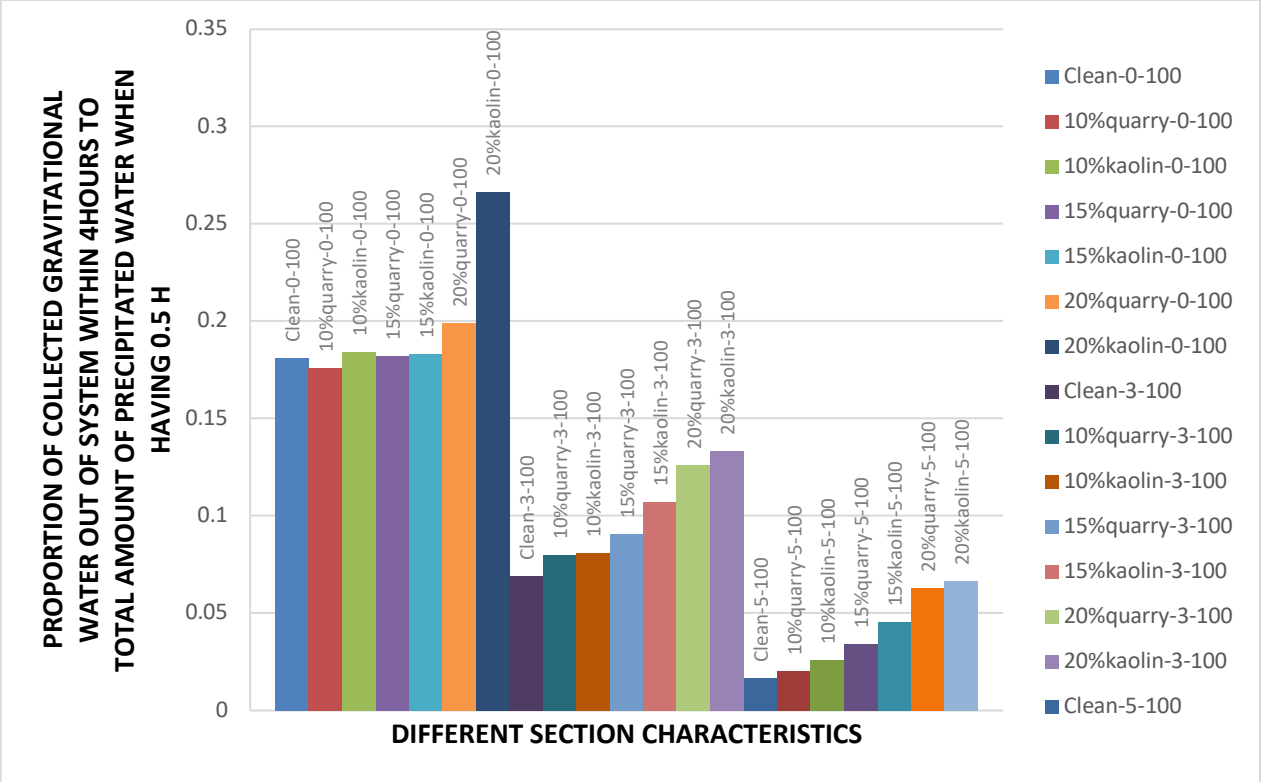


Figure 5.16 Proportion of collected gravitational water out of system within 4 hours to total amount of precipitated water when having 0.5 h rainfall duration at intensity of 100 mm/h

As previously noted, the rainfall is only for 0.5 h with intensity of 100 mm/h. Therefore, the rate of inlet flow is equal to 2.8 L/min as explained in Section 3.2.3. This results in total inflow of 84 litres within 0.5 h. Presented numbers in Figure 5.16 are resulted from division of the total discharge out of flume at 4 hours after ceasing of the rainfall to 84 litre which is the total inlet. Finally, the results are grouped based on the section slope and ballast contamination condition.

Results in Figure 5.16 confirm the effect of slope on the ability of section to drain water. Sections with sharper slopes drain considerably more amount of water within 4 hours after ceasing of the rainfall. But, as it was explained in Section 5.3.2.1 having high-intensity rainfall on horizontal surfaces can create an overflow within ballast layer. As the ballast become progressively fouled, the permeability of this layer is reduced significantly. Having high-intensity precipitation on top of fouled ballast with low permeability values causes a sudden rise in the water level. Having a risen water level and no elevation head form an overflow. Creation of overflow causes the section to act unpredictably. As mentioned in Section 5.3.1, the overflow does not affect the flow of water in the subballast and it is evident on top of ballast layer. Therefore, the discharge out of the ballast is affected by formation of overflow. This effect continues till the point that the water level drops below the ballast level. After that, section acts based on its characteristics and the drainage behaviour of the section can be predicted.

Results also highlight the effect of ballast fouling on remaining gravitational water. Considerable effect of fouling material is more evident by keeping the section and rainfall characteristics constant and changing the ballast properties. Results prove that as the degree of fouling increases, the total renaming water within the section is increasing. As described in Sections 5.3.1 and 5.3.2 adding fouling material is caused by adding finer particles to ballast layer. Adding fines can reduce the permeability and void ratio of ballast significantly as explained in Sections 4.1 and 4.4, respectively. Therefore, the specific yield of this layer decreases significantly. This results in the tendency of water to stick to mixture of ballast and fouling materials. Hence as the water tends to stick to uniformly fouled ballast, the amount of remaining water in the section is increasing.

Results are confirming that the amount of remaining water is exactly sorted by ballast degree of contamination. As shown in Figure 5.14, the amount of remaining water is not sorted by the permeability of ballast and directly depends on specific layer of this layer.

As shown in Figure 5.16, the amount of remaining water is not sorted based on the ballast permeability and directly depends on the specific yield of this layer when there is no overflow created.

In order to investigate the effect of rainfall duration on gravitational remaining water, it is essential to undertake a study on the section remaining water when having longer duration of rainfall. Figure 5.17 shows the amount of remaining gravitational water in the system within 4 hours when having 0.5, 1- and 2-hours rainfall duration at intensity of 45 mm/h.

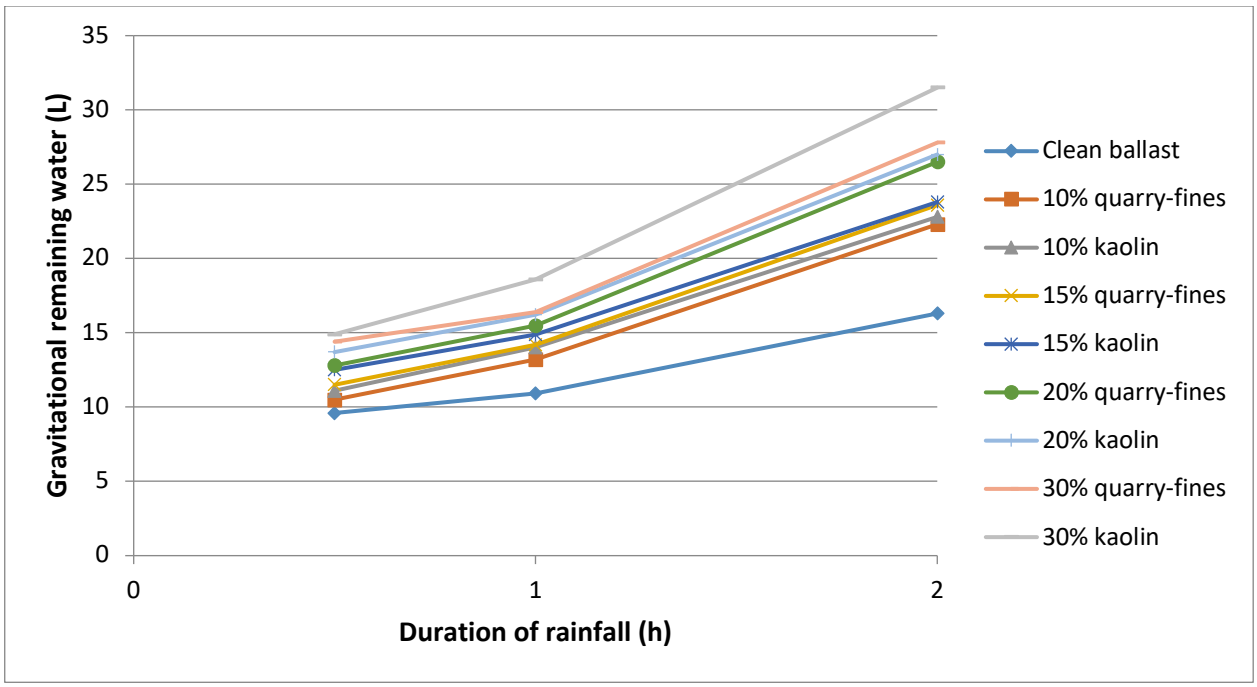


Figure 5.17 Remaining gravitational water in the system within 4hours when having 0.5, 1- and 2-hours rainfall duration at intensity of 45 mm/h

As shown in Figure 5.17, increasing the duration of rainfall results in increasing the remaining gravitational water within the section. The rate of increment in remaining water is not linear. A longer rainfall duration results in elevation of the water level. Rise in the water

level results in fully saturation of subballast in first step and partially saturation of ballast. As noted previously, by adding fouling material to ballast, the specific yield of this layer decreases. Water tends to stick to fouled ballast particles and this results in a higher amount of remaining gravitational water. This situation is also happened in between water and the body of the flume as the boundary condition. Water tend to stick to body of the flume as the water level rises within the section. Therefore, an investigation is needed to be performed on the water level in the section which in presented in Section 5.4.

5.4 Side piezometers readings

In this section, an investigation is undertaken regarding the water level in the flume cross-section. As previously described in Section 3.2.1, the hydraulic flume drainage monitoring system consists of 6 piezometers at the base of the container. The location and spacing of mentioned piezometers are illustrated in Section 3.2. The water level was recorded with respect to time during the entire conducted tests. The readings are in accordance to flow of water within the section shown in Figure 5.18. Therefore, piezometers readings for all the performed tests consist of:

1. A lag-time which was covered in Section 5.2
2. Unsteady increase in water level
3. Steady state
4. Unsteady decrease in water level starting at cease of rainfall

Figure 5.18 demonstrates the typical piezometers reading example taken for a test.

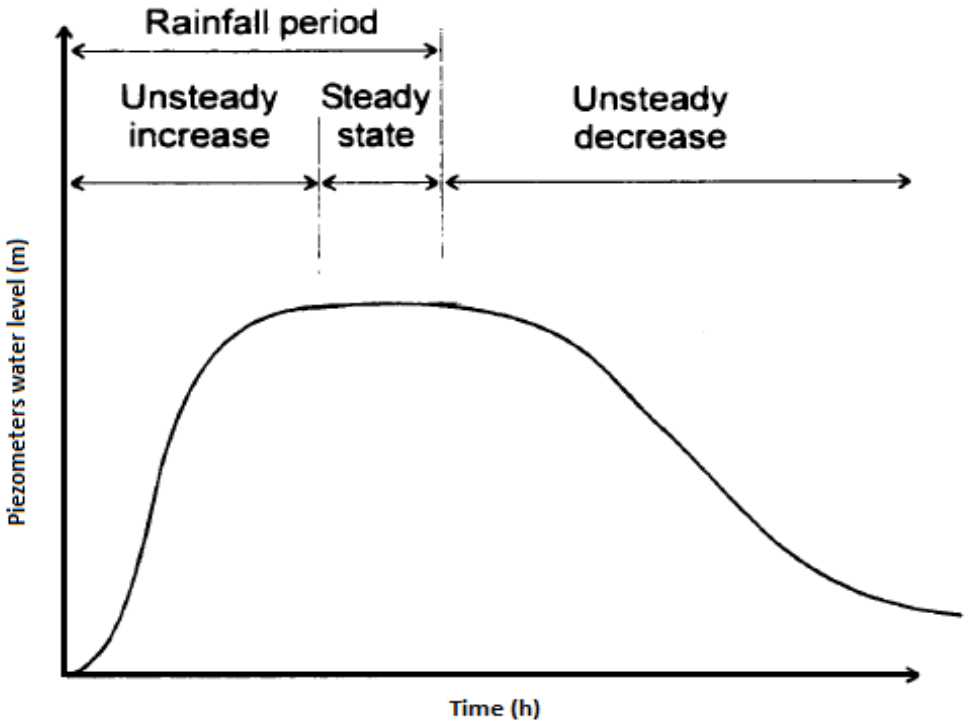


Figure 5.18 Typical piezometers readings taken for hydraulic flume test (Heyns, 2000)

The base piezometers reading displayed a rapid rise in the water level after the lag-time. Depending on section and rainfall characteristics, the section eventually reaches a steady-state or equilibrium condition, where as described in Section 5.2, the total outflow of system is equal to the generated rainfall intensity on top of the ballast. In this period, the piezometers do not show any sign of movements. By ceasing of the rainfall, the piezometers show a decrease in water level measurements as the water drains out of ballast and subballast.

The section piezometers reading for all the tests are presented in Appendix II. Duo to high number of tests conducted and limited space only the key findings are highlighted in this section. Table 5.12 shows the typical set of results for clean ballast sample with horizontal slope when generating 33 mm/h rainfall for 30 min.

Table 5.12 Summary of piezometers reading for typical hydraulic flume test on clean ballast sample with generated light rain for 0.5 h on horizontal slope

y			x1	x2	x3	x4	x5	x6
			Distance from centreline	Time	Slope	Rainfall intensity	Rainfall duration	Ballast permeability
WI (m)	Delay (min)	Time after previous test (Day)	d (m)	t (h)	i	q (mm/hr)	D (h)	Kb (m/s)
0.15			0.4	0	0	33	0.5	0.32
0.15			0.7	0	0	33	0.5	0.32
0.15			1	0	0	33	0.5	0.32
0.15			1.3	0	0	33	0.5	0.32
0.14			1.6	0	0	33	0.5	0.32
0.13			1.9	0	0	33	0.5	0.32
0.14			0.4	0.5	0	33	0.5	0.32
0.14			0.7	0.5	0	33	0.5	0.32
0.14			1	0.5	0	33	0.5	0.32
0.13			1.3	0.5	0	33	0.5	0.32
0.13			1.6	0.5	0	33	0.5	0.32
0.12			1.9	0.5	0	33	0.5	0.32
0.12			0.4	1	0	33	0.5	0.32
0.12			0.7	1	0	33	0.5	0.32
0.12			1	1	0	33	0.5	0.32
0.12			1.3	1	0	33	0.5	0.32
0.12			1.6	1	0	33	0.5	0.32
0.11	16	3	1.9	1	0	33	0.5	0.32
0.09			0.4	2	0	33	0.5	0.32
0.09			0.7	2	0	33	0.5	0.32
0.09			1	2	0	33	0.5	0.32
0.08			1.3	2	0	33	0.5	0.32
0.08			1.6	2	0	33	0.5	0.32
0.05			1.9	2	0	33	0.5	0.32
0.07			0.4	3	0	33	0.5	0.32
0.07			0.7	3	0	33	0.5	0.32
0.07			1	3	0	33	0.5	0.32
0.07			1.3	3	0	33	0.5	0.32
0.07			1.6	3	0	33	0.5	0.32
0.04			1.9	3	0	33	0.5	0.32
0.05			0.4	4	0	33	0.5	0.32
0.04			0.7	4	0	33	0.5	0.32
0.04			1	4	0	33	0.5	0.32
0.04			1.3	4	0	33	0.5	0.32
0.04			1.6	4	0	33	0.5	0.32
0.03			1.9	4	0	33	0.5	0.32

As shown in Table 5.12, the measured values for piezometers readings are presented on the left side of the table. The next columns are “Delay” and “Time from previous test” which are covered in Section 5.2. On the right side of the table, the entire section and rainfall characteristics are provided. These characteristics consist of bed slope, rainfall intensity, rainfall duration, ballast permeability values and the distance from centreline. On the top right hand side of the tables, the entire parameters affecting the piezometers readings are listed from x1 to x6 which include time after ceasing of the rainfall and characteristics of mentioned rainfall and section. By using mentioned measurements for an individual test, measured water level can be plotted against time as shown in Figure 5.19.

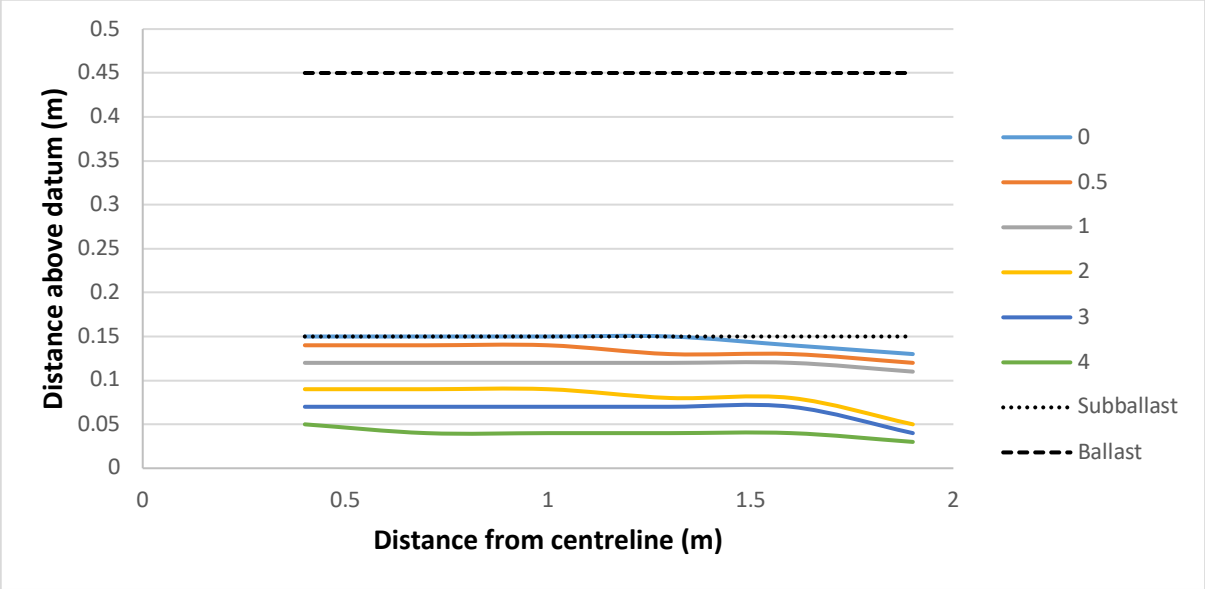


Figure 5.19 Measured piezometers reading for low-intensity rainfall for 0.5 h on clean ballast on horizontal surface

By increasing rainfall intensity, the system outflow will be greater than subballast drainage capacity. As explained in Section 5.3, the excess water forms a flow at/over ballast/subballast interface. In this case, water drained out of ballast and subballast at the same time. Figure 5.20 shows the piezometers reading for the section when subballast is fully saturated.

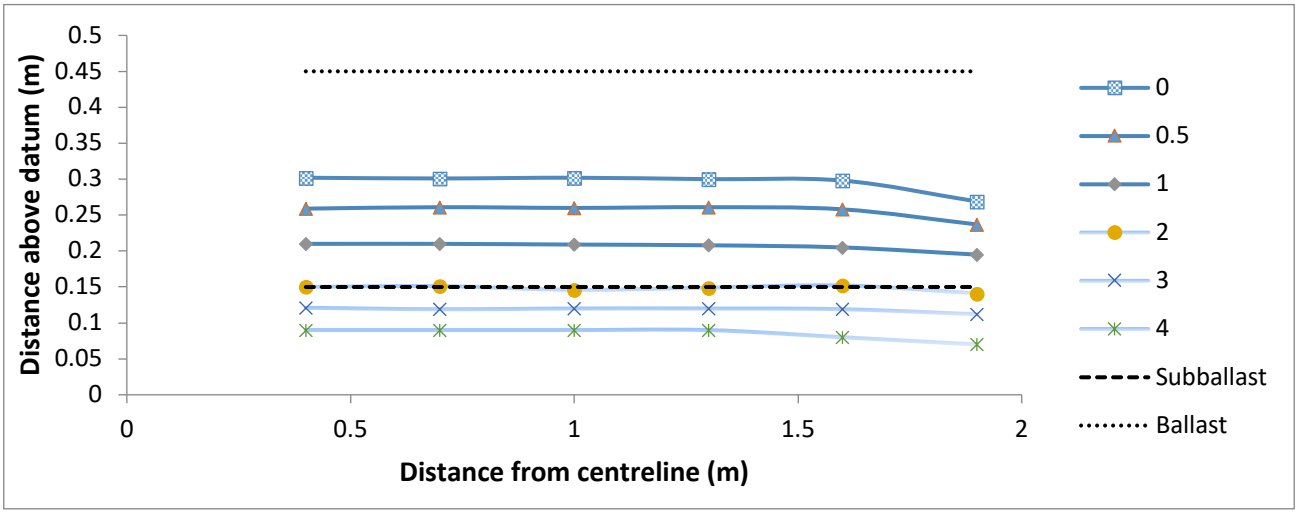


Figure 5.20 Entire piezometers reading for medium-intensity rainfall for 1 h on clean ballast on horizontal surface

As shown in Figure 5.20, time "0" refers to ceasing of the rainfall. As the time passes, after cease of the rainfall, the water level drops. After 2 hours, the level of water drops below ballast/subballast interface. Results in Figure 5.20 are in accordance with ballast discharge mentioned in Section 5.3.2. As the water level drops below ballast/subballast edge the flow of water from ballast stops and the cumulative ballast flow lines becomes linear. The rate of discharge out of subballast is covered in Section 5.3.1. The capacity of subballast to drain water and factors affecting that are covered in Section 5.3.1. The readings are taken up to 4 hours after finishing of the rainfall event. Apart from the total section water level, the individual piezometers readings are provided in Appendix II. As an example, the readings for piezometer #3 is provided for the mentioned testing condition in Figure 5.21.

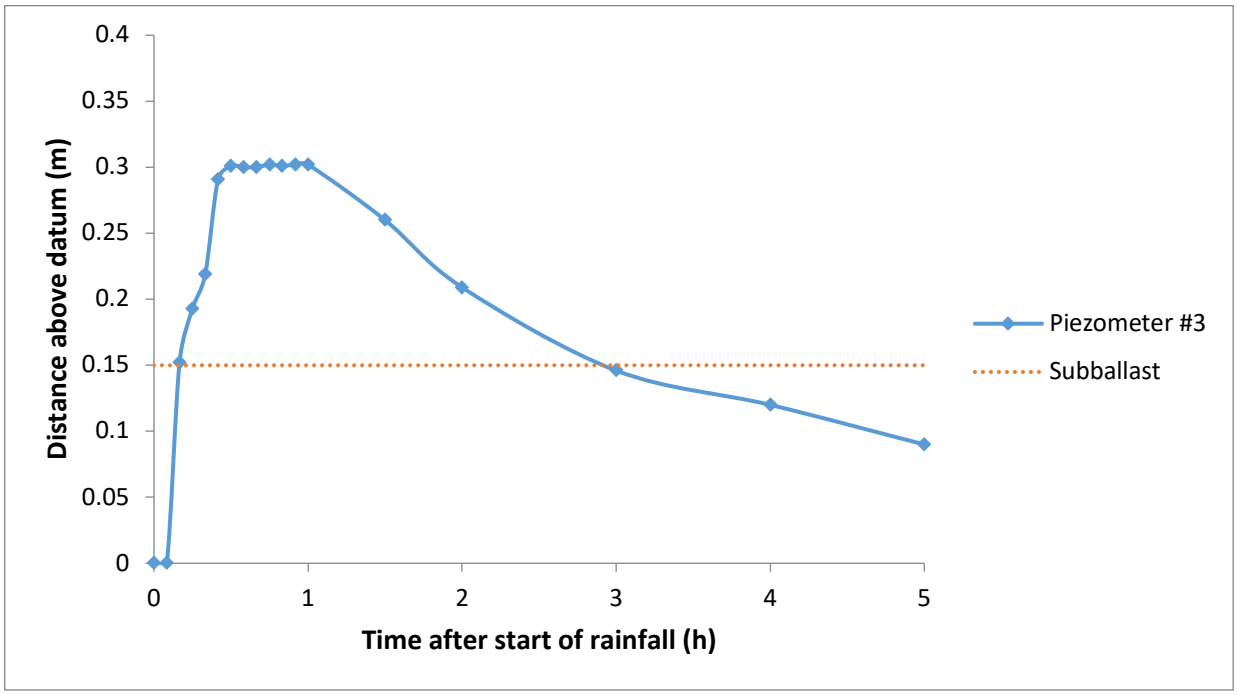


Figure 5.21 Piezometer3 readings for medium intensity rainfall for 1 h duration on horizontal surface with clean ballast

Results show the lag-time of 9 minutes for mentioned test as noted in Section 5.2. Delay is followed by an unsteady increase in water level as highlighted in Figure 5.21. After this level section achieves a steady-state or equilibrium when outlet is equal to inlet depending on the

intensity of rainfall and section characteristics covered in Sections 5.3 in terms of ballast and subballast drainage capacity. After 1 h of rainfall, the device was disconnected from the tap. Then the unsteady decrease is evident amongst the entire installed piezometers. Readings are taken at 0, 0.5, 1, 2, 3 and 4 hours after ceasing of the rainfall. Therefore time "0" refers to start of the rainfall in Figure 5.21. Having the entire piezometers readings within mentioned intervals, water level can be plotted against time.

As the rainfall finishes, the piezometers readings started to drop. The rate of drop depends on the section slope. As highlighted before, the slope has significant effect on the track drainage. Observation made during the hydraulic flume tests and presented results in Appendix II show the curved-shape of water level by increasing the section slope. The least measured piezometers reading was reported to be Piezometer #6 closest to the outlet in each performed test. Section shows the same behaviour in regarding the draining of water after ceasing of the rainfall. The rate of drop in the water level in terms of piezometers readings are in accordance with discharge out of the flume covered in Section 5.3.

Results show that amongst the entire conducted tests, the subballast becomes fully saturated except when having low-intensity rainfall over short period of time as it is noted in Section 5.3.1.

5.5 Repeatability

The total number of conducted hydraulic flume tests is presented in Section 5.1. Tables 5.1 to 5.3 shows the total number of performed laboratory tests on clean, quarry fines and kaolin fouled ballast samples respectively. Due to high numbers of conducted hydraulic flume tests, the difficulty of washing and/or replacing the required ballast for each test, difficulty in cleaning the container in order to minimise the boundary condition affecting on the test

results and insufficient time, it is decided to accomplish a number of tests only once. As presented in Tables 5.1 to 5.3, some of tests are conducted up to 6 times in order to measure the error in readings. As an example, clean ballast samples are tested on horizontal section with 33 mm/h rainfall for 0.5 h for 6 times. Each set of readings is presented in Table 5.13 distinctively. The average values are calculated amongst the measured readings for each piezometer. The absolute of maximum difference from average is calculated for each data set. This is followed by the calculation of the percentage error from average for each set of results. The maximum percentage of error is achieved by dividing the absolute maximum difference measured to readings average for each data set. The entire mentioned parameters are presented in Table 5.13. The maximum percentage of error is reported to be under 4% in majority of the cases which is satisfactory. When having a relatively low water level readings, this percentage is reported to be up to 9.5%. It is important to mention that, the high calculated values in maximum error percentage is due to the reduction of average values in this case and due to increased amount of measured error in readings as presented in Table 5.13.

Table 5.13 Measured errors for 6 different hydraulic flume tests with clean ballast samples over a horizontal surface with rainfall intensity of 33 mm/h for 0.5 h

Test #1	Test #2	Test #3	Test #4	Test #5	Test #6	Distance from centreline (m)	Time (h)	Slope (%)	Rainfall intensity (mm/hr)	Rainfall duration (h)	Average reading	Maximum measurement error from average	percentage error
Readings													
0.151	0.149	0.153	0.154	0.147	0.149	0.4	0	0	33	0.5	0.1505	0.0035	2.3255814
0.151	0.148	0.153	0.154	0.148	0.15	0.7					0.15067	0.003333333	2.2123894
0.15	0.147	0.151	0.153	0.148	0.151	1					0.15	0.003	2
0.152	0.146	0.15	0.154	0.149	0.151	1.3					0.15033	0.004333333	2.8824834
0.143	0.141	0.139	0.136	0.141	0.141	1.6					0.14017	0.004166667	2.9726516
0.129	0.129	0.127	0.134	0.131	0.131	1.9					0.13017	0.003833333	2.9449424
0.139	0.142	0.143	0.143	0.136	0.139	0.4	0.5				0.14033	0.004333333	3.087886
0.139	0.141	0.142	0.141	0.139	0.139	0.7					0.14017	0.001833333	1.3079667
0.139	0.141	0.141	0.142	0.139	0.139	1					0.14017	0.001833333	1.3079667
0.128	0.133	0.131	0.132	0.131	0.13	1.3					0.13083	0.002833333	2.1656051
0.128	0.132	0.131	0.131	0.13	0.13	1.6					0.13033	0.002333333	1.7902813
0.118	0.121	0.122	0.121	0.119	0.121	1.9					0.12033	0.002333333	1.9390582
0.121	0.12	0.122	0.122	0.117	0.119	0.4	1				0.12017	0.003166667	2.6352288
0.122	0.121	0.122	0.121	0.117	0.119	0.7					0.12033	0.003333333	2.7700831
0.123	0.12	0.123	0.121	0.116	0.118	1					0.12017	0.004166667	3.4674064
0.123	0.121	0.121	0.122	0.116	0.119	1.3					0.12033	0.004333333	3.601108
0.122	0.121	0.12	0.121	0.117	0.12	1.6					0.12017	0.003166667	2.6352288
0.111	0.109	0.109	0.112	0.107	0.112	1.9					0.11	0.003	2.7272727
0.093	0.096	0.094	0.089	0.087	0.085	0.4	2				0.09067	0.005666667	6.25
0.092	0.094	0.091	0.089	0.09	0.089	0.7					0.09083	0.003166667	3.4862385
0.091	0.092	0.09	0.089	0.088	0.091	1					0.09017	0.002166667	2.4029575
0.082	0.081	0.081	0.081	0.078	0.079	1.3					0.08033	0.002333333	2.9045643
0.082	0.081	0.08	0.081	0.078	0.079	1.6					0.08017	0.002166667	2.7027027
0.052	0.051	0.051	0.05	0.049	0.049	1.9					0.05033	0.001666667	3.3112583
0.072	0.071	0.071	0.07	0.069	0.071	0.4	3				0.07067	0.001666667	2.3584906
0.071	0.071	0.07	0.069	0.069	0.07	0.7					0.07	0.001	1.4285714
0.071	0.07	0.071	0.07	0.07	0.069	1					0.07017	0.001166667	1.6627078
0.071	0.071	0.071	0.069	0.071	0.069	1.3					0.07033	0.001333333	1.8957346
0.071	0.07	0.072	0.069	0.07	0.069	1.6					0.07017	0.001833333	2.6128266
0.042	0.041	0.041	0.039	0.037	0.039	1.9					0.03983	0.002833333	7.1129707
0.051	0.052	0.051	0.05	0.048	0.049	0.4	4				0.05017	0.002166667	4.3189369
0.044	0.041	0.041	0.038	0.039	0.038	0.7					0.04017	0.003833333	9.5435685
0.043	0.041	0.041	0.039	0.038	0.038	1					0.04	0.003	7.5
0.042	0.041	0.042	0.039	0.039	0.038	1.3					0.04017	0.002166667	5.3941909
0.042	0.041	0.042	0.039	0.038	0.038	1.6					0.04	0.002	5
0.033	0.032	0.031	0.028	0.029	0.031	1.9					0.03067	0.002666667	8.6956522

Chapter Six NUMERICAL MODELLING FOR HYDRAULIC FLUME TEST

The effects of the presence of free water within the track section as well as a design approach for track drainage systems are covered in Chapter 2. This chapter also covers the necessity for predicting water level and remaining water in the track support and, the effect of increased water content in the ballast and subballast layers and the impact on the track section's useful life. Rushton and Ghataora (2009a) and Youngs and Rushton (2009) emphasised on the paucity of numerical and analytical studies on movement of water in the track cross-section ballast and subballast layers. Heyns (2000), O'Sullivan (2009) and Geotechnical Track Drainage Manual (2009) noted the importance of predicting the section discharge and the water level in the cess for designing the railway track drainage system. In this chapter, data collected from laboratory tests described in Chapters 2 3 and discussed in Chapter 5 are analysed using statistical methods to identify trends in order to predict the discharge out of track section consisting of ballast and subballast. This work is based on the assumption that the subgrade layer is impermeable and only rain water is entering the system. The proposed models can be grouped as follows:

1. Predicting the water level from the base of the flume at any required time after the ceasing of the rainfall and distance from the centreline
2. Predicting the discharge out of ballast and subballast

6.1 Water level prediction

6.1.1 Existing predictions

According to Rushton and Ghataora (2009), by using time-variant Dupuit-Forchheimer solution presented in Equation 6.1, the water table in the rail track cross section can be

estimated for any track section as depicted in Figure 6.1. Basis of their prediction equation is shown in Figure 6.1. (Rushton & Ghataora, 2009)

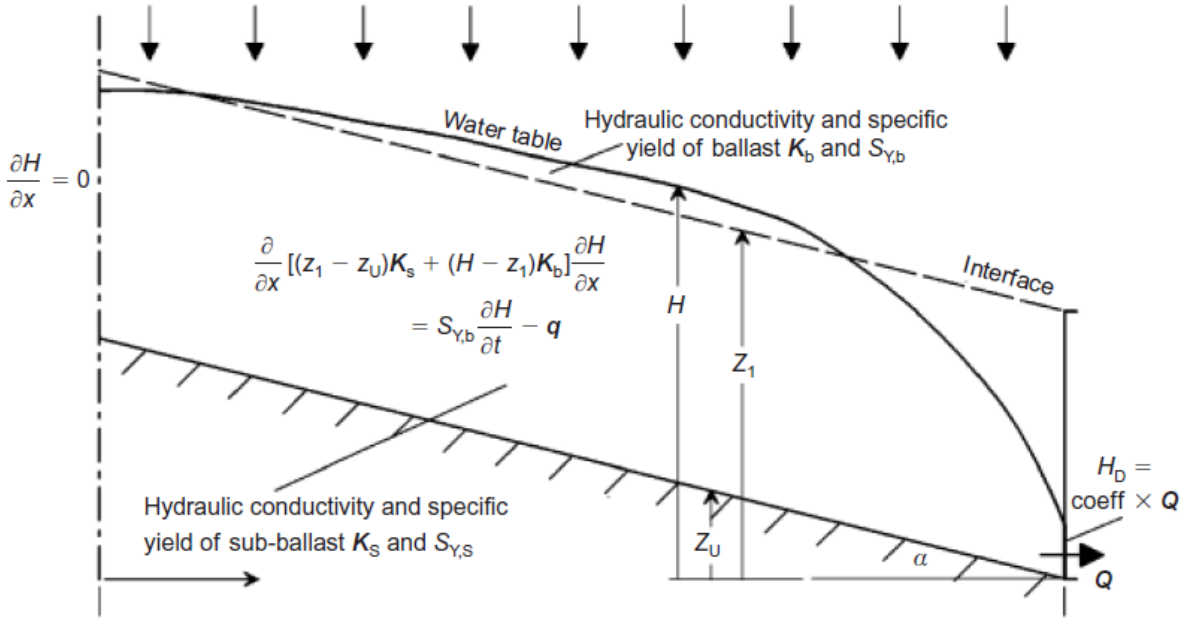


Figure 6.1 Track cross-section and prediction model (Rushton and Ghataora, 2009)

$$\frac{\partial\,[\,(Z1 - Zu)Ks + (H - Z1)Kb\,]}{\partial x}.\frac{\partial H}{\partial x} = Sy,b.\frac{\partial H}{\partial t} - q \qquad (6.1)$$

Where:

H= ground water head in Dupuit-Forchheimer analysis (m)

K_b = ballast permeability (m/s)

K_s = subballast permeability (m/s)

q = rainfall intensity (m/s)

$S_{y.b}$ = subballast specific yield

x = distance from centreline (m)

Z_l = elevation of interface between ballast subballast (m)

Z_u = elevation of base of subballast (m)

t = time (h)

Q = subballast discharge (m^3/s)

The limitations and uncertainties of Equation 6.1 were previously indicated in Section 2.7.1. According to Ghataora and Rushton (2012) this equation can be written as: (Ghataora & Rushton, 2012)

$$\frac{\partial\,[\,Ks.ts + (H - Zsg - ts)Kb\,]}{\partial x}.\frac{\partial H}{\partial x} = Sy, b.\frac{\partial H}{\partial t} - q \qquad (6.2)$$

Where:

Z_{sg} = elevation of subgrade above lowest point of subgrade (m)

t_s = thickness of sand blanket (m)

s and b = suffixes respectively relate to sand blanket and ballast

The limitations of Equation 6.2 can be assumed to be the same as Equation 6.1 since the Equation 6.2 is the simplified version of Equation 6.1. Calculated results from Equation 6.2 for a laboratory tested section and rainfall characteristics are presented in Figure 6.2. Figure 6.2 demonstrates the measured water level evaluation for clean ballast sample on the horizontal bed with generated rainfall intensity of 45 mm/h for 0.5 h and calculated water level from Equation 6.2.

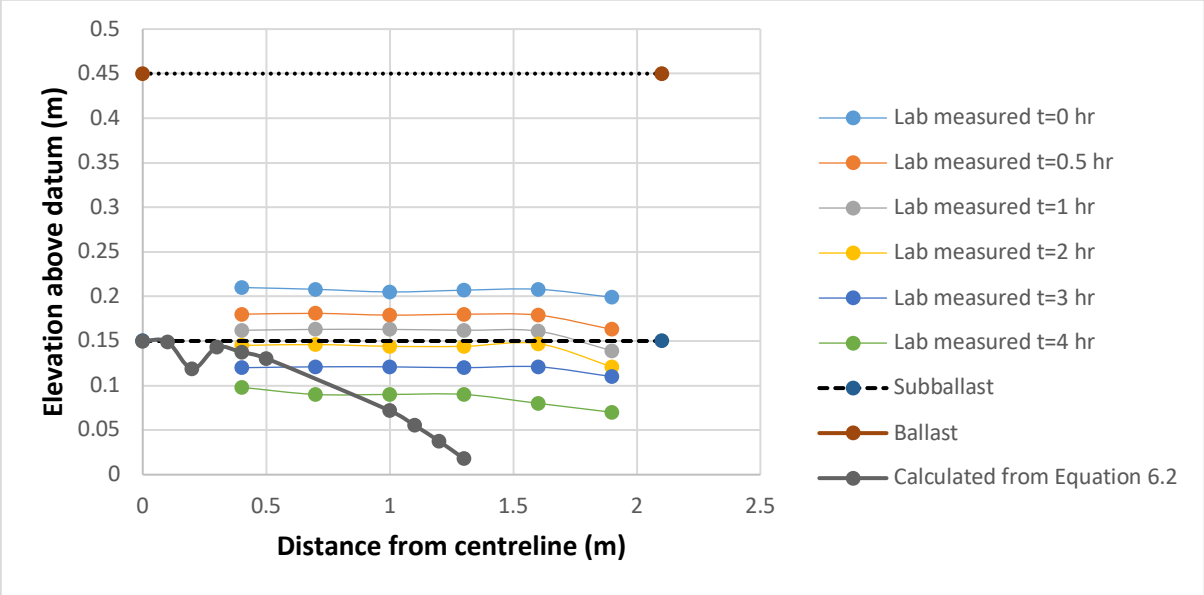


Figure 6.2 Calculated and laboratory measured water level evaluation for clean ballast sample on horizontal bed with generated rainfall intensity of 45 mm/h for 0.5 h

As presented in Figure 6.2, there is a difference between the laboratory-measured water level results and predicted values using Equation 6.2. There are numbers of uncertainty that can cause the mentioned gap in prediction of results. These limitations were previously noted in Section 2.7.1.

6.1.2 Multi-variable linear regression

To predict the water level in the cross-section when having a different section and rainfall characteristics, it is essential to generate a numerical model covering all the parameters affecting mentioned variable. Olive (2017) stated using multi-variable regression is suitable for predicting the required variable when more than one factor is affecting the prediction. Pardoe (2012) defines the population model for a multiple linear regression that relates a dependent variable “y” to “p -1” independent variables as presented in Equation 6.3. (After Pardoe, 2012)

$$Y_i = \beta_0 + \beta_1 x_{i,1} + \ldots + \beta_{p-1} x_{i,\,p-1} + \varepsilon_i \quad (6.3)$$

Where according to Olive (2017):

Yi = Estimated values

β_0 = Intercept or constant values

ε_i = Error

β_1 to β_{p-1} = Slopes or coefficients

$x_{i,1}$ to $x_{i,\,p-1}$ = Independent variables

The entire parameters affecting the piezometers reading can be named as:

1. Distance from centreline (m)
2. Time (h)
3. Slope (%)
4. Rainfall intensity (mm/h)
5. Rainfall duration (h)
6. Ballast permeability (m/s)

It is important to note that ballast and subballast thickness in addition to the subballast permeability have a significant impact on the measurement of water level as mentioned previously in Section 2.7. In this study, the mentioned characteristics of subballast were kept constant during the whole experimental test programme.

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Pardoe (2012) made certain assumptions prior to using multiple liner regression for predicting any sets of data as:

1. ε_i has normal distribution on the entire set of data
2. Variance (σ^2) is constant
3. Letter b is used to represent sample predicted β coefficient
4. The estimated values for β coefficients minimise the sum of squared errors (SSE)
5. Mean squared error (MSE) can be calculated from SSE/ (n-p) where "n" is sample size and "p" is number of coefficients β

Stat.yale.edu (2017) introduced the predicted and residual values as:

1. Estimated values are calculated from $\hat{Y}i = b0 + b1xi,1 + b2xi,2 + \ldots + bp-1\ xi,p-1$ Where b parameters represent β coefficients as explained in section 3 above
2. Residual error (e_i) is defined as $Y_i - \hat{Y}_i$ which is equal to the difference between actual and predicted values
3. R^2 is defined as SSR / SST where "SSR" is the sum of the squared differences between the prediction of each observation and the population mean, and "SST" is total sum of square which includes "Squared residuals" and "Squared mean residuals"

Six parameters affect the prediction of water level in this study as a result of assuming that the subballast characteristics such as thickness and permeability values, are constant. Therefore, due to the presence of more than one independent variable the coefficients forms a matrix. Hence, by using multi-variable linear regression, the matrix of coefficients is estimated. Then predicted water level readings are calculated from multiplication of the coefficient's matrix by the actual water level readings matrix as presented in Equation 6.4.

$$[1.1 \ \dots \ 1.n] \cdot \begin{bmatrix} 1.1 & \cdots & 1.m \\ \vdots & \ddots & \vdots \\ n.1 & \cdots & n.m \end{bmatrix} = \begin{bmatrix} 1.1 \\ \vdots \\ 1.m \end{bmatrix} \quad (6.4)$$

As shown in Equation 6.4, the actual readings matrix (1.n) multiple by coefficients matrix (n.m) results in prediction matrix (1.m).

6.1.3 Proposed models and the justifications

The aim of the numerical model was to predict the water levels in both the ballast and sub-ballast layers for given track cross-section, characteristics of materials and rainfall. The individual effect of each variable cannot be estimated due to the complex interaction of variables. Therefore, the concentration of each factor was derived by trial and error.

The proposed models are assessed based on parameters mentioned in Section 6.1.2 as:

1. R^2
2. RMSE (root mean squared error)
3. Standard error
4. Number of negative predictions

Finally, the predicted values are plotted with respect to the measured values. If the plotted values located on the line of y = x, theoretically there is no potential error in prediction of the results. This helps to identify any error when observing the proposed model and can increase the accuracy of the model.

Table 6.1 shows the proposed models for estimating the water level. Following parameters affect the prediction of water level:

- d = distance from centreline (m)
- t = time after finishing the rainfall (h)
- i = section slope (%)
- q = rainfall intensity (mm/h)
- D = rainfall duration (h)
- K_b = ballast permeability (m/s)

Table 6.1 Proposed models for calculating water level

Model number	**b1**	**b2**	**b3**	**b4**	**b5**	**b6**	**b7**	**b8**
1	Cons	d	t	i	q	D	K_b	d.t
2	Cons	d^2	t^2	i	q	D	K_b	d.t
3	Cons	d	t	i^2	q	D	K_b	d.t
4	Cons	d^2	t^2	i	q	D	K_b	-
5	Cons	d	t	i	q^2	D^2	K_b	d.t
6	Cons	d^2	t^2	i	q^2	D^2	K_b	d.t
7	Cons	d	t	i	q	D	K_b	q.D

Using proposed models for predicting water level result in high measured error as discussed earlier in this section. Table 6.2 demonstrates the mentioned assessment parameters.

Table 6.2 Error in the proposed water level predictions models

Complete analysis table							
Mean	SSR	SSE	SST	R2	RMSE	Standard Error	# negative predictions
0.174	60.40949	13.66921	74.07870	0.81548	0.00094	0.00105	195
0.174	54.55041	19.52829	74.07870	0.73638	0.00041	0.00100	260
0.174	60.65190	13.42680	74.07870	0.81875	0.00090	0.00105	193
0.174	51.90996	22.16873	74.07870	0.70074	0.00051	0.00097	275
0.174	59.40130	14.67740	74.07870	0.80187	0.00106	0.00104	177
0.174	53.54222	20.53648	74.07870	0.72277	0.00053	0.00099	263
0.174	60.43373	13.64497	74.07870	0.81580	0.00094	0.00105	193

Table 6.2 represents the assessments of the models respectively. As previously mentioned, the models are required to be sorted based on their representative errors. Grades 1 to 7 are awarded to each model based on their calculated error in such a way that 7 is the best condition among the models and 1 is the worst. The proposed models sorted based on their error measurement as shown in Table 6.3.

Table 6.3 Graded models based on their measured errors

Model number	R2	RMSE	Standard Error	#Negative predictions	Total Mark	Model grade
1	5	2	3	5	15	18
2	3	7	5	3	18	18
3	7	4	1	6	18	16
4	1	6	7	1	15	15
5	4	1	4	7	16	15
6	2	5	6	2	15	15
7	6	3	2	4	15	15

From the chosen models, the actual measured values need to be plotted against the predicted values in order to achieve a visual confirmation of models' precision. Figure 6.3 and 6.4 show these values for models #2 and #3 respectively.

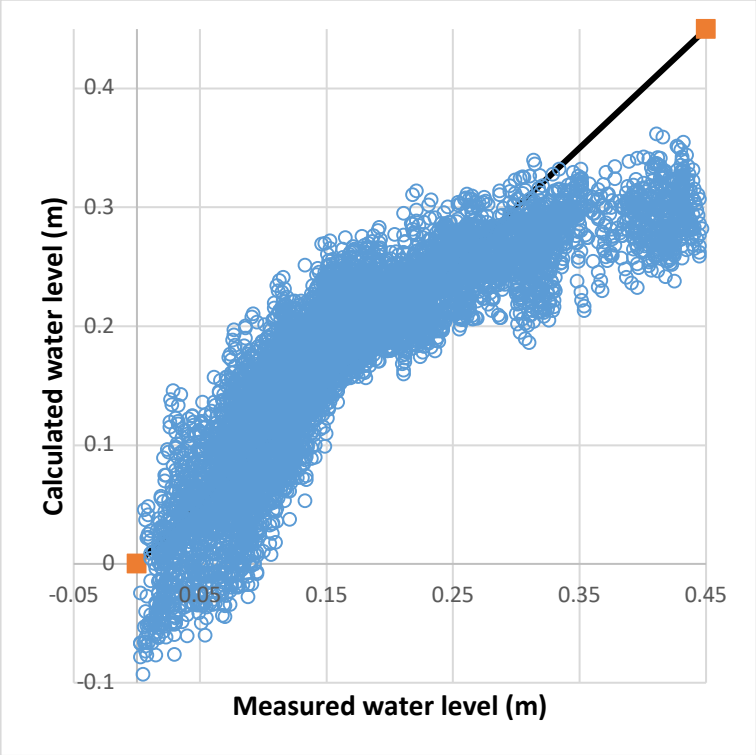


Figure 6.3 Calculated water level against measured water level values for model #2

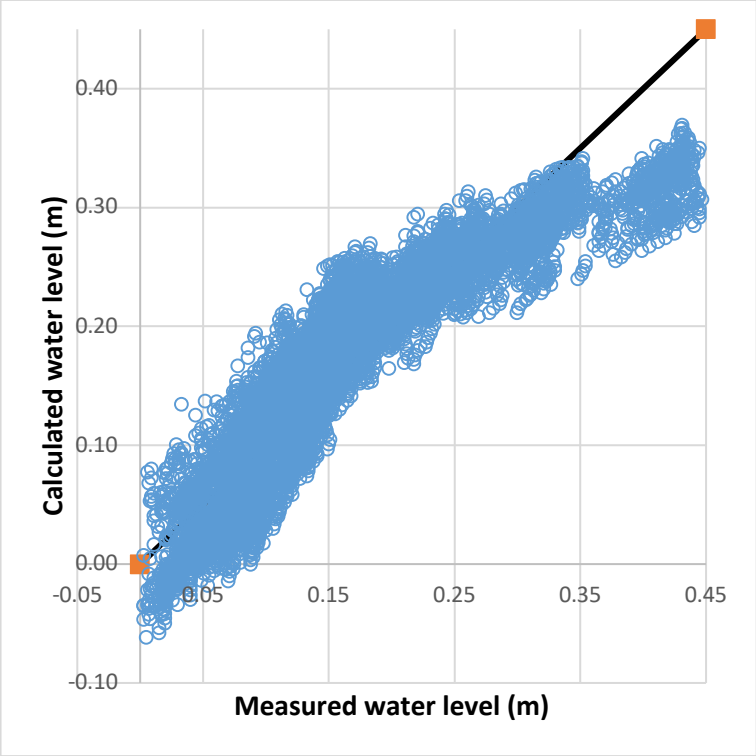


Figure 6.4 Calculated water level against measured water level values for model #3

The graphs for all the models are given in Appendix III. Due to low values of calculated R^2, and high number of negative predictions and inaccuracy of predictions in high water tables area as demonstrated in Figures 6.4 and 6.5, which is resulted from high-intensity rainfall and/or long duration medium-intensity rainfall on fouled ballast samples as reported in Chapter 5, the results are clustered based on the occurred rainfall intensity as:

1. Low-intensity rainfall or light rain (33 mm/h)
2. Medium-intensity rainfall (45 mm/h)
3. High-intensity rainfall or storm event (100 mm/h)

In another word, generating a single prediction model for all the different rainfall intensities does not estimate an accurate outcome. Therefore, separate models are generated based on the occurred rainfall intensities.

6.1.4 Low-intensity rainfall

As illustrated in Section 6.1.3, the proposed models are not suitable for predicting the water level in the track ballast and subballast. Therefore, the results are classified based on occurred rainfall intensity. In this section, a numerical model was developed to predict the water level when having a light rain event (33 mm/h). The nominated models are presented in Table 6.1. As previously mentioned, the complex interaction between effective parameters cannot be calculated. Therefore, the generated patterns are based on trial and error. Table 6.4 demonstrates the assessment of proposed models for the light rain event.

Table 6.4 Errors in the proposed water level predictions models for light rain event

Light rain analysis table							
Mean	SSR	SSE	SST	R2	RMSE	Standrad error	# negative predictions
0.146	15.9958	2.6611	18.6569	0.8574	0.0297	0.00132	49
0.146	14.8263	3.8306	18.6569	0.7947	0.0356	0.00127	88
0.146	16.0681	2.5888	18.6569	0.8612	0.0293	0.00133	53
0.146	14.3390	4.3179	18.6569	0.7686	0.0378	0.00125	92
0.146	**15.6420**	**3.0149**	**18.6569**	**0.8384**	**0.0316**	**0.00131**	**30**
0.146	14.4725	4.1844	18.6569	0.7757	0.0372	0.00126	93
0.146	**15.9946**	**2.6623**	**18.6569**	**0.8573**	**0.0297**	**0.00132**	51

Table 6.4 represents the assessments of the models respectively. As previously mentioned, the models are required to be sorted based on their representative errors. Grades 1 to 7 are awarded to each model based on their calculated error in such a way that 7 is the best condition among the models and 1 is the worst. The proposed models sorted based on their error measurement as shown in Table 6.5.

Table 6.5 Graded water level prediction models based on their measured errors when having low-intensity rainfall

Model number	R2	RMSE	Standard Error	#Negative predictions	Total Mark	Chosen Model
1	5	7	3	5	20	21
2	3	3	5	3	14	20
3	7	7	1	6	21	**19**
4	1	1	7	1	10	19
5	**4**	**4**	**4**	**7**	**19**	14
6	**2**	**2**	**6**	**2**	**12**	**12**
7	6	7	2	4	19	10

As noted in Table 6.5, due to a negligible difference in RMSE values reported in Table 6.4, models #1, #3 and #7 are awarded the grade of "7" in the mentioned department. From the chosen models, the actual measured values need to be plotted against the predicted values in order to obtain a visual confirmation of models' precision. Figure 6.5 and 6.6 show these values for models #1 and #3 respectively.

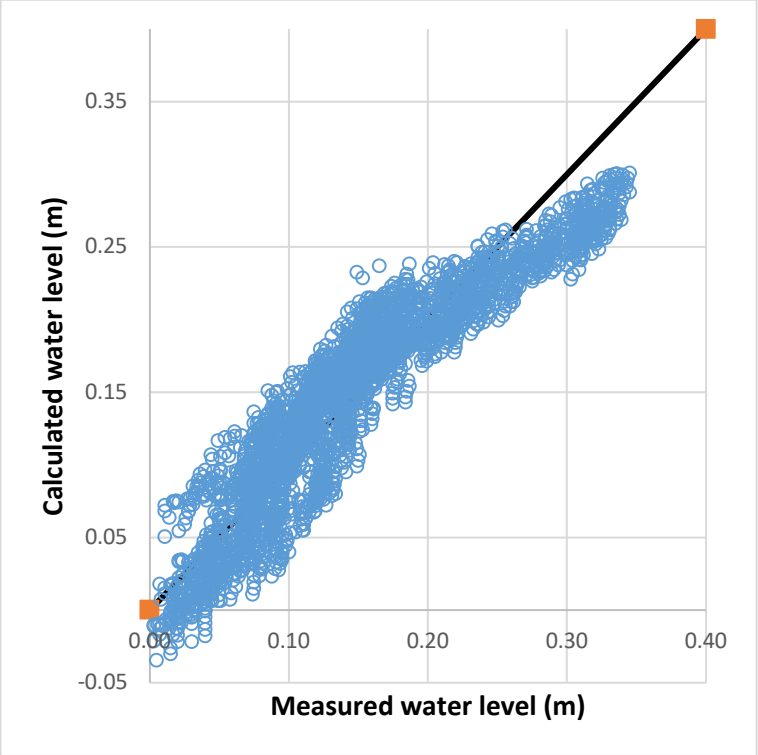


Figure 6.5 Calculated water level against measured water level values for model #1 with low-intensity rainfall

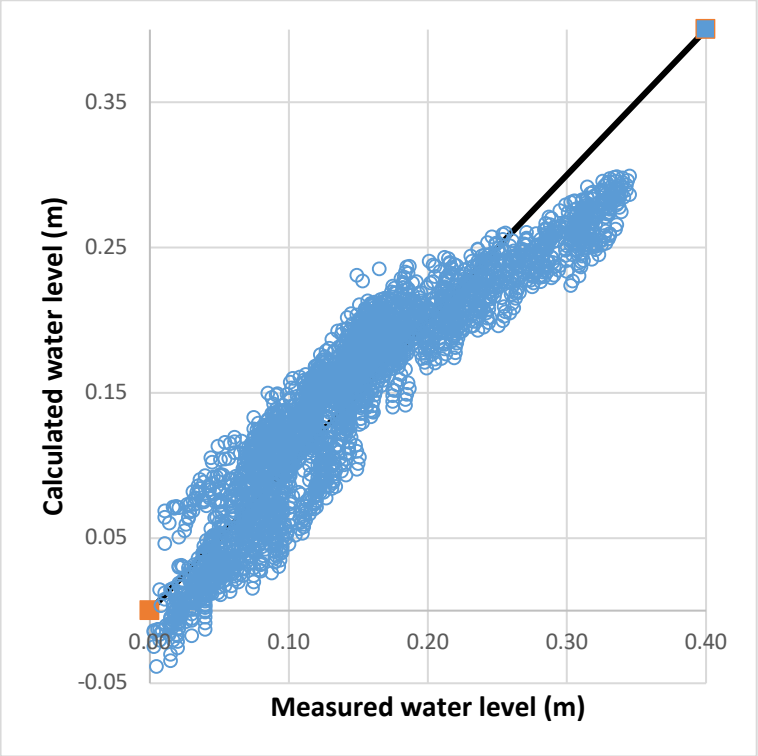


Figure 6.6 Calculated water level against measured water level values for model #3 with low-intensity rainfall

The presented graphs for the entire proposed models are demonstrated in Appendix IV. As shown in Figures 6.5 and 6.6, due to higher underestimation in the water level readings in the interval of 0.25m to 0.35m and less concentration of the predicted values in the interval of 0.05m to 0.2m for model #3, it is concluded that model #1 is the best fit to predict water level in low-intensity rainfall event.

6.1.5 Medium-intensity rainfall

As shown in Section 6.1.3, the proposed models are not fit to predict the water level. Therefore, the results are grouped based on the rainfall intensity. In this section, a numerical model was developed to predict the water level when having a medium-intensity rainfall (45 mm/h). The models are presented in Table 6.1. As previously mentioned, the complex interaction between effective parameters cannot be calculated. Therefore, the generated patterns are based on trial and error. Table 6.6 demonstrates the assessment of proposed models for medium intensity rainfall event.

Table 6.6 Errors in the proposed water level predictions models for medium-intensity rainfall event

Medium-intensity rainfall analysis table							
Mean	SSR	SSE	SST	R2	RMSE	Standrad error	#Negatibe predictions
0.185	25.7426	4.6997	30.4422	0.8456	0.0394	0.001678	39
0.185	23.0975	7.3447	30.4422	0.7587	0.0493	0.001590	97
0.185	25.8478	4.5945	30.4422	0.8491	0.0390	0.001682	47
0.185	21.9639	8.4784	30.4422	0.7215	0.0529	0.001550	79
0.185	25.5036	4.9386	30.4422	0.8378	0.0404	0.001670	29
0.185	22.8586	7.5837	30.4422	0.7509	0.0501	0.001581	94
0.185	**25.7425**	**4.6997**	**30.4422**	**0.8456**	**0.0394**	**0.001678**	39

Table 6.6 represents the assessments of proposed models respectively. As earlier mentioned, the models need to be sorted based on their representative errors. Grades 1 to 7 are awarded to models based on their calculated error in such a way that 7 is the best condition in between

models and 1 is the worst. The proposed models then can be sorted based on their error measurement as shown in Table 6.7.

Table 6.7 Graded water level prediction models based on their measured errors when having medium-intensity rainfall

Model number	R2	RMSE	Standard Error	#Negative predictions	Total Mark	Chosen Model
1	6	6	2	6	20	20
2	3	3	5	1	12	19
3	7	7	1	4	19	19
4	1	1	7	3	12	19
5	4	4	4	7	19	12
6	2	2	6	2	12	12
7	5	5	3	6	19	12

From chosen models, the actual measured values need to be plotted against the predicted values in order to achieve a visual confirmation of models' precision. Figures 6.7and 6.8 show these values for models #1 and #3 respectively.

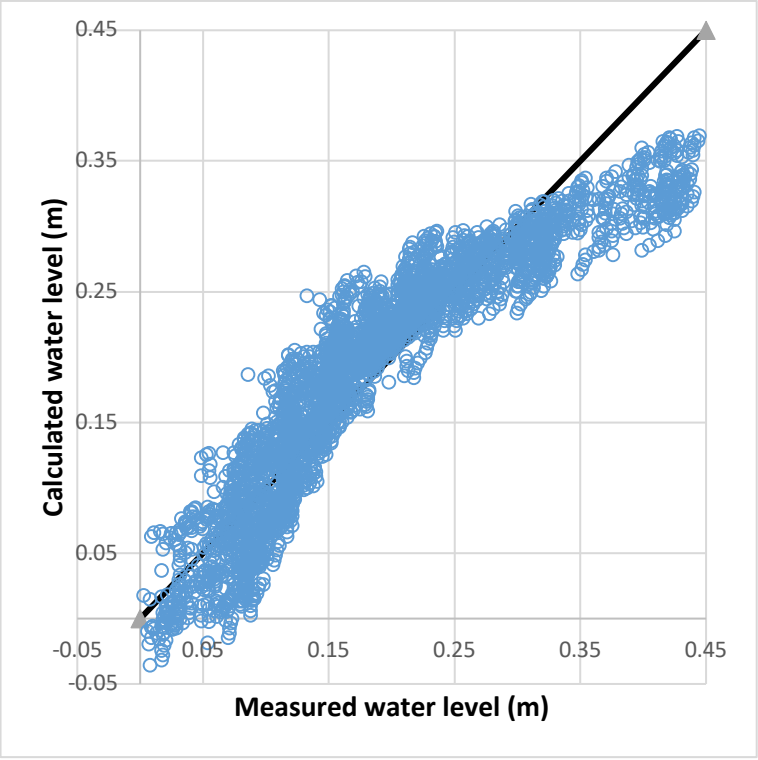


Figure 6.7 Calculated water level against measured water level values for model #1 with medium-intensity rainfall

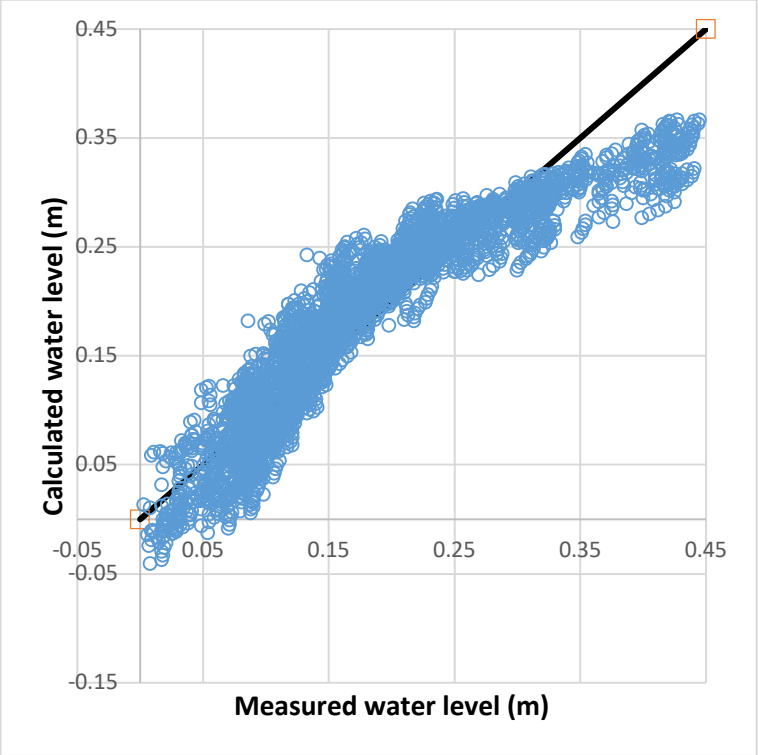


Figure 6.8 Calculated water level against measured water level values for model #3 with medium-intensity rainfall

The presented graphs for entire models are demonstrated in Appendix V. As shown in Figures 6.7 and 6.8, due to more excessive underestimation in the water level readings during the 0.35m to 0.45m interval and less concentration of the predicted values during the 0.1m to 0.2m interval for model #3, and lower awarded mark in Table 6.7 for the mentioned model, it is concluded that model #1 is the best fit to predict water level in medium-intensity rainfall event.

6.1.6 High-intensity rainfall

As shown in Section 6.1.3, the proposed models are not fit to predict the water level. Therefore, the results are grouped based on the rainfall intensity. In this section, a numerical model was developed to predict the water level when having storm rainfall event (100 mm/h). The models are presented in Table 6.1. As previously mentioned, the complex interaction between effective parameters cannot be calculated. Therefore, the generated patterns are

based on trial and error. Table 6.8 demonstrates the assessment of proposed models for medium intensity rainfall event.

Table 6.8 Errors in the proposed water level predictions models for storm event

High-intensity rainfall analysis table							
Mean	SSR	SSE	SST	R2	RMSE	Standrad error	#Negative predictions
0.214	17.3220	2.8294	20.1514	0.8596	0.0455	0.00304	10
0.214	14.8704	5.2810	20.1514	0.7379	0.0621	0.00282	58
0.214	17.3856	2.7658	20.1514	0.8627	0.0450	0.00305	25
0.214	13.5189	6.6324	20.1514	0.6709	0.0696	0.00269	27
0.214	17.3220	2.8294	20.1514	0.8596	0.0455	0.00304	10
0.214	14.8704	5.2810	20.1514	0.7379	0.0621	0.00282	58
0.214	17.3220	2.8294	20.1514	0.8596	0.0455	0.00304	10

Table 6.8 represents the assessments of the models respectively. As previously mentioned, the models are required to be sorted based on their representative errors. Grades 1 to 7 are awarded to each model based on their calculated error in such a way that 7 is the best condition among the models and 1 is the worst. The proposed models sorted based on their error measurement as shown in Table 6.9.

Table 6.9 Graded water level prediction models based on their measured errors when having high-intensity rainfall

Model number	R2	RMSE	Standard Error	#Negative predictions	Total Mark	Chosen Model
1	6	6	2	7	21	21
2	3	3	6	2	14	21
3	7	7	1	4	19	21
4	1	1	7	3	12	19
5	5	6	3	7	21	14
6	2	2	5	1	10	12
7	4	6	4	7	21	10

From chosen models, the actual measured values need to be plotted against the predicted values in order to achieve a visual confirmation of models' precision. Figures 6.9, 6.10 and 6.11 show these values for models #1, #5 and #7 respectively.

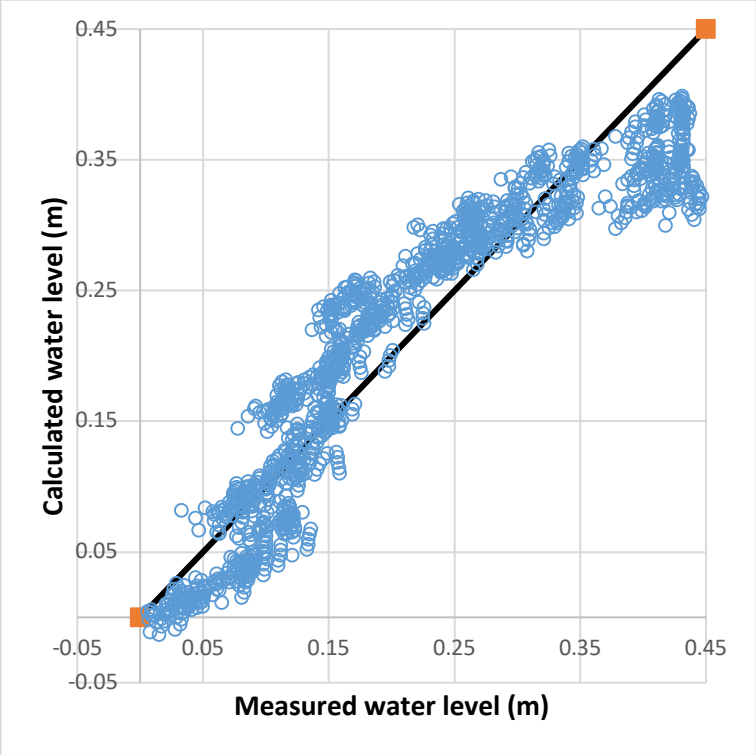


Figure 6.9 Calculated water level against measured water level values for model #1 with high-intensity rainfall

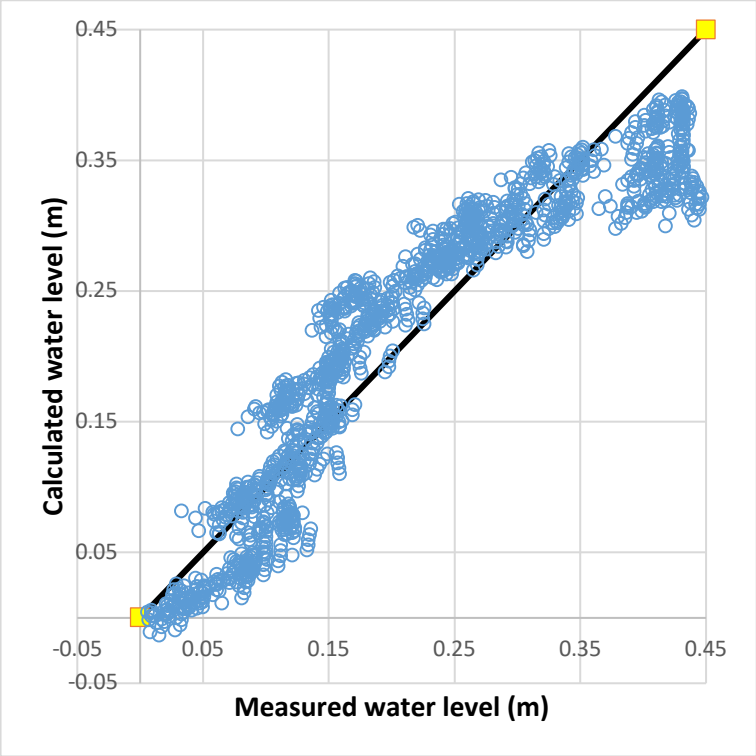


Figure 6.10 Calculated water level against measured water level values for model #5 with high-intensity rainfall

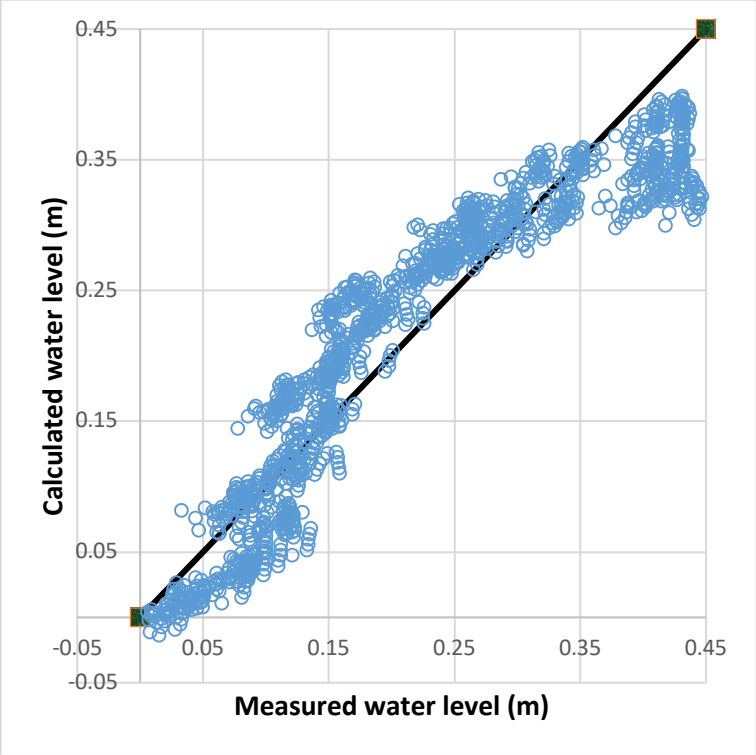


Figure 6.11 Calculated water level against measured water level values for model #7 with high-intensity rainfall

The presented graphs for entire models are demonstrated in Appendix VI. As depicted in Figures 6.9 to 6.11, due to more excessive underestimation in the water level readings during the 0.35m to 0.45m interval and less concentration of the predicted values during the 0.15m to 0.3m interval besides the imprecise overestimation for 0m to 0.15m intervals for models #5 and #7, it is concluded that model #1 is the best fit for predicting water level in high-intensity rainfall event.

6.1.7 Summary

An investigation was undertaken in order to predict the water level for different rainfall and section characteristics in Sections 6.1.3 to 6.1.6. Proposed results suggest the model #1 is the suitable for predicting piezometers readings or laboratory measured water level. As mentioned in Table 6.1, the suggested model has a linear concentration of affecting factors plus a combination factor which multiplying the distance from centreline and time. As results

are clustered based on the occurred rainfall internists, the variables coefficients change with respect to the existing rainfall intensity. Table 6.10 shows the concluded models and calculated coefficients for predicting the water level.

Table 6.10 Calculated coefficients for predicting water level using linear multi-variable regression

Model number	Rainfall intensity (mm/h)	C	d	t	i	q	D	K_b	d.t
		C (m)	Distance from centreline (m)	Time after finishing rainfall (h)	Slope (%)	Rainfall intensity (mm/h)	Rainfall duration (h)	Ballast permeability (m/S)	Distance. Time (m.h)
Coefficients unit		m	1	m/h	m	h	m/h	h	1/h
1	33	0	-0.0107	-0.043	-0.0063	0.0058	0.0566	-0.079	-8.9×10^{-4}
1	45	0	-0.0121	-0.06	-0.0085	0.0061	0.0483	-0.096	-9.6×10^{-5}
1	100	0	-0.0138	-0.078	-0.0122	0.0040	0.0046	-0.056	9.91×10^{-5}

6.2 Discharge prediction

6.2.1 Existing predictions

According to Heyns (2000), discharge out of the hydraulic flume container can be predicted using empirical model derived from Darcy's law. Discharge prediction model suggested by Heyns (2000) is only valid when the subballast is partially saturated. Heyns (2000) observed a steady flow out of the ballast when the subballast is impermeable. By having an

impermeable subballast beneath the ballast layer, the capacity of this layer to drain water is significantly reduced as explained in Chapter 5. Reduction in drainage capacity of this layer results in a sudden rise in water level as rainfall occurs. Due to accumulated water pressure and elevation head difference (in case of having any section slope) flow of water is created towards the outlet of flume as described previously in Chapter 5. Heyns (2000) compared the laboratory subballast discharge results to the developed theoretically prediction model. According to Heyns (2000), a massive difference is reported between laboratory results and prediction model. The limitations of the theoretically proposed model are highlighted in Section 2.7.2. The collected flow out of subballast is reported to be much greater than the predicted values. Therefore, it is essential to develop a numerical model based on the hydraulic flume laboratory test results, in order to predict the discharge out of the system.

In this study, the total discharge out of ballast and subballast is monitored as described in Section 5.3. By measuring the discharge with time, the total flow of water out of the system as well as gravitational remaining water could be assessed. Results in Section 5.3 of this study are in accordance with Heyns (2000) key findings regarding the capacity of subballast to drain water. Therefore, the discharge out of subballast under different rainfall and section characteristics can be estimated, but there is no previous study for evaluating the flow of water out of the clean and fouled ballast.

6.2.2 Multi-variable linear regression

To predict the discharge out of ballast when having a different section and rainfall characteristics, it is essential to generate a numerical model which covers all the parameters affecting mentioned variable. Olive (2017) believed using multiple linear regression is suitable for predicting the required variable when more than one factor affecting the prediction. Pardoe (2012) defined the population model for a multiple linear regression that relates a dependent variable "y" to "p -1" independent variables, as presented in Equation 6.3.

The entire parameters affecting the ballast discharge can be named as:

1. Time (h)
2. Slope (%)
3. Rainfall intensity (mm/h)
4. Rainfall duration (h)
5. Ballast permeability (m/s)

It is important to note that ballast and subballast thickness in addition to the subballast permeability have a significant impact on the measurement of water level as mentioned previously in Section 2.7. In this study, the mentioned characteristics of subballast were kept constant during the whole experimental test programme.

Pardoe (2012) made certain assumptions prior to using multiple liner regression for predicting any sets of data as:

1. ε_i has normal distribution on the entire set of data
2. Variance (σ^2) is constant
3. Letter b is used to represent sample predicted β coefficient
4. The estimated values for β coefficients are generating in way to minimise the sum of squared errors (SSE)
5. Mean squared error (MSE) can be calculated from SSE/ (n-p) where "n" is sample size and "p" is number of coefficients β

Stat.yale.edu (2017) introduced the predicted and residual values as:

1. Estimated values are calculated from $\hat{Y}i = b0 + b1xi,1 + b2xi,2 + \ldots + bp-1\ xi,$ $p-1$ Where b parameters represent β coefficients as explained in section 3 above

2. Residual error (e_i) is defined as $Y_i - \hat{Y}_i$ which is equal to the difference between actual and predicted values
3. R^2 is defined as SSR / SST where "SSR" is the sum of the squared differences between the prediction for each observation and the population mean, and "SST" is the total sum of square which includes "Squared residuals" and "Squared mean residuals"

Five parameters affect the prediction of water level in this study as a result of assuming that the subballast characteristics such as thickness and permeability values, are constant. Therefore, due to the presence of more than one independent variable the coefficients form a matrix. Hence, by using multi-variable linear regression, the matrix of coefficients is estimated. Then predicted water level readings are calculated from multiplication of the coefficient's matrix by the actual water level readings matrix as presented in Equation 6.4

6.2.3 Proposed model and the justifications

In this section, it is tried to generate a numerical model to predict the ballast cumulative flow values based on section and rainfall characteristics. The individual effect of each variable cannot be estimated due to the complex interaction between variables. Therefore, the concentration of each affecting factor is derived by trial and error.

The proposed models are assessed based on parameters mentioned in Section 6.2.2 as:

1. R^2
2. RMSE (root mean squared error)
3. Standard error
4. Number of negative predictions

Finally, the predicted values are plotted with respect to the measured values. In case the schemed values locate on the line of y = x, theoretically there is no error in predicting the results. This helps to identify any error when observing the proposed model and, can increase the precision of model.

Table 6.11 shows the proposed models for estimating the water level. Following parameters affect the prediction of water level:

- t = time after finishing the rainfall (h)
- i = section slope (%)
- q = rainfall intensity (mm/h)
- D = rainfall duration (h)
- K_b = ballast permeability (m/s)

Table 6.11 Proposed models for calculating ballast discharge

Model number	**b1**	**b2**	**b3**	**b4**	**b5**	**b6**	**b7**	**b8**
1	Cons	t	i	q	D	K_b	-	-
2	Cons	t	i	q	D	K_b	$t.K_b$	-
3	Cons	t^2	i^2	q^2	D^2	K_b^2	-	-
4	Cons	t	i	q	D	$q.K_b$	-	-
5	Cons	t^2	i^2	q^2	D^2	K_b^2	$q.K_b$	-
6	Cons	t^2	i^2	q^2	D^2	K_b^2	$q.K_b$	$i.K_b$

Using proposed models for predicting the water level, results in high measured error as discussed earlier in this section. Table 6.12 demonstrates the mentioned assessment parameters.

Table 6.12 Errors in the proposed ballast discharge predictions models

Mean	SSR	SSE	SST	R2	RMSE	Standrad error	#Negative predictions
34.612	793231.3587	265899.2920	1059130.6507	0.7489	16.0672	0.865115	109
34.612	793801.9362	265328.7145	1059130.6507	0.7495	16.0499	0.865426	106
34.612	714613.5469	344517.1039	1059130.6507	0.6747	18.2889	0.821125	44
34.612	794386.5666	264744.0841	1059130.6507	0.7500	16.0323	0.865744	106
34.612	720345.1977	338785.4530	1059130.6507	0.6801	18.1361	0.824411	46
34.612	720795.2896	338335.3611	1059130.6507	0.6806	18.1240	0.824669	45

Table 6.12 represents the assessments of the models respectively. As previously mentioned, the models are required to be sorted based on their representative errors. Grades 1 to 7 are awarded to each model based on their calculated error in such a way that 7 is the best condition among the models and 1 is the worst. The proposed models sorted based on their error measurement as shown in Table 6.13.

Table 6.13 Graded models based on their measured errors

Model number	R2	RMSE	Standard error	#Negative predictions	Total mark	Chosen model
1	4	4	3	1	12	16
2	5	5	2	3	15	15
3	1	1	6	6	14	15
4	6	6	1	3	16	14
5	2	2	5	4	13	13
6	3	3	4	5	15	12

As previously mentioned, from chosen models, the actual measured values need to be plotted against the predicted values in order to obtain a visual confirmation of models' precision. Figure 6.12 shows these values for model #4.

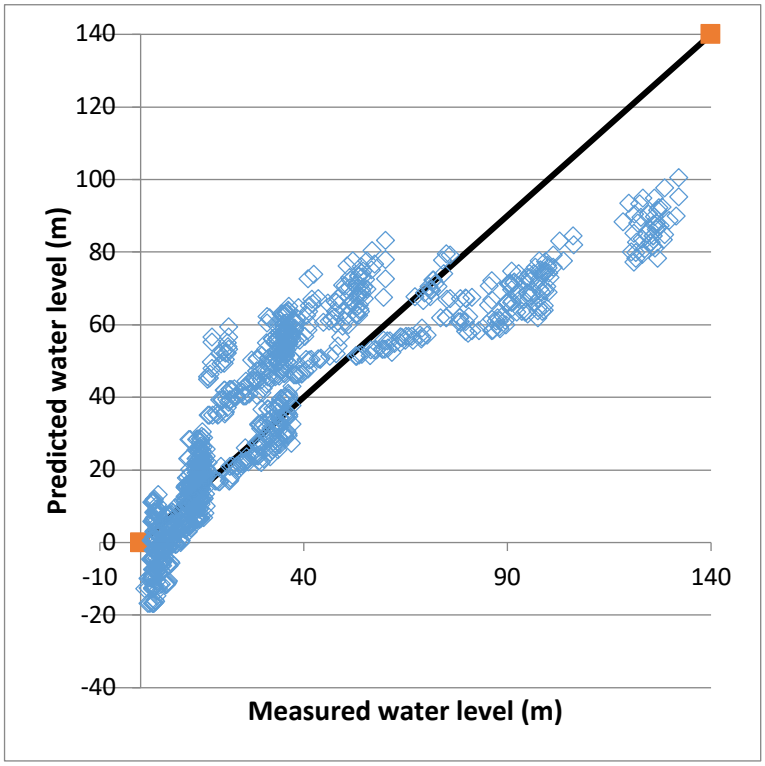


Figure 6.12 Calculated ballast discharge against measured ballast discharge values for model #4

The presented graphs for entire models are demonstrated in Appendix VII. Due to low values of calculated R^2, the high number of negative predictions and inaccuracy of predictions in higher ballast cumulative flows area demonstrated in Figure 6.15 which is resulted from high-intensity rainfall and/or long duration medium-intensity rainfall on fouled ballast samples as reported in Chapter 5, the results are clustered based on rainfall intensity as:

1. Low-intensity rainfall or light rain (33 mm/h)
2. Medium-intensity rainfall (45 mm/h)
3. High-intensity rainfall or storm event (100 mm/h)

6.2.4 Low-intensity rainfall

As mentioned in Section 6.2.3, the proposed models are not suitable for predicting the ballast discharge. Therefore, the results are grouped based on rainfall intensity. In this section, a numerical model was developed to predict the ballast cumulative flow when having a light rain event (33 mm/h). The nominated models are presented in Table 6.11. As formerly mentioned, the complex interaction between effective parameters cannot be calculated. Therefore, the generated patterns are based on trial and error. Table 6.14 demonstrates the assessment of proposed models.

Table 6.14 Errors in the proposed ballast discharge predictions models for light rain event

Mean	SSR	SSE	SST	R2	RMSE	Standrad error	#Negative predictions
15.92	55526.7123	3420.9657	58947.6780	0.9420	2.8540	0.5617	5
15.92	55555.7907	3391.8872	58947.6780	0.9425	2.8418	0.5619	14
15.92	53818.4028	5129.2752	58947.6780	0.9130	3.4946	0.5530	0
15.92	55526.7123	3420.9657	58947.6780	0.9420	2.8540	0.5617	5
15.92	53997.4642	4950.2137	58947.6780	0.9160	3.4331	0.5539	0
15.92	54005.0821	4942.5959	58947.6780	0.9162	3.4305	0.5540	0

Table 6.14 represents the assessments of the models respectively. As previously mentioned, the models are required to be sorted based on their representative errors. Grades 1 to 6 are awarded to each model based on their calculated error in such a way that 6 is the best condition among the models and 1 is the worst. The proposed models sorted based on their error measurement as shown in Table 6.15.

Table 6.15 Graded ballast discharge prediction models based on their measured errors when having low-intensity rainfall

Model number	R2	RMSE	Standard error	#Negative predictions	Total mark	Chosen model
1	6	4	3	3	16	16
2	6	6	1	1	14	16
3	1	1	6	6	14	15
4	6	5	2	2	15	15
5	2	2	5	6	15	14
6	3	3	4	6	16	14

As noted in Table 6.15, due to a negligible difference in R^2 values reported in Table 6.14, models #1 and #6 are awarded grade “16" in the mentioned department. As previously noted, from chosen models, the actual measured values need to be plotted against the predicted values in order to achieve a visual confirmation of models’ precision. Figure 6.13 and 6.14 show these values for models #1 and #6 respectively.

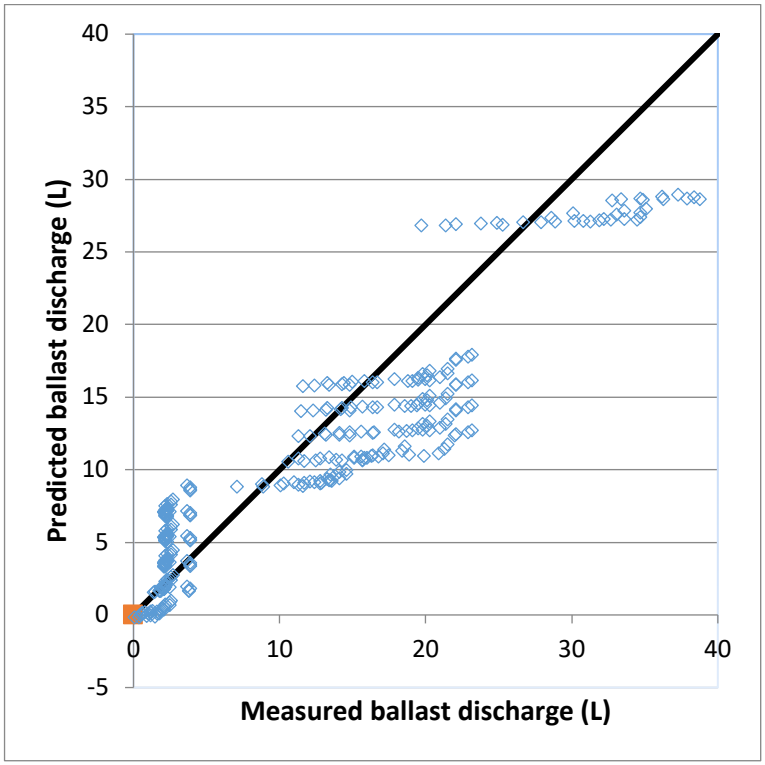


Figure 6.13 Calculated ballast discharge against measured ballast discharge values for model #1

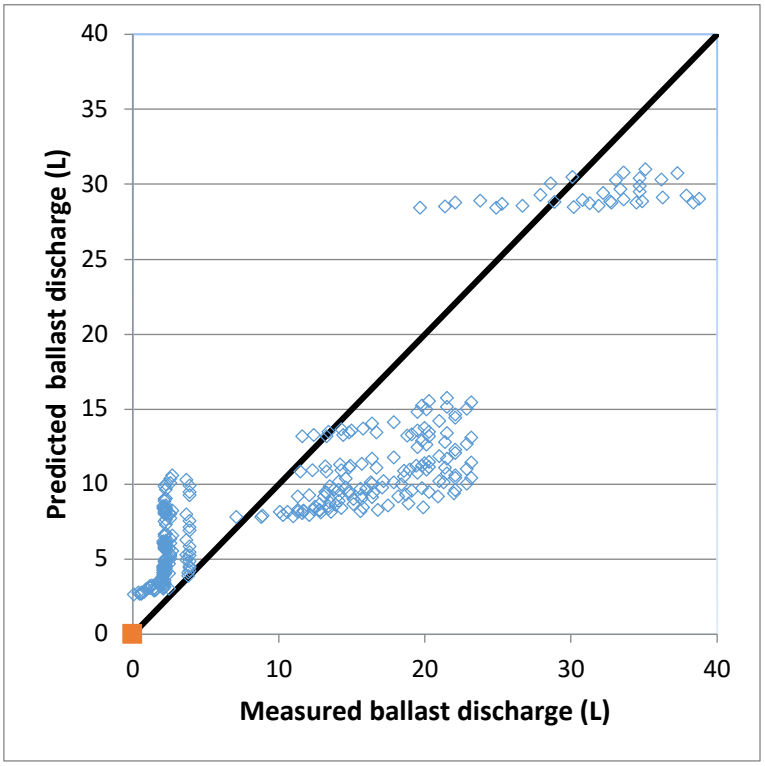


Figure 6.14 Calculated ballast discharge against measured ballast discharge values for model #6

The presented graphs for entire models are demonstrated in Appendix VIII. As shown in Figures 6.13 and 6.14, due to more excessive underestimation in the discharge measurements in 10 L to 25 L intervals and less concentration of the predicted values in 0 L to 5 L intervals for model #6, it is concluded that model #1 is the best fit for predicting the ballast discharge in low-intensity rainfalls.

6.2.5 Medium-intensity rainfall

As mentioned in Section 6.2.3, the proposed models are not suitable for predicting the ballast discharge. Therefore, the results are grouped based on rainfall intensity. In this section, a numerical model was developed to predict the ballast cumulative flow when having a medium rain event (45 mm/h). The nominated models are presented in Table 6.11. As formerly mentioned, the complex interaction between effective parameters cannot be

calculated. Therefore, the generated patterns are based on trial and error. Table 6.16 demonstrates the assessment of proposed models.

Table 6.16 Errors in the proposed ballast discharge predictions models for medium-intensity rainfall event

Mean	SSR	SSE	SST	R2	RMSE	Standrad error	#Negative predictions
38.36	349580.66334	23068.53551	372649.19885	0.93810	7.41115	1.40943	26
38.36	349614.98128	23146.55947	372761.54075	0.93791	7.42367	1.40949	26
38.36	343065.90658	33474.61887	376540.52545	0.91110	8.92757	1.39623	0
38.36	349580.66334	23068.53551	372649.19885	0.93810	7.41115	1.40943	26
38.36	343674.35935	33205.09890	376879.45825	0.91189	8.89156	1.39747	2
38.36	343737.87478	33220.22291	376958.09769	0.91187	8.89358	1.39760	2

Table 6.16 represents the assessments of the models respectively. As previously mentioned, the models are required to be sorted based on their representative errors. Grades 1 to 6 are awarded to each model based on their calculated error in such a way that 6 is the best condition among the models and 1 is the worst. The proposed models sorted based on their error measurement as shown in Table 6.17.

Table 6.17 Graded ballast discharge prediction models based on their measured errors when having medium-intensity rainfall

Model number	R2	RMSE	Standard error	#Negative predictions	Total mark	Chosen model
1	6	6	2	3	17	17
2	4	4	1	3	12	16
3	1	1	6	6	14	16
4	5	5	3	3	16	14
5	3	3	5	5	16	13
6	2	2	4	5	13	12

As noted in Table 6.17, models #1, #5 and #6 are chosen due to their highest marks. As previously mentioned, from chosen models, the actual measured values need to be plotted against the predicted values in order to achieve a visual confirmation of models' precision. Figure 6.15 to 6.17 show these values for models #1, #5 and #6 respectively.

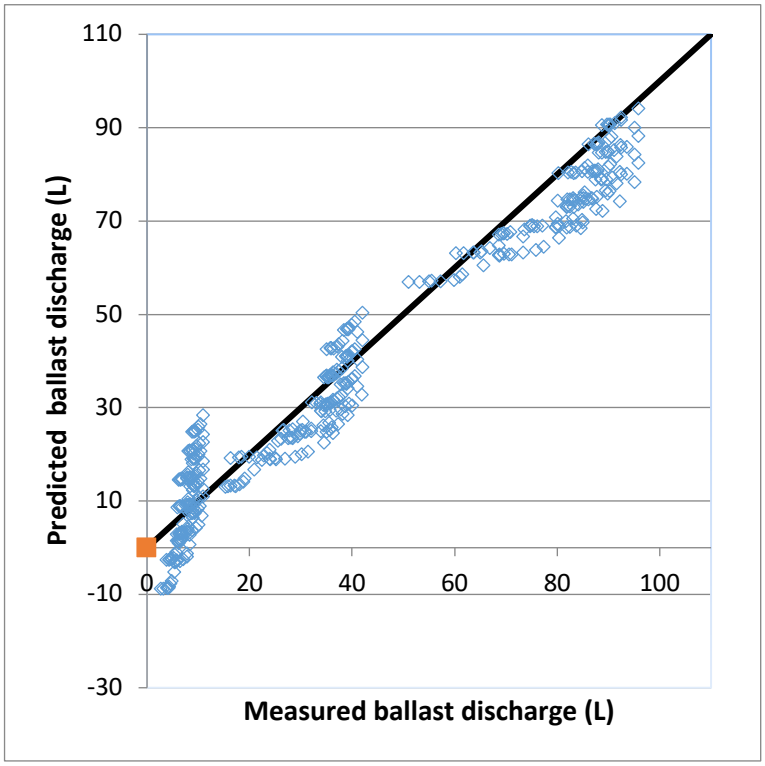


Figure 6.15 Calculated ballast discharge against measured ballast discharge values for model #1

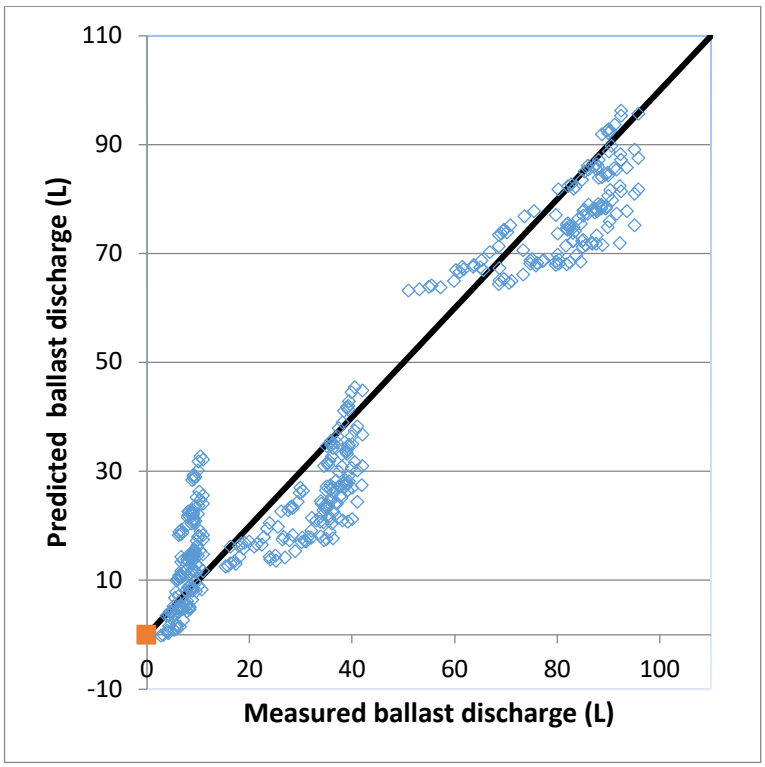


Figure 6.16 Calculated ballast discharge against measured ballast discharge values for model #5

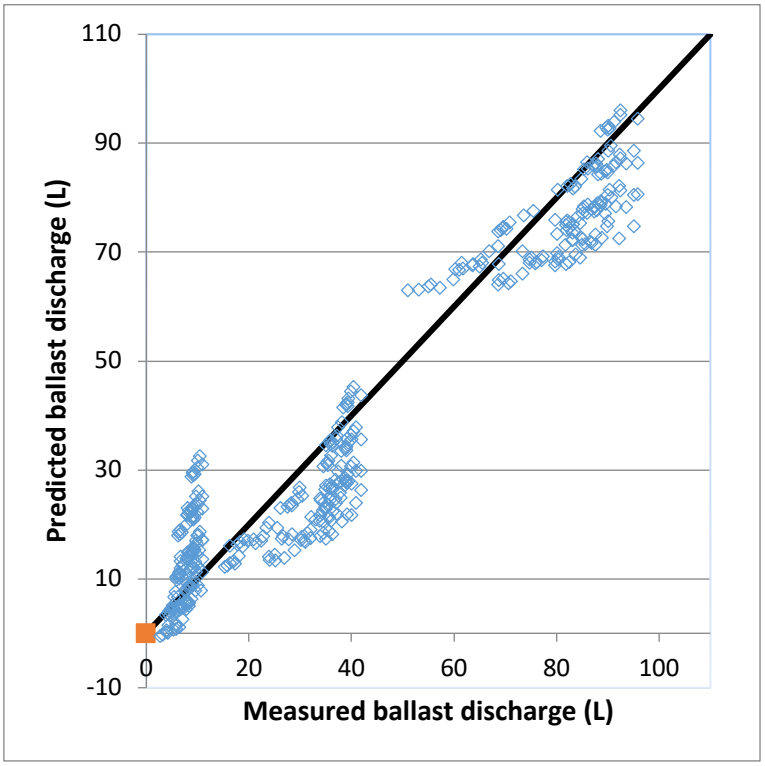


Figure 6.17 Calculated ballast discharge against measured ballast discharge values for model #6

The presented graphs for the entire models are demonstrated in Appendix IX. As shown in Figures 6.15 to 6.17, due to higher underestimation in discharge measurements in 20 L to 55 L intervals and over predictions of values in 0 L to 10 L intervals for models #5 and #6, it is concluded that model #1 is the best fit for predicting the ballast discharge when medium-intensity rainfall occurs.

6.2.6 High-intensity rainfall

As mentioned in Section 6.2.3, the proposed models are not suitable for predicting the ballast discharge. Therefore, the results are grouped based on rainfall intensity. In this section, a numerical model was developed to predict the ballast cumulative flow when having a storm rainfall event (100 mm/h). The nominated models are presented in Table 6.11. As formerly mentioned, the complex interaction between effective parameters cannot be calculated.

Therefore, the generated patterns are based on trial and error. Table 6.18 demonstrates the assessment of proposed models.

Table 6.18 Errors in the proposed ballast discharge predictions models for storm event

Mean	SSR	SSE	SST	R2	RMSE	Standrad error	#Negative predictions
67.65	235255.4323	22574.9225	257830.3548	0.9124	10.9002	2.5595	0
67.65	235475.4902	22354.8646	257830.3548	0.9133	10.8470	2.5607	0
67.65	219318.8002	38511.5546	257830.3548	0.8506	14.2370	2.4713	0
67.65	235255.4323	22574.9225	257830.3548	0.9124	10.9002	2.5595	0
67.65	219402.3634	38427.9914	257830.3548	0.8510	14.2216	2.4718	0
67.65	220495.2465	37335.1083	257830.3548	0.8552	14.0179	2.4779	0

Table 6.18 represents the assessments of the models respectively. As previously mentioned, the models are required to be sorted based on their representative errors. Grades 1 to 6 are awarded to each model based on their calculated error in such a way that 6 is the best condition among the models and 1 is the worst. The proposed models sorted based on their error measurement as shown in Table 6.19.

Table 6.19 Graded ballast discharge prediction models based on their measured errors when having high-intensity rainfall

Model number	R2	RMSE	Standard error	#Negative predictions	Total mark	Chosen model
1	5	5	3	6	19	19
2	6	6	1	6	19	19
3	1	1	6	6	14	16
4	4	4	2	6	16	16
5	2	2	5	6	15	15
6	3	3	4	6	16	14

As previously mentioned, from chosen models, the actual measured values need be plotted against the predicted values in order to achieve a visual confirmation of models' precision. Figures 6.18 and 6.19 show these values for models #1 and #2 respectively.

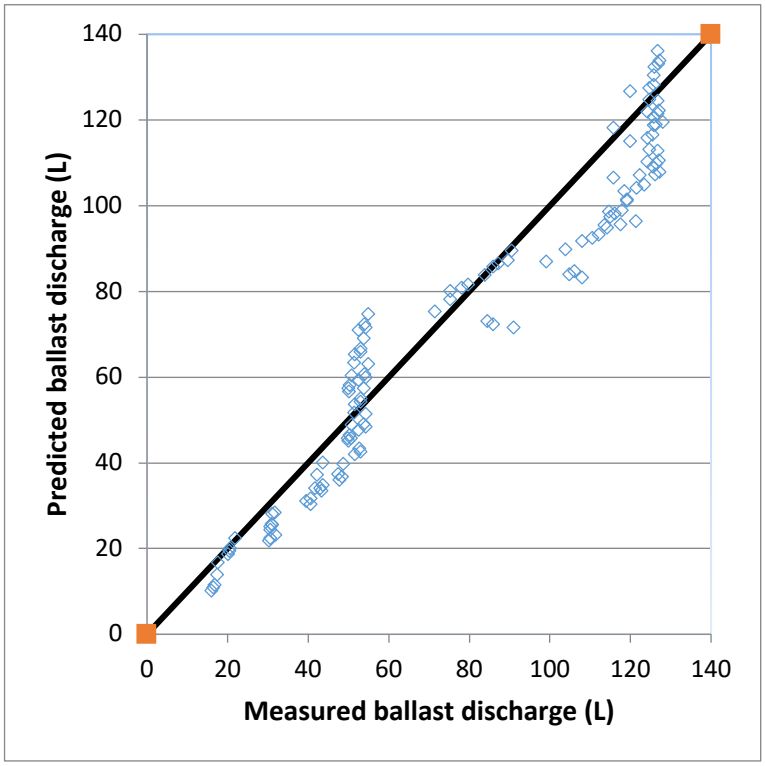


Figure 6.18 Calculated ballast discharge against measured ballast discharge values for model #1

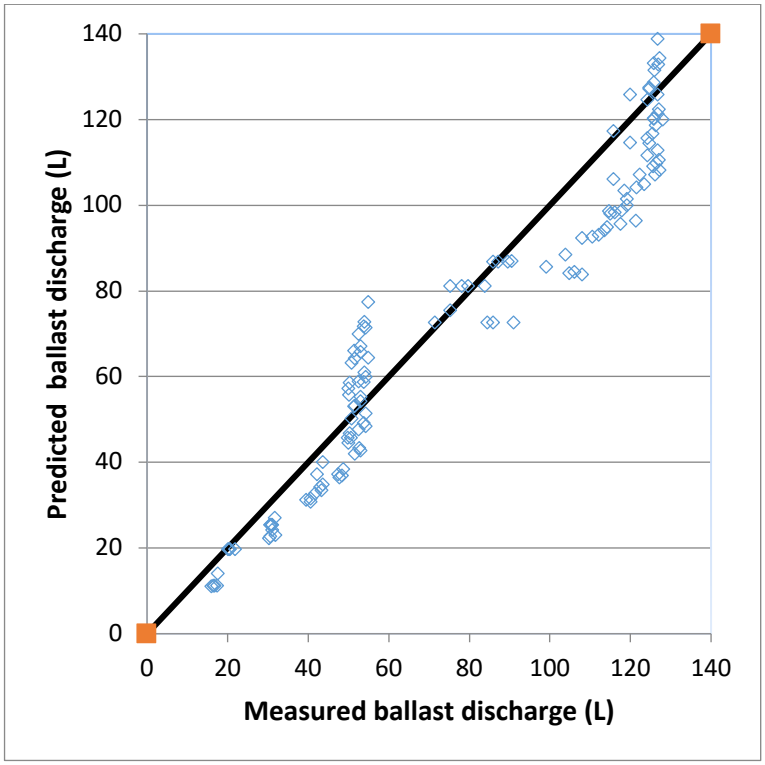


Figure 6.19 Calculated ballast discharge against measured ballast discharge values for model #2

The presented graphs for the entire models are demonstrated in Appendix X. As shown in Figures 6.18 and 6.19, due to higher underestimation in the discharge measurements in 100 L to 130 L interval and over predictions of the values in 40 L to 60 L interval for model #2, it is concluded that model #1 is the best fit for predicting the ballast discharge when having high-intensity rainfall events.

6.2.7 Summary

An investigation was undertaken in order to predict the ballast discharge for different rainfall and section characteristics in Sections 6.2.3 to 6.2.6. Results suggested the model #1 is the most suitable for predicting ballast discharge. As mentioned in Table 6.11, the suggested model has a linear concentration of affecting factors as results are clustered based on the occurred rainfall intensities, the variables coefficients changed with respect to the existing rainfall intensity. Table 6.20 shows the concluded models and calculated coefficients for predicting the water level.

Table 6.20 Calculated coefficients for predicting ballast discharge using linear multi-variable regression

Model number	Rainfall intensity (mm/h)	C	t	i	q	D	K_b
		C (m)	Time after finishing rainfall (h)	Slope (%)	Rainfall intensity (mm/h)	Rainfall duration (h)	Ballast permeability (m/S)
Coefficients unit		m	m/h	m	h	m/h	h
1	33	0	1.7366	0.0662	-0.278	17.985	5.6967
1	45	0	5.8335	2.0526	-0.682	43.795	11.456
1	100	0	11.6439	2.8452	-0.519	122.95	13.6939

6.3 Validation of proposed models

As mentioned previously in Section 6.1.7 and 6.2.7 a set of numerical models is developed based on a linear regression of parameters involved in order to predict the water level and ballast discharge under different rainfall intensities from light rain to storm event. Fouling material is selected to correspond different sources of ballast fouling. As described in Section 3.2.3, used fouling materials were quarry fines particles and kaolin in order to demonstrate surface and bottom infiltration of fines into ballast. In this section, it is tried to examine the water level and the ballast discharge of the section with sand fouled ballast in order to compare the laboratory results with the outcomes of the proposed numerical model to investigate the precision of the models. The hydraulic conductivity of used sand-fouled

ballast was measured previously and the results were reported in Chapter 4. The preparation of the flume container, placement of ballast and subballast, the procedure of fouling, the occurred rainfall intensity and duration were mentioned previously in Chapter 3.

To investigate the ability of presented models to predict water level and ballast discharge under different section and rainfall characteristics, following test are randomly chosen in order to cover a wide range of rainfall intensities, different suggested slopes, dissimilar rainfall durations and extensive range of ballast fouling relative ratio as:

1. 10% sand fouled ballast with rainfall intensity of 33mm/h for 0.5 h on horizontal surface
2. 20% sand fouled ballast with rainfall intensity of 45 mm/h for 1 h on 5% sloped surface
3. 15% sand fouled ballast with rainfall intensity of 100 mm/h for 1 h on 3% sloped surface
4. 20% sand fouled ballast with rainfall intensity of 33 mm/h for 2 h on 5% sloped surface

6.3.1 Delay analysis

The hydraulic flume test is conducted on 4 different sections and rainfall conditions on sand fouled ballast. As reported in Section 5.4, the piezometers indicated a delay before starting to show any sign of the presence of free-water at the base of the flume container. As mentioned in Chapter 5, the lag-time is directly depending on the generated rainfall intensity and time from previous test as an indication of initial moisture contents of subballast and fouled ballast. The entire results of conducted flume laboratory test show the lag-time is independent of the section slope and the duration of rainfall. The measured lag-time for conducted tests are presented in Table 6.21.

It is important to mention testing condition is presented in following template:

Ballast condition (%) - Section slope (%) - Rainfall duration (h) - Rainfall intensity (mm/h)

Table 6.21 Measured lag-time for conducted hydraulic flume test on sand fouled ballast samples

Test condition	Time from previous test (day)	Measured lag-time (min)
10% sand fouled ballast-0-0.5-33	3	19
15% sand fouled ballast-3-1-100	3	3
20% sand fouled ballast-5-1-45	1	16
20% sand fouled ballast-5-2-33	1	20

6.3.2 Water level prediction

The water level for mentioned test conditions were measured as described in Section 3.2.5.1. Water level elevation is resulted from side piezometers readings at 0, 0.5, 1, 2, 3 and 4 hours after ceasing of the rainfall. Predicted values for water level is calculated from Model #1 as described in Section 6.1.7 depending on rainfall intensity of occurred precipitation. Table 6.22 demonstrates the predicted and measured values in the mentioned laboratory tests. It is important to mention testing condition is presented in following template:

Ballast condition (%) - Section slope (%) - Rainfall duration (h) - Rainfall intensity (mm/h)

As described previously, the predicted values need to be plotted with respect to the measured values. In case the schemed values located on the line of y = x, theoretically there is no potential error in prediction of the results. This helps to identify any error when observing the proposed model and can increase the precision of the model. Figures 6.20, 6.21 and 6.22

demonstrate the laboratory measured water level reading against the calculated values from Model#1 for 33, 45 and 100 mm/h rainfall intensity for sand fouled ballast, respectively.

Table 6.22 Laboratory measured water level readings and predicted water level calculated from Model#1

Measured and calculated readings								Independent variables	
10% sand fouled ballast 0-0.5-33		15% sand fouled ballast 3-1-100		20% sand fouled ballast 5-1-45		20% sand fouled ballast 5-2-33		Time (hr)	Distance from centreline (m)
Measured	Calculated	Measured	Calculated	Measured	Calculated	Measured	Calculated		
0.166	0.205367056	0.426	0.360933319	0.324	0.277463432	0.32	0.268473444	0	0.4
0.163	0.202131573	0.428	0.35679082	0.324	0.27382177	0.32	0.265237961	0	0.7
0.163	0.19889609	0.427	0.352648322	0.325	0.270180107	0.318	0.262002478	0	1
0.161	0.195660606	0.428	0.348505824	0.326	0.266538445	0.317	0.258766995	0	1.3
0.159	0.192425123	0.425	0.344363325	0.321	0.262896782	0.315	0.255531511	0	1.6
0.146	0.18918964	0.404	0.340220827	0.299	0.25925512	0.301	0.252296028	0	1.9
0.15	0.183857792	0.341	0.321994867	0.263	0.247380678	0.281	0.246964181	0.5	0.4
0.149	0.180488528	0.341	0.317867232	0.261	0.243724615	0.28	0.243594916	0.5	0.7
0.149	0.177119263	0.34	0.313739598	0.259	0.240068552	0.278	0.240225651	0.5	1
0.148	0.173749998	0.338	0.309611963	0.257	0.236412489	0.275	0.236856386	0.5	1.3
0.143	0.170380733	0.336	0.305484328	0.254	0.232756427	0.273	0.233487121	0.5	1.6
0.134	0.167011468	0.302	0.301356693	0.217	0.229100364	0.239	0.230117857	0.5	1.9
0.121	0.162348529	0.244	0.283056416	0.193	0.217297923	0.184	0.225454917	1	0.4
0.12	0.158845482	0.244	0.278943645	0.194	0.21362746	0.186	0.221951871	1	0.7
0.119	0.155342436	0.244	0.274830873	0.191	0.209956997	0.187	0.218448824	1	1
0.119	0.15183939	0.242	0.270718102	0.188	0.206286534	0.187	0.214945778	1	1.3
0.119	0.148336343	0.241	0.26660533	0.184	0.202616071	0.183	0.211442731	1	1.6
0.111	0.144833297	0.214	0.262492559	0.149	0.198945608	0.151	0.207939685	1	1.9
0.104	0.119330002	0.159	0.205179513	0.126	0.157132414	0.136	0.18243639	2	0.4
0.101	0.115559392	0.161	0.201096469	0.128	0.153433151	0.137	0.17866578	2	0.7
0.098	0.111788782	0.16	0.197013424	0.129	0.149733887	0.136	0.174895171	2	1
0.098	0.108018173	0.159	0.19293038	0.129	0.146034623	0.137	0.171124561	2	1.3
0.093	0.104247563	0.157	0.188847335	0.128	0.14233536	0.134	0.167353951	2	1.6
0.072	0.100476953	0.136	0.184764291	0.103	0.138636096	0.109	0.163583342	2	1.9
0.074	0.076311474	0.118	0.12730261	0.098	0.096966905	0.088	0.139417863	3	0.4
0.07	0.072273301	0.118	0.123249293	0.096	0.093238841	0.088	0.13537969	3	0.7
0.07	0.068235129	0.117	0.119195975	0.094	0.089510777	0.086	0.131341517	3	1
0.068	0.064196956	0.116	0.115142658	0.091	0.085782713	0.085	0.127303344	3	1.3
0.065	0.060158783	0.116	0.11108934	0.088	0.082054648	0.085	0.123265171	3	1.6
0.051	0.05612061	0.091	0.107036023	0.063	0.078326584	0.051	0.119226998	3	1.9
0.054	0.033292947	0.086	0.049425708	0.055	0.036801396	0.044	0.096399335	4	0.4
0.054	0.028987211	0.084	0.045402117	0.053	0.033044531	0.045	0.092093599	4	0.7
0.053	0.024681475	0.081	0.041378526	0.052	0.029287667	0.045	0.087787863	4	1
0.052	0.020375739	0.079	0.037354936	0.051	0.025530802	0.043	0.083482127	4	1.3
0.049	0.016070003	0.078	0.033331345	0.046	0.021773937	0.041	0.079176391	4	1.6
0.036	0.011764267	0.041	0.029307755	0.021	0.018017072	0.016	0.074870655	4	1.9

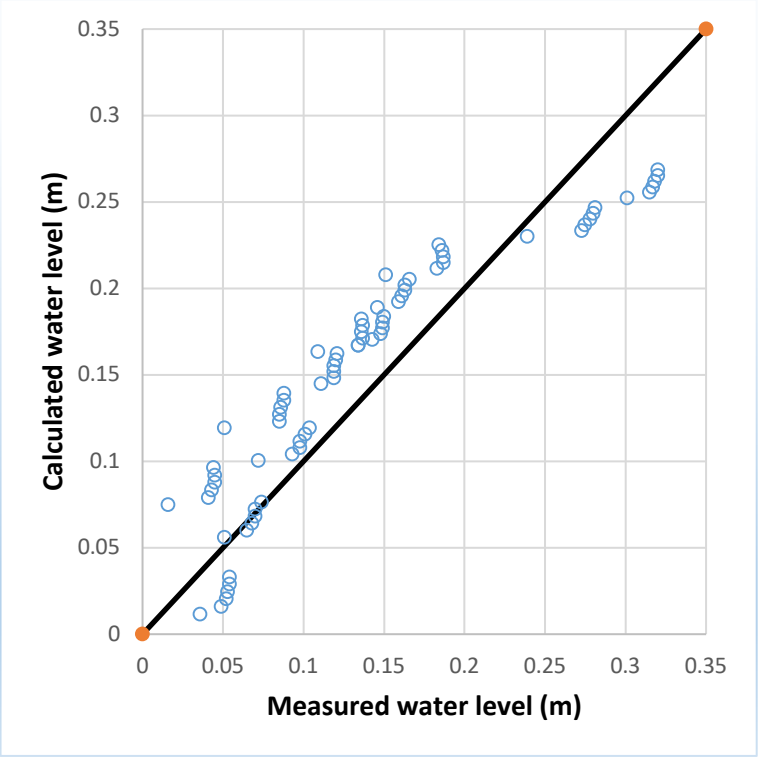


Figure 6.20 Calculated water level against measured water level values for model #1 with low-intensity rainfall

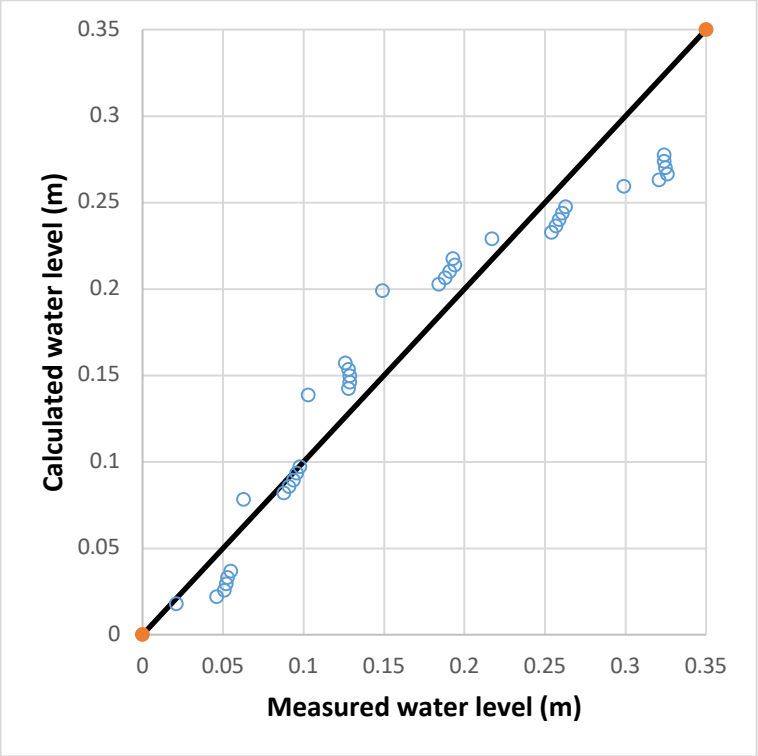


Figure 6.21 Calculated water level against measured water level values for model #1 with medium-intensity rainfall

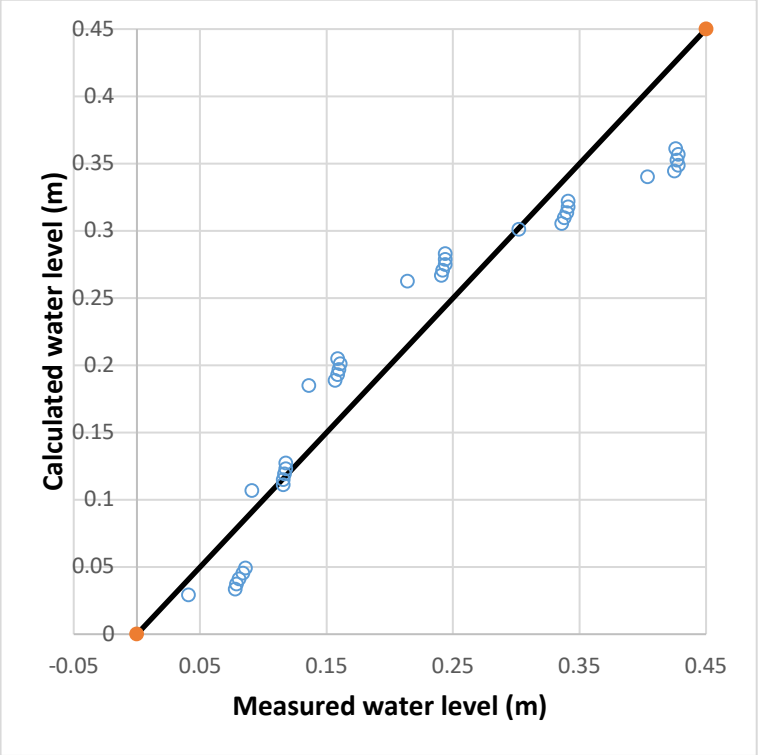


Figure 6.22 Calculated water level against measured water level values for model #1 with high-intensity rainfall

6.3.3 Discharge prediction

The ballast discharge for mentioned test conditions were measured as described in Section 3.2.5.2. Ballast discharge by weighing the weight of collected water from upper side of separator sheet at 0, 1, 2, 3 and 4 hours after ceasing of the rainfall. Predicted values for water level is calculated from Model #1 as described in Section 6.2.7 depending on rainfall intensity and duration. Table 6.23 shows the predicted and measured values in the mentioned laboratory tests. It is important to mention testing condition is presented in following template:

Ballast condition (%) - Section slope (%) - Rainfall duration (h) - Rainfall intensity (mm/h)

Table 6.23 Laboratory measured ballast discharge readings and predicted ballast discharge calculated from Model#1

Measured and calculated readings								
10% sand fouled ballast 0-0.5-33		15% sand fouled ballast 3-1-100		20% sand fouled ballast 5-1-45		20% sand fouled ballast 33-2-5		Time (h)
Measured	Calculated	Measured	Calculated	Measured	Calculated	Measured	Calculated	
3.6	0.5734	70.9	80.0120	15.5	23.4776	21.1	27.1833	0
6.6	2.310	98.1	91.6559	27.9	29.3112	29.2	28.9200	1
7.4	4.0467	121.3	103.2999	34.1	35.1448	34.6	30.6567	2
7.5	5.7834	126.8	114.9438	34.9	40.9784	35	32.3933	3
7.6	7.5200	127.3	126.5878	35.3	46.8119	35.3	34.1300	4

As described previously, the predicted values need to be plotted with respect to the measured values. In case the schemed values located on the line of y = x, theoretically there is no potential error in prediction of the results. This helps to identify any error when observing the proposed model and can increase the precision of the model. Figures 6.23, 6.24 and 6.25 demonstrate the laboratory measured ballast discharge reading against the calculated values from Model#1 for 33, 45 and 100 mm/h rainfall intensity for sand fouled ballast, respectively.

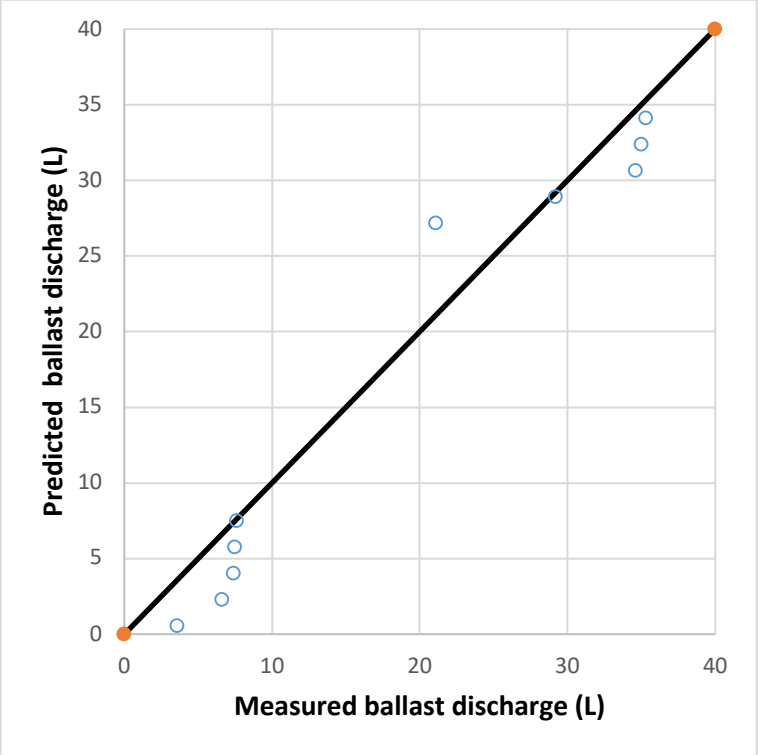


Figure 6.23 Calculated ballast discharge against measured ballast discharge values for model#1 with low-intensity rainfall

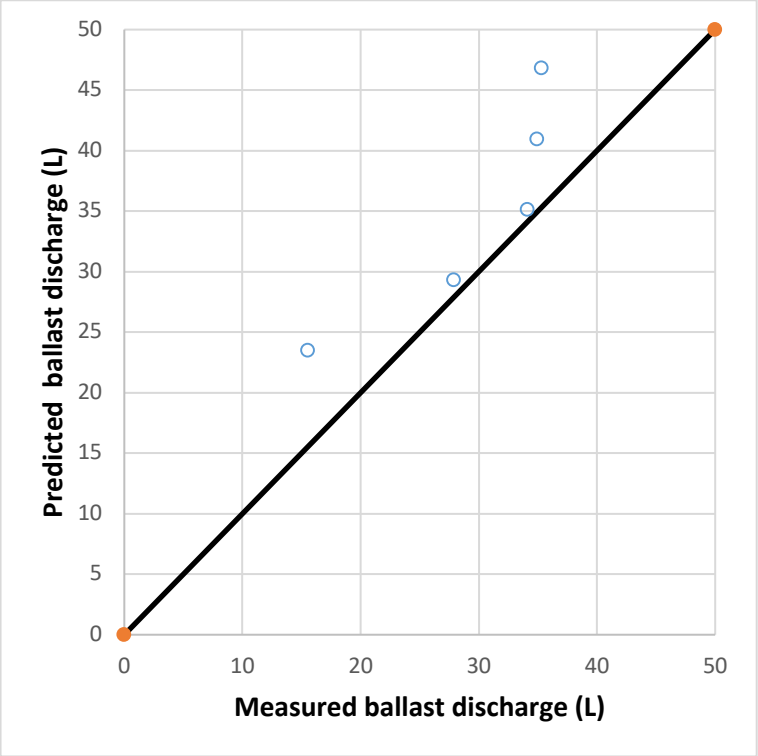


Figure 6.24 Calculated ballast discharge against measured ballast discharge values for model#1 with medium-intensity rainfall

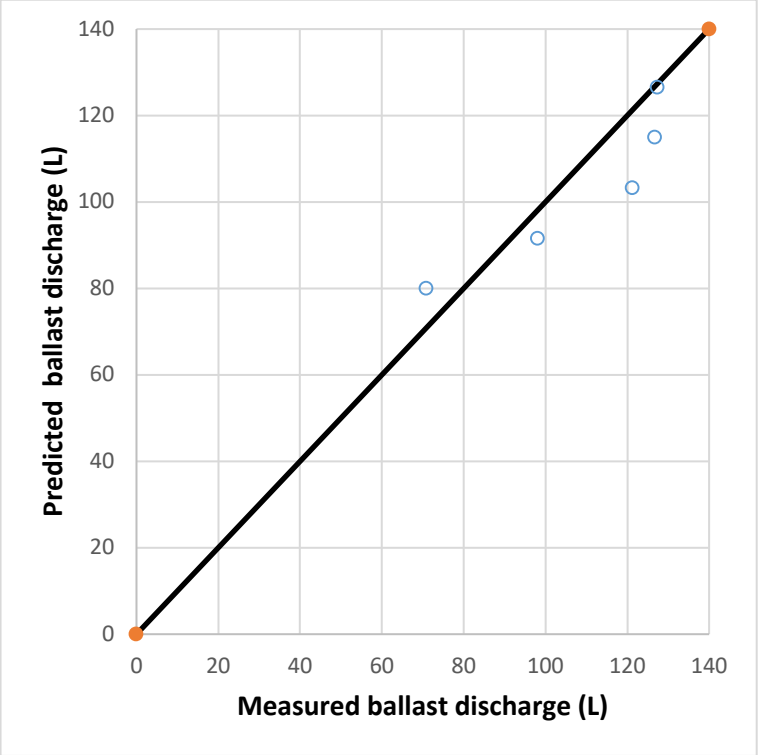


Figure 6.25 Calculated ballast discharge against measured ballast discharge values for model#1 with high-intensity rainfall

6.4 Proposed generalisation study

Calculated coefficients for the selected numerical models based on multi-variable linear regression for estimation of water level and ballast discharge are presented in Tables 6.10 and 6.20 respectively. As mentioned in Section 3.2.3.1 three distinctive rainfall intensities were generated on top of the ballast sample in this study. Presented results in Sections 6.1.3 and 6.2.3 suggested the classification of readings based on the occurred rainfall intensity. Generalisation study is recommended in case the hydraulic flume test is conducted over a wider range of rainfall intensities in order to investigate any relationship in between the calculated coefficients and the generated rainfall intensity. Figures 6.26 and 6.27 demonstrate the calculated coefficients against the generated rainfall intensity for water level and ballast discharge readings respectively.

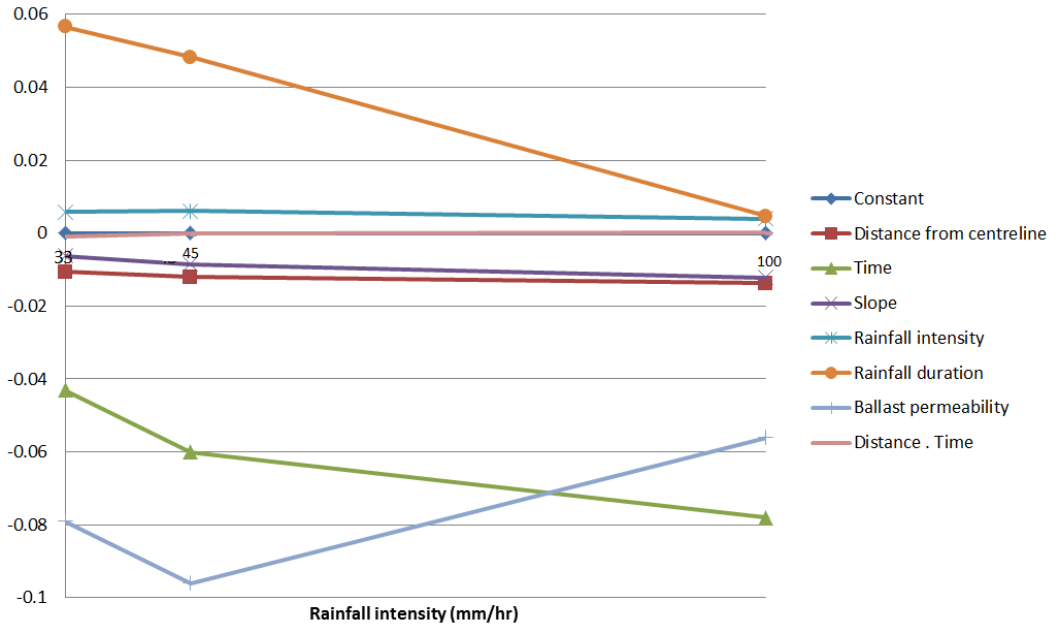


Figure 6.26 Generalisation study on calculated coefficients for estimating water level

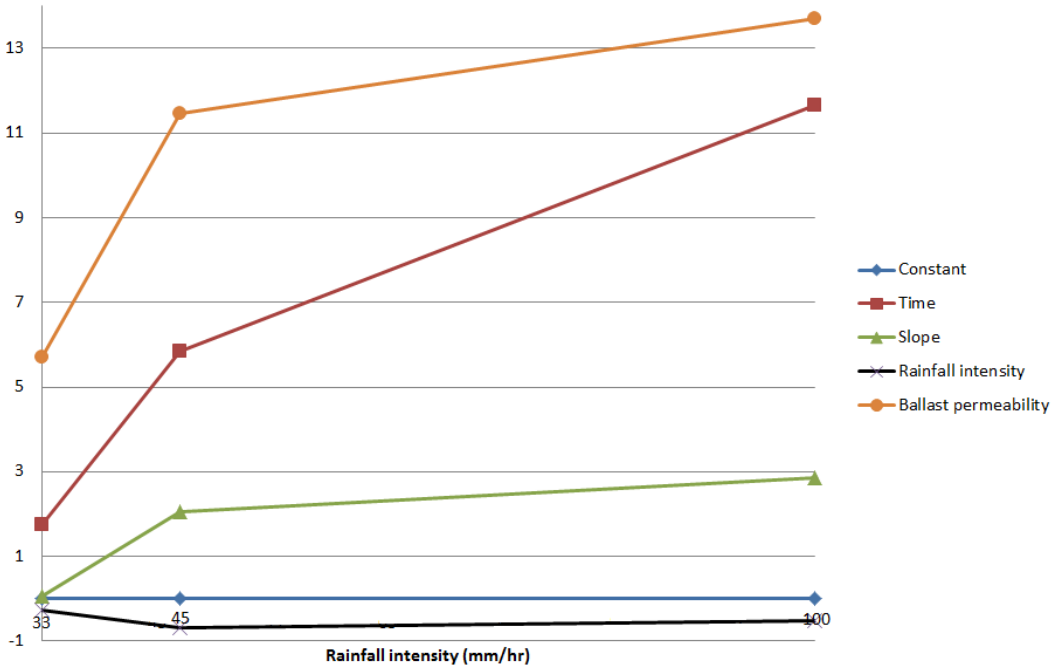


Figure 6.27 Generalisation study on calculated coefficients for estimating ballast discharge

Chapter Seven CONCLUSIONS AND RECOMMENDATIONS FOR FURTHER STUDIES

7.1 Summary

The necessity of adequate drainage system underneath the roads and airfields was emphasised by Cedergren (1967). Selig and Waters (1994) and Hay (1982) stressed on the requirement of a suitable drainage system for super and substructure in several chapters of their texts.

The aim of this research was to study the movement of gravitational water under the railway track ballast and subballast. To meet the aim, a comprehensive literature review was produced in order to identify the components of the railway track system. The sources of water under the tracks were introduced, and the destructive impact of increased moisture on the track behaviour was highlighted. Accordingly, the step by step procedure of design of the surface and subsurface drainage systems were noted. Different sources of fouling were identified, and the existing methods of quantifying them as well as the negative effects of fouling on the behaviour of the section were presented. The flow of water through ballast, subballast and a dual-layer track section consists of ballast and subballast placed on an impermeable subgrade was investigated, and it was concluded to conduct two distinctively different laboratory tests in order to:

1. Assess the effects of ballast degree of contamination and different fouling agents on the flow of water and permeability of this layer
2. Investigate the effects of ballast contamination index and different fouling materials on the water level for the track cross-section and the discharge out of both ballast and subballast layers

The procedure of testing for both nominated laboratory tests was covered in Chapter 3. The entire used material and their engineering characteristics were introduced in this chapter. The required standards, as well as the apparatus details, geometry and characteristics, sample preparation methods and testing procedures, were mentioned in the Methodology.

Chapters 4 and 5 presented the results and discussions of constant-head hydraulic conductivity and hydraulic flume tests, respectively.

Two numerical models were developed in order to predict the water level and ballast discharge in Chapter 6. The presented models were based on multi-variables linear regression and assessed the impacts of different variables such as the degree of fouling, slope, rainfall duration and rainfall intensity on the prediction of water level and the system discharge. Proposed models were classified based on the generated rainfall intensities. The key findings and conclusion for the mentioned study are presented in Section 7.2.

7.2 Conclusions and findings

A series of large-scale hydraulic conductivity test was carried out in order to assess the effect of ballast fouling on the ballast drainage capacity and permeability. Fouling material was chosen in such a way that simulate the different sources of ballast fouling such as top ballast deterioration, top surface infiltration and upward migration of fines from subgrade. The ballast samples were fouled in such a way that correspond clean, moderately clean, moderately fouled, fouled and highly fouled ballast. The key findings and conclusions from the mentioned laboratory test can be named as:

- The reduction in the ballast permeability values of the fouled sample was measured to be up to 25% of their initial values in the interval of clean to 10% relative ballast fouling ratio (moderately clean). The drop in the hydraulic conductivity of fouled sample can be clustered based on fouling agent particle size distribution where

crushed ballast fouled samples have the less, and kaolin fouled ballast samples have the most recorded values of change in the initial permeability values.

- A significant decrease in the ballast hydraulic conductivity values were measured in the moderately fouled interval which is between 10% to 20% relative ballast fouling ratio. The fall in the permeability values were according to fouling material particle size distribution as 92%, 95% and 97% of clean ballast samples for crushed ballast, sand and kaolin particles respectively. Calculated results for constant head permeability tests in this interval confirm the Danquah et al. (2014) and Tennakoon et al. (2012) key findings. According to Sussmann et al. (2012), this can be referred as "ballast breakpoint".
- The reduction in the ballast hydraulic conductivity values were sustained in the intervals of fouled and highly fouled ballast sample based on fouling agent particle size and specific gravity till a point that ballast tends to act as a fouling material regarding drainage and permeability characteristics. This point was achieved in “fouled” zone for crushed ballast particle and” highly fouled” zone for sand particles.
- Undertaken studies on the void ratio of the samples show a drop in the initial void ratio as the sample became progressively fouled. The calculated results show a drop of 82%, 85% and 90% of the initial value for crushed ballast, sand and kaolin particles respectively. This relationship was not linear.

As previously noted, a series of full-scale hydraulic flume tests were conducted in order to identify the flow of water in a dual-layer track section. Fouling materials were chosen in such a way that simulate the different sources of ballast fouling such as top ballast deterioration and upward migration of fines from subgrade. The drainage and permeability characteristics of fouled ballast sample were investigated in Chapter 4. Uniform fouling distribution procedure, rainfall characteristics and section/bed slopes were described in Chapter 3. Results

and discussions for the hydraulic flume test were reported in Chapter 5. The key findings and conclusions for the mentioned laboratory test can be named as:

- The flow of water within the section was in accordance with Heyns (2000) key findings regarding the discharge out of ballast and subballast and piezometers readings. It started with a lag-time and followed by an unsteady rise in the piezometer readings. After this stage, the rate of flow out of ballast and subballast and piezometers became steady. This condition is called “equilibrium”. As soon as rainfall ceased, a drop in piezometers reading and rate of flow out of ballast and subballast were evident as reported in Chapter 5.
- The experimental results demonstrate the water was shed off ballast/subballast interface when the generated rainfall is more than subballast maximum drainage capacity covered in Chapter 5.
- The presented experimental results in Chatper5 confirm the increase of the ballast relative fouling ratio and time in between the tests, results in considerable higher measured piezometer lag-times.
- According to the measured subballast discharges, the capacity of subballast to drain water can be estimated depending on this layer’s thickness, particle size, permeability, slope and initial moisture content. These findings are in accordance with Heyns (2000) study.
- Test results confirm the non-linear relationship between the amount of collected water during the rainfall event for a different duration when having constant section characteristics and rainfall intensity for subballast as this layer become fully saturated. The amount of collected water depends directly on over-head ballast layers’ permeability values when having different fouling index and materials. When

subballast is partially saturated, this layer tends to act unpredictably regarding its initial values of collected water during the rainfall event.

- The experimental results demonstrate that the formation of flow within the ballast required a rainfall intensity which is more than subballast critical rainfall intensity. Results confirm the higher rate of discharge out of the clean ballast is due to this layer's high permeability values.
- Test results confirm the non-linear relationship between the amount of collected water from ballast during the rainfall event for a different duration when having constant section characteristics and rainfall intensity. The impact of ballast permeability on the mentioned parameter investigated in Chapter 5.
- It was concluded that the remaining water cannot be calculated without the knowledge of the initial moisture content of subballast. However, the total gravitational remaining water in the system is calculated. Presented results confirm the direct impact of ballast permeability and specific yield on the total gravitational remaining water in the system after 4 hours of ceasing of the rainfall. When the creation of overflow is observed in high-intensity rainfall over fouled ballast samples, especially over a flat subgrade, the ballast tends to act unpredictably regarding remaining water and its initial amount of water collected during the rainfall event.
- This investigation has focused on the drainage of ballast and subballast on a sloped impermeable base. Laboratory test results confirm the significant impact of slope in total gravitational remaining water and the rate of ballast and subballast discharge. Increasing the section slope makes the procedure of collection of water from both layers quicker and affect the quantity of collected water within 4 hours of finishing rainfall. This amount can vary when having horizontal surface and longer duration of

rainfall due to the testing boundary condition and rise in the water level, especially when samples are highly fouled.

- Two different numerical models were developed to predict the laboratory measured results regarding the water table and the discharge out of the clean and fouled ballast, based on multi-variable linear regression. The entire parameters affecting the water table and the discharge of water from ballast were introduced in Chapter 5 and 6. The proposed models are presented in Tables 6.10 and 6.20 respectively.

7.3 Suggestions for further research

This study was undertaken in order to identify the flow of water beneath the track section. The main aim of this research was to assess the movement of water in the multi-layered track section consist of ballast and subballast on an impermeable subgrade. The hydraulic flume test was carried out in order to investigate the water table and the discharge out of both ballast and subballast over three different rainfall characteristics and different slopes. Fouling materials were chosen in such a way that corresponds the existing sources of fouling in the field, but further investigation is required to realise the procedure of these interactions comprehensively. The following suggestions for further works only present the ideas arising from the undertaken study during this research:

- Calculated coefficients for selected numerical models based on multi-variable linear regression for estimation of water level and ballast discharge are presented in Tables 6.10 and 6.20 respectively. As mentioned in Section 3.2.3.1 three rainfall intensities were generated on top of the ballast sample in this study. Presented results in Sections 6.1.3 and 6.2.3 suggested the classification of readings based on the occurred rainfall intensity. Generalisation study is recommended if the hydraulic flume test is to be conducted over a wider range of rainfall intensities in order to investigate any

relationship in between the calculated coefficients and the generated rainfall intensity. Figures 6.26 and 6.27 demonstrate the calculated coefficients against the generated rainfall intensity for water level and ballast discharge readings respectively.

- Sources of ballast fouling were introduced in Chapter 2 as well as different existing methods of quantifying them. The behaviour of ballast in terms of permeability of this layer under a constant-head flow was investigated, and the results were reported in Chapter 4. The effects of fouling on the ballast discharge and water level in track cross section were examined and the results are reported in Chapter 5. Fouling material was chosen to represent one of the sources of fouling at a time, but this is not the case in the field. An investigation is needed to identify the different types of fouling agents generated from the top and bottom infiltration of fines and ballast deterioration in the field track section. A new procedure of fouling, whether uniformly or non-uniformly distribution of fouling needs to be developed in order to assess the effect of fouling on the permeability of this layer in the first step, followed by a further investigation on the discharge, water level, remaining water and cumulative flow of this layer.
- Measured laboratory results are suggesting the similarity in behaviour of subballast for drainage of water when this layer becomes fully saturated. Presented results in Section 5.5.1.4 propose this pattern depends on section slope and subballast characteristics such as grading, permeability and specific yield. An investigation is required to study the behaviour of partially-saturated subballast under repetitive rainfall events with certain time intervals which results in rising water table but not fully saturating this layer.
- Now that we have a reasonable way of gauging the amount and the rate of discharge of water through the ballast, it will be produent to undertake work on the rate of

deterioration of subgrade soil under different levels of inundation and dynamic loading.

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Appendix I

Measured values						x1	x2	x3	x4	x5
						Time	Slope	Rainfall intensity	Rainfall duration	Ballast permeability
Subballast cumulative flow (lit)	Ballast cumulative flow (lit)	Total outflow (lit)	Total Remaing water (lit)	Inflow (lit)	Intensity (lit/min)	t (h)	i	q (mm/hr)	D (h)	Kb (m/s)
3.1	4	7.1	16.9	24	0.8	0	0	33	0.5	0.32
7.2	4.1	11.3	12.7	24	0.8	1	0	33	0.5	0.32
10.8	4.1	14.9	9.1	24	0.8	2	0	33	0.5	0.32
13.6	4.1	17.7	6.3	24	0.8	3	0	33	0.5	0.32
15.1	4.1	19.2	4.8	24	0.8	4	0	33	0.5	0.32
6.1	8.1	14.2	33.8	48	0.8	0	0	33	1	0.32
10.8	14.3	25.1	22.9	48	0.8	1	0	33	1	0.32
15.2	14.5	29.7	18.3	48	0.8	2	0	33	1	0.32
18.9	14.5	33.4	14.6	48	0.8	3	0	33	1	0.32
21.5	14.6	36.1	11.9	48	0.8	4	0	33	1	0.32
15.6	21.4	37	59	96	0.8	0	0	33	2	0.32
21.3	30.1	51.4	44.6	96	0.8	1	0	33	2	0.32
26.9	34.9	61.8	34.2	96	0.8	2	0	33	2	0.32
32.4	35.1	67.5	28.5	96	0.8	3	0	33	2	0.32
36.8	35.3	72.1	23.9	96	0.8	4	0	33	2	0.32
3.2	6.1	9.3	26.7	36	1.2	0	0	45	0.5	0.32
7.7	11.8	19.5	16.5	36	1.2	1	0	45	0.5	0.32
10.6	12	22.6	13.4	36	1.2	2	0	45	0.5	0.32
12.4	12	24.4	11.6	36	1.2	3	0	45	0.5	0.32
13.4	12	25.4	10.6	36	1.2	4	0	45	0.5	0.32
7.1	12.2	19.3	52.7	72	1.2	0	0	45	1	0.32
13.2	24.1	37.3	34.7	72	1.2	1	0	45	1	0.32
18.4	33.8	52.2	19.8	72	1.2	2	0	45	1	0.32
22.7	33.9	56.6	15.4	72	1.2	3	0	45	1	0.32
25.8	33.9	59.7	12.3	72	1.2	4	0	45	1	0.32
8.6	34.1	42.7	101.3	144	1.2	0	0	45	2	0.32
16	63.7	79.7	64.3	144	1.2	1	0	45	2	0.32
21.9	85	106.9	37.1	144	1.2	2	0	45	2	0.32

26.5	85.5	112	32	144	1.2	3	0	45	2	0.32
30.2	85.6	115.8	28.2	144	1.2	4	0	45	2	0.32
3.8	17.5	21.3	62.7	84	2.8	0	0	100	0.5	0.32
7	31.1	38.1	45.9	84	2.8	1	0	100	0.5	0.32
10.1	42.3	52.4	31.6	84	2.8	2	0	100	0.5	0.32
12.7	49.6	62.3	21.7	84	2.8	3	0	100	0.5	0.32
15.1	50.8	65.9	18.1	84	2.8	4	0	100	0.5	0.32
6.5	41.2	47.7	120.3	168	2.8	0	0	100	1	0.32
11.6	74.1	85.7	82.3	168	2.8	1	0	100	1	0.32
16.6	102.9	119.5	48.5	168	2.8	2	0	100	1	0.32
20.9	118.5	139.4	28.6	168	2.8	3	0	100	1	0.32
24	119.8	143.8	24.2	168	2.8	4	0	100	1	0.32
3.2	4.1	7.3	16.7	24	0.8	0	1	33	0.5	0.32
7.4	4.1	11.5	12.5	24	0.8	1	1	33	0.5	0.32
10.9	4.1	15	9	24	0.8	2	1	33	0.5	0.32
14.1	4.1	18.2	5.8	24	0.8	3	1	33	0.5	0.32
15.8	4.1	19.9	4.1	24	0.8	4	1	33	0.5	0.32
6.1	8.1	14.2	33.8	48	0.8	0	1	33	1	0.32
11	14.4	25.4	22.6	48	0.8	1	1	33	1	0.32
15.4	14.4	29.8	18.2	48	0.8	2	1	33	1	0.32
19.4	14.4	33.8	14.2	48	0.8	3	1	33	1	0.32
22	14.5	36.5	11.5	48	0.8	4	1	33	1	0.32
15.6	21.7	37.3	58.7	96	0.8	0	1	33	2	0.32
21.9	31	52.9	43.1	96	0.8	1	1	33	2	0.32
27.8	35.1	62.9	33.1	96	0.8	2	1	33	2	0.32
33.6	35.2	68.8	27.2	96	0.8	3	1	33	2	0.32
37.9	35.2	73.1	22.9	96	0.8	4	1	33	2	0.32
3.3	6.2	9.5	26.5	36	1.2	0	1	45	0.5	0.32
7.9	12	19.9	16.1	36	1.2	1	1	45	0.5	0.32
10.9	12.1	23	13	36	1.2	2	1	45	0.5	0.32
13	12.1	25.1	10.9	36	1.2	3	1	45	0.5	0.32
14.1	12.1	26.2	9.8	36	1.2	4	1	45	0.5	0.32
7	12.3	19.3	52.7	72	1.2	0	1	45	1	0.32
13.3	24.4	37.7	34.3	72	1.2	1	1	45	1	0.32
18.6	34.2	52.8	19.2	72	1.2	2	1	45	1	0.32
23	34.2	57.2	14.8	72	1.2	3	1	45	1	0.32
25.9	34.2	60.1	11.9	72	1.2	4	1	45	1	0.32
8.7	34.1	42.8	101.2	144	1.2	0	1	45	2	0.32
16.3	64.2	80.5	63.5	144	1.2	1	1	45	2	0.32
22.3	86.3	108.6	35.4	144	1.2	2	1	45	2	0.32
26.8	86.3	113.1	30.9	144	1.2	3	1	45	2	0.32
30.6	86.3	116.9	27.1	144	1.2	4	1	45	2	0.32
3.9	17.6	21.5	62.5	84	2.8	0	1	100	0.5	0.32
7.1	31.7	38.8	45.2	84	2.8	1	1	100	0.5	0.32
10.4	43.7	54.1	29.9	84	2.8	2	1	100	0.5	0.32
13.2	51.5	64.7	19.3	84	2.8	3	1	100	0.5	0.32
15.3	52.1	67.4	16.6	84	2.8	4	1	100	0.5	0.32
6.6	42.6	49.2	118.8	168	2.8	0	1	100	1	0.32

11.9	76.1	88	80	168	2.8	1	1	100	1	0.32
17	106.2	123.2	44.8	168	2.8	2	1	100	1	0.32
21.7	122.9	144.6	23.4	168	2.8	3	1	100	1	0.32
24.9	123.4	148.3	19.7	168	2.8	4	1	100	1	0.32
3.5	4	7.5	16.5	24	0.8	0	3	33	0.5	0.32
9.3	4.2	13.5	10.5	24	0.8	1	3	33	0.5	0.32
14.7	4.2	18.9	5.1	24	0.8	2	3	33	0.5	0.32
16.4	4.2	20.6	3.4	24	0.8	3	3	33	0.5	0.32
17.5	4.2	21.7	2.3	24	0.8	4	3	33	0.5	0.32
6.9	8.2	15.1	32.9	48	0.8	0	3	33	1	0.32
13.2	14.4	27.6	20.4	48	0.8	1	3	33	1	0.32
18.1	14.6	32.7	15.3	48	0.8	2	3	33	1	0.32
23.2	14.7	37.9	10.1	48	0.8	3	3	33	1	0.32
25.8	14.7	40.5	7.5	48	0.8	4	3	33	1	0.32
18.1	25.1	43.2	52.8	96	0.8	0	3	33	2	0.32
25.8	35.4	61.2	34.8	96	0.8	1	3	33	2	0.32
31.5	35.4	66.9	29.1	96	0.8	2	3	33	2	0.32
38.3	35.4	73.7	22.3	96	0.8	3	3	33	2	0.32
44.1	35.4	79.5	16.5	96	0.8	4	3	33	2	0.32
4.2	6.5	10.7	25.3	36	1.2	0	3	45	0.5	0.32
9.3	14	23.3	12.7	36	1.2	1	3	45	0.5	0.32
12.7	14.2	26.9	9.1	36	1.2	2	3	45	0.5	0.32
14.8	14.3	29.1	6.9	36	1.2	3	3	45	0.5	0.32
15.5	14.3	29.8	6.2	36	1.2	4	3	45	0.5	0.32
7.6	13.6	21.2	50.8	72	1.2	0	3	45	1	0.32
13.9	28.3	42.2	29.8	72	1.2	1	3	45	1	0.32
19.5	35.5	55	17	72	1.2	2	3	45	1	0.32
24.1	35.6	59.7	12.3	72	1.2	3	3	45	1	0.32
26.3	35.6	61.9	10.1	72	1.2	4	3	45	1	0.32
8.7	35.7	44.4	99.6	144	1.2	0	3	45	2	0.32
16.6	69.1	85.7	58.3	144	1.2	1	3	45	2	0.32
23.6	91	114.6	29.4	144	1.2	2	3	45	2	0.32
28.5	91.1	119.6	24.4	144	1.2	3	3	45	2	0.32
32.6	91.1	123.7	20.3	144	1.2	4	3	45	2	0.32
4.1	21.7	25.8	58.2	84	2.8	0	3	100	0.5	0.32
7.9	38.8	46.7	37.3	84	2.8	1	3	100	0.5	0.32
11.8	55.6	67.4	16.6	84	2.8	2	3	100	0.5	0.32
15.1	56.7	71.8	12.2	84	2.8	3	3	100	0.5	0.32
16.9	56.8	73.7	10.3	84	2.8	4	3	100	0.5	0.32
7.1	57.5	64.6	103.4	168	2.8	0	3	100	1	0.32
13.9	106.4	120.3	47.7	168	2.8	1	3	100	1	0.32
20	127.6	147.6	20.4	168	2.8	2	3	100	1	0.32
25.3	128.1	153.4	14.6	168	2.8	3	3	100	1	0.32
29.8	128.6	158.4	9.6	168	2.8	4	3	100	1	0.32
4.1	4.2	8.3	15.7	24	0.8	0	5	33	0.5	0.32
11.1	4.3	15.4	8.6	24	0.8	1	5	33	0.5	0.32
16.8	4.3	21.1	2.9	24	0.8	2	5	33	0.5	0.32
18	4.3	22.3	1.7	24	0.8	3	5	33	0.5	0.32

18.1	4.3	22.4	1.6	24	0.8	4	5	33	0.5	0.32
7.4	8.4	15.8	32.2	48	0.8	0	5	33	1	0.32
14.7	15	29.7	18.3	48	0.8	1	5	33	1	0.32
20.1	15.1	35.2	12.8	48	0.8	2	5	33	1	0.32
24.6	15.2	39.8	8.2	48	0.8	3	5	33	1	0.32
28.3	15.2	43.5	4.5	48	0.8	4	5	33	1	0.32
19.3	26.9	46.2	49.8	96	0.8	0	5	33	2	0.32
27.7	36.4	64.1	31.9	96	0.8	1	5	33	2	0.32
35.6	36.5	72.1	23.9	96	0.8	2	5	33	2	0.32
41.4	36.5	77.9	18.1	96	0.8	3	5	33	2	0.32
46.8	36.5	83.3	12.7	96	0.8	4	5	33	2	0.32
5.1	7.2	12.3	23.7	36	1.2	0	5	45	0.5	0.32
11.1	16.1	27.2	8.8	36	1.2	1	5	45	0.5	0.32
14.2	16.1	30.3	5.7	36	1.2	2	5	45	0.5	0.32
15.4	16.1	31.5	4.5	36	1.2	3	5	45	0.5	0.32
15.8	16.1	31.9	4.1	36	1.2	4	5	45	0.5	0.32
8.1	16.7	24.8	47.2	72	1.2	0	5	45	1	0.32
16.7	37.1	53.8	18.2	72	1.2	1	5	45	1	0.32
22.3	37.2	59.5	12.5	72	1.2	2	5	45	1	0.32
26.9	37.2	64.1	7.9	72	1.2	3	5	45	1	0.32
28.3	37.2	65.5	6.5	72	1.2	4	5	45	1	0.32
8.9	49.2	58.1	85.9	144	1.2	0	5	45	2	0.32
17.9	97.6	115.5	28.5	144	1.2	1	5	45	2	0.32
26.3	97.8	124.1	19.9	144	1.2	2	5	45	2	0.32
30.1	97.8	127.9	16.1	144	1.2	3	5	45	2	0.32
34.5	97.8	132.3	11.7	144	1.2	4	5	45	2	0.32
4.4	31.1	35.5	48.5	84	2.8	0	5	100	0.5	0.32
8.9	59.7	68.6	15.4	84	2.8	1	5	100	0.5	0.32
14.2	60.1	74.3	9.7	84	2.8	2	5	100	0.5	0.32
17.6	60.1	77.7	6.3	84	2.8	3	5	100	0.5	0.32
20.1	60.1	80.2	3.8	84	2.8	4	5	100	0.5	0.32
7.6	75.1	82.7	85.3	168	2.8	0	5	100	1	0.32
14.9	128.7	143.6	24.4	168	2.8	1	5	100	1	0.32
21.1	131.5	152.6	15.4	168	2.8	2	5	100	1	0.32
26.9	132.1	159	9	168	2.8	3	5	100	1	0.32
31.3	132.1	163.4	4.6	168	2.8	4	5	100	1	0.32
1.9	3.6	5.5	18.5	24	0.8	0	0	33	0.5	0.151
5.7	6.9	12.6	11.4	24	0.8	1	0	33	0.5	0.151
9.6	7.4	17	7	24	0.8	2	0	33	0.5	0.151
10.7	7.5	18.2	5.8	24	0.8	3	0	33	0.5	0.151
11.6	7.5	19.1	4.9	24	0.8	4	0	33	0.5	0.151
5.3	8	13.3	34.7	48	0.8	0	0	33	1	0.151
9.8	13.9	23.7	24.3	48	0.8	1	0	33	1	0.151
14.1	15.1	29.2	18.8	48	0.8	2	0	33	1	0.151
18.5	15.1	33.6	14.4	48	0.8	3	0	33	1	0.151
21.3	15.1	36.4	11.6	48	0.8	4	0	33	1	0.151
16.1	20.9	37	59	96	0.8	0	0	33	2	0.151

22.4	29.9	52.3	43.7	96	0.8	1	0	33	2	0.151
27.3	35.3	62.6	33.4	96	0.8	2	0	33	2	0.151
32.5	35.6	68.1	27.9	96	0.8	3	0	33	2	0.151
35.9	35.9	71.8	24.2	96	0.8	4	0	33	2	0.151
3.1	6	9.1	26.9	36	1.2	0	0	45	0.5	0.151
7.4	9.7	17.1	18.9	36	1.2	1	0	45	0.5	0.151
10.5	11.8	22.3	13.7	36	1.2	2	0	45	0.5	0.151
12.3	12.3	24.6	11.4	36	1.2	3	0	45	0.5	0.151
13.1	12.4	25.5	10.5	36	1.2	4	0	45	0.5	0.151
7.2	12.1	19.3	52.7	72	1.2	0	0	45	1	0.151
13.2	22.6	35.8	36.2	72	1.2	1	0	45	1	0.151
18.3	31.9	50.2	21.8	72	1.2	2	0	45	1	0.151
21.9	32.4	54.3	17.7	72	1.2	3	0	45	1	0.151
25.1	32.4	57.5	14.5	72	1.2	4	0	45	1	0.151
12.1	41.2	53.3	90.7	144	1.2	0	0	45	2	0.151
17.2	56.6	73.8	70.2	144	1.2	1	0	45	2	0.151
22.1	79.8	101.9	42.1	144	1.2	2	0	45	2	0.151
26.4	94.4	120.8	23.2	144	1.2	3	0	45	2	0.151
29.8	95.1	124.9	19.1	144	1.2	4	0	45	2	0.151
3.9	17.4	21.3	62.7	84	2.8	0	0	100	0.5	0.151
8.7	31	39.7	44.3	84	2.8	1	0	100	0.5	0.151
13.3	41.6	54.9	29.1	84	2.8	2	0	100	0.5	0.151
17.1	48.7	65.8	18.2	84	2.8	3	0	100	0.5	0.151
19.5	50.3	69.8	14.2	84	2.8	4	0	100	0.5	0.151
6.6	42.1	48.7	119.3	168	2.8	0	0	100	1	0.151
11.6	71.8	83.4	84.6	168	2.8	1	0	100	1	0.151
16.8	99.5	116.3	51.7	168	2.8	2	0	100	1	0.151
20.5	125.4	145.9	22.1	168	2.8	3	0	100	1	0.151
23.9	126.7	150.6	17.4	168	2.8	4	0	100	1	0.151
2.4	3.3	5.7	18.3	24	0.8	0	3	33	0.5	0.151
8.3	3.9	12.2	11.8	24	0.8	1	3	33	0.5	0.151
14.4	4	18.4	5.6	24	0.8	2	3	33	0.5	0.151
16.7	4	20.7	3.3	24	0.8	3	3	33	0.5	0.151
17.8	4	21.8	2.2	24	0.8	4	3	33	0.5	0.151
6.6	7.9	14.5	33.5	48	0.8	0	3	33	1	0.151
13	14.1	27.1	20.9	48	0.8	1	3	33	1	0.151
17.4	14.8	32.2	15.8	48	0.8	2	3	33	1	0.151
22.3	14.9	37.2	10.8	48	0.8	3	3	33	1	0.151
24.9	14.9	39.8	8.2	48	0.8	4	3	33	1	0.151
18.6	23.6	42.2	53.8	96	0.8	0	3	33	2	0.151
25.9	31.7	57.6	38.4	96	0.8	1	3	33	2	0.151
32.4	37.1	69.5	26.5	96	0.8	2	3	33	2	0.151
39.1	37.2	76.3	19.7	96	0.8	3	3	33	2	0.151
44.6	37.2	81.8	14.2	96	0.8	4	3	33	2	0.151
4.2	6.4	10.6	25.4	36	1.2	0	3	45	0.5	0.151
10.8	12.4	23.2	12.8	36	1.2	1	3	45	0.5	0.151
14	14.9	28.9	7.1	36	1.2	2	3	45	0.5	0.151
14.9	15	29.9	6.1	36	1.2	3	3	45	0.5	0.151

15.8	15.1	30.9	5.1	36	1.2	4	3	45	0.5	0.151
7.4	13.3	20.7	51.3	72	1.2	0	3	45	1	0.151
13.5	25.9	39.4	32.6	72	1.2	1	3	45	1	0.151
18.9	33.7	52.6	19.4	72	1.2	2	3	45	1	0.151
24.1	34	58.1	13.9	72	1.2	3	3	45	1	0.151
25.9	34.1	60	12	72	1.2	4	3	45	1	0.151
12.2	48.1	60.3	83.7	144	1.2	0	3	45	2	0.151
17.9	70.3	88.2	55.8	144	1.2	1	3	45	2	0.151
25.6	88.9	114.5	29.5	144	1.2	2	3	45	2	0.151
28.3	95.3	123.6	20.4	144	1.2	3	3	45	2	0.151
32.4	95.5	127.9	16.1	144	1.2	4	3	45	2	0.151
4.1	21.5	25.6	58.4	84	2.8	0	3	100	0.5	0.151
10.1	37.9	48	36	84	2.8	1	3	100	0.5	0.151
15.5	53.8	69.3	14.7	84	2.8	2	3	100	0.5	0.151
20.1	54.4	74.5	9.5	84	2.8	3	3	100	0.5	0.151
23.6	54.7	78.3	5.7	84	2.8	4	3	100	0.5	0.151
7.2	72.3	79.5	88.5	168	2.8	0	3	100	1	0.151
13.5	99.9	113.4	54.6	168	2.8	1	3	100	1	0.151
19.2	125.9	145.1	22.9	168	2.8	2	3	100	1	0.151
24.8	127	151.8	16.2	168	2.8	3	3	100	1	0.151
28.6	127.3	155.9	12.1	168	2.8	4	3	100	1	0.151
3.9	3.1	7	17	24	0.8	0	5	33	0.5	0.151
10.8	3.3	14.1	9.9	24	0.8	1	5	33	0.5	0.151
16.1	3.3	19.4	4.6	24	0.8	2	5	33	0.5	0.151
17.7	3.4	21.1	2.9	24	0.8	3	5	33	0.5	0.151
17.9	3.4	21.3	2.7	24	0.8	4	5	33	0.5	0.151
7.5	7.9	15.4	32.6	48	0.8	0	5	33	1	0.151
14.5	14.8	29.3	18.7	48	0.8	1	5	33	1	0.151
19.7	15	34.7	13.3	48	0.8	2	5	33	1	0.151
23.9	15.1	39	9	48	0.8	3	5	33	1	0.151
27.6	15.1	42.7	5.3	48	0.8	4	5	33	1	0.151
19.2	25.7	44.9	51.1	96	0.8	0	5	33	2	0.151
27.8	34.9	62.7	33.3	96	0.8	1	5	33	2	0.151
36	35.3	71.3	24.7	96	0.8	2	5	33	2	0.151
41.4	36.1	77.5	18.5	96	0.8	3	5	33	2	0.151
46.5	36.3	82.8	13.2	96	0.8	4	5	33	2	0.151
5	7.1	12.1	23.9	36	1.2	0	5	45	0.5	0.151
10.9	15.8	26.7	9.3	36	1.2	1	5	45	0.5	0.151
14.1	16	30.1	5.9	36	1.2	2	5	45	0.5	0.151
15.3	16.1	31.4	4.6	36	1.2	3	5	45	0.5	0.151
15.7	16.1	31.8	4.2	36	1.2	4	5	45	0.5	0.151
8	16.3	24.3	47.7	72	1.2	0	5	45	1	0.151
15.7	32.3	48	24	72	1.2	1	5	45	1	0.151
23.1	35.9	59	13	72	1.2	2	5	45	1	0.151
28.9	36.1	65	7	72	1.2	3	5	45	1	0.151
34	36.3	70.3	1.7	72	1.2	4	5	45	1	0.151
16.9	62.3	79.2	64.8	144	1.2	0	5	45	2	0.151
24.6	89.7	114.3	29.7	144	1.2	1	5	45	2	0.151

32.4	99.1	131.5	12.5	144	1.2	2	5	45	2	0.151
36.2	99.8	136	8	144	1.2	3	5	45	2	0.151
39.9	100	139.9	4.1	144	1.2	4	5	45	2	0.151
4.4	21.6	26	58	84	2.8	0	5	100	0.5	0.151
12	38.3	50.3	33.7	84	2.8	1	5	100	0.5	0.151
18.3	54.9	73.2	10.8	84	2.8	2	5	100	0.5	0.151
22.9	55.3	78.2	5.8	84	2.8	3	5	100	0.5	0.151
26.8	55.6	82.4	1.6	84	2.8	4	5	100	0.5	0.151
7.7	74.4	82.1	85.9	168	2.8	0	5	100	1	0.151
15	101.3	116.3	51.7	168	2.8	1	5	100	1	0.151
21.6	125.9	147.5	20.5	168	2.8	2	5	100	1	0.151
26.7	126.1	152.8	15.2	168	2.8	3	5	100	1	0.151
31.3	126.2	157.5	10.5	168	2.8	4	5	100	1	0.151
1.7	3.7	5.4	18.6	24	0.8	0	0	33	0.5	0.099
5.4	6.8	12.2	11.8	24	0.8	1	0	33	0.5	0.099
9.5	7.5	17	7	24	0.8	2	0	33	0.5	0.099
10.5	7.6	18.1	5.9	24	0.8	3	0	33	0.5	0.099
11.7	7.7	19.4	4.6	24	0.8	4	0	33	0.5	0.099
5.6	7.9	13.5	34.5	48	0.8	0	0	33	1	0.099
9.5	11.8	21.3	26.7	48	0.8	1	0	33	1	0.099
13.8	13.4	27.2	20.8	48	0.8	2	0	33	1	0.099
17.9	13.6	31.5	16.5	48	0.8	3	0	33	1	0.099
20.4	13.7	34.1	13.9	48	0.8	4	0	33	1	0.099
16	18.6	34.6	61.4	96	0.8	0	0	33	2	0.099
21.9	26.7	48.6	47.4	96	0.8	1	0	33	2	0.099
26.8	33.8	60.6	35.4	96	0.8	2	0	33	2	0.099
31.7	35.7	67.4	28.6	96	0.8	3	0	33	2	0.099
34.5	37.1	71.6	24.4	96	0.8	4	0	33	2	0.099
3.2	5.9	9.1	26.9	36	1.2	0	0	45	0.5	0.099
7.5	10.1	17.6	18.4	36	1.2	1	0	45	0.5	0.099
10.4	11.5	21.9	14.1	36	1.2	2	0	45	0.5	0.099
12.1	11.7	23.8	12.2	36	1.2	3	0	45	0.5	0.099
12.9	11.9	24.8	11.2	36	1.2	4	0	45	0.5	0.099
7.1	12	19.1	52.9	72	1.2	0	0	45	1	0.099
12.9	22.1	35	37	72	1.2	1	0	45	1	0.099
18.3	30.3	48.6	23.4	72	1.2	2	0	45	1	0.099
21.8	31.1	52.9	19.1	72	1.2	3	0	45	1	0.099
25.4	31.2	56.6	15.4	72	1.2	4	0	45	1	0.099
12.8	40.4	53.2	90.8	144	1.2	0	0	45	2	0.099
17.5	61.7	79.2	64.8	144	1.2	1	0	45	2	0.099
22.1	80.4	102.5	41.5	144	1.2	2	0	45	2	0.099
26.3	95.1	121.4	22.6	144	1.2	3	0	45	2	0.099
29.1	96	125.1	18.9	144	1.2	4	0	45	2	0.099
4	17.5	21.5	62.5	84	2.8	0	0	100	0.5	0.099
8.8	30.7	39.5	44.5	84	2.8	1	0	100	0.5	0.099
13.3	41.1	54.4	29.6	84	2.8	2	0	100	0.5	0.099
17.1	47.9	65	19	84	2.8	3	0	100	0.5	0.099
20.1	50	70.1	13.9	84	2.8	4	0	100	0.5	0.099

6.3	41.4	47.7	120.3	168	2.8	0	0	100	1	0.099
11.1	70.9	82	86	168	2.8	1	0	100	1	0.099
16.3	96.9	113.2	54.8	168	2.8	2	0	100	1	0.099
20.7	123.8	144.5	23.5	168	2.8	3	0	100	1	0.099
23.7	125.2	148.9	19.1	168	2.8	4	0	100	1	0.099
3.2	3.4	6.6	17.4	24	0.8	0	3	33	0.5	0.099
8.8	4.1	12.9	11.1	24	0.8	1	3	33	0.5	0.099
13.9	4.1	18	6	24	0.8	2	3	33	0.5	0.099
15.9	4.2	20.1	3.9	24	0.8	3	3	33	0.5	0.099
17.1	4.3	21.4	2.6	24	0.8	4	3	33	0.5	0.099
6.8	8.1	14.9	33.1	48	0.8	0	3	33	1	0.099
13.1	13.8	26.9	21.1	48	0.8	1	3	33	1	0.099
17.6	14.9	32.5	15.5	48	0.8	2	3	33	1	0.099
22	15.1	37.1	10.9	48	0.8	3	3	33	1	0.099
24.7	15.3	40	8	48	0.8	4	3	33	1	0.099
18.3	23.3	41.6	54.4	96	0.8	0	3	33	2	0.099
25.4	32.1	57.5	38.5	96	0.8	1	3	33	2	0.099
32.1	37.6	69.7	26.3	96	0.8	2	3	33	2	0.099
38.8	38	76.8	19.2	96	0.8	3	3	33	2	0.099
44.2	38.2	82.4	13.6	96	0.8	4	3	33	2	0.099
4.1	6.1	10.2	25.8	36	1.2	0	3	45	0.5	0.099
10.8	12.2	23	13	36	1.2	1	3	45	0.5	0.099
13.9	13.9	27.8	8.2	36	1.2	2	3	45	0.5	0.099
14.8	14.1	28.9	7.1	36	1.2	3	3	45	0.5	0.099
15.7	14.4	30.1	5.9	36	1.2	4	3	45	0.5	0.099
7.4	13.4	20.8	51.2	72	1.2	0	3	45	1	0.099
13.6	24.8	38.4	33.6	72	1.2	1	3	45	1	0.099
18.7	33.1	51.8	20.2	72	1.2	2	3	45	1	0.099
23.9	33.7	57.6	14.4	72	1.2	3	3	45	1	0.099
25.4	33.9	59.3	12.7	72	1.2	4	3	45	1	0.099
12.4	46.5	58.9	85.1	144	1.2	0	3	45	2	0.099
18.1	69.1	87.2	56.8	144	1.2	1	3	45	2	0.099
23.5	87.6	111.1	32.9	144	1.2	2	3	45	2	0.099
28.4	94.1	122.5	21.5	144	1.2	3	3	45	2	0.099
32.9	94.2	127.1	16.9	144	1.2	4	3	45	2	0.099
4.2	21.4	25.6	58.4	84	2.8	0	3	100	0.5	0.099
8	37.3	45.3	38.7	84	2.8	1	3	100	0.5	0.099
11.9	53.5	65.4	18.6	84	2.8	2	3	100	0.5	0.099
14.8	54.1	68.9	15.1	84	2.8	3	3	100	0.5	0.099
16.4	54.5	70.9	13.1	84	2.8	4	3	100	0.5	0.099
7	71.4	78.4	89.6	168	2.8	0	3	100	1	0.099
13.6	98.6	112.2	55.8	168	2.8	1	3	100	1	0.099
20.1	121.6	141.7	26.3	168	2.8	2	3	100	1	0.099
24.7	124.2	148.9	19.1	168	2.8	3	3	100	1	0.099
27.9	124.7	152.6	15.4	168	2.8	4	3	100	1	0.099
4	3	7	17	24	0.8	0	5	33	0.5	0.099
10.6	3.1	13.7	10.3	24	0.8	1	5	33	0.5	0.099
15.9	3.2	19.1	4.9	24	0.8	2	5	33	0.5	0.099

17.5	3.3	20.8	3.2	24	0.8	3	5	33	0.5	0.099
17.8	3.3	21.1	2.9	24	0.8	4	5	33	0.5	0.099
7.5	8	15.5	32.5	48	0.8	0	5	33	1	0.099
14.3	14.7	29	19	48	0.8	1	5	33	1	0.099
19.6	15	34.6	13.4	48	0.8	2	5	33	1	0.099
23.8	15.3	39.1	8.9	48	0.8	3	5	33	1	0.099
27.1	15.5	42.6	5.4	48	0.8	4	5	33	1	0.099
19.5	25.6	45.1	50.9	96	0.8	0	5	33	2	0.099
27.4	35.2	62.6	33.4	96	0.8	1	5	33	2	0.099
35.1	36	71.1	24.9	96	0.8	2	5	33	2	0.099
40.9	36.2	77.1	18.9	96	0.8	3	5	33	2	0.099
45.6	36.4	82	14	96	0.8	4	5	33	2	0.099
5.1	6.8	11.9	24.1	36	1.2	0	5	45	0.5	0.099
11	14.9	25.9	10.1	36	1.2	1	5	45	0.5	0.099
14.2	15.3	29.5	6.5	36	1.2	2	5	45	0.5	0.099
15.3	15.5	30.8	5.2	36	1.2	3	5	45	0.5	0.099
15.6	15.7	31.3	4.7	36	1.2	4	5	45	0.5	0.099
8.1	16.5	24.6	47.4	72	1.2	0	5	45	1	0.099
16.7	31.9	48.6	23.4	72	1.2	1	5	45	1	0.099
22.1	36.3	58.4	13.6	72	1.2	2	5	45	1	0.099
27.9	36.4	64.3	7.7	72	1.2	3	5	45	1	0.099
33.4	36.5	69.9	2.1	72	1.2	4	5	45	1	0.099
16.8	48.5	65.3	78.7	144	1.2	0	5	45	2	0.099
24.3	88.1	112.4	31.6	144	1.2	1	5	45	2	0.099
32.1	97.7	129.8	14.2	144	1.2	2	5	45	2	0.099
35.9	98	133.9	10.1	144	1.2	3	5	45	2	0.099
38.7	98.2	136.9	7.1	144	1.2	4	5	45	2	0.099
4.1	21.4	25.5	58.5	84	2.8	0	5	100	0.5	0.099
12.3	38.1	50.4	33.6	84	2.8	1	5	100	0.5	0.099
19.1	53.7	72.8	11.2	84	2.8	2	5	100	0.5	0.099
23.3	53.9	77.2	6.8	84	2.8	3	5	100	0.5	0.099
26.6	54.2	80.8	3.2	84	2.8	4	5	100	0.5	0.099
7.5	72	79.5	88.5	168	2.8	0	5	100	1	0.099
15.3	103.9	119.2	48.8	168	2.8	1	5	100	1	0.099
22	121.8	143.8	24.2	168	2.8	2	5	100	1	0.099
25.9	122.1	148	20	168	2.8	3	5	100	1	0.099
30.6	122.5	153.1	14.9	168	2.8	4	5	100	1	0.099
1.6	3.4	5	19	24	0.8	0	0	33	0.5	0.047
5	6.5	11.5	12.5	24	0.8	1	0	33	0.5	0.047
8.4	7	15.4	8.6	24	0.8	2	0	33	0.5	0.047
10.2	7.1	17.3	6.7	24	0.8	3	0	33	0.5	0.047
11.1	7.2	18.3	5.7	24	0.8	4	0	33	0.5	0.047
5.1	7.6	12.7	35.3	48	0.8	0	0	33	1	0.047
9.7	13.1	22.8	25.2	48	0.8	1	0	33	1	0.047
13.9	14.8	28.7	19.3	48	0.8	2	0	33	1	0.047
18.1	15.1	33.2	14.8	48	0.8	3	0	33	1	0.047
21	15.2	36.2	11.8	48	0.8	4	0	33	1	0.047
16	20.7	36.7	59.3	96	0.8	0	0	33	2	0.047

21.8	28.6	50.4	45.6	96	0.8	1	0	33	2	0.047
27.6	34.1	61.7	34.3	96	0.8	2	0	33	2	0.047
31.4	35.2	66.6	29.4	96	0.8	3	0	33	2	0.047
35.3	35.3	70.6	25.4	96	0.8	4	0	33	2	0.047
3.2	5.5	8.7	27.3	36	1.2	0	0	45	0.5	0.047
7.5	9.8	17.3	18.7	36	1.2	1	0	45	0.5	0.047
10.6	11.7	22.3	13.7	36	1.2	2	0	45	0.5	0.047
12.2	11.9	24.1	11.9	36	1.2	3	0	45	0.5	0.047
13.2	12	25.2	10.8	36	1.2	4	0	45	0.5	0.047
7	11.7	18.7	53.3	72	1.2	0	0	45	1	0.047
13.4	21.9	35.3	36.7	72	1.2	1	0	45	1	0.047
18.9	29	47.9	24.1	72	1.2	2	0	45	1	0.047
21.5	29.7	51.2	20.8	72	1.2	3	0	45	1	0.047
23.6	29.8	53.4	18.6	72	1.2	4	0	45	1	0.047
11.4	39.7	51.1	92.9	144	1.2	0	0	45	2	0.047
16.3	54.3	70.6	73.4	144	1.2	1	0	45	2	0.047
21.4	68.7	90.1	53.9	144	1.2	2	0	45	2	0.047
25.1	80.6	105.7	38.3	144	1.2	3	0	45	2	0.047
29.2	81.3	110.5	33.5	144	1.2	4	0	45	2	0.047
3.8	17.1	20.9	63.1	84	2.8	0	0	100	0.5	0.047
8.6	29.8	38.4	45.6	84	2.8	1	0	100	0.5	0.047
13.1	40.3	53.4	30.6	84	2.8	2	0	100	0.5	0.047
16.9	47.7	64.6	19.4	84	2.8	3	0	100	0.5	0.047
19.7	48.5	68.2	15.8	84	2.8	4	0	100	0.5	0.047
6.4	41.3	47.7	120.3	168	2.8	0	0	100	1	0.047
12.1	69.7	81.8	86.2	168	2.8	1	0	100	1	0.047
16.9	98.6	115.5	52.5	168	2.8	2	0	100	1	0.047
20.3	123.2	143.5	24.5	168	2.8	3	0	100	1	0.047
24	125.8	149.8	18.2	168	2.8	4	0	100	1	0.047
2.3	3.4	5.7	18.3	24	0.8	0	3	33	0.5	0.047
8.2	4	12.2	11.8	24	0.8	1	3	33	0.5	0.047
14.2	4.1	18.3	5.7	24	0.8	2	3	33	0.5	0.047
16.3	4.2	20.5	3.5	24	0.8	3	3	33	0.5	0.047
17.6	4.2	21.8	2.2	24	0.8	4	3	33	0.5	0.047
6.7	7.4	14.1	33.9	48	0.8	0	3	33	1	0.047
13.2	13.5	26.7	21.3	48	0.8	1	3	33	1	0.047
18.4	14.6	33	15	48	0.8	2	3	33	1	0.047
22.9	14.7	37.6	10.4	48	0.8	3	3	33	1	0.047
24.8	14.7	39.5	8.5	48	0.8	4	3	33	1	0.047
18.5	21.2	39.7	56.3	96	0.8	0	3	33	2	0.047
25.7	29.6	55.3	40.7	96	0.8	1	3	33	2	0.047
31.8	35.3	67.1	28.9	96	0.8	2	3	33	2	0.047
36.3	35.7	72	24	96	0.8	3	3	33	2	0.047
40.4	35.8	76.2	19.8	96	0.8	4	3	33	2	0.047
4	6.3	10.3	25.7	36	1.2	0	3	45	0.5	0.047
10.6	12.4	23	13	36	1.2	1	3	45	0.5	0.047
13.8	14.6	28.4	7.6	36	1.2	2	3	45	0.5	0.047
14.7	14.8	29.5	6.5	36	1.2	3	3	45	0.5	0.047

15.3	14.9	30.2	5.8	36	1.2	4	3	45	0.5	0.047
7.6	12.9	20.5	51.5	72	1.2	0	3	45	1	0.047
14.1	25.1	39.2	32.8	72	1.2	1	3	45	1	0.047
19.8	33.5	53.3	18.7	72	1.2	2	3	45	1	0.047
23.9	33.7	57.6	14.4	72	1.2	3	3	45	1	0.047
25.6	33.8	59.4	12.6	72	1.2	4	3	45	1	0.047
12.6	44.3	56.9	87.1	144	1.2	0	3	45	2	0.047
19.5	68.9	88.4	55.6	144	1.2	1	3	45	2	0.047
25.4	89.6	115	29	144	1.2	2	3	45	2	0.047
30.9	91.3	122.2	21.8	144	1.2	3	3	45	2	0.047
34.1	91.8	125.9	18.1	144	1.2	4	3	45	2	0.047
4.1	20.8	24.9	59.1	84	2.8	0	3	100	0.5	0.047
9.9	36.3	46.2	37.8	84	2.8	1	3	100	0.5	0.047
15.3	50.2	65.5	18.5	84	2.8	2	3	100	0.5	0.047
19.8	51.9	71.7	12.3	84	2.8	3	3	100	0.5	0.047
23.2	53.3	76.5	7.5	84	2.8	4	3	100	0.5	0.047
7	71.2	78.2	89.8	168	2.8	0	3	100	1	0.047
13.4	100.6	114	54	168	2.8	1	3	100	1	0.047
18.8	126.9	145.7	22.3	168	2.8	2	3	100	1	0.047
24.1	128.3	152.4	15.6	168	2.8	3	3	100	1	0.047
28.8	129.7	158.5	9.5	168	2.8	4	3	100	1	0.047
3.6	3	6.6	17.4	24	0.8	0	5	33	0.5	0.047
10.2	3.3	13.5	10.5	24	0.8	1	5	33	0.5	0.047
15.9	3.4	19.3	4.7	24	0.8	2	5	33	0.5	0.047
17.2	3.4	20.6	3.4	24	0.8	3	5	33	0.5	0.047
17.7	3.4	21.1	2.9	24	0.8	4	5	33	0.5	0.047
7.3	7.6	14.9	33.1	48	0.8	0	5	33	1	0.047
14.2	14.3	28.5	19.5	48	0.8	1	5	33	1	0.047
20	14.6	34.6	13.4	48	0.8	2	5	33	1	0.047
23.8	14.7	38.5	9.5	48	0.8	3	5	33	1	0.047
27	14.8	41.8	6.2	48	0.8	4	5	33	1	0.047
19.3	23.1	42.4	53.6	96	0.8	0	5	33	2	0.047
27.1	34.7	61.8	34.2	96	0.8	1	5	33	2	0.047
33.2	35.7	68.9	27.1	96	0.8	2	5	33	2	0.047
39.6	35.8	75.4	20.6	96	0.8	3	5	33	2	0.047
44.5	35.9	80.4	15.6	96	0.8	4	5	33	2	0.047
5.1	7.2	12.3	23.7	36	1.2	0	5	45	0.5	0.047
11.2	15.6	26.8	9.2	36	1.2	1	5	45	0.5	0.047
14.5	15.7	30.2	5.8	36	1.2	2	5	45	0.5	0.047
15.4	15.8	31.2	4.8	36	1.2	3	5	45	0.5	0.047
15.7	15.8	31.5	4.5	36	1.2	4	5	45	0.5	0.047
7.9	16.1	24	48	72	1.2	0	5	45	1	0.047
15.8	29.2	45	27	72	1.2	1	5	45	1	0.047
22.1	36.3	58.4	13.6	72	1.2	2	5	45	1	0.047
27.9	36.4	64.3	7.7	72	1.2	3	5	45	1	0.047
33.6	36.5	70.1	1.9	72	1.2	4	5	45	1	0.047
17.1	60.8	77.9	66.1	144	1.2	0	5	45	2	0.047
24.3	88.3	112.6	31.4	144	1.2	1	5	45	2	0.047

32.1	99.1	131.2	12.8	144	1.2	2	5	45	2	0.047
35.9	99.3	135.2	8.8	144	1.2	3	5	45	2	0.047
38.6	99.5	138.1	5.9	144	1.2	4	5	45	2	0.047
4.8	21.7	26.5	57.5	84	2.8	0	5	100	0.5	0.047
12.1	37.8	49.9	34.1	84	2.8	1	5	100	0.5	0.047
18.9	54.1	73	11	84	2.8	2	5	100	0.5	0.047
23.1	54.3	77.4	6.6	84	2.8	3	5	100	0.5	0.047
27.3	54.3	81.6	2.4	84	2.8	4	5	100	0.5	0.047
9.1	73.1	82.2	85.8	168	2.8	0	5	100	1	0.047
16.9	101.3	118.2	49.8	168	2.8	1	5	100	1	0.047
24.6	126.3	150.9	17.1	168	2.8	2	5	100	1	0.047
30.3	126.6	156.9	11.1	168	2.8	3	5	100	1	0.047
35.4	127	162.4	5.6	168	2.8	4	5	100	1	0.047
1.4	3.3	4.7	19.3	24	0.8	0	0	33	0.5	0.015
4.9	6.4	11.3	12.7	24	0.8	1	0	33	0.5	0.015
8.3	7.1	15.4	8.6	24	0.8	2	0	33	0.5	0.015
10.2	7.2	17.4	6.6	24	0.8	3	0	33	0.5	0.015
11.1	7.4	18.5	5.5	24	0.8	4	0	33	0.5	0.015
5.4	7.3	12.7	35.3	48	0.8	0	0	33	1	0.015
9.3	10.9	20.2	27.8	48	0.8	1	0	33	1	0.015
13.2	13.1	26.3	21.7	48	0.8	2	0	33	1	0.015
17.1	13.5	30.6	17.4	48	0.8	3	0	33	1	0.015
20.1	13.6	33.7	14.3	48	0.8	4	0	33	1	0.015
16.1	17.8	33.9	62.1	96	0.8	0	0	33	2	0.015
22	25.9	47.9	48.1	96	0.8	1	0	33	2	0.015
26.9	33.1	60	36	96	0.8	2	0	33	2	0.015
31.4	33.5	64.9	31.1	96	0.8	3	0	33	2	0.015
33.9	33.8	67.7	28.3	96	0.8	4	0	33	2	0.015
3.1	5.3	8.4	27.6	36	1.2	0	0	45	0.5	0.015
7.2	8.9	16.1	19.9	36	1.2	1	0	45	0.5	0.015
10.4	11.3	21.7	14.3	36	1.2	2	0	45	0.5	0.015
12	11.5	23.5	12.5	36	1.2	3	0	45	0.5	0.015
13.1	11.5	24.6	11.4	36	1.2	4	0	45	0.5	0.015
7.2	11.3	18.5	53.5	72	1.2	0	0	45	1	0.015
13.9	21.8	35.7	36.3	72	1.2	1	0	45	1	0.015
19.1	29.7	48.8	23.2	72	1.2	2	0	45	1	0.015
23.8	30	53.8	18.2	72	1.2	3	0	45	1	0.015
25.1	30.2	55.3	16.7	72	1.2	4	0	45	1	0.015
12.7	37.7	50.4	93.6	144	1.2	0	0	45	2	0.015
17.4	56.4	73.8	70.2	144	1.2	1	0	45	2	0.015
22.3	65.8	88.1	55.9	144	1.2	2	0	45	2	0.015
25.9	78.4	104.3	39.7	144	1.2	3	0	45	2	0.015
29.1	80	109.1	34.9	144	1.2	4	0	45	2	0.015
3.9	16.9	20.8	63.2	84	2.8	0	0	100	0.5	0.015
8.8	28.6	37.4	46.6	84	2.8	1	0	100	0.5	0.015
13.2	39.1	52.3	31.7	84	2.8	2	0	100	0.5	0.015
17.1	46.3	63.4	20.6	84	2.8	3	0	100	0.5	0.015
20	48.1	68.1	15.9	84	2.8	4	0	100	0.5	0.015

6.1	40.9	47	121	168	2.8	0	0	100	1	0.015
11.7	67.4	79.1	88.9	168	2.8	1	0	100	1	0.015
17.3	95.1	112.4	55.6	168	2.8	2	0	100	1	0.015
21	121.6	142.6	25.4	168	2.8	3	0	100	1	0.015
24.4	123.1	147.5	20.5	168	2.8	4	0	100	1	0.015
2.8	3.2	6	18	24	0.8	0	3	33	0.5	0.015
8.4	3.6	12	12	24	0.8	1	3	33	0.5	0.015
14.1	3.7	17.8	6.2	24	0.8	2	3	33	0.5	0.015
16.2	3.8	20	4	24	0.8	3	3	33	0.5	0.015
17.3	4	21.3	2.7	24	0.8	4	3	33	0.5	0.015
6.6	7.1	13.7	34.3	48	0.8	0	3	33	1	0.015
13	13.3	26.3	21.7	48	0.8	1	3	33	1	0.015
17.7	14.6	32.3	15.7	48	0.8	2	3	33	1	0.015
21.9	14.7	36.6	11.4	48	0.8	3	3	33	1	0.015
24.5	14.7	39.2	8.8	48	0.8	4	3	33	1	0.015
18.6	19.9	38.5	57.5	96	0.8	0	3	33	2	0.015
26.1	28.1	54.2	41.8	96	0.8	1	3	33	2	0.015
31.8	36	67.8	28.2	96	0.8	2	3	33	2	0.015
36.5	36.3	72.8	23.2	96	0.8	3	3	33	2	0.015
41.9	36.5	78.4	17.6	96	0.8	4	3	33	2	0.015
4.1	5.9	10	26	36	1.2	0	3	45	0.5	0.015
10.9	11	21.9	14.1	36	1.2	1	3	45	0.5	0.015
14.1	13.7	27.8	8.2	36	1.2	2	3	45	0.5	0.015
14.9	14	28.9	7.1	36	1.2	3	3	45	0.5	0.015
15.5	14.1	29.6	6.4	36	1.2	4	3	45	0.5	0.015
7.2	12.4	19.6	52.4	72	1.2	0	3	45	1	0.015
13.9	23.9	37.8	34.2	72	1.2	1	3	45	1	0.015
18.5	32.7	51.2	20.8	72	1.2	2	3	45	1	0.015
22.6	32.9	55.5	16.5	72	1.2	3	3	45	1	0.015
25.1	33	58.1	13.9	72	1.2	4	3	45	1	0.015
12.3	41.9	54.2	89.8	144	1.2	0	3	45	2	0.015
18.4	59.7	78.1	65.9	144	1.2	1	3	45	2	0.015
24.1	78.1	102.2	41.8	144	1.2	2	3	45	2	0.015
29.6	91.1	120.7	23.3	144	1.2	3	3	45	2	0.015
33.7	91.6	125.3	18.7	144	1.2	4	3	45	2	0.015
4	20.6	24.6	59.4	84	2.8	0	3	100	0.5	0.015
9.9	36.5	46.4	37.6	84	2.8	1	3	100	0.5	0.015
15.1	51.1	66.2	17.8	84	2.8	2	3	100	0.5	0.015
19.7	53.2	72.9	11.1	84	2.8	3	3	100	0.5	0.015
23.1	54.8	77.9	6.1	84	2.8	4	3	100	0.5	0.015
7.3	69.4	76.7	91.3	168	2.8	0	3	100	1	0.015
13.8	95.7	109.5	58.5	168	2.8	1	3	100	1	0.015
20	121.2	141.2	26.8	168	2.8	2	3	100	1	0.015
24.9	125.1	150	18	168	2.8	3	3	100	1	0.015
28.4	126	154.4	13.6	168	2.8	4	3	100	1	0.015
3.5	3.1	6.6	17.4	24	0.8	0	5	33	0.5	0.015
10.1	3.1	13.2	10.8	24	0.8	1	5	33	0.5	0.015
15.8	3.2	19	5	24	0.8	2	5	33	0.5	0.015

17.1	3.2	20.3	3.7	24	0.8	3	5	33	0.5	0.015
17.6	3.2	20.8	3.2	24	0.8	4	5	33	0.5	0.015
7.7	7.3	15	33	48	0.8	0	5	33	1	0.015
14.8	14.1	28.9	19.1	48	0.8	1	5	33	1	0.015
20.2	14.7	34.9	13.1	48	0.8	2	5	33	1	0.015
24.6	14.8	39.4	8.6	48	0.8	3	5	33	1	0.015
27.2	14.9	42.1	5.9	48	0.8	4	5	33	1	0.015
20.1	21.9	42	54	96	0.8	0	5	33	2	0.015
28.2	29.8	58	38	96	0.8	1	5	33	2	0.015
35.8	34.7	70.5	25.5	96	0.8	2	5	33	2	0.015
41.5	35	76.5	19.5	96	0.8	3	5	33	2	0.015
44.9	35.2	80.1	15.9	96	0.8	4	5	33	2	0.015
4.9	6.8	11.7	24.3	36	1.2	0	5	45	0.5	0.015
10.9	14.7	25.6	10.4	36	1.2	1	5	45	0.5	0.015
13.9	15	28.9	7.1	36	1.2	2	5	45	0.5	0.015
15	15.2	30.2	5.8	36	1.2	3	5	45	0.5	0.015
15.7	15.4	31.1	4.9	36	1.2	4	5	45	0.5	0.015
8	15.9	23.9	48.1	72	1.2	0	5	45	1	0.015
15.7	28.9	44.6	27.4	72	1.2	1	5	45	1	0.015
22.3	35.7	58	14	72	1.2	2	5	45	1	0.015
28.1	36	64.1	7.9	72	1.2	3	5	45	1	0.015
33.4	36.2	69.6	2.4	72	1.2	4	5	45	1	0.015
17	59.6	76.6	67.4	144	1.2	0	5	45	2	0.015
24.1	86.3	110.4	33.6	144	1.2	1	5	45	2	0.015
32	94.7	126.7	17.3	144	1.2	2	5	45	2	0.015
35.3	96	131.3	12.7	144	1.2	3	5	45	2	0.015
37.9	96.6	134.5	9.5	144	1.2	4	5	45	2	0.015
4.6	20.8	25.4	58.6	84	2.8	0	5	100	0.5	0.015
12	37.1	49.1	34.9	84	2.8	1	5	100	0.5	0.015
18.5	53.1	71.6	12.4	84	2.8	2	5	100	0.5	0.015
22.9	53.3	76.2	7.8	84	2.8	3	5	100	0.5	0.015
26.4	53.5	79.9	4.1	84	2.8	4	5	100	0.5	0.015
8.4	71.2	79.6	88.4	168	2.8	0	5	100	1	0.015
15.1	99.3	114.4	53.6	168	2.8	1	5	100	1	0.015
21.7	120.5	142.2	25.8	168	2.8	2	5	100	1	0.015
25.1	121.1	146.2	21.8	168	2.8	3	5	100	1	0.015
28.9	121.3	150.2	17.8	168	2.8	4	5	100	1	0.015
1.7	3.1	4.8	19.2	24	0.8	0	0	33	0.5	0.026
5.3	6.4	11.7	12.3	24	0.8	1	0	33	0.5	0.026
8.7	6.8	15.5	8.5	24	0.8	2	0	33	0.5	0.026
10.1	6.9	17	7	24	0.8	3	0	33	0.5	0.026
11.3	7	18.3	5.7	24	0.8	4	0	33	0.5	0.026
5.2	7.4	12.6	35.4	48	0.8	0	0	33	1	0.026
9.6	11.6	21.2	26.8	48	0.8	1	0	33	1	0.026
13.7	13.9	27.6	20.4	48	0.8	2	0	33	1	0.026
17.9	14.6	32.5	15.5	48	0.8	3	0	33	1	0.026
20.9	15.1	36	12	48	0.8	4	0	33	1	0.026
15.9	19.1	35	61	96	0.8	0	0	33	2	0.026

21.9	25.6	47.5	48.5	96	0.8	1	0	33	2	0.026
27.1	31.3	58.4	37.6	96	0.8	2	0	33	2	0.026
31	33.2	64.2	31.8	96	0.8	3	0	33	2	0.026
34.6	33.5	68.1	27.9	96	0.8	4	0	33	2	0.026
3.1	5.3	8.4	27.6	36	1.2	0	0	45	0.5	0.026
7.2	8.8	16	20	36	1.2	1	0	45	0.5	0.026
10.5	10.3	20.8	15.2	36	1.2	2	0	45	0.5	0.026
12.3	11.5	23.8	12.2	36	1.2	3	0	45	0.5	0.026
13.4	11.6	25	11	36	1.2	4	0	45	0.5	0.026
6.9	10.9	17.8	54.2	72	1.2	0	0	45	1	0.026
12.8	18.9	31.7	40.3	72	1.2	1	0	45	1	0.026
17.2	26.5	43.7	28.3	72	1.2	2	0	45	1	0.026
21.3	29.1	50.4	21.6	72	1.2	3	0	45	1	0.026
23.4	29.4	52.8	19.2	72	1.2	4	0	45	1	0.026
11.8	39.5	51.3	92.7	144	1.2	0	0	45	2	0.026
16.1	53.7	69.8	74.2	144	1.2	1	0	45	2	0.026
20.8	66.6	87.4	56.6	144	1.2	2	0	45	2	0.026
24.9	78.4	103.3	40.7	144	1.2	3	0	45	2	0.026
28.8	79.8	108.6	35.4	144	1.2	4	0	45	2	0.026
4	16.5	20.5	63.5	84	2.8	0	0	100	0.5	0.026
8.9	28.7	37.6	46.4	84	2.8	1	0	100	0.5	0.026
13.3	38.6	51.9	32.1	84	2.8	2	0	100	0.5	0.026
16.5	46.9	63.4	20.6	84	2.8	3	0	100	0.5	0.026
18.9	47.7	66.6	17.4	84	2.8	4	0	100	0.5	0.026
2.5	2.9	5.4	18.6	24	0.8	0	3	33	0.5	0.026
8	3.5	11.5	12.5	24	0.8	1	3	33	0.5	0.026
12.4	3.7	16.1	7.9	24	0.8	2	3	33	0.5	0.026
14.8	3.7	18.5	5.5	24	0.8	3	3	33	0.5	0.026
15.6	3.8	19.4	4.6	24	0.8	4	3	33	0.5	0.026
6.6	7	13.6	34.4	48	0.8	0	3	33	1	0.026
12.8	12.3	25.1	22.9	48	0.8	1	3	33	1	0.026
17.8	14.8	32.6	15.4	48	0.8	2	3	33	1	0.026
22	14.8	36.8	11.2	48	0.8	3	3	33	1	0.026
24.1	14.9	39	9	48	0.8	4	3	33	1	0.026
18.5	22	40.5	55.5	96	0.8	0	3	33	2	0.026
25.8	28.7	54.5	41.5	96	0.8	1	3	33	2	0.026
30.7	33.9	64.6	31.4	96	0.8	2	3	33	2	0.026
35.3	35.1	70.4	25.6	96	0.8	3	3	33	2	0.026
38.4	35.3	73.7	22.3	96	0.8	4	3	33	2	0.026
4.3	6	10.3	25.7	36	1.2	0	3	45	0.5	0.026
10.1	11.3	21.4	14.6	36	1.2	1	3	45	0.5	0.026
13.5	13.9	27.4	8.6	36	1.2	2	3	45	0.5	0.026
14.6	14.2	28.8	7.2	36	1.2	3	3	45	0.5	0.026
15.1	14.5	29.6	6.4	36	1.2	4	3	45	0.5	0.026
7.4	12.5	19.9	52.1	72	1.2	0	3	45	1	0.026
13.9	23.7	37.6	34.4	72	1.2	1	3	45	1	0.026
19.5	31.4	50.9	21.1	72	1.2	2	3	45	1	0.026
23.6	32	55.6	16.4	72	1.2	3	3	45	1	0.026

25.4	32.5	57.9	14.1	72	1.2	4	3	45	1	0.026
12.8	43.7	56.5	87.5	144	1.2	0	3	45	2	0.026
20	66.9	86.9	57.1	144	1.2	1	3	45	2	0.026
25.9	88.1	114	30	144	1.2	2	3	45	2	0.026
31.2	90	121.2	22.8	144	1.2	3	3	45	2	0.026
34.7	90.5	125.2	18.8	144	1.2	4	3	45	2	0.026
3.9	20.1	24	60	84	2.8	0	3	100	0.5	0.026
9.8	36.2	46	38	84	2.8	1	3	100	0.5	0.026
15.5	47.9	63.4	20.6	84	2.8	2	3	100	0.5	0.026
19.7	52.4	72.1	11.9	84	2.8	3	3	100	0.5	0.026
22.9	53	75.9	8.1	84	2.8	4	3	100	0.5	0.026
3.7	2.8	6.5	17.5	24	0.8	0	5	33	0.5	0.026
9.8	3.1	12.9	11.1	24	0.8	1	5	33	0.5	0.026
14.7	3.2	17.9	6.1	24	0.8	2	5	33	0.5	0.026
16.5	3.3	19.8	4.2	24	0.8	3	5	33	0.5	0.026
17.6	3.3	20.9	3.1	24	0.8	4	5	33	0.5	0.026
7.5	7.1	14.6	33.4	48	0.8	0	5	33	1	0.026
14.1	12.9	27	21	48	0.8	1	5	33	1	0.026
19.9	13.8	33.7	14.3	48	0.8	2	5	33	1	0.026
24	14	38	10	48	0.8	3	5	33	1	0.026
26.9	14.1	41	7	48	0.8	4	5	33	1	0.026
18.9	22.4	41.3	54.7	96	0.8	0	5	33	2	0.026
27.2	31.6	58.8	37.2	96	0.8	1	5	33	2	0.026
35.5	35.2	70.7	25.3	96	0.8	2	5	33	2	0.026
40.8	35.5	76.3	19.7	96	0.8	3	5	33	2	0.026
44.6	36	80.6	15.4	96	0.8	4	5	33	2	0.026
4.8	7	11.8	24.2	36	1.2	0	5	45	0.5	0.026
11	14.7	25.7	10.3	36	1.2	1	5	45	0.5	0.026
13.9	15	28.9	7.1	36	1.2	2	5	45	0.5	0.026
14.8	15.2	30	6	36	1.2	3	5	45	0.5	0.026
15.4	15.2	30.6	5.4	36	1.2	4	5	45	0.5	0.026
8.3	15.7	24	48	72	1.2	0	5	45	1	0.026
16.1	28.6	44.7	27.3	72	1.2	1	5	45	1	0.026
23	35.4	58.4	13.6	72	1.2	2	5	45	1	0.026
29.4	35.5	64.9	7.1	72	1.2	3	5	45	1	0.026
33.5	35.7	69.2	2.8	72	1.2	4	5	45	1	0.026
17.4	60	77.4	66.6	144	1.2	0	5	45	2	0.026
25	86.4	111.4	32.6	144	1.2	1	5	45	2	0.026
31.8	97.6	129.4	14.6	144	1.2	2	5	45	2	0.026
36.8	98.5	135.3	8.7	144	1.2	3	5	45	2	0.026
38.7	99.1	137.8	6.2	144	1.2	4	5	45	2	0.026
5.1	20.3	25.4	58.6	84	2.8	0	5	100	0.5	0.026
12.2	36.6	48.8	35.2	84	2.8	1	5	100	0.5	0.026
18.9	52.9	71.8	12.2	84	2.8	2	5	100	0.5	0.026
23.8	53.4	77.2	6.8	84	2.8	3	5	100	0.5	0.026
27.2	53.6	80.8	3.2	84	2.8	4	5	100	0.5	0.026
1.5	3	4.5	19.5	24	0.8	0	0	33	0.5	0.008
5.1	6.3	11.4	12.6	24	0.8	1	0	33	0.5	0.008

8.2	6.8	15	9	24	0.8	2	0	33	0.5	0.008
10.7	6.9	17.6	6.4	24	0.8	3	0	33	0.5	0.008
11.4	7	18.4	5.6	24	0.8	4	0	33	0.5	0.008
5.5	6.9	12.4	35.6	48	0.8	0	0	33	1	0.008
9.4	10.8	20.2	27.8	48	0.8	1	0	33	1	0.008
13.1	13.2	26.3	21.7	48	0.8	2	0	33	1	0.008
16.8	13.8	30.6	17.4	48	0.8	3	0	33	1	0.008
19.9	14	33.9	14.1	48	0.8	4	0	33	1	0.008
16.2	16.9	33.1	62.9	96	0.8	0	0	33	2	0.008
21.7	23.5	45.2	50.8	96	0.8	1	0	33	2	0.008
26.5	28.1	54.6	41.4	96	0.8	2	0	33	2	0.008
30.3	31.4	61.7	34.3	96	0.8	3	0	33	2	0.008
33.8	32.5	66.3	29.7	96	0.8	4	0	33	2	0.008
3.2	5.2	8.4	27.6	36	1.2	0	0	45	0.5	0.008
7.4	8.6	16	20	36	1.2	1	0	45	0.5	0.008
10.5	10.4	20.9	15.1	36	1.2	2	0	45	0.5	0.008
11.9	11	22.9	13.1	36	1.2	3	0	45	0.5	0.008
13.2	11.1	24.3	11.7	36	1.2	4	0	45	0.5	0.008
7.4	11	18.4	53.6	72	1.2	0	0	45	1	0.008
13.5	19.5	33	39	72	1.2	1	0	45	1	0.008
19	25.3	44.3	27.7	72	1.2	2	0	45	1	0.008
23.8	28.9	52.7	19.3	72	1.2	3	0	45	1	0.008
25.2	29.3	54.5	17.5	72	1.2	4	0	45	1	0.008
12.5	38	50.5	93.5	144	1.2	0	0	45	2	0.008
17.1	52.9	70	74	144	1.2	1	0	45	2	0.008
21.9	63.7	85.6	58.4	144	1.2	2	0	45	2	0.008
25.2	75.1	100.3	43.7	144	1.2	3	0	45	2	0.008
28.1	78.6	106.7	37.3	144	1.2	4	0	45	2	0.008
4.1	16.4	20.5	63.5	84	2.8	0	0	100	0.5	0.008
9	27.3	36.3	47.7	84	2.8	1	0	100	0.5	0.008
13.4	36.5	49.9	34.1	84	2.8	2	0	100	0.5	0.008
17.3	44.9	62.2	21.8	84	2.8	3	0	100	0.5	0.008
19.9	46	65.9	18.1	84	2.8	4	0	100	0.5	0.008
2.7	3	5.7	18.3	24	0.8	0	3	33	0.5	0.008
7.9	3.4	11.3	12.7	24	0.8	1	3	33	0.5	0.008
12.9	3.6	16.5	7.5	24	0.8	2	3	33	0.5	0.008
14.6	3.7	18.3	5.7	24	0.8	3	3	33	0.5	0.008
15.9	3.7	19.6	4.4	24	0.8	4	3	33	0.5	0.008
6.8	6.6	13.4	34.6	48	0.8	0	3	33	1	0.008
12.9	12.1	25	23	48	0.8	1	3	33	1	0.008
17.5	13.9	31.4	16.6	48	0.8	2	3	33	1	0.008
21.6	14	35.6	12.4	48	0.8	3	3	33	1	0.008
24.1	14.2	38.3	9.7	48	0.8	4	3	33	1	0.008
19.6	20.3	39.9	56.1	96	0.8	0	3	33	2	0.008
27.7	27.5	55.2	40.8	96	0.8	1	3	33	2	0.008
35	33.6	68.6	27.4	96	0.8	2	3	33	2	0.008
40.4	33.8	74.2	21.8	96	0.8	3	3	33	2	0.008
43.9	34	77.9	18.1	96	0.8	4	3	33	2	0.008

3.9	5.7	9.6	26.4	36	1.2	0	3	45	0.5	0.008
10.5	10.8	21.3	14.7	36	1.2	1	3	45	0.5	0.008
13.8	13.5	27.3	8.7	36	1.2	2	3	45	0.5	0.008
14.7	13.7	28.4	7.6	36	1.2	3	3	45	0.5	0.008
15.3	13.9	29.2	6.8	36	1.2	4	3	45	0.5	0.008
7.1	12	19.1	52.9	72	1.2	0	3	45	1	0.008
13.7	21.9	35.6	36.4	72	1.2	1	3	45	1	0.008
18	29.8	47.8	24.2	72	1.2	2	3	45	1	0.008
21.9	30.9	52.8	19.2	72	1.2	3	3	45	1	0.008
24.8	31.4	56.2	15.8	72	1.2	4	3	45	1	0.008
12.5	40.7	53.2	90.8	144	1.2	0	3	45	2	0.008
19.1	60.6	79.7	64.3	144	1.2	1	3	45	2	0.008
24.9	79.8	104.7	39.3	144	1.2	2	3	45	2	0.008
28.9	90.1	119	25	144	1.2	3	3	45	2	0.008
32.7	90.8	123.5	20.5	144	1.2	4	3	45	2	0.008
4.2	19.8	24	60	84	2.8	0	3	100	0.5	0.008
10	35.1	45.1	38.9	84	2.8	1	3	100	0.5	0.008
15.6	49.6	65.2	18.8	84	2.8	2	3	100	0.5	0.008
19.9	51	70.9	13.1	84	2.8	3	3	100	0.5	0.008
23.4	51.4	74.8	9.2	84	2.8	4	3	100	0.5	0.008
3.4	2.6	6	18	24	0.8	0	5	33	0.5	0.008
9.5	2.8	12.3	11.7	24	0.8	1	5	33	0.5	0.008
14.9	2.9	17.8	6.2	24	0.8	2	5	33	0.5	0.008
16.8	3	19.8	4.2	24	0.8	3	5	33	0.5	0.008
17.5	3	20.5	3.5	24	0.8	4	5	33	0.5	0.008
7.3	6.9	14.2	33.8	48	0.8	0	5	33	1	0.008
13.9	12.1	26	22	48	0.8	1	5	33	1	0.008
19.8	13.5	33.3	14.7	48	0.8	2	5	33	1	0.008
24.1	13.6	37.7	10.3	48	0.8	3	5	33	1	0.008
27.3	13.8	41.1	6.9	48	0.8	4	5	33	1	0.008
19.5	20.7	40.2	55.8	96	0.8	0	5	33	2	0.008
28.3	28.6	56.9	39.1	96	0.8	1	5	33	2	0.008
35.2	33.9	69.1	26.9	96	0.8	2	5	33	2	0.008
40.8	34.2	75	21	96	0.8	3	5	33	2	0.008
44.7	34.6	79.3	16.7	96	0.8	4	5	33	2	0.008
5.2	6.5	11.7	24.3	36	1.2	0	5	45	0.5	0.008
11.1	13.7	24.8	11.2	36	1.2	1	5	45	0.5	0.008
14	14.7	28.7	7.3	36	1.2	2	5	45	0.5	0.008
15.1	15.2	30.3	5.7	36	1.2	3	5	45	0.5	0.008
15.8	15.2	31	5	36	1.2	4	5	45	0.5	0.008
8.5	15.3	23.8	48.2	72	1.2	0	5	45	1	0.008
15.9	27.6	43.5	28.5	72	1.2	1	5	45	1	0.008
22.1	33.9	56	16	72	1.2	2	5	45	1	0.008
27.6	34.1	61.7	10.3	72	1.2	3	5	45	1	0.008
33.1	34.4	67.5	4.5	72	1.2	4	5	45	1	0.008
16.9	57.4	74.3	69.7	144	1.2	0	5	45	2	0.008
25.2	83.1	108.3	35.7	144	1.2	1	5	45	2	0.008
32.3	93.6	125.9	18.1	144	1.2	2	5	45	2	0.008

36.1	95	131.1	12.9	144	1.2	3	5	45	2	0.008
38.4	95.5	133.9	10.1	144	1.2	4	5	45	2	0.008
4.8	19.5	24.3	59.7	84	2.8	0	5	100	0.5	0.008
11.6	35.4	47	37	84	2.8	1	5	100	0.5	0.008
17.9	50.7	68.6	15.4	84	2.8	2	5	100	0.5	0.008
23.6	51.2	74.8	9.2	84	2.8	3	5	100	0.5	0.008
27	51.4	78.4	5.6	84	2.8	4	5	100	0.5	0.008
0.6	2.3	2.9	21.1	24	0.8	0	0	33	0.5	0.019
4.3	5.1	9.4	14.6	24	0.8	1	0	33	0.5	0.019
7.1	5.4	12.5	11.5	24	0.8	2	0	33	0.5	0.019
10	5.9	15.9	8.1	24	0.8	3	0	33	0.5	0.019
11.1	6.2	17.3	6.7	24	0.8	4	0	33	0.5	0.019
4.9	6.8	11.7	36.3	48	0.8	0	0	33	1	0.019
9.8	11.3	21.1	26.9	48	0.8	1	0	33	1	0.019
13.8	13.2	27	21	48	0.8	2	0	33	1	0.019
17.4	14.1	31.5	16.5	48	0.8	3	0	33	1	0.019
20.6	14.3	34.9	13.1	48	0.8	4	0	33	1	0.019
15.8	19	34.8	61.2	96	0.8	0	0	33	2	0.019
21.7	25.3	47	49	96	0.8	1	0	33	2	0.019
26.9	31.2	58.1	37.9	96	0.8	2	0	33	2	0.019
30.8	33	63.8	32.2	96	0.8	3	0	33	2	0.019
34.7	33.4	68.1	27.9	96	0.8	4	0	33	2	0.019
2.8	4.8	7.6	28.4	36	1.2	0	0	45	0.5	0.019
6.9	8.1	15	21	36	1.2	1	0	45	0.5	0.019
10.3	10.6	20.9	15.1	36	1.2	2	0	45	0.5	0.019
12	10.8	22.8	13.2	36	1.2	3	0	45	0.5	0.019
13.3	11	24.3	11.7	36	1.2	4	0	45	0.5	0.019
6.6	10.4	17	55	72	1.2	0	0	45	1	0.019
12.5	18.3	30.8	41.2	72	1.2	1	0	45	1	0.019
17.1	25.9	43	29	72	1.2	2	0	45	1	0.019
21	28.4	49.4	22.6	72	1.2	3	0	45	1	0.019
23.2	29	52.2	19.8	72	1.2	4	0	45	1	0.019
12	39	51	93	144	1.2	0	0	45	2	0.019
16.7	52.9	69.6	74.4	144	1.2	1	0	45	2	0.019
21.2	65.2	86.4	57.6	144	1.2	2	0	45	2	0.019
25.1	75.1	100.2	43.8	144	1.2	3	0	45	2	0.019
28.5	76	104.5	39.5	144	1.2	4	0	45	2	0.019
1.8	1.8	3.6	20.4	24	0.8	0	3	33	0.5	0.019
6.9	3.1	10	14	24	0.8	1	3	33	0.5	0.019
12.1	3.3	15.4	8.6	24	0.8	2	3	33	0.5	0.019
14.3	3.4	17.7	6.3	24	0.8	3	3	33	0.5	0.019
15.4	3.5	18.9	5.1	24	0.8	4	3	33	0.5	0.019
5.1	6.8	11.9	36.1	48	0.8	0	3	33	1	0.019
11.3	11.9	23.2	24.8	48	0.8	1	3	33	1	0.019
16.4	14.5	30.9	17.1	48	0.8	2	3	33	1	0.019
21.2	14.7	35.9	12.1	48	0.8	3	3	33	1	0.019
23.9	14.8	38.7	9.3	48	0.8	4	3	33	1	0.019
19	21.9	40.9	55.1	96	0.8	0	3	33	2	0.019

26.8	28.6	55.4	40.6	96	0.8	1	3	33	2	0.019
34.6	31.7	66.3	29.7	96	0.8	2	3	33	2	0.019
39.1	34.9	74	22	96	0.8	3	3	33	2	0.019
42.7	35.1	77.8	18.2	96	0.8	4	3	33	2	0.019
4	5.3	9.3	26.7	36	1.2	0	3	45	0.5	0.019
9.5	10.2	19.7	16.3	36	1.2	1	3	45	0.5	0.019
13.3	13.6	26.9	9.1	36	1.2	2	3	45	0.5	0.019
14.5	14	28.5	7.5	36	1.2	3	3	45	0.5	0.019
15	14.2	29.2	6.8	36	1.2	4	3	45	0.5	0.019
7.1	12.1	19.2	52.8	72	1.2	0	3	45	1	0.019
13.8	22.6	36.4	35.6	72	1.2	1	3	45	1	0.019
19.1	29.2	48.3	23.7	72	1.2	2	3	45	1	0.019
23.5	31	54.5	17.5	72	1.2	3	3	45	1	0.019
25.6	31.3	56.9	15.1	72	1.2	4	3	45	1	0.019
12.4	44.2	56.6	87.4	144	1.2	0	3	45	2	0.019
19.8	65.1	84.9	59.1	144	1.2	1	3	45	2	0.019
26.1	87.3	113.4	30.6	144	1.2	2	3	45	2	0.019
30.2	90.1	120.3	23.7	144	1.2	3	3	45	2	0.019
33.9	90.6	124.5	19.5	144	1.2	4	3	45	2	0.019
2.3	2.2	4.5	19.5	24	0.8	0	5	33	0.5	0.019
8.6	2.6	11.2	12.8	24	0.8	1	5	33	0.5	0.019
14.1	2.8	16.9	7.1	24	0.8	2	5	33	0.5	0.019
16.3	2.9	19.2	4.8	24	0.8	3	5	33	0.5	0.019
17.7	3	20.7	3.3	24	0.8	4	5	33	0.5	0.019
6.8	6.5	13.3	34.7	48	0.8	0	5	33	1	0.019
13.9	11.3	25.2	22.8	48	0.8	1	5	33	1	0.019
19.7	11.6	31.3	16.7	48	0.8	2	5	33	1	0.019
23.8	11.9	35.7	12.3	48	0.8	3	5	33	1	0.019
26.7	12.2	38.9	9.1	48	0.8	4	5	33	1	0.019
20	22	42	54	96	0.8	0	5	33	2	0.019
27.1	30.9	58	38	96	0.8	1	5	33	2	0.019
33.2	35	68.2	27.8	96	0.8	2	5	33	2	0.019
38.9	35.3	74.2	21.8	96	0.8	3	5	33	2	0.019
43.2	35.6	78.8	17.2	96	0.8	4	5	33	2	0.019
4.4	6.9	11.3	24.7	36	1.2	0	5	45	0.5	0.019
10.6	14.5	25.1	10.9	36	1.2	1	5	45	0.5	0.019
13.5	15.4	28.9	7.1	36	1.2	2	5	45	0.5	0.019
14.6	15.5	30.1	5.9	36	1.2	3	5	45	0.5	0.019
15.3	15.6	30.9	5.1	36	1.2	4	5	45	0.5	0.019
7.8	15.1	22.9	49.1	72	1.2	0	5	45	1	0.019
15.9	28.1	44	28	72	1.2	1	5	45	1	0.019
22.2	33.9	56.1	15.9	72	1.2	2	5	45	1	0.019
28.3	34.4	62.7	9.3	72	1.2	3	5	45	1	0.019
32.9	34.6	67.5	4.5	72	1.2	4	5	45	1	0.019
17.3	59.3	76.6	67.4	144	1.2	0	5	45	2	0.019
25.1	86.5	111.6	32.4	144	1.2	1	5	45	2	0.019
31.6	98.6	130.2	13.8	144	1.2	2	5	45	2	0.019
37.2	100	137.2	6.8	144	1.2	3	5	45	2	0.019

39.5	100.3	139.8	4.2	144	1.2	4	5	45	2	0.019
0.4	1.9	2.3	21.7	24	0.8	0	0	33	0.5	0.004
3.8	4.7	8.5	15.5	24	0.8	1	0	33	0.5	0.004
6.7	5.1	11.8	12.2	24	0.8	2	0	33	0.5	0.004
8.8	5.4	14.2	9.8	24	0.8	3	0	33	0.5	0.004
10.7	5.7	16.4	7.6	24	0.8	4	0	33	0.5	0.004
4.7	6.1	10.8	37.2	48	0.8	0	0	33	1	0.004
9.3	10.3	19.6	28.4	48	0.8	1	0	33	1	0.004
13	12.9	25.9	22.1	48	0.8	2	0	33	1	0.004
16.5	13.7	30.2	17.8	48	0.8	3	0	33	1	0.004
19.8	14.1	33.9	14.1	48	0.8	4	0	33	1	0.004
15.9	16.7	32.6	63.4	96	0.8	0	0	33	2	0.004
22	23.4	45.4	50.6	96	0.8	1	0	33	2	0.004
27.1	28	55.1	40.9	96	0.8	2	0	33	2	0.004
30.8	31.5	62.3	33.7	96	0.8	3	0	33	2	0.004
33.6	32.4	66	30	96	0.8	4	0	33	2	0.004
2.6	4.4	7	29	36	1.2	0	0	45	0.5	0.004
7	7.6	14.6	21.4	36	1.2	1	0	45	0.5	0.004
10.4	9.8	20.2	15.8	36	1.2	2	0	45	0.5	0.004
12.2	10.7	22.9	13.1	36	1.2	3	0	45	0.5	0.004
13.1	10.9	24	12	36	1.2	4	0	45	0.5	0.004
6.1	11	17.1	54.9	72	1.2	0	0	45	1	0.004
11.8	19.3	31.1	40.9	72	1.2	1	0	45	1	0.004
16.8	25.6	42.4	29.6	72	1.2	2	0	45	1	0.004
21.2	28.5	49.7	22.3	72	1.2	3	0	45	1	0.004
24.8	29	53.8	18.2	72	1.2	4	0	45	1	0.004
11.5	38.3	49.8	94.2	144	1.2	0	0	45	2	0.004
16	53.1	69.1	74.9	144	1.2	1	0	45	2	0.004
20.7	63.9	84.6	59.4	144	1.2	2	0	45	2	0.004
24.4	73.7	98.1	45.9	144	1.2	3	0	45	2	0.004
28.6	75.2	103.8	40.2	144	1.2	4	0	45	2	0.004
1.3	1.1	2.4	21.6	24	0.8	0	3	33	0.5	0.004
6.9	2.9	9.8	14.2	24	0.8	1	3	33	0.5	0.004
11.4	3.1	14.5	9.5	24	0.8	2	3	33	0.5	0.004
13.9	3.3	17.2	6.8	24	0.8	3	3	33	0.5	0.004
15.8	3.3	19.1	4.9	24	0.8	4	3	33	0.5	0.004
4.6	6.1	10.7	37.3	48	0.8	0	3	33	1	0.004
10.8	11.8	22.6	25.4	48	0.8	1	3	33	1	0.004
15.3	13.3	28.6	19.4	48	0.8	2	3	33	1	0.004
19.4	13.6	33	15	48	0.8	3	3	33	1	0.004
22.6	13.6	36.2	11.8	48	0.8	4	3	33	1	0.004
18.1	19.5	37.6	58.4	96	0.8	0	3	33	2	0.004
25.5	25.9	51.4	44.6	96	0.8	1	3	33	2	0.004
30.3	31.3	61.6	34.4	96	0.8	2	3	33	2	0.004
35.1	33	68.1	27.9	96	0.8	3	3	33	2	0.004
38.2	33.2	71.4	24.6	96	0.8	4	3	33	2	0.004
4.1	4.2	8.3	27.7	36	1.2	0	3	45	0.5	0.004
10.2	9.9	20.1	15.9	36	1.2	1	3	45	0.5	0.004

13.5	11.8	25.3	10.7	36	1.2	2	3	45	0.5	0.004
14.6	12.4	27	9	36	1.2	3	3	45	0.5	0.004
15.2	12.7	27.9	8.1	36	1.2	4	3	45	0.5	0.004
6.9	11.1	18	54	72	1.2	0	3	45	1	0.004
13.5	19.7	33.2	38.8	72	1.2	1	3	45	1	0.004
18.1	25.7	43.8	28.2	72	1.2	2	3	45	1	0.004
22	29.5	51.5	20.5	72	1.2	3	3	45	1	0.004
25.1	29.8	54.9	17.1	72	1.2	4	3	45	1	0.004
12.9	41.4	54.3	89.7	144	1.2	0	3	45	2	0.004
20.3	61.2	81.5	62.5	144	1.2	1	3	45	2	0.004
26.1	78.6	104.7	39.3	144	1.2	2	3	45	2	0.004
29.6	89.9	119.5	24.5	144	1.2	3	3	45	2	0.004
32.5	90.3	122.8	21.2	144	1.2	4	3	45	2	0.004
1.8	1.9	3.7	20.3	24	0.8	0	5	33	0.5	0.004
8.5	2.5	11	13	24	0.8	1	5	33	0.5	0.004
14.2	2.7	16.9	7.1	24	0.8	2	5	33	0.5	0.004
16.1	2.8	18.9	5.1	24	0.8	3	5	33	0.5	0.004
17.6	2.8	20.4	3.6	24	0.8	4	5	33	0.5	0.004
6.5	6.1	12.6	35.4	48	0.8	0	5	33	1	0.004
12.6	11	23.6	24.4	48	0.8	1	5	33	1	0.004
19.1	11.3	30.4	17.6	48	0.8	2	5	33	1	0.004
23.4	11.6	35	13	48	0.8	3	5	33	1	0.004
26.8	11.9	38.7	9.3	48	0.8	4	5	33	1	0.004
20.1	20.6	40.7	55.3	96	0.8	0	5	33	2	0.004
26.8	28.5	55.3	40.7	96	0.8	1	5	33	2	0.004
32.9	33.4	66.3	29.7	96	0.8	2	5	33	2	0.004
38.2	34.1	72.3	23.7	96	0.8	3	5	33	2	0.004
43.4	34.8	78.2	17.8	96	0.8	4	5	33	2	0.004
3.9	6.1	10	26	36	1.2	0	5	45	0.5	0.004
10.3	14	24.3	11.7	36	1.2	1	5	45	0.5	0.004
13.2	14.4	27.6	8.4	36	1.2	2	5	45	0.5	0.004
14.5	14.8	29.3	6.7	36	1.2	3	5	45	0.5	0.004
15.6	14.9	30.5	5.5	36	1.2	4	5	45	0.5	0.004
7.6	14.4	22	50	72	1.2	0	5	45	1	0.004
15.5	26.1	41.6	30.4	72	1.2	1	5	45	1	0.004
21.8	33.9	55.7	16.3	72	1.2	2	5	45	1	0.004
26.9	34.3	61.2	10.8	72	1.2	3	5	45	1	0.004
31.7	34.5	66.2	5.8	72	1.2	4	5	45	1	0.004
17	57.9	74.9	69.1	144	1.2	0	5	45	2	0.004
25.4	81.3	106.7	37.3	144	1.2	1	5	45	2	0.004
33.1	92.4	125.5	18.5	144	1.2	2	5	45	2	0.004
37	92.6	129.6	14.4	144	1.2	3	5	45	2	0.004
38.8	92.9	131.7	12.3	144	1.2	4	5	45	2	0.004

Appendix II

			x1	x2	x3	x4	x5	x6
y			Distance from centreline	Time	Slope	Rainfall intensity	Rainfall duration	Ballast permeability
Water level (m)	Lag time (min)	Time from previous test (Day)	d (m)	t (h)	i	q (mm/hr)	D (h)	Kb (m/s)
0.15			0.4	0	0	33	0.5	0.32
0.15			0.7	0	0	33	0.5	0.32
0.15			1	0	0	33	0.5	0.32
0.15			1.3	0	0	33	0.5	0.32
0.14			1.6	0	0	33	0.5	0.32
0.13			1.9	0	0	33	0.5	0.32
0.14			0.4	0.5	0	33	0.5	0.32
0.14			0.7	0.5	0	33	0.5	0.32
0.14			1	0.5	0	33	0.5	0.32
0.13			1.3	0.5	0	33	0.5	0.32
0.13			1.6	0.5	0	33	0.5	0.32
0.12			1.9	0.5	0	33	0.5	0.32
0.12			0.4	1	0	33	0.5	0.32
0.12			0.7	1	0	33	0.5	0.32
0.12			1	1	0	33	0.5	0.32
0.12			1.3	1	0	33	0.5	0.32
0.12			1.6	1	0	33	0.5	0.32
0.11	16	3	1.9	1	0	33	0.5	0.32
0.09			0.4	2	0	33	0.5	0.32
0.09			0.7	2	0	33	0.5	0.32
0.09			1	2	0	33	0.5	0.32
0.08			1.3	2	0	33	0.5	0.32
0.08			1.6	2	0	33	0.5	0.32
0.05			1.9	2	0	33	0.5	0.32
0.07			0.4	3	0	33	0.5	0.32
0.07			0.7	3	0	33	0.5	0.32
0.07			1	3	0	33	0.5	0.32
0.07			1.3	3	0	33	0.5	0.32

0.07			1.6	3	0	33	0.5	0.32
0.04			1.9	3	0	33	0.5	0.32
0.05			0.4	4	0	33	0.5	0.32
0.04			0.7	4	0	33	0.5	0.32
0.04			1	4	0	33	0.5	0.32
0.04			1.3	4	0	33	0.5	0.32
0.04			1.6	4	0	33	0.5	0.32
0.03			1.9	4	0	33	0.5	0.32
0.21			0.4	0	0	33	1	0.32
0.21			0.7	0	0	33	1	0.32
0.21			1	0	0	33	1	0.32
0.2			1.3	0	0	33	1	0.32
0.2			1.6	0	0	33	1	0.32
0.18			1.9	0	0	33	1	0.32
0.18			0.4	0.5	0	33	1	0.32
0.18			0.7	0.5	0	33	1	0.32
0.18			1	0.5	0	33	1	0.32
0.18			1.3	0.5	0	33	1	0.32
0.17			1.6	0.5	0	33	1	0.32
0.16			1.9	0.5	0	33	1	0.32
0.15			0.4	1	0	33	1	0.32
0.16			0.7	1	0	33	1	0.32
0.15			1	1	0	33	1	0.32
0.15			1.3	1	0	33	1	0.32
0.14			1.6	1	0	33	1	0.32
0.14			1.9	1	0	33	1	0.32
0.14	14	1	0.4	2	0	33	1	0.32
0.14			0.7	2	0	33	1	0.32
0.14			1	2	0	33	1	0.32
0.13			1.3	2	0	33	1	0.32
0.13			1.6	2	0	33	1	0.32
0.1			1.9	2	0	33	1	0.32
0.12			0.4	3	0	33	1	0.32
0.12			0.7	3	0	33	1	0.32
0.12			1	3	0	33	1	0.32
0.12			1.3	3	0	33	1	0.32
0.12			1.6	3	0	33	1	0.32
0.07			1.9	3	0	33	1	0.32
0.09			0.4	4	0	33	1	0.32
0.09			0.7	4	0	33	1	0.32
0.09			1	4	0	33	1	0.32
0.08			1.3	4	0	33	1	0.32
0.08			1.6	4	0	33	1	0.32
0.05			1.9	4	0	33	1	0.32
0.31			0.4	0	0	33	2	0.32
0.31			0.7	0	0	33	2	0.32

0.3			1	0	0	33	2	0.32
0.3			1.3	0	0	33	2	0.32
0.3			1.6	0	0	33	2	0.32
0.29			1.9	0	0	33	2	0.32
0.28			0.4	0.5	0	33	2	0.32
0.28			0.7	0.5	0	33	2	0.32
0.28			1	0.5	0	33	2	0.32
0.27			1.3	0.5	0	33	2	0.32
0.27			1.6	0.5	0	33	2	0.32
0.25			1.9	0.5	0	33	2	0.32
0.23			0.4	1	0	33	2	0.32
0.23			0.7	1	0	33	2	0.32
0.23			1	1	0	33	2	0.32
0.21			1.3	1	0	33	2	0.32
0.21			1.6	1	0	33	2	0.32
0.19			1.9	1	0	33	2	0.32
0.158	15	1	0.4	2	0	33	2	0.32
0.159			0.7	2	0	33	2	0.32
0.151			1	2	0	33	2	0.32
0.148			1.3	2	0	33	2	0.32
0.142			1.6	2	0	33	2	0.32
0.141			1.9	2	0	33	2	0.32
0.12			0.4	3	0	33	2	0.32
0.12			0.7	3	0	33	2	0.32
0.12			1	3	0	33	2	0.32
0.12			1.3	3	0	33	2	0.32
0.11			1.6	3	0	33	2	0.32
0.1			1.9	3	0	33	2	0.32
0.1			0.4	4	0	33	2	0.32
0.1			0.7	4	0	33	2	0.32
0.1			1	4	0	33	2	0.32
0.1			1.3	4	0	33	2	0.32
0.09			1.6	4	0	33	2	0.32
0.08			1.9	4	0	33	2	0.32
0.21			0.4	0	0	45	0.5	0.32
0.208			0.7	0	0	45	0.5	0.32
0.205			1	0	0	45	0.5	0.32
0.207			1.3	0	0	45	0.5	0.32
0.208			1.6	0	0	45	0.5	0.32
0.199			1.9	0	0	45	0.5	0.32
0.18			0.4	0.5	0	45	0.5	0.32
0.181			0.7	0.5	0	45	0.5	0.32
0.179			1	0.5	0	45	0.5	0.32
0.18			1.3	0.5	0	45	0.5	0.32
0.179			1.6	0.5	0	45	0.5	0.32
0.163			1.9	0.5	0	45	0.5	0.32
0.162			0.4	1	0	45	0.5	0.32

0.163			0.7	1	0	45	0.5	0.32
0.163			1	1	0	45	0.5	0.32
0.162			1.3	1	0	45	0.5	0.32
0.161			1.6	1	0	45	0.5	0.32
0.139			1.9	1	0	45	0.5	0.32
0.145	11	3	0.4	2	0	45	0.5	0.32
0.146			0.7	2	0	45	0.5	0.32
0.144			1	2	0	45	0.5	0.32
0.144			1.3	2	0	45	0.5	0.32
0.147			1.6	2	0	45	0.5	0.32
0.121			1.9	2	0	45	0.5	0.32
0.12			0.4	3	0	45	0.5	0.32
0.121			0.7	3	0	45	0.5	0.32
0.121			1	3	0	45	0.5	0.32
0.12			1.3	3	0	45	0.5	0.32
0.121			1.6	3	0	45	0.5	0.32
0.11			1.9	3	0	45	0.5	0.32
0.098			0.4	4	0	45	0.5	0.32
0.09			0.7	4	0	45	0.5	0.32
0.09			1	4	0	45	0.5	0.32
0.09			1.3	4	0	45	0.5	0.32
0.08			1.6	4	0	45	0.5	0.32
0.07			1.9	4	0	45	0.5	0.32
0.302			0.4	0	0	45	1	0.32
0.301			0.7	0	0	45	1	0.32
0.302			1	0	0	45	1	0.32
0.3			1.3	0	0	45	1	0.32
0.298			1.6	0	0	45	1	0.32
0.269			1.9	0	0	45	1	0.32
0.259			0.4	0.5	0	45	1	0.32
0.261			0.7	0.5	0	45	1	0.32
0.26			1	0.5	0	45	1	0.32
0.261			1.3	0.5	0	45	1	0.32
0.258			1.6	0.5	0	45	1	0.32
0.237			1.9	0.5	0	45	1	0.32
0.21			0.4	1	0	45	1	0.32
0.21			0.7	1	0	45	1	0.32
0.209			1	1	0	45	1	0.32
0.208			1.3	1	0	45	1	0.32
0.205			1.6	1	0	45	1	0.32
0.195			1.9	1	0	45	1	0.32
0.15	6	0	0.4	2	0	45	1	0.32
0.151			0.7	2	0	45	1	0.32
0.146			1	2	0	45	1	0.32
0.149			1.3	2	0	45	1	0.32
0.152			1.6	2	0	45	1	0.32
0.141			1.9	2	0	45	1	0.32

0.121			0.4	3	0	45	1	0.32
0.119			0.7	3	0	45	1	0.32
0.12			1	3	0	45	1	0.32
0.12			1.3	3	0	45	1	0.32
0.119			1.6	3	0	45	1	0.32
0.112			1.9	3	0	45	1	0.32
0.09			0.4	4	0	45	1	0.32
0.09			0.7	4	0	45	1	0.32
0.09			1	4	0	45	1	0.32
0.09			1.3	4	0	45	1	0.32
0.08			1.6	4	0	45	1	0.32
0.07			1.9	4	0	45	1	0.32
0.396			0.4	0	0	45	2	0.32
0.395			0.7	0	0	45	2	0.32
0.395			1	0	0	45	2	0.32
0.398			1.3	0	0	45	2	0.32
0.396			1.6	0	0	45	2	0.32
0.365			1.9	0	0	45	2	0.32
0.33			0.4	0.5	0	45	2	0.32
0.33			0.7	0.5	0	45	2	0.32
0.322			1	0.5	0	45	2	0.32
0.323			1.3	0.5	0	45	2	0.32
0.32			1.6	0.5	0	45	2	0.32
0.295			1.9	0.5	0	45	2	0.32
0.27			0.4	1	0	45	2	0.32
0.269			0.7	1	0	45	2	0.32
0.27			1	1	0	45	2	0.32
0.269			1.3	1	0	45	2	0.32
0.27			1.6	1	0	45	2	0.32
0.248	11	3	1.9	1	0	45	2	0.32
0.156			0.4	2	0	45	2	0.32
0.155			0.7	2	0	45	2	0.32
0.154			1	2	0	45	2	0.32
0.155			1.3	2	0	45	2	0.32
0.159			1.6	2	0	45	2	0.32
0.143			1.9	2	0	45	2	0.32
0.122			0.4	3	0	45	2	0.32
0.122			0.7	3	0	45	2	0.32
0.123			1	3	0	45	2	0.32
0.125			1.3	3	0	45	2	0.32
0.125			1.6	3	0	45	2	0.32
0.1			1.9	3	0	45	2	0.32
0.08			0.4	4	0	45	2	0.32
0.08			0.7	4	0	45	2	0.32
0.08			1	4	0	45	2	0.32
0.08			1.3	4	0	45	2	0.32
0.08			1.6	4	0	45	2	0.32
0.07			1.9	4	0	45	2	0.32

0.394		0.4	0	0	100	0.5	0.32
0.394		0.7	0	0	100	0.5	0.32
0.391		1	0	0	100	0.5	0.32
0.389		1.3	0	0	100	0.5	0.32
0.388		1.6	0	0	100	0.5	0.32
0.367		1.9	0	0	100	0.5	0.32
0.307		0.4	0.5	0	100	0.5	0.32
0.305		0.7	0.5	0	100	0.5	0.32
0.303		1	0.5	0	100	0.5	0.32
0.301		1.3	0.5	0	100	0.5	0.32
0.3		1.6	0.5	0	100	0.5	0.32
0.269		1.9	0.5	0	100	0.5	0.32
0.249		0.4	1	0	100	0.5	0.32
0.244		0.7	1	0	100	0.5	0.32
0.247		1	1	0	100	0.5	0.32
0.242		1.3	1	0	100	0.5	0.32
0.241		1.6	1	0	100	0.5	0.32
0.227	3 6	1.9	1	0	100	0.5	0.32
0.175		0.4	2	0	100	0.5	0.32
0.174		0.7	2	0	100	0.5	0.32
0.174		1	2	0	100	0.5	0.32
0.173		1.3	2	0	100	0.5	0.32
0.171		1.6	2	0	100	0.5	0.32
0.154		1.9	2	0	100	0.5	0.32
0.148		0.4	3	0	100	0.5	0.32
0.147		0.7	3	0	100	0.5	0.32
0.143		1	3	0	100	0.5	0.32
0.141		1.3	3	0	100	0.5	0.32
0.138		1.6	3	0	100	0.5	0.32
0.135		1.9	3	0	100	0.5	0.32
0.136		0.4	4	0	100	0.5	0.32
0.135		0.7	4	0	100	0.5	0.32
0.134		1	4	0	100	0.5	0.32
0.134		1.3	4	0	100	0.5	0.32
0.133		1.6	4	0	100	0.5	0.32
0.121		1.9	4	0	100	0.5	0.32
0.431		0.4	0	0	100	1	0.32
0.43		0.7	0	0	100	1	0.32
0.43		1	0	0	100	1	0.32
0.432		1.3	0	0	100	1	0.32
0.429		1.6	0	0	100	1	0.32
0.412		1.9	0	0	100	1	0.32
0.345		0.4	0.5	0	100	1	0.32
0.343		0.7	0.5	0	100	1	0.32
0.34		1	0.5	0	100	1	0.32
0.341		1.3	0.5	0	100	1	0.32
0.343		1.6	0.5	0	100	1	0.32
0.331		1.9	0.5	0	100	1	0.32

0.26		0.4	1	0	100	1	0.32
0.262		0.7	1	0	100	1	0.32
0.261		1	1	0	100	1	0.32
0.261		1.3	1	0	100	1	0.32
0.265		1.6	1	0	100	1	0.32
0.227	2	1.9	1	0	100	1	0.32
0.174		0.4	2	0	100	1	0.32
0.173		0.7	2	0	100	1	0.32
0.172		1	2	0	100	1	0.32
0.171		1.3	2	0	100	1	0.32
0.17		1.6	2	0	100	1	0.32
0.152		1.9	2	0	100	1	0.32
0.125		0.4	3	0	100	1	0.32
0.125		0.7	3	0	100	1	0.32
0.126		1	3	0	100	1	0.32
0.126		1.3	3	0	100	1	0.32
0.124		1.6	3	0	100	1	0.32
0.115		1.9	3	0	100	1	0.32
0.1		0.4	4	0	100	1	0.32
0.1		0.7	4	0	100	1	0.32
0.1		1	4	0	100	1	0.32
0.1		1.3	4	0	100	1	0.32
0.1		1.6	4	0	100	1	0.32
0.09		1.9	4	0	100	1	0.32
0.15		0.4	0	1	33	0.5	0.32
0.15		0.7	0	1	33	0.5	0.32
0.14		1	0	1	33	0.5	0.32
0.14		1.3	0	1	33	0.5	0.32
0.14		1.6	0	1	33	0.5	0.32
0.13		1.9	0	1	33	0.5	0.32
0.14		0.4	0.5	1	33	0.5	0.32
0.14		0.7	0.5	1	33	0.5	0.32
0.13		1	0.5	1	33	0.5	0.32
0.13		1.3	0.5	1	33	0.5	0.32
0.13		1.6	0.5	1	33	0.5	0.32
0.12		1.9	0.5	1	33	0.5	0.32
0.12		0.4	1	1	33	0.5	0.32
0.12		0.7	1	1	33	0.5	0.32
0.11		1	1	1	33	0.5	0.32
0.11		1.3	1	1	33	0.5	0.32
0.1		1.6	1	1	33	0.5	0.32
0.1	17	1.9	1	1	33	0.5	0.32
0.09	3	0.4	2	1	33	0.5	0.32
0.09		0.7	2	1	33	0.5	0.32
0.08		1	2	1	33	0.5	0.32
0.08		1.3	2	1	33	0.5	0.32
0.07		1.6	2	1	33	0.5	0.32
0.05		1.9	2	1	33	0.5	0.32

0.07			0.4	3	1	33	0.5	0.32
0.07			0.7	3	1	33	0.5	0.32
0.06			1	3	1	33	0.5	0.32
0.06			1.3	3	1	33	0.5	0.32
0.06			1.6	3	1	33	0.5	0.32
0.04			1.9	3	1	33	0.5	0.32
0.04			0.4	4	1	33	0.5	0.32
0.04			0.7	4	1	33	0.5	0.32
0.04			1	4	1	33	0.5	0.32
0.04			1.3	4	1	33	0.5	0.32
0.03			1.6	4	1	33	0.5	0.32
0.03			1.9	4	1	33	0.5	0.32
0.211			0.4	0	1	33	1	0.32
0.21			0.7	0	1	33	1	0.32
0.21			1	0	1	33	1	0.32
0.2			1.3	0	1	33	1	0.32
0.19			1.6	0	1	33	1	0.32
0.19			1.9	0	1	33	1	0.32
0.18			0.4	0.5	1	33	1	0.32
0.179			0.7	0.5	1	33	1	0.32
0.178			1	0.5	1	33	1	0.32
0.175			1.3	0.5	1	33	1	0.32
0.175			1.6	0.5	1	33	1	0.32
0.169			1.9	0.5	1	33	1	0.32
0.152			0.4	1	1	33	1	0.32
0.153			0.7	1	1	33	1	0.32
0.152			1	1	1	33	1	0.32
0.151			1.3	1	1	33	1	0.32
0.151			1.6	1	1	33	1	0.32
0.148	20	12	1.9	1	1	33	1	0.32
0.137			0.4	2	1	33	1	0.32
0.136			0.7	2	1	33	1	0.32
0.139			1	2	1	33	1	0.32
0.137			1.3	2	1	33	1	0.32
0.135			1.6	2	1	33	1	0.32
0.123			1.9	2	1	33	1	0.32
0.121			0.4	3	1	33	1	0.32
0.119			0.7	3	1	33	1	0.32
0.119			1	3	1	33	1	0.32
0.119			1.3	3	1	33	1	0.32
0.118			1.6	3	1	33	1	0.32
0.09			1.9	3	1	33	1	0.32
0.095			0.4	4	1	33	1	0.32
0.094			0.7	4	1	33	1	0.32
0.094			1	4	1	33	1	0.32
0.093			1.3	4	1	33	1	0.32
0.088			1.6	4	1	33	1	0.32

0.05		1.9	4	1	33	1	0.32
0.311		0.4	0	1	33	2	0.32
0.312		0.7	0	1	33	2	0.32
0.3		1	0	1	33	2	0.32
0.31		1.3	0	1	33	2	0.32
0.308		1.6	0	1	33	2	0.32
0.303		1.9	0	1	33	2	0.32
0.284		0.4	0.5	1	33	2	0.32
0.282		0.7	0.5	1	33	2	0.32
0.278		1	0.5	1	33	2	0.32
0.269		1.3	0.5	1	33	2	0.32
0.266		1.6	0.5	1	33	2	0.32
0.252		1.9	0.5	1	33	2	0.32
0.213		0.4	1	1	33	2	0.32
0.212		0.7	1	1	33	2	0.32
0.214		1	1	1	33	2	0.32
0.208		1.3	1	1	33	2	0.32
0.206		1.6	1	1	33	2	0.32
0.204	16 1	1.9	1	1	33	2	0.32
0.153		0.4	2	1	33	2	0.32
0.158		0.7	2	1	33	2	0.32
0.157		1	2	1	33	2	0.32
0.152		1.3	2	1	33	2	0.32
0.149		1.6	2	1	33	2	0.32
0.148		1.9	2	1	33	2	0.32
0.119		0.4	3	1	33	2	0.32
0.118		0.7	3	1	33	2	0.32
0.118		1	3	1	33	2	0.32
0.118		1.3	3	1	33	2	0.32
0.117		1.6	3	1	33	2	0.32
0.1		1.9	3	1	33	2	0.32
0.1		0.4	4	1	33	2	0.32
0.1		0.7	4	1	33	2	0.32
0.09		1	4	1	33	2	0.32
0.09		1.3	4	1	33	2	0.32
0.09		1.6	4	1	33	2	0.32
0.08		1.9	4	1	33	2	0.32
0.211		0.4	0	1	45	0.5	0.32
0.211		0.7	0	1	45	0.5	0.32
0.209		1	0	1	45	0.5	0.32
0.208		1.3	0	1	45	0.5	0.32
0.205		1.6	0	1	45	0.5	0.32
0.2		1.9	0	1	45	0.5	0.32
0.194		0.4	0.5	1	45	0.5	0.32
0.194		0.7	0.5	1	45	0.5	0.32
0.192		1	0.5	1	45	0.5	0.32
0.192		1.3	0.5	1	45	0.5	0.32
0.184		1.6	0.5	1	45	0.5	0.32

0.178		1.9	0.5	1	45	0.5	0.32
0.181		0.4	1	1	45	0.5	0.32
0.182		0.7	1	1	45	0.5	0.32
0.181		1	1	1	45	0.5	0.32
0.182		1.3	1	1	45	0.5	0.32
0.179		1.6	1	1	45	0.5	0.32
0.163	12	1.9	1	1	45	0.5	0.32
0.143		0.4	2	1	45	0.5	0.32
0.142		0.7	2	1	45	0.5	0.32
0.142		1	2	1	45	0.5	0.32
0.142		1.3	2	1	45	0.5	0.32
0.141		1.6	2	1	45	0.5	0.32
0.119		1.9	2	1	45	0.5	0.32
0.118		0.4	3	1	45	0.5	0.32
0.117		0.7	3	1	45	0.5	0.32
0.117		1	3	1	45	0.5	0.32
0.117		1.3	3	1	45	0.5	0.32
0.117		1.6	3	1	45	0.5	0.32
0.11		1.9	3	1	45	0.5	0.32
0.09		0.4	4	1	45	0.5	0.32
0.089		0.7	4	1	45	0.5	0.32
0.088		1	4	1	45	0.5	0.32
0.088		1.3	4	1	45	0.5	0.32
0.088		1.6	4	1	45	0.5	0.32
0.068		1.9	4	1	45	0.5	0.32
0.303		0.4	0	1	45	1	0.32
0.302		0.7	0	1	45	1	0.32
0.303		1	0	1	45	1	0.32
0.301		1.3	0	1	45	1	0.32
0.301		1.6	0	1	45	1	0.32
0.267		1.9	0	1	45	1	0.32
0.258		0.4	0.5	1	45	1	0.32
0.257		0.7	0.5	1	45	1	0.32
0.257		1	0.5	1	45	1	0.32
0.256		1.3	0.5	1	45	1	0.32
0.256		1.6	0.5	1	45	1	0.32
0.235		1.9	0.5	1	45	1	0.32
0.201		0.4	1	1	45	1	0.32
0.199		0.7	1	1	45	1	0.32
0.197		1	1	1	45	1	0.32
0.195		1.3	1	1	45	1	0.32
0.193		1.6	1	1	45	1	0.32
0.175	11	1.9	1	1	45	1	0.32
0.149		0.4	2	1	45	1	0.32
0.147		0.7	2	1	45	1	0.32
0.145		1	2	1	45	1	0.32
0.144		1.3	2	1	45	1	0.32
0.142		1.6	2	1	45	1	0.32

0.139		1.9	2	1	45	1	0.32
0.119		0.4	3	1	45	1	0.32
0.119		0.7	3	1	45	1	0.32
0.119		1	3	1	45	1	0.32
0.118		1.3	3	1	45	1	0.32
0.118		1.6	3	1	45	1	0.32
0.111		1.9	3	1	45	1	0.32
0.095		0.4	4	1	45	1	0.32
0.085		0.7	4	1	45	1	0.32
0.085		1	4	1	45	1	0.32
0.085		1.3	4	1	45	1	0.32
0.084		1.6	4	1	45	1	0.32
0.075		1.9	4	1	45	1	0.32
0.406		0.4	0	1	45	2	0.32
0.405		0.7	0	1	45	2	0.32
0.405		1	0	1	45	2	0.32
0.399		1.3	0	1	45	2	0.32
0.399		1.6	0	1	45	2	0.32
0.365		1.9	0	1	45	2	0.32
0.31		0.4	0.5	1	45	2	0.32
0.305		0.7	0.5	1	45	2	0.32
0.306		1	0.5	1	45	2	0.32
0.311		1.3	0.5	1	45	2	0.32
0.313		1.6	0.5	1	45	2	0.32
0.285		1.9	0.5	1	45	2	0.32
0.265		0.4	1	1	45	2	0.32
0.265		0.7	1	1	45	2	0.32
0.263		1	1	1	45	2	0.32
0.265		1.3	1	1	45	2	0.32
0.261		1.6	1	1	45	2	0.32
0.242	15	1.9	1	1	45	2	0.32
0.152		0.4	2	1	45	2	0.32
0.151		0.7	2	1	45	2	0.32
0.154		1	2	1	45	2	0.32
0.151		1.3	2	1	45	2	0.32
0.15		1.6	2	1	45	2	0.32
0.141		1.9	2	1	45	2	0.32
0.121		0.4	3	1	45	2	0.32
0.121		0.7	3	1	45	2	0.32
0.12		1	3	1	45	2	0.32
0.119		1.3	3	1	45	2	0.32
0.119		1.6	3	1	45	2	0.32
0.11		1.9	3	1	45	2	0.32
0.082		0.4	4	1	45	2	0.32
0.081		0.7	4	1	45	2	0.32
0.081		1	4	1	45	2	0.32
0.081		1.3	4	1	45	2	0.32
0.079		1.6	4	1	45	2	0.32

0.071		1.9	4	1	45	2	0.32
0.396		0.4	0	1	100	0.5	0.32
0.395		0.7	0	1	100	0.5	0.32
0.393		1	0	1	100	0.5	0.32
0.392		1.3	0	1	100	0.5	0.32
0.391		1.6	0	1	100	0.5	0.32
0.369		1.9	0	1	100	0.5	0.32
0.298		0.4	0.5	1	100	0.5	0.32
0.303		0.7	0.5	1	100	0.5	0.32
0.297		1	0.5	1	100	0.5	0.32
0.295		1.3	0.5	1	100	0.5	0.32
0.287		1.6	0.5	1	100	0.5	0.32
0.268		1.9	0.5	1	100	0.5	0.32
0.233		0.4	1	1	100	0.5	0.32
0.232		0.7	1	1	100	0.5	0.32
0.231		1	1	1	100	0.5	0.32
0.23		1.3	1	1	100	0.5	0.32
0.229		1.6	1	1	100	0.5	0.32
0.209	2 1	1.9	1	1	100	0.5	0.32
0.161		0.4	2	1	100	0.5	0.32
0.159		0.7	2	1	100	0.5	0.32
0.157		1	2	1	100	0.5	0.32
0.15		1.3	2	1	100	0.5	0.32
0.149		1.6	2	1	100	0.5	0.32
0.143		1.9	2	1	100	0.5	0.32
0.137		0.4	3	1	100	0.5	0.32
0.138		0.7	3	1	100	0.5	0.32
0.137		1	3	1	100	0.5	0.32
0.136		1.3	3	1	100	0.5	0.32
0.135		1.6	3	1	100	0.5	0.32
0.128		1.9	3	1	100	0.5	0.32
0.112		0.4	4	1	100	0.5	0.32
0.112		0.7	4	1	100	0.5	0.32
0.112		1	4	1	100	0.5	0.32
0.11		1.3	4	1	100	0.5	0.32
0.11		1.6	4	1	100	0.5	0.32
0.09		1.9	4	1	100	0.5	0.32
0.432		0.4	0	1	100	1	0.32
0.432		0.7	0	1	100	1	0.32
0.43		1	0	1	100	1	0.32
0.431		1.3	0	1	100	1	0.32
0.43		1.6	0	1	100	1	0.32
0.415		1.9	0	1	100	1	0.32
0.342		0.4	0.5	1	100	1	0.32
0.339		0.7	0.5	1	100	1	0.32
0.335		1	0.5	1	100	1	0.32
0.338		1.3	0.5	1	100	1	0.32
0.337		1.6	0.5	1	100	1	0.32

0.315		1.9	0.5	1	100	1	0.32
0.255		0.4	1	1	100	1	0.32
0.254		0.7	1	1	100	1	0.32
0.256		1	1	1	100	1	0.32
0.254		1.3	1	1	100	1	0.32
0.252		1.6	1	1	100	1	0.32
0.219	3	1.9	1	1	100	1	0.32
0.165	3	0.4	2	1	100	1	0.32
0.16		0.7	2	1	100	1	0.32
0.161		1	2	1	100	1	0.32
0.159		1.3	2	1	100	1	0.32
0.161		1.6	2	1	100	1	0.32
0.149		1.9	2	1	100	1	0.32
0.121		0.4	3	1	100	1	0.32
0.122		0.7	3	1	100	1	0.32
0.122		1	3	1	100	1	0.32
0.122		1.3	3	1	100	1	0.32
0.121		1.6	3	1	100	1	0.32
0.114		1.9	3	1	100	1	0.32
0.098		0.4	4	1	100	1	0.32
0.097		0.7	4	1	100	1	0.32
0.1		1	4	1	100	1	0.32
0.098		1.3	4	1	100	1	0.32
0.09		1.6	4	1	100	1	0.32
0.089		1.9	4	1	100	1	0.32
0.15		0.4	0	3	33	0.5	0.32
0.15		0.7	0	3	33	0.5	0.32
0.14		1	0	3	33	0.5	0.32
0.14		1.3	0	3	33	0.5	0.32
0.13		1.6	0	3	33	0.5	0.32
0.13		1.9	0	3	33	0.5	0.32
0.13		0.4	0.5	3	33	0.5	0.32
0.13		0.7	0.5	3	33	0.5	0.32
0.13		1	0.5	3	33	0.5	0.32
0.13		1.3	0.5	3	33	0.5	0.32
0.12		1.6	0.5	3	33	0.5	0.32
0.12		1.9	0.5	3	33	0.5	0.32
0.11		0.4	1	3	33	0.5	0.32
0.11		0.7	1	3	33	0.5	0.32
0.11		1	1	3	33	0.5	0.32
0.1		1.3	1	3	33	0.5	0.32
0.09		1.6	1	3	33	0.5	0.32
0.09	15	1.9	1	3	33	0.5	0.32
0.09	1	0.4	2	3	33	0.5	0.32
0.09		0.7	2	3	33	0.5	0.32
0.08		1	2	3	33	0.5	0.32
0.08		1.3	2	3	33	0.5	0.32
0.08		1.6	2	3	33	0.5	0.32

0.07		1.9	2	3	33	0.5	0.32
0.07		0.4	3	3	33	0.5	0.32
0.07		0.7	3	3	33	0.5	0.32
0.07		1	3	3	33	0.5	0.32
0.06		1.3	3	3	33	0.5	0.32
0.05		1.6	3	3	33	0.5	0.32
0.04		1.9	3	3	33	0.5	0.32
0.04		0.4	4	3	33	0.5	0.32
0.04		0.7	4	3	33	0.5	0.32
0.04		1	4	3	33	0.5	0.32
0.04		1.3	4	3	33	0.5	0.32
0.04		1.6	4	3	33	0.5	0.32
0.03		1.9	4	3	33	0.5	0.32
0.211		0.4	0	3	33	1	0.32
0.208		0.7	0	3	33	1	0.32
0.212		1	0	3	33	1	0.32
0.208		1.3	0	3	33	1	0.32
0.193		1.6	0	3	33	1	0.32
0.191		1.9	0	3	33	1	0.32
0.175		0.4	0.5	3	33	1	0.32
0.174		0.7	0.5	3	33	1	0.32
0.171		1	0.5	3	33	1	0.32
0.171		1.3	0.5	3	33	1	0.32
0.171		1.6	0.5	3	33	1	0.32
0.165		1.9	0.5	3	33	1	0.32
0.145		0.4	1	3	33	1	0.32
0.148		0.7	1	3	33	1	0.32
0.146		1	1	3	33	1	0.32
0.146		1.3	1	3	33	1	0.32
0.146		1.6	1	3	33	1	0.32
0.139	16	1.9	1	3	33	1	0.32
0.129		0.4	2	3	33	1	0.32
0.128		0.7	2	3	33	1	0.32
0.127		1	2	3	33	1	0.32
0.127		1.3	2	3	33	1	0.32
0.126		1.6	2	3	33	1	0.32
0.115		1.9	2	3	33	1	0.32
0.113		0.4	3	3	33	1	0.32
0.112		0.7	3	3	33	1	0.32
0.112		1	3	3	33	1	0.32
0.111		1.3	3	3	33	1	0.32
0.111		1.6	3	3	33	1	0.32
0.095		1.9	3	3	33	1	0.32
0.081		0.4	4	3	33	1	0.32
0.079		0.7	4	3	33	1	0.32
0.075		1	4	3	33	1	0.32
0.075		1.3	4	3	33	1	0.32
0.074		1.6	4	3	33	1	0.32

0.051		1.9	4	3	33	1	0.32
0.312		0.4	0	3	33	2	0.32
0.311		0.7	0	3	33	2	0.32
0.31		1	0	3	33	2	0.32
0.308		1.3	0	3	33	2	0.32
0.306		1.6	0	3	33	2	0.32
0.304		1.9	0	3	33	2	0.32
0.279		0.4	0.5	3	33	2	0.32
0.28		0.7	0.5	3	33	2	0.32
0.275		1	0.5	3	33	2	0.32
0.264		1.3	0.5	3	33	2	0.32
0.259		1.6	0.5	3	33	2	0.32
0.249		1.9	0.5	3	33	2	0.32
0.181		0.4	1	3	33	2	0.32
0.182		0.7	1	3	33	2	0.32
0.181		1	1	3	33	2	0.32
0.181		1.3	1	3	33	2	0.32
0.179		1.6	1	3	33	2	0.32
0.165	15 1	1.9	1	3	33	2	0.32
0.139		0.4	2	3	33	2	0.32
0.138		0.7	2	3	33	2	0.32
0.138		1	2	3	33	2	0.32
0.138		1.3	2	3	33	2	0.32
0.137		1.6	2	3	33	2	0.32
0.131		1.9	2	3	33	2	0.32
0.115		0.4	3	3	33	2	0.32
0.114		0.7	3	3	33	2	0.32
0.114		1	3	3	33	2	0.32
0.112		1.3	3	3	33	2	0.32
0.112		1.6	3	3	33	2	0.32
0.095		1.9	3	3	33	2	0.32
0.079		0.4	4	3	33	2	0.32
0.078		0.7	4	3	33	2	0.32
0.078		1	4	3	33	2	0.32
0.075		1.3	4	3	33	2	0.32
0.074		1.6	4	3	33	2	0.32
0.05		1.9	4	3	33	2	0.32
0.212		0.4	0	3	45	0.5	0.32
0.212		0.7	0	3	45	0.5	0.32
0.211		1	0	3	45	0.5	0.32
0.211		1.3	0	3	45	0.5	0.32
0.208		1.6	0	3	45	0.5	0.32
0.205		1.9	0	3	45	0.5	0.32
0.192		0.4	0.5	3	45	0.5	0.32
0.191		0.7	0.5	3	45	0.5	0.32
0.189		1	0.5	3	45	0.5	0.32
0.187		1.3	0.5	3	45	0.5	0.32
0.183		1.6	0.5	3	45	0.5	0.32

0.175		1.9	0.5	3	45	0.5	0.32
0.174		0.4	1	3	45	0.5	0.32
0.171		0.7	1	3	45	0.5	0.32
0.169		1	1	3	45	0.5	0.32
0.165		1.3	1	3	45	0.5	0.32
0.161		1.6	1	3	45	0.5	0.32
0.151	9	1.9	1	3	45	0.5	0.32
0.121		0.4	2	3	45	0.5	0.32
0.121		0.7	2	3	45	0.5	0.32
0.121		1	2	3	45	0.5	0.32
0.119		1.3	2	3	45	0.5	0.32
0.119		1.6	2	3	45	0.5	0.32
0.114		1.9	2	3	45	0.5	0.32
0.101		0.4	3	3	45	0.5	0.32
0.102		0.7	3	3	45	0.5	0.32
0.101		1	3	3	45	0.5	0.32
0.101		1.3	3	3	45	0.5	0.32
0.101		1.6	3	3	45	0.5	0.32
0.095		1.9	3	3	45	0.5	0.32
0.073		0.4	4	3	45	0.5	0.32
0.072		0.7	4	3	45	0.5	0.32
0.071		1	4	3	45	0.5	0.32
0.071		1.3	4	3	45	0.5	0.32
0.07		1.6	4	3	45	0.5	0.32
0.054		1.9	4	3	45	0.5	0.32
0.307		0.4	0	3	45	1	0.32
0.305		0.7	0	3	45	1	0.32
0.303		1	0	3	45	1	0.32
0.301		1.3	0	3	45	1	0.32
0.3		1.6	0	3	45	1	0.32
0.269		1.9	0	3	45	1	0.32
0.241		0.4	0.5	3	45	1	0.32
0.242		0.7	0.5	3	45	1	0.32
0.242		1	0.5	3	45	1	0.32
0.241		1.3	0.5	3	45	1	0.32
0.241		1.6	0.5	3	45	1	0.32
0.226		1.9	0.5	3	45	1	0.32
0.195		0.4	1	3	45	1	0.32
0.191		0.7	1	3	45	1	0.32
0.187		1	1	3	45	1	0.32
0.185		1.3	1	3	45	1	0.32
0.182		1.6	1	3	45	1	0.32
0.169	12	1.9	1	3	45	1	0.32
0.148		0.4	2	3	45	1	0.32
0.147		0.7	2	3	45	1	0.32
0.143		1	2	3	45	1	0.32
0.141		1.3	2	3	45	1	0.32
0.138		1.6	2	3	45	1	0.32

0.135		1.9	2	3	45	1	0.32
0.115		0.4	3	3	45	1	0.32
0.114		0.7	3	3	45	1	0.32
0.114		1	3	3	45	1	0.32
0.114		1.3	3	3	45	1	0.32
0.112		1.6	3	3	45	1	0.32
0.105		1.9	3	3	45	1	0.32
0.084		0.4	4	3	45	1	0.32
0.083		0.7	4	3	45	1	0.32
0.083		1	4	3	45	1	0.32
0.082		1.3	4	3	45	1	0.32
0.081		1.6	4	3	45	1	0.32
0.069		1.9	4	3	45	1	0.32
0.42		0.4	0	3	45	2	0.32
0.41		0.7	0	3	45	2	0.32
0.41		1	0	3	45	2	0.32
0.398		1.3	0	3	45	2	0.32
0.394		1.6	0	3	45	2	0.32
0.365		1.9	0	3	45	2	0.32
0.305		0.4	0.5	3	45	2	0.32
0.301		0.7	0.5	3	45	2	0.32
0.294		1	0.5	3	45	2	0.32
0.292		1.3	0.5	3	45	2	0.32
0.289		1.6	0.5	3	45	2	0.32
0.279		1.9	0.5	3	45	2	0.32
0.245		0.4	1	3	45	2	0.32
0.243		0.7	1	3	45	2	0.32
0.241		1	1	3	45	2	0.32
0.238		1.3	1	3	45	2	0.32
0.235		1.6	1	3	45	2	0.32
0.229	10	1.9	1	3	45	2	0.32
0.15		0.4	2	3	45	2	0.32
0.149		0.7	2	3	45	2	0.32
0.148		1	2	3	45	2	0.32
0.146		1.3	2	3	45	2	0.32
0.141		1.6	2	3	45	2	0.32
0.139		1.9	2	3	45	2	0.32
0.106		0.4	3	3	45	2	0.32
0.105		0.7	3	3	45	2	0.32
0.105		1	3	3	45	2	0.32
0.104		1.3	3	3	45	2	0.32
0.104		1.6	3	3	45	2	0.32
0.095		1.9	3	3	45	2	0.32
0.071		0.4	4	3	45	2	0.32
0.069		0.7	4	3	45	2	0.32
0.069		1	4	3	45	2	0.32
0.069		1.3	4	3	45	2	0.32
0.068		1.6	4	3	45	2	0.32

0.057		1.9	4	3	45	2	0.32
0.397		0.4	0	3	100	0.5	0.32
0.396		0.7	0	3	100	0.5	0.32
0.393		1	0	3	100	0.5	0.32
0.393		1.3	0	3	100	0.5	0.32
0.393		1.6	0	3	100	0.5	0.32
0.37		1.9	0	3	100	0.5	0.32
0.288		0.4	0.5	3	100	0.5	0.32
0.286		0.7	0.5	3	100	0.5	0.32
0.284		1	0.5	3	100	0.5	0.32
0.284		1.3	0.5	3	100	0.5	0.32
0.283		1.6	0.5	3	100	0.5	0.32
0.259		1.9	0.5	3	100	0.5	0.32
0.219		0.4	1	3	100	0.5	0.32
0.218		0.7	1	3	100	0.5	0.32
0.216		1	1	3	100	0.5	0.32
0.215		1.3	1	3	100	0.5	0.32
0.215		1.6	1	3	100	0.5	0.32
0.197	3 1	1.9	1	3	100	0.5	0.32
0.145		0.4	2	3	100	0.5	0.32
0.143		0.7	2	3	100	0.5	0.32
0.142		1	2	3	100	0.5	0.32
0.142		1.3	2	3	100	0.5	0.32
0.141		1.6	2	3	100	0.5	0.32
0.133		1.9	2	3	100	0.5	0.32
0.129		0.4	3	3	100	0.5	0.32
0.126		0.7	3	3	100	0.5	0.32
0.126		1	3	3	100	0.5	0.32
0.125		1.3	3	3	100	0.5	0.32
0.116		1.6	3	3	100	0.5	0.32
0.111		1.9	3	3	100	0.5	0.32
0.085		0.4	4	3	100	0.5	0.32
0.084		0.7	4	3	100	0.5	0.32
0.083		1	4	3	100	0.5	0.32
0.083		1.3	4	3	100	0.5	0.32
0.081		1.6	4	3	100	0.5	0.32
0.065		1.9	4	3	100	0.5	0.32
0.432		0.4	0	3	100	1	0.32
0.432		0.7	0	3	100	1	0.32
0.431		1	0	3	100	1	0.32
0.433		1.3	0	3	100	1	0.32
0.434		1.6	0	3	100	1	0.32
0.418		1.9	0	3	100	1	0.32
0.329		0.4	0.5	3	100	1	0.32
0.328		0.7	0.5	3	100	1	0.32
0.325		1	0.5	3	100	1	0.32
0.321		1.3	0.5	3	100	1	0.32
0.321		1.6	0.5	3	100	1	0.32

0.305		1.9	0.5	3	100	1	0.32
0.225		0.4	1	3	100	1	0.32
0.22		0.7	1	3	100	1	0.32
0.22		1	1	3	100	1	0.32
0.221		1.3	1	3	100	1	0.32
0.219		1.6	1	3	100	1	0.32
0.201	2	1.9	1	3	100	1	0.32
0.149		0.4	2	3	100	1	0.32
0.148		0.7	2	3	100	1	0.32
0.145		1	2	3	100	1	0.32
0.149		1.3	2	3	100	1	0.32
0.148		1.6	2	3	100	1	0.32
0.146		1.9	2	3	100	1	0.32
0.103		0.4	3	3	100	1	0.32
0.102		0.7	3	3	100	1	0.32
0.102		1	3	3	100	1	0.32
0.101		1.3	3	3	100	1	0.32
0.101		1.6	3	3	100	1	0.32
0.085		1.9	3	3	100	1	0.32
0.061		0.4	4	3	100	1	0.32
0.062		0.7	4	3	100	1	0.32
0.061		1	4	3	100	1	0.32
0.061		1.3	4	3	100	1	0.32
0.058		1.6	4	3	100	1	0.32
0.047		1.9	4	3	100	1	0.32
0.15		0.4	0	5	33	0.5	0.32
0.15		0.7	0	5	33	0.5	0.32
0.14		1	0	5	33	0.5	0.32
0.14		1.3	0	5	33	0.5	0.32
0.13		1.6	0	5	33	0.5	0.32
0.13		1.9	0	5	33	0.5	0.32
0.11		0.4	0.5	5	33	0.5	0.32
0.11		0.7	0.5	5	33	0.5	0.32
0.1		1	0.5	5	33	0.5	0.32
0.1		1.3	0.5	5	33	0.5	0.32
0.1		1.6	0.5	5	33	0.5	0.32
0.085		1.9	0.5	5	33	0.5	0.32
0.085		0.4	1	5	33	0.5	0.32
0.085		0.7	1	5	33	0.5	0.32
0.085		1	1	5	33	0.5	0.32
0.08		1.3	1	5	33	0.5	0.32
0.085		1.6	1	5	33	0.5	0.32
0.075	17	1.9	1	5	33	0.5	0.32
0.06		0.4	2	5	33	0.5	0.32
0.06		0.7	2	5	33	0.5	0.32
0.05		1	2	5	33	0.5	0.32
0.05		1.3	2	5	33	0.5	0.32
0.05		1.6	2	5	33	0.5	0.32

0.05		1.9	2	5	33	0.5	0.32
0.04		0.4	3	5	33	0.5	0.32
0.04		0.7	3	5	33	0.5	0.32
0.04		1	3	5	33	0.5	0.32
0.03		1.3	3	5	33	0.5	0.32
0.03		1.6	3	5	33	0.5	0.32
0.03		1.9	3	5	33	0.5	0.32
0.02		0.4	4	5	33	0.5	0.32
0.02		0.7	4	5	33	0.5	0.32
0.02		1	4	5	33	0.5	0.32
0.015		1.3	4	5	33	0.5	0.32
0.015		1.6	4	5	33	0.5	0.32
0.005		1.9	4	5	33	0.5	0.32
0.212		0.4	0	5	33	1	0.32
0.212		0.7	0	5	33	1	0.32
0.213		1	0	5	33	1	0.32
0.21		1.3	0	5	33	1	0.32
0.205		1.6	0	5	33	1	0.32
0.199		1.9	0	5	33	1	0.32
0.169		0.4	0.5	5	33	1	0.32
0.168		0.7	0.5	5	33	1	0.32
0.167		1	0.5	5	33	1	0.32
0.163		1.3	0.5	5	33	1	0.32
0.162		1.6	0.5	5	33	1	0.32
0.156		1.9	0.5	5	33	1	0.32
0.131		0.4	1	5	33	1	0.32
0.129		0.7	1	5	33	1	0.32
0.128		1	1	5	33	1	0.32
0.126		1.3	1	5	33	1	0.32
0.124		1.6	1	5	33	1	0.32
0.116		1.9	1	5	33	1	0.32
0.101	16	0.4	2	5	33	1	0.32
0.098		0.7	2	5	33	1	0.32
0.099		1	2	5	33	1	0.32
0.098		1.3	2	5	33	1	0.32
0.096		1.6	2	5	33	1	0.32
0.088		1.9	2	5	33	1	0.32
0.068		0.4	3	5	33	1	0.32
0.066		0.7	3	5	33	1	0.32
0.067		1	3	5	33	1	0.32
0.066		1.3	3	5	33	1	0.32
0.065		1.6	3	5	33	1	0.32
0.058		1.9	3	5	33	1	0.32
0.024		0.4	4	5	33	1	0.32
0.023		0.7	4	5	33	1	0.32
0.023		1	4	5	33	1	0.32

0.021		1.3	4	5	33	1	0.32
0.02		1.6	4	5	33	1	0.32
0.012		1.9	4	5	33	1	0.32
0.31		0.4	0	5	33	2	0.32
0.31		0.7	0	5	33	2	0.32
0.3		1	0	5	33	2	0.32
0.309		1.3	0	5	33	2	0.32
0.304		1.6	0	5	33	2	0.32
0.303		1.9	0	5	33	2	0.32
0.263		0.4	0.5	5	33	2	0.32
0.263		0.7	0.5	5	33	2	0.32
0.261		1	0.5	5	33	2	0.32
0.262		1.3	0.5	5	33	2	0.32
0.259		1.6	0.5	5	33	2	0.32
0.245		1.9	0.5	5	33	2	0.32
0.153		0.4	1	5	33	2	0.32
0.151		0.7	1	5	33	2	0.32
0.152		1	1	5	33	2	0.32
0.151		1.3	1	5	33	2	0.32
0.147		1.6	1	5	33	2	0.32
0.143	18 3	1.9	1	5	33	2	0.32
0.118		0.4	2	5	33	2	0.32
0.117		0.7	2	5	33	2	0.32
0.117		1	2	5	33	2	0.32
0.117		1.3	2	5	33	2	0.32
0.115		1.6	2	5	33	2	0.32
0.102		1.9	2	5	33	2	0.32
0.074		0.4	3	5	33	2	0.32
0.073		0.7	3	5	33	2	0.32
0.073		1	3	5	33	2	0.32
0.072		1.3	3	5	33	2	0.32
0.071		1.6	3	5	33	2	0.32
0.058		1.9	3	5	33	2	0.32
0.029		0.4	4	5	33	2	0.32
0.028		0.7	4	5	33	2	0.32
0.026		1	4	5	33	2	0.32
0.025		1.3	4	5	33	2	0.32
0.021		1.6	4	5	33	2	0.32
0.011		1.9	4	5	33	2	0.32
0.211		0.4	0	5	45	0.5	0.32
0.211		0.7	0	5	45	0.5	0.32
0.21		1	0	5	45	0.5	0.32
0.21		1.3	0	5	45	0.5	0.32
0.205		1.6	0	5	45	0.5	0.32
0.201		1.9	0	5	45	0.5	0.32
0.162		0.4	0.5	5	45	0.5	0.32
0.159		0.7	0.5	5	45	0.5	0.32
0.158		1	0.5	5	45	0.5	0.32

0.157		1.3	0.5	5	45	0.5	0.32
0.156		1.6	0.5	5	45	0.5	0.32
0.149		1.9	0.5	5	45	0.5	0.32
0.121		0.4	1	5	45	0.5	0.32
0.122		0.7	1	5	45	0.5	0.32
0.123		1	1	5	45	0.5	0.32
0.121		1.3	1	5	45	0.5	0.32
0.118		1.6	1	5	45	0.5	0.32
0.106	12	1.9	1	5	45	0.5	0.32
0.093		0.4	2	5	45	0.5	0.32
0.091		0.7	2	5	45	0.5	0.32
0.091		1	2	5	45	0.5	0.32
0.092		1.3	2	5	45	0.5	0.32
0.091		1.6	2	5	45	0.5	0.32
0.084		1.9	2	5	45	0.5	0.32
0.056		0.4	3	5	45	0.5	0.32
0.057		0.7	3	5	45	0.5	0.32
0.055		1	3	5	45	0.5	0.32
0.055		1.3	3	5	45	0.5	0.32
0.054		1.6	3	5	45	0.5	0.32
0.042		1.9	3	5	45	0.5	0.32
0.021		0.4	4	5	45	0.5	0.32
0.019		0.7	4	5	45	0.5	0.32
0.017		1	4	5	45	0.5	0.32
0.018		1.3	4	5	45	0.5	0.32
0.017		1.6	4	5	45	0.5	0.32
0.008		1.9	4	5	45	0.5	0.32
0.31		0.4	0	5	45	1	0.32
0.307		0.7	0	5	45	1	0.32
0.303		1	0	5	45	1	0.32
0.301		1.3	0	5	45	1	0.32
0.3		1.6	0	5	45	1	0.32
0.269		1.9	0	5	45	1	0.32
0.201		0.4	0.5	5	45	1	0.32
0.199		0.7	0.5	5	45	1	0.32
0.202		1	0.5	5	45	1	0.32
0.198		1.3	0.5	5	45	1	0.32
0.198		1.6	0.5	5	45	1	0.32
0.186		1.9	0.5	5	45	1	0.32
0.156		0.4	1	5	45	1	0.32
0.152		0.7	1	5	45	1	0.32
0.155		1	1	5	45	1	0.32
0.154		1.3	1	5	45	1	0.32
0.153		1.6	1	5	45	1	0.32
0.147	13	1.9	1	5	45	1	0.32
0.117		0.4	2	5	45	1	0.32
0.116		0.7	2	5	45	1	0.32
0.115		1	2	5	45	1	0.32

0.115		1.3	2	5	45	1	0.32
0.114		1.6	2	5	45	1	0.32
0.101		1.9	2	5	45	1	0.32
0.081		0.4	3	5	45	1	0.32
0.082		0.7	3	5	45	1	0.32
0.081		1	3	5	45	1	0.32
0.079		1.3	3	5	45	1	0.32
0.079		1.6	3	5	45	1	0.32
0.069		1.9	3	5	45	1	0.32
0.032		0.4	4	5	45	1	0.32
0.031		0.7	4	5	45	1	0.32
0.032		1	4	5	45	1	0.32
0.029		1.3	4	5	45	1	0.32
0.026		1.6	4	5	45	1	0.32
0.013		1.9	4	5	45	1	0.32
0.425		0.4	0	5	45	2	0.32
0.418		0.7	0	5	45	2	0.32
0.412		1	0	5	45	2	0.32
0.405		1.3	0	5	45	2	0.32
0.399		1.6	0	5	45	2	0.32
0.376		1.9	0	5	45	2	0.32
0.247		0.4	0.5	5	45	2	0.32
0.246		0.7	0.5	5	45	2	0.32
0.244		1	0.5	5	45	2	0.32
0.242		1.3	0.5	5	45	2	0.32
0.241		1.6	0.5	5	45	2	0.32
0.229		1.9	0.5	5	45	2	0.32
0.162		0.4	1	5	45	2	0.32
0.161		0.7	1	5	45	2	0.32
0.159		1	1	5	45	2	0.32
0.158		1.3	1	5	45	2	0.32
0.156		1.6	1	5	45	2	0.32
0.148	11 1	1.9	1	5	45	2	0.32
0.115		0.4	2	5	45	2	0.32
0.114		0.7	2	5	45	2	0.32
0.112		1	2	5	45	2	0.32
0.111		1.3	2	5	45	2	0.32
0.111		1.6	2	5	45	2	0.32
0.098		1.9	2	5	45	2	0.32
0.079		0.4	3	5	45	2	0.32
0.078		0.7	3	5	45	2	0.32
0.077		1	3	5	45	2	0.32
0.075		1.3	3	5	45	2	0.32
0.072		1.6	3	5	45	2	0.32
0.059		1.9	3	5	45	2	0.32
0.031		0.4	4	5	45	2	0.32
0.032		0.7	4	5	45	2	0.32
0.032		1	4	5	45	2	0.32

0.032		1.3	4	5	45	2	0.32
0.031		1.6	4	5	45	2	0.32
0.017		1.9	4	5	45	2	0.32
0.396		0.4	0	5	100	0.5	0.32
0.391		0.7	0	5	100	0.5	0.32
0.387		1	0	5	100	0.5	0.32
0.386		1.3	0	5	100	0.5	0.32
0.383		1.6	0	5	100	0.5	0.32
0.378		1.9	0	5	100	0.5	0.32
0.251		0.4	0.5	5	100	0.5	0.32
0.252		0.7	0.5	5	100	0.5	0.32
0.251		1	0.5	5	100	0.5	0.32
0.249		1.3	0.5	5	100	0.5	0.32
0.248		1.6	0.5	5	100	0.5	0.32
0.236		1.9	0.5	5	100	0.5	0.32
0.159		0.4	1	5	100	0.5	0.32
0.154		0.7	1	5	100	0.5	0.32
0.153		1	1	5	100	0.5	0.32
0.152		1.3	1	5	100	0.5	0.32
0.148		1.6	1	5	100	0.5	0.32
0.137	2 1	1.9	1	5	100	0.5	0.32
0.111		0.4	2	5	100	0.5	0.32
0.111		0.7	2	5	100	0.5	0.32
0.112		1	2	5	100	0.5	0.32
0.109		1.3	2	5	100	0.5	0.32
0.105		1.6	2	5	100	0.5	0.32
0.101		1.9	2	5	100	0.5	0.32
0.081		0.4	3	5	100	0.5	0.32
0.082		0.7	3	5	100	0.5	0.32
0.082		1	3	5	100	0.5	0.32
0.081		1.3	3	5	100	0.5	0.32
0.079		1.6	3	5	100	0.5	0.32
0.063		1.9	3	5	100	0.5	0.32
0.034		0.4	4	5	100	0.5	0.32
0.033		0.7	4	5	100	0.5	0.32
0.033		1	4	5	100	0.5	0.32
0.032		1.3	4	5	100	0.5	0.32
0.028		1.6	4	5	100	0.5	0.32
0.015		1.9	4	5	100	0.5	0.32
0.445		0.4	0	5	100	1	0.32
0.445		0.7	0	5	100	1	0.32
0.445		1	0	5	100	1	0.32
0.439		1.3	0	5	100	1	0.32
0.441		1.6	0	5	100	1	0.32
0.418		1.9	0	5	100	1	0.32
0.248		0.4	0.5	5	100	1	0.32
0.247		0.7	0.5	5	100	1	0.32
0.246		1	0.5	5	100	1	0.32

0.244		1.3	0.5	5	100	1	0.32
0.239		1.6	0.5	5	100	1	0.32
0.212		1.9	0.5	5	100	1	0.32
0.152		0.4	1	5	100	1	0.32
0.151		0.7	1	5	100	1	0.32
0.149		1	1	5	100	1	0.32
0.151		1.3	1	5	100	1	0.32
0.152		1.6	1	5	100	1	0.32
0.144	4	1.9	1	5	100	1	0.32
0.109	3	0.4	2	5	100	1	0.32
0.108		0.7	2	5	100	1	0.32
0.106		1	2	5	100	1	0.32
0.104		1.3	2	5	100	1	0.32
0.099		1.6	2	5	100	1	0.32
0.078		1.9	2	5	100	1	0.32
0.073		0.4	3	5	100	1	0.32
0.071		0.7	3	5	100	1	0.32
0.069		1	3	5	100	1	0.32
0.066		1.3	3	5	100	1	0.32
0.063		1.6	3	5	100	1	0.32
0.047		1.9	3	5	100	1	0.32
0.026		0.4	4	5	100	1	0.32
0.024		0.7	4	5	100	1	0.32
0.023		1	4	5	100	1	0.32
0.019		1.3	4	5	100	1	0.32
0.017		1.6	4	5	100	1	0.32
0.008		1.9	4	5	100	1	0.32
0.161		0.4	0	0	33	0.5	0.151
0.159		0.7	0	0	33	0.5	0.151
0.158		1	0	0	33	0.5	0.151
0.157		1.3	0	0	33	0.5	0.151
0.154		1.6	0	0	33	0.5	0.151
0.147		1.9	0	0	33	0.5	0.151
0.151		0.4	0.5	0	33	0.5	0.151
0.147		0.7	0.5	0	33	0.5	0.151
0.148		1	0.5	0	33	0.5	0.151
0.143		1.3	0.5	0	33	0.5	0.151
0.139		1.6	0.5	0	33	0.5	0.151
0.134		1.9	0.5	0	33	0.5	0.151
0.121		0.4	1	0	33	0.5	0.151
0.119		0.7	1	0	33	0.5	0.151
0.119		1	1	0	33	0.5	0.151
0.121		1.3	1	0	33	0.5	0.151
0.122		1.6	1	0	33	0.5	0.151
0.119	19	1.9	1	0	33	0.5	0.151
0.101	3	0.4	2	0	33	0.5	0.151
0.099		0.7	2	0	33	0.5	0.151
0.097		1	2	0	33	0.5	0.151

0.096		1.3	2	0	33	0.5	0.151
0.089		1.6	2	0	33	0.5	0.151
0.068		1.9	2	0	33	0.5	0.151
0.071		0.4	3	0	33	0.5	0.151
0.069		0.7	3	0	33	0.5	0.151
0.068		1	3	0	33	0.5	0.151
0.065		1.3	3	0	33	0.5	0.151
0.063		1.6	3	0	33	0.5	0.151
0.049		1.9	3	0	33	0.5	0.151
0.052		0.4	4	0	33	0.5	0.151
0.051		0.7	4	0	33	0.5	0.151
0.047		1	4	0	33	0.5	0.151
0.043		1.3	4	0	33	0.5	0.151
0.041		1.6	4	0	33	0.5	0.151
0.038		1.9	4	0	33	0.5	0.151
0.223		0.4	0	0	33	1	0.151
0.221		0.7	0	0	33	1	0.151
0.221		1	0	0	33	1	0.151
0.222		1.3	0	0	33	1	0.151
0.219		1.6	0	0	33	1	0.151
0.187		1.9	0	0	33	1	0.151
0.193		0.4	0.5	0	33	1	0.151
0.194		0.7	0.5	0	33	1	0.151
0.191		1	0.5	0	33	1	0.151
0.189		1.3	0.5	0	33	1	0.151
0.186		1.6	0.5	0	33	1	0.151
0.171		1.9	0.5	0	33	1	0.151
0.165		0.4	1	0	33	1	0.151
0.166		0.7	1	0	33	1	0.151
0.166		1	1	0	33	1	0.151
0.165		1.3	1	0	33	1	0.151
0.159		1.6	1	0	33	1	0.151
0.143	19	1.9	1	0	33	1	0.151
0.144	0	0.4	2	0	33	1	0.151
0.143		0.7	2	0	33	1	0.151
0.142		1	2	0	33	1	0.151
0.141		1.3	2	0	33	1	0.151
0.138		1.6	2	0	33	1	0.151
0.121		1.9	2	0	33	1	0.151
0.127		0.4	3	0	33	1	0.151
0.126		0.7	3	0	33	1	0.151
0.125		1	3	0	33	1	0.151
0.127		1.3	3	0	33	1	0.151
0.119		1.6	3	0	33	1	0.151
0.095		1.9	3	0	33	1	0.151
0.091		0.4	4	0	33	1	0.151
0.091		0.7	4	0	33	1	0.151
0.091		1	4	0	33	1	0.151

0.09			1.3	4	0	33	1	0.151
0.075			1.6	4	0	33	1	0.151
0.052			1.9	4	0	33	1	0.151
0.317			0.4	0	0	33	2	0.151
0.315			0.7	0	0	33	2	0.151
0.314			1	0	0	33	2	0.151
0.315			1.3	0	0	33	2	0.151
0.314			1.6	0	0	33	2	0.151
0.287			1.9	0	0	33	2	0.151
0.288			0.4	0.5	0	33	2	0.151
0.284			0.7	0.5	0	33	2	0.151
0.289			1	0.5	0	33	2	0.151
0.281			1.3	0.5	0	33	2	0.151
0.269			1.6	0.5	0	33	2	0.151
0.236			1.9	0.5	0	33	2	0.151
0.239			0.4	1	0	33	2	0.151
0.236			0.7	1	0	33	2	0.151
0.235			1	1	0	33	2	0.151
0.231			1.3	1	0	33	2	0.151
0.214			1.6	1	0	33	2	0.151
0.153	16	1	1.9	1	0	33	2	0.151
0.155			0.4	2	0	33	2	0.151
0.158			0.7	2	0	33	2	0.151
0.159			1	2	0	33	2	0.151
0.151			1.3	2	0	33	2	0.151
0.143			1.6	2	0	33	2	0.151
0.138			1.9	2	0	33	2	0.151
0.118			0.4	3	0	33	2	0.151
0.117			0.7	3	0	33	2	0.151
0.116			1	3	0	33	2	0.151
0.116			1.3	3	0	33	2	0.151
0.105			1.6	3	0	33	2	0.151
0.093			1.9	3	0	33	2	0.151
0.081			0.4	4	0	33	2	0.151
0.083			0.7	4	0	33	2	0.151
0.081			1	4	0	33	2	0.151
0.078			1.3	4	0	33	2	0.151
0.078			1.6	4	0	33	2	0.151
0.051			1.9	4	0	33	2	0.151
0.214			0.4	0	0	45	0.5	0.151
0.215			0.7	0	0	45	0.5	0.151
0.214			1	0	0	45	0.5	0.151
0.213			1.3	0	0	45	0.5	0.151
0.211			1.6	0	0	45	0.5	0.151
0.211			1.9	0	0	45	0.5	0.151
0.187			0.4	0.5	0	45	0.5	0.151
0.185			0.7	0.5	0	45	0.5	0.151
0.183			1	0.5	0	45	0.5	0.151

0.186			1.3	0.5	0	45	0.5	0.151
0.186			1.6	0.5	0	45	0.5	0.151
0.162			1.9	0.5	0	45	0.5	0.151
0.165			0.4	1	0	45	0.5	0.151
0.165			0.7	1	0	45	0.5	0.151
0.163			1	1	0	45	0.5	0.151
0.165			1.3	1	0	45	0.5	0.151
0.159			1.6	1	0	45	0.5	0.151
0.143	11	3	1.9	1	0	45	0.5	0.151
0.143			0.4	2	0	45	0.5	0.151
0.142			0.7	2	0	45	0.5	0.151
0.141			1	2	0	45	0.5	0.151
0.143			1.3	2	0	45	0.5	0.151
0.142			1.6	2	0	45	0.5	0.151
0.118			1.9	2	0	45	0.5	0.151
0.119			0.4	3	0	45	0.5	0.151
0.121			0.7	3	0	45	0.5	0.151
0.123			1	3	0	45	0.5	0.151
0.123			1.3	3	0	45	0.5	0.151
0.121			1.6	3	0	45	0.5	0.151
0.109			1.9	3	0	45	0.5	0.151
0.094			0.4	4	0	45	0.5	0.151
0.091			0.7	4	0	45	0.5	0.151
0.085			1	4	0	45	0.5	0.151
0.084			1.3	4	0	45	0.5	0.151
0.083			1.6	4	0	45	0.5	0.151
0.068			1.9	4	0	45	0.5	0.151
0.307			0.4	0	0	45	1	0.151
0.307			0.7	0	0	45	1	0.151
0.306			1	0	0	45	1	0.151
0.311			1.3	0	0	45	1	0.151
0.305			1.6	0	0	45	1	0.151
0.283			1.9	0	0	45	1	0.151
0.263			0.4	0.5	0	45	1	0.151
0.259			0.7	0.5	0	45	1	0.151
0.264			1	0.5	0	45	1	0.151
0.263			1.3	0.5	0	45	1	0.151
0.258			1.6	0.5	0	45	1	0.151
0.244			1.9	0.5	0	45	1	0.151
0.219			0.4	1	0	45	1	0.151
0.218			0.7	1	0	45	1	0.151
0.221			1	1	0	45	1	0.151
0.215			1.3	1	0	45	1	0.151
0.207			1.6	1	0	45	1	0.151
0.199	9	1	1.9	1	0	45	1	0.151
0.152			0.4	2	0	45	1	0.151
0.156			0.7	2	0	45	1	0.151
0.148			1	2	0	45	1	0.151

0.146		1.3	2	0	45	1	0.151
0.144		1.6	2	0	45	1	0.151
0.139		1.9	2	0	45	1	0.151
0.119		0.4	3	0	45	1	0.151
0.118		0.7	3	0	45	1	0.151
0.119		1	3	0	45	1	0.151
0.117		1.3	3	0	45	1	0.151
0.114		1.6	3	0	45	1	0.151
0.108		1.9	3	0	45	1	0.151
0.091		0.4	4	0	45	1	0.151
0.092		0.7	4	0	45	1	0.151
0.093		1	4	0	45	1	0.151
0.092		1.3	4	0	45	1	0.151
0.091		1.6	4	0	45	1	0.151
0.069		1.9	4	0	45	1	0.151
0.401		0.4	0	0	45	2	0.151
0.398		0.7	0	0	45	2	0.151
0.397		1	0	0	45	2	0.151
0.399		1.3	0	0	45	2	0.151
0.393		1.6	0	0	45	2	0.151
0.371		1.9	0	0	45	2	0.151
0.341		0.4	0.5	0	45	2	0.151
0.333		0.7	0.5	0	45	2	0.151
0.331		1	0.5	0	45	2	0.151
0.33		1.3	0.5	0	45	2	0.151
0.332		1.6	0.5	0	45	2	0.151
0.302		1.9	0.5	0	45	2	0.151
0.281		0.4	1	0	45	2	0.151
0.278		0.7	1	0	45	2	0.151
0.271		1	1	0	45	2	0.151
0.279		1.3	1	0	45	2	0.151
0.273		1.6	1	0	45	2	0.151
0.255	10	1.9	1	0	45	2	0.151
0.151		0.4	2	0	45	2	0.151
0.162		0.7	2	0	45	2	0.151
0.159		1	2	0	45	2	0.151
0.157		1.3	2	0	45	2	0.151
0.166		1.6	2	0	45	2	0.151
0.148		1.9	2	0	45	2	0.151
0.116		0.4	3	0	45	2	0.151
0.121		0.7	3	0	45	2	0.151
0.126		1	3	0	45	2	0.151
0.121		1.3	3	0	45	2	0.151
0.119		1.6	3	0	45	2	0.151
0.114		1.9	3	0	45	2	0.151
0.075		0.4	4	0	45	2	0.151
0.091		0.7	4	0	45	2	0.151
0.089		1	4	0	45	2	0.151

0.083			1.3	4	0	45	2	0.151
0.081			1.6	4	0	45	2	0.151
0.069			1.9	4	0	45	2	0.151
0.408			0.4	0	0	100	0.5	0.151
0.401			0.7	0	0	100	0.5	0.151
0.402			1	0	0	100	0.5	0.151
0.401			1.3	0	0	100	0.5	0.151
0.402			1.6	0	0	100	0.5	0.151
0.378			1.9	0	0	100	0.5	0.151
0.314			0.4	0.5	0	100	0.5	0.151
0.315			0.7	0.5	0	100	0.5	0.151
0.321			1	0.5	0	100	0.5	0.151
0.322			1.3	0.5	0	100	0.5	0.151
0.317			1.6	0.5	0	100	0.5	0.151
0.298			1.9	0.5	0	100	0.5	0.151
0.257			0.4	1	0	100	0.5	0.151
0.258			0.7	1	0	100	0.5	0.151
0.251			1	1	0	100	0.5	0.151
0.258			1.3	1	0	100	0.5	0.151
0.256			1.6	1	0	100	0.5	0.151
0.239	2	1	1.9	1	0	100	0.5	0.151
0.188			0.4	2	0	100	0.5	0.151
0.181			0.7	2	0	100	0.5	0.151
0.179			1	2	0	100	0.5	0.151
0.178			1.3	2	0	100	0.5	0.151
0.166			1.6	2	0	100	0.5	0.151
0.159			1.9	2	0	100	0.5	0.151
0.147			0.4	3	0	100	0.5	0.151
0.146			0.7	3	0	100	0.5	0.151
0.145			1	3	0	100	0.5	0.151
0.145			1.3	3	0	100	0.5	0.151
0.145			1.6	3	0	100	0.5	0.151
0.131			1.9	3	0	100	0.5	0.151
0.121			0.4	4	0	100	0.5	0.151
0.122			0.7	4	0	100	0.5	0.151
0.123			1	4	0	100	0.5	0.151
0.121			1.3	4	0	100	0.5	0.151
0.122			1.6	4	0	100	0.5	0.151
0.088			1.9	4	0	100	0.5	0.151
0.435			0.4	0	0	100	1	0.151
0.432			0.7	0	0	100	1	0.151
0.432			1	0	0	100	1	0.151
0.432			1.3	0	0	100	1	0.151
0.431			1.6	0	0	100	1	0.151
0.428			1.9	0	0	100	1	0.151
0.346			0.4	0.5	0	100	1	0.151
0.349			0.7	0.5	0	100	1	0.151
0.348			1	0.5	0	100	1	0.151

0.347			1.3	0.5	0	100	1	0.151
0.344			1.6	0.5	0	100	1	0.151
0.329			1.9	0.5	0	100	1	0.151
0.264			0.4	1	0	100	1	0.151
0.265			0.7	1	0	100	1	0.151
0.265			1	1	0	100	1	0.151
0.265			1.3	1	0	100	1	0.151
0.261			1.6	1	0	100	1	0.151
0.231	2	1	1.9	1	0	100	1	0.151
0.186			0.4	2	0	100	1	0.151
0.181			0.7	2	0	100	1	0.151
0.181			1	2	0	100	1	0.151
0.179			1.3	2	0	100	1	0.151
0.179			1.6	2	0	100	1	0.151
0.148			1.9	2	0	100	1	0.151
0.141			0.4	3	0	100	1	0.151
0.138			0.7	3	0	100	1	0.151
0.137			1	3	0	100	1	0.151
0.136			1.3	3	0	100	1	0.151
0.136			1.6	3	0	100	1	0.151
0.118			1.9	3	0	100	1	0.151
0.121			0.4	4	0	100	1	0.151
0.117			0.7	4	0	100	1	0.151
0.116			1	4	0	100	1	0.151
0.115			1.3	4	0	100	1	0.151
0.115			1.6	4	0	100	1	0.151
0.087			1.9	4	0	100	1	0.151
0.161			0.4	0	3	33	0.5	0.151
0.159			0.7	0	3	33	0.5	0.151
0.158			1	0	3	33	0.5	0.151
0.155			1.3	0	3	33	0.5	0.151
0.152			1.6	0	3	33	0.5	0.151
0.154			1.9	0	3	33	0.5	0.151
0.148			0.4	0.5	3	33	0.5	0.151
0.147			0.7	0.5	3	33	0.5	0.151
0.146			1	0.5	3	33	0.5	0.151
0.144			1.3	0.5	3	33	0.5	0.151
0.139			1.6	0.5	3	33	0.5	0.151
0.134			1.9	0.5	3	33	0.5	0.151
0.118			0.4	1	3	33	0.5	0.151
0.119			0.7	1	3	33	0.5	0.151
0.119			1	1	3	33	0.5	0.151
0.119			1.3	1	3	33	0.5	0.151
0.116			1.6	1	3	33	0.5	0.151
0.099	16	1	1.9	1	3	33	0.5	0.151
0.091			0.4	2	3	33	0.5	0.151
0.095			0.7	2	3	33	0.5	0.151
0.095			1	2	3	33	0.5	0.151

0.096		1.3	2	3	33	0.5	0.151
0.094		1.6	2	3	33	0.5	0.151
0.069		1.9	2	3	33	0.5	0.151
0.075		0.4	3	3	33	0.5	0.151
0.065		0.7	3	3	33	0.5	0.151
0.063		1	3	3	33	0.5	0.151
0.063		1.3	3	3	33	0.5	0.151
0.063		1.6	3	3	33	0.5	0.151
0.039		1.9	3	3	33	0.5	0.151
0.035		0.4	4	3	33	0.5	0.151
0.034		0.7	4	3	33	0.5	0.151
0.033		1	4	3	33	0.5	0.151
0.033		1.3	4	3	33	0.5	0.151
0.031		1.6	4	3	33	0.5	0.151
0.023		1.9	4	3	33	0.5	0.151
0.223		0.4	0	3	33	1	0.151
0.221		0.7	0	3	33	1	0.151
0.221		1	0	3	33	1	0.151
0.222		1.3	0	3	33	1	0.151
0.219		1.6	0	3	33	1	0.151
0.187		1.9	0	3	33	1	0.151
0.193		0.4	0.5	3	33	1	0.151
0.194		0.7	0.5	3	33	1	0.151
0.191		1	0.5	3	33	1	0.151
0.189		1.3	0.5	3	33	1	0.151
0.186		1.6	0.5	3	33	1	0.151
0.171		1.9	0.5	3	33	1	0.151
0.165		0.4	1	3	33	1	0.151
0.166		0.7	1	3	33	1	0.151
0.166		1	1	3	33	1	0.151
0.165		1.3	1	3	33	1	0.151
0.159		1.6	1	3	33	1	0.151
0.143	16	1.9	1	3	33	1	0.151
0.144		0.4	2	3	33	1	0.151
0.143		0.7	2	3	33	1	0.151
0.142		1	2	3	33	1	0.151
0.141		1.3	2	3	33	1	0.151
0.138		1.6	2	3	33	1	0.151
0.121		1.9	2	3	33	1	0.151
0.127		0.4	3	3	33	1	0.151
0.126		0.7	3	3	33	1	0.151
0.125		1	3	3	33	1	0.151
0.127		1.3	3	3	33	1	0.151
0.119		1.6	3	3	33	1	0.151
0.095		1.9	3	3	33	1	0.151
0.091		0.4	4	3	33	1	0.151
0.091		0.7	4	3	33	1	0.151
0.091		1	4	3	33	1	0.151

0.09			1.3	4	3	33	1	0.151
0.075			1.6	4	3	33	1	0.151
0.052			1.9	4	3	33	1	0.151
0.31			0.4	0	3	33	2	0.151
0.312			0.7	0	3	33	2	0.151
0.311			1	0	3	33	2	0.151
0.309			1.3	0	3	33	2	0.151
0.309			1.6	0	3	33	2	0.151
0.306			1.9	0	3	33	2	0.151
0.284			0.4	0.5	3	33	2	0.151
0.286			0.7	0.5	3	33	2	0.151
0.278			1	0.5	3	33	2	0.151
0.266			1.3	0.5	3	33	2	0.151
0.261			1.6	0.5	3	33	2	0.151
0.248			1.9	0.5	3	33	2	0.151
0.186			0.4	1	3	33	2	0.151
0.181			0.7	1	3	33	2	0.151
0.183			1	1	3	33	2	0.151
0.186			1.3	1	3	33	2	0.151
0.185			1.6	1	3	33	2	0.151
0.172	15	1	1.9	1	3	33	2	0.151
0.142			0.4	2	3	33	2	0.151
0.141			0.7	2	3	33	2	0.151
0.136			1	2	3	33	2	0.151
0.139			1.3	2	3	33	2	0.151
0.139			1.6	2	3	33	2	0.151
0.134			1.9	2	3	33	2	0.151
0.109			0.4	3	3	33	2	0.151
0.112			0.7	3	3	33	2	0.151
0.111			1	3	3	33	2	0.151
0.111			1.3	3	3	33	2	0.151
0.112			1.6	3	3	33	2	0.151
0.094			1.9	3	3	33	2	0.151
0.081			0.4	4	3	33	2	0.151
0.076			0.7	4	3	33	2	0.151
0.076			1	4	3	33	2	0.151
0.075			1.3	4	3	33	2	0.151
0.074			1.6	4	3	33	2	0.151
0.051			1.9	4	3	33	2	0.151
0.22			0.4	0	3	45	0.5	0.151
0.217			0.7	0	3	45	0.5	0.151
0.215			1	0	3	45	0.5	0.151
0.215			1.3	0	3	45	0.5	0.151
0.214			1.6	0	3	45	0.5	0.151
0.208			1.9	0	3	45	0.5	0.151
0.195			0.4	0.5	3	45	0.5	0.151
0.194			0.7	0.5	3	45	0.5	0.151
0.193			1	0.5	3	45	0.5	0.151

0.188		1.3	0.5	3	45	0.5	0.151
0.179		1.6	0.5	3	45	0.5	0.151
0.176		1.9	0.5	3	45	0.5	0.151
0.179		0.4	1	3	45	0.5	0.151
0.181		0.7	1	3	45	0.5	0.151
0.175		1	1	3	45	0.5	0.151
0.168		1.3	1	3	45	0.5	0.151
0.168		1.6	1	3	45	0.5	0.151
0.15	9	1.9	1	3	45	0.5	0.151
0.119		0.4	2	3	45	0.5	0.151
0.12		0.7	2	3	45	0.5	0.151
0.119		1	2	3	45	0.5	0.151
0.119		1.3	2	3	45	0.5	0.151
0.118		1.6	2	3	45	0.5	0.151
0.102		1.9	2	3	45	0.5	0.151
0.099		0.4	3	3	45	0.5	0.151
0.105		0.7	3	3	45	0.5	0.151
0.102		1	3	3	45	0.5	0.151
0.103		1.3	3	3	45	0.5	0.151
0.104		1.6	3	3	45	0.5	0.151
0.081		1.9	3	3	45	0.5	0.151
0.072		0.4	4	3	45	0.5	0.151
0.068		0.7	4	3	45	0.5	0.151
0.066		1	4	3	45	0.5	0.151
0.064		1.3	4	3	45	0.5	0.151
0.061		1.6	4	3	45	0.5	0.151
0.055		1.9	4	3	45	0.5	0.151
0.31		0.4	0	3	45	1	0.151
0.312		0.7	0	3	45	1	0.151
0.311		1	0	3	45	1	0.151
0.311		1.3	0	3	45	1	0.151
0.308		1.6	0	3	45	1	0.151
0.275		1.9	0	3	45	1	0.151
0.248		0.4	0.5	3	45	1	0.151
0.247		0.7	0.5	3	45	1	0.151
0.246		1	0.5	3	45	1	0.151
0.245		1.3	0.5	3	45	1	0.151
0.238		1.6	0.5	3	45	1	0.151
0.231		1.9	0.5	3	45	1	0.151
0.206		0.4	1	3	45	1	0.151
0.205		0.7	1	3	45	1	0.151
0.204		1	1	3	45	1	0.151
0.204		1.3	1	3	45	1	0.151
0.201		1.6	1	3	45	1	0.151
0.188	12	1.9	1	3	45	1	0.151
0.155		0.4	2	3	45	1	0.151
0.148		0.7	2	3	45	1	0.151
0.156		1	2	3	45	1	0.151

0.157		1.3	2	3	45	1	0.151
0.148		1.6	2	3	45	1	0.151
0.143		1.9	2	3	45	1	0.151
0.116		0.4	3	3	45	1	0.151
0.116		0.7	3	3	45	1	0.151
0.116		1	3	3	45	1	0.151
0.112		1.3	3	3	45	1	0.151
0.111		1.6	3	3	45	1	0.151
0.098		1.9	3	3	45	1	0.151
0.078		0.4	4	3	45	1	0.151
0.088		0.7	4	3	45	1	0.151
0.086		1	4	3	45	1	0.151
0.084		1.3	4	3	45	1	0.151
0.083		1.6	4	3	45	1	0.151
0.055		1.9	4	3	45	1	0.151
0.421		0.4	0	3	45	2	0.151
0.418		0.7	0	3	45	2	0.151
0.417		1	0	3	45	2	0.151
0.404		1.3	0	3	45	2	0.151
0.401		1.6	0	3	45	2	0.151
0.387		1.9	0	3	45	2	0.151
0.311		0.4	0.5	3	45	2	0.151
0.308		0.7	0.5	3	45	2	0.151
0.312		1	0.5	3	45	2	0.151
0.305		1.3	0.5	3	45	2	0.151
0.296		1.6	0.5	3	45	2	0.151
0.284		1.9	0.5	3	45	2	0.151
0.256		0.4	1	3	45	2	0.151
0.255		0.7	1	3	45	2	0.151
0.254		1	1	3	45	2	0.151
0.255		1.3	1	3	45	2	0.151
0.251		1.6	1	3	45	2	0.151
0.237	10	1.9	1	3	45	2	0.151
0.153		0.4	2	3	45	2	0.151
0.148		0.7	2	3	45	2	0.151
0.157		1	2	3	45	2	0.151
0.149		1.3	2	3	45	2	0.151
0.151		1.6	2	3	45	2	0.151
0.126		1.9	2	3	45	2	0.151
0.111		0.4	3	3	45	2	0.151
0.112		0.7	3	3	45	2	0.151
0.11		1	3	3	45	2	0.151
0.111		1.3	3	3	45	2	0.151
0.112		1.6	3	3	45	2	0.151
0.101		1.9	3	3	45	2	0.151
0.075		0.4	4	3	45	2	0.151
0.069		0.7	4	3	45	2	0.151
0.075		1	4	3	45	2	0.151

0.074			1.3	4	3	45	2	0.151
0.073			1.6	4	3	45	2	0.151
0.071			1.9	4	3	45	2	0.151
0.401			0.4	0	3	100	0.5	0.151
0.402			0.7	0	3	100	0.5	0.151
0.399			1	0	3	100	0.5	0.151
0.395			1.3	0	3	100	0.5	0.151
0.398			1.6	0	3	100	0.5	0.151
0.384			1.9	0	3	100	0.5	0.151
0.291			0.4	0.5	3	100	0.5	0.151
0.295			0.7	0.5	3	100	0.5	0.151
0.299			1	0.5	3	100	0.5	0.151
0.296			1.3	0.5	3	100	0.5	0.151
0.287			1.6	0.5	3	100	0.5	0.151
0.261			1.9	0.5	3	100	0.5	0.151
0.231			0.4	1	3	100	0.5	0.151
0.229			0.7	1	3	100	0.5	0.151
0.228			1	1	3	100	0.5	0.151
0.224			1.3	1	3	100	0.5	0.151
0.224			1.6	1	3	100	0.5	0.151
0.201	3	3	1.9	1	3	100	0.5	0.151
0.152			0.4	2	3	100	0.5	0.151
0.149			0.7	2	3	100	0.5	0.151
0.151			1	2	3	100	0.5	0.151
0.152			1.3	2	3	100	0.5	0.151
0.148			1.6	2	3	100	0.5	0.151
0.135			1.9	2	3	100	0.5	0.151
0.125			0.4	3	3	100	0.5	0.151
0.128			0.7	3	3	100	0.5	0.151
0.132			1	3	3	100	0.5	0.151
0.124			1.3	3	3	100	0.5	0.151
0.116			1.6	3	3	100	0.5	0.151
0.109			1.9	3	3	100	0.5	0.151
0.091			0.4	4	3	100	0.5	0.151
0.088			0.7	4	3	100	0.5	0.151
0.085			1	4	3	100	0.5	0.151
0.086			1.3	4	3	100	0.5	0.151
0.079			1.6	4	3	100	0.5	0.151
0.063			1.9	4	3	100	0.5	0.151
0.429			0.4	0	3	100	1	0.151
0.428			0.7	0	3	100	1	0.151
0.428			1	0	3	100	1	0.151
0.427			1.3	0	3	100	1	0.151
0.424			1.6	0	3	100	1	0.151
0.414			1.9	0	3	100	1	0.151
0.333			0.4	0.5	3	100	1	0.151
0.336			0.7	0.5	3	100	1	0.151
0.335			1	0.5	3	100	1	0.151

0.331		1.3	0.5	3	100	1	0.151
0.33		1.6	0.5	3	100	1	0.151
0.298		1.9	0.5	3	100	1	0.151
0.237		0.4	1	3	100	1	0.151
0.237		0.7	1	3	100	1	0.151
0.238		1	1	3	100	1	0.151
0.239		1.3	1	3	100	1	0.151
0.233		1.6	1	3	100	1	0.151
0.211	2	1.9	1	3	100	1	0.151
0.156		0.4	2	3	100	1	0.151
0.156		0.7	2	3	100	1	0.151
0.155		1	2	3	100	1	0.151
0.152		1.3	2	3	100	1	0.151
0.151		1.6	2	3	100	1	0.151
0.137		1.9	2	3	100	1	0.151
0.109		0.4	3	3	100	1	0.151
0.107		0.7	3	3	100	1	0.151
0.106		1	3	3	100	1	0.151
0.106		1.3	3	3	100	1	0.151
0.102		1.6	3	3	100	1	0.151
0.088		1.9	3	3	100	1	0.151
0.077		0.4	4	3	100	1	0.151
0.075		0.7	4	3	100	1	0.151
0.074		1	4	3	100	1	0.151
0.071		1.3	4	3	100	1	0.151
0.071		1.6	4	3	100	1	0.151
0.052		1.9	4	3	100	1	0.151
0.148		0.4	0	5	33	0.5	0.151
0.154		0.7	0	5	33	0.5	0.151
0.151		1	0	5	33	0.5	0.151
0.152		1.3	0	5	33	0.5	0.151
0.148		1.6	0	5	33	0.5	0.151
0.137		1.9	0	5	33	0.5	0.151
0.112		0.4	0.5	5	33	0.5	0.151
0.114		0.7	0.5	5	33	0.5	0.151
0.111		1	0.5	5	33	0.5	0.151
0.109		1.3	0.5	5	33	0.5	0.151
0.101		1.6	0.5	5	33	0.5	0.151
0.088		1.9	0.5	5	33	0.5	0.151
0.089		0.4	1	5	33	0.5	0.151
0.093		0.7	1	5	33	0.5	0.151
0.081		1	1	5	33	0.5	0.151
0.082		1.3	1	5	33	0.5	0.151
0.081		1.6	1	5	33	0.5	0.151
0.065	17	1.9	1	5	33	0.5	0.151
0.061		0.4	2	5	33	0.5	0.151
0.072		0.7	2	5	33	0.5	0.151
0.059		1	2	5	33	0.5	0.151

0.058		1.3	2	5	33	0.5	0.151
0.061		1.6	2	5	33	0.5	0.151
0.047		1.9	2	5	33	0.5	0.151
0.038		0.4	3	5	33	0.5	0.151
0.048		0.7	3	5	33	0.5	0.151
0.039		1	3	5	33	0.5	0.151
0.041		1.3	3	5	33	0.5	0.151
0.042		1.6	3	5	33	0.5	0.151
0.031		1.9	3	5	33	0.5	0.151
0.022		0.4	4	5	33	0.5	0.151
0.026		0.7	4	5	33	0.5	0.151
0.021		1	4	5	33	0.5	0.151
0.019		1.3	4	5	33	0.5	0.151
0.017		1.6	4	5	33	0.5	0.151
0.003		1.9	4	5	33	0.5	0.151
0.22		0.4	0	5	33	1	0.151
0.218		0.7	0	5	33	1	0.151
0.219		1	0	5	33	1	0.151
0.217		1.3	0	5	33	1	0.151
0.211		1.6	0	5	33	1	0.151
0.201		1.9	0	5	33	1	0.151
0.173		0.4	0.5	5	33	1	0.151
0.168		0.7	0.5	5	33	1	0.151
0.171		1	0.5	5	33	1	0.151
0.17		1.3	0.5	5	33	1	0.151
0.168		1.6	0.5	5	33	1	0.151
0.157		1.9	0.5	5	33	1	0.151
0.133		0.4	1	5	33	1	0.151
0.134		0.7	1	5	33	1	0.151
0.133		1	1	5	33	1	0.151
0.132		1.3	1	5	33	1	0.151
0.131		1.6	1	5	33	1	0.151
0.108	16	1.9	1	5	33	1	0.151
0.106		0.4	2	5	33	1	0.151
0.107		0.7	2	5	33	1	0.151
0.099		1	2	5	33	1	0.151
0.102		1.3	2	5	33	1	0.151
0.099		1.6	2	5	33	1	0.151
0.091		1.9	2	5	33	1	0.151
0.071		0.4	3	5	33	1	0.151
0.069		0.7	3	5	33	1	0.151
0.068		1	3	5	33	1	0.151
0.068		1.3	3	5	33	1	0.151
0.066		1.6	3	5	33	1	0.151
0.052		1.9	3	5	33	1	0.151
0.029		0.4	4	5	33	1	0.151
0.024		0.7	4	5	33	1	0.151
0.024		1	4	5	33	1	0.151

0.023		1.3	4	5	33	1	0.151
0.021		1.6	4	5	33	1	0.151
0.008		1.9	4	5	33	1	0.151
0.311		0.4	0	5	33	2	0.151
0.321		0.7	0	5	33	2	0.151
0.308		1	0	5	33	2	0.151
0.311		1.3	0	5	33	2	0.151
0.312		1.6	0	5	33	2	0.151
0.309		1.9	0	5	33	2	0.151
0.277		0.4	0.5	5	33	2	0.151
0.289		0.7	0.5	5	33	2	0.151
0.276		1	0.5	5	33	2	0.151
0.265		1.3	0.5	5	33	2	0.151
0.266		1.6	0.5	5	33	2	0.151
0.253		1.9	0.5	5	33	2	0.151
0.159		0.4	1	5	33	2	0.151
0.164		0.7	1	5	33	2	0.151
0.149		1	1	5	33	2	0.151
0.152		1.3	1	5	33	2	0.151
0.153		1.6	1	5	33	2	0.151
0.139	18 3	1.9	1	5	33	2	0.151
0.119		0.4	2	5	33	2	0.151
0.122		0.7	2	5	33	2	0.151
0.116		1	2	5	33	2	0.151
0.115		1.3	2	5	33	2	0.151
0.114		1.6	2	5	33	2	0.151
0.099		1.9	2	5	33	2	0.151
0.077		0.4	3	5	33	2	0.151
0.085		0.7	3	5	33	2	0.151
0.079		1	3	5	33	2	0.151
0.076		1.3	3	5	33	2	0.151
0.075		1.6	3	5	33	2	0.151
0.054		1.9	3	5	33	2	0.151
0.031		0.4	4	5	33	2	0.151
0.043		0.7	4	5	33	2	0.151
0.032		1	4	5	33	2	0.151
0.031		1.3	4	5	33	2	0.151
0.028		1.6	4	5	33	2	0.151
0.014		1.9	4	5	33	2	0.151
0.224		0.4	0	5	45	0.5	0.151
0.226		0.7	0	5	45	0.5	0.151
0.227		1	0	5	45	0.5	0.151
0.229		1.3	0	5	45	0.5	0.151
0.223		1.6	0	5	45	0.5	0.151
0.218		1.9	0	5	45	0.5	0.151
0.176		0.4	0.5	5	45	0.5	0.151
0.169		0.7	0.5	5	45	0.5	0.151
0.171		1	0.5	5	45	0.5	0.151

0.166		1.3	0.5	5	45	0.5	0.151
0.162		1.6	0.5	5	45	0.5	0.151
0.153		1.9	0.5	5	45	0.5	0.151
0.128		0.4	1	5	45	0.5	0.151
0.131		0.7	1	5	45	0.5	0.151
0.129		1	1	5	45	0.5	0.151
0.133		1.3	1	5	45	0.5	0.151
0.127		1.6	1	5	45	0.5	0.151
0.117	12	1.9	1	5	45	0.5	0.151
0.098		0.4	2	5	45	0.5	0.151
0.095		0.7	2	5	45	0.5	0.151
0.099		1	2	5	45	0.5	0.151
0.091		1.3	2	5	45	0.5	0.151
0.089		1.6	2	5	45	0.5	0.151
0.083		1.9	2	5	45	0.5	0.151
0.063		0.4	3	5	45	0.5	0.151
0.062		0.7	3	5	45	0.5	0.151
0.059		1	3	5	45	0.5	0.151
0.058		1.3	3	5	45	0.5	0.151
0.059		1.6	3	5	45	0.5	0.151
0.046		1.9	3	5	45	0.5	0.151
0.018		0.4	4	5	45	0.5	0.151
0.025		0.7	4	5	45	0.5	0.151
0.026		1	4	5	45	0.5	0.151
0.018		1.3	4	5	45	0.5	0.151
0.015		1.6	4	5	45	0.5	0.151
0.007		1.9	4	5	45	0.5	0.151
0.309		0.4	0	5	45	1	0.151
0.314		0.7	0	5	45	1	0.151
0.312		1	0	5	45	1	0.151
0.313		1.3	0	5	45	1	0.151
0.311		1.6	0	5	45	1	0.151
0.308		1.9	0	5	45	1	0.151
0.207		0.4	0.5	5	45	1	0.151
0.218		0.7	0.5	5	45	1	0.151
0.216		1	0.5	5	45	1	0.151
0.212		1.3	0.5	5	45	1	0.151
0.208		1.6	0.5	5	45	1	0.151
0.197		1.9	0.5	5	45	1	0.151
0.154		0.4	1	5	45	1	0.151
0.163		0.7	1	5	45	1	0.151
0.159		1	1	5	45	1	0.151
0.161		1.3	1	5	45	1	0.151
0.157		1.6	1	5	45	1	0.151
0.142	13	1.9	1	5	45	1	0.151
0.116		0.4	2	5	45	1	0.151
0.121		0.7	2	5	45	1	0.151
0.123		1	2	5	45	1	0.151

0.121		1.3	2	5	45	1	0.151
0.118		1.6	2	5	45	1	0.151
0.099		1.9	2	5	45	1	0.151
0.082		0.4	3	5	45	1	0.151
0.081		0.7	3	5	45	1	0.151
0.079		1	3	5	45	1	0.151
0.084		1.3	3	5	45	1	0.151
0.083		1.6	3	5	45	1	0.151
0.066		1.9	3	5	45	1	0.151
0.031		0.4	4	5	45	1	0.151
0.036		0.7	4	5	45	1	0.151
0.035		1	4	5	45	1	0.151
0.037		1.3	4	5	45	1	0.151
0.039		1.6	4	5	45	1	0.151
0.018		1.9	4	5	45	1	0.151
0.422		0.4	0	5	45	2	0.151
0.422		0.7	0	5	45	2	0.151
0.425		1	0	5	45	2	0.151
0.419		1.3	0	5	45	2	0.151
0.408		1.6	0	5	45	2	0.151
0.387		1.9	0	5	45	2	0.151
0.252		0.4	0.5	5	45	2	0.151
0.247		0.7	0.5	5	45	2	0.151
0.249		1	0.5	5	45	2	0.151
0.243		1.3	0.5	5	45	2	0.151
0.248		1.6	0.5	5	45	2	0.151
0.225		1.9	0.5	5	45	2	0.151
0.161		0.4	1	5	45	2	0.151
0.167		0.7	1	5	45	2	0.151
0.163		1	1	5	45	2	0.151
0.162		1.3	1	5	45	2	0.151
0.155		1.6	1	5	45	2	0.151
0.146	11 1	1.9	1	5	45	2	0.151
0.117		0.4	2	5	45	2	0.151
0.115		0.7	2	5	45	2	0.151
0.119		1	2	5	45	2	0.151
0.118		1.3	2	5	45	2	0.151
0.117		1.6	2	5	45	2	0.151
0.106		1.9	2	5	45	2	0.151
0.085		0.4	3	5	45	2	0.151
0.084		0.7	3	5	45	2	0.151
0.076		1	3	5	45	2	0.151
0.081		1.3	3	5	45	2	0.151
0.078		1.6	3	5	45	2	0.151
0.055		1.9	3	5	45	2	0.151
0.036		0.4	4	5	45	2	0.151
0.032		0.7	4	5	45	2	0.151
0.031		1	4	5	45	2	0.151

0.028		1.3	4	5	45	2	0.151
0.029		1.6	4	5	45	2	0.151
0.018		1.9	4	5	45	2	0.151
0.407		0.4	0	5	100	0.5	0.151
0.405		0.7	0	5	100	0.5	0.151
0.406		1	0	5	100	0.5	0.151
0.401		1.3	0	5	100	0.5	0.151
0.399		1.6	0	5	100	0.5	0.151
0.38		1.9	0	5	100	0.5	0.151
0.266		0.4	0.5	5	100	0.5	0.151
0.268		0.7	0.5	5	100	0.5	0.151
0.263		1	0.5	5	100	0.5	0.151
0.257		1.3	0.5	5	100	0.5	0.151
0.253		1.6	0.5	5	100	0.5	0.151
0.244		1.9	0.5	5	100	0.5	0.151
0.168		0.4	1	5	100	0.5	0.151
0.163		0.7	1	5	100	0.5	0.151
0.168		1	1	5	100	0.5	0.151
0.162		1.3	1	5	100	0.5	0.151
0.157		1.6	1	5	100	0.5	0.151
0.143	2 1	1.9	1	5	100	0.5	0.151
0.117		0.4	2	5	100	0.5	0.151
0.116		0.7	2	5	100	0.5	0.151
0.115		1	2	5	100	0.5	0.151
0.109		1.3	2	5	100	0.5	0.151
0.113		1.6	2	5	100	0.5	0.151
0.105		1.9	2	5	100	0.5	0.151
0.083		0.4	3	5	100	0.5	0.151
0.086		0.7	3	5	100	0.5	0.151
0.089		1	3	5	100	0.5	0.151
0.078		1.3	3	5	100	0.5	0.151
0.073		1.6	3	5	100	0.5	0.151
0.059		1.9	3	5	100	0.5	0.151
0.041		0.4	4	5	100	0.5	0.151
0.039		0.7	4	5	100	0.5	0.151
0.038		1	4	5	100	0.5	0.151
0.035		1.3	4	5	100	0.5	0.151
0.029		1.6	4	5	100	0.5	0.151
0.013		1.9	4	5	100	0.5	0.151
0.443		0.4	0	5	100	1	0.151
0.445		0.7	0	5	100	1	0.151
0.447		1	0	5	100	1	0.151
0.438		1.3	0	5	100	1	0.151
0.443		1.6	0	5	100	1	0.151
0.421		1.9	0	5	100	1	0.151
0.253		0.4	0.5	5	100	1	0.151
0.255		0.7	0.5	5	100	1	0.151
0.257		1	0.5	5	100	1	0.151

0.251			1.3	0.5	5	100	1	0.151
0.252			1.6	0.5	5	100	1	0.151
0.217			1.9	0.5	5	100	1	0.151
0.163			0.4	1	5	100	1	0.151
0.159			0.7	1	5	100	1	0.151
0.162			1	1	5	100	1	0.151
0.158			1.3	1	5	100	1	0.151
0.155			1.6	1	5	100	1	0.151
0.151	3	1	1.9	1	5	100	1	0.151
0.112			0.4	2	5	100	1	0.151
0.109			0.7	2	5	100	1	0.151
0.113			1	2	5	100	1	0.151
0.108			1.3	2	5	100	1	0.151
0.101			1.6	2	5	100	1	0.151
0.086			1.9	2	5	100	1	0.151
0.076			0.4	3	5	100	1	0.151
0.075			0.7	3	5	100	1	0.151
0.071			1	3	5	100	1	0.151
0.065			1.3	3	5	100	1	0.151
0.062			1.6	3	5	100	1	0.151
0.044			1.9	3	5	100	1	0.151
0.028			0.4	4	5	100	1	0.151
0.031			0.7	4	5	100	1	0.151
0.021			1	4	5	100	1	0.151
0.022			1.3	4	5	100	1	0.151
0.021			1.6	4	5	100	1	0.151
0.007			1.9	4	5	100	1	0.151
0.156			0.4	0	0	33	0.5	0.099
0.159			0.7	0	0	33	0.5	0.099
0.158			1	0	0	33	0.5	0.099
0.156			1.3	0	0	33	0.5	0.099
0.156			1.6	0	0	33	0.5	0.099
0.151			1.9	0	0	33	0.5	0.099
0.148			0.4	0.5	0	33	0.5	0.099
0.149			0.7	0.5	0	33	0.5	0.099
0.148			1	0.5	0	33	0.5	0.099
0.148			1.3	0.5	0	33	0.5	0.099
0.145			1.6	0.5	0	33	0.5	0.099
0.141			1.9	0.5	0	33	0.5	0.099
0.122			0.4	1	0	33	0.5	0.099
0.123			0.7	1	0	33	0.5	0.099
0.122			1	1	0	33	0.5	0.099
0.124			1.3	1	0	33	0.5	0.099
0.119			1.6	1	0	33	0.5	0.099
0.121	21	3	1.9	1	0	33	0.5	0.099
0.105			0.4	2	0	33	0.5	0.099
0.103			0.7	2	0	33	0.5	0.099
0.101			1	2	0	33	0.5	0.099

0.101		1.3	2	0	33	0.5	0.099
0.096		1.6	2	0	33	0.5	0.099
0.075		1.9	2	0	33	0.5	0.099
0.075		0.4	3	0	33	0.5	0.099
0.071		0.7	3	0	33	0.5	0.099
0.072		1	3	0	33	0.5	0.099
0.071		1.3	3	0	33	0.5	0.099
0.071		1.6	3	0	33	0.5	0.099
0.055		1.9	3	0	33	0.5	0.099
0.059		0.4	4	0	33	0.5	0.099
0.058		0.7	4	0	33	0.5	0.099
0.055		1	4	0	33	0.5	0.099
0.055		1.3	4	0	33	0.5	0.099
0.054		1.6	4	0	33	0.5	0.099
0.043		1.9	4	0	33	0.5	0.099
0.227		0.4	0	0	33	1	0.099
0.226		0.7	0	0	33	1	0.099
0.226		1	0	0	33	1	0.099
0.226		1.3	0	0	33	1	0.099
0.225		1.6	0	0	33	1	0.099
0.193		1.9	0	0	33	1	0.099
0.195		0.4	0.5	0	33	1	0.099
0.195		0.7	0.5	0	33	1	0.099
0.195		1	0.5	0	33	1	0.099
0.191		1.3	0.5	0	33	1	0.099
0.189		1.6	0.5	0	33	1	0.099
0.173		1.9	0.5	0	33	1	0.099
0.166		0.4	1	0	33	1	0.099
0.168		0.7	1	0	33	1	0.099
0.168		1	1	0	33	1	0.099
0.167		1.3	1	0	33	1	0.099
0.161		1.6	1	0	33	1	0.099
0.141	18	1.9	1	0	33	1	0.099
0.141		0.4	2	0	33	1	0.099
0.141		0.7	2	0	33	1	0.099
0.142		1	2	0	33	1	0.099
0.143		1.3	2	0	33	1	0.099
0.137		1.6	2	0	33	1	0.099
0.126		1.9	2	0	33	1	0.099
0.124		0.4	3	0	33	1	0.099
0.124		0.7	3	0	33	1	0.099
0.123		1	3	0	33	1	0.099
0.123		1.3	3	0	33	1	0.099
0.115		1.6	3	0	33	1	0.099
0.101		1.9	3	0	33	1	0.099
0.084		0.4	4	0	33	1	0.099
0.083		0.7	4	0	33	1	0.099
0.083		1	4	0	33	1	0.099

0.082			1.3	4	0	33	1	0.099
0.079			1.6	4	0	33	1	0.099
0.047			1.9	4	0	33	1	0.099
0.315			0.4	0	0	33	2	0.099
0.319			0.7	0	0	33	2	0.099
0.32			1	0	0	33	2	0.099
0.311			1.3	0	0	33	2	0.099
0.312			1.6	0	0	33	2	0.099
0.295			1.9	0	0	33	2	0.099
0.289			0.4	0.5	0	33	2	0.099
0.285			0.7	0.5	0	33	2	0.099
0.285			1	0.5	0	33	2	0.099
0.286			1.3	0.5	0	33	2	0.099
0.271			1.6	0.5	0	33	2	0.099
0.243			1.9	0.5	0	33	2	0.099
0.236			0.4	1	0	33	2	0.099
0.241			0.7	1	0	33	2	0.099
0.241			1	1	0	33	2	0.099
0.239			1.3	1	0	33	2	0.099
0.227			1.6	1	0	33	2	0.099
0.149	17	1	1.9	1	0	33	2	0.099
0.156			0.4	2	0	33	2	0.099
0.156			0.7	2	0	33	2	0.099
0.156			1	2	0	33	2	0.099
0.152			1.3	2	0	33	2	0.099
0.138			1.6	2	0	33	2	0.099
0.131			1.9	2	0	33	2	0.099
0.112			0.4	3	0	33	2	0.099
0.111			0.7	3	0	33	2	0.099
0.112			1	3	0	33	2	0.099
0.113			1.3	3	0	33	2	0.099
0.101			1.6	3	0	33	2	0.099
0.089			1.9	3	0	33	2	0.099
0.078			0.4	4	0	33	2	0.099
0.085			0.7	4	0	33	2	0.099
0.085			1	4	0	33	2	0.099
0.081			1.3	4	0	33	2	0.099
0.068			1.6	4	0	33	2	0.099
0.067			1.9	4	0	33	2	0.099
0.217			0.4	0	0	45	0.5	0.099
0.215			0.7	0	0	45	0.5	0.099
0.218			1	0	0	45	0.5	0.099
0.211			1.3	0	0	45	0.5	0.099
0.216			1.6	0	0	45	0.5	0.099
0.209			1.9	0	0	45	0.5	0.099
0.192			0.4	0.5	0	45	0.5	0.099
0.191			0.7	0.5	0	45	0.5	0.099
0.191			1	0.5	0	45	0.5	0.099

0.19			1.3	0.5	0	45	0.5	0.099
0.188			1.6	0.5	0	45	0.5	0.099
0.174			1.9	0.5	0	45	0.5	0.099
0.171			0.4	1	0	45	0.5	0.099
0.163			0.7	1	0	45	0.5	0.099
0.162			1	1	0	45	0.5	0.099
0.168			1.3	1	0	45	0.5	0.099
0.165			1.6	1	0	45	0.5	0.099
0.148	11	1	1.9	1	0	45	0.5	0.099
0.148			0.4	2	0	45	0.5	0.099
0.139			0.7	2	0	45	0.5	0.099
0.139			1	2	0	45	0.5	0.099
0.138			1.3	2	0	45	0.5	0.099
0.143			1.6	2	0	45	0.5	0.099
0.101			1.9	2	0	45	0.5	0.099
0.122			0.4	3	0	45	0.5	0.099
0.122			0.7	3	0	45	0.5	0.099
0.119			1	3	0	45	0.5	0.099
0.119			1.3	3	0	45	0.5	0.099
0.116			1.6	3	0	45	0.5	0.099
0.091			1.9	3	0	45	0.5	0.099
0.091			0.4	4	0	45	0.5	0.099
0.086			0.7	4	0	45	0.5	0.099
0.084			1	4	0	45	0.5	0.099
0.085			1.3	4	0	45	0.5	0.099
0.079			1.6	4	0	45	0.5	0.099
0.055			1.9	4	0	45	0.5	0.099
0.311			0.4	0	0	45	1	0.099
0.313			0.7	0	0	45	1	0.099
0.314			1	0	0	45	1	0.099
0.317			1.3	0	0	45	1	0.099
0.306			1.6	0	0	45	1	0.099
0.281			1.9	0	0	45	1	0.099
0.266			0.4	0.5	0	45	1	0.099
0.267			0.7	0.5	0	45	1	0.099
0.268			1	0.5	0	45	1	0.099
0.268			1.3	0.5	0	45	1	0.099
0.255			1.6	0.5	0	45	1	0.099
0.239			1.9	0.5	0	45	1	0.099
0.223			0.4	1	0	45	1	0.099
0.224			0.7	1	0	45	1	0.099
0.225			1	1	0	45	1	0.099
0.217			1.3	1	0	45	1	0.099
0.208			1.6	1	0	45	1	0.099
0.201	13	3	1.9	1	0	45	1	0.099
0.156			0.4	2	0	45	1	0.099
0.151			0.7	2	0	45	1	0.099
0.155			1	2	0	45	1	0.099

0.154		1.3	2	0	45	1	0.099
0.143		1.6	2	0	45	1	0.099
0.141		1.9	2	0	45	1	0.099
0.123		0.4	3	0	45	1	0.099
0.117		0.7	3	0	45	1	0.099
0.117		1	3	0	45	1	0.099
0.117		1.3	3	0	45	1	0.099
0.116		1.6	3	0	45	1	0.099
0.109		1.9	3	0	45	1	0.099
0.089		0.4	4	0	45	1	0.099
0.094		0.7	4	0	45	1	0.099
0.093		1	4	0	45	1	0.099
0.093		1.3	4	0	45	1	0.099
0.088		1.6	4	0	45	1	0.099
0.071		1.9	4	0	45	1	0.099
0.399		0.4	0	0	45	2	0.099
0.404		0.7	0	0	45	2	0.099
0.401		1	0	0	45	2	0.099
0.396		1.3	0	0	45	2	0.099
0.395		1.6	0	0	45	2	0.099
0.378		1.9	0	0	45	2	0.099
0.348		0.4	0.5	0	45	2	0.099
0.347		0.7	0.5	0	45	2	0.099
0.346		1	0.5	0	45	2	0.099
0.346		1.3	0.5	0	45	2	0.099
0.339		1.6	0.5	0	45	2	0.099
0.299		1.9	0.5	0	45	2	0.099
0.276		0.4	1	0	45	2	0.099
0.281		0.7	1	0	45	2	0.099
0.282		1	1	0	45	2	0.099
0.281		1.3	1	0	45	2	0.099
0.282		1.6	1	0	45	2	0.099
0.261	11 1	1.9	1	0	45	2	0.099
0.152		0.4	2	0	45	2	0.099
0.149		0.7	2	0	45	2	0.099
0.148		1	2	0	45	2	0.099
0.151		1.3	2	0	45	2	0.099
0.153		1.6	2	0	45	2	0.099
0.144		1.9	2	0	45	2	0.099
0.115		0.4	3	0	45	2	0.099
0.116		0.7	3	0	45	2	0.099
0.119		1	3	0	45	2	0.099
0.121		1.3	3	0	45	2	0.099
0.116		1.6	3	0	45	2	0.099
0.109		1.9	3	0	45	2	0.099
0.081		0.4	4	0	45	2	0.099
0.079		0.7	4	0	45	2	0.099
0.08		1	4	0	45	2	0.099

0.079		1.3	4	0	45	2	0.099
0.075		1.6	4	0	45	2	0.099
0.066		1.9	4	0	45	2	0.099
0.411		0.4	0	0	100	0.5	0.099
0.412		0.7	0	0	100	0.5	0.099
0.411		1	0	0	100	0.5	0.099
0.412		1.3	0	0	100	0.5	0.099
0.411		1.6	0	0	100	0.5	0.099
0.408		1.9	0	0	100	0.5	0.099
0.319		0.4	0.5	0	100	0.5	0.099
0.312		0.7	0.5	0	100	0.5	0.099
0.318		1	0.5	0	100	0.5	0.099
0.318		1.3	0.5	0	100	0.5	0.099
0.311		1.6	0.5	0	100	0.5	0.099
0.31		1.9	0.5	0	100	0.5	0.099
0.271		0.4	1	0	100	0.5	0.099
0.259		0.7	1	0	100	0.5	0.099
0.264		1	1	0	100	0.5	0.099
0.264		1.3	1	0	100	0.5	0.099
0.265		1.6	1	0	100	0.5	0.099
0.241	2 1	1.9	1	0	100	0.5	0.099
0.198		0.4	2	0	100	0.5	0.099
0.185		0.7	2	0	100	0.5	0.099
0.186		1	2	0	100	0.5	0.099
0.186		1.3	2	0	100	0.5	0.099
0.186		1.6	2	0	100	0.5	0.099
0.181		1.9	2	0	100	0.5	0.099
0.151		0.4	3	0	100	0.5	0.099
0.152		0.7	3	0	100	0.5	0.099
0.15		1	3	0	100	0.5	0.099
0.151		1.3	3	0	100	0.5	0.099
0.148		1.6	3	0	100	0.5	0.099
0.141		1.9	3	0	100	0.5	0.099
0.129		0.4	4	0	100	0.5	0.099
0.119		0.7	4	0	100	0.5	0.099
0.118		1	4	0	100	0.5	0.099
0.119		1.3	4	0	100	0.5	0.099
0.117		1.6	4	0	100	0.5	0.099
0.079		1.9	4	0	100	0.5	0.099
0.428		0.4	0	0	100	1	0.099
0.436		0.7	0	0	100	1	0.099
0.437		1	0	0	100	1	0.099
0.436		1.3	0	0	100	1	0.099
0.435		1.6	0	0	100	1	0.099
0.432		1.9	0	0	100	1	0.099
0.341		0.4	0.5	0	100	1	0.099
0.351		0.7	0.5	0	100	1	0.099
0.352		1	0.5	0	100	1	0.099

0.352		1.3	0.5	0	100	1	0.099
0.352		1.6	0.5	0	100	1	0.099
0.334		1.9	0.5	0	100	1	0.099
0.254		0.4	1	0	100	1	0.099
0.269		0.7	1	0	100	1	0.099
0.266		1	1	0	100	1	0.099
0.265		1.3	1	0	100	1	0.099
0.263		1.6	1	0	100	1	0.099
0.233	2	1.9	1	0	100	1	0.099
0.178		0.4	2	0	100	1	0.099
0.186		0.7	2	0	100	1	0.099
0.184		1	2	0	100	1	0.099
0.184		1.3	2	0	100	1	0.099
0.184		1.6	2	0	100	1	0.099
0.152		1.9	2	0	100	1	0.099
0.139		0.4	3	0	100	1	0.099
0.142		0.7	3	0	100	1	0.099
0.148		1	3	0	100	1	0.099
0.143		1.3	3	0	100	1	0.099
0.142		1.6	3	0	100	1	0.099
0.122		1.9	3	0	100	1	0.099
0.114		0.4	4	0	100	1	0.099
0.122		0.7	4	0	100	1	0.099
0.121		1	4	0	100	1	0.099
0.121		1.3	4	0	100	1	0.099
0.123		1.6	4	0	100	1	0.099
0.077		1.9	4	0	100	1	0.099
0.162		0.4	0	3	33	0.5	0.099
0.159		0.7	0	3	33	0.5	0.099
0.161		1	0	3	33	0.5	0.099
0.161		1.3	0	3	33	0.5	0.099
0.159		1.6	0	3	33	0.5	0.099
0.158		1.9	0	3	33	0.5	0.099
0.151		0.4	0.5	3	33	0.5	0.099
0.15		0.7	0.5	3	33	0.5	0.099
0.147		1	0.5	3	33	0.5	0.099
0.145		1.3	0.5	3	33	0.5	0.099
0.143		1.6	0.5	3	33	0.5	0.099
0.141		1.9	0.5	3	33	0.5	0.099
0.118		0.4	1	3	33	0.5	0.099
0.117		0.7	1	3	33	0.5	0.099
0.116		1	1	3	33	0.5	0.099
0.117		1.3	1	3	33	0.5	0.099
0.119		1.6	1	3	33	0.5	0.099
0.101	17	1.9	1	3	33	0.5	0.099
0.091		0.4	2	3	33	0.5	0.099
0.096		0.7	2	3	33	0.5	0.099
0.095		1	2	3	33	0.5	0.099

0.095		1.3	2	3	33	0.5	0.099
0.094		1.6	2	3	33	0.5	0.099
0.071		1.9	2	3	33	0.5	0.099
0.072		0.4	3	3	33	0.5	0.099
0.068		0.7	3	3	33	0.5	0.099
0.067		1	3	3	33	0.5	0.099
0.066		1.3	3	3	33	0.5	0.099
0.067		1.6	3	3	33	0.5	0.099
0.044		1.9	3	3	33	0.5	0.099
0.036		0.4	4	3	33	0.5	0.099
0.034		0.7	4	3	33	0.5	0.099
0.035		1	4	3	33	0.5	0.099
0.034		1.3	4	3	33	0.5	0.099
0.031		1.6	4	3	33	0.5	0.099
0.021		1.9	4	3	33	0.5	0.099
0.227		0.4	0	3	33	1	0.099
0.226		0.7	0	3	33	1	0.099
0.226		1	0	3	33	1	0.099
0.226		1.3	0	3	33	1	0.099
0.225		1.6	0	3	33	1	0.099
0.193		1.9	0	3	33	1	0.099
0.195		0.4	0.5	3	33	1	0.099
0.195		0.7	0.5	3	33	1	0.099
0.195		1	0.5	3	33	1	0.099
0.191		1.3	0.5	3	33	1	0.099
0.189		1.6	0.5	3	33	1	0.099
0.173		1.9	0.5	3	33	1	0.099
0.166		0.4	1	3	33	1	0.099
0.168		0.7	1	3	33	1	0.099
0.168		1	1	3	33	1	0.099
0.167		1.3	1	3	33	1	0.099
0.161		1.6	1	3	33	1	0.099
0.141	16	1.9	1	3	33	1	0.099
0.141		0.4	2	3	33	1	0.099
0.141		0.7	2	3	33	1	0.099
0.142		1	2	3	33	1	0.099
0.143		1.3	2	3	33	1	0.099
0.137		1.6	2	3	33	1	0.099
0.126		1.9	2	3	33	1	0.099
0.124		0.4	3	3	33	1	0.099
0.124		0.7	3	3	33	1	0.099
0.123		1	3	3	33	1	0.099
0.123		1.3	3	3	33	1	0.099
0.115		1.6	3	3	33	1	0.099
0.101		1.9	3	3	33	1	0.099
0.084		0.4	4	3	33	1	0.099
0.083		0.7	4	3	33	1	0.099
0.083		1	4	3	33	1	0.099

0.082			1.3	4	3	33	1	0.099
0.079			1.6	4	3	33	1	0.099
0.047			1.9	4	3	33	1	0.099
0.315			0.4	0	3	33	2	0.099
0.314			0.7	0	3	33	2	0.099
0.311			1	0	3	33	2	0.099
0.308			1.3	0	3	33	2	0.099
0.308			1.6	0	3	33	2	0.099
0.307			1.9	0	3	33	2	0.099
0.289			0.4	0.5	3	33	2	0.099
0.288			0.7	0.5	3	33	2	0.099
0.281			1	0.5	3	33	2	0.099
0.274			1.3	0.5	3	33	2	0.099
0.263			1.6	0.5	3	33	2	0.099
0.255			1.9	0.5	3	33	2	0.099
0.185			0.4	1	3	33	2	0.099
0.184			0.7	1	3	33	2	0.099
0.183			1	1	3	33	2	0.099
0.182			1.3	1	3	33	2	0.099
0.182			1.6	1	3	33	2	0.099
0.176	15	1	1.9	1	3	33	2	0.099
0.147			0.4	2	3	33	2	0.099
0.147			0.7	2	3	33	2	0.099
0.146			1	2	3	33	2	0.099
0.145			1.3	2	3	33	2	0.099
0.141			1.6	2	3	33	2	0.099
0.139			1.9	2	3	33	2	0.099
0.114			0.4	3	3	33	2	0.099
0.114			0.7	3	3	33	2	0.099
0.113			1	3	3	33	2	0.099
0.113			1.3	3	3	33	2	0.099
0.111			1.6	3	3	33	2	0.099
0.101			1.9	3	3	33	2	0.099
0.088			0.4	4	3	33	2	0.099
0.079			0.7	4	3	33	2	0.099
0.082			1	4	3	33	2	0.099
0.083			1.3	4	3	33	2	0.099
0.081			1.6	4	3	33	2	0.099
0.059			1.9	4	3	33	2	0.099
0.218			0.4	0	3	45	0.5	0.099
0.221			0.7	0	3	45	0.5	0.099
0.221			1	0	3	45	0.5	0.099
0.221			1.3	0	3	45	0.5	0.099
0.22			1.6	0	3	45	0.5	0.099
0.211			1.9	0	3	45	0.5	0.099
0.194			0.4	0.5	3	45	0.5	0.099
0.197			0.7	0.5	3	45	0.5	0.099
0.201			1	0.5	3	45	0.5	0.099

0.195		1.3	0.5	3	45	0.5	0.099
0.181		1.6	0.5	3	45	0.5	0.099
0.181		1.9	0.5	3	45	0.5	0.099
0.177		0.4	1	3	45	0.5	0.099
0.183		0.7	1	3	45	0.5	0.099
0.183		1	1	3	45	0.5	0.099
0.183		1.3	1	3	45	0.5	0.099
0.171		1.6	1	3	45	0.5	0.099
0.156	9	1.9	1	3	45	0.5	0.099
0.122		0.4	2	3	45	0.5	0.099
0.122		0.7	2	3	45	0.5	0.099
0.122		1	2	3	45	0.5	0.099
0.121		1.3	2	3	45	0.5	0.099
0.119		1.6	2	3	45	0.5	0.099
0.105		1.9	2	3	45	0.5	0.099
0.102		0.4	3	3	45	0.5	0.099
0.103		0.7	3	3	45	0.5	0.099
0.101		1	3	3	45	0.5	0.099
0.098		1.3	3	3	45	0.5	0.099
0.097		1.6	3	3	45	0.5	0.099
0.078		1.9	3	3	45	0.5	0.099
0.077		0.4	4	3	45	0.5	0.099
0.075		0.7	4	3	45	0.5	0.099
0.073		1	4	3	45	0.5	0.099
0.068		1.3	4	3	45	0.5	0.099
0.065		1.6	4	3	45	0.5	0.099
0.049		1.9	4	3	45	0.5	0.099
0.321		0.4	0	3	45	1	0.099
0.316		0.7	0	3	45	1	0.099
0.316		1	0	3	45	1	0.099
0.315		1.3	0	3	45	1	0.099
0.311		1.6	0	3	45	1	0.099
0.287		1.9	0	3	45	1	0.099
0.259		0.4	0.5	3	45	1	0.099
0.255		0.7	0.5	3	45	1	0.099
0.257		1	0.5	3	45	1	0.099
0.253		1.3	0.5	3	45	1	0.099
0.251		1.6	0.5	3	45	1	0.099
0.244		1.9	0.5	3	45	1	0.099
0.217		0.4	1	3	45	1	0.099
0.211		0.7	1	3	45	1	0.099
0.209		1	1	3	45	1	0.099
0.213		1.3	1	3	45	1	0.099
0.204		1.6	1	3	45	1	0.099
0.196	13	1.9	1	3	45	1	0.099
0.162		0.4	2	3	45	1	0.099
0.155		0.7	2	3	45	1	0.099
0.168		1	2	3	45	1	0.099

0.153		1.3	2	3	45	1	0.099
0.149		1.6	2	3	45	1	0.099
0.139		1.9	2	3	45	1	0.099
0.114		0.4	3	3	45	1	0.099
0.115		0.7	3	3	45	1	0.099
0.114		1	3	3	45	1	0.099
0.115		1.3	3	3	45	1	0.099
0.108		1.6	3	3	45	1	0.099
0.107		1.9	3	3	45	1	0.099
0.086		0.4	4	3	45	1	0.099
0.086		0.7	4	3	45	1	0.099
0.087		1	4	3	45	1	0.099
0.086		1.3	4	3	45	1	0.099
0.075		1.6	4	3	45	1	0.099
0.048		1.9	4	3	45	1	0.099
0.417		0.4	0	3	45	2	0.099
0.419		0.7	0	3	45	2	0.099
0.421		1	0	3	45	2	0.099
0.409		1.3	0	3	45	2	0.099
0.415		1.6	0	3	45	2	0.099
0.393		1.9	0	3	45	2	0.099
0.322		0.4	0.5	3	45	2	0.099
0.306		0.7	0.5	3	45	2	0.099
0.315		1	0.5	3	45	2	0.099
0.316		1.3	0.5	3	45	2	0.099
0.315		1.6	0.5	3	45	2	0.099
0.291		1.9	0.5	3	45	2	0.099
0.257		0.4	1	3	45	2	0.099
0.256		0.7	1	3	45	2	0.099
0.256		1	1	3	45	2	0.099
0.255		1.3	1	3	45	2	0.099
0.259		1.6	1	3	45	2	0.099
0.241	10	1.9	1	3	45	2	0.099
0.149		0.4	2	3	45	2	0.099
0.148		0.7	2	3	45	2	0.099
0.148		1	2	3	45	2	0.099
0.148		1.3	2	3	45	2	0.099
0.146		1.6	2	3	45	2	0.099
0.131		1.9	2	3	45	2	0.099
0.108		0.4	3	3	45	2	0.099
0.109		0.7	3	3	45	2	0.099
0.11		1	3	3	45	2	0.099
0.109		1.3	3	3	45	2	0.099
0.108		1.6	3	3	45	2	0.099
0.098		1.9	3	3	45	2	0.099
0.081		0.4	4	3	45	2	0.099
0.08		0.7	4	3	45	2	0.099
0.081		1	4	3	45	2	0.099

0.076			1.3	4	3	45	2	0.099
0.075			1.6	4	3	45	2	0.099
0.066			1.9	4	3	45	2	0.099
0.404			0.4	0	3	100	0.5	0.099
0.403			0.7	0	3	100	0.5	0.099
0.401			1	0	3	100	0.5	0.099
0.402			1.3	0	3	100	0.5	0.099
0.405			1.6	0	3	100	0.5	0.099
0.388			1.9	0	3	100	0.5	0.099
0.299			0.4	0.5	3	100	0.5	0.099
0.298			0.7	0.5	3	100	0.5	0.099
0.299			1	0.5	3	100	0.5	0.099
0.297			1.3	0.5	3	100	0.5	0.099
0.296			1.6	0.5	3	100	0.5	0.099
0.255			1.9	0.5	3	100	0.5	0.099
0.233			0.4	1	3	100	0.5	0.099
0.233			0.7	1	3	100	0.5	0.099
0.233			1	1	3	100	0.5	0.099
0.228			1.3	1	3	100	0.5	0.099
0.227			1.6	1	3	100	0.5	0.099
0.199	3	1	1.9	1	3	100	0.5	0.099
0.155			0.4	2	3	100	0.5	0.099
0.148			0.7	2	3	100	0.5	0.099
0.148			1	2	3	100	0.5	0.099
0.149			1.3	2	3	100	0.5	0.099
0.152			1.6	2	3	100	0.5	0.099
0.131			1.9	2	3	100	0.5	0.099
0.121			0.4	3	3	100	0.5	0.099
0.119			0.7	3	3	100	0.5	0.099
0.126			1	3	3	100	0.5	0.099
0.127			1.3	3	3	100	0.5	0.099
0.122			1.6	3	3	100	0.5	0.099
0.103			1.9	3	3	100	0.5	0.099
0.088			0.4	4	3	100	0.5	0.099
0.087			0.7	4	3	100	0.5	0.099
0.086			1	4	3	100	0.5	0.099
0.082			1.3	4	3	100	0.5	0.099
0.077			1.6	4	3	100	0.5	0.099
0.055			1.9	4	3	100	0.5	0.099
0.436			0.4	0	3	100	1	0.099
0.431			0.7	0	3	100	1	0.099
0.432			1	0	3	100	1	0.099
0.432			1.3	0	3	100	1	0.099
0.431			1.6	0	3	100	1	0.099
0.417			1.9	0	3	100	1	0.099
0.341			0.4	0.5	3	100	1	0.099
0.335			0.7	0.5	3	100	1	0.099
0.334			1	0.5	3	100	1	0.099

0.336		1.3	0.5	3	100	1	0.099
0.332		1.6	0.5	3	100	1	0.099
0.301		1.9	0.5	3	100	1	0.099
0.244		0.4	1	3	100	1	0.099
0.246		0.7	1	3	100	1	0.099
0.245		1	1	3	100	1	0.099
0.246		1.3	1	3	100	1	0.099
0.244		1.6	1	3	100	1	0.099
0.218	2	1.9	1	3	100	1	0.099
0.162		0.4	2	3	100	1	0.099
0.153		0.7	2	3	100	1	0.099
0.152		1	2	3	100	1	0.099
0.157		1.3	2	3	100	1	0.099
0.158		1.6	2	3	100	1	0.099
0.149		1.9	2	3	100	1	0.099
0.111		0.4	3	3	100	1	0.099
0.106		0.7	3	3	100	1	0.099
0.104		1	3	3	100	1	0.099
0.109		1.3	3	3	100	1	0.099
0.104		1.6	3	3	100	1	0.099
0.093		1.9	3	3	100	1	0.099
0.072		0.4	4	3	100	1	0.099
0.08		0.7	4	3	100	1	0.099
0.071		1	4	3	100	1	0.099
0.069		1.3	4	3	100	1	0.099
0.071		1.6	4	3	100	1	0.099
0.06		1.9	4	3	100	1	0.099
0.151		0.4	0	5	33	0.5	0.099
0.147		0.7	0	5	33	0.5	0.099
0.149		1	0	5	33	0.5	0.099
0.146		1.3	0	5	33	0.5	0.099
0.148		1.6	0	5	33	0.5	0.099
0.141		1.9	0	5	33	0.5	0.099
0.119		0.4	0.5	5	33	0.5	0.099
0.115		0.7	0.5	5	33	0.5	0.099
0.114		1	0.5	5	33	0.5	0.099
0.107		1.3	0.5	5	33	0.5	0.099
0.108		1.6	0.5	5	33	0.5	0.099
0.091		1.9	0.5	5	33	0.5	0.099
0.095		0.4	1	5	33	0.5	0.099
0.088		0.7	1	5	33	0.5	0.099
0.087		1	1	5	33	0.5	0.099
0.085		1.3	1	5	33	0.5	0.099
0.084		1.6	1	5	33	0.5	0.099
0.071	17	1.9	1	5	33	0.5	0.099
0.069		0.4	2	5	33	0.5	0.099
0.062		0.7	2	5	33	0.5	0.099
0.061		1	2	5	33	0.5	0.099

0.063		1.3	2	5	33	0.5	0.099
0.059		1.6	2	5	33	0.5	0.099
0.052		1.9	2	5	33	0.5	0.099
0.046		0.4	3	5	33	0.5	0.099
0.044		0.7	3	5	33	0.5	0.099
0.043		1	3	5	33	0.5	0.099
0.043		1.3	3	5	33	0.5	0.099
0.042		1.6	3	5	33	0.5	0.099
0.033		1.9	3	5	33	0.5	0.099
0.029		0.4	4	5	33	0.5	0.099
0.021		0.7	4	5	33	0.5	0.099
0.021		1	4	5	33	0.5	0.099
0.021		1.3	4	5	33	0.5	0.099
0.014		1.6	4	5	33	0.5	0.099
0.007		1.9	4	5	33	0.5	0.099
0.223		0.4	0	5	33	1	0.099
0.221		0.7	0	5	33	1	0.099
0.222		1	0	5	33	1	0.099
0.223		1.3	0	5	33	1	0.099
0.219		1.6	0	5	33	1	0.099
0.208		1.9	0	5	33	1	0.099
0.177		0.4	0.5	5	33	1	0.099
0.181		0.7	0.5	5	33	1	0.099
0.176		1	0.5	5	33	1	0.099
0.175		1.3	0.5	5	33	1	0.099
0.174		1.6	0.5	5	33	1	0.099
0.161		1.9	0.5	5	33	1	0.099
0.134		0.4	1	5	33	1	0.099
0.131		0.7	1	5	33	1	0.099
0.131		1	1	5	33	1	0.099
0.129		1.3	1	5	33	1	0.099
0.136		1.6	1	5	33	1	0.099
0.111	16	1.9	1	5	33	1	0.099
0.105		0.4	2	5	33	1	0.099
0.109		0.7	2	5	33	1	0.099
0.105		1	2	5	33	1	0.099
0.103		1.3	2	5	33	1	0.099
0.101		1.6	2	5	33	1	0.099
0.094		1.9	2	5	33	1	0.099
0.077		0.4	3	5	33	1	0.099
0.069		0.7	3	5	33	1	0.099
0.072		1	3	5	33	1	0.099
0.071		1.3	3	5	33	1	0.099
0.07		1.6	3	5	33	1	0.099
0.055		1.9	3	5	33	1	0.099
0.028		0.4	4	5	33	1	0.099
0.031		0.7	4	5	33	1	0.099
0.024		1	4	5	33	1	0.099

0.023		1.3	4	5	33	1	0.099
0.019		1.6	4	5	33	1	0.099
0.011		1.9	4	5	33	1	0.099
0.331		0.4	0	5	33	2	0.099
0.324		0.7	0	5	33	2	0.099
0.325		1	0	5	33	2	0.099
0.321		1.3	0	5	33	2	0.099
0.323		1.6	0	5	33	2	0.099
0.318		1.9	0	5	33	2	0.099
0.291		0.4	0.5	5	33	2	0.099
0.286		0.7	0.5	5	33	2	0.099
0.284		1	0.5	5	33	2	0.099
0.281		1.3	0.5	5	33	2	0.099
0.275		1.6	0.5	5	33	2	0.099
0.264		1.9	0.5	5	33	2	0.099
0.171		0.4	1	5	33	2	0.099
0.159		0.7	1	5	33	2	0.099
0.155		1	1	5	33	2	0.099
0.157		1.3	1	5	33	2	0.099
0.151		1.6	1	5	33	2	0.099
0.146	18	1.9	1	5	33	2	0.099
0.127		0.4	2	5	33	2	0.099
0.119		0.7	2	5	33	2	0.099
0.121		1	2	5	33	2	0.099
0.117		1.3	2	5	33	2	0.099
0.111		1.6	2	5	33	2	0.099
0.102		1.9	2	5	33	2	0.099
0.091		0.4	3	5	33	2	0.099
0.075		0.7	3	5	33	2	0.099
0.079		1	3	5	33	2	0.099
0.077		1.3	3	5	33	2	0.099
0.076		1.6	3	5	33	2	0.099
0.061		1.9	3	5	33	2	0.099
0.042		0.4	4	5	33	2	0.099
0.036		0.7	4	5	33	2	0.099
0.033		1	4	5	33	2	0.099
0.029		1.3	4	5	33	2	0.099
0.029		1.6	4	5	33	2	0.099
0.011		1.9	4	5	33	2	0.099
0.236		0.4	0	5	45	0.5	0.099
0.233		0.7	0	5	45	0.5	0.099
0.237		1	0	5	45	0.5	0.099
0.233		1.3	0	5	45	0.5	0.099
0.233		1.6	0	5	45	0.5	0.099
0.234		1.9	0	5	45	0.5	0.099
0.181		0.4	0.5	5	45	0.5	0.099
0.173		0.7	0.5	5	45	0.5	0.099
0.172		1	0.5	5	45	0.5	0.099

0.168		1.3	0.5	5	45	0.5	0.099
0.163		1.6	0.5	5	45	0.5	0.099
0.159		1.9	0.5	5	45	0.5	0.099
0.132		0.4	1	5	45	0.5	0.099
0.131		0.7	1	5	45	0.5	0.099
0.124		1	1	5	45	0.5	0.099
0.135		1.3	1	5	45	0.5	0.099
0.125		1.6	1	5	45	0.5	0.099
0.119	12	1.9	1	5	45	0.5	0.099
0.095		0.4	2	5	45	0.5	0.099
0.099		0.7	2	5	45	0.5	0.099
0.098		1	2	5	45	0.5	0.099
0.102		1.3	2	5	45	0.5	0.099
0.087		1.6	2	5	45	0.5	0.099
0.083		1.9	2	5	45	0.5	0.099
0.06		0.4	3	5	45	0.5	0.099
0.066		0.7	3	5	45	0.5	0.099
0.055		1	3	5	45	0.5	0.099
0.068		1.3	3	5	45	0.5	0.099
0.052		1.6	3	5	45	0.5	0.099
0.041		1.9	3	5	45	0.5	0.099
0.022		0.4	4	5	45	0.5	0.099
0.023		0.7	4	5	45	0.5	0.099
0.021		1	4	5	45	0.5	0.099
0.029		1.3	4	5	45	0.5	0.099
0.019		1.6	4	5	45	0.5	0.099
0.009		1.9	4	5	45	0.5	0.099
0.326		0.4	0	5	45	1	0.099
0.322		0.7	0	5	45	1	0.099
0.323		1	0	5	45	1	0.099
0.327		1.3	0	5	45	1	0.099
0.321		1.6	0	5	45	1	0.099
0.319		1.9	0	5	45	1	0.099
0.221		0.4	0.5	5	45	1	0.099
0.229		0.7	0.5	5	45	1	0.099
0.228		1	0.5	5	45	1	0.099
0.224		1.3	0.5	5	45	1	0.099
0.216		1.6	0.5	5	45	1	0.099
0.205		1.9	0.5	5	45	1	0.099
0.161		0.4	1	5	45	1	0.099
0.157		0.7	1	5	45	1	0.099
0.158		1	1	5	45	1	0.099
0.159		1.3	1	5	45	1	0.099
0.161		1.6	1	5	45	1	0.099
0.144	13	1.9	1	5	45	1	0.099
0.119		0.4	2	5	45	1	0.099
0.117		0.7	2	5	45	1	0.099
0.118		1	2	5	45	1	0.099

0.116		1.3	2	5	45	1	0.099
0.113		1.6	2	5	45	1	0.099
0.107		1.9	2	5	45	1	0.099
0.088		0.4	3	5	45	1	0.099
0.083		0.7	3	5	45	1	0.099
0.079		1	3	5	45	1	0.099
0.085		1.3	3	5	45	1	0.099
0.085		1.6	3	5	45	1	0.099
0.071		1.9	3	5	45	1	0.099
0.044		0.4	4	5	45	1	0.099
0.039		0.7	4	5	45	1	0.099
0.037		1	4	5	45	1	0.099
0.031		1.3	4	5	45	1	0.099
0.027		1.6	4	5	45	1	0.099
0.021		1.9	4	5	45	1	0.099
0.431		0.4	0	5	45	2	0.099
0.424		0.7	0	5	45	2	0.099
0.425		1	0	5	45	2	0.099
0.421		1.3	0	5	45	2	0.099
0.406		1.6	0	5	45	2	0.099
0.4		1.9	0	5	45	2	0.099
0.261		0.4	0.5	5	45	2	0.099
0.254		0.7	0.5	5	45	2	0.099
0.255		1	0.5	5	45	2	0.099
0.256		1.3	0.5	5	45	2	0.099
0.251		1.6	0.5	5	45	2	0.099
0.239		1.9	0.5	5	45	2	0.099
0.173		0.4	1	5	45	2	0.099
0.163		0.7	1	5	45	2	0.099
0.162		1	1	5	45	2	0.099
0.159		1.3	1	5	45	2	0.099
0.163		1.6	1	5	45	2	0.099
0.152	11	1.9	1	5	45	2	0.099
0.121	1	0.4	2	5	45	2	0.099
0.119		0.7	2	5	45	2	0.099
0.114		1	2	5	45	2	0.099
0.115		1.3	2	5	45	2	0.099
0.116		1.6	2	5	45	2	0.099
0.104		1.9	2	5	45	2	0.099
0.083		0.4	3	5	45	2	0.099
0.079		0.7	3	5	45	2	0.099
0.081		1	3	5	45	2	0.099
0.083		1.3	3	5	45	2	0.099
0.082		1.6	3	5	45	2	0.099
0.056		1.9	3	5	45	2	0.099
0.033		0.4	4	5	45	2	0.099
0.036		0.7	4	5	45	2	0.099
0.037		1	4	5	45	2	0.099

0.025			1.3	4	5	45	2	0.099
0.024			1.6	4	5	45	2	0.099
0.021			1.9	4	5	45	2	0.099
0.423			0.4	0	5	100	0.5	0.099
0.419			0.7	0	5	100	0.5	0.099
0.411			1	0	5	100	0.5	0.099
0.408			1.3	0	5	100	0.5	0.099
0.402			1.6	0	5	100	0.5	0.099
0.395			1.9	0	5	100	0.5	0.099
0.272			0.4	0.5	5	100	0.5	0.099
0.269			0.7	0.5	5	100	0.5	0.099
0.271			1	0.5	5	100	0.5	0.099
0.266			1.3	0.5	5	100	0.5	0.099
0.261			1.6	0.5	5	100	0.5	0.099
0.253			1.9	0.5	5	100	0.5	0.099
0.165			0.4	1	5	100	0.5	0.099
0.166			0.7	1	5	100	0.5	0.099
0.177			1	1	5	100	0.5	0.099
0.169			1.3	1	5	100	0.5	0.099
0.163			1.6	1	5	100	0.5	0.099
0.152	2	1	1.9	1	5	100	0.5	0.099
0.122			0.4	2	5	100	0.5	0.099
0.115			0.7	2	5	100	0.5	0.099
0.116			1	2	5	100	0.5	0.099
0.117			1.3	2	5	100	0.5	0.099
0.112			1.6	2	5	100	0.5	0.099
0.106			1.9	2	5	100	0.5	0.099
0.088			0.4	3	5	100	0.5	0.099
0.083			0.7	3	5	100	0.5	0.099
0.085			1	3	5	100	0.5	0.099
0.083			1.3	3	5	100	0.5	0.099
0.082			1.6	3	5	100	0.5	0.099
0.068			1.9	3	5	100	0.5	0.099
0.038			0.4	4	5	100	0.5	0.099
0.037			0.7	4	5	100	0.5	0.099
0.035			1	4	5	100	0.5	0.099
0.036			1.3	4	5	100	0.5	0.099
0.022			1.6	4	5	100	0.5	0.099
0.017			1.9	4	5	100	0.5	0.099
0.441			0.4	0	5	100	1	0.099
0.439			0.7	0	5	100	1	0.099
0.445			1	0	5	100	1	0.099
0.444			1.3	0	5	100	1	0.099
0.442			1.6	0	5	100	1	0.099
0.436			1.9	0	5	100	1	0.099
0.269			0.4	0.5	5	100	1	0.099
0.268			0.7	0.5	5	100	1	0.099
0.263			1	0.5	5	100	1	0.099

0.264		1.3	0.5	5	100	1	0.099
0.261		1.6	0.5	5	100	1	0.099
0.232		1.9	0.5	5	100	1	0.099
0.171		0.4	1	5	100	1	0.099
0.178		0.7	1	5	100	1	0.099
0.172		1	1	5	100	1	0.099
0.169		1.3	1	5	100	1	0.099
0.168		1.6	1	5	100	1	0.099
0.163	4	1.9	1	5	100	1	0.099
0.111		0.4	2	5	100	1	0.099
0.119		0.7	2	5	100	1	0.099
0.115		1	2	5	100	1	0.099
0.115		1.3	2	5	100	1	0.099
0.114		1.6	2	5	100	1	0.099
0.095		1.9	2	5	100	1	0.099
0.077		0.4	3	5	100	1	0.099
0.074		0.7	3	5	100	1	0.099
0.077		1	3	5	100	1	0.099
0.076		1.3	3	5	100	1	0.099
0.068		1.6	3	5	100	1	0.099
0.059		1.9	3	5	100	1	0.099
0.027		0.4	4	5	100	1	0.099
0.026		0.7	4	5	100	1	0.099
0.025		1	4	5	100	1	0.099
0.022		1.3	4	5	100	1	0.099
0.019		1.6	4	5	100	1	0.099
0.009		1.9	4	5	100	1	0.099
0.151		0.4	0	0	33	0.5	0.047
0.156		0.7	0	0	33	0.5	0.047
0.162		1	0	0	33	0.5	0.047
0.161		1.3	0	0	33	0.5	0.047
0.157		1.6	0	0	33	0.5	0.047
0.159		1.9	0	0	33	0.5	0.047
0.145		0.4	0.5	0	33	0.5	0.047
0.143		0.7	0.5	0	33	0.5	0.047
0.145		1	0.5	0	33	0.5	0.047
0.148		1.3	0.5	0	33	0.5	0.047
0.141		1.6	0.5	0	33	0.5	0.047
0.142		1.9	0.5	0	33	0.5	0.047
0.119		0.4	1	0	33	0.5	0.047
0.123		0.7	1	0	33	0.5	0.047
0.125		1	1	0	33	0.5	0.047
0.118		1.3	1	0	33	0.5	0.047
0.121		1.6	1	0	33	0.5	0.047
0.117	17	1.9	1	0	33	0.5	0.047
0.105		0.4	2	0	33	0.5	0.047
0.093		0.7	2	0	33	0.5	0.047
0.095		1	2	0	33	0.5	0.047

0.098		1.3	2	0	33	0.5	0.047
0.091		1.6	2	0	33	0.5	0.047
0.074		1.9	2	0	33	0.5	0.047
0.068		0.4	3	0	33	0.5	0.047
0.072		0.7	3	0	33	0.5	0.047
0.071		1	3	0	33	0.5	0.047
0.066		1.3	3	0	33	0.5	0.047
0.061		1.6	3	0	33	0.5	0.047
0.052		1.9	3	0	33	0.5	0.047
0.044		0.4	4	0	33	0.5	0.047
0.049		0.7	4	0	33	0.5	0.047
0.051		1	4	0	33	0.5	0.047
0.044		1.3	4	0	33	0.5	0.047
0.046		1.6	4	0	33	0.5	0.047
0.021		1.9	4	0	33	0.5	0.047
0.237		0.4	0	0	33	1	0.047
0.239		0.7	0	0	33	1	0.047
0.239		1	0	0	33	1	0.047
0.241		1.3	0	0	33	1	0.047
0.233		1.6	0	0	33	1	0.047
0.212		1.9	0	0	33	1	0.047
0.216		0.4	0.5	0	33	1	0.047
0.215		0.7	0.5	0	33	1	0.047
0.214		1	0.5	0	33	1	0.047
0.214		1.3	0.5	0	33	1	0.047
0.208		1.6	0.5	0	33	1	0.047
0.166		1.9	0.5	0	33	1	0.047
0.171		0.4	1	0	33	1	0.047
0.172		0.7	1	0	33	1	0.047
0.173		1	1	0	33	1	0.047
0.172		1.3	1	0	33	1	0.047
0.169		1.6	1	0	33	1	0.047
0.144	19	1.9	1	0	33	1	0.047
0.147		0.4	2	0	33	1	0.047
0.151		0.7	2	0	33	1	0.047
0.144		1	2	0	33	1	0.047
0.148		1.3	2	0	33	1	0.047
0.141		1.6	2	0	33	1	0.047
0.119		1.9	2	0	33	1	0.047
0.126		0.4	3	0	33	1	0.047
0.124		0.7	3	0	33	1	0.047
0.123		1	3	0	33	1	0.047
0.123		1.3	3	0	33	1	0.047
0.116		1.6	3	0	33	1	0.047
0.088		1.9	3	0	33	1	0.047
0.089		0.4	4	0	33	1	0.047
0.087		0.7	4	0	33	1	0.047
0.089		1	4	0	33	1	0.047

0.082			1.3	4	0	33	1	0.047
0.079			1.6	4	0	33	1	0.047
0.043			1.9	4	0	33	1	0.047
0.326			0.4	0	0	33	2	0.047
0.327			0.7	0	0	33	2	0.047
0.325			1	0	0	33	2	0.047
0.333			1.3	0	0	33	2	0.047
0.329			1.6	0	0	33	2	0.047
0.299			1.9	0	0	33	2	0.047
0.301			0.4	0.5	0	33	2	0.047
0.305			0.7	0.5	0	33	2	0.047
0.299			1	0.5	0	33	2	0.047
0.298			1.3	0.5	0	33	2	0.047
0.295			1.6	0.5	0	33	2	0.047
0.246			1.9	0.5	0	33	2	0.047
0.249			0.4	1	0	33	2	0.047
0.251			0.7	1	0	33	2	0.047
0.252			1	1	0	33	2	0.047
0.247			1.3	1	0	33	2	0.047
0.246			1.6	1	0	33	2	0.047
0.165	16	1	1.9	1	0	33	2	0.047
0.159			0.4	2	0	33	2	0.047
0.162			0.7	2	0	33	2	0.047
0.163			1	2	0	33	2	0.047
0.161			1.3	2	0	33	2	0.047
0.166			1.6	2	0	33	2	0.047
0.148			1.9	2	0	33	2	0.047
0.122			0.4	3	0	33	2	0.047
0.123			0.7	3	0	33	2	0.047
0.121			1	3	0	33	2	0.047
0.119			1.3	3	0	33	2	0.047
0.123			1.6	3	0	33	2	0.047
0.088			1.9	3	0	33	2	0.047
0.079			0.4	4	0	33	2	0.047
0.075			0.7	4	0	33	2	0.047
0.073			1	4	0	33	2	0.047
0.074			1.3	4	0	33	2	0.047
0.069			1.6	4	0	33	2	0.047
0.045			1.9	4	0	33	2	0.047
0.226			0.4	0	0	45	0.5	0.047
0.227			0.7	0	0	45	0.5	0.047
0.225			1	0	0	45	0.5	0.047
0.225			1.3	0	0	45	0.5	0.047
0.226			1.6	0	0	45	0.5	0.047
0.219			1.9	0	0	45	0.5	0.047
0.208			0.4	0.5	0	45	0.5	0.047
0.207			0.7	0.5	0	45	0.5	0.047
0.205			1	0.5	0	45	0.5	0.047

0.207			1.3	0.5	0	45	0.5	0.047
0.205			1.6	0.5	0	45	0.5	0.047
0.186			1.9	0.5	0	45	0.5	0.047
0.187			0.4	1	0	45	0.5	0.047
0.188			0.7	1	0	45	0.5	0.047
0.189			1	1	0	45	0.5	0.047
0.188			1.3	1	0	45	0.5	0.047
0.185			1.6	1	0	45	0.5	0.047
0.163	14	3	1.9	1	0	45	0.5	0.047
0.145			0.4	2	0	45	0.5	0.047
0.141			0.7	2	0	45	0.5	0.047
0.142			1	2	0	45	0.5	0.047
0.145			1.3	2	0	45	0.5	0.047
0.148			1.6	2	0	45	0.5	0.047
0.123			1.9	2	0	45	0.5	0.047
0.118			0.4	3	0	45	0.5	0.047
0.114			0.7	3	0	45	0.5	0.047
0.115			1	3	0	45	0.5	0.047
0.116			1.3	3	0	45	0.5	0.047
0.114			1.6	3	0	45	0.5	0.047
0.096			1.9	3	0	45	0.5	0.047
0.089			0.4	4	0	45	0.5	0.047
0.091			0.7	4	0	45	0.5	0.047
0.092			1	4	0	45	0.5	0.047
0.088			1.3	4	0	45	0.5	0.047
0.079			1.6	4	0	45	0.5	0.047
0.065			1.9	4	0	45	0.5	0.047
0.311			0.4	0	0	45	1	0.047
0.312			0.7	0	0	45	1	0.047
0.314			1	0	0	45	1	0.047
0.312			1.3	0	0	45	1	0.047
0.315			1.6	0	0	45	1	0.047
0.298			1.9	0	0	45	1	0.047
0.275			0.4	0.5	0	45	1	0.047
0.276			0.7	0.5	0	45	1	0.047
0.275			1	0.5	0	45	1	0.047
0.273			1.3	0.5	0	45	1	0.047
0.266			1.6	0.5	0	45	1	0.047
0.247			1.9	0.5	0	45	1	0.047
0.223			0.4	1	0	45	1	0.047
0.221			0.7	1	0	45	1	0.047
0.223			1	1	0	45	1	0.047
0.219			1.3	1	0	45	1	0.047
0.218			1.6	1	0	45	1	0.047
0.201	11	1	1.9	1	0	45	1	0.047
0.171			0.4	2	0	45	1	0.047
0.169			0.7	2	0	45	1	0.047
0.168			1	2	0	45	1	0.047

0.163		1.3	2	0	45	1	0.047
0.162		1.6	2	0	45	1	0.047
0.148		1.9	2	0	45	1	0.047
0.126		0.4	3	0	45	1	0.047
0.125		0.7	3	0	45	1	0.047
0.129		1	3	0	45	1	0.047
0.128		1.3	3	0	45	1	0.047
0.128		1.6	3	0	45	1	0.047
0.117		1.9	3	0	45	1	0.047
0.095		0.4	4	0	45	1	0.047
0.096		0.7	4	0	45	1	0.047
0.098		1	4	0	45	1	0.047
0.097		1.3	4	0	45	1	0.047
0.08		1.6	4	0	45	1	0.047
0.053		1.9	4	0	45	1	0.047
0.416		0.4	0	0	45	2	0.047
0.417		0.7	0	0	45	2	0.047
0.415		1	0	0	45	2	0.047
0.414		1.3	0	0	45	2	0.047
0.417		1.6	0	0	45	2	0.047
0.389		1.9	0	0	45	2	0.047
0.351		0.4	0.5	0	45	2	0.047
0.349		0.7	0.5	0	45	2	0.047
0.352		1	0.5	0	45	2	0.047
0.352		1.3	0.5	0	45	2	0.047
0.361		1.6	0.5	0	45	2	0.047
0.318		1.9	0.5	0	45	2	0.047
0.299		0.4	1	0	45	2	0.047
0.286		0.7	1	0	45	2	0.047
0.291		1	1	0	45	2	0.047
0.295		1.3	1	0	45	2	0.047
0.297		1.6	1	0	45	2	0.047
0.267	10	1.9	1	0	45	2	0.047
0.178		0.4	2	0	45	2	0.047
0.181		0.7	2	0	45	2	0.047
0.179		1	2	0	45	2	0.047
0.181		1.3	2	0	45	2	0.047
0.176		1.6	2	0	45	2	0.047
0.153		1.9	2	0	45	2	0.047
0.129		0.4	3	0	45	2	0.047
0.128		0.7	3	0	45	2	0.047
0.128		1	3	0	45	2	0.047
0.127		1.3	3	0	45	2	0.047
0.121		1.6	3	0	45	2	0.047
0.108		1.9	3	0	45	2	0.047
0.095		0.4	4	0	45	2	0.047
0.099		0.7	4	0	45	2	0.047
0.099		1	4	0	45	2	0.047

0.096			1.3	4	0	45	2	0.047
0.088			1.6	4	0	45	2	0.047
0.079			1.9	4	0	45	2	0.047
0.415			0.4	0	0	100	0.5	0.047
0.411			0.7	0	0	100	0.5	0.047
0.412			1	0	0	100	0.5	0.047
0.411			1.3	0	0	100	0.5	0.047
0.408			1.6	0	0	100	0.5	0.047
0.407			1.9	0	0	100	0.5	0.047
0.317			0.4	0.5	0	100	0.5	0.047
0.316			0.7	0.5	0	100	0.5	0.047
0.321			1	0.5	0	100	0.5	0.047
0.318			1.3	0.5	0	100	0.5	0.047
0.322			1.6	0.5	0	100	0.5	0.047
0.287			1.9	0.5	0	100	0.5	0.047
0.265			0.4	1	0	100	0.5	0.047
0.263			0.7	1	0	100	0.5	0.047
0.261			1	1	0	100	0.5	0.047
0.261			1.3	1	0	100	0.5	0.047
0.259			1.6	1	0	100	0.5	0.047
0.223	३	३	1.9	1	0	100	0.5	0.047
0.197			0.4	2	0	100	0.5	0.047
0.196			0.7	2	0	100	0.5	0.047
0.197			1	2	0	100	0.5	0.047
0.201			1.3	2	0	100	0.5	0.047
0.195			1.6	2	0	100	0.5	0.047
0.157			1.9	2	0	100	0.5	0.047
0.151			0.4	3	0	100	0.5	0.047
0.15			0.7	3	0	100	0.5	0.047
0.152			1	3	0	100	0.5	0.047
0.151			1.3	3	0	100	0.5	0.047
0.153			1.6	3	0	100	0.5	0.047
0.134			1.9	3	0	100	0.5	0.047
0.119			0.4	4	0	100	0.5	0.047
0.118			0.7	4	0	100	0.5	0.047
0.114			1	4	0	100	0.5	0.047
0.114			1.3	4	0	100	0.5	0.047
0.113			1.6	4	0	100	0.5	0.047
0.088			1.9	4	0	100	0.5	0.047
0.431			0.4	0	0	100	1	0.047
0.433			0.7	0	0	100	1	0.047
0.432			1	0	0	100	1	0.047
0.431			1.3	0	0	100	1	0.047
0.43			1.6	0	0	100	1	0.047
0.416			1.9	0	0	100	1	0.047
0.351			0.4	0.5	0	100	1	0.047
0.348			0.7	0.5	0	100	1	0.047
0.352			1	0.5	0	100	1	0.047

0.351		1.3	0.5	0	100	1	0.047
0.345		1.6	0.5	0	100	1	0.047
0.315		1.9	0.5	0	100	1	0.047
0.275		0.4	1	0	100	1	0.047
0.276		0.7	1	0	100	1	0.047
0.274		1	1	0	100	1	0.047
0.268		1.3	1	0	100	1	0.047
0.265		1.6	1	0	100	1	0.047
0.218	2	1.9	1	0	100	1	0.047
0.191		0.4	2	0	100	1	0.047
0.192		0.7	2	0	100	1	0.047
0.193		1	2	0	100	1	0.047
0.191		1.3	2	0	100	1	0.047
0.185		1.6	2	0	100	1	0.047
0.155		1.9	2	0	100	1	0.047
0.147		0.4	3	0	100	1	0.047
0.148		0.7	3	0	100	1	0.047
0.149		1	3	0	100	1	0.047
0.151		1.3	3	0	100	1	0.047
0.145		1.6	3	0	100	1	0.047
0.132		1.9	3	0	100	1	0.047
0.119		0.4	4	0	100	1	0.047
0.118		0.7	4	0	100	1	0.047
0.115		1	4	0	100	1	0.047
0.111		1.3	4	0	100	1	0.047
0.101		1.6	4	0	100	1	0.047
0.086		1.9	4	0	100	1	0.047
0.167		0.4	0	3	33	0.5	0.047
0.163		0.7	0	3	33	0.5	0.047
0.165		1	0	3	33	0.5	0.047
0.165		1.3	0	3	33	0.5	0.047
0.159		1.6	0	3	33	0.5	0.047
0.159		1.9	0	3	33	0.5	0.047
0.151		0.4	0.5	3	33	0.5	0.047
0.148		0.7	0.5	3	33	0.5	0.047
0.151		1	0.5	3	33	0.5	0.047
0.148		1.3	0.5	3	33	0.5	0.047
0.149		1.6	0.5	3	33	0.5	0.047
0.135		1.9	0.5	3	33	0.5	0.047
0.12		0.4	1	3	33	0.5	0.047
0.121		0.7	1	3	33	0.5	0.047
0.121		1	1	3	33	0.5	0.047
0.122		1.3	1	3	33	0.5	0.047
0.119		1.6	1	3	33	0.5	0.047
0.103	16	1.9	1	3	33	0.5	0.047
0.095		0.4	2	3	33	0.5	0.047
0.094		0.7	2	3	33	0.5	0.047
0.093		1	2	3	33	0.5	0.047

0.094		1.3	2	3	33	0.5	0.047
0.093		1.6	2	3	33	0.5	0.047
0.071		1.9	2	3	33	0.5	0.047
0.071		0.4	3	3	33	0.5	0.047
0.069		0.7	3	3	33	0.5	0.047
0.068		1	3	3	33	0.5	0.047
0.065		1.3	3	3	33	0.5	0.047
0.061		1.6	3	3	33	0.5	0.047
0.045		1.9	3	3	33	0.5	0.047
0.031		0.4	4	3	33	0.5	0.047
0.035		0.7	4	3	33	0.5	0.047
0.031		1	4	3	33	0.5	0.047
0.032		1.3	4	3	33	0.5	0.047
0.029		1.6	4	3	33	0.5	0.047
0.022		1.9	4	3	33	0.5	0.047
0.228		0.4	0	3	33	1	0.047
0.226		0.7	0	3	33	1	0.047
0.227		1	0	3	33	1	0.047
0.225		1.3	0	3	33	1	0.047
0.228		1.6	0	3	33	1	0.047
0.205		1.9	0	3	33	1	0.047
0.197		0.4	0.5	3	33	1	0.047
0.201		0.7	0.5	3	33	1	0.047
0.201		1	0.5	3	33	1	0.047
0.2		1.3	0.5	3	33	1	0.047
0.191		1.6	0.5	3	33	1	0.047
0.183		1.9	0.5	3	33	1	0.047
0.161		0.4	1	3	33	1	0.047
0.161		0.7	1	3	33	1	0.047
0.171		1	1	3	33	1	0.047
0.172		1.3	1	3	33	1	0.047
0.155		1.6	1	3	33	1	0.047
0.136	17	1.9	1	3	33	1	0.047
0.146		0.4	2	3	33	1	0.047
0.141		0.7	2	3	33	1	0.047
0.139		1	2	3	33	1	0.047
0.141		1.3	2	3	33	1	0.047
0.138		1.6	2	3	33	1	0.047
0.116		1.9	2	3	33	1	0.047
0.124		0.4	3	3	33	1	0.047
0.126		0.7	3	3	33	1	0.047
0.128		1	3	3	33	1	0.047
0.129		1.3	3	3	33	1	0.047
0.121		1.6	3	3	33	1	0.047
0.087		1.9	3	3	33	1	0.047
0.075		0.4	4	3	33	1	0.047
0.071		0.7	4	3	33	1	0.047
0.069		1	4	3	33	1	0.047

0.075			1.3	4	3	33	1	0.047
0.073			1.6	4	3	33	1	0.047
0.048			1.9	4	3	33	1	0.047
0.315			0.4	0	3	33	2	0.047
0.325			0.7	0	3	33	2	0.047
0.328			1	0	3	33	2	0.047
0.331			1.3	0	3	33	2	0.047
0.328			1.6	0	3	33	2	0.047
0.318			1.9	0	3	33	2	0.047
0.285			0.4	0.5	3	33	2	0.047
0.287			0.7	0.5	3	33	2	0.047
0.288			1	0.5	3	33	2	0.047
0.284			1.3	0.5	3	33	2	0.047
0.281			1.6	0.5	3	33	2	0.047
0.245			1.9	0.5	3	33	2	0.047
0.201			0.4	1	3	33	2	0.047
0.205			0.7	1	3	33	2	0.047
0.209			1	1	3	33	2	0.047
0.205			1.3	1	3	33	2	0.047
0.204			1.6	1	3	33	2	0.047
0.175	16	1	1.9	1	3	33	2	0.047
0.151			0.4	2	3	33	2	0.047
0.149			0.7	2	3	33	2	0.047
0.148			1	2	3	33	2	0.047
0.145			1.3	2	3	33	2	0.047
0.146			1.6	2	3	33	2	0.047
0.133			1.9	2	3	33	2	0.047
0.112			0.4	3	3	33	2	0.047
0.111			0.7	3	3	33	2	0.047
0.112			1	3	3	33	2	0.047
0.115			1.3	3	3	33	2	0.047
0.114			1.6	3	3	33	2	0.047
0.092			1.9	3	3	33	2	0.047
0.068			0.4	4	3	33	2	0.047
0.071			0.7	4	3	33	2	0.047
0.07			1	4	3	33	2	0.047
0.072			1.3	4	3	33	2	0.047
0.068			1.6	4	3	33	2	0.047
0.059			1.9	4	3	33	2	0.047
0.225			0.4	0	3	45	0.5	0.047
0.226			0.7	0	3	45	0.5	0.047
0.223			1	0	3	45	0.5	0.047
0.224			1.3	0	3	45	0.5	0.047
0.225			1.6	0	3	45	0.5	0.047
0.22			1.9	0	3	45	0.5	0.047
0.198			0.4	0.5	3	45	0.5	0.047
0.198			0.7	0.5	3	45	0.5	0.047
0.199			1	0.5	3	45	0.5	0.047

0.191		1.3	0.5	3	45	0.5	0.047
0.185		1.6	0.5	3	45	0.5	0.047
0.177		1.9	0.5	3	45	0.5	0.047
0.181		0.4	1	3	45	0.5	0.047
0.181		0.7	1	3	45	0.5	0.047
0.181		1	1	3	45	0.5	0.047
0.175		1.3	1	3	45	0.5	0.047
0.173		1.6	1	3	45	0.5	0.047
0.155	13	1.9	1	3	45	0.5	0.047
0.126		0.4	2	3	45	0.5	0.047
0.125		0.7	2	3	45	0.5	0.047
0.126		1	2	3	45	0.5	0.047
0.125		1.3	2	3	45	0.5	0.047
0.122		1.6	2	3	45	0.5	0.047
0.11		1.9	2	3	45	0.5	0.047
0.101		0.4	3	3	45	0.5	0.047
0.102		0.7	3	3	45	0.5	0.047
0.1		1	3	3	45	0.5	0.047
0.101		1.3	3	3	45	0.5	0.047
0.1		1.6	3	3	45	0.5	0.047
0.085		1.9	3	3	45	0.5	0.047
0.075		0.4	4	3	45	0.5	0.047
0.076		0.7	4	3	45	0.5	0.047
0.073		1	4	3	45	0.5	0.047
0.071		1.3	4	3	45	0.5	0.047
0.069		1.6	4	3	45	0.5	0.047
0.055		1.9	4	3	45	0.5	0.047
0.314		0.4	0	3	45	1	0.047
0.315		0.7	0	3	45	1	0.047
0.316		1	0	3	45	1	0.047
0.317		1.3	0	3	45	1	0.047
0.315		1.6	0	3	45	1	0.047
0.301		1.9	0	3	45	1	0.047
0.251		0.4	0.5	3	45	1	0.047
0.252		0.7	0.5	3	45	1	0.047
0.249		1	0.5	3	45	1	0.047
0.251		1.3	0.5	3	45	1	0.047
0.245		1.6	0.5	3	45	1	0.047
0.233		1.9	0.5	3	45	1	0.047
0.212		0.4	1	3	45	1	0.047
0.211		0.7	1	3	45	1	0.047
0.207		1	1	3	45	1	0.047
0.206		1.3	1	3	45	1	0.047
0.207		1.6	1	3	45	1	0.047
0.191	11	1.9	1	3	45	1	0.047
0.155		0.4	2	3	45	1	0.047
0.156		0.7	2	3	45	1	0.047
0.157		1	2	3	45	1	0.047

0.153		1.3	2	3	45	1	0.047
0.156		1.6	2	3	45	1	0.047
0.139		1.9	2	3	45	1	0.047
0.117		0.4	3	3	45	1	0.047
0.116		0.7	3	3	45	1	0.047
0.117		1	3	3	45	1	0.047
0.118		1.3	3	3	45	1	0.047
0.118		1.6	3	3	45	1	0.047
0.102		1.9	3	3	45	1	0.047
0.075		0.4	4	3	45	1	0.047
0.081		0.7	4	3	45	1	0.047
0.079		1	4	3	45	1	0.047
0.081		1.3	4	3	45	1	0.047
0.078		1.6	4	3	45	1	0.047
0.056		1.9	4	3	45	1	0.047
0.419		0.4	0	3	45	2	0.047
0.419		0.7	0	3	45	2	0.047
0.418		1	0	3	45	2	0.047
0.416		1.3	0	3	45	2	0.047
0.41		1.6	0	3	45	2	0.047
0.395		1.9	0	3	45	2	0.047
0.322		0.4	0.5	3	45	2	0.047
0.321		0.7	0.5	3	45	2	0.047
0.318		1	0.5	3	45	2	0.047
0.317		1.3	0.5	3	45	2	0.047
0.311		1.6	0.5	3	45	2	0.047
0.298		1.9	0.5	3	45	2	0.047
0.268		0.4	1	3	45	2	0.047
0.265		0.7	1	3	45	2	0.047
0.261		1	1	3	45	2	0.047
0.259		1.3	1	3	45	2	0.047
0.258		1.6	1	3	45	2	0.047
0.241	12	1.9	1	3	45	2	0.047
0.156		0.4	2	3	45	2	0.047
0.159		0.7	2	3	45	2	0.047
0.161		1	2	3	45	2	0.047
0.152		1.3	2	3	45	2	0.047
0.151		1.6	2	3	45	2	0.047
0.135		1.9	2	3	45	2	0.047
0.116		0.4	3	3	45	2	0.047
0.117		0.7	3	3	45	2	0.047
0.115		1	3	3	45	2	0.047
0.114		1.3	3	3	45	2	0.047
0.113		1.6	3	3	45	2	0.047
0.099		1.9	3	3	45	2	0.047
0.075		0.4	4	3	45	2	0.047
0.074		0.7	4	3	45	2	0.047
0.071		1	4	3	45	2	0.047

0.069			1.3	4	3	45	2	0.047
0.071			1.6	4	3	45	2	0.047
0.055			1.9	4	3	45	2	0.047
0.41			0.4	0	3	100	0.5	0.047
0.408			0.7	0	3	100	0.5	0.047
0.409			1	0	3	100	0.5	0.047
0.408			1.3	0	3	100	0.5	0.047
0.405			1.6	0	3	100	0.5	0.047
0.391			1.9	0	3	100	0.5	0.047
0.299			0.4	0.5	3	100	0.5	0.047
0.301			0.7	0.5	3	100	0.5	0.047
0.295			1	0.5	3	100	0.5	0.047
0.296			1.3	0.5	3	100	0.5	0.047
0.289			1.6	0.5	3	100	0.5	0.047
0.265			1.9	0.5	3	100	0.5	0.047
0.235			0.4	1	3	100	0.5	0.047
0.235			0.7	1	3	100	0.5	0.047
0.231			1	1	3	100	0.5	0.047
0.229			1.3	1	3	100	0.5	0.047
0.227			1.6	1	3	100	0.5	0.047
0.207	3	1	1.9	1	3	100	0.5	0.047
0.159			0.4	2	3	100	0.5	0.047
0.158			0.7	2	3	100	0.5	0.047
0.156			1	2	3	100	0.5	0.047
0.157			1.3	2	3	100	0.5	0.047
0.151			1.6	2	3	100	0.5	0.047
0.131			1.9	2	3	100	0.5	0.047
0.129			0.4	3	3	100	0.5	0.047
0.131			0.7	3	3	100	0.5	0.047
0.128			1	3	3	100	0.5	0.047
0.127			1.3	3	3	100	0.5	0.047
0.125			1.6	3	3	100	0.5	0.047
0.104			1.9	3	3	100	0.5	0.047
0.088			0.4	4	3	100	0.5	0.047
0.085			0.7	4	3	100	0.5	0.047
0.084			1	4	3	100	0.5	0.047
0.081			1.3	4	3	100	0.5	0.047
0.08			1.6	4	3	100	0.5	0.047
0.061			1.9	4	3	100	0.5	0.047
0.43			0.4	0	3	100	1	0.047
0.43			0.7	0	3	100	1	0.047
0.431			1	0	3	100	1	0.047
0.429			1.3	0	3	100	1	0.047
0.425			1.6	0	3	100	1	0.047
0.409			1.9	0	3	100	1	0.047
0.339			0.4	0.5	3	100	1	0.047
0.338			0.7	0.5	3	100	1	0.047
0.337			1	0.5	3	100	1	0.047

0.336			1.3	0.5	3	100	1	0.047
0.334			1.6	0.5	3	100	1	0.047
0.305			1.9	0.5	3	100	1	0.047
0.242			0.4	1	3	100	1	0.047
0.243			0.7	1	3	100	1	0.047
0.245			1	1	3	100	1	0.047
0.241			1.3	1	3	100	1	0.047
0.239			1.6	1	3	100	1	0.047
0.218	3	1	1.9	1	3	100	1	0.047
0.162			0.4	2	3	100	1	0.047
0.161			0.7	2	3	100	1	0.047
0.159			1	2	3	100	1	0.047
0.157			1.3	2	3	100	1	0.047
0.156			1.6	2	3	100	1	0.047
0.141			1.9	2	3	100	1	0.047
0.116			0.4	3	3	100	1	0.047
0.117			0.7	3	3	100	1	0.047
0.117			1	3	3	100	1	0.047
0.115			1.3	3	3	100	1	0.047
0.118			1.6	3	3	100	1	0.047
0.095			1.9	3	3	100	1	0.047
0.081			0.4	4	3	100	1	0.047
0.075			0.7	4	3	100	1	0.047
0.08			1	4	3	100	1	0.047
0.081			1.3	4	3	100	1	0.047
0.075			1.6	4	3	100	1	0.047
0.049			1.9	4	3	100	1	0.047
0.157			0.4	0	5	33	0.5	0.047
0.156			0.7	0	5	33	0.5	0.047
0.155			1	0	5	33	0.5	0.047
0.154			1.3	0	5	33	0.5	0.047
0.157			1.6	0	5	33	0.5	0.047
0.141			1.9	0	5	33	0.5	0.047
0.116			0.4	0.5	5	33	0.5	0.047
0.117			0.7	0.5	5	33	0.5	0.047
0.115			1	0.5	5	33	0.5	0.047
0.113			1.3	0.5	5	33	0.5	0.047
0.114			1.6	0.5	5	33	0.5	0.047
0.091			1.9	0.5	5	33	0.5	0.047
0.093			0.4	1	5	33	0.5	0.047
0.091			0.7	1	5	33	0.5	0.047
0.092			1	1	5	33	0.5	0.047
0.091			1.3	1	5	33	0.5	0.047
0.086			1.6	1	5	33	0.5	0.047
0.066	16	1	1.9	1	5	33	0.5	0.047
0.063			0.4	2	5	33	0.5	0.047
0.065			0.7	2	5	33	0.5	0.047
0.065			1	2	5	33	0.5	0.047

0.066		1.3	2	5	33	0.5	0.047
0.059		1.6	2	5	33	0.5	0.047
0.051		1.9	2	5	33	0.5	0.047
0.041		0.4	3	5	33	0.5	0.047
0.039		0.7	3	5	33	0.5	0.047
0.04		1	3	5	33	0.5	0.047
0.038		1.3	3	5	33	0.5	0.047
0.037		1.6	3	5	33	0.5	0.047
0.029		1.9	3	5	33	0.5	0.047
0.021		0.4	4	5	33	0.5	0.047
0.019		0.7	4	5	33	0.5	0.047
0.022		1	4	5	33	0.5	0.047
0.018		1.3	4	5	33	0.5	0.047
0.016		1.6	4	5	33	0.5	0.047
0.007		1.9	4	5	33	0.5	0.047
0.218		0.4	0	5	33	1	0.047
0.223		0.7	0	5	33	1	0.047
0.223		1	0	5	33	1	0.047
0.224		1.3	0	5	33	1	0.047
0.225		1.6	0	5	33	1	0.047
0.206		1.9	0	5	33	1	0.047
0.175		0.4	0.5	5	33	1	0.047
0.176		0.7	0.5	5	33	1	0.047
0.177		1	0.5	5	33	1	0.047
0.175		1.3	0.5	5	33	1	0.047
0.171		1.6	0.5	5	33	1	0.047
0.155		1.9	0.5	5	33	1	0.047
0.136		0.4	1	5	33	1	0.047
0.137		0.7	1	5	33	1	0.047
0.138		1	1	5	33	1	0.047
0.141		1.3	1	5	33	1	0.047
0.135		1.6	1	5	33	1	0.047
0.101	15	1.9	1	5	33	1	0.047
0.109	0	0.4	2	5	33	1	0.047
0.111		0.7	2	5	33	1	0.047
0.112		1	2	5	33	1	0.047
0.113		1.3	2	5	33	1	0.047
0.107		1.6	2	5	33	1	0.047
0.083		1.9	2	5	33	1	0.047
0.081		0.4	3	5	33	1	0.047
0.08		0.7	3	5	33	1	0.047
0.079		1	3	5	33	1	0.047
0.071		1.3	3	5	33	1	0.047
0.075		1.6	3	5	33	1	0.047
0.044		1.9	3	5	33	1	0.047
0.036		0.4	4	5	33	1	0.047
0.037		0.7	4	5	33	1	0.047
0.034		1	4	5	33	1	0.047

0.033			1.3	4	5	33	1	0.047
0.031			1.6	4	5	33	1	0.047
0.011			1.9	4	5	33	1	0.047
0.308			0.4	0	5	33	2	0.047
0.312			0.7	0	5	33	2	0.047
0.315			1	0	5	33	2	0.047
0.318			1.3	0	5	33	2	0.047
0.314			1.6	0	5	33	2	0.047
0.311			1.9	0	5	33	2	0.047
0.286			0.4	0.5	5	33	2	0.047
0.285			0.7	0.5	5	33	2	0.047
0.278			1	0.5	5	33	2	0.047
0.281			1.3	0.5	5	33	2	0.047
0.271			1.6	0.5	5	33	2	0.047
0.241			1.9	0.5	5	33	2	0.047
0.174			0.4	1	5	33	2	0.047
0.175			0.7	1	5	33	2	0.047
0.17			1	1	5	33	2	0.047
0.177			1.3	1	5	33	2	0.047
0.169			1.6	1	5	33	2	0.047
0.142	15	0	1.9	1	5	33	2	0.047
0.123			0.4	2	5	33	2	0.047
0.124			0.7	2	5	33	2	0.047
0.125			1	2	5	33	2	0.047
0.121			1.3	2	5	33	2	0.047
0.123			1.6	2	5	33	2	0.047
0.101			1.9	2	5	33	2	0.047
0.075			0.4	3	5	33	2	0.047
0.078			0.7	3	5	33	2	0.047
0.079			1	3	5	33	2	0.047
0.079			1.3	3	5	33	2	0.047
0.081			1.6	3	5	33	2	0.047
0.049			1.9	3	5	33	2	0.047
0.036			0.4	4	5	33	2	0.047
0.035			0.7	4	5	33	2	0.047
0.034			1	4	5	33	2	0.047
0.033			1.3	4	5	33	2	0.047
0.027			1.6	4	5	33	2	0.047
0.011			1.9	4	5	33	2	0.047
0.222			0.4	0	5	45	0.5	0.047
0.223			0.7	0	5	45	0.5	0.047
0.226			1	0	5	45	0.5	0.047
0.227			1.3	0	5	45	0.5	0.047
0.228			1.6	0	5	45	0.5	0.047
0.229			1.9	0	5	45	0.5	0.047
0.181			0.4	0.5	5	45	0.5	0.047
0.179			0.7	0.5	5	45	0.5	0.047
0.178			1	0.5	5	45	0.5	0.047

0.172			1.3	0.5	5	45	0.5	0.047
0.171			1.6	0.5	5	45	0.5	0.047
0.149			1.9	0.5	5	45	0.5	0.047
0.133			0.4	1	5	45	0.5	0.047
0.135			0.7	1	5	45	0.5	0.047
0.131			1	1	5	45	0.5	0.047
0.135			1.3	1	5	45	0.5	0.047
0.131			1.6	1	5	45	0.5	0.047
0.115	13	1	1.9	1	5	45	0.5	0.047
0.101			0.4	2	5	45	0.5	0.047
0.099			0.7	2	5	45	0.5	0.047
0.098			1	2	5	45	0.5	0.047
0.095			1.3	2	5	45	0.5	0.047
0.093			1.6	2	5	45	0.5	0.047
0.075			1.9	2	5	45	0.5	0.047
0.065			0.4	3	5	45	0.5	0.047
0.066			0.7	3	5	45	0.5	0.047
0.061			1	3	5	45	0.5	0.047
0.058			1.3	3	5	45	0.5	0.047
0.055			1.6	3	5	45	0.5	0.047
0.036			1.9	3	5	45	0.5	0.047
0.022			0.4	4	5	45	0.5	0.047
0.021			0.7	4	5	45	0.5	0.047
0.019			1	4	5	45	0.5	0.047
0.021			1.3	4	5	45	0.5	0.047
0.017			1.6	4	5	45	0.5	0.047
0.006			1.9	4	5	45	0.5	0.047
0.311			0.4	0	5	45	1	0.047
0.313			0.7	0	5	45	1	0.047
0.318			1	0	5	45	1	0.047
0.315			1.3	0	5	45	1	0.047
0.312			1.6	0	5	45	1	0.047
0.309			1.9	0	5	45	1	0.047
0.218			0.4	0.5	5	45	1	0.047
0.219			0.7	0.5	5	45	1	0.047
0.221			1	0.5	5	45	1	0.047
0.215			1.3	0.5	5	45	1	0.047
0.218			1.6	0.5	5	45	1	0.047
0.193			1.9	0.5	5	45	1	0.047
0.161			0.4	1	5	45	1	0.047
0.158			0.7	1	5	45	1	0.047
0.162			1	1	5	45	1	0.047
0.161			1.3	1	5	45	1	0.047
0.156			1.6	1	5	45	1	0.047
0.139	15	3	1.9	1	5	45	1	0.047
0.121			0.4	2	5	45	1	0.047
0.123			0.7	2	5	45	1	0.047
0.126			1	2	5	45	1	0.047

0.127		1.3	2	5	45	1	0.047
0.123		1.6	2	5	45	1	0.047
0.096		1.9	2	5	45	1	0.047
0.083		0.4	3	5	45	1	0.047
0.081		0.7	3	5	45	1	0.047
0.082		1	3	5	45	1	0.047
0.081		1.3	3	5	45	1	0.047
0.083		1.6	3	5	45	1	0.047
0.059		1.9	3	5	45	1	0.047
0.032		0.4	4	5	45	1	0.047
0.031		0.7	4	5	45	1	0.047
0.031		1	4	5	45	1	0.047
0.029		1.3	4	5	45	1	0.047
0.031		1.6	4	5	45	1	0.047
0.008		1.9	4	5	45	1	0.047
0.42		0.4	0	5	45	2	0.047
0.425		0.7	0	5	45	2	0.047
0.423		1	0	5	45	2	0.047
0.421		1.3	0	5	45	2	0.047
0.413		1.6	0	5	45	2	0.047
0.391		1.9	0	5	45	2	0.047
0.261		0.4	0.5	5	45	2	0.047
0.262		0.7	0.5	5	45	2	0.047
0.263		1	0.5	5	45	2	0.047
0.259		1.3	0.5	5	45	2	0.047
0.254		1.6	0.5	5	45	2	0.047
0.226		1.9	0.5	5	45	2	0.047
0.172		0.4	1	5	45	2	0.047
0.165		0.7	1	5	45	2	0.047
0.163		1	1	5	45	2	0.047
0.167		1.3	1	5	45	2	0.047
0.161		1.6	1	5	45	2	0.047
0.143	12	1.9	1	5	45	2	0.047
0.118		0.4	2	5	45	2	0.047
0.121		0.7	2	5	45	2	0.047
0.123		1	2	5	45	2	0.047
0.121		1.3	2	5	45	2	0.047
0.119		1.6	2	5	45	2	0.047
0.099		1.9	2	5	45	2	0.047
0.088		0.4	3	5	45	2	0.047
0.089		0.7	3	5	45	2	0.047
0.085		1	3	5	45	2	0.047
0.081		1.3	3	5	45	2	0.047
0.075		1.6	3	5	45	2	0.047
0.049		1.9	3	5	45	2	0.047
0.041		0.4	4	5	45	2	0.047
0.042		0.7	4	5	45	2	0.047
0.036		1	4	5	45	2	0.047

0.039			1.3	4	5	45	2	0.047
0.033			1.6	4	5	45	2	0.047
0.009			1.9	4	5	45	2	0.047
0.408			0.4	0	5	100	0.5	0.047
0.41			0.7	0	5	100	0.5	0.047
0.411			1	0	5	100	0.5	0.047
0.408			1.3	0	5	100	0.5	0.047
0.388			1.6	0	5	100	0.5	0.047
0.365			1.9	0	5	100	0.5	0.047
0.271			0.4	0.5	5	100	0.5	0.047
0.277			0.7	0.5	5	100	0.5	0.047
0.275			1	0.5	5	100	0.5	0.047
0.276			1.3	0.5	5	100	0.5	0.047
0.253			1.6	0.5	5	100	0.5	0.047
0.223			1.9	0.5	5	100	0.5	0.047
0.171			0.4	1	5	100	0.5	0.047
0.175			0.7	1	5	100	0.5	0.047
0.176			1	1	5	100	0.5	0.047
0.176			1.3	1	5	100	0.5	0.047
0.177			1.6	1	5	100	0.5	0.047
0.142	3	1	1.9	1	5	100	0.5	0.047
0.118			0.4	2	5	100	0.5	0.047
0.119			0.7	2	5	100	0.5	0.047
0.121			1	2	5	100	0.5	0.047
0.123			1.3	2	5	100	0.5	0.047
0.121			1.6	2	5	100	0.5	0.047
0.098			1.9	2	5	100	0.5	0.047
0.086			0.4	3	5	100	0.5	0.047
0.083			0.7	3	5	100	0.5	0.047
0.081			1	3	5	100	0.5	0.047
0.078			1.3	3	5	100	0.5	0.047
0.082			1.6	3	5	100	0.5	0.047
0.063			1.9	3	5	100	0.5	0.047
0.045			0.4	4	5	100	0.5	0.047
0.043			0.7	4	5	100	0.5	0.047
0.041			1	4	5	100	0.5	0.047
0.039			1.3	4	5	100	0.5	0.047
0.041			1.6	4	5	100	0.5	0.047
0.011			1.9	4	5	100	0.5	0.047
0.44			0.4	0	5	100	1	0.047
0.439			0.7	0	5	100	1	0.047
0.43			1	0	5	100	1	0.047
0.429			1.3	0	5	100	1	0.047
0.418			1.6	0	5	100	1	0.047
0.388			1.9	0	5	100	1	0.047
0.266			0.4	0.5	5	100	1	0.047
0.271			0.7	0.5	5	100	1	0.047
0.272			1	0.5	5	100	1	0.047

0.269		1.3	0.5	5	100	1	0.047
0.248		1.6	0.5	5	100	1	0.047
0.211		1.9	0.5	5	100	1	0.047
0.171		0.4	1	5	100	1	0.047
0.172		0.7	1	5	100	1	0.047
0.169		1	1	5	100	1	0.047
0.171		1.3	1	5	100	1	0.047
0.172		1.6	1	5	100	1	0.047
0.146	2	1.9	1	5	100	1	0.047
0.113		0.4	2	5	100	1	0.047
0.115		0.7	2	5	100	1	0.047
0.116		1	2	5	100	1	0.047
0.118		1.3	2	5	100	1	0.047
0.119		1.6	2	5	100	1	0.047
0.091		1.9	2	5	100	1	0.047
0.077		0.4	3	5	100	1	0.047
0.078		0.7	3	5	100	1	0.047
0.078		1	3	5	100	1	0.047
0.078		1.3	3	5	100	1	0.047
0.079		1.6	3	5	100	1	0.047
0.033		1.9	3	5	100	1	0.047
0.035		0.4	4	5	100	1	0.047
0.033		0.7	4	5	100	1	0.047
0.031		1	4	5	100	1	0.047
0.031		1.3	4	5	100	1	0.047
0.031		1.6	4	5	100	1	0.047
0.006		1.9	4	5	100	1	0.047
0.157		0.4	0	0	33	0.5	0.015
0.161		0.7	0	0	33	0.5	0.015
0.165		1	0	0	33	0.5	0.015
0.168		1.3	0	0	33	0.5	0.015
0.153		1.6	0	0	33	0.5	0.015
0.156		1.9	0	0	33	0.5	0.015
0.143		0.4	0.5	0	33	0.5	0.015
0.142		0.7	0.5	0	33	0.5	0.015
0.141		1	0.5	0	33	0.5	0.015
0.156		1.3	0.5	0	33	0.5	0.015
0.141		1.6	0.5	0	33	0.5	0.015
0.139		1.9	0.5	0	33	0.5	0.015
0.125		0.4	1	0	33	0.5	0.015
0.121		0.7	1	0	33	0.5	0.015
0.121		1	1	0	33	0.5	0.015
0.129		1.3	1	0	33	0.5	0.015
0.117		1.6	1	0	33	0.5	0.015
0.105	21	1.9	1	0	33	0.5	0.015
0.109		0.4	2	0	33	0.5	0.015
0.108		0.7	2	0	33	0.5	0.015
0.101		1	2	0	33	0.5	0.015

0.103		1.3	2	0	33	0.5	0.015
0.105		1.6	2	0	33	0.5	0.015
0.069		1.9	2	0	33	0.5	0.015
0.081		0.4	3	0	33	0.5	0.015
0.069		0.7	3	0	33	0.5	0.015
0.071		1	3	0	33	0.5	0.015
0.069		1.3	3	0	33	0.5	0.015
0.072		1.6	3	0	33	0.5	0.015
0.048		1.9	3	0	33	0.5	0.015
0.06		0.4	4	0	33	0.5	0.015
0.053		0.7	4	0	33	0.5	0.015
0.054		1	4	0	33	0.5	0.015
0.061		1.3	4	0	33	0.5	0.015
0.048		1.6	4	0	33	0.5	0.015
0.039		1.9	4	0	33	0.5	0.015
0.245		0.4	0	0	33	1	0.015
0.242		0.7	0	0	33	1	0.015
0.243		1	0	0	33	1	0.015
0.239		1.3	0	0	33	1	0.015
0.241		1.6	0	0	33	1	0.015
0.232		1.9	0	0	33	1	0.015
0.218		0.4	0.5	0	33	1	0.015
0.223		0.7	0.5	0	33	1	0.015
0.226		1	0.5	0	33	1	0.015
0.217		1.3	0.5	0	33	1	0.015
0.216		1.6	0.5	0	33	1	0.015
0.174		1.9	0.5	0	33	1	0.015
0.175		0.4	1	0	33	1	0.015
0.176		0.7	1	0	33	1	0.015
0.177		1	1	0	33	1	0.015
0.178		1.3	1	0	33	1	0.015
0.175		1.6	1	0	33	1	0.015
0.149	18	1.9	1	0	33	1	0.015
0.144		0.4	2	0	33	1	0.015
0.148		0.7	2	0	33	1	0.015
0.146		1	2	0	33	1	0.015
0.151		1.3	2	0	33	1	0.015
0.156		1.6	2	0	33	1	0.015
0.121		1.9	2	0	33	1	0.015
0.119		0.4	3	0	33	1	0.015
0.125		0.7	3	0	33	1	0.015
0.121		1	3	0	33	1	0.015
0.126		1.3	3	0	33	1	0.015
0.111		1.6	3	0	33	1	0.015
0.095		1.9	3	0	33	1	0.015
0.091		0.4	4	0	33	1	0.015
0.089		0.7	4	0	33	1	0.015
0.088		1	4	0	33	1	0.015

0.088			1.3	4	0	33	1	0.015
0.087			1.6	4	0	33	1	0.015
0.045			1.9	4	0	33	1	0.015
0.334			0.4	0	0	33	2	0.015
0.331			0.7	0	0	33	2	0.015
0.332			1	0	0	33	2	0.015
0.326			1.3	0	0	33	2	0.015
0.333			1.6	0	0	33	2	0.015
0.305			1.9	0	0	33	2	0.015
0.307			0.4	0.5	0	33	2	0.015
0.311			0.7	0.5	0	33	2	0.015
0.31			1	0.5	0	33	2	0.015
0.308			1.3	0.5	0	33	2	0.015
0.295			1.6	0.5	0	33	2	0.015
0.256			1.9	0.5	0	33	2	0.015
0.254			0.4	1	0	33	2	0.015
0.249			0.7	1	0	33	2	0.015
0.253			1	1	0	33	2	0.015
0.248			1.3	1	0	33	2	0.015
0.251			1.6	1	0	33	2	0.015
0.204	17	1	1.9	1	0	33	2	0.015
0.167			0.4	2	0	33	2	0.015
0.161			0.7	2	0	33	2	0.015
0.159			1	2	0	33	2	0.015
0.168			1.3	2	0	33	2	0.015
0.164			1.6	2	0	33	2	0.015
0.151			1.9	2	0	33	2	0.015
0.121			0.4	3	0	33	2	0.015
0.122			0.7	3	0	33	2	0.015
0.123			1	3	0	33	2	0.015
0.121			1.3	3	0	33	2	0.015
0.12			1.6	3	0	33	2	0.015
0.092			1.9	3	0	33	2	0.015
0.085			0.4	4	0	33	2	0.015
0.086			0.7	4	0	33	2	0.015
0.089			1	4	0	33	2	0.015
0.081			1.3	4	0	33	2	0.015
0.082			1.6	4	0	33	2	0.015
0.057			1.9	4	0	33	2	0.015
0.235			0.4	0	0	45	0.5	0.015
0.234			0.7	0	0	45	0.5	0.015
0.235			1	0	0	45	0.5	0.015
0.236			1.3	0	0	45	0.5	0.015
0.228			1.6	0	0	45	0.5	0.015
0.221			1.9	0	0	45	0.5	0.015
0.21			0.4	0.5	0	45	0.5	0.015
0.211			0.7	0.5	0	45	0.5	0.015
0.211			1	0.5	0	45	0.5	0.015

0.209			1.3	0.5	0	45	0.5	0.015
0.205			1.6	0.5	0	45	0.5	0.015
0.195			1.9	0.5	0	45	0.5	0.015
0.187			0.4	1	0	45	0.5	0.015
0.191			0.7	1	0	45	0.5	0.015
0.192			1	1	0	45	0.5	0.015
0.191			1.3	1	0	45	0.5	0.015
0.193			1.6	1	0	45	0.5	0.015
0.165	13	1	1.9	1	0	45	0.5	0.015
0.141			0.4	2	0	45	0.5	0.015
0.146			0.7	2	0	45	0.5	0.015
0.143			1	2	0	45	0.5	0.015
0.141			1.3	2	0	45	0.5	0.015
0.145			1.6	2	0	45	0.5	0.015
0.123			1.9	2	0	45	0.5	0.015
0.123			0.4	3	0	45	0.5	0.015
0.119			0.7	3	0	45	0.5	0.015
0.115			1	3	0	45	0.5	0.015
0.119			1.3	3	0	45	0.5	0.015
0.114			1.6	3	0	45	0.5	0.015
0.088			1.9	3	0	45	0.5	0.015
0.093			0.4	4	0	45	0.5	0.015
0.088			0.7	4	0	45	0.5	0.015
0.091			1	4	0	45	0.5	0.015
0.087			1.3	4	0	45	0.5	0.015
0.086			1.6	4	0	45	0.5	0.015
0.062			1.9	4	0	45	0.5	0.015
0.329			0.4	0	0	45	1	0.015
0.328			0.7	0	0	45	1	0.015
0.331			1	0	0	45	1	0.015
0.325			1.3	0	0	45	1	0.015
0.327			1.6	0	0	45	1	0.015
0.321			1.9	0	0	45	1	0.015
0.281			0.4	0.5	0	45	1	0.015
0.279			0.7	0.5	0	45	1	0.015
0.283			1	0.5	0	45	1	0.015
0.284			1.3	0.5	0	45	1	0.015
0.278			1.6	0.5	0	45	1	0.015
0.266			1.9	0.5	0	45	1	0.015
0.232			0.4	1	0	45	1	0.015
0.235			0.7	1	0	45	1	0.015
0.235			1	1	0	45	1	0.015
0.236			1.3	1	0	45	1	0.015
0.231			1.6	1	0	45	1	0.015
0.217	15	3	1.9	1	0	45	1	0.015
0.173			0.4	2	0	45	1	0.015
0.171			0.7	2	0	45	1	0.015
0.169			1	2	0	45	1	0.015

0.175		1.3	2	0	45	1	0.015
0.176		1.6	2	0	45	1	0.015
0.143		1.9	2	0	45	1	0.015
0.129		0.4	3	0	45	1	0.015
0.128		0.7	3	0	45	1	0.015
0.129		1	3	0	45	1	0.015
0.127		1.3	3	0	45	1	0.015
0.127		1.6	3	0	45	1	0.015
0.111		1.9	3	0	45	1	0.015
0.098		0.4	4	0	45	1	0.015
0.099		0.7	4	0	45	1	0.015
0.093		1	4	0	45	1	0.015
0.095		1.3	4	0	45	1	0.015
0.088		1.6	4	0	45	1	0.015
0.057		1.9	4	0	45	1	0.015
0.421		0.4	0	0	45	2	0.015
0.419		0.7	0	0	45	2	0.015
0.418		1	0	0	45	2	0.015
0.422		1.3	0	0	45	2	0.015
0.418		1.6	0	0	45	2	0.015
0.414		1.9	0	0	45	2	0.015
0.375		0.4	0.5	0	45	2	0.015
0.371		0.7	0.5	0	45	2	0.015
0.368		1	0.5	0	45	2	0.015
0.376		1.3	0.5	0	45	2	0.015
0.373		1.6	0.5	0	45	2	0.015
0.351		1.9	0.5	0	45	2	0.015
0.301		0.4	1	0	45	2	0.015
0.298		0.7	1	0	45	2	0.015
0.299		1	1	0	45	2	0.015
0.305		1.3	1	0	45	2	0.015
0.294		1.6	1	0	45	2	0.015
0.277	11	1.9	1	0	45	2	0.015
0.181		0.4	2	0	45	2	0.015
0.182		0.7	2	0	45	2	0.015
0.182		1	2	0	45	2	0.015
0.183		1.3	2	0	45	2	0.015
0.178		1.6	2	0	45	2	0.015
0.16		1.9	2	0	45	2	0.015
0.125		0.4	3	0	45	2	0.015
0.131		0.7	3	0	45	2	0.015
0.131		1	3	0	45	2	0.015
0.132		1.3	3	0	45	2	0.015
0.135		1.6	3	0	45	2	0.015
0.112		1.9	3	0	45	2	0.015
0.101		0.4	4	0	45	2	0.015
0.093		0.7	4	0	45	2	0.015
0.096		1	4	0	45	2	0.015

0.088			1.3	4	0	45	2	0.015
0.092			1.6	4	0	45	2	0.015
0.068			1.9	4	0	45	2	0.015
0.413			0.4	0	0	100	0.5	0.015
0.418			0.7	0	0	100	0.5	0.015
0.417			1	0	0	100	0.5	0.015
0.418			1.3	0	0	100	0.5	0.015
0.416			1.6	0	0	100	0.5	0.015
0.411			1.9	0	0	100	0.5	0.015
0.325			0.4	0.5	0	100	0.5	0.015
0.326			0.7	0.5	0	100	0.5	0.015
0.321			1	0.5	0	100	0.5	0.015
0.324			1.3	0.5	0	100	0.5	0.015
0.319			1.6	0.5	0	100	0.5	0.015
0.295			1.9	0.5	0	100	0.5	0.015
0.265			0.4	1	0	100	0.5	0.015
0.261			0.7	1	0	100	0.5	0.015
0.262			1	1	0	100	0.5	0.015
0.263			1.3	1	0	100	0.5	0.015
0.261			1.6	1	0	100	0.5	0.015
0.247	2	1	1.9	1	0	100	0.5	0.015
0.201			0.4	2	0	100	0.5	0.015
0.202			0.7	2	0	100	0.5	0.015
0.199			1	2	0	100	0.5	0.015
0.186			1.3	2	0	100	0.5	0.015
0.184			1.6	2	0	100	0.5	0.015
0.159			1.9	2	0	100	0.5	0.015
0.156			0.4	3	0	100	0.5	0.015
0.157			0.7	3	0	100	0.5	0.015
0.154			1	3	0	100	0.5	0.015
0.153			1.3	3	0	100	0.5	0.015
0.152			1.6	3	0	100	0.5	0.015
0.136			1.9	3	0	100	0.5	0.015
0.115			0.4	4	0	100	0.5	0.015
0.114			0.7	4	0	100	0.5	0.015
0.116			1	4	0	100	0.5	0.015
0.113			1.3	4	0	100	0.5	0.015
0.115			1.6	4	0	100	0.5	0.015
0.094			1.9	4	0	100	0.5	0.015
0.431			0.4	0	0	100	1	0.015
0.43			0.7	0	0	100	1	0.015
0.43			1	0	0	100	1	0.015
0.431			1.3	0	0	100	1	0.015
0.427			1.6	0	0	100	1	0.015
0.411			1.9	0	0	100	1	0.015
0.352			0.4	0.5	0	100	1	0.015
0.351			0.7	0.5	0	100	1	0.015
0.348			1	0.5	0	100	1	0.015

0.349		1.3	0.5	0	100	1	0.015
0.351		1.6	0.5	0	100	1	0.015
0.314		1.9	0.5	0	100	1	0.015
0.261		0.4	1	0	100	1	0.015
0.26		0.7	1	0	100	1	0.015
0.259		1	1	0	100	1	0.015
0.263		1.3	1	0	100	1	0.015
0.265		1.6	1	0	100	1	0.015
0.221	2	1.9	1	0	100	1	0.015
0.192		0.4	2	0	100	1	0.015
0.193		0.7	2	0	100	1	0.015
0.192		1	2	0	100	1	0.015
0.192		1.3	2	0	100	1	0.015
0.191		1.6	2	0	100	1	0.015
0.153		1.9	2	0	100	1	0.015
0.149		0.4	3	0	100	1	0.015
0.153		0.7	3	0	100	1	0.015
0.151		1	3	0	100	1	0.015
0.152		1.3	3	0	100	1	0.015
0.153		1.6	3	0	100	1	0.015
0.117		1.9	3	0	100	1	0.015
0.118		0.4	4	0	100	1	0.015
0.119		0.7	4	0	100	1	0.015
0.121		1	4	0	100	1	0.015
0.114		1.3	4	0	100	1	0.015
0.111		1.6	4	0	100	1	0.015
0.095		1.9	4	0	100	1	0.015
0.167		0.4	0	3	33	0.5	0.015
0.168		0.7	0	3	33	0.5	0.015
0.168		1	0	3	33	0.5	0.015
0.165		1.3	0	3	33	0.5	0.015
0.163		1.6	0	3	33	0.5	0.015
0.156		1.9	0	3	33	0.5	0.015
0.148		0.4	0.5	3	33	0.5	0.015
0.147		0.7	0.5	3	33	0.5	0.015
0.151		1	0.5	3	33	0.5	0.015
0.148		1.3	0.5	3	33	0.5	0.015
0.149		1.6	0.5	3	33	0.5	0.015
0.138		1.9	0.5	3	33	0.5	0.015
0.121		0.4	1	3	33	0.5	0.015
0.121		0.7	1	3	33	0.5	0.015
0.119		1	1	3	33	0.5	0.015
0.12		1.3	1	3	33	0.5	0.015
0.118		1.6	1	3	33	0.5	0.015
0.104	14	1.9	1	3	33	0.5	0.015
0.093		0.4	2	3	33	0.5	0.015
0.092		0.7	2	3	33	0.5	0.015
0.091		1	2	3	33	0.5	0.015

0.094		1.3	2	3	33	0.5	0.015
0.091		1.6	2	3	33	0.5	0.015
0.07		1.9	2	3	33	0.5	0.015
0.075		0.4	3	3	33	0.5	0.015
0.074		0.7	3	3	33	0.5	0.015
0.073		1	3	3	33	0.5	0.015
0.075		1.3	3	3	33	0.5	0.015
0.074		1.6	3	3	33	0.5	0.015
0.046		1.9	3	3	33	0.5	0.015
0.042		0.4	4	3	33	0.5	0.015
0.044		0.7	4	3	33	0.5	0.015
0.046		1	4	3	33	0.5	0.015
0.044		1.3	4	3	33	0.5	0.015
0.049		1.6	4	3	33	0.5	0.015
0.03		1.9	4	3	33	0.5	0.015
0.231		0.4	0	3	33	1	0.015
0.228		0.7	0	3	33	1	0.015
0.228		1	0	3	33	1	0.015
0.229		1.3	0	3	33	1	0.015
0.231		1.6	0	3	33	1	0.015
0.217		1.9	0	3	33	1	0.015
0.201		0.4	0.5	3	33	1	0.015
0.198		0.7	0.5	3	33	1	0.015
0.204		1	0.5	3	33	1	0.015
0.206		1.3	0.5	3	33	1	0.015
0.195		1.6	0.5	3	33	1	0.015
0.182		1.9	0.5	3	33	1	0.015
0.165		0.4	1	3	33	1	0.015
0.166		0.7	1	3	33	1	0.015
0.168		1	1	3	33	1	0.015
0.171		1.3	1	3	33	1	0.015
0.17		1.6	1	3	33	1	0.015
0.152	16	1.9	1	3	33	1	0.015
0.139		0.4	2	3	33	1	0.015
0.138		0.7	2	3	33	1	0.015
0.135		1	2	3	33	1	0.015
0.135		1.3	2	3	33	1	0.015
0.136		1.6	2	3	33	1	0.015
0.114		1.9	2	3	33	1	0.015
0.123		0.4	3	3	33	1	0.015
0.125		0.7	3	3	33	1	0.015
0.124		1	3	3	33	1	0.015
0.123		1.3	3	3	33	1	0.015
0.123		1.6	3	3	33	1	0.015
0.095		1.9	3	3	33	1	0.015
0.087		0.4	4	3	33	1	0.015
0.083		0.7	4	3	33	1	0.015
0.075		1	4	3	33	1	0.015

0.078			1.3	4	3	33	1	0.015
0.076			1.6	4	3	33	1	0.015
0.051			1.9	4	3	33	1	0.015
0.328			0.4	0	3	33	2	0.015
0.327			0.7	0	3	33	2	0.015
0.325			1	0	3	33	2	0.015
0.326			1.3	0	3	33	2	0.015
0.329			1.6	0	3	33	2	0.015
0.321			1.9	0	3	33	2	0.015
0.295			0.4	0.5	3	33	2	0.015
0.29			0.7	0.5	3	33	2	0.015
0.292			1	0.5	3	33	2	0.015
0.293			1.3	0.5	3	33	2	0.015
0.285			1.6	0.5	3	33	2	0.015
0.255			1.9	0.5	3	33	2	0.015
0.212			0.4	1	3	33	2	0.015
0.216			0.7	1	3	33	2	0.015
0.217			1	1	3	33	2	0.015
0.216			1.3	1	3	33	2	0.015
0.214			1.6	1	3	33	2	0.015
0.189	16	1	1.9	1	3	33	2	0.015
0.153			0.4	2	3	33	2	0.015
0.152			0.7	2	3	33	2	0.015
0.149			1	2	3	33	2	0.015
0.149			1.3	2	3	33	2	0.015
0.151			1.6	2	3	33	2	0.015
0.146			1.9	2	3	33	2	0.015
0.117			0.4	3	3	33	2	0.015
0.116			0.7	3	3	33	2	0.015
0.116			1	3	3	33	2	0.015
0.115			1.3	3	3	33	2	0.015
0.114			1.6	3	3	33	2	0.015
0.096			1.9	3	3	33	2	0.015
0.089			0.4	4	3	33	2	0.015
0.091			0.7	4	3	33	2	0.015
0.079			1	4	3	33	2	0.015
0.075			1.3	4	3	33	2	0.015
0.073			1.6	4	3	33	2	0.015
0.051			1.9	4	3	33	2	0.015
0.226			0.4	0	3	45	0.5	0.015
0.225			0.7	0	3	45	0.5	0.015
0.227			1	0	3	45	0.5	0.015
0.225			1.3	0	3	45	0.5	0.015
0.226			1.6	0	3	45	0.5	0.015
0.215			1.9	0	3	45	0.5	0.015
0.195			0.4	0.5	3	45	0.5	0.015
0.197			0.7	0.5	3	45	0.5	0.015
0.195			1	0.5	3	45	0.5	0.015

0.196		1.3	0.5	3	45	0.5	0.015
0.195		1.6	0.5	3	45	0.5	0.015
0.185		1.9	0.5	3	45	0.5	0.015
0.181		0.4	1	3	45	0.5	0.015
0.181		0.7	1	3	45	0.5	0.015
0.182		1	1	3	45	0.5	0.015
0.181		1.3	1	3	45	0.5	0.015
0.185		1.6	1	3	45	0.5	0.015
0.161	14	1.9	1	3	45	0.5	0.015
0.126		0.4	2	3	45	0.5	0.015
0.127		0.7	2	3	45	0.5	0.015
0.128		1	2	3	45	0.5	0.015
0.129		1.3	2	3	45	0.5	0.015
0.125		1.6	2	3	45	0.5	0.015
0.109		1.9	2	3	45	0.5	0.015
0.111		0.4	3	3	45	0.5	0.015
0.112		0.7	3	3	45	0.5	0.015
0.109		1	3	3	45	0.5	0.015
0.108		1.3	3	3	45	0.5	0.015
0.107		1.6	3	3	45	0.5	0.015
0.081		1.9	3	3	45	0.5	0.015
0.081		0.4	4	3	45	0.5	0.015
0.082		0.7	4	3	45	0.5	0.015
0.079		1	4	3	45	0.5	0.015
0.075		1.3	4	3	45	0.5	0.015
0.069		1.6	4	3	45	0.5	0.015
0.051		1.9	4	3	45	0.5	0.015
0.32		0.4	0	3	45	1	0.015
0.319		0.7	0	3	45	1	0.015
0.315		1	0	3	45	1	0.015
0.318		1.3	0	3	45	1	0.015
0.321		1.6	0	3	45	1	0.015
0.299		1.9	0	3	45	1	0.015
0.263		0.4	0.5	3	45	1	0.015
0.262		0.7	0.5	3	45	1	0.015
0.263		1	0.5	3	45	1	0.015
0.265		1.3	0.5	3	45	1	0.015
0.267		1.6	0.5	3	45	1	0.015
0.239		1.9	0.5	3	45	1	0.015
0.222		0.4	1	3	45	1	0.015
0.221		0.7	1	3	45	1	0.015
0.223		1	1	3	45	1	0.015
0.221		1.3	1	3	45	1	0.015
0.215		1.6	1	3	45	1	0.015
0.201	12	1.9	1	3	45	1	0.015
0.165		0.4	2	3	45	1	0.015
0.161		0.7	2	3	45	1	0.015
0.159		1	2	3	45	1	0.015

0.155		1.3	2	3	45	1	0.015
0.151		1.6	2	3	45	1	0.015
0.144		1.9	2	3	45	1	0.015
0.121		0.4	3	3	45	1	0.015
0.122		0.7	3	3	45	1	0.015
0.121		1	3	3	45	1	0.015
0.119		1.3	3	3	45	1	0.015
0.118		1.6	3	3	45	1	0.015
0.101		1.9	3	3	45	1	0.015
0.088		0.4	4	3	45	1	0.015
0.078		0.7	4	3	45	1	0.015
0.079		1	4	3	45	1	0.015
0.085		1.3	4	3	45	1	0.015
0.081		1.6	4	3	45	1	0.015
0.059		1.9	4	3	45	1	0.015
0.419		0.4	0	3	45	2	0.015
0.418		0.7	0	3	45	2	0.015
0.42		1	0	3	45	2	0.015
0.418		1.3	0	3	45	2	0.015
0.417		1.6	0	3	45	2	0.015
0.401		1.9	0	3	45	2	0.015
0.339		0.4	0.5	3	45	2	0.015
0.335		0.7	0.5	3	45	2	0.015
0.331		1	0.5	3	45	2	0.015
0.329		1.3	0.5	3	45	2	0.015
0.325		1.6	0.5	3	45	2	0.015
0.301		1.9	0.5	3	45	2	0.015
0.267		0.4	1	3	45	2	0.015
0.271		0.7	1	3	45	2	0.015
0.268		1	1	3	45	2	0.015
0.269		1.3	1	3	45	2	0.015
0.265		1.6	1	3	45	2	0.015
0.239	13	1.9	1	3	45	2	0.015
0.159		0.4	2	3	45	2	0.015
0.158		0.7	2	3	45	2	0.015
0.155		1	2	3	45	2	0.015
0.156		1.3	2	3	45	2	0.015
0.158		1.6	2	3	45	2	0.015
0.138		1.9	2	3	45	2	0.015
0.118		0.4	3	3	45	2	0.015
0.114		0.7	3	3	45	2	0.015
0.115		1	3	3	45	2	0.015
0.113		1.3	3	3	45	2	0.015
0.109		1.6	3	3	45	2	0.015
0.098		1.9	3	3	45	2	0.015
0.085		0.4	4	3	45	2	0.015
0.079		0.7	4	3	45	2	0.015
0.078		1	4	3	45	2	0.015

0.075			1.3	4	3	45	2	0.015
0.076			1.6	4	3	45	2	0.015
0.059			1.9	4	3	45	2	0.015
0.412			0.4	0	3	100	0.5	0.015
0.411			0.7	0	3	100	0.5	0.015
0.411			1	0	3	100	0.5	0.015
0.408			1.3	0	3	100	0.5	0.015
0.409			1.6	0	3	100	0.5	0.015
0.395			1.9	0	3	100	0.5	0.015
0.305			0.4	0.5	3	100	0.5	0.015
0.307			0.7	0.5	3	100	0.5	0.015
0.306			1	0.5	3	100	0.5	0.015
0.304			1.3	0.5	3	100	0.5	0.015
0.303			1.6	0.5	3	100	0.5	0.015
0.271			1.9	0.5	3	100	0.5	0.015
0.241			0.4	1	3	100	0.5	0.015
0.239			0.7	1	3	100	0.5	0.015
0.236			1	1	3	100	0.5	0.015
0.239			1.3	1	3	100	0.5	0.015
0.238			1.6	1	3	100	0.5	0.015
0.205	2	1	1.9	1	3	100	0.5	0.015
0.161			0.4	2	3	100	0.5	0.015
0.159			0.7	2	3	100	0.5	0.015
0.163			1	2	3	100	0.5	0.015
0.162			1.3	2	3	100	0.5	0.015
0.161			1.6	2	3	100	0.5	0.015
0.135			1.9	2	3	100	0.5	0.015
0.125			0.4	3	3	100	0.5	0.015
0.126			0.7	3	3	100	0.5	0.015
0.125			1	3	3	100	0.5	0.015
0.127			1.3	3	3	100	0.5	0.015
0.127			1.6	3	3	100	0.5	0.015
0.101			1.9	3	3	100	0.5	0.015
0.091			0.4	4	3	100	0.5	0.015
0.085			0.7	4	3	100	0.5	0.015
0.086			1	4	3	100	0.5	0.015
0.088			1.3	4	3	100	0.5	0.015
0.087			1.6	4	3	100	0.5	0.015
0.066			1.9	4	3	100	0.5	0.015
0.432			0.4	0	3	100	1	0.015
0.435			0.7	0	3	100	1	0.015
0.431			1	0	3	100	1	0.015
0.431			1.3	0	3	100	1	0.015
0.429			1.6	0	3	100	1	0.015
0.411			1.9	0	3	100	1	0.015
0.345			0.4	0.5	3	100	1	0.015
0.344			0.7	0.5	3	100	1	0.015
0.339			1	0.5	3	100	1	0.015

0.341		1.3	0.5	3	100	1	0.015
0.336		1.6	0.5	3	100	1	0.015
0.307		1.9	0.5	3	100	1	0.015
0.244		0.4	1	3	100	1	0.015
0.246		0.7	1	3	100	1	0.015
0.244		1	1	3	100	1	0.015
0.246		1.3	1	3	100	1	0.015
0.245		1.6	1	3	100	1	0.015
0.221	4	1.9	1	3	100	1	0.015
0.169	3	0.4	2	3	100	1	0.015
0.168		0.7	2	3	100	1	0.015
0.161		1	2	3	100	1	0.015
0.158		1.3	2	3	100	1	0.015
0.162		1.6	2	3	100	1	0.015
0.138		1.9	2	3	100	1	0.015
0.121		0.4	3	3	100	1	0.015
0.118		0.7	3	3	100	1	0.015
0.118		1	3	3	100	1	0.015
0.116		1.3	3	3	100	1	0.015
0.114		1.6	3	3	100	1	0.015
0.095		1.9	3	3	100	1	0.015
0.098		0.4	4	3	100	1	0.015
0.085		0.7	4	3	100	1	0.015
0.079		1	4	3	100	1	0.015
0.081		1.3	4	3	100	1	0.015
0.083		1.6	4	3	100	1	0.015
0.044		1.9	4	3	100	1	0.015
0.159		0.4	0	5	33	0.5	0.015
0.158		0.7	0	5	33	0.5	0.015
0.156		1	0	5	33	0.5	0.015
0.157		1.3	0	5	33	0.5	0.015
0.155		1.6	0	5	33	0.5	0.015
0.141		1.9	0	5	33	0.5	0.015
0.118		0.4	0.5	5	33	0.5	0.015
0.119		0.7	0.5	5	33	0.5	0.015
0.117		1	0.5	5	33	0.5	0.015
0.121		1.3	0.5	5	33	0.5	0.015
0.114		1.6	0.5	5	33	0.5	0.015
0.096		1.9	0.5	5	33	0.5	0.015
0.099		0.4	1	5	33	0.5	0.015
0.093		0.7	1	5	33	0.5	0.015
0.095		1	1	5	33	0.5	0.015
0.091		1.3	1	5	33	0.5	0.015
0.088		1.6	1	5	33	0.5	0.015
0.061	16	1.9	1	5	33	0.5	0.015
0.066	1	0.4	2	5	33	0.5	0.015
0.065		0.7	2	5	33	0.5	0.015
0.064		1	2	5	33	0.5	0.015

0.065		1.3	2	5	33	0.5	0.015
0.061		1.6	2	5	33	0.5	0.015
0.038		1.9	2	5	33	0.5	0.015
0.045		0.4	3	5	33	0.5	0.015
0.044		0.7	3	5	33	0.5	0.015
0.043		1	3	5	33	0.5	0.015
0.044		1.3	3	5	33	0.5	0.015
0.047		1.6	3	5	33	0.5	0.015
0.021		1.9	3	5	33	0.5	0.015
0.019		0.4	4	5	33	0.5	0.015
0.021		0.7	4	5	33	0.5	0.015
0.018		1	4	5	33	0.5	0.015
0.022		1.3	4	5	33	0.5	0.015
0.021		1.6	4	5	33	0.5	0.015
0.003		1.9	4	5	33	0.5	0.015
0.222		0.4	0	5	33	1	0.015
0.223		0.7	0	5	33	1	0.015
0.221		1	0	5	33	1	0.015
0.219		1.3	0	5	33	1	0.015
0.217		1.6	0	5	33	1	0.015
0.206		1.9	0	5	33	1	0.015
0.178		0.4	0.5	5	33	1	0.015
0.185		0.7	0.5	5	33	1	0.015
0.186		1	0.5	5	33	1	0.015
0.185		1.3	0.5	5	33	1	0.015
0.179		1.6	0.5	5	33	1	0.015
0.165		1.9	0.5	5	33	1	0.015
0.133		0.4	1	5	33	1	0.015
0.132		0.7	1	5	33	1	0.015
0.131		1	1	5	33	1	0.015
0.129		1.3	1	5	33	1	0.015
0.128		1.6	1	5	33	1	0.015
0.106	14	1.9	1	5	33	1	0.015
0.107	0	0.4	2	5	33	1	0.015
0.108		0.7	2	5	33	1	0.015
0.111		1	2	5	33	1	0.015
0.105		1.3	2	5	33	1	0.015
0.101		1.6	2	5	33	1	0.015
0.084		1.9	2	5	33	1	0.015
0.086		0.4	3	5	33	1	0.015
0.087		0.7	3	5	33	1	0.015
0.079		1	3	5	33	1	0.015
0.075		1.3	3	5	33	1	0.015
0.077		1.6	3	5	33	1	0.015
0.053		1.9	3	5	33	1	0.015
0.035		0.4	4	5	33	1	0.015
0.036		0.7	4	5	33	1	0.015
0.033		1	4	5	33	1	0.015

0.029			1.3	4	5	33	1	0.015
0.021			1.6	4	5	33	1	0.015
0.007			1.9	4	5	33	1	0.015
0.31			0.4	0	5	33	2	0.015
0.316			0.7	0	5	33	2	0.015
0.317			1	0	5	33	2	0.015
0.318			1.3	0	5	33	2	0.015
0.314			1.6	0	5	33	2	0.015
0.299			1.9	0	5	33	2	0.015
0.289			0.4	0.5	5	33	2	0.015
0.287			0.7	0.5	5	33	2	0.015
0.285			1	0.5	5	33	2	0.015
0.286			1.3	0.5	5	33	2	0.015
0.275			1.6	0.5	5	33	2	0.015
0.251			1.9	0.5	5	33	2	0.015
0.176			0.4	1	5	33	2	0.015
0.177			0.7	1	5	33	2	0.015
0.169			1	1	5	33	2	0.015
0.174			1.3	1	5	33	2	0.015
0.168			1.6	1	5	33	2	0.015
0.145	17	1	1.9	1	5	33	2	0.015
0.127			0.4	2	5	33	2	0.015
0.126			0.7	2	5	33	2	0.015
0.124			1	2	5	33	2	0.015
0.123			1.3	2	5	33	2	0.015
0.121			1.6	2	5	33	2	0.015
0.103			1.9	2	5	33	2	0.015
0.088			0.4	3	5	33	2	0.015
0.085			0.7	3	5	33	2	0.015
0.083			1	3	5	33	2	0.015
0.081			1.3	3	5	33	2	0.015
0.076			1.6	3	5	33	2	0.015
0.054			1.9	3	5	33	2	0.015
0.04			0.4	4	5	33	2	0.015
0.039			0.7	4	5	33	2	0.015
0.036			1	4	5	33	2	0.015
0.035			1.3	4	5	33	2	0.015
0.031			1.6	4	5	33	2	0.015
0.017			1.9	4	5	33	2	0.015
0.229			0.4	0	5	45	0.5	0.015
0.228			0.7	0	5	45	0.5	0.015
0.231			1	0	5	45	0.5	0.015
0.225			1.3	0	5	45	0.5	0.015
0.224			1.6	0	5	45	0.5	0.015
0.227			1.9	0	5	45	0.5	0.015
0.183			0.4	0.5	5	45	0.5	0.015
0.184			0.7	0.5	5	45	0.5	0.015
0.186			1	0.5	5	45	0.5	0.015

0.183			1.3	0.5	5	45	0.5	0.015
0.181			1.6	0.5	5	45	0.5	0.015
0.153			1.9	0.5	5	45	0.5	0.015
0.136			0.4	1	5	45	0.5	0.015
0.138			0.7	1	5	45	0.5	0.015
0.139			1	1	5	45	0.5	0.015
0.131			1.3	1	5	45	0.5	0.015
0.125			1.6	1	5	45	0.5	0.015
0.108	13	1	1.9	1	5	45	0.5	0.015
0.101			0.4	2	5	45	0.5	0.015
0.098			0.7	2	5	45	0.5	0.015
0.102			1	2	5	45	0.5	0.015
0.097			1.3	2	5	45	0.5	0.015
0.096			1.6	2	5	45	0.5	0.015
0.078			1.9	2	5	45	0.5	0.015
0.071			0.4	3	5	45	0.5	0.015
0.065			0.7	3	5	45	0.5	0.015
0.063			1	3	5	45	0.5	0.015
0.061			1.3	3	5	45	0.5	0.015
0.066			1.6	3	5	45	0.5	0.015
0.038			1.9	3	5	45	0.5	0.015
0.025			0.4	4	5	45	0.5	0.015
0.026			0.7	4	5	45	0.5	0.015
0.021			1	4	5	45	0.5	0.015
0.022			1.3	4	5	45	0.5	0.015
0.019			1.6	4	5	45	0.5	0.015
0.009			1.9	4	5	45	0.5	0.015
0.317			0.4	0	5	45	1	0.015
0.322			0.7	0	5	45	1	0.015
0.318			1	0	5	45	1	0.015
0.319			1.3	0	5	45	1	0.015
0.32			1.6	0	5	45	1	0.015
0.313			1.9	0	5	45	1	0.015
0.241			0.4	0.5	5	45	1	0.015
0.239			0.7	0.5	5	45	1	0.015
0.231			1	0.5	5	45	1	0.015
0.228			1.3	0.5	5	45	1	0.015
0.225			1.6	0.5	5	45	1	0.015
0.201			1.9	0.5	5	45	1	0.015
0.171			0.4	1	5	45	1	0.015
0.168			0.7	1	5	45	1	0.015
0.161			1	1	5	45	1	0.015
0.16			1.3	1	5	45	1	0.015
0.159			1.6	1	5	45	1	0.015
0.125	18	3	1.9	1	5	45	1	0.015
0.128			0.4	2	5	45	1	0.015
0.121			0.7	2	5	45	1	0.015
0.123			1	2	5	45	1	0.015

0.124		1.3	2	5	45	1	0.015
0.119		1.6	2	5	45	1	0.015
0.083		1.9	2	5	45	1	0.015
0.092		0.4	3	5	45	1	0.015
0.091		0.7	3	5	45	1	0.015
0.089		1	3	5	45	1	0.015
0.083		1.3	3	5	45	1	0.015
0.079		1.6	3	5	45	1	0.015
0.055		1.9	3	5	45	1	0.015
0.042		0.4	4	5	45	1	0.015
0.039		0.7	4	5	45	1	0.015
0.036		1	4	5	45	1	0.015
0.033		1.3	4	5	45	1	0.015
0.029		1.6	4	5	45	1	0.015
0.003		1.9	4	5	45	1	0.015
0.422		0.4	0	5	45	2	0.015
0.425		0.7	0	5	45	2	0.015
0.426		1	0	5	45	2	0.015
0.427		1.3	0	5	45	2	0.015
0.418		1.6	0	5	45	2	0.015
0.401		1.9	0	5	45	2	0.015
0.268		0.4	0.5	5	45	2	0.015
0.269		0.7	0.5	5	45	2	0.015
0.263		1	0.5	5	45	2	0.015
0.261		1.3	0.5	5	45	2	0.015
0.259		1.6	0.5	5	45	2	0.015
0.227		1.9	0.5	5	45	2	0.015
0.178		0.4	1	5	45	2	0.015
0.179		0.7	1	5	45	2	0.015
0.176		1	1	5	45	2	0.015
0.175		1.3	1	5	45	2	0.015
0.169		1.6	1	5	45	2	0.015
0.133	13 1	1.9	1	5	45	2	0.015
0.123		0.4	2	5	45	2	0.015
0.118		0.7	2	5	45	2	0.015
0.123		1	2	5	45	2	0.015
0.119		1.3	2	5	45	2	0.015
0.126		1.6	2	5	45	2	0.015
0.086		1.9	2	5	45	2	0.015
0.089		0.4	3	5	45	2	0.015
0.086		0.7	3	5	45	2	0.015
0.086		1	3	5	45	2	0.015
0.085		1.3	3	5	45	2	0.015
0.083		1.6	3	5	45	2	0.015
0.055		1.9	3	5	45	2	0.015
0.044		0.4	4	5	45	2	0.015
0.041		0.7	4	5	45	2	0.015
0.044		1	4	5	45	2	0.015

0.039			1.3	4	5	45	2	0.015
0.041			1.6	4	5	45	2	0.015
0.011			1.9	4	5	45	2	0.015
0.412			0.4	0	5	100	0.5	0.015
0.413			0.7	0	5	100	0.5	0.015
0.414			1	0	5	100	0.5	0.015
0.415			1.3	0	5	100	0.5	0.015
0.397			1.6	0	5	100	0.5	0.015
0.374			1.9	0	5	100	0.5	0.015
0.286			0.4	0.5	5	100	0.5	0.015
0.287			0.7	0.5	5	100	0.5	0.015
0.291			1	0.5	5	100	0.5	0.015
0.285			1.3	0.5	5	100	0.5	0.015
0.271			1.6	0.5	5	100	0.5	0.015
0.236			1.9	0.5	5	100	0.5	0.015
0.172			0.4	1	5	100	0.5	0.015
0.171			0.7	1	5	100	0.5	0.015
0.175			1	1	5	100	0.5	0.015
0.173			1.3	1	5	100	0.5	0.015
0.178			1.6	1	5	100	0.5	0.015
0.152	2	1	1.9	1	5	100	0.5	0.015
0.126			0.4	2	5	100	0.5	0.015
0.128			0.7	2	5	100	0.5	0.015
0.131			1	2	5	100	0.5	0.015
0.125			1.3	2	5	100	0.5	0.015
0.121			1.6	2	5	100	0.5	0.015
0.102			1.9	2	5	100	0.5	0.015
0.091			0.4	3	5	100	0.5	0.015
0.092			0.7	3	5	100	0.5	0.015
0.089			1	3	5	100	0.5	0.015
0.091			1.3	3	5	100	0.5	0.015
0.087			1.6	3	5	100	0.5	0.015
0.071			1.9	3	5	100	0.5	0.015
0.045			0.4	4	5	100	0.5	0.015
0.048			0.7	4	5	100	0.5	0.015
0.049			1	4	5	100	0.5	0.015
0.043			1.3	4	5	100	0.5	0.015
0.039			1.6	4	5	100	0.5	0.015
0.009			1.9	4	5	100	0.5	0.015
0.439			0.4	0	5	100	1	0.015
0.438			0.7	0	5	100	1	0.015
0.44			1	0	5	100	1	0.015
0.438			1.3	0	5	100	1	0.015
0.426			1.6	0	5	100	1	0.015
0.401			1.9	0	5	100	1	0.015
0.278			0.4	0.5	5	100	1	0.015
0.278			0.7	0.5	5	100	1	0.015
0.273			1	0.5	5	100	1	0.015

0.269		1.3	0.5	5	100	1	0.015
0.254		1.6	0.5	5	100	1	0.015
0.221		1.9	0.5	5	100	1	0.015
0.183		0.4	1	5	100	1	0.015
0.182		0.7	1	5	100	1	0.015
0.181		1	1	5	100	1	0.015
0.183		1.3	1	5	100	1	0.015
0.18		1.6	1	5	100	1	0.015
0.153	3	1.9	1	5	100	1	0.015
0.116		0.4	2	5	100	1	0.015
0.117		0.7	2	5	100	1	0.015
0.116		1	2	5	100	1	0.015
0.118		1.3	2	5	100	1	0.015
0.113		1.6	2	5	100	1	0.015
0.092		1.9	2	5	100	1	0.015
0.086		0.4	3	5	100	1	0.015
0.085		0.7	3	5	100	1	0.015
0.084		1	3	5	100	1	0.015
0.085		1.3	3	5	100	1	0.015
0.084		1.6	3	5	100	1	0.015
0.052		1.9	3	5	100	1	0.015
0.029		0.4	4	5	100	1	0.015
0.031		0.7	4	5	100	1	0.015
0.032		1	4	5	100	1	0.015
0.036		1.3	4	5	100	1	0.015
0.028		1.6	4	5	100	1	0.015
0.009		1.9	4	5	100	1	0.015
0.162		0.4	0	0	33	0.5	0.0255
0.165		0.7	0	0	33	0.5	0.0255
0.163		1	0	0	33	0.5	0.0255
0.165		1.3	0	0	33	0.5	0.0255
0.166		1.6	0	0	33	0.5	0.0255
0.161		1.9	0	0	33	0.5	0.0255
0.152		0.4	0.5	0	33	0.5	0.0255
0.151		0.7	0.5	0	33	0.5	0.0255
0.152		1	0.5	0	33	0.5	0.0255
0.149		1.3	0.5	0	33	0.5	0.0255
0.151		1.6	0.5	0	33	0.5	0.0255
0.148		1.9	0.5	0	33	0.5	0.0255
0.135		0.4	1	0	33	0.5	0.0255
0.135		0.7	1	0	33	0.5	0.0255
0.134		1	1	0	33	0.5	0.0255
0.131		1.3	1	0	33	0.5	0.0255
0.129		1.6	1	0	33	0.5	0.0255
0.115	23	1.9	1	0	33	0.5	0.0255
0.111		0.4	2	0	33	0.5	0.0255
0.108		0.7	2	0	33	0.5	0.0255
0.101		1	2	0	33	0.5	0.0255

0.105		1.3	2	0	33	0.5	0.0255
0.106		1.6	2	0	33	0.5	0.0255
0.089		1.9	2	0	33	0.5	0.0255
0.081		0.4	3	0	33	0.5	0.0255
0.079		0.7	3	0	33	0.5	0.0255
0.078		1	3	0	33	0.5	0.0255
0.076		1.3	3	0	33	0.5	0.0255
0.075		1.6	3	0	33	0.5	0.0255
0.059		1.9	3	0	33	0.5	0.0255
0.061		0.4	4	0	33	0.5	0.0255
0.059		0.7	4	0	33	0.5	0.0255
0.058		1	4	0	33	0.5	0.0255
0.055		1.3	4	0	33	0.5	0.0255
0.053		1.6	4	0	33	0.5	0.0255
0.035		1.9	4	0	33	0.5	0.0255
0.241		0.4	0	0	33	1	0.0255
0.239		0.7	0	0	33	1	0.0255
0.238		1	0	0	33	1	0.0255
0.244		1.3	0	0	33	1	0.0255
0.238		1.6	0	0	33	1	0.0255
0.231		1.9	0	0	33	1	0.0255
0.225		0.4	0.5	0	33	1	0.0255
0.226		0.7	0.5	0	33	1	0.0255
0.222		1	0.5	0	33	1	0.0255
0.221		1.3	0.5	0	33	1	0.0255
0.221		1.6	0.5	0	33	1	0.0255
0.202		1.9	0.5	0	33	1	0.0255
0.195		0.4	1	0	33	1	0.0255
0.193		0.7	1	0	33	1	0.0255
0.194		1	1	0	33	1	0.0255
0.1914		1.3	1	0	33	1	0.0255
0.189		1.6	1	0	33	1	0.0255
0.162	19 1	1.9	1	0	33	1	0.0255
0.155		0.4	2	0	33	1	0.0255
0.156		0.7	2	0	33	1	0.0255
0.157		1	2	0	33	1	0.0255
0.155		1.3	2	0	33	1	0.0255
0.156		1.6	2	0	33	1	0.0255
0.135		1.9	2	0	33	1	0.0255
0.133		0.4	3	0	33	1	0.0255
0.129		0.7	3	0	33	1	0.0255
0.128		1	3	0	33	1	0.0255
0.131		1.3	3	0	33	1	0.0255
0.128		1.6	3	0	33	1	0.0255
0.096		1.9	3	0	33	1	0.0255
0.095		0.4	4	0	33	1	0.0255
0.094		0.7	4	0	33	1	0.0255
0.093		1	4	0	33	1	0.0255

0.094			1.3	4	0	33	1	0.0255
0.089			1.6	4	0	33	1	0.0255
0.051			1.9	4	0	33	1	0.0255
0.331			0.4	0	0	33	2	0.0255
0.329			0.7	0	0	33	2	0.0255
0.335			1	0	0	33	2	0.0255
0.327			1.3	0	0	33	2	0.0255
0.341			1.6	0	0	33	2	0.0255
0.303			1.9	0	0	33	2	0.0255
0.305			0.4	0.5	0	33	2	0.0255
0.307			0.7	0.5	0	33	2	0.0255
0.309			1	0.5	0	33	2	0.0255
0.305			1.3	0.5	0	33	2	0.0255
0.311			1.6	0.5	0	33	2	0.0255
0.254			1.9	0.5	0	33	2	0.0255
0.261			0.4	1	0	33	2	0.0255
0.259			0.7	1	0	33	2	0.0255
0.262			1	1	0	33	2	0.0255
0.263			1.3	1	0	33	2	0.0255
0.265			1.6	1	0	33	2	0.0255
0.187	20	1	1.9	1	0	33	2	0.0255
0.165			0.4	2	0	33	2	0.0255
0.166			0.7	2	0	33	2	0.0255
0.159			1	2	0	33	2	0.0255
0.161			1.3	2	0	33	2	0.0255
0.154			1.6	2	0	33	2	0.0255
0.135			1.9	2	0	33	2	0.0255
0.123			0.4	3	0	33	2	0.0255
0.119			0.7	3	0	33	2	0.0255
0.118			1	3	0	33	2	0.0255
0.125			1.3	3	0	33	2	0.0255
0.128			1.6	3	0	33	2	0.0255
0.091			1.9	3	0	33	2	0.0255
0.084			0.4	4	0	33	2	0.0255
0.083			0.7	4	0	33	2	0.0255
0.082			1	4	0	33	2	0.0255
0.082			1.3	4	0	33	2	0.0255
0.081			1.6	4	0	33	2	0.0255
0.051			1.9	4	0	33	2	0.0255
0.231			0.4	0	0	45	0.5	0.0255
0.229			0.7	0	0	45	0.5	0.0255
0.228			1	0	0	45	0.5	0.0255
0.231			1.3	0	0	45	0.5	0.0255
0.229			1.6	0	0	45	0.5	0.0255
0.225			1.9	0	0	45	0.5	0.0255
0.215			0.4	0.5	0	45	0.5	0.0255
0.216			0.7	0.5	0	45	0.5	0.0255
0.213			1	0.5	0	45	0.5	0.0255

0.214			1.3	0.5	0	45	0.5	0.0255
0.215			1.6	0.5	0	45	0.5	0.0255
0.193			1.9	0.5	0	45	0.5	0.0255
0.199			0.4	1	0	45	0.5	0.0255
0.201			0.7	1	0	45	0.5	0.0255
0.199			1	1	0	45	0.5	0.0255
0.202			1.3	1	0	45	0.5	0.0255
0.195			1.6	1	0	45	0.5	0.0255
0.164	14	0	1.9	1	0	45	0.5	0.0255
0.153			0.4	2	0	45	0.5	0.0255
0.155			0.7	2	0	45	0.5	0.0255
0.156			1	2	0	45	0.5	0.0255
0.151			1.3	2	0	45	0.5	0.0255
0.149			1.6	2	0	45	0.5	0.0255
0.121			1.9	2	0	45	0.5	0.0255
0.123			0.4	3	0	45	0.5	0.0255
0.121			0.7	3	0	45	0.5	0.0255
0.121			1	3	0	45	0.5	0.0255
0.123			1.3	3	0	45	0.5	0.0255
0.122			1.6	3	0	45	0.5	0.0255
0.091			1.9	3	0	45	0.5	0.0255
0.095			0.4	4	0	45	0.5	0.0255
0.094			0.7	4	0	45	0.5	0.0255
0.093			1	4	0	45	0.5	0.0255
0.091			1.3	4	0	45	0.5	0.0255
0.088			1.6	4	0	45	0.5	0.0255
0.061			1.9	4	0	45	0.5	0.0255
0.32			0.4	0	0	45	1	0.0255
0.321			0.7	0	0	45	1	0.0255
0.322			1	0	0	45	1	0.0255
0.325			1.3	0	0	45	1	0.0255
0.319			1.6	0	0	45	1	0.0255
0.301			1.9	0	0	45	1	0.0255
0.287			0.4	0.5	0	45	1	0.0255
0.288			0.7	0.5	0	45	1	0.0255
0.291			1	0.5	0	45	1	0.0255
0.29			1.3	0.5	0	45	1	0.0255
0.289			1.6	0.5	0	45	1	0.0255
0.257			1.9	0.5	0	45	1	0.0255
0.231			0.4	1	0	45	1	0.0255
0.233			0.7	1	0	45	1	0.0255
0.235			1	1	0	45	1	0.0255
0.234			1.3	1	0	45	1	0.0255
0.231			1.6	1	0	45	1	0.0255
0.219	18	3	1.9	1	0	45	1	0.0255
0.178			0.4	2	0	45	1	0.0255
0.184			0.7	2	0	45	1	0.0255
0.181			1	2	0	45	1	0.0255

0.182		1.3	2	0	45	1	0.0255
0.179		1.6	2	0	45	1	0.0255
0.156		1.9	2	0	45	1	0.0255
0.131		0.4	3	0	45	1	0.0255
0.132		0.7	3	0	45	1	0.0255
0.133		1	3	0	45	1	0.0255
0.135		1.3	3	0	45	1	0.0255
0.136		1.6	3	0	45	1	0.0255
0.115		1.9	3	0	45	1	0.0255
0.101		0.4	4	0	45	1	0.0255
0.099		0.7	4	0	45	1	0.0255
0.102		1	4	0	45	1	0.0255
0.103		1.3	4	0	45	1	0.0255
0.095		1.6	4	0	45	1	0.0255
0.066		1.9	4	0	45	1	0.0255
0.422		0.4	0	0	45	2	0.0255
0.421		0.7	0	0	45	2	0.0255
0.422		1	0	0	45	2	0.0255
0.425		1.3	0	0	45	2	0.0255
0.415		1.6	0	0	45	2	0.0255
0.405		1.9	0	0	45	2	0.0255
0.354		0.4	0.5	0	45	2	0.0255
0.351		0.7	0.5	0	45	2	0.0255
0.356		1	0.5	0	45	2	0.0255
0.349		1.3	0.5	0	45	2	0.0255
0.355		1.6	0.5	0	45	2	0.0255
0.321		1.9	0.5	0	45	2	0.0255
0.305		0.4	1	0	45	2	0.0255
0.301		0.7	1	0	45	2	0.0255
0.302		1	1	0	45	2	0.0255
0.302		1.3	1	0	45	2	0.0255
0.301		1.6	1	0	45	2	0.0255
0.273	15	1.9	1	0	45	2	0.0255
0.183		0.4	2	0	45	2	0.0255
0.182		0.7	2	0	45	2	0.0255
0.181		1	2	0	45	2	0.0255
0.179		1.3	2	0	45	2	0.0255
0.182		1.6	2	0	45	2	0.0255
0.161		1.9	2	0	45	2	0.0255
0.136		0.4	3	0	45	2	0.0255
0.137		0.7	3	0	45	2	0.0255
0.136		1	3	0	45	2	0.0255
0.135		1.3	3	0	45	2	0.0255
0.129		1.6	3	0	45	2	0.0255
0.112		1.9	3	0	45	2	0.0255
0.088		0.4	4	0	45	2	0.0255
0.087		0.7	4	0	45	2	0.0255
0.089		1	4	0	45	2	0.0255

0.091		1.3	4	0	45	2	0.0255
0.087		1.6	4	0	45	2	0.0255
0.056		1.9	4	0	45	2	0.0255
0.426		0.4	0	0	100	0.5	0.0255
0.427		0.7	0	0	100	0.5	0.0255
0.426		1	0	0	100	0.5	0.0255
0.425		1.3	0	0	100	0.5	0.0255
0.421		1.6	0	0	100	0.5	0.0255
0.414		1.9	0	0	100	0.5	0.0255
0.349		0.4	0.5	0	100	0.5	0.0255
0.343		0.7	0.5	0	100	0.5	0.0255
0.341		1	0.5	0	100	0.5	0.0255
0.339		1.3	0.5	0	100	0.5	0.0255
0.345		1.6	0.5	0	100	0.5	0.0255
0.319		1.9	0.5	0	100	0.5	0.0255
0.281		0.4	1	0	100	0.5	0.0255
0.282		0.7	1	0	100	0.5	0.0255
0.281		1	1	0	100	0.5	0.0255
0.279		1.3	1	0	100	0.5	0.0255
0.281		1.6	1	0	100	0.5	0.0255
0.241	2 1	1.9	1	0	100	0.5	0.0255
0.21		0.4	2	0	100	0.5	0.0255
0.211		0.7	2	0	100	0.5	0.0255
0.212		1	2	0	100	0.5	0.0255
0.213		1.3	2	0	100	0.5	0.0255
0.211		1.6	2	0	100	0.5	0.0255
0.178		1.9	2	0	100	0.5	0.0255
0.16		0.4	3	0	100	0.5	0.0255
0.159		0.7	3	0	100	0.5	0.0255
0.156		1	3	0	100	0.5	0.0255
0.158		1.3	3	0	100	0.5	0.0255
0.159		1.6	3	0	100	0.5	0.0255
0.127		1.9	3	0	100	0.5	0.0255
0.105		0.4	4	0	100	0.5	0.0255
0.101		0.7	4	0	100	0.5	0.0255
0.098		1	4	0	100	0.5	0.0255
0.099		1.3	4	0	100	0.5	0.0255
0.097		1.6	4	0	100	0.5	0.0255
0.063		1.9	4	0	100	0.5	0.0255
0.159		0.4	0	3	33	0.5	0.0255
0.159		0.7	0	3	33	0.5	0.0255
0.161		1	0	3	33	0.5	0.0255
0.159		1.3	0	3	33	0.5	0.0255
0.158		1.6	0	3	33	0.5	0.0255
0.158		1.9	0	3	33	0.5	0.0255
0.15		0.4	0.5	3	33	0.5	0.0255
0.149		0.7	0.5	3	33	0.5	0.0255
0.148		1	0.5	3	33	0.5	0.0255

0.149		1.3	0.5	3	33	0.5	0.0255
0.151		1.6	0.5	3	33	0.5	0.0255
0.145		1.9	0.5	3	33	0.5	0.0255
0.128		0.4	1	3	33	0.5	0.0255
0.129		0.7	1	3	33	0.5	0.0255
0.128		1	1	3	33	0.5	0.0255
0.127		1.3	1	3	33	0.5	0.0255
0.125		1.6	1	3	33	0.5	0.0255
0.112	2	1.9	1	3	33	0.5	0.0255
0.101		0.4	2	3	33	0.5	0.0255
0.102		0.7	2	3	33	0.5	0.0255
0.103		1	2	3	33	0.5	0.0255
0.099		1.3	2	3	33	0.5	0.0255
0.101		1.6	2	3	33	0.5	0.0255
0.075		1.9	2	3	33	0.5	0.0255
0.074		0.4	3	3	33	0.5	0.0255
0.073		0.7	3	3	33	0.5	0.0255
0.071		1	3	3	33	0.5	0.0255
0.071		1.3	3	3	33	0.5	0.0255
0.069		1.6	3	3	33	0.5	0.0255
0.051		1.9	3	3	33	0.5	0.0255
0.049		0.4	4	3	33	0.5	0.0255
0.046		0.7	4	3	33	0.5	0.0255
0.043		1	4	3	33	0.5	0.0255
0.041		1.3	4	3	33	0.5	0.0255
0.039		1.6	4	3	33	0.5	0.0255
0.027		1.9	4	3	33	0.5	0.0255
0.235		0.4	0	3	33	1	0.0255
0.231		0.7	0	3	33	1	0.0255
0.235		1	0	3	33	1	0.0255
0.232		1.3	0	3	33	1	0.0255
0.231		1.6	0	3	33	1	0.0255
0.214		1.9	0	3	33	1	0.0255
0.208		0.4	0.5	3	33	1	0.0255
0.207		0.7	0.5	3	33	1	0.0255
0.206		1	0.5	3	33	1	0.0255
0.208		1.3	0.5	3	33	1	0.0255
0.205		1.6	0.5	3	33	1	0.0255
0.185		1.9	0.5	3	33	1	0.0255
0.169		0.4	1	3	33	1	0.0255
0.172		0.7	1	3	33	1	0.0255
0.173		1	1	3	33	1	0.0255
0.171		1.3	1	3	33	1	0.0255
0.169		1.6	1	3	33	1	0.0255
0.151	20	1.9	1	3	33	1	0.0255
0.141		0.4	2	3	33	1	0.0255
0.141		0.7	2	3	33	1	0.0255
0.142		1	2	3	33	1	0.0255

0.139	1.3	2	3	33	1	0.0255
0.145	1.6	2	3	33	1	0.0255
0.122	1.9	2	3	33	1	0.0255
0.121	0.4	3	3	33	1	0.0255
0.121	0.7	3	3	33	1	0.0255
0.121	1	3	3	33	1	0.0255
0.123	1.3	3	3	33	1	0.0255
0.121	1.6	3	3	33	1	0.0255
0.076	1.9	3	3	33	1	0.0255
0.082	0.4	4	3	33	1	0.0255
0.081	0.7	4	3	33	1	0.0255
0.079	1	4	3	33	1	0.0255
0.081	1.3	4	3	33	1	0.0255
0.076	1.6	4	3	33	1	0.0255
0.055	1.9	4	3	33	1	0.0255
0.32	0.4	0	3	33	2	0.0255
0.326	0.7	0	3	33	2	0.0255
0.325	1	0	3	33	2	0.0255
0.325	1.3	0	3	33	2	0.0255
0.321	1.6	0	3	33	2	0.0255
0.308	1.9	0	3	33	2	0.0255
0.291	0.4	0.5	3	33	2	0.0255
0.292	0.7	0.5	3	33	2	0.0255
0.289	1	0.5	3	33	2	0.0255
0.29	1.3	0.5	3	33	2	0.0255
0.286	1.6	0.5	3	33	2	0.0255
0.251	1.9	0.5	3	33	2	0.0255
0.215	0.4	1	3	33	2	0.0255
0.216	0.7	1	3	33	2	0.0255
0.217	1	1	3	33	2	0.0255
0.218	1.3	1	3	33	2	0.0255
0.215	1.6	1	3	33	2	0.0255
0.183	1.9	1	3	33	2	0.0255
0.157	0.4	2	3	33	2	0.0255
0.158	0.7	2	3	33	2	0.0255
0.157	1	2	3	33	2	0.0255
0.156	1.3	2	3	33	2	0.0255
0.157	1.6	2	3	33	2	0.0255
0.129	1.9	2	3	33	2	0.0255
0.115	0.4	3	3	33	2	0.0255
0.115	0.7	3	3	33	2	0.0255
0.116	1	3	3	33	2	0.0255
0.115	1.3	3	3	33	2	0.0255
0.116	1.6	3	3	33	2	0.0255
0.089	1.9	3	3	33	2	0.0255
0.073	0.4	4	3	33	2	0.0255
0.072	0.7	4	3	33	2	0.0255
0.071	1	4	3	33	2	0.0255

0.072			1.3	4	3	33	2	0.0255
0.069			1.6	4	3	33	2	0.0255
0.048			1.9	4	3	33	2	0.0255
0.227			0.4	0	3	45	0.5	0.0255
0.225			0.7	0	3	45	0.5	0.0255
0.226			1	0	3	45	0.5	0.0255
0.227			1.3	0	3	45	0.5	0.0255
0.225			1.6	0	3	45	0.5	0.0255
0.221			1.9	0	3	45	0.5	0.0255
0.202			0.4	0.5	3	45	0.5	0.0255
0.201			0.7	0.5	3	45	0.5	0.0255
0.203			1	0.5	3	45	0.5	0.0255
0.199			1.3	0.5	3	45	0.5	0.0255
0.195			1.6	0.5	3	45	0.5	0.0255
0.171			1.9	0.5	3	45	0.5	0.0255
0.185			0.4	1	3	45	0.5	0.0255
0.186			0.7	1	3	45	0.5	0.0255
0.187			1	1	3	45	0.5	0.0255
0.189			1.3	1	3	45	0.5	0.0255
0.183			1.6	1	3	45	0.5	0.0255
0.151	15	1	1.9	1	3	45	0.5	0.0255
0.132			0.4	2	3	45	0.5	0.0255
0.133			0.7	2	3	45	0.5	0.0255
0.132			1	2	3	45	0.5	0.0255
0.133			1.3	2	3	45	0.5	0.0255
0.135			1.6	2	3	45	0.5	0.0255
0.114			1.9	2	3	45	0.5	0.0255
0.108			0.4	3	3	45	0.5	0.0255
0.107			0.7	3	3	45	0.5	0.0255
0.106			1	3	3	45	0.5	0.0255
0.105			1.3	3	3	45	0.5	0.0255
0.104			1.6	3	3	45	0.5	0.0255
0.078			1.9	3	3	45	0.5	0.0255
0.081			0.4	4	3	45	0.5	0.0255
0.083			0.7	4	3	45	0.5	0.0255
0.085			1	4	3	45	0.5	0.0255
0.082			1.3	4	3	45	0.5	0.0255
0.079			1.6	4	3	45	0.5	0.0255
0.048			1.9	4	3	45	0.5	0.0255
0.318			0.4	0	3	45	1	0.0255
0.315			0.7	0	3	45	1	0.0255
0.315			1	0	3	45	1	0.0255
0.315			1.3	0	3	45	1	0.0255
0.318			1.6	0	3	45	1	0.0255
0.309			1.9	0	3	45	1	0.0255
0.263			0.4	0.5	3	45	1	0.0255
0.261			0.7	0.5	3	45	1	0.0255
0.26			1	0.5	3	45	1	0.0255

0.259			1.3	0.5	3	45	1	0.0255
0.257			1.6	0.5	3	45	1	0.0255
0.241			1.9	0.5	3	45	1	0.0255
0.221			0.4	1	3	45	1	0.0255
0.22			0.7	1	3	45	1	0.0255
0.221			1	1	3	45	1	0.0255
0.22			1.3	1	3	45	1	0.0255
0.219			1.6	1	3	45	1	0.0255
0.187	16	1	1.9	1	3	45	1	0.0255
0.161			0.4	2	3	45	1	0.0255
0.162			0.7	2	3	45	1	0.0255
0.161			1	2	3	45	1	0.0255
0.161			1.3	2	3	45	1	0.0255
0.162			1.6	2	3	45	1	0.0255
0.131			1.9	2	3	45	1	0.0255
0.118			0.4	3	3	45	1	0.0255
0.118			0.7	3	3	45	1	0.0255
0.121			1	3	3	45	1	0.0255
0.12			1.3	3	3	45	1	0.0255
0.118			1.6	3	3	45	1	0.0255
0.096			1.9	3	3	45	1	0.0255
0.073			0.4	4	3	45	1	0.0255
0.072			0.7	4	3	45	1	0.0255
0.073			1	4	3	45	1	0.0255
0.072			1.3	4	3	45	1	0.0255
0.071			1.6	4	3	45	1	0.0255
0.048			1.9	4	3	45	1	0.0255
0.43			0.4	0	3	45	2	0.0255
0.429			0.7	0	3	45	2	0.0255
0.428			1	0	3	45	2	0.0255
0.427			1.3	0	3	45	2	0.0255
0.426			1.6	0	3	45	2	0.0255
0.401			1.9	0	3	45	2	0.0255
0.339			0.4	0.5	3	45	2	0.0255
0.34			0.7	0.5	3	45	2	0.0255
0.338			1	0.5	3	45	2	0.0255
0.337			1.3	0.5	3	45	2	0.0255
0.335			1.6	0.5	3	45	2	0.0255
0.302			1.9	0.5	3	45	2	0.0255
0.275			0.4	1	3	45	2	0.0255
0.274			0.7	1	3	45	2	0.0255
0.273			1	1	3	45	2	0.0255
0.27			1.3	1	3	45	2	0.0255
0.27			1.6	1	3	45	2	0.0255
0.252	15	1	1.9	1	3	45	2	0.0255
0.157			0.4	2	3	45	2	0.0255
0.161			0.7	2	3	45	2	0.0255
0.159			1	2	3	45	2	0.0255

0.162		1.3	2	3	45	2	0.0255
0.163		1.6	2	3	45	2	0.0255
0.128		1.9	2	3	45	2	0.0255
0.122		0.4	3	3	45	2	0.0255
0.121		0.7	3	3	45	2	0.0255
0.121		1	3	3	45	2	0.0255
0.12		1.3	3	3	45	2	0.0255
0.12		1.6	3	3	45	2	0.0255
0.088		1.9	3	3	45	2	0.0255
0.073		0.4	4	3	45	2	0.0255
0.072		0.7	4	3	45	2	0.0255
0.071		1	4	3	45	2	0.0255
0.072		1.3	4	3	45	2	0.0255
0.07		1.6	4	3	45	2	0.0255
0.04		1.9	4	3	45	2	0.0255
0.411		0.4	0	3	100	0.5	0.0255
0.411		0.7	0	3	100	0.5	0.0255
0.412		1	0	3	100	0.5	0.0255
0.411		1.3	0	3	100	0.5	0.0255
0.412		1.6	0	3	100	0.5	0.0255
0.406		1.9	0	3	100	0.5	0.0255
0.322		0.4	0.5	3	100	0.5	0.0255
0.325		0.7	0.5	3	100	0.5	0.0255
0.321		1	0.5	3	100	0.5	0.0255
0.322		1.3	0.5	3	100	0.5	0.0255
0.321		1.6	0.5	3	100	0.5	0.0255
0.277		1.9	0.5	3	100	0.5	0.0255
0.249		0.4	1	3	100	0.5	0.0255
0.248		0.7	1	3	100	0.5	0.0255
0.247		1	1	3	100	0.5	0.0255
0.246		1.3	1	3	100	0.5	0.0255
0.241		1.6	1	3	100	0.5	0.0255
0.211	4	1.9	1	3	100	0.5	0.0255
0.178		0.4	2	3	100	0.5	0.0255
0.175		0.7	2	3	100	0.5	0.0255
0.174		1	2	3	100	0.5	0.0255
0.175		1.3	2	3	100	0.5	0.0255
0.176		1.6	2	3	100	0.5	0.0255
0.144		1.9	2	3	100	0.5	0.0255
0.149		0.4	3	3	100	0.5	0.0255
0.146		0.7	3	3	100	0.5	0.0255
0.143		1	3	3	100	0.5	0.0255
0.141		1.3	3	3	100	0.5	0.0255
0.139		1.6	3	3	100	0.5	0.0255
0.112		1.9	3	3	100	0.5	0.0255
0.091		0.4	4	3	100	0.5	0.0255
0.092		0.7	4	3	100	0.5	0.0255
0.089		1	4	3	100	0.5	0.0255

0.087			1.3	4	3	100	0.5	0.0255
0.085			1.6	4	3	100	0.5	0.0255
0.059			1.9	4	3	100	0.5	0.0255
0.156			0.4	0	5	33	0.5	0.0255
0.158			0.7	0	5	33	0.5	0.0255
0.158			1	0	5	33	0.5	0.0255
0.157			1.3	0	5	33	0.5	0.0255
0.157			1.6	0	5	33	0.5	0.0255
0.145			1.9	0	5	33	0.5	0.0255
0.127			0.4	0.5	5	33	0.5	0.0255
0.128			0.7	0.5	5	33	0.5	0.0255
0.126			1	0.5	5	33	0.5	0.0255
0.125			1.3	0.5	5	33	0.5	0.0255
0.126			1.6	0.5	5	33	0.5	0.0255
0.102			1.9	0.5	5	33	0.5	0.0255
0.106			0.4	1	5	33	0.5	0.0255
0.105			0.7	1	5	33	0.5	0.0255
0.105			1	1	5	33	0.5	0.0255
0.106			1.3	1	5	33	0.5	0.0255
0.104			1.6	1	5	33	0.5	0.0255
0.075	20	1	1.9	1	5	33	0.5	0.0255
0.078			0.4	2	5	33	0.5	0.0255
0.079			0.7	2	5	33	0.5	0.0255
0.078			1	2	5	33	0.5	0.0255
0.079			1.3	2	5	33	0.5	0.0255
0.078			1.6	2	5	33	0.5	0.0255
0.049			1.9	2	5	33	0.5	0.0255
0.044			0.4	3	5	33	0.5	0.0255
0.043			0.7	3	5	33	0.5	0.0255
0.042			1	3	5	33	0.5	0.0255
0.043			1.3	3	5	33	0.5	0.0255
0.041			1.6	3	5	33	0.5	0.0255
0.021			1.9	3	5	33	0.5	0.0255
0.019			0.4	4	5	33	0.5	0.0255
0.018			0.7	4	5	33	0.5	0.0255
0.017			1	4	5	33	0.5	0.0255
0.015			1.3	4	5	33	0.5	0.0255
0.015			1.6	4	5	33	0.5	0.0255
0.003			1.9	4	5	33	0.5	0.0255
0.227			0.4	0	5	33	1	0.0255
0.225			0.7	0	5	33	1	0.0255
0.228			1	0	5	33	1	0.0255
0.226			1.3	0	5	33	1	0.0255
0.225			1.6	0	5	33	1	0.0255
0.208			1.9	0	5	33	1	0.0255
0.183			0.4	0.5	5	33	1	0.0255
0.182			0.7	0.5	5	33	1	0.0255
0.181			1	0.5	5	33	1	0.0255

0.183		1.3	0.5	5	33	1	0.0255
0.181		1.6	0.5	5	33	1	0.0255
0.165		1.9	0.5	5	33	1	0.0255
0.151		0.4	1	5	33	1	0.0255
0.15		0.7	1	5	33	1	0.0255
0.151		1	1	5	33	1	0.0255
0.149		1.3	1	5	33	1	0.0255
0.15		1.6	1	5	33	1	0.0255
0.126	19	1.9	1	5	33	1	0.0255
0.114		0.4	2	5	33	1	0.0255
0.115		0.7	2	5	33	1	0.0255
0.116		1	2	5	33	1	0.0255
0.117		1.3	2	5	33	1	0.0255
0.116		1.6	2	5	33	1	0.0255
0.079		1.9	2	5	33	1	0.0255
0.091		0.4	3	5	33	1	0.0255
0.092		0.7	3	5	33	1	0.0255
0.092		1	3	5	33	1	0.0255
0.093		1.3	3	5	33	1	0.0255
0.091		1.6	3	5	33	1	0.0255
0.053		1.9	3	5	33	1	0.0255
0.048		0.4	4	5	33	1	0.0255
0.047		0.7	4	5	33	1	0.0255
0.049		1	4	5	33	1	0.0255
0.046		1.3	4	5	33	1	0.0255
0.045		1.6	4	5	33	1	0.0255
0.016		1.9	4	5	33	1	0.0255
0.312		0.4	0	5	33	2	0.0255
0.315		0.7	0	5	33	2	0.0255
0.313		1	0	5	33	2	0.0255
0.315		1.3	0	5	33	2	0.0255
0.312		1.6	0	5	33	2	0.0255
0.299		1.9	0	5	33	2	0.0255
0.275		0.4	0.5	5	33	2	0.0255
0.276		0.7	0.5	5	33	2	0.0255
0.273		1	0.5	5	33	2	0.0255
0.269		1.3	0.5	5	33	2	0.0255
0.266		1.6	0.5	5	33	2	0.0255
0.236		1.9	0.5	5	33	2	0.0255
0.186		0.4	1	5	33	2	0.0255
0.189		0.7	1	5	33	2	0.0255
0.188		1	1	5	33	2	0.0255
0.185		1.3	1	5	33	2	0.0255
0.181		1.6	1	5	33	2	0.0255
0.156	20	1.9	1	5	33	2	0.0255
0.133		0.4	2	5	33	2	0.0255
0.136		0.7	2	5	33	2	0.0255
0.133		1	2	5	33	2	0.0255

0.132		1.3	2	5	33	2	0.0255
0.133		1.6	2	5	33	2	0.0255
0.114		1.9	2	5	33	2	0.0255
0.089		0.4	3	5	33	2	0.0255
0.085		0.7	3	5	33	2	0.0255
0.083		1	3	5	33	2	0.0255
0.081		1.3	3	5	33	2	0.0255
0.082		1.6	3	5	33	2	0.0255
0.058		1.9	3	5	33	2	0.0255
0.046		0.4	4	5	33	2	0.0255
0.045		0.7	4	5	33	2	0.0255
0.043		1	4	5	33	2	0.0255
0.042		1.3	4	5	33	2	0.0255
0.039		1.6	4	5	33	2	0.0255
0.018		1.9	4	5	33	2	0.0255
0.219		0.4	0	5	45	0.5	0.0255
0.218		0.7	0	5	45	0.5	0.0255
0.217		1	0	5	45	0.5	0.0255
0.215		1.3	0	5	45	0.5	0.0255
0.216		1.6	0	5	45	0.5	0.0255
0.199		1.9	0	5	45	0.5	0.0255
0.183		0.4	0.5	5	45	0.5	0.0255
0.185		0.7	0.5	5	45	0.5	0.0255
0.183		1	0.5	5	45	0.5	0.0255
0.181		1.3	0.5	5	45	0.5	0.0255
0.182		1.6	0.5	5	45	0.5	0.0255
0.163		1.9	0.5	5	45	0.5	0.0255
0.149		0.4	1	5	45	0.5	0.0255
0.148		0.7	1	5	45	0.5	0.0255
0.147		1	1	5	45	0.5	0.0255
0.148		1.3	1	5	45	0.5	0.0255
0.149		1.6	1	5	45	0.5	0.0255
0.123	15	1.9	1	5	45	0.5	0.0255
0.111		0.4	2	5	45	0.5	0.0255
0.112		0.7	2	5	45	0.5	0.0255
0.112		1	2	5	45	0.5	0.0255
0.109		1.3	2	5	45	0.5	0.0255
0.108		1.6	2	5	45	0.5	0.0255
0.071		1.9	2	5	45	0.5	0.0255
0.072		0.4	3	5	45	0.5	0.0255
0.07		0.7	3	5	45	0.5	0.0255
0.07		1	3	5	45	0.5	0.0255
0.071		1.3	3	5	45	0.5	0.0255
0.072		1.6	3	5	45	0.5	0.0255
0.041		1.9	3	5	45	0.5	0.0255
0.026		0.4	4	5	45	0.5	0.0255
0.029		0.7	4	5	45	0.5	0.0255
0.028		1	4	5	45	0.5	0.0255

0.027			1.3	4	5	45	0.5	0.0255
0.025			1.6	4	5	45	0.5	0.0255
0.011			1.9	4	5	45	0.5	0.0255
0.322			0.4	0	5	45	1	0.0255
0.325			0.7	0	5	45	1	0.0255
0.326			1	0	5	45	1	0.0255
0.325			1.3	0	5	45	1	0.0255
0.323			1.6	0	5	45	1	0.0255
0.301			1.9	0	5	45	1	0.0255
0.258			0.4	0.5	5	45	1	0.0255
0.257			0.7	0.5	5	45	1	0.0255
0.255			1	0.5	5	45	1	0.0255
0.253			1.3	0.5	5	45	1	0.0255
0.25			1.6	0.5	5	45	1	0.0255
0.216			1.9	0.5	5	45	1	0.0255
0.191			0.4	1	5	45	1	0.0255
0.19			0.7	1	5	45	1	0.0255
0.189			1	1	5	45	1	0.0255
0.187			1.3	1	5	45	1	0.0255
0.186			1.6	1	5	45	1	0.0255
0.152	15	1	1.9	1	5	45	1	0.0255
0.129			0.4	2	5	45	1	0.0255
0.128			0.7	2	5	45	1	0.0255
0.13			1	2	5	45	1	0.0255
0.128			1.3	2	5	45	1	0.0255
0.128			1.6	2	5	45	1	0.0255
0.101			1.9	2	5	45	1	0.0255
0.098			0.4	3	5	45	1	0.0255
0.094			0.7	3	5	45	1	0.0255
0.091			1	3	5	45	1	0.0255
0.088			1.3	3	5	45	1	0.0255
0.083			1.6	3	5	45	1	0.0255
0.061			1.9	3	5	45	1	0.0255
0.051			0.4	4	5	45	1	0.0255
0.05			0.7	4	5	45	1	0.0255
0.05			1	4	5	45	1	0.0255
0.049			1.3	4	5	45	1	0.0255
0.043			1.6	4	5	45	1	0.0255
0.017			1.9	4	5	45	1	0.0255
0.418			0.4	0	5	45	2	0.0255
0.415			0.7	0	5	45	2	0.0255
0.415			1	0	5	45	2	0.0255
0.416			1.3	0	5	45	2	0.0255
0.417			1.6	0	5	45	2	0.0255
0.4			1.9	0	5	45	2	0.0255
0.279			0.4	0.5	5	45	2	0.0255
0.275			0.7	0.5	5	45	2	0.0255
0.273			1	0.5	5	45	2	0.0255

0.27			1.3	0.5	5	45	2	0.0255
0.271			1.6	0.5	5	45	2	0.0255
0.239			1.9	0.5	5	45	2	0.0255
0.211			0.4	1	5	45	2	0.0255
0.212			0.7	1	5	45	2	0.0255
0.213			1	1	5	45	2	0.0255
0.21			1.3	1	5	45	2	0.0255
0.21			1.6	1	5	45	2	0.0255
0.165	18	3	1.9	1	5	45	2	0.0255
0.133			0.4	2	5	45	2	0.0255
0.13			0.7	2	5	45	2	0.0255
0.135			1	2	5	45	2	0.0255
0.131			1.3	2	5	45	2	0.0255
0.129			1.6	2	5	45	2	0.0255
0.102			1.9	2	5	45	2	0.0255
0.095			0.4	3	5	45	2	0.0255
0.091			0.7	3	5	45	2	0.0255
0.09			1	3	5	45	2	0.0255
0.089			1.3	3	5	45	2	0.0255
0.088			1.6	3	5	45	2	0.0255
0.053			1.9	3	5	45	2	0.0255
0.058			0.4	4	5	45	2	0.0255
0.055			0.7	4	5	45	2	0.0255
0.053			1	4	5	45	2	0.0255
0.049			1.3	4	5	45	2	0.0255
0.05			1.6	4	5	45	2	0.0255
0.018			1.9	4	5	45	2	0.0255
0.421			0.4	0	5	100	0.5	0.0255
0.418			0.7	0	5	100	0.5	0.0255
0.42			1	0	5	100	0.5	0.0255
0.419			1.3	0	5	100	0.5	0.0255
0.415			1.6	0	5	100	0.5	0.0255
0.388			1.9	0	5	100	0.5	0.0255
0.29			0.4	0.5	5	100	0.5	0.0255
0.292			0.7	0.5	5	100	0.5	0.0255
0.292			1	0.5	5	100	0.5	0.0255
0.291			1.3	0.5	5	100	0.5	0.0255
0.283			1.6	0.5	5	100	0.5	0.0255
0.247			1.9	0.5	5	100	0.5	0.0255
0.186			0.4	1	5	100	0.5	0.0255
0.187			0.7	1	5	100	0.5	0.0255
0.185			1	1	5	100	0.5	0.0255
0.183			1.3	1	5	100	0.5	0.0255
0.183			1.6	1	5	100	0.5	0.0255
0.151	2	1	1.9	1	5	100	0.5	0.0255
0.124			0.4	2	5	100	0.5	0.0255
0.125			0.7	2	5	100	0.5	0.0255
0.126			1	2	5	100	0.5	0.0255

0.125		1.3	2	5	100	0.5	0.0255
0.124		1.6	2	5	100	0.5	0.0255
0.109		1.9	2	5	100	0.5	0.0255
0.091		0.4	3	5	100	0.5	0.0255
0.092		0.7	3	5	100	0.5	0.0255
0.09		1	3	5	100	0.5	0.0255
0.09		1.3	3	5	100	0.5	0.0255
0.089		1.6	3	5	100	0.5	0.0255
0.058		1.9	3	5	100	0.5	0.0255
0.051		0.4	4	5	100	0.5	0.0255
0.05		0.7	4	5	100	0.5	0.0255
0.049		1	4	5	100	0.5	0.0255
0.048		1.3	4	5	100	0.5	0.0255
0.045		1.6	4	5	100	0.5	0.0255
0.019		1.9	4	5	100	0.5	0.0255
0.166		0.4	0	0	33	0.5	0.0078
0.167		0.7	0	0	33	0.5	0.0078
0.165		1	0	0	33	0.5	0.0078
0.165		1.3	0	0	33	0.5	0.0078
0.163		1.6	0	0	33	0.5	0.0078
0.161		1.9	0	0	33	0.5	0.0078
0.153		0.4	0.5	0	33	0.5	0.0078
0.151		0.7	0.5	0	33	0.5	0.0078
0.152		1	0.5	0	33	0.5	0.0078
0.153		1.3	0.5	0	33	0.5	0.0078
0.154		1.6	0.5	0	33	0.5	0.0078
0.151		1.9	0.5	0	33	0.5	0.0078
0.146		0.4	1	0	33	0.5	0.0078
0.147		0.7	1	0	33	0.5	0.0078
0.143		1	1	0	33	0.5	0.0078
0.139		1.3	1	0	33	0.5	0.0078
0.138		1.6	1	0	33	0.5	0.0078
0.122	22 1	1.9	1	0	33	0.5	0.0078
0.116		0.4	2	0	33	0.5	0.0078
0.115		0.7	2	0	33	0.5	0.0078
0.114		1	2	0	33	0.5	0.0078
0.117		1.3	2	0	33	0.5	0.0078
0.114		1.6	2	0	33	0.5	0.0078
0.101		1.9	2	0	33	0.5	0.0078
0.087		0.4	3	0	33	0.5	0.0078
0.087		0.7	3	0	33	0.5	0.0078
0.085		1	3	0	33	0.5	0.0078
0.083		1.3	3	0	33	0.5	0.0078
0.085		1.6	3	0	33	0.5	0.0078
0.066		1.9	3	0	33	0.5	0.0078
0.065		0.4	4	0	33	0.5	0.0078
0.061		0.7	4	0	33	0.5	0.0078
0.059		1	4	0	33	0.5	0.0078

0.06			1.3	4	0	33	0.5	0.0078
0.049			1.6	4	0	33	0.5	0.0078
0.029			1.9	4	0	33	0.5	0.0078
0.246			0.4	0	0	33	1	0.0078
0.251			0.7	0	0	33	1	0.0078
0.247			1	0	0	33	1	0.0078
0.249			1.3	0	0	33	1	0.0078
0.251			1.6	0	0	33	1	0.0078
0.248			1.9	0	0	33	1	0.0078
0.231			0.4	0.5	0	33	1	0.0078
0.229			0.7	0.5	0	33	1	0.0078
0.235			1	0.5	0	33	1	0.0078
0.236			1.3	0.5	0	33	1	0.0078
0.234			1.6	0.5	0	33	1	0.0078
0.211			1.9	0.5	0	33	1	0.0078
0.201			0.4	1	0	33	1	0.0078
0.202			0.7	1	0	33	1	0.0078
0.201			1	1	0	33	1	0.0078
0.2			1.3	1	0	33	1	0.0078
0.198			1.6	1	0	33	1	0.0078
0.179	21	1	1.9	1	0	33	1	0.0078
0.161			0.4	2	0	33	1	0.0078
0.159			0.7	2	0	33	1	0.0078
0.157			1	2	0	33	1	0.0078
0.154			1.3	2	0	33	1	0.0078
0.152			1.6	2	0	33	1	0.0078
0.139			1.9	2	0	33	1	0.0078
0.135			0.4	3	0	33	1	0.0078
0.136			0.7	3	0	33	1	0.0078
0.137			1	3	0	33	1	0.0078
0.138			1.3	3	0	33	1	0.0078
0.134			1.6	3	0	33	1	0.0078
0.101			1.9	3	0	33	1	0.0078
0.094			0.4	4	0	33	1	0.0078
0.093			0.7	4	0	33	1	0.0078
0.089			1	4	0	33	1	0.0078
0.088			1.3	4	0	33	1	0.0078
0.089			1.6	4	0	33	1	0.0078
0.044			1.9	4	0	33	1	0.0078
0.336			0.4	0	0	33	2	0.0078
0.335			0.7	0	0	33	2	0.0078
0.337			1	0	0	33	2	0.0078
0.335			1.3	0	0	33	2	0.0078
0.334			1.6	0	0	33	2	0.0078
0.311			1.9	0	0	33	2	0.0078
0.315			0.4	0.5	0	33	2	0.0078
0.312			0.7	0.5	0	33	2	0.0078
0.315			1	0.5	0	33	2	0.0078

0.311			1.3	0.5	0	33	2	0.0078
0.312			1.6	0.5	0	33	2	0.0078
0.271			1.9	0.5	0	33	2	0.0078
0.271			0.4	1	0	33	2	0.0078
0.269			0.7	1	0	33	2	0.0078
0.268			1	1	0	33	2	0.0078
0.271			1.3	1	0	33	2	0.0078
0.265			1.6	1	0	33	2	0.0078
0.219	24	3	1.9	1	0	33	2	0.0078
0.171			0.4	2	0	33	2	0.0078
0.172			0.7	2	0	33	2	0.0078
0.169			1	2	0	33	2	0.0078
0.171			1.3	2	0	33	2	0.0078
0.172			1.6	2	0	33	2	0.0078
0.142			1.9	2	0	33	2	0.0078
0.134			0.4	3	0	33	2	0.0078
0.133			0.7	3	0	33	2	0.0078
0.135			1	3	0	33	2	0.0078
0.131			1.3	3	0	33	2	0.0078
0.129			1.6	3	0	33	2	0.0078
0.085			1.9	3	0	33	2	0.0078
0.092			0.4	4	0	33	2	0.0078
0.093			0.7	4	0	33	2	0.0078
0.091			1	4	0	33	2	0.0078
0.089			1.3	4	0	33	2	0.0078
0.085			1.6	4	0	33	2	0.0078
0.044			1.9	4	0	33	2	0.0078
0.236			0.4	0	0	45	0.5	0.0078
0.234			0.7	0	0	45	0.5	0.0078
0.232			1	0	0	45	0.5	0.0078
0.235			1.3	0	0	45	0.5	0.0078
0.231			1.6	0	0	45	0.5	0.0078
0.228			1.9	0	0	45	0.5	0.0078
0.218			0.4	0.5	0	45	0.5	0.0078
0.217			0.7	0.5	0	45	0.5	0.0078
0.219			1	0.5	0	45	0.5	0.0078
0.221			1.3	0.5	0	45	0.5	0.0078
0.217			1.6	0.5	0	45	0.5	0.0078
0.199			1.9	0.5	0	45	0.5	0.0078
0.207			0.4	1	0	45	0.5	0.0078
0.208			0.7	1	0	45	0.5	0.0078
0.211			1	1	0	45	0.5	0.0078
0.205			1.3	1	0	45	0.5	0.0078
0.206			1.6	1	0	45	0.5	0.0078
0.178	14	0	1.9	1	0	45	0.5	0.0078
0.161			0.4	2	0	45	0.5	0.0078
0.159			0.7	2	0	45	0.5	0.0078
0.161			1	2	0	45	0.5	0.0078

0.158		1.3	2	0	45	0.5	0.0078
0.158		1.6	2	0	45	0.5	0.0078
0.132		1.9	2	0	45	0.5	0.0078
0.126		0.4	3	0	45	0.5	0.0078
0.127		0.7	3	0	45	0.5	0.0078
0.129		1	3	0	45	0.5	0.0078
0.131		1.3	3	0	45	0.5	0.0078
0.125		1.6	3	0	45	0.5	0.0078
0.098		1.9	3	0	45	0.5	0.0078
0.095		0.4	4	0	45	0.5	0.0078
0.096		0.7	4	0	45	0.5	0.0078
0.097		1	4	0	45	0.5	0.0078
0.095		1.3	4	0	45	0.5	0.0078
0.091		1.6	4	0	45	0.5	0.0078
0.052		1.9	4	0	45	0.5	0.0078
0.349		0.4	0	0	45	1	0.0078
0.349		0.7	0	0	45	1	0.0078
0.351		1	0	0	45	1	0.0078
0.348		1.3	0	0	45	1	0.0078
0.349		1.6	0	0	45	1	0.0078
0.335		1.9	0	0	45	1	0.0078
0.301		0.4	0.5	0	45	1	0.0078
0.302		0.7	0.5	0	45	1	0.0078
0.299		1	0.5	0	45	1	0.0078
0.301		1.3	0.5	0	45	1	0.0078
0.3		1.6	0.5	0	45	1	0.0078
0.275		1.9	0.5	0	45	1	0.0078
0.251		0.4	1	0	45	1	0.0078
0.251		0.7	1	0	45	1	0.0078
0.252		1	1	0	45	1	0.0078
0.249		1.3	1	0	45	1	0.0078
0.251		1.6	1	0	45	1	0.0078
0.231	17	1.9	1	0	45	1	0.0078
0.186		0.4	2	0	45	1	0.0078
0.187		0.7	2	0	45	1	0.0078
0.186		1	2	0	45	1	0.0078
0.186		1.3	2	0	45	1	0.0078
0.187		1.6	2	0	45	1	0.0078
0.151		1.9	2	0	45	1	0.0078
0.132		0.4	3	0	45	1	0.0078
0.133		0.7	3	0	45	1	0.0078
0.133		1	3	0	45	1	0.0078
0.133		1.3	3	0	45	1	0.0078
0.134		1.6	3	0	45	1	0.0078
0.108		1.9	3	0	45	1	0.0078
0.103		0.4	4	0	45	1	0.0078
0.105		0.7	4	0	45	1	0.0078
0.101		1	4	0	45	1	0.0078

0.098		1.3	4	0	45	1	0.0078
0.099		1.6	4	0	45	1	0.0078
0.071		1.9	4	0	45	1	0.0078
0.427		0.4	0	0	45	2	0.0078
0.428		0.7	0	0	45	2	0.0078
0.425		1	0	0	45	2	0.0078
0.427		1.3	0	0	45	2	0.0078
0.427		1.6	0	0	45	2	0.0078
0.412		1.9	0	0	45	2	0.0078
0.392		0.4	0.5	0	45	2	0.0078
0.393		0.7	0.5	0	45	2	0.0078
0.393		1	0.5	0	45	2	0.0078
0.388		1.3	0.5	0	45	2	0.0078
0.387		1.6	0.5	0	45	2	0.0078
0.369		1.9	0.5	0	45	2	0.0078
0.322		0.4	1	0	45	2	0.0078
0.321		0.7	1	0	45	2	0.0078
0.325		1	1	0	45	2	0.0078
0.318		1.3	1	0	45	2	0.0078
0.317		1.6	1	0	45	2	0.0078
0.289	19 3	1.9	1	0	45	2	0.0078
0.191		0.4	2	0	45	2	0.0078
0.192		0.7	2	0	45	2	0.0078
0.188		1	2	0	45	2	0.0078
0.189		1.3	2	0	45	2	0.0078
0.191		1.6	2	0	45	2	0.0078
0.151		1.9	2	0	45	2	0.0078
0.139		0.4	3	0	45	2	0.0078
0.141		0.7	3	0	45	2	0.0078
0.14		1	3	0	45	2	0.0078
0.138		1.3	3	0	45	2	0.0078
0.141		1.6	3	0	45	2	0.0078
0.116		1.9	3	0	45	2	0.0078
0.089		0.4	4	0	45	2	0.0078
0.091		0.7	4	0	45	2	0.0078
0.088		1	4	0	45	2	0.0078
0.079		1.3	4	0	45	2	0.0078
0.075		1.6	4	0	45	2	0.0078
0.049		1.9	4	0	45	2	0.0078
0.431		0.4	0	0	100	0.5	0.0078
0.429		0.7	0	0	100	0.5	0.0078
0.428		1	0	0	100	0.5	0.0078
0.432		1.3	0	0	100	0.5	0.0078
0.431		1.6	0	0	100	0.5	0.0078
0.409		1.9	0	0	100	0.5	0.0078
0.361		0.4	0.5	0	100	0.5	0.0078
0.362		0.7	0.5	0	100	0.5	0.0078
0.359		1	0.5	0	100	0.5	0.0078

0.358		1.3	0.5	0	100	0.5	0.0078
0.361		1.6	0.5	0	100	0.5	0.0078
0.33		1.9	0.5	0	100	0.5	0.0078
0.292		0.4	1	0	100	0.5	0.0078
0.292		0.7	1	0	100	0.5	0.0078
0.291		1	1	0	100	0.5	0.0078
0.293		1.3	1	0	100	0.5	0.0078
0.291		1.6	1	0	100	0.5	0.0078
0.253	2	1.9	1	0	100	0.5	0.0078
0.222		0.4	2	0	100	0.5	0.0078
0.226		0.7	2	0	100	0.5	0.0078
0.225		1	2	0	100	0.5	0.0078
0.225		1.3	2	0	100	0.5	0.0078
0.226		1.6	2	0	100	0.5	0.0078
0.186		1.9	2	0	100	0.5	0.0078
0.171		0.4	3	0	100	0.5	0.0078
0.169		0.7	3	0	100	0.5	0.0078
0.169		1	3	0	100	0.5	0.0078
0.161		1.3	3	0	100	0.5	0.0078
0.159		1.6	3	0	100	0.5	0.0078
0.125		1.9	3	0	100	0.5	0.0078
0.095		0.4	4	0	100	0.5	0.0078
0.089		0.7	4	0	100	0.5	0.0078
0.091		1	4	0	100	0.5	0.0078
0.098		1.3	4	0	100	0.5	0.0078
0.095		1.6	4	0	100	0.5	0.0078
0.061		1.9	4	0	100	0.5	0.0078
0.163		0.4	0	3	33	0.5	0.0078
0.161		0.7	0	3	33	0.5	0.0078
0.161		1	0	3	33	0.5	0.0078
0.159		1.3	0	3	33	0.5	0.0078
0.161		1.6	0	3	33	0.5	0.0078
0.159		1.9	0	3	33	0.5	0.0078
0.151		0.4	0.5	3	33	0.5	0.0078
0.151		0.7	0.5	3	33	0.5	0.0078
0.148		1	0.5	3	33	0.5	0.0078
0.149		1.3	0.5	3	33	0.5	0.0078
0.151		1.6	0.5	3	33	0.5	0.0078
0.142		1.9	0.5	3	33	0.5	0.0078
0.135		0.4	1	3	33	0.5	0.0078
0.133		0.7	1	3	33	0.5	0.0078
0.133		1	1	3	33	0.5	0.0078
0.131		1.3	1	3	33	0.5	0.0078
0.125		1.6	1	3	33	0.5	0.0078
0.117	21	1.9	1	3	33	0.5	0.0078
0.106		0.4	2	3	33	0.5	0.0078
0.105		0.7	2	3	33	0.5	0.0078
0.101		1	2	3	33	0.5	0.0078

0.098		1.3	2	3	33	0.5	0.0078
0.095		1.6	2	3	33	0.5	0.0078
0.077		1.9	2	3	33	0.5	0.0078
0.081		0.4	3	3	33	0.5	0.0078
0.082		0.7	3	3	33	0.5	0.0078
0.079		1	3	3	33	0.5	0.0078
0.081		1.3	3	3	33	0.5	0.0078
0.075		1.6	3	3	33	0.5	0.0078
0.06		1.9	3	3	33	0.5	0.0078
0.05		0.4	4	3	33	0.5	0.0078
0.051		0.7	4	3	33	0.5	0.0078
0.048		1	4	3	33	0.5	0.0078
0.045		1.3	4	3	33	0.5	0.0078
0.044		1.6	4	3	33	0.5	0.0078
0.031		1.9	4	3	33	0.5	0.0078
0.24		0.4	0	3	33	1	0.0078
0.239		0.7	0	3	33	1	0.0078
0.239		1	0	3	33	1	0.0078
0.24		1.3	0	3	33	1	0.0078
0.238		1.6	0	3	33	1	0.0078
0.221		1.9	0	3	33	1	0.0078
0.217		0.4	0.5	3	33	1	0.0078
0.215		0.7	0.5	3	33	1	0.0078
0.216		1	0.5	3	33	1	0.0078
0.215		1.3	0.5	3	33	1	0.0078
0.214		1.6	0.5	3	33	1	0.0078
0.193		1.9	0.5	3	33	1	0.0078
0.175		0.4	1	3	33	1	0.0078
0.171		0.7	1	3	33	1	0.0078
0.172		1	1	3	33	1	0.0078
0.175		1.3	1	3	33	1	0.0078
0.171		1.6	1	3	33	1	0.0078
0.159	22	1.9	1	3	33	1	0.0078
0.145		0.4	2	3	33	1	0.0078
0.144		0.7	2	3	33	1	0.0078
0.144		1	2	3	33	1	0.0078
0.144		1.3	2	3	33	1	0.0078
0.143		1.6	2	3	33	1	0.0078
0.126		1.9	2	3	33	1	0.0078
0.125		0.4	3	3	33	1	0.0078
0.124		0.7	3	3	33	1	0.0078
0.126		1	3	3	33	1	0.0078
0.122		1.3	3	3	33	1	0.0078
0.121		1.6	3	3	33	1	0.0078
0.085		1.9	3	3	33	1	0.0078
0.085		0.4	4	3	33	1	0.0078
0.084		0.7	4	3	33	1	0.0078
0.084		1	4	3	33	1	0.0078

0.079			1.3	4	3	33	1	0.0078
0.075			1.6	4	3	33	1	0.0078
0.049			1.9	4	3	33	1	0.0078
0.331			0.4	0	3	33	2	0.0078
0.332			0.7	0	3	33	2	0.0078
0.331			1	0	3	33	2	0.0078
0.331			1.3	0	3	33	2	0.0078
0.33			1.6	0	3	33	2	0.0078
0.314			1.9	0	3	33	2	0.0078
0.305			0.4	0.5	3	33	2	0.0078
0.306			0.7	0.5	3	33	2	0.0078
0.305			1	0.5	3	33	2	0.0078
0.303			1.3	0.5	3	33	2	0.0078
0.303			1.6	0.5	3	33	2	0.0078
0.267			1.9	0.5	3	33	2	0.0078
0.231			0.4	1	3	33	2	0.0078
0.232			0.7	1	3	33	2	0.0078
0.233			1	1	3	33	2	0.0078
0.231			1.3	1	3	33	2	0.0078
0.232			1.6	1	3	33	2	0.0078
0.192	21	1	1.9	1	3	33	2	0.0078
0.161			0.4	2	3	33	2	0.0078
0.16			0.7	2	3	33	2	0.0078
0.161			1	2	3	33	2	0.0078
0.159			1.3	2	3	33	2	0.0078
0.16			1.6	2	3	33	2	0.0078
0.138			1.9	2	3	33	2	0.0078
0.122			0.4	3	3	33	2	0.0078
0.123			0.7	3	3	33	2	0.0078
0.123			1	3	3	33	2	0.0078
0.122			1.3	3	3	33	2	0.0078
0.121			1.6	3	3	33	2	0.0078
0.096			1.9	3	3	33	2	0.0078
0.091			0.4	4	3	33	2	0.0078
0.09			0.7	4	3	33	2	0.0078
0.091			1	4	3	33	2	0.0078
0.09			1.3	4	3	33	2	0.0078
0.085			1.6	4	3	33	2	0.0078
0.053			1.9	4	3	33	2	0.0078
0.231			0.4	0	3	45	0.5	0.0078
0.232			0.7	0	3	45	0.5	0.0078
0.233			1	0	3	45	0.5	0.0078
0.231			1.3	0	3	45	0.5	0.0078
0.232			1.6	0	3	45	0.5	0.0078
0.226			1.9	0	3	45	0.5	0.0078
0.209			0.4	0.5	3	45	0.5	0.0078
0.208			0.7	0.5	3	45	0.5	0.0078
0.208			1	0.5	3	45	0.5	0.0078

0.207			1.3	0.5	3	45	0.5	0.0078
0.205			1.6	0.5	3	45	0.5	0.0078
0.184			1.9	0.5	3	45	0.5	0.0078
0.185			0.4	1	3	45	0.5	0.0078
0.184			0.7	1	3	45	0.5	0.0078
0.187			1	1	3	45	0.5	0.0078
0.183			1.3	1	3	45	0.5	0.0078
0.181			1.6	1	3	45	0.5	0.0078
0.167	19	3	1.9	1	3	45	0.5	0.0078
0.138			0.4	2	3	45	0.5	0.0078
0.139			0.7	2	3	45	0.5	0.0078
0.141			1	2	3	45	0.5	0.0078
0.136			1.3	2	3	45	0.5	0.0078
0.133			1.6	2	3	45	0.5	0.0078
0.115			1.9	2	3	45	0.5	0.0078
0.115			0.4	3	3	45	0.5	0.0078
0.114			0.7	3	3	45	0.5	0.0078
0.116			1	3	3	45	0.5	0.0078
0.112			1.3	3	3	45	0.5	0.0078
0.111			1.6	3	3	45	0.5	0.0078
0.074			1.9	3	3	45	0.5	0.0078
0.085			0.4	4	3	45	0.5	0.0078
0.086			0.7	4	3	45	0.5	0.0078
0.085			1	4	3	45	0.5	0.0078
0.085			1.3	4	3	45	0.5	0.0078
0.084			1.6	4	3	45	0.5	0.0078
0.054			1.9	4	3	45	0.5	0.0078
0.331			0.4	0	3	45	1	0.0078
0.329			0.7	0	3	45	1	0.0078
0.328			1	0	3	45	1	0.0078
0.327			1.3	0	3	45	1	0.0078
0.325			1.6	0	3	45	1	0.0078
0.316			1.9	0	3	45	1	0.0078
0.275			0.4	0.5	3	45	1	0.0078
0.274			0.7	0.5	3	45	1	0.0078
0.273			1	0.5	3	45	1	0.0078
0.271			1.3	0.5	3	45	1	0.0078
0.269			1.6	0.5	3	45	1	0.0078
0.241			1.9	0.5	3	45	1	0.0078
0.236			0.4	1	3	45	1	0.0078
0.237			0.7	1	3	45	1	0.0078
0.235			1	1	3	45	1	0.0078
0.234			1.3	1	3	45	1	0.0078
0.231			1.6	1	3	45	1	0.0078
0.215	17	1	1.9	1	3	45	1	0.0078
0.171			0.4	2	3	45	1	0.0078
0.171			0.7	2	3	45	1	0.0078
0.169			1	2	3	45	1	0.0078

0.171		1.3	2	3	45	1	0.0078
0.17		1.6	2	3	45	1	0.0078
0.148		1.9	2	3	45	1	0.0078
0.122		0.4	3	3	45	1	0.0078
0.122		0.7	3	3	45	1	0.0078
0.123		1	3	3	45	1	0.0078
0.122		1.3	3	3	45	1	0.0078
0.124		1.6	3	3	45	1	0.0078
0.103		1.9	3	3	45	1	0.0078
0.085		0.4	4	3	45	1	0.0078
0.084		0.7	4	3	45	1	0.0078
0.085		1	4	3	45	1	0.0078
0.084		1.3	4	3	45	1	0.0078
0.079		1.6	4	3	45	1	0.0078
0.051		1.9	4	3	45	1	0.0078
0.431		0.4	0	3	45	2	0.0078
0.432		0.7	0	3	45	2	0.0078
0.429		1	0	3	45	2	0.0078
0.43		1.3	0	3	45	2	0.0078
0.429		1.6	0	3	45	2	0.0078
0.411		1.9	0	3	45	2	0.0078
0.377		0.4	0.5	3	45	2	0.0078
0.376		0.7	0.5	3	45	2	0.0078
0.369		1	0.5	3	45	2	0.0078
0.375		1.3	0.5	3	45	2	0.0078
0.371		1.6	0.5	3	45	2	0.0078
0.348		1.9	0.5	3	45	2	0.0078
0.291		0.4	1	3	45	2	0.0078
0.292		0.7	1	3	45	2	0.0078
0.291		1	1	3	45	2	0.0078
0.29		1.3	1	3	45	2	0.0078
0.291		1.6	1	3	45	2	0.0078
0.253	17	1.9	1	3	45	2	0.0078
0.172		0.4	2	3	45	2	0.0078
0.175		0.7	2	3	45	2	0.0078
0.17		1	2	3	45	2	0.0078
0.176		1.3	2	3	45	2	0.0078
0.17		1.6	2	3	45	2	0.0078
0.145		1.9	2	3	45	2	0.0078
0.122		0.4	3	3	45	2	0.0078
0.122		0.7	3	3	45	2	0.0078
0.12		1	3	3	45	2	0.0078
0.121		1.3	3	3	45	2	0.0078
0.12		1.6	3	3	45	2	0.0078
0.092		1.9	3	3	45	2	0.0078
0.079		0.4	4	3	45	2	0.0078
0.078		0.7	4	3	45	2	0.0078
0.075		1	4	3	45	2	0.0078

0.074			1.3	4	3	45	2	0.0078
0.069			1.6	4	3	45	2	0.0078
0.043			1.9	4	3	45	2	0.0078
0.42			0.4	0	3	100	0.5	0.0078
0.421			0.7	0	3	100	0.5	0.0078
0.422			1	0	3	100	0.5	0.0078
0.418			1.3	0	3	100	0.5	0.0078
0.415			1.6	0	3	100	0.5	0.0078
0.409			1.9	0	3	100	0.5	0.0078
0.348			0.4	0.5	3	100	0.5	0.0078
0.347			0.7	0.5	3	100	0.5	0.0078
0.345			1	0.5	3	100	0.5	0.0078
0.347			1.3	0.5	3	100	0.5	0.0078
0.341			1.6	0.5	3	100	0.5	0.0078
0.308			1.9	0.5	3	100	0.5	0.0078
0.272			0.4	1	3	100	0.5	0.0078
0.269			0.7	1	3	100	0.5	0.0078
0.268			1	1	3	100	0.5	0.0078
0.268			1.3	1	3	100	0.5	0.0078
0.265			1.6	1	3	100	0.5	0.0078
0.224	4	3	1.9	1	3	100	0.5	0.0078
0.201			0.4	2	3	100	0.5	0.0078
0.199			0.7	2	3	100	0.5	0.0078
0.198			1	2	3	100	0.5	0.0078
0.198			1.3	2	3	100	0.5	0.0078
0.195			1.6	2	3	100	0.5	0.0078
0.162			1.9	2	3	100	0.5	0.0078
0.156			0.4	3	3	100	0.5	0.0078
0.157			0.7	3	3	100	0.5	0.0078
0.157			1	3	3	100	0.5	0.0078
0.158			1.3	3	3	100	0.5	0.0078
0.159			1.6	3	3	100	0.5	0.0078
0.119			1.9	3	3	100	0.5	0.0078
0.099			0.4	4	3	100	0.5	0.0078
0.101			0.7	4	3	100	0.5	0.0078
0.098			1	4	3	100	0.5	0.0078
0.099			1.3	4	3	100	0.5	0.0078
0.098			1.6	4	3	100	0.5	0.0078
0.064			1.9	4	3	100	0.5	0.0078
0.157			0.4	0	5	33	0.5	0.0078
0.158			0.7	0	5	33	0.5	0.0078
0.156			1	0	5	33	0.5	0.0078
0.157			1.3	0	5	33	0.5	0.0078
0.156			1.6	0	5	33	0.5	0.0078
0.146			1.9	0	5	33	0.5	0.0078
0.132			0.4	0.5	5	33	0.5	0.0078
0.133			0.7	0.5	5	33	0.5	0.0078
0.134			1	0.5	5	33	0.5	0.0078

0.133		1.3	0.5	5	33	0.5	0.0078
0.133		1.6	0.5	5	33	0.5	0.0078
0.112		1.9	0.5	5	33	0.5	0.0078
0.111		0.4	1	5	33	0.5	0.0078
0.112		0.7	1	5	33	0.5	0.0078
0.109		1	1	5	33	0.5	0.0078
0.111		1.3	1	5	33	0.5	0.0078
0.11		1.6	1	5	33	0.5	0.0078
0.086	20	1.9	1	5	33	0.5	0.0078
0.083		0.4	2	5	33	0.5	0.0078
0.081		0.7	2	5	33	0.5	0.0078
0.082		1	2	5	33	0.5	0.0078
0.081		1.3	2	5	33	0.5	0.0078
0.08		1.6	2	5	33	0.5	0.0078
0.051		1.9	2	5	33	0.5	0.0078
0.051		0.4	3	5	33	0.5	0.0078
0.05		0.7	3	5	33	0.5	0.0078
0.049		1	3	5	33	0.5	0.0078
0.051		1.3	3	5	33	0.5	0.0078
0.049		1.6	3	5	33	0.5	0.0078
0.023		1.9	3	5	33	0.5	0.0078
0.021		0.4	4	5	33	0.5	0.0078
0.017		0.7	4	5	33	0.5	0.0078
0.018		1	4	5	33	0.5	0.0078
0.015		1.3	4	5	33	0.5	0.0078
0.014		1.6	4	5	33	0.5	0.0078
0.006		1.9	4	5	33	0.5	0.0078
0.237		0.4	0	5	33	1	0.0078
0.236		0.7	0	5	33	1	0.0078
0.237		1	0	5	33	1	0.0078
0.235		1.3	0	5	33	1	0.0078
0.233		1.6	0	5	33	1	0.0078
0.219		1.9	0	5	33	1	0.0078
0.201		0.4	0.5	5	33	1	0.0078
0.2		0.7	0.5	5	33	1	0.0078
0.2		1	0.5	5	33	1	0.0078
0.198		1.3	0.5	5	33	1	0.0078
0.199		1.6	0.5	5	33	1	0.0078
0.173		1.9	0.5	5	33	1	0.0078
0.161		0.4	1	5	33	1	0.0078
0.16		0.7	1	5	33	1	0.0078
0.159		1	1	5	33	1	0.0078
0.155		1.3	1	5	33	1	0.0078
0.153		1.6	1	5	33	1	0.0078
0.139	21	1.9	1	5	33	1	0.0078
0.129		0.4	2	5	33	1	0.0078
0.128		0.7	2	5	33	1	0.0078
0.128		1	2	5	33	1	0.0078

0.125		1.3	2	5	33	1	0.0078
0.125		1.6	2	5	33	1	0.0078
0.101		1.9	2	5	33	1	0.0078
0.094		0.4	3	5	33	1	0.0078
0.095		0.7	3	5	33	1	0.0078
0.095		1	3	5	33	1	0.0078
0.096		1.3	3	5	33	1	0.0078
0.094		1.6	3	5	33	1	0.0078
0.067		1.9	3	5	33	1	0.0078
0.051		0.4	4	5	33	1	0.0078
0.049		0.7	4	5	33	1	0.0078
0.044		1	4	5	33	1	0.0078
0.039		1.3	4	5	33	1	0.0078
0.035		1.6	4	5	33	1	0.0078
0.017		1.9	4	5	33	1	0.0078
0.321		0.4	0	5	33	2	0.0078
0.319		0.7	0	5	33	2	0.0078
0.32		1	0	5	33	2	0.0078
0.319		1.3	0	5	33	2	0.0078
0.321		1.6	0	5	33	2	0.0078
0.309		1.9	0	5	33	2	0.0078
0.283		0.4	0.5	5	33	2	0.0078
0.283		0.7	0.5	5	33	2	0.0078
0.28		1	0.5	5	33	2	0.0078
0.279		1.3	0.5	5	33	2	0.0078
0.276		1.6	0.5	5	33	2	0.0078
0.243		1.9	0.5	5	33	2	0.0078
0.199		0.4	1	5	33	2	0.0078
0.195		0.7	1	5	33	2	0.0078
0.194		1	1	5	33	2	0.0078
0.196		1.3	1	5	33	2	0.0078
0.193		1.6	1	5	33	2	0.0078
0.157	20	1.9	1	5	33	2	0.0078
0.141		0.4	2	5	33	2	0.0078
0.142		0.7	2	5	33	2	0.0078
0.143		1	2	5	33	2	0.0078
0.139		1.3	2	5	33	2	0.0078
0.135		1.6	2	5	33	2	0.0078
0.108		1.9	2	5	33	2	0.0078
0.092		0.4	3	5	33	2	0.0078
0.091		0.7	3	5	33	2	0.0078
0.09		1	3	5	33	2	0.0078
0.089		1.3	3	5	33	2	0.0078
0.084		1.6	3	5	33	2	0.0078
0.061		1.9	3	5	33	2	0.0078
0.051		0.4	4	5	33	2	0.0078
0.049		0.7	4	5	33	2	0.0078
0.048		1	4	5	33	2	0.0078

0.047			1.3	4	5	33	2	0.0078
0.039			1.6	4	5	33	2	0.0078
0.019			1.9	4	5	33	2	0.0078
0.225			0.4	0	5	45	0.5	0.0078
0.224			0.7	0	5	45	0.5	0.0078
0.223			1	0	5	45	0.5	0.0078
0.22			1.3	0	5	45	0.5	0.0078
0.221			1.6	0	5	45	0.5	0.0078
0.206			1.9	0	5	45	0.5	0.0078
0.203			0.4	0.5	5	45	0.5	0.0078
0.201			0.7	0.5	5	45	0.5	0.0078
0.2			1	0.5	5	45	0.5	0.0078
0.203			1.3	0.5	5	45	0.5	0.0078
0.201			1.6	0.5	5	45	0.5	0.0078
0.173			1.9	0.5	5	45	0.5	0.0078
0.153			0.4	1	5	45	0.5	0.0078
0.156			0.7	1	5	45	0.5	0.0078
0.157			1	1	5	45	0.5	0.0078
0.158			1.3	1	5	45	0.5	0.0078
0.156			1.6	1	5	45	0.5	0.0078
0.133	16	1	1.9	1	5	45	0.5	0.0078
0.115			0.4	2	5	45	0.5	0.0078
0.116			0.7	2	5	45	0.5	0.0078
0.114			1	2	5	45	0.5	0.0078
0.113			1.3	2	5	45	0.5	0.0078
0.112			1.6	2	5	45	0.5	0.0078
0.089			1.9	2	5	45	0.5	0.0078
0.086			0.4	3	5	45	0.5	0.0078
0.087			0.7	3	5	45	0.5	0.0078
0.09			1	3	5	45	0.5	0.0078
0.083			1.3	3	5	45	0.5	0.0078
0.081			1.6	3	5	45	0.5	0.0078
0.051			1.9	3	5	45	0.5	0.0078
0.031			0.4	4	5	45	0.5	0.0078
0.032			0.7	4	5	45	0.5	0.0078
0.03			1	4	5	45	0.5	0.0078
0.03			1.3	4	5	45	0.5	0.0078
0.029			1.6	4	5	45	0.5	0.0078
0.01			1.9	4	5	45	0.5	0.0078
0.329			0.4	0	5	45	1	0.0078
0.33			0.7	0	5	45	1	0.0078
0.33			1	0	5	45	1	0.0078
0.325			1.3	0	5	45	1	0.0078
0.324			1.6	0	5	45	1	0.0078
0.303			1.9	0	5	45	1	0.0078
0.269			0.4	0.5	5	45	1	0.0078
0.268			0.7	0.5	5	45	1	0.0078
0.265			1	0.5	5	45	1	0.0078

0.263		1.3	0.5	5	45	1	0.0078
0.26		1.6	0.5	5	45	1	0.0078
0.221		1.9	0.5	5	45	1	0.0078
0.201		0.4	1	5	45	1	0.0078
0.201		0.7	1	5	45	1	0.0078
0.2		1	1	5	45	1	0.0078
0.2		1.3	1	5	45	1	0.0078
0.199		1.6	1	5	45	1	0.0078
0.161	17	1.9	1	5	45	1	0.0078
0.141		0.4	2	5	45	1	0.0078
0.139		0.7	2	5	45	1	0.0078
0.14		1	2	5	45	1	0.0078
0.14		1.3	2	5	45	1	0.0078
0.139		1.6	2	5	45	1	0.0078
0.115		1.9	2	5	45	1	0.0078
0.095		0.4	3	5	45	1	0.0078
0.094		0.7	3	5	45	1	0.0078
0.093		1	3	5	45	1	0.0078
0.091		1.3	3	5	45	1	0.0078
0.09		1.6	3	5	45	1	0.0078
0.061		1.9	3	5	45	1	0.0078
0.059		0.4	4	5	45	1	0.0078
0.06		0.7	4	5	45	1	0.0078
0.055		1	4	5	45	1	0.0078
0.053		1.3	4	5	45	1	0.0078
0.051		1.6	4	5	45	1	0.0078
0.022		1.9	4	5	45	1	0.0078
0.416		0.4	0	5	45	2	0.0078
0.417		0.7	0	5	45	2	0.0078
0.415		1	0	5	45	2	0.0078
0.41		1.3	0	5	45	2	0.0078
0.41		1.6	0	5	45	2	0.0078
0.398		1.9	0	5	45	2	0.0078
0.322		0.4	0.5	5	45	2	0.0078
0.323		0.7	0.5	5	45	2	0.0078
0.321		1	0.5	5	45	2	0.0078
0.32		1.3	0.5	5	45	2	0.0078
0.32		1.6	0.5	5	45	2	0.0078
0.289		1.9	0.5	5	45	2	0.0078
0.251		0.4	1	5	45	2	0.0078
0.252		0.7	1	5	45	2	0.0078
0.253		1	1	5	45	2	0.0078
0.249		1.3	1	5	45	2	0.0078
0.25		1.6	1	5	45	2	0.0078
0.191	16	1.9	1	5	45	2	0.0078
0.161		0.4	2	5	45	2	0.0078
0.159		0.7	2	5	45	2	0.0078
0.16		1	2	5	45	2	0.0078

0.159		1.3	2	5	45	2	0.0078
0.159		1.6	2	5	45	2	0.0078
0.133		1.9	2	5	45	2	0.0078
0.101		0.4	3	5	45	2	0.0078
0.101		0.7	3	5	45	2	0.0078
0.1		1	3	5	45	2	0.0078
0.099		1.3	3	5	45	2	0.0078
0.098		1.6	3	5	45	2	0.0078
0.066		1.9	3	5	45	2	0.0078
0.054		0.4	4	5	45	2	0.0078
0.055		0.7	4	5	45	2	0.0078
0.053		1	4	5	45	2	0.0078
0.05		1.3	4	5	45	2	0.0078
0.048		1.6	4	5	45	2	0.0078
0.016		1.9	4	5	45	2	0.0078
0.425		0.4	0	5	100	0.5	0.0078
0.424		0.7	0	5	100	0.5	0.0078
0.423		1	0	5	100	0.5	0.0078
0.425		1.3	0	5	100	0.5	0.0078
0.427		1.6	0	5	100	0.5	0.0078
0.401		1.9	0	5	100	0.5	0.0078
0.31		0.4	0.5	5	100	0.5	0.0078
0.31		0.7	0.5	5	100	0.5	0.0078
0.309		1	0.5	5	100	0.5	0.0078
0.305		1.3	0.5	5	100	0.5	0.0078
0.308		1.6	0.5	5	100	0.5	0.0078
0.261		1.9	0.5	5	100	0.5	0.0078
0.202		0.4	1	5	100	0.5	0.0078
0.201		0.7	1	5	100	0.5	0.0078
0.203		1	1	5	100	0.5	0.0078
0.2		1.3	1	5	100	0.5	0.0078
0.2		1.6	1	5	100	0.5	0.0078
0.163	3	1.9	1	5	100	0.5	0.0078
0.151		0.4	2	5	100	0.5	0.0078
0.15		0.7	2	5	100	0.5	0.0078
0.15		1	2	5	100	0.5	0.0078
0.149		1.3	2	5	100	0.5	0.0078
0.148		1.6	2	5	100	0.5	0.0078
0.114		1.9	2	5	100	0.5	0.0078
0.101		0.4	3	5	100	0.5	0.0078
0.1		0.7	3	5	100	0.5	0.0078
0.1		1	3	5	100	0.5	0.0078
0.102		1.3	3	5	100	0.5	0.0078
0.099		1.6	3	5	100	0.5	0.0078
0.065		1.9	3	5	100	0.5	0.0078
0.051		0.4	4	5	100	0.5	0.0078
0.052		0.7	4	5	100	0.5	0.0078
0.051		1	4	5	100	0.5	0.0078

0.05		1.3	4	5	100	0.5	0.0078
0.05		1.6	4	5	100	0.5	0.0078
0.023		1.9	4	5	100	0.5	0.0078
0.175		0.4	0	0	33	0.5	0.0189
0.178		0.7	0	0	33	0.5	0.0189
0.176		1	0	0	33	0.5	0.0189
0.175		1.3	0	0	33	0.5	0.0189
0.178		1.6	0	0	33	0.5	0.0189
0.173		1.9	0	0	33	0.5	0.0189
0.163		0.4	0.5	0	33	0.5	0.0189
0.162		0.7	0.5	0	33	0.5	0.0189
0.163		1	0.5	0	33	0.5	0.0189
0.161		1.3	0.5	0	33	0.5	0.0189
0.16		1.6	0.5	0	33	0.5	0.0189
0.155		1.9	0.5	0	33	0.5	0.0189
0.149		0.4	1	0	33	0.5	0.0189
0.148		0.7	1	0	33	0.5	0.0189
0.146		1	1	0	33	0.5	0.0189
0.147		1.3	1	0	33	0.5	0.0189
0.145		1.6	1	0	33	0.5	0.0189
0.139	23 1	1.9	1	0	33	0.5	0.0189
0.118		0.4	2	0	33	0.5	0.0189
0.117		0.7	2	0	33	0.5	0.0189
0.116		1	2	0	33	0.5	0.0189
0.115		1.3	2	0	33	0.5	0.0189
0.117		1.6	2	0	33	0.5	0.0189
0.103		1.9	2	0	33	0.5	0.0189
0.088		0.4	3	0	33	0.5	0.0189
0.089		0.7	3	0	33	0.5	0.0189
0.088		1	3	0	33	0.5	0.0189
0.086		1.3	3	0	33	0.5	0.0189
0.085		1.6	3	0	33	0.5	0.0189
0.068		1.9	3	0	33	0.5	0.0189
0.068		0.4	4	0	33	0.5	0.0189
0.061		0.7	4	0	33	0.5	0.0189
0.065		1	4	0	33	0.5	0.0189
0.063		1.3	4	0	33	0.5	0.0189
0.061		1.6	4	0	33	0.5	0.0189
0.049		1.9	4	0	33	0.5	0.0189
0.259		0.4	0	0	33	1	0.0189
0.258		0.7	0	0	33	1	0.0189
0.258		1	0	0	33	1	0.0189
0.257		1.3	0	0	33	1	0.0189
0.256		1.6	0	0	33	1	0.0189
0.249		1.9	0	0	33	1	0.0189
0.238		0.4	0.5	0	33	1	0.0189
0.237		0.7	0.5	0	33	1	0.0189
0.237		1	0.5	0	33	1	0.0189

0.236			1.3	0.5	0	33	1	0.0189
0.235			1.6	0.5	0	33	1	0.0189
0.221			1.9	0.5	0	33	1	0.0189
0.212			0.4	1	0	33	1	0.0189
0.211			0.7	1	0	33	1	0.0189
0.21			1	1	0	33	1	0.0189
0.209			1.3	1	0	33	1	0.0189
0.208			1.6	1	0	33	1	0.0189
0.195	26	3	1.9	1	0	33	1	0.0189
0.178			0.4	2	0	33	1	0.0189
0.176			0.7	2	0	33	1	0.0189
0.175			1	2	0	33	1	0.0189
0.175			1.3	2	0	33	1	0.0189
0.175			1.6	2	0	33	1	0.0189
0.161			1.9	2	0	33	1	0.0189
0.143			0.4	3	0	33	1	0.0189
0.144			0.7	3	0	33	1	0.0189
0.141			1	3	0	33	1	0.0189
0.14			1.3	3	0	33	1	0.0189
0.138			1.6	3	0	33	1	0.0189
0.126			1.9	3	0	33	1	0.0189
0.112			0.4	4	0	33	1	0.0189
0.11			0.7	4	0	33	1	0.0189
0.109			1	4	0	33	1	0.0189
0.108			1.3	4	0	33	1	0.0189
0.105			1.6	4	0	33	1	0.0189
0.089			1.9	4	0	33	1	0.0189
0.34			0.4	0	0	33	2	0.0189
0.34			0.7	0	0	33	2	0.0189
0.339			1	0	0	33	2	0.0189
0.338			1.3	0	0	33	2	0.0189
0.338			1.6	0	0	33	2	0.0189
0.306			1.9	0	0	33	2	0.0189
0.312			0.4	0.5	0	33	2	0.0189
0.315			0.7	0.5	0	33	2	0.0189
0.316			1	0.5	0	33	2	0.0189
0.317			1.3	0.5	0	33	2	0.0189
0.316			1.6	0.5	0	33	2	0.0189
0.278			1.9	0.5	0	33	2	0.0189
0.271			0.4	1	0	33	2	0.0189
0.271			0.7	1	0	33	2	0.0189
0.27			1	1	0	33	2	0.0189
0.269			1.3	1	0	33	2	0.0189
0.265			1.6	1	0	33	2	0.0189
0.221	23	1	1.9	1	0	33	2	0.0189
0.188			0.4	2	0	33	2	0.0189
0.186			0.7	2	0	33	2	0.0189
0.185			1	2	0	33	2	0.0189

0.185		1.3	2	0	33	2	0.0189
0.184		1.6	2	0	33	2	0.0189
0.159		1.9	2	0	33	2	0.0189
0.141		0.4	3	0	33	2	0.0189
0.141		0.7	3	0	33	2	0.0189
0.14		1	3	0	33	2	0.0189
0.14		1.3	3	0	33	2	0.0189
0.139		1.6	3	0	33	2	0.0189
0.118		1.9	3	0	33	2	0.0189
0.095		0.4	4	0	33	2	0.0189
0.094		0.7	4	0	33	2	0.0189
0.093		1	4	0	33	2	0.0189
0.093		1.3	4	0	33	2	0.0189
0.093		1.6	4	0	33	2	0.0189
0.078		1.9	4	0	33	2	0.0189
0.251		0.4	0	0	45	0.5	0.0189
0.249		0.7	0	0	45	0.5	0.0189
0.25		1	0	0	45	0.5	0.0189
0.249		1.3	0	0	45	0.5	0.0189
0.248		1.6	0	0	45	0.5	0.0189
0.239		1.9	0	0	45	0.5	0.0189
0.231		0.4	0.5	0	45	0.5	0.0189
0.232		0.7	0.5	0	45	0.5	0.0189
0.231		1	0.5	0	45	0.5	0.0189
0.23		1.3	0.5	0	45	0.5	0.0189
0.229		1.6	0.5	0	45	0.5	0.0189
0.211		1.9	0.5	0	45	0.5	0.0189
0.208		0.4	1	0	45	0.5	0.0189
0.208		0.7	1	0	45	0.5	0.0189
0.209		1	1	0	45	0.5	0.0189
0.205		1.3	1	0	45	0.5	0.0189
0.204		1.6	1	0	45	0.5	0.0189
0.188	20	1.9	1	0	45	0.5	0.0189
0.168		0.4	2	0	45	0.5	0.0189
0.167		0.7	2	0	45	0.5	0.0189
0.167		1	2	0	45	0.5	0.0189
0.166		1.3	2	0	45	0.5	0.0189
0.165		1.6	2	0	45	0.5	0.0189
0.155		1.9	2	0	45	0.5	0.0189
0.136		0.4	3	0	45	0.5	0.0189
0.136		0.7	3	0	45	0.5	0.0189
0.135		1	3	0	45	0.5	0.0189
0.135		1.3	3	0	45	0.5	0.0189
0.133		1.6	3	0	45	0.5	0.0189
0.122		1.9	3	0	45	0.5	0.0189
0.099		0.4	4	0	45	0.5	0.0189
0.098		0.7	4	0	45	0.5	0.0189
0.098		1	4	0	45	0.5	0.0189

0.097			1.3	4	0	45	0.5	0.0189
0.095			1.6	4	0	45	0.5	0.0189
0.076			1.9	4	0	45	0.5	0.0189
0.336			0.4	0	0	45	1	0.0189
0.337			0.7	0	0	45	1	0.0189
0.335			1	0	0	45	1	0.0189
0.339			1.3	0	0	45	1	0.0189
0.335			1.6	0	0	45	1	0.0189
0.322			1.9	0	0	45	1	0.0189
0.301			0.4	0.5	0	45	1	0.0189
0.302			0.7	0.5	0	45	1	0.0189
0.301			1	0.5	0	45	1	0.0189
0.3			1.3	0.5	0	45	1	0.0189
0.3			1.6	0.5	0	45	1	0.0189
0.284			1.9	0.5	0	45	1	0.0189
0.275			0.4	1	0	45	1	0.0189
0.274			0.7	1	0	45	1	0.0189
0.274			1	1	0	45	1	0.0189
0.275			1.3	1	0	45	1	0.0189
0.276			1.6	1	0	45	1	0.0189
0.251	19	1	1.9	1	0	45	1	0.0189
0.223			0.4	2	0	45	1	0.0189
0.221			0.7	2	0	45	1	0.0189
0.219			1	2	0	45	1	0.0189
0.218			1.3	2	0	45	1	0.0189
0.218			1.6	2	0	45	1	0.0189
0.198			1.9	2	0	45	1	0.0189
0.148			0.4	3	0	45	1	0.0189
0.147			0.7	3	0	45	1	0.0189
0.146			1	3	0	45	1	0.0189
0.144			1.3	3	0	45	1	0.0189
0.145			1.6	3	0	45	1	0.0189
0.132			1.9	3	0	45	1	0.0189
0.109			0.4	4	0	45	1	0.0189
0.108			0.7	4	0	45	1	0.0189
0.108			1	4	0	45	1	0.0189
0.105			1.3	4	0	45	1	0.0189
0.105			1.6	4	0	45	1	0.0189
0.086			1.9	4	0	45	1	0.0189
0.441			0.4	0	0	45	2	0.0189
0.439			0.7	0	0	45	2	0.0189
0.438			1	0	0	45	2	0.0189
0.436			1.3	0	0	45	2	0.0189
0.431			1.6	0	0	45	2	0.0189
0.396			1.9	0	0	45	2	0.0189
0.389			0.4	0.5	0	45	2	0.0189
0.385			0.7	0.5	0	45	2	0.0189
0.383			1	0.5	0	45	2	0.0189

0.382		1.3	0.5	0	45	2	0.0189
0.372		1.6	0.5	0	45	2	0.0189
0.341		1.9	0.5	0	45	2	0.0189
0.33		0.4	1	0	45	2	0.0189
0.33		0.7	1	0	45	2	0.0189
0.329		1	1	0	45	2	0.0189
0.328		1.3	1	0	45	2	0.0189
0.321		1.6	1	0	45	2	0.0189
0.287	19	1.9	1	0	45	2	0.0189
0.211		0.4	2	0	45	2	0.0189
0.212		0.7	2	0	45	2	0.0189
0.213		1	2	0	45	2	0.0189
0.214		1.3	2	0	45	2	0.0189
0.215		1.6	2	0	45	2	0.0189
0.19		1.9	2	0	45	2	0.0189
0.148		0.4	3	0	45	2	0.0189
0.149		0.7	3	0	45	2	0.0189
0.149		1	3	0	45	2	0.0189
0.15		1.3	3	0	45	2	0.0189
0.15		1.6	3	0	45	2	0.0189
0.141		1.9	3	0	45	2	0.0189
0.112		0.4	4	0	45	2	0.0189
0.111		0.7	4	0	45	2	0.0189
0.11		1	4	0	45	2	0.0189
0.11		1.3	4	0	45	2	0.0189
0.109		1.6	4	0	45	2	0.0189
0.097		1.9	4	0	45	2	0.0189
0.179		0.4	0	3	33	0.5	0.0189
0.18		0.7	0	3	33	0.5	0.0189
0.179		1	0	3	33	0.5	0.0189
0.178		1.3	0	3	33	0.5	0.0189
0.177		1.6	0	3	33	0.5	0.0189
0.166		1.9	0	3	33	0.5	0.0189
0.156		0.4	0.5	3	33	0.5	0.0189
0.157		0.7	0.5	3	33	0.5	0.0189
0.157		1	0.5	3	33	0.5	0.0189
0.155		1.3	0.5	3	33	0.5	0.0189
0.156		1.6	0.5	3	33	0.5	0.0189
0.149		1.9	0.5	3	33	0.5	0.0189
0.135		0.4	1	3	33	0.5	0.0189
0.136		0.7	1	3	33	0.5	0.0189
0.137		1	1	3	33	0.5	0.0189
0.137		1.3	1	3	33	0.5	0.0189
0.137		1.6	1	3	33	0.5	0.0189
0.125	22	1.9	1	3	33	0.5	0.0189
0.108		0.4	2	3	33	0.5	0.0189
0.107		0.7	2	3	33	0.5	0.0189
0.105		1	2	3	33	0.5	0.0189

0.104		1.3	2	3	33	0.5	0.0189
0.103		1.6	2	3	33	0.5	0.0189
0.083		1.9	2	3	33	0.5	0.0189
0.08		0.4	3	3	33	0.5	0.0189
0.079		0.7	3	3	33	0.5	0.0189
0.08		1	3	3	33	0.5	0.0189
0.076		1.3	3	3	33	0.5	0.0189
0.075		1.6	3	3	33	0.5	0.0189
0.061		1.9	3	3	33	0.5	0.0189
0.055		0.4	4	3	33	0.5	0.0189
0.054		0.7	4	3	33	0.5	0.0189
0.053		1	4	3	33	0.5	0.0189
0.05		1.3	4	3	33	0.5	0.0189
0.045		1.6	4	3	33	0.5	0.0189
0.031		1.9	4	3	33	0.5	0.0189
0.251		0.4	0	3	33	1	0.0189
0.25		0.7	0	3	33	1	0.0189
0.251		1	0	3	33	1	0.0189
0.249		1.3	0	3	33	1	0.0189
0.248		1.6	0	3	33	1	0.0189
0.231		1.9	0	3	33	1	0.0189
0.219		0.4	0.5	3	33	1	0.0189
0.218		0.7	0.5	3	33	1	0.0189
0.217		1	0.5	3	33	1	0.0189
0.215		1.3	0.5	3	33	1	0.0189
0.215		1.6	0.5	3	33	1	0.0189
0.196		1.9	0.5	3	33	1	0.0189
0.184		0.4	1	3	33	1	0.0189
0.183		0.7	1	3	33	1	0.0189
0.18		1	1	3	33	1	0.0189
0.18		1.3	1	3	33	1	0.0189
0.178		1.6	1	3	33	1	0.0189
0.163	21	1.9	1	3	33	1	0.0189
0.15		0.4	2	3	33	1	0.0189
0.152		0.7	2	3	33	1	0.0189
0.152		1	2	3	33	1	0.0189
0.152		1.3	2	3	33	1	0.0189
0.151		1.6	2	3	33	1	0.0189
0.141		1.9	2	3	33	1	0.0189
0.132		0.4	3	3	33	1	0.0189
0.134		0.7	3	3	33	1	0.0189
0.133		1	3	3	33	1	0.0189
0.132		1.3	3	3	33	1	0.0189
0.131		1.6	3	3	33	1	0.0189
0.109		1.9	3	3	33	1	0.0189
0.098		0.4	4	3	33	1	0.0189
0.099		0.7	4	3	33	1	0.0189
0.095		1	4	3	33	1	0.0189

0.095			1.3	4	3	33	1	0.0189
0.095			1.6	4	3	33	1	0.0189
0.068			1.9	4	3	33	1	0.0189
0.332			0.4	0	3	33	2	0.0189
0.335			0.7	0	3	33	2	0.0189
0.336			1	0	3	33	2	0.0189
0.331			1.3	0	3	33	2	0.0189
0.33			1.6	0	3	33	2	0.0189
0.314			1.9	0	3	33	2	0.0189
0.306			0.4	0.5	3	33	2	0.0189
0.305			0.7	0.5	3	33	2	0.0189
0.304			1	0.5	3	33	2	0.0189
0.303			1.3	0.5	3	33	2	0.0189
0.3			1.6	0.5	3	33	2	0.0189
0.269			1.9	0.5	3	33	2	0.0189
0.241			0.4	1	3	33	2	0.0189
0.24			0.7	1	3	33	2	0.0189
0.239			1	1	3	33	2	0.0189
0.238			1.3	1	3	33	2	0.0189
0.235			1.6	1	3	33	2	0.0189
0.202	21	1	1.9	1	3	33	2	0.0189
0.169			0.4	2	3	33	2	0.0189
0.168			0.7	2	3	33	2	0.0189
0.165			1	2	3	33	2	0.0189
0.163			1.3	2	3	33	2	0.0189
0.161			1.6	2	3	33	2	0.0189
0.151			1.9	2	3	33	2	0.0189
0.124			0.4	3	3	33	2	0.0189
0.125			0.7	3	3	33	2	0.0189
0.126			1	3	3	33	2	0.0189
0.124			1.3	3	3	33	2	0.0189
0.125			1.6	3	3	33	2	0.0189
0.109			1.9	3	3	33	2	0.0189
0.083			0.4	4	3	33	2	0.0189
0.084			0.7	4	3	33	2	0.0189
0.085			1	4	3	33	2	0.0189
0.079			1.3	4	3	33	2	0.0189
0.076			1.6	4	3	33	2	0.0189
0.065			1.9	4	3	33	2	0.0189
0.239			0.4	0	3	45	0.5	0.0189
0.24			0.7	0	3	45	0.5	0.0189
0.238			1	0	3	45	0.5	0.0189
0.237			1.3	0	3	45	0.5	0.0189
0.235			1.6	0	3	45	0.5	0.0189
0.224			1.9	0	3	45	0.5	0.0189
0.214			0.4	0.5	3	45	0.5	0.0189
0.211			0.7	0.5	3	45	0.5	0.0189
0.21			1	0.5	3	45	0.5	0.0189

0.209			1.3	0.5	3	45	0.5	0.0189
0.205			1.6	0.5	3	45	0.5	0.0189
0.186			1.9	0.5	3	45	0.5	0.0189
0.191			0.4	1	3	45	0.5	0.0189
0.19			0.7	1	3	45	0.5	0.0189
0.189			1	1	3	45	0.5	0.0189
0.185			1.3	1	3	45	0.5	0.0189
0.179			1.6	1	3	45	0.5	0.0189
0.162	20	3	1.9	1	3	45	0.5	0.0189
0.154			0.4	2	3	45	0.5	0.0189
0.153			0.7	2	3	45	0.5	0.0189
0.151			1	2	3	45	0.5	0.0189
0.15			1.3	2	3	45	0.5	0.0189
0.152			1.6	2	3	45	0.5	0.0189
0.139			1.9	2	3	45	0.5	0.0189
0.119			0.4	3	3	45	0.5	0.0189
0.118			0.7	3	3	45	0.5	0.0189
0.118			1	3	3	45	0.5	0.0189
0.115			1.3	3	3	45	0.5	0.0189
0.114			1.6	3	3	45	0.5	0.0189
0.097			1.9	3	3	45	0.5	0.0189
0.085			0.4	4	3	45	0.5	0.0189
0.084			0.7	4	3	45	0.5	0.0189
0.083			1	4	3	45	0.5	0.0189
0.08			1.3	4	3	45	0.5	0.0189
0.08			1.6	4	3	45	0.5	0.0189
0.06			1.9	4	3	45	0.5	0.0189
0.329			0.4	0	3	45	1	0.0189
0.33			0.7	0	3	45	1	0.0189
0.328			1	0	3	45	1	0.0189
0.325			1.3	0	3	45	1	0.0189
0.323			1.6	0	3	45	1	0.0189
0.308			1.9	0	3	45	1	0.0189
0.281			0.4	0.5	3	45	1	0.0189
0.282			0.7	0.5	3	45	1	0.0189
0.282			1	0.5	3	45	1	0.0189
0.28			1.3	0.5	3	45	1	0.0189
0.279			1.6	0.5	3	45	1	0.0189
0.254			1.9	0.5	3	45	1	0.0189
0.233			0.4	1	3	45	1	0.0189
0.233			0.7	1	3	45	1	0.0189
0.231			1	1	3	45	1	0.0189
0.23			1.3	1	3	45	1	0.0189
0.229			1.6	1	3	45	1	0.0189
0.194	18	1	1.9	1	3	45	1	0.0189
0.182			0.4	2	3	45	1	0.0189
0.181			0.7	2	3	45	1	0.0189
0.18			1	2	3	45	1	0.0189

0.18		1.3	2	3	45	1	0.0189
0.181		1.6	2	3	45	1	0.0189
0.155		1.9	2	3	45	1	0.0189
0.132		0.4	3	3	45	1	0.0189
0.131		0.7	3	3	45	1	0.0189
0.131		1	3	3	45	1	0.0189
0.13		1.3	3	3	45	1	0.0189
0.13		1.6	3	3	45	1	0.0189
0.114		1.9	3	3	45	1	0.0189
0.089		0.4	4	3	45	1	0.0189
0.088		0.7	4	3	45	1	0.0189
0.088		1	4	3	45	1	0.0189
0.085		1.3	4	3	45	1	0.0189
0.083		1.6	4	3	45	1	0.0189
0.061		1.9	4	3	45	1	0.0189
0.435		0.4	0	3	45	2	0.0189
0.433		0.7	0	3	45	2	0.0189
0.432		1	0	3	45	2	0.0189
0.432		1.3	0	3	45	2	0.0189
0.429		1.6	0	3	45	2	0.0189
0.411		1.9	0	3	45	2	0.0189
0.356		0.4	0.5	3	45	2	0.0189
0.357		0.7	0.5	3	45	2	0.0189
0.355		1	0.5	3	45	2	0.0189
0.351		1.3	0.5	3	45	2	0.0189
0.35		1.6	0.5	3	45	2	0.0189
0.329		1.9	0.5	3	45	2	0.0189
0.281		0.4	1	3	45	2	0.0189
0.282		0.7	1	3	45	2	0.0189
0.282		1	1	3	45	2	0.0189
0.28		1.3	1	3	45	2	0.0189
0.281		1.6	1	3	45	2	0.0189
0.266	17	1.9	1	3	45	2	0.0189
0.182		0.4	2	3	45	2	0.0189
0.181		0.7	2	3	45	2	0.0189
0.18		1	2	3	45	2	0.0189
0.181		1.3	2	3	45	2	0.0189
0.179		1.6	2	3	45	2	0.0189
0.155		1.9	2	3	45	2	0.0189
0.136		0.4	3	3	45	2	0.0189
0.135		0.7	3	3	45	2	0.0189
0.131		1	3	3	45	2	0.0189
0.131		1.3	3	3	45	2	0.0189
0.129		1.6	3	3	45	2	0.0189
0.102		1.9	3	3	45	2	0.0189
0.098		0.4	4	3	45	2	0.0189
0.098		0.7	4	3	45	2	0.0189
0.095		1	4	3	45	2	0.0189

0.094			1.3	4	3	45	2	0.0189
0.093			1.6	4	3	45	2	0.0189
0.061			1.9	4	3	45	2	0.0189
0.176			0.4	0	5	33	0.5	0.0189
0.175			0.7	0	5	33	0.5	0.0189
0.175			1	0	5	33	0.5	0.0189
0.173			1.3	0	5	33	0.5	0.0189
0.171			1.6	0	5	33	0.5	0.0189
0.164			1.9	0	5	33	0.5	0.0189
0.153			0.4	0.5	5	33	0.5	0.0189
0.151			0.7	0.5	5	33	0.5	0.0189
0.15			1	0.5	5	33	0.5	0.0189
0.154			1.3	0.5	5	33	0.5	0.0189
0.151			1.6	0.5	5	33	0.5	0.0189
0.142			1.9	0.5	5	33	0.5	0.0189
0.111			0.4	1	5	33	0.5	0.0189
0.108			0.7	1	5	33	0.5	0.0189
0.109			1	1	5	33	0.5	0.0189
0.11			1.3	1	5	33	0.5	0.0189
0.105			1.6	1	5	33	0.5	0.0189
0.091	21	1	1.9	1	5	33	0.5	0.0189
0.083			0.4	2	5	33	0.5	0.0189
0.081			0.7	2	5	33	0.5	0.0189
0.08			1	2	5	33	0.5	0.0189
0.081			1.3	2	5	33	0.5	0.0189
0.079			1.6	2	5	33	0.5	0.0189
0.052			1.9	2	5	33	0.5	0.0189
0.051			0.4	3	5	33	0.5	0.0189
0.05			0.7	3	5	33	0.5	0.0189
0.051			1	3	5	33	0.5	0.0189
0.048			1.3	3	5	33	0.5	0.0189
0.043			1.6	3	5	33	0.5	0.0189
0.024			1.9	3	5	33	0.5	0.0189
0.022			0.4	4	5	33	0.5	0.0189
0.021			0.7	4	5	33	0.5	0.0189
0.02			1	4	5	33	0.5	0.0189
0.018			1.3	4	5	33	0.5	0.0189
0.015			1.6	4	5	33	0.5	0.0189
0.009			1.9	4	5	33	0.5	0.0189
0.24			0.4	0	5	33	1	0.0189
0.242			0.7	0	5	33	1	0.0189
0.243			1	0	5	33	1	0.0189
0.244			1.3	0	5	33	1	0.0189
0.24			1.6	0	5	33	1	0.0189
0.214			1.9	0	5	33	1	0.0189
0.203			0.4	0.5	5	33	1	0.0189
0.204			0.7	0.5	5	33	1	0.0189
0.202			1	0.5	5	33	1	0.0189

0.203			1.3	0.5	5	33	1	0.0189
0.205			1.6	0.5	5	33	1	0.0189
0.178			1.9	0.5	5	33	1	0.0189
0.169			0.4	1	5	33	1	0.0189
0.165			0.7	1	5	33	1	0.0189
0.164			1	1	5	33	1	0.0189
0.163			1.3	1	5	33	1	0.0189
0.16			1.6	1	5	33	1	0.0189
0.146	20	1	1.9	1	5	33	1	0.0189
0.123			0.4	2	5	33	1	0.0189
0.124			0.7	2	5	33	1	0.0189
0.124			1	2	5	33	1	0.0189
0.124			1.3	2	5	33	1	0.0189
0.125			1.6	2	5	33	1	0.0189
0.107			1.9	2	5	33	1	0.0189
0.103			0.4	3	5	33	1	0.0189
0.101			0.7	3	5	33	1	0.0189
0.1			1	3	5	33	1	0.0189
0.1			1.3	3	5	33	1	0.0189
0.102			1.6	3	5	33	1	0.0189
0.075			1.9	3	5	33	1	0.0189
0.051			0.4	4	5	33	1	0.0189
0.05			0.7	4	5	33	1	0.0189
0.048			1	4	5	33	1	0.0189
0.045			1.3	4	5	33	1	0.0189
0.044			1.6	4	5	33	1	0.0189
0.015			1.9	4	5	33	1	0.0189
0.327			0.4	0	5	33	2	0.0189
0.328			0.7	0	5	33	2	0.0189
0.327			1	0	5	33	2	0.0189
0.325			1.3	0	5	33	2	0.0189
0.321			1.6	0	5	33	2	0.0189
0.307			1.9	0	5	33	2	0.0189
0.289			0.4	0.5	5	33	2	0.0189
0.29			0.7	0.5	5	33	2	0.0189
0.284			1	0.5	5	33	2	0.0189
0.283			1.3	0.5	5	33	2	0.0189
0.281			1.6	0.5	5	33	2	0.0189
0.256			1.9	0.5	5	33	2	0.0189
0.211			0.4	1	5	33	2	0.0189
0.212			0.7	1	5	33	2	0.0189
0.204			1	1	5	33	2	0.0189
0.202			1.3	1	5	33	2	0.0189
0.201			1.6	1	5	33	2	0.0189
0.174	20	3	1.9	1	5	33	2	0.0189
0.151			0.4	2	5	33	2	0.0189
0.155			0.7	2	5	33	2	0.0189
0.154			1	2	5	33	2	0.0189

0.153		1.3	2	5	33	2	0.0189
0.148		1.6	2	5	33	2	0.0189
0.132		1.9	2	5	33	2	0.0189
0.105		0.4	3	5	33	2	0.0189
0.106		0.7	3	5	33	2	0.0189
0.101		1	3	5	33	2	0.0189
0.1		1.3	3	5	33	2	0.0189
0.097		1.6	3	5	33	2	0.0189
0.078		1.9	3	5	33	2	0.0189
0.062		0.4	4	5	33	2	0.0189
0.063		0.7	4	5	33	2	0.0189
0.061		1	4	5	33	2	0.0189
0.055		1.3	4	5	33	2	0.0189
0.047		1.6	4	5	33	2	0.0189
0.021		1.9	4	5	33	2	0.0189
0.231		0.4	0	5	45	0.5	0.0189
0.23		0.7	0	5	45	0.5	0.0189
0.229		1	0	5	45	0.5	0.0189
0.225		1.3	0	5	45	0.5	0.0189
0.221		1.6	0	5	45	0.5	0.0189
0.206		1.9	0	5	45	0.5	0.0189
0.201		0.4	0.5	5	45	0.5	0.0189
0.2		0.7	0.5	5	45	0.5	0.0189
0.198		1	0.5	5	45	0.5	0.0189
0.196		1.3	0.5	5	45	0.5	0.0189
0.186		1.6	0.5	5	45	0.5	0.0189
0.171		1.9	0.5	5	45	0.5	0.0189
0.173		0.4	1	5	45	0.5	0.0189
0.168		0.7	1	5	45	0.5	0.0189
0.165		1	1	5	45	0.5	0.0189
0.163		1.3	1	5	45	0.5	0.0189
0.16		1.6	1	5	45	0.5	0.0189
0.147	16	1.9	1	5	45	0.5	0.0189
0.136		0.4	2	5	45	0.5	0.0189
0.134		0.7	2	5	45	0.5	0.0189
0.131		1	2	5	45	0.5	0.0189
0.13		1.3	2	5	45	0.5	0.0189
0.128		1.6	2	5	45	0.5	0.0189
0.108		1.9	2	5	45	0.5	0.0189
0.089		0.4	3	5	45	0.5	0.0189
0.087		0.7	3	5	45	0.5	0.0189
0.085		1	3	5	45	0.5	0.0189
0.081		1.3	3	5	45	0.5	0.0189
0.08		1.6	3	5	45	0.5	0.0189
0.061		1.9	3	5	45	0.5	0.0189
0.041		0.4	4	5	45	0.5	0.0189
0.04		0.7	4	5	45	0.5	0.0189
0.039		1	4	5	45	0.5	0.0189

0.038			1.3	4	5	45	0.5	0.0189
0.034			1.6	4	5	45	0.5	0.0189
0.018			1.9	4	5	45	0.5	0.0189
0.319			0.4	0	5	45	1	0.0189
0.32			0.7	0	5	45	1	0.0189
0.318			1	0	5	45	1	0.0189
0.317			1.3	0	5	45	1	0.0189
0.315			1.6	0	5	45	1	0.0189
0.305			1.9	0	5	45	1	0.0189
0.266			0.4	0.5	5	45	1	0.0189
0.265			0.7	0.5	5	45	1	0.0189
0.261			1	0.5	5	45	1	0.0189
0.259			1.3	0.5	5	45	1	0.0189
0.255			1.6	0.5	5	45	1	0.0189
0.225			1.9	0.5	5	45	1	0.0189
0.202			0.4	1	5	45	1	0.0189
0.201			0.7	1	5	45	1	0.0189
0.203			1	1	5	45	1	0.0189
0.198			1.3	1	5	45	1	0.0189
0.195			1.6	1	5	45	1	0.0189
0.176	18	1	1.9	1	5	45	1	0.0189
0.144			0.4	2	5	45	1	0.0189
0.145			0.7	2	5	45	1	0.0189
0.149			1	2	5	45	1	0.0189
0.151			1.3	2	5	45	1	0.0189
0.15			1.6	2	5	45	1	0.0189
0.136			1.9	2	5	45	1	0.0189
0.108			0.4	3	5	45	1	0.0189
0.109			0.7	3	5	45	1	0.0189
0.105			1	3	5	45	1	0.0189
0.103			1.3	3	5	45	1	0.0189
0.101			1.6	3	5	45	1	0.0189
0.084			1.9	3	5	45	1	0.0189
0.061			0.4	4	5	45	1	0.0189
0.059			0.7	4	5	45	1	0.0189
0.06			1	4	5	45	1	0.0189
0.06			1.3	4	5	45	1	0.0189
0.055			1.6	4	5	45	1	0.0189
0.032			1.9	4	5	45	1	0.0189
0.435			0.4	0	5	45	2	0.0189
0.431			0.7	0	5	45	2	0.0189
0.43			1	0	5	45	2	0.0189
0.428			1.3	0	5	45	2	0.0189
0.425			1.6	0	5	45	2	0.0189
0.401			1.9	0	5	45	2	0.0189
0.318			0.4	0.5	5	45	2	0.0189
0.321			0.7	0.5	5	45	2	0.0189
0.315			1	0.5	5	45	2	0.0189

0.316		1.3	0.5	5	45	2	0.0189
0.314		1.6	0.5	5	45	2	0.0189
0.298		1.9	0.5	5	45	2	0.0189
0.244		0.4	1	5	45	2	0.0189
0.245		0.7	1	5	45	2	0.0189
0.243		1	1	5	45	2	0.0189
0.239		1.3	1	5	45	2	0.0189
0.24		1.6	1	5	45	2	0.0189
0.211	18	1.9	1	5	45	2	0.0189
0.176	1	0.4	2	5	45	2	0.0189
0.17		0.7	2	5	45	2	0.0189
0.168		1	2	5	45	2	0.0189
0.167		1.3	2	5	45	2	0.0189
0.16		1.6	2	5	45	2	0.0189
0.141		1.9	2	5	45	2	0.0189
0.122		0.4	3	5	45	2	0.0189
0.121		0.7	3	5	45	2	0.0189
0.12		1	3	5	45	2	0.0189
0.119		1.3	3	5	45	2	0.0189
0.117		1.6	3	5	45	2	0.0189
0.084		1.9	3	5	45	2	0.0189
0.071		0.4	4	5	45	2	0.0189
0.068		0.7	4	5	45	2	0.0189
0.065		1	4	5	45	2	0.0189
0.066		1.3	4	5	45	2	0.0189
0.061		1.6	4	5	45	2	0.0189
0.029		1.9	4	5	45	2	0.0189
0.184		0.4	0	0	33	0.5	0.0036
0.183		0.7	0	0	33	0.5	0.0036
0.184		1	0	0	33	0.5	0.0036
0.185		1.3	0	0	33	0.5	0.0036
0.183		1.6	0	0	33	0.5	0.0036
0.178		1.9	0	0	33	0.5	0.0036
0.171		0.4	0.5	0	33	0.5	0.0036
0.169		0.7	0.5	0	33	0.5	0.0036
0.17		1	0.5	0	33	0.5	0.0036
0.168		1.3	0.5	0	33	0.5	0.0036
0.168		1.6	0.5	0	33	0.5	0.0036
0.159		1.9	0.5	0	33	0.5	0.0036
0.156		0.4	1	0	33	0.5	0.0036
0.155		0.7	1	0	33	0.5	0.0036
0.154		1	1	0	33	0.5	0.0036
0.154		1.3	1	0	33	0.5	0.0036
0.153		1.6	1	0	33	0.5	0.0036
0.141	24	1.9	1	0	33	0.5	0.0036
0.12	1	0.4	2	0	33	0.5	0.0036
0.121		0.7	2	0	33	0.5	0.0036
0.119		1	2	0	33	0.5	0.0036

0.117		1.3	2	0	33	0.5	0.0036
0.115		1.6	2	0	33	0.5	0.0036
0.108		1.9	2	0	33	0.5	0.0036
0.096		0.4	3	0	33	0.5	0.0036
0.097		0.7	3	0	33	0.5	0.0036
0.095		1	3	0	33	0.5	0.0036
0.094		1.3	3	0	33	0.5	0.0036
0.093		1.6	3	0	33	0.5	0.0036
0.085		1.9	3	0	33	0.5	0.0036
0.075		0.4	4	0	33	0.5	0.0036
0.072		0.7	4	0	33	0.5	0.0036
0.07		1	4	0	33	0.5	0.0036
0.068		1.3	4	0	33	0.5	0.0036
0.065		1.6	4	0	33	0.5	0.0036
0.044		1.9	4	0	33	0.5	0.0036
0.265		0.4	0	0	33	1	0.0036
0.264		0.7	0	0	33	1	0.0036
0.264		1	0	0	33	1	0.0036
0.263		1.3	0	0	33	1	0.0036
0.264		1.6	0	0	33	1	0.0036
0.253		1.9	0	0	33	1	0.0036
0.247		0.4	0.5	0	33	1	0.0036
0.246		0.7	0.5	0	33	1	0.0036
0.245		1	0.5	0	33	1	0.0036
0.244		1.3	0.5	0	33	1	0.0036
0.244		1.6	0.5	0	33	1	0.0036
0.233		1.9	0.5	0	33	1	0.0036
0.219		0.4	1	0	33	1	0.0036
0.22		0.7	1	0	33	1	0.0036
0.221		1	1	0	33	1	0.0036
0.218		1.3	1	0	33	1	0.0036
0.217		1.6	1	0	33	1	0.0036
0.201	27	1.9	1	0	33	1	0.0036
0.186		0.4	2	0	33	1	0.0036
0.187		0.7	2	0	33	1	0.0036
0.185		1	2	0	33	1	0.0036
0.184		1.3	2	0	33	1	0.0036
0.184		1.6	2	0	33	1	0.0036
0.159		1.9	2	0	33	1	0.0036
0.148		0.4	3	0	33	1	0.0036
0.149		0.7	3	0	33	1	0.0036
0.151		1	3	0	33	1	0.0036
0.15		1.3	3	0	33	1	0.0036
0.149		1.6	3	0	33	1	0.0036
0.141		1.9	3	0	33	1	0.0036
0.116		0.4	4	0	33	1	0.0036
0.115		0.7	4	0	33	1	0.0036
0.112		1	4	0	33	1	0.0036

0.111			1.3	4	0	33	1	0.0036
0.11			1.6	4	0	33	1	0.0036
0.091			1.9	4	0	33	1	0.0036
0.345			0.4	0	0	33	2	0.0036
0.344			0.7	0	0	33	2	0.0036
0.343			1	0	0	33	2	0.0036
0.343			1.3	0	0	33	2	0.0036
0.345			1.6	0	0	33	2	0.0036
0.319			1.9	0	0	33	2	0.0036
0.321			0.4	0.5	0	33	2	0.0036
0.32			0.7	0.5	0	33	2	0.0036
0.32			1	0.5	0	33	2	0.0036
0.319			1.3	0.5	0	33	2	0.0036
0.318			1.6	0.5	0	33	2	0.0036
0.295			1.9	0.5	0	33	2	0.0036
0.285			0.4	1	0	33	2	0.0036
0.284			0.7	1	0	33	2	0.0036
0.283			1	1	0	33	2	0.0036
0.28			1.3	1	0	33	2	0.0036
0.28			1.6	1	0	33	2	0.0036
0.237	24	1	1.9	1	0	33	2	0.0036
0.191			0.4	2	0	33	2	0.0036
0.192			0.7	2	0	33	2	0.0036
0.195			1	2	0	33	2	0.0036
0.191			1.3	2	0	33	2	0.0036
0.192			1.6	2	0	33	2	0.0036
0.176			1.9	2	0	33	2	0.0036
0.149			0.4	3	0	33	2	0.0036
0.148			0.7	3	0	33	2	0.0036
0.151			1	3	0	33	2	0.0036
0.149			1.3	3	0	33	2	0.0036
0.148			1.6	3	0	33	2	0.0036
0.138			1.9	3	0	33	2	0.0036
0.113			0.4	4	0	33	2	0.0036
0.112			0.7	4	0	33	2	0.0036
0.112			1	4	0	33	2	0.0036
0.11			1.3	4	0	33	2	0.0036
0.099			1.6	4	0	33	2	0.0036
0.087			1.9	4	0	33	2	0.0036
0.257			0.4	0	0	45	0.5	0.0036
0.258			0.7	0	0	45	0.5	0.0036
0.257			1	0	0	45	0.5	0.0036
0.259			1.3	0	0	45	0.5	0.0036
0.255			1.6	0	0	45	0.5	0.0036
0.248			1.9	0	0	45	0.5	0.0036
0.229			0.4	0.5	0	45	0.5	0.0036
0.23			0.7	0.5	0	45	0.5	0.0036
0.228			1	0.5	0	45	0.5	0.0036

0.227			1.3	0.5	0	45	0.5	0.0036
0.226			1.6	0.5	0	45	0.5	0.0036
0.211			1.9	0.5	0	45	0.5	0.0036
0.211			0.4	1	0	45	0.5	0.0036
0.21			0.7	1	0	45	0.5	0.0036
0.21			1	1	0	45	0.5	0.0036
0.209			1.3	1	0	45	0.5	0.0036
0.208			1.6	1	0	45	0.5	0.0036
0.189	18	0	1.9	1	0	45	0.5	0.0036
0.165			0.4	2	0	45	0.5	0.0036
0.166			0.7	2	0	45	0.5	0.0036
0.167			1	2	0	45	0.5	0.0036
0.168			1.3	2	0	45	0.5	0.0036
0.165			1.6	2	0	45	0.5	0.0036
0.159			1.9	2	0	45	0.5	0.0036
0.139			0.4	3	0	45	0.5	0.0036
0.14			0.7	3	0	45	0.5	0.0036
0.14			1	3	0	45	0.5	0.0036
0.141			1.3	3	0	45	0.5	0.0036
0.138			1.6	3	0	45	0.5	0.0036
0.125			1.9	3	0	45	0.5	0.0036
0.111			0.4	4	0	45	0.5	0.0036
0.109			0.7	4	0	45	0.5	0.0036
0.108			1	4	0	45	0.5	0.0036
0.107			1.3	4	0	45	0.5	0.0036
0.106			1.6	4	0	45	0.5	0.0036
0.087			1.9	4	0	45	0.5	0.0036
0.372			0.4	0	0	45	1	0.0036
0.371			0.7	0	0	45	1	0.0036
0.37			1	0	0	45	1	0.0036
0.37			1.3	0	0	45	1	0.0036
0.368			1.6	0	0	45	1	0.0036
0.349			1.9	0	0	45	1	0.0036
0.324			0.4	0.5	0	45	1	0.0036
0.323			0.7	0.5	0	45	1	0.0036
0.321			1	0.5	0	45	1	0.0036
0.32			1.3	0.5	0	45	1	0.0036
0.32			1.6	0.5	0	45	1	0.0036
0.301			1.9	0.5	0	45	1	0.0036
0.288			0.4	1	0	45	1	0.0036
0.289			0.7	1	0	45	1	0.0036
0.286			1	1	0	45	1	0.0036
0.284			1.3	1	0	45	1	0.0036
0.284			1.6	1	0	45	1	0.0036
0.26	20	1	1.9	1	0	45	1	0.0036
0.211			0.4	2	0	45	1	0.0036
0.212			0.7	2	0	45	1	0.0036
0.212			1	2	0	45	1	0.0036

0.213		1.3	2	0	45	1	0.0036
0.21		1.6	2	0	45	1	0.0036
0.179		1.9	2	0	45	1	0.0036
0.144		0.4	3	0	45	1	0.0036
0.145		0.7	3	0	45	1	0.0036
0.146		1	3	0	45	1	0.0036
0.147		1.3	3	0	45	1	0.0036
0.148		1.6	3	0	45	1	0.0036
0.125		1.9	3	0	45	1	0.0036
0.11		0.4	4	0	45	1	0.0036
0.11		0.7	4	0	45	1	0.0036
0.109		1	4	0	45	1	0.0036
0.108		1.3	4	0	45	1	0.0036
0.107		1.6	4	0	45	1	0.0036
0.078		1.9	4	0	45	1	0.0036
0.445		0.4	0	0	45	2	0.0036
0.444		0.7	0	0	45	2	0.0036
0.441		1	0	0	45	2	0.0036
0.44		1.3	0	0	45	2	0.0036
0.44		1.6	0	0	45	2	0.0036
0.401		1.9	0	0	45	2	0.0036
0.399		0.4	0.5	0	45	2	0.0036
0.398		0.7	0.5	0	45	2	0.0036
0.395		1	0.5	0	45	2	0.0036
0.395		1.3	0.5	0	45	2	0.0036
0.393		1.6	0.5	0	45	2	0.0036
0.358		1.9	0.5	0	45	2	0.0036
0.341		0.4	1	0	45	2	0.0036
0.344		0.7	1	0	45	2	0.0036
0.339		1	1	0	45	2	0.0036
0.338		1.3	1	0	45	2	0.0036
0.337		1.6	1	0	45	2	0.0036
0.31	21 1	1.9	1	0	45	2	0.0036
0.239		0.4	2	0	45	2	0.0036
0.24		0.7	2	0	45	2	0.0036
0.238		1	2	0	45	2	0.0036
0.234		1.3	2	0	45	2	0.0036
0.231		1.6	2	0	45	2	0.0036
0.202		1.9	2	0	45	2	0.0036
0.157		0.4	3	0	45	2	0.0036
0.156		0.7	3	0	45	2	0.0036
0.157		1	3	0	45	2	0.0036
0.155		1.3	3	0	45	2	0.0036
0.156		1.6	3	0	45	2	0.0036
0.138		1.9	3	0	45	2	0.0036
0.121		0.4	4	0	45	2	0.0036
0.118		0.7	4	0	45	2	0.0036
0.117		1	4	0	45	2	0.0036

0.115		1.3	4	0	45	2	0.0036
0.116		1.6	4	0	45	2	0.0036
0.101		1.9	4	0	45	2	0.0036
0.189		0.4	0	3	33	0.5	0.0036
0.188		0.7	0	3	33	0.5	0.0036
0.188		1	0	3	33	0.5	0.0036
0.187		1.3	0	3	33	0.5	0.0036
0.186		1.6	0	3	33	0.5	0.0036
0.173		1.9	0	3	33	0.5	0.0036
0.16		0.4	0.5	3	33	0.5	0.0036
0.159		0.7	0.5	3	33	0.5	0.0036
0.158		1	0.5	3	33	0.5	0.0036
0.158		1.3	0.5	3	33	0.5	0.0036
0.157		1.6	0.5	3	33	0.5	0.0036
0.151		1.9	0.5	3	33	0.5	0.0036
0.137		0.4	1	3	33	0.5	0.0036
0.138		0.7	1	3	33	0.5	0.0036
0.137		1	1	3	33	0.5	0.0036
0.136		1.3	1	3	33	0.5	0.0036
0.137		1.6	1	3	33	0.5	0.0036
0.129	24 1	1.9	1	3	33	0.5	0.0036
0.11		0.4	2	3	33	0.5	0.0036
0.111		0.7	2	3	33	0.5	0.0036
0.109		1	2	3	33	0.5	0.0036
0.108		1.3	2	3	33	0.5	0.0036
0.105		1.6	2	3	33	0.5	0.0036
0.096		1.9	2	3	33	0.5	0.0036
0.091		0.4	3	3	33	0.5	0.0036
0.09		0.7	3	3	33	0.5	0.0036
0.09		1	3	3	33	0.5	0.0036
0.089		1.3	3	3	33	0.5	0.0036
0.087		1.6	3	3	33	0.5	0.0036
0.063		1.9	3	3	33	0.5	0.0036
0.061		0.4	4	3	33	0.5	0.0036
0.06		0.7	4	3	33	0.5	0.0036
0.062		1	4	3	33	0.5	0.0036
0.059		1.3	4	3	33	0.5	0.0036
0.058		1.6	4	3	33	0.5	0.0036
0.036		1.9	4	3	33	0.5	0.0036
0.261		0.4	0	3	33	1	0.0036
0.261		0.7	0	3	33	1	0.0036
0.262		1	0	3	33	1	0.0036
0.26		1.3	0	3	33	1	0.0036
0.26		1.6	0	3	33	1	0.0036
0.241		1.9	0	3	33	1	0.0036
0.239		0.4	0.5	3	33	1	0.0036
0.238		0.7	0.5	3	33	1	0.0036
0.235		1	0.5	3	33	1	0.0036

0.233		1.3	0.5	3	33	1	0.0036
0.231		1.6	0.5	3	33	1	0.0036
0.216		1.9	0.5	3	33	1	0.0036
0.198		0.4	1	3	33	1	0.0036
0.199		0.7	1	3	33	1	0.0036
0.198		1	1	3	33	1	0.0036
0.195		1.3	1	3	33	1	0.0036
0.196		1.6	1	3	33	1	0.0036
0.173	23	1.9	1	3	33	1	0.0036
0.161		0.4	2	3	33	1	0.0036
0.16		0.7	2	3	33	1	0.0036
0.16		1	2	3	33	1	0.0036
0.159		1.3	2	3	33	1	0.0036
0.153		1.6	2	3	33	1	0.0036
0.141		1.9	2	3	33	1	0.0036
0.133		0.4	3	3	33	1	0.0036
0.132		0.7	3	3	33	1	0.0036
0.131		1	3	3	33	1	0.0036
0.132		1.3	3	3	33	1	0.0036
0.134		1.6	3	3	33	1	0.0036
0.107		1.9	3	3	33	1	0.0036
0.101		0.4	4	3	33	1	0.0036
0.099		0.7	4	3	33	1	0.0036
0.098		1	4	3	33	1	0.0036
0.1		1.3	4	3	33	1	0.0036
0.095		1.6	4	3	33	1	0.0036
0.074		1.9	4	3	33	1	0.0036
0.339		0.4	0	3	33	2	0.0036
0.338		0.7	0	3	33	2	0.0036
0.337		1	0	3	33	2	0.0036
0.338		1.3	0	3	33	2	0.0036
0.339		1.6	0	3	33	2	0.0036
0.318		1.9	0	3	33	2	0.0036
0.308		0.4	0.5	3	33	2	0.0036
0.308		0.7	0.5	3	33	2	0.0036
0.306		1	0.5	3	33	2	0.0036
0.307		1.3	0.5	3	33	2	0.0036
0.305		1.6	0.5	3	33	2	0.0036
0.286		1.9	0.5	3	33	2	0.0036
0.261		0.4	1	3	33	2	0.0036
0.26		0.7	1	3	33	2	0.0036
0.259		1	1	3	33	2	0.0036
0.258		1.3	1	3	33	2	0.0036
0.255		1.6	1	3	33	2	0.0036
0.215	27	1.9	1	3	33	2	0.0036
0.175		0.4	2	3	33	2	0.0036
0.174		0.7	2	3	33	2	0.0036
0.173		1	2	3	33	2	0.0036

0.172		1.3	2	3	33	2	0.0036
0.17		1.6	2	3	33	2	0.0036
0.151		1.9	2	3	33	2	0.0036
0.133		0.4	3	3	33	2	0.0036
0.136		0.7	3	3	33	2	0.0036
0.135		1	3	3	33	2	0.0036
0.137		1.3	3	3	33	2	0.0036
0.135		1.6	3	3	33	2	0.0036
0.118		1.9	3	3	33	2	0.0036
0.101		0.4	4	3	33	2	0.0036
0.1		0.7	4	3	33	2	0.0036
0.1		1	4	3	33	2	0.0036
0.102		1.3	4	3	33	2	0.0036
0.101		1.6	4	3	33	2	0.0036
0.068		1.9	4	3	33	2	0.0036
0.244		0.4	0	3	45	0.5	0.0036
0.243		0.7	0	3	45	0.5	0.0036
0.241		1	0	3	45	0.5	0.0036
0.24		1.3	0	3	45	0.5	0.0036
0.24		1.6	0	3	45	0.5	0.0036
0.231		1.9	0	3	45	0.5	0.0036
0.218		0.4	0.5	3	45	0.5	0.0036
0.217		0.7	0.5	3	45	0.5	0.0036
0.216		1	0.5	3	45	0.5	0.0036
0.215		1.3	0.5	3	45	0.5	0.0036
0.211		1.6	0.5	3	45	0.5	0.0036
0.196		1.9	0.5	3	45	0.5	0.0036
0.193		0.4	1	3	45	0.5	0.0036
0.194		0.7	1	3	45	0.5	0.0036
0.193		1	1	3	45	0.5	0.0036
0.19		1.3	1	3	45	0.5	0.0036
0.189		1.6	1	3	45	0.5	0.0036
0.175	21	1.9	1	3	45	0.5	0.0036
0.159		0.4	2	3	45	0.5	0.0036
0.158		0.7	2	3	45	0.5	0.0036
0.154		1	2	3	45	0.5	0.0036
0.153		1.3	2	3	45	0.5	0.0036
0.152		1.6	2	3	45	0.5	0.0036
0.142		1.9	2	3	45	0.5	0.0036
0.122		0.4	3	3	45	0.5	0.0036
0.121		0.7	3	3	45	0.5	0.0036
0.12		1	3	3	45	0.5	0.0036
0.119		1.3	3	3	45	0.5	0.0036
0.117		1.6	3	3	45	0.5	0.0036
0.092		1.9	3	3	45	0.5	0.0036
0.098		0.4	4	3	45	0.5	0.0036
0.095		0.7	4	3	45	0.5	0.0036
0.094		1	4	3	45	0.5	0.0036

0.093		1.3	4	3	45	0.5	0.0036
0.091		1.6	4	3	45	0.5	0.0036
0.062		1.9	4	3	45	0.5	0.0036
0.368		0.4	0	3	45	1	0.0036
0.365		0.7	0	3	45	1	0.0036
0.367		1	0	3	45	1	0.0036
0.365		1.3	0	3	45	1	0.0036
0.361		1.6	0	3	45	1	0.0036
0.332		1.9	0	3	45	1	0.0036
0.304		0.4	0.5	3	45	1	0.0036
0.303		0.7	0.5	3	45	1	0.0036
0.302		1	0.5	3	45	1	0.0036
0.3		1.3	0.5	3	45	1	0.0036
0.299		1.6	0.5	3	45	1	0.0036
0.278		1.9	0.5	3	45	1	0.0036
0.259		0.4	1	3	45	1	0.0036
0.253		0.7	1	3	45	1	0.0036
0.252		1	1	3	45	1	0.0036
0.25		1.3	1	3	45	1	0.0036
0.251		1.6	1	3	45	1	0.0036
0.231	20 1	1.9	1	3	45	1	0.0036
0.182		0.4	2	3	45	1	0.0036
0.18		0.7	2	3	45	1	0.0036
0.181		1	2	3	45	1	0.0036
0.179		1.3	2	3	45	1	0.0036
0.175		1.6	2	3	45	1	0.0036
0.16		1.9	2	3	45	1	0.0036
0.139		0.4	3	3	45	1	0.0036
0.138		0.7	3	3	45	1	0.0036
0.135		1	3	3	45	1	0.0036
0.135		1.3	3	3	45	1	0.0036
0.133		1.6	3	3	45	1	0.0036
0.117		1.9	3	3	45	1	0.0036
0.095		0.4	4	3	45	1	0.0036
0.095		0.7	4	3	45	1	0.0036
0.096		1	4	3	45	1	0.0036
0.097		1.3	4	3	45	1	0.0036
0.093		1.6	4	3	45	1	0.0036
0.066		1.9	4	3	45	1	0.0036
0.439		0.4	0	3	45	2	0.0036
0.438		0.7	0	3	45	2	0.0036
0.437		1	0	3	45	2	0.0036
0.435		1.3	0	3	45	2	0.0036
0.431		1.6	0	3	45	2	0.0036
0.406		1.9	0	3	45	2	0.0036
0.384		0.4	0.5	3	45	2	0.0036
0.383		0.7	0.5	3	45	2	0.0036
0.382		1	0.5	3	45	2	0.0036

0.384		1.3	0.5	3	45	2	0.0036
0.385		1.6	0.5	3	45	2	0.0036
0.344		1.9	0.5	3	45	2	0.0036
0.303		0.4	1	3	45	2	0.0036
0.302		0.7	1	3	45	2	0.0036
0.301		1	1	3	45	2	0.0036
0.3		1.3	1	3	45	2	0.0036
0.299		1.6	1	3	45	2	0.0036
0.282	21	1.9	1	3	45	2	0.0036
0.199		0.4	2	3	45	2	0.0036
0.199		0.7	2	3	45	2	0.0036
0.201		1	2	3	45	2	0.0036
0.2		1.3	2	3	45	2	0.0036
0.199		1.6	2	3	45	2	0.0036
0.174		1.9	2	3	45	2	0.0036
0.148		0.4	3	3	45	2	0.0036
0.148		0.7	3	3	45	2	0.0036
0.149		1	3	3	45	2	0.0036
0.15		1.3	3	3	45	2	0.0036
0.149		1.6	3	3	45	2	0.0036
0.136		1.9	3	3	45	2	0.0036
0.098		0.4	4	3	45	2	0.0036
0.099		0.7	4	3	45	2	0.0036
0.099		1	4	3	45	2	0.0036
0.1		1.3	4	3	45	2	0.0036
0.101		1.6	4	3	45	2	0.0036
0.066		1.9	4	3	45	2	0.0036
0.184		0.4	0	5	33	0.5	0.0036
0.183		0.7	0	5	33	0.5	0.0036
0.181		1	0	5	33	0.5	0.0036
0.18		1.3	0	5	33	0.5	0.0036
0.179		1.6	0	5	33	0.5	0.0036
0.162		1.9	0	5	33	0.5	0.0036
0.157		0.4	0.5	5	33	0.5	0.0036
0.155		0.7	0.5	5	33	0.5	0.0036
0.152		1	0.5	5	33	0.5	0.0036
0.151		1.3	0.5	5	33	0.5	0.0036
0.15		1.6	0.5	5	33	0.5	0.0036
0.147		1.9	0.5	5	33	0.5	0.0036
0.121		0.4	1	5	33	0.5	0.0036
0.12		0.7	1	5	33	0.5	0.0036
0.119		1	1	5	33	0.5	0.0036
0.117		1.3	1	5	33	0.5	0.0036
0.115		1.6	1	5	33	0.5	0.0036
0.101	23	1.9	1	5	33	0.5	0.0036
0.085		0.4	2	5	33	0.5	0.0036
0.084		0.7	2	5	33	0.5	0.0036
0.083		1	2	5	33	0.5	0.0036

0.081		1.3	2	5	33	0.5	0.0036
0.08		1.6	2	5	33	0.5	0.0036
0.066		1.9	2	5	33	0.5	0.0036
0.059		0.4	3	5	33	0.5	0.0036
0.057		0.7	3	5	33	0.5	0.0036
0.055		1	3	5	33	0.5	0.0036
0.051		1.3	3	5	33	0.5	0.0036
0.05		1.6	3	5	33	0.5	0.0036
0.032		1.9	3	5	33	0.5	0.0036
0.028		0.4	4	5	33	0.5	0.0036
0.025		0.7	4	5	33	0.5	0.0036
0.024		1	4	5	33	0.5	0.0036
0.023		1.3	4	5	33	0.5	0.0036
0.02		1.6	4	5	33	0.5	0.0036
0.007		1.9	4	5	33	0.5	0.0036
0.255		0.4	0	5	33	1	0.0036
0.256		0.7	0	5	33	1	0.0036
0.255		1	0	5	33	1	0.0036
0.254		1.3	0	5	33	1	0.0036
0.251		1.6	0	5	33	1	0.0036
0.236		1.9	0	5	33	1	0.0036
0.222		0.4	0.5	5	33	1	0.0036
0.221		0.7	0.5	5	33	1	0.0036
0.22		1	0.5	5	33	1	0.0036
0.22		1.3	0.5	5	33	1	0.0036
0.219		1.6	0.5	5	33	1	0.0036
0.198		1.9	0.5	5	33	1	0.0036
0.184		0.4	1	5	33	1	0.0036
0.181		0.7	1	5	33	1	0.0036
0.18		1	1	5	33	1	0.0036
0.178		1.3	1	5	33	1	0.0036
0.175		1.6	1	5	33	1	0.0036
0.154	24	1.9	1	5	33	1	0.0036
0.144		0.4	2	5	33	1	0.0036
0.145		0.7	2	5	33	1	0.0036
0.144		1	2	5	33	1	0.0036
0.143		1.3	2	5	33	1	0.0036
0.141		1.6	2	5	33	1	0.0036
0.132		1.9	2	5	33	1	0.0036
0.116		0.4	3	5	33	1	0.0036
0.115		0.7	3	5	33	1	0.0036
0.111		1	3	5	33	1	0.0036
0.11		1.3	3	5	33	1	0.0036
0.108		1.6	3	5	33	1	0.0036
0.097		1.9	3	5	33	1	0.0036
0.071		0.4	4	5	33	1	0.0036
0.072		0.7	4	5	33	1	0.0036
0.068		1	4	5	33	1	0.0036

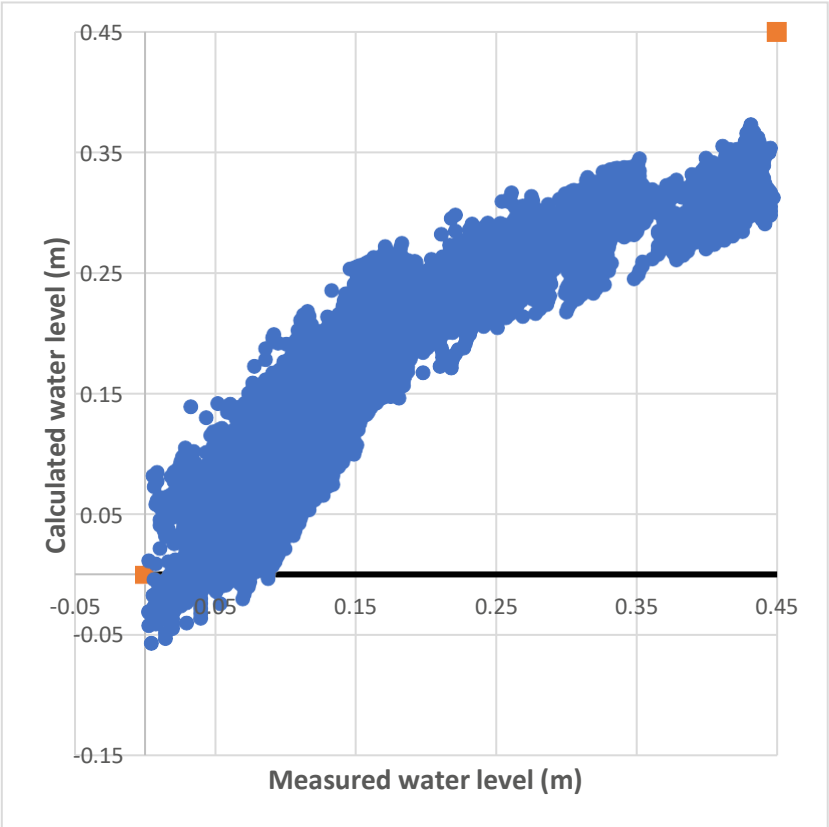
0.067			1.3	4	5	33	1	0.0036
0.064			1.6	4	5	33	1	0.0036
0.034			1.9	4	5	33	1	0.0036
0.336			0.4	0	5	33	2	0.0036
0.335			0.7	0	5	33	2	0.0036
0.331			1	0	5	33	2	0.0036
0.33			1.3	0	5	33	2	0.0036
0.328			1.6	0	5	33	2	0.0036
0.313			1.9	0	5	33	2	0.0036
0.299			0.4	0.5	5	33	2	0.0036
0.3			0.7	0.5	5	33	2	0.0036
0.295			1	0.5	5	33	2	0.0036
0.294			1.3	0.5	5	33	2	0.0036
0.291			1.6	0.5	5	33	2	0.0036
0.274			1.9	0.5	5	33	2	0.0036
0.246			0.4	1	5	33	2	0.0036
0.245			0.7	1	5	33	2	0.0036
0.244			1	1	5	33	2	0.0036
0.24			1.3	1	5	33	2	0.0036
0.237			1.6	1	5	33	2	0.0036
0.212	24	1	1.9	1	5	33	2	0.0036
0.161			0.4	2	5	33	2	0.0036
0.159			0.7	2	5	33	2	0.0036
0.16			1	2	5	33	2	0.0036
0.154			1.3	2	5	33	2	0.0036
0.154			1.6	2	5	33	2	0.0036
0.133			1.9	2	5	33	2	0.0036
0.119			0.4	3	5	33	2	0.0036
0.12			0.7	3	5	33	2	0.0036
0.118			1	3	5	33	2	0.0036
0.119			1.3	3	5	33	2	0.0036
0.12			1.6	3	5	33	2	0.0036
0.087			1.9	3	5	33	2	0.0036
0.075			0.4	4	5	33	2	0.0036
0.071			0.7	4	5	33	2	0.0036
0.069			1	4	5	33	2	0.0036
0.065			1.3	4	5	33	2	0.0036
0.063			1.6	4	5	33	2	0.0036
0.041			1.9	4	5	33	2	0.0036
0.239			0.4	0	5	45	0.5	0.0036
0.238			0.7	0	5	45	0.5	0.0036
0.237			1	0	5	45	0.5	0.0036
0.236			1.3	0	5	45	0.5	0.0036
0.231			1.6	0	5	45	0.5	0.0036
0.214			1.9	0	5	45	0.5	0.0036
0.211			0.4	0.5	5	45	0.5	0.0036
0.208			0.7	0.5	5	45	0.5	0.0036
0.207			1	0.5	5	45	0.5	0.0036

0.206			1.3	0.5	5	45	0.5	0.0036
0.201			1.6	0.5	5	45	0.5	0.0036
0.175			1.9	0.5	5	45	0.5	0.0036
0.171			0.4	1	5	45	0.5	0.0036
0.172			0.7	1	5	45	0.5	0.0036
0.168			1	1	5	45	0.5	0.0036
0.165			1.3	1	5	45	0.5	0.0036
0.169			1.6	1	5	45	0.5	0.0036
0.148	23	3	1.9	1	5	45	0.5	0.0036
0.136			0.4	2	5	45	0.5	0.0036
0.135			0.7	2	5	45	0.5	0.0036
0.137			1	2	5	45	0.5	0.0036
0.131			1.3	2	5	45	0.5	0.0036
0.13			1.6	2	5	45	0.5	0.0036
0.114			1.9	2	5	45	0.5	0.0036
0.103			0.4	3	5	45	0.5	0.0036
0.101			0.7	3	5	45	0.5	0.0036
0.1			1	3	5	45	0.5	0.0036
0.095			1.3	3	5	45	0.5	0.0036
0.091			1.6	3	5	45	0.5	0.0036
0.077			1.9	3	5	45	0.5	0.0036
0.061			0.4	4	5	45	0.5	0.0036
0.062			0.7	4	5	45	0.5	0.0036
0.059			1	4	5	45	0.5	0.0036
0.055			1.3	4	5	45	0.5	0.0036
0.049			1.6	4	5	45	0.5	0.0036
0.028			1.9	4	5	45	0.5	0.0036
0.354			0.4	0	5	45	1	0.0036
0.354			0.7	0	5	45	1	0.0036
0.352			1	0	5	45	1	0.0036
0.351			1.3	0	5	45	1	0.0036
0.348			1.6	0	5	45	1	0.0036
0.321			1.9	0	5	45	1	0.0036
0.288			0.4	0.5	5	45	1	0.0036
0.287			0.7	0.5	5	45	1	0.0036
0.286			1	0.5	5	45	1	0.0036
0.281			1.3	0.5	5	45	1	0.0036
0.278			1.6	0.5	5	45	1	0.0036
0.257			1.9	0.5	5	45	1	0.0036
0.232			0.4	1	5	45	1	0.0036
0.231			0.7	1	5	45	1	0.0036
0.229			1	1	5	45	1	0.0036
0.228			1.3	1	5	45	1	0.0036
0.227			1.6	1	5	45	1	0.0036
0.198	21	1	1.9	1	5	45	1	0.0036
0.168			0.4	2	5	45	1	0.0036
0.165			0.7	2	5	45	1	0.0036
0.161			1	2	5	45	1	0.0036

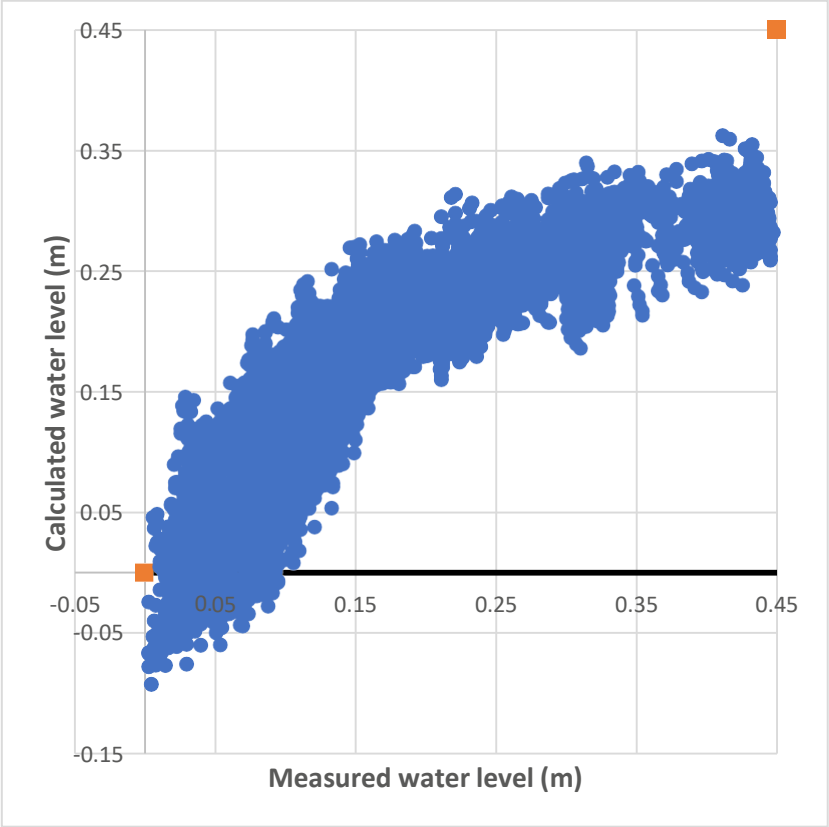
0.159		1.3	2	5	45	1	0.0036
0.155		1.6	2	5	45	1	0.0036
0.134		1.9	2	5	45	1	0.0036
0.11		0.4	3	5	45	1	0.0036
0.111		0.7	3	5	45	1	0.0036
0.108		1	3	5	45	1	0.0036
0.107		1.3	3	5	45	1	0.0036
0.106		1.6	3	5	45	1	0.0036
0.087		1.9	3	5	45	1	0.0036
0.064		0.4	4	5	45	1	0.0036
0.063		0.7	4	5	45	1	0.0036
0.059		1	4	5	45	1	0.0036
0.06		1.3	4	5	45	1	0.0036
0.054		1.6	4	5	45	1	0.0036
0.031		1.9	4	5	45	1	0.0036
0.441		0.4	0	5	45	2	0.0036
0.44		0.7	0	5	45	2	0.0036
0.439		1	0	5	45	2	0.0036
0.435		1.3	0	5	45	2	0.0036
0.431		1.6	0	5	45	2	0.0036
0.412		1.9	0	5	45	2	0.0036
0.375		0.4	0.5	5	45	2	0.0036
0.376		0.7	0.5	5	45	2	0.0036
0.375		1	0.5	5	45	2	0.0036
0.369		1.3	0.5	5	45	2	0.0036
0.365		1.6	0.5	5	45	2	0.0036
0.329		1.9	0.5	5	45	2	0.0036
0.286		0.4	1	5	45	2	0.0036
0.284		0.7	1	5	45	2	0.0036
0.281		1	1	5	45	2	0.0036
0.28		1.3	1	5	45	2	0.0036
0.274		1.6	1	5	45	2	0.0036
0.243	21 1	1.9	1	5	45	2	0.0036
0.191		0.4	2	5	45	2	0.0036
0.192		0.7	2	5	45	2	0.0036
0.193		1	2	5	45	2	0.0036
0.19		1.3	2	5	45	2	0.0036
0.189		1.6	2	5	45	2	0.0036
0.153		1.9	2	5	45	2	0.0036
0.139		0.4	3	5	45	2	0.0036
0.14		0.7	3	5	45	2	0.0036
0.142		1	3	5	45	2	0.0036
0.141		1.3	3	5	45	2	0.0036
0.135		1.6	3	5	45	2	0.0036
0.124		1.9	3	5	45	2	0.0036
0.078		0.4	4	5	45	2	0.0036
0.074		0.7	4	5	45	2	0.0036
0.076		1	4	5	45	2	0.0036

0.069	1.3	4	5	45	2	0.0036
0.068	1.6	4	5	45	2	0.0036
0.041	1.9	4	5	45	2	0.0036

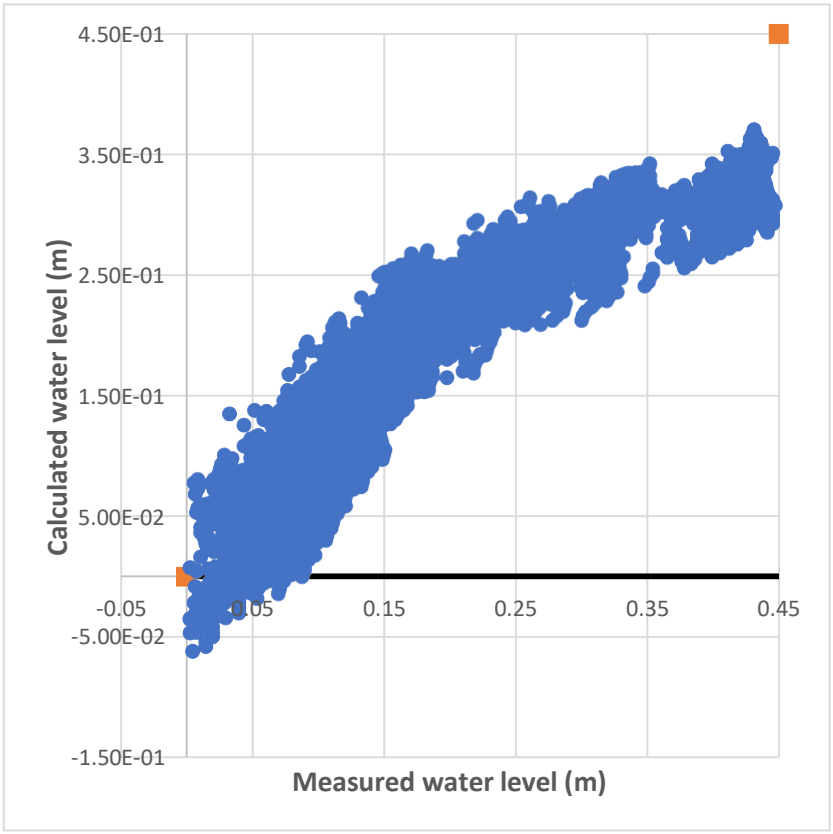
Appendix III



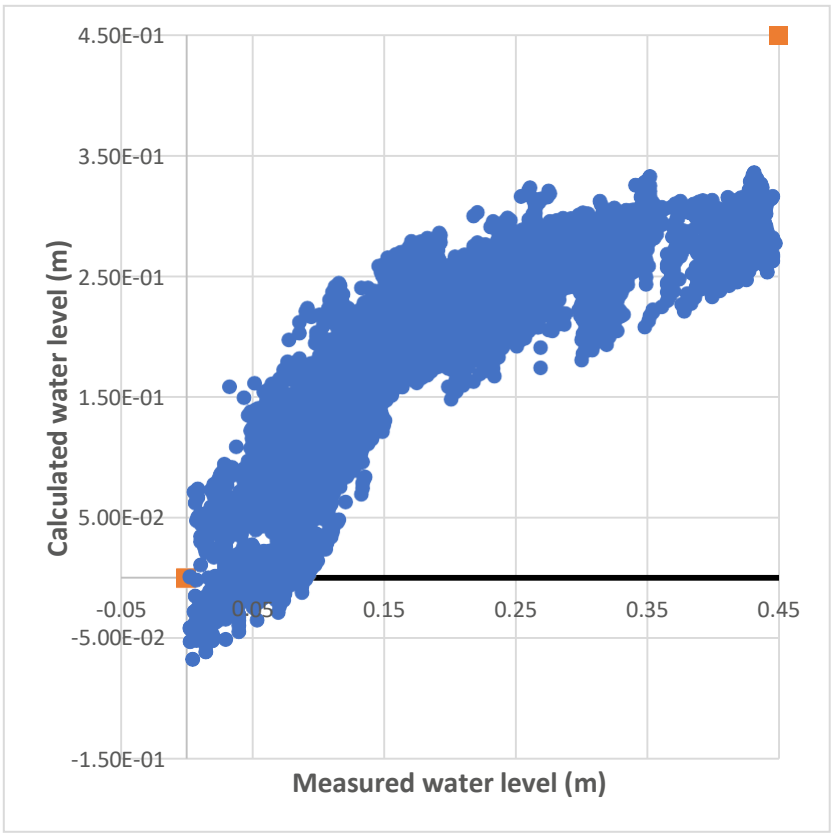
Measured water level vs calculated water level total test results for Model1



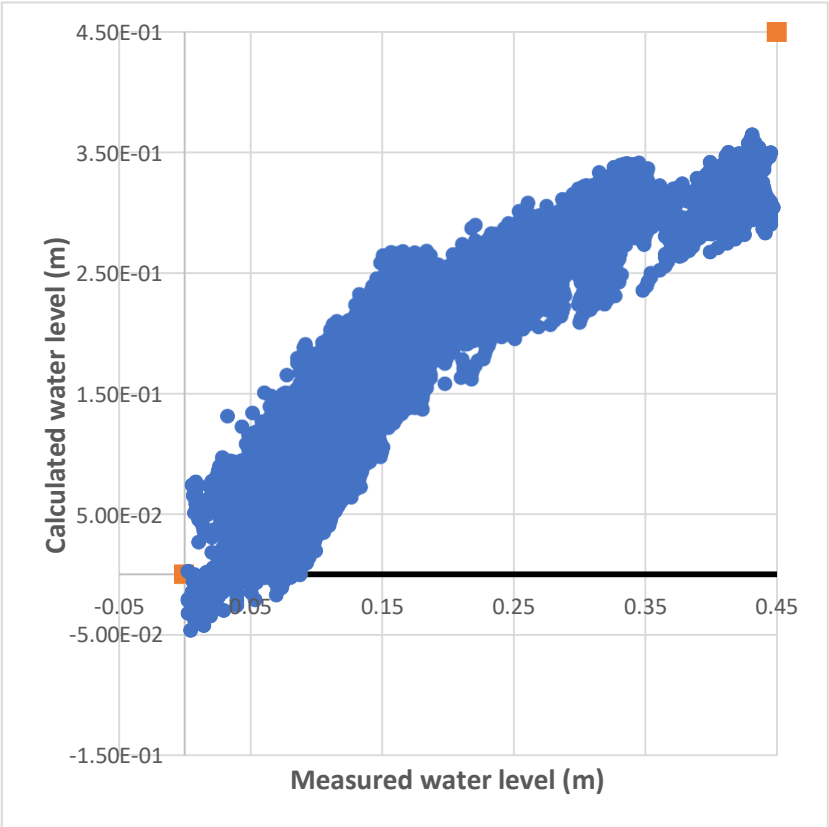
Measured water level vs calculated water level total test results for Model2



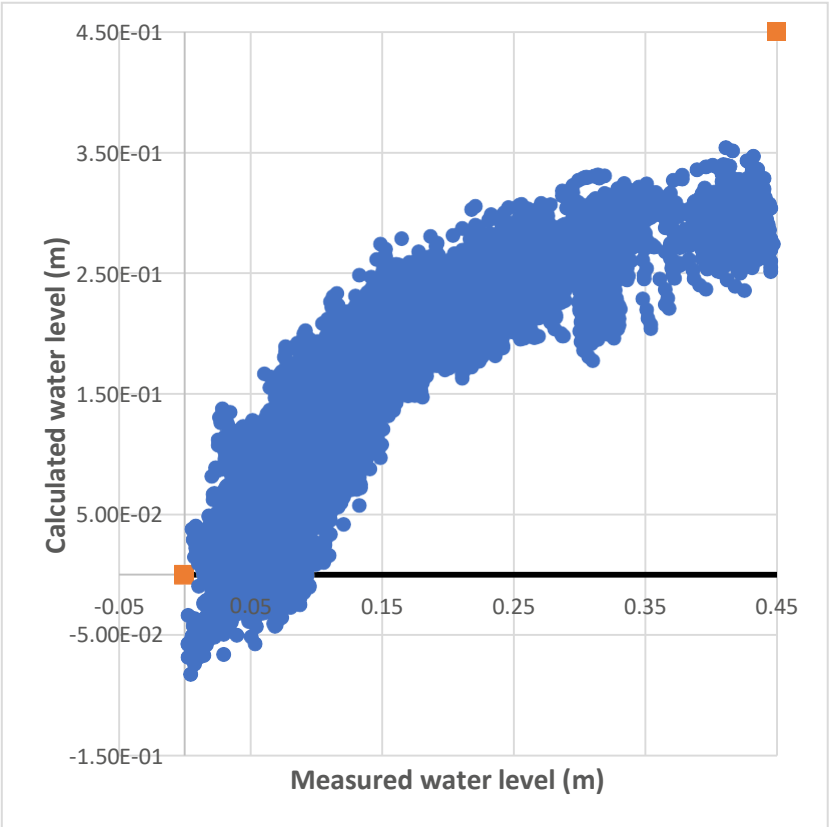
Measured water level vs calculated water level total test results for Model3



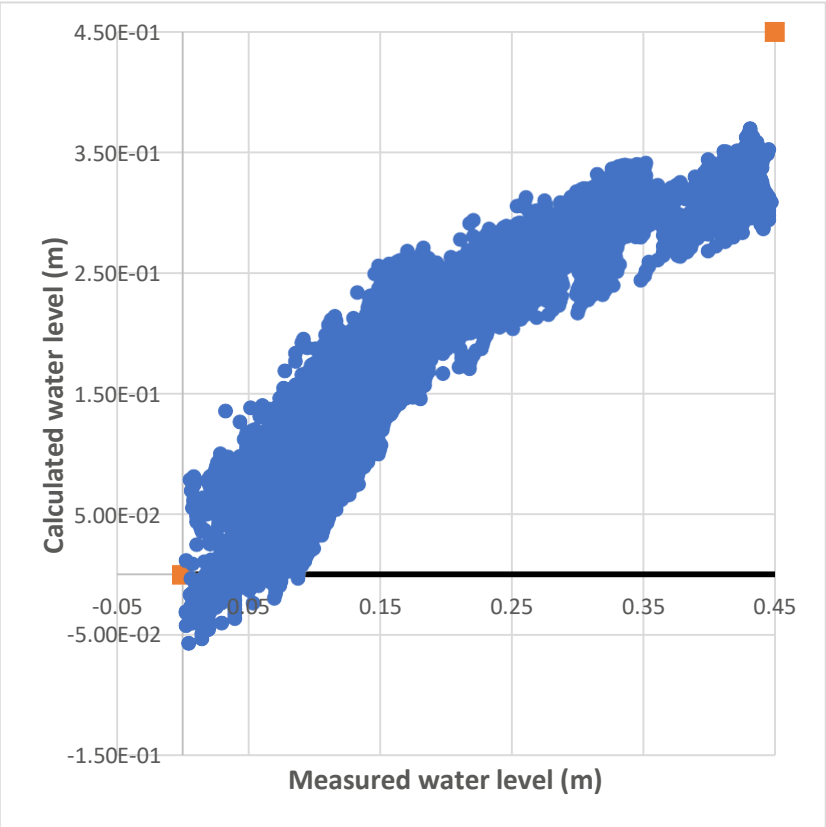
Measured water level vs calculated water level total test results for Model4



Measured water level vs calculated water level total test results for Model5



Measured water level vs calculated water level total test results for Model6



Measured water level vs calculated water level total test results for Model7

	Model number						
	1	2	3	4	5	6	7
y	Negative predictions						
	195	260	193	275	177	263	193

Measure water level (m)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)
0.15	0.231128	0.18559	2.28E-01	1.94E-01	2.41E-01	1.96E-01	2.31E-01
0.15	0.22756	0.188975	2.24E-01	1.92E-01	2.38E-01	1.99E-01	2.27E-01
0.15	0.223991	0.194207	2.21E-01	1.89E-01	2.34E-01	2.04E-01	2.23E-01
0.15	0.220423	0.201285	2.17E-01	1.85E-01	2.30E-01	2.11E-01	2.20E-01
0.14	0.216854	0.21021	2.13E-01	1.80E-01	2.27E-01	2.20E-01	2.16E-01
0.13	0.213286	0.220981	2.10E-01	1.74E-01	2.23E-01	2.31E-01	2.12E-01
0.14	0.202908	0.179545	2.00E-01	1.91E-01	2.13E-01	1.90E-01	2.03E-01
0.14	0.199282	0.179618	1.96E-01	1.89E-01	2.09E-01	1.90E-01	1.99E-01
0.14	0.195655	0.181537	1.92E-01	1.86E-01	2.06E-01	1.92E-01	1.95E-01
0.13	0.192029	0.185303	1.89E-01	1.82E-01	2.02E-01	1.95E-01	1.91E-01
0.13	0.188403	0.190915	1.85E-01	1.77E-01	1.98E-01	2.01E-01	1.88E-01
0.12	0.184777	0.198374	1.81E-01	1.71E-01	1.95E-01	2.08E-01	1.84E-01
0.12	0.174687	0.170244	1.71E-01	1.82E-01	1.85E-01	1.80E-01	1.74E-01
0.12	0.171004	0.167004	1.68E-01	1.80E-01	1.81E-01	1.77E-01	1.71E-01
0.12	0.16732	0.165611	1.64E-01	1.77E-01	1.77E-01	1.76E-01	1.67E-01
0.12	0.163636	0.166064	1.60E-01	1.73E-01	1.74E-01	1.76E-01	1.63E-01
0.12	0.159952	0.168364	1.57E-01	1.67E-01	1.70E-01	1.78E-01	1.59E-01
0.11	0.156268	0.17251	1.53E-01	1.61E-01	1.66E-01	1.82E-01	1.55E-01
0.09	0.118247	0.141873	1.15E-01	1.44E-01	1.28E-01	1.52E-01	1.18E-01
0.09	0.114447	0.132008	1.11E-01	1.42E-01	1.24E-01	1.42E-01	1.14E-01
0.09	0.110648	0.12399	1.07E-01	1.39E-01	1.21E-01	1.34E-01	1.10E-01
0.08	0.106849	0.117818	1.03E-01	1.35E-01	1.17E-01	1.28E-01	1.06E-01
0.08	0.10305	0.113492	9.97E-02	1.30E-01	1.13E-01	1.23E-01	1.02E-01
0.05	0.099251	0.111013	9.59E-02	1.24E-01	1.09E-01	1.21E-01	9.87E-02
0.07	0.061806	0.100477	5.84E-02	8.21E-02	7.18E-02	1.10E-01	6.08E-02
0.07	0.057891	0.083987	5.45E-02	8.01E-02	6.79E-02	9.40E-02	5.71E-02

0.07	0.053977	0.069344	5.06E-02	7.71E-02	6.40E-02	7.93E-02	5.33E-02
0.07	0.050062	0.056547	4.67E-02	7.30E-02	6.00E-02	6.65E-02	4.95E-02
0.07	0.046148	0.045596	4.28E-02	6.78E-02	5.61E-02	5.56E-02	4.57E-02
0.04	0.042233	0.036492	3.88E-02	6.16E-02	5.22E-02	4.65E-02	4.20E-02
0.05	0.005365	0.046057	1.98E-03	-5.10E-03	1.54E-02	5.60E-02	4.09E-03
0.04	0.001335	0.022942	-2.05E-03	-7.07E-03	1.13E-02	3.29E-02	3.24E-04
0.04	-0.00269	0.001673	-6.08E-03	-1.01E-02	7.29E-03	1.17E-02	-3.45E-03
0.04	-0.00672	-0.01775	-1.01E-02	-1.42E-02	3.26E-03	-7.76E-03	-7.22E-03
0.04	-0.01075	-0.03532	-1.41E-02	-1.94E-02	-7.69E-04	-2.53E-02	-1.10E-02
0.03	-0.01478	-0.05105	-1.82E-02	-2.57E-02	-4.80E-03	-4.11E-02	-1.48E-02
0.21	0.257218	0.21168	2.54E-01	2.20E-01	2.56E-01	2.10E-01	2.58E-01
0.21	0.253649	0.215065	2.50E-01	2.18E-01	2.52E-01	2.14E-01	2.54E-01
0.21	0.250081	0.220297	2.47E-01	2.15E-01	2.49E-01	2.19E-01	2.51E-01
0.2	0.246513	0.227375	2.43E-01	2.11E-01	2.45E-01	2.26E-01	2.47E-01
0.2	0.242944	0.2363	2.40E-01	2.06E-01	2.41E-01	2.35E-01	2.43E-01
0.18	0.239376	0.247071	2.36E-01	2.00E-01	2.38E-01	2.46E-01	2.39E-01
0.18	0.228998	0.205635	2.26E-01	2.17E-01	2.27E-01	2.04E-01	2.30E-01
0.18	0.225371	0.205708	2.22E-01	2.15E-01	2.24E-01	2.04E-01	2.26E-01
0.18	0.221745	0.207627	2.18E-01	2.12E-01	2.20E-01	2.06E-01	2.22E-01
0.18	0.218119	0.211393	2.15E-01	2.08E-01	2.17E-01	2.10E-01	2.18E-01
0.17	0.214493	0.217005	2.11E-01	2.03E-01	2.13E-01	2.15E-01	2.15E-01
0.16	0.210867	0.224464	2.07E-01	1.97E-01	2.09E-01	2.23E-01	2.11E-01
0.15	0.200777	0.196334	1.97E-01	2.08E-01	1.99E-01	1.95E-01	2.01E-01
0.16	0.197093	0.193094	1.94E-01	2.06E-01	1.96E-01	1.92E-01	1.98E-01
0.15	0.19341	0.191701	1.90E-01	2.03E-01	1.92E-01	1.90E-01	1.94E-01
0.15	0.189726	0.192154	1.86E-01	1.99E-01	1.88E-01	1.91E-01	1.90E-01
0.14	0.186042	0.194453	1.83E-01	1.94E-01	1.85E-01	1.93E-01	1.86E-01
0.14	0.182358	0.1986	1.79E-01	1.87E-01	1.81E-01	1.97E-01	1.83E-01
0.14	0.144337	0.167963	1.41E-01	1.70E-01	1.43E-01	1.66E-01	1.45E-01
0.14	0.140537	0.158098	1.37E-01	1.69E-01	1.39E-01	1.57E-01	1.41E-01
0.14	0.136738	0.15008	1.33E-01	1.65E-01	1.35E-01	1.49E-01	1.37E-01
0.13	0.132939	0.143908	1.30E-01	1.61E-01	1.31E-01	1.42E-01	1.33E-01
0.13	0.12914	0.139582	1.26E-01	1.56E-01	1.28E-01	1.38E-01	1.30E-01
0.1	0.125341	0.137103	1.22E-01	1.50E-01	1.24E-01	1.36E-01	1.26E-01
0.12	0.087896	0.126567	8.45E-02	1.08E-01	8.64E-02	1.25E-01	8.79E-02
0.12	0.083981	0.110077	8.06E-02	1.06E-01	8.25E-02	1.09E-01	8.42E-02
0.12	0.080067	0.095434	7.67E-02	1.03E-01	7.86E-02	9.39E-02	8.04E-02
0.12	0.076152	0.082637	7.28E-02	9.91E-02	7.46E-02	8.11E-02	7.66E-02
0.12	0.072238	0.071686	6.89E-02	9.39E-02	7.07E-02	7.02E-02	7.28E-02
0.07	0.068323	0.062582	6.49E-02	8.76E-02	6.68E-02	6.11E-02	6.91E-02
0.09	0.031455	0.072147	2.81E-02	2.10E-02	2.99E-02	7.06E-02	3.12E-02
0.09	0.027425	0.049032	2.40E-02	1.90E-02	2.59E-02	4.75E-02	2.74E-02
0.09	0.023395	0.027763	2.00E-02	1.60E-02	2.19E-02	2.63E-02	2.37E-02
0.08	0.019366	0.008341	1.60E-02	1.19E-02	1.79E-02	6.83E-03	1.99E-02
0.08	0.015336	-0.00923	1.19E-02	6.69E-03	1.38E-02	-1.07E-02	1.61E-02
0.05	0.011306	-0.02496	7.92E-03	4.39E-04	9.80E-03	-2.65E-02	1.23E-02

0.31	0.309398	0.263859	3.06E-01	2.72E-01	3.14E-01	2.69E-01	3.12E-01
0.31	0.305829	0.267245	3.02E-01	2.71E-01	3.11E-01	2.72E-01	3.09E-01
0.3	0.302261	0.272477	2.99E-01	2.67E-01	3.07E-01	2.77E-01	3.05E-01
0.3	0.298693	0.279555	2.95E-01	2.63E-01	3.03E-01	2.84E-01	3.01E-01
0.3	0.295124	0.28848	2.92E-01	2.58E-01	3.00E-01	2.93E-01	2.97E-01
0.29	0.291556	0.299251	2.88E-01	2.52E-01	2.96E-01	3.04E-01	2.93E-01
0.28	0.281177	0.257815	2.78E-01	2.69E-01	2.86E-01	2.63E-01	2.84E-01
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0.27	0.270299	0.263572	2.67E-01	2.60E-01	2.75E-01	2.68E-01	2.73E-01
0.27	0.266673	0.269185	2.63E-01	2.55E-01	2.71E-01	2.74E-01	2.69E-01
0.25	0.263047	0.276643	2.60E-01	2.49E-01	2.68E-01	2.81E-01	2.65E-01
0.23	0.252957	0.248514	2.50E-01	2.60E-01	2.58E-01	2.53E-01	2.56E-01
0.23	0.249273	0.245274	2.46E-01	2.58E-01	2.54E-01	2.50E-01	2.52E-01
0.23	0.24559	0.24388	2.42E-01	2.55E-01	2.50E-01	2.49E-01	2.48E-01
0.21	0.241906	0.244334	2.39E-01	2.51E-01	2.47E-01	2.49E-01	2.44E-01
0.21	0.238222	0.246633	2.35E-01	2.46E-01	2.43E-01	2.51E-01	2.41E-01
0.19	0.234538	0.25078	2.31E-01	2.39E-01	2.39E-01	2.55E-01	2.37E-01
0.158	0.196516	0.220143	1.93E-01	2.23E-01	2.01E-01	2.25E-01	1.99E-01
0.159	0.192717	0.210278	1.89E-01	2.21E-01	1.97E-01	2.15E-01	1.95E-01
0.151	0.188918	0.202259	1.86E-01	2.18E-01	1.94E-01	2.07E-01	1.91E-01
0.148	0.185119	0.196088	1.82E-01	2.14E-01	1.90E-01	2.01E-01	1.88E-01
0.142	0.18132	0.191762	1.78E-01	2.08E-01	1.86E-01	1.96E-01	1.84E-01
0.141	0.177521	0.189283	1.74E-01	2.02E-01	1.82E-01	1.94E-01	1.80E-01
0.12	0.140076	0.178747	1.37E-01	1.60E-01	1.45E-01	1.83E-01	1.42E-01
0.12	0.136161	0.162257	1.33E-01	1.58E-01	1.41E-01	1.67E-01	1.38E-01
0.12	0.132247	0.147614	1.29E-01	1.55E-01	1.37E-01	1.52E-01	1.35E-01
0.12	0.128332	0.134817	1.25E-01	1.51E-01	1.33E-01	1.40E-01	1.31E-01
0.11	0.124418	0.123866	1.21E-01	1.46E-01	1.29E-01	1.29E-01	1.27E-01
0.1	0.120503	0.114762	1.17E-01	1.40E-01	1.25E-01	1.19E-01	1.23E-01
0.1	0.083635	0.124327	8.02E-02	7.32E-02	8.83E-02	1.29E-01	8.54E-02
0.1	0.079605	0.101212	7.62E-02	7.12E-02	8.43E-02	1.06E-01	8.16E-02
0.1	0.075575	0.079943	7.22E-02	6.82E-02	8.03E-02	8.46E-02	7.79E-02
0.1	0.071545	0.060521	6.82E-02	6.41E-02	7.62E-02	6.52E-02	7.41E-02
0.09	0.067516	0.042945	6.41E-02	5.89E-02	7.22E-02	4.76E-02	7.03E-02
0.08	0.063486	0.027216	6.01E-02	5.26E-02	6.82E-02	3.19E-02	6.65E-02
0.21	0.247011	0.201473	2.44E-01	2.10E-01	2.50E-01	2.04E-01	2.48E-01
0.208	0.243443	0.204858	2.40E-01	2.08E-01	2.46E-01	2.08E-01	2.44E-01
0.205	0.239874	0.21009	2.36E-01	2.05E-01	2.43E-01	2.13E-01	2.40E-01
0.207	0.236306	0.217168	2.33E-01	2.01E-01	2.39E-01	2.20E-01	2.36E-01
0.208	0.232737	0.226093	2.29E-01	1.96E-01	2.36E-01	2.29E-01	2.33E-01
0.199	0.229169	0.236864	2.26E-01	1.90E-01	2.32E-01	2.40E-01	2.29E-01
0.18	0.218791	0.195428	2.15E-01	2.07E-01	2.22E-01	1.98E-01	2.19E-01
0.181	0.215165	0.195501	2.12E-01	2.05E-01	2.18E-01	1.98E-01	2.15E-01
0.179	0.211538	0.19742	2.08E-01	2.02E-01	2.14E-01	2.00E-01	2.12E-01
0.18	0.207912	0.201186	2.05E-01	1.98E-01	2.11E-01	2.04E-01	2.08E-01
0.179	0.204286	0.206798	2.01E-01	1.93E-01	2.07E-01	2.10E-01	2.04E-01

0.163	0.20066	0.214257	1.97E-01	1.86E-01	2.03E-01	2.17E-01	2.00E-01
0.162	0.19057	0.186127	1.87E-01	1.98E-01	1.93E-01	1.89E-01	1.91E-01
0.163	0.186886	0.182887	1.84E-01	1.96E-01	1.90E-01	1.86E-01	1.87E-01
0.163	0.183203	0.181494	1.80E-01	1.93E-01	1.86E-01	1.84E-01	1.83E-01
0.162	0.179519	0.181947	1.76E-01	1.89E-01	1.82E-01	1.85E-01	1.80E-01
0.161	0.175835	0.184247	1.72E-01	1.83E-01	1.79E-01	1.87E-01	1.76E-01
0.139	0.172151	0.188393	1.69E-01	1.77E-01	1.75E-01	1.91E-01	1.72E-01
0.145	0.13413	0.157756	1.31E-01	1.60E-01	1.37E-01	1.61E-01	1.34E-01
0.146	0.13033	0.147891	1.27E-01	1.58E-01	1.33E-01	1.51E-01	1.30E-01
0.144	0.126531	0.139873	1.23E-01	1.55E-01	1.29E-01	1.43E-01	1.27E-01
0.144	0.122732	0.133701	1.19E-01	1.51E-01	1.26E-01	1.36E-01	1.23E-01
0.147	0.118933	0.129375	1.16E-01	1.46E-01	1.22E-01	1.32E-01	1.19E-01
0.121	0.115134	0.126896	1.12E-01	1.40E-01	1.18E-01	1.30E-01	1.15E-01
0.12	0.077689	0.11636	7.43E-02	9.80E-02	8.05E-02	1.19E-01	7.74E-02
0.121	0.073774	0.09987	7.04E-02	9.60E-02	7.66E-02	1.03E-01	7.37E-02
0.121	0.06986	0.085227	6.65E-02	9.30E-02	7.26E-02	8.80E-02	6.99E-02
0.12	0.065945	0.07243	6.26E-02	8.89E-02	6.87E-02	7.52E-02	6.61E-02
0.121	0.062031	0.061479	5.86E-02	8.37E-02	6.48E-02	6.43E-02	6.23E-02
0.11	0.058116	0.052375	5.47E-02	7.74E-02	6.09E-02	5.52E-02	5.86E-02
0.098	0.021248	0.06194	1.79E-02	1.08E-02	2.40E-02	6.47E-02	2.07E-02
0.09	0.017218	0.038825	1.38E-02	8.81E-03	2.00E-02	4.16E-02	1.69E-02
0.09	0.013188	0.017556	9.81E-03	5.78E-03	1.60E-02	2.03E-02	1.32E-02
0.09	0.009159	-0.00187	5.78E-03	1.67E-03	1.19E-02	9.23E-04	9.39E-03
0.08	0.005129	-0.01944	1.75E-03	-3.51E-03	7.92E-03	-1.67E-02	5.62E-03
0.07	0.001099	-0.03517	-2.28E-03	-9.77E-03	3.89E-03	-3.24E-02	1.85E-03
0.302	0.273101	0.227563	2.70E-01	2.36E-01	2.64E-01	2.19E-01	2.73E-01
0.301	0.269532	0.230948	2.66E-01	2.34E-01	2.61E-01	2.22E-01	2.69E-01
0.302	0.265964	0.23618	2.63E-01	2.31E-01	2.57E-01	2.27E-01	2.66E-01
0.3	0.262396	0.243258	2.59E-01	2.27E-01	2.54E-01	2.35E-01	2.62E-01
0.298	0.258827	0.252183	2.55E-01	2.22E-01	2.50E-01	2.43E-01	2.58E-01
0.269	0.255259	0.262954	2.52E-01	2.16E-01	2.47E-01	2.54E-01	2.54E-01
0.259	0.244881	0.221518	2.42E-01	2.33E-01	2.36E-01	2.13E-01	2.45E-01
0.261	0.241254	0.22159	2.38E-01	2.31E-01	2.33E-01	2.13E-01	2.41E-01
0.26	0.237628	0.22351	2.34E-01	2.28E-01	2.29E-01	2.15E-01	2.37E-01
0.261	0.234002	0.227275	2.31E-01	2.24E-01	2.25E-01	2.19E-01	2.34E-01
0.258	0.230376	0.232888	2.27E-01	2.19E-01	2.22E-01	2.24E-01	2.30E-01
0.237	0.22675	0.240347	2.23E-01	2.13E-01	2.18E-01	2.32E-01	2.26E-01
0.21	0.21666	0.212217	2.13E-01	2.24E-01	2.08E-01	2.04E-01	2.17E-01
0.21	0.212976	0.208977	2.10E-01	2.22E-01	2.04E-01	2.00E-01	2.13E-01
0.209	0.209293	0.207584	2.06E-01	2.19E-01	2.01E-01	1.99E-01	2.09E-01
0.208	0.205609	0.208037	2.02E-01	2.15E-01	1.97E-01	1.99E-01	2.05E-01
0.205	0.201925	0.210336	1.99E-01	2.09E-01	1.93E-01	2.02E-01	2.01E-01
0.195	0.198241	0.214483	1.95E-01	2.03E-01	1.90E-01	2.06E-01	1.98E-01
0.15	0.16022	0.183846	1.57E-01	1.86E-01	1.52E-01	1.75E-01	1.60E-01
0.151	0.15642	0.173981	1.53E-01	1.84E-01	1.48E-01	1.65E-01	1.56E-01
0.146	0.152621	0.165963	1.49E-01	1.81E-01	1.44E-01	1.57E-01	1.52E-01
0.149	0.148822	0.159791	1.45E-01	1.77E-01	1.40E-01	1.51E-01	1.48E-01

0.152	0.145023	0.155465	1.42E-01	1.72E-01	1.36E-01	1.47E-01	1.45E-01
0.141	0.141224	0.152986	1.38E-01	1.66E-01	1.33E-01	1.44E-01	1.41E-01
0.121	0.103779	0.14245	1.00E-01	1.24E-01	9.51E-02	1.34E-01	1.03E-01
0.119	0.099864	0.12596	9.65E-02	1.22E-01	9.12E-02	1.17E-01	9.93E-02
0.12	0.09595	0.111317	9.26E-02	1.19E-01	8.72E-02	1.03E-01	9.55E-02
0.12	0.092035	0.09852	8.87E-02	1.15E-01	8.33E-02	8.98E-02	9.18E-02
0.119	0.088121	0.087569	8.47E-02	1.10E-01	7.94E-02	7.89E-02	8.80E-02
0.112	0.084206	0.078465	8.08E-02	1.04E-01	7.55E-02	6.98E-02	8.42E-02
0.09	0.047338	0.08803	4.40E-02	3.69E-02	3.86E-02	7.93E-02	4.63E-02
0.09	0.043308	0.064915	3.99E-02	3.49E-02	3.46E-02	5.62E-02	4.26E-02
0.09	0.039278	0.043646	3.59E-02	3.19E-02	3.06E-02	3.49E-02	3.88E-02
0.09	0.035249	0.024224	3.19E-02	2.78E-02	2.65E-02	1.55E-02	3.50E-02
0.08	0.031219	0.006648	2.78E-02	2.26E-02	2.25E-02	-2.06E-03	3.13E-02
0.07	0.027189	-0.00908	2.38E-02	1.63E-02	1.85E-02	-1.78E-02	2.75E-02
0.396	0.325281	0.279742	3.22E-01	2.88E-01	3.23E-01	2.77E-01	3.25E-01
0.395	0.321712	0.283128	3.18E-01	2.86E-01	3.19E-01	2.81E-01	3.21E-01
0.395	0.318144	0.28836	3.15E-01	2.83E-01	3.16E-01	2.86E-01	3.17E-01
0.398	0.314575	0.295438	3.11E-01	2.79E-01	3.12E-01	2.93E-01	3.13E-01
0.396	0.311007	0.304363	3.08E-01	2.74E-01	3.08E-01	3.02E-01	3.09E-01
0.365	0.307439	0.315134	3.04E-01	2.68E-01	3.05E-01	3.13E-01	3.06E-01
0.33	0.29706	0.273698	2.94E-01	2.85E-01	2.95E-01	2.71E-01	2.96E-01
0.33	0.293434	0.27377	2.90E-01	2.83E-01	2.91E-01	2.71E-01	2.92E-01
0.322	0.289808	0.27569	2.86E-01	2.80E-01	2.87E-01	2.73E-01	2.89E-01
0.323	0.286182	0.279455	2.83E-01	2.76E-01	2.84E-01	2.77E-01	2.85E-01
0.32	0.282556	0.285068	2.79E-01	2.71E-01	2.80E-01	2.83E-01	2.81E-01
0.295	0.27893	0.292526	2.76E-01	2.65E-01	2.76E-01	2.90E-01	2.77E-01
0.27	0.26884	0.264397	2.65E-01	2.76E-01	2.66E-01	2.62E-01	2.68E-01
0.269	0.265156	0.261157	2.62E-01	2.74E-01	2.63E-01	2.59E-01	2.64E-01
0.27	0.261472	0.259763	2.58E-01	2.71E-01	2.59E-01	2.57E-01	2.60E-01
0.269	0.257789	0.260217	2.54E-01	2.67E-01	2.55E-01	2.58E-01	2.57E-01
0.27	0.254105	0.262516	2.51E-01	2.62E-01	2.52E-01	2.60E-01	2.53E-01
0.248	0.250421	0.266663	2.47E-01	2.55E-01	2.48E-01	2.64E-01	2.49E-01
0.156	0.212399	0.236026	2.09E-01	2.39E-01	2.10E-01	2.34E-01	2.11E-01
0.155	0.2086	0.226161	2.05E-01	2.37E-01	2.06E-01	2.24E-01	2.07E-01
0.154	0.204801	0.218142	2.01E-01	2.34E-01	2.02E-01	2.16E-01	2.04E-01
0.155	0.201002	0.21197	1.98E-01	2.29E-01	1.98E-01	2.09E-01	2.00E-01
0.159	0.197203	0.207645	1.94E-01	2.24E-01	1.95E-01	2.05E-01	1.96E-01
0.143	0.193404	0.205166	1.90E-01	2.18E-01	1.91E-01	2.03E-01	1.92E-01
0.122	0.155959	0.19463	1.53E-01	1.76E-01	1.53E-01	1.92E-01	1.54E-01
0.122	0.152044	0.17814	1.49E-01	1.74E-01	1.50E-01	1.76E-01	1.51E-01
0.123	0.14813	0.163497	1.45E-01	1.71E-01	1.46E-01	1.61E-01	1.47E-01
0.125	0.144215	0.1507	1.41E-01	1.67E-01	1.42E-01	1.48E-01	1.43E-01
0.125	0.140301	0.139749	1.37E-01	1.62E-01	1.38E-01	1.37E-01	1.39E-01
0.1	0.136386	0.130645	1.33E-01	1.56E-01	1.34E-01	1.28E-01	1.36E-01
0.08	0.099518	0.14021	9.61E-02	8.90E-02	9.70E-02	1.38E-01	9.76E-02
0.08	0.095488	0.117095	9.21E-02	8.71E-02	9.30E-02	1.15E-01	9.39E-02
0.08	0.091458	0.095826	8.81E-02	8.40E-02	8.89E-02	9.33E-02	9.01E-02
0.08	0.087428	0.076404	8.41E-02	7.99E-02	8.49E-02	7.39E-02	8.63E-02

0.08	0.083398	0.058828	8.00E-02	7.48E-02	8.09E-02	5.63E-02	8.26E-02
0.07	0.079369	0.043099	7.60E-02	6.85E-02	7.69E-02	4.06E-02	7.88E-02
0.394	0.319808	0.27427	3.16E-01	2.83E-01	3.24E-01	2.78E-01	3.24E-01
0.394	0.316239	0.277655	3.13E-01	2.81E-01	3.20E-01	2.82E-01	3.20E-01
0.391	0.312671	0.282887	3.09E-01	2.78E-01	3.17E-01	2.87E-01	3.16E-01
0.389	0.309103	0.289965	3.06E-01	2.74E-01	3.13E-01	2.94E-01	3.12E-01
0.388	0.305534	0.29889	3.02E-01	2.69E-01	3.10E-01	3.03E-01	3.09E-01
0.367	0.301966	0.309661	2.99E-01	2.62E-01	3.06E-01	3.14E-01	3.05E-01
0.307	0.291588	0.268225	2.88E-01	2.80E-01	2.96E-01	2.72E-01	2.95E-01
0.305	0.287961	0.268297	2.85E-01	2.78E-01	2.92E-01	2.72E-01	2.92E-01
0.303	0.284335	0.270217	2.81E-01	2.75E-01	2.88E-01	2.74E-01	2.88E-01
0.301	0.280709	0.273982	2.77E-01	2.71E-01	2.85E-01	2.78E-01	2.84E-01
0.3	0.277083	0.279595	2.74E-01	2.65E-01	2.81E-01	2.84E-01	2.80E-01
0.269	0.273457	0.287054	2.70E-01	2.59E-01	2.77E-01	2.91E-01	2.77E-01
0.249	0.263367	0.258924	2.60E-01	2.70E-01	2.67E-01	2.63E-01	2.67E-01
0.244	0.259683	0.255684	2.56E-01	2.68E-01	2.64E-01	2.60E-01	2.63E-01
0.247	0.256	0.254291	2.53E-01	2.65E-01	2.60E-01	2.58E-01	2.59E-01
0.242	0.252316	0.254744	2.49E-01	2.61E-01	2.56E-01	2.59E-01	2.56E-01
0.241	0.248632	0.257043	2.45E-01	2.56E-01	2.53E-01	2.61E-01	2.52E-01
0.227	0.244948	0.26119	2.42E-01	2.50E-01	2.49E-01	2.65E-01	2.48E-01
0.175	0.206927	0.230553	2.04E-01	2.33E-01	2.11E-01	2.35E-01	2.10E-01
0.174	0.203127	0.220688	2.00E-01	2.31E-01	2.07E-01	2.25E-01	2.06E-01
0.174	0.199328	0.21267	1.96E-01	2.28E-01	2.03E-01	2.17E-01	2.03E-01
0.173	0.195529	0.206498	1.92E-01	2.24E-01	2.00E-01	2.11E-01	1.99E-01
0.171	0.19173	0.202172	1.88E-01	2.19E-01	1.96E-01	2.06E-01	1.95E-01
0.154	0.187931	0.199693	1.85E-01	2.13E-01	1.92E-01	2.04E-01	1.91E-01
0.148	0.150486	0.189157	1.47E-01	1.71E-01	1.54E-01	1.93E-01	1.54E-01
0.147	0.146571	0.172667	1.43E-01	1.69E-01	1.51E-01	1.77E-01	1.50E-01
0.143	0.142657	0.158024	1.39E-01	1.66E-01	1.47E-01	1.62E-01	1.46E-01
0.141	0.138742	0.145227	1.35E-01	1.62E-01	1.43E-01	1.49E-01	1.42E-01
0.138	0.134828	0.134276	1.31E-01	1.56E-01	1.39E-01	1.38E-01	1.38E-01
0.135	0.130913	0.125172	1.28E-01	1.50E-01	1.35E-01	1.29E-01	1.35E-01
0.136	0.094045	0.134737	9.07E-02	8.36E-02	9.81E-02	1.39E-01	9.68E-02
0.135	0.090015	0.111622	8.67E-02	8.16E-02	9.40E-02	1.16E-01	9.30E-02
0.134	0.085985	0.090353	8.26E-02	7.86E-02	9.00E-02	9.44E-02	8.93E-02
0.134	0.081955	0.070931	7.86E-02	7.45E-02	8.60E-02	7.49E-02	8.55E-02
0.133	0.077926	0.053355	7.46E-02	6.93E-02	8.19E-02	5.74E-02	8.17E-02
0.121	0.073896	0.037626	7.05E-02	6.30E-02	7.79E-02	4.16E-02	7.80E-02
0.431	0.345898	0.30036	3.43E-01	3.09E-01	3.38E-01	2.93E-01	3.43E-01
0.43	0.342329	0.303745	3.39E-01	3.07E-01	3.35E-01	2.96E-01	3.39E-01
0.43	0.338761	0.308977	3.35E-01	3.04E-01	3.31E-01	3.01E-01	3.35E-01
0.432	0.335193	0.316055	3.32E-01	3.00E-01	3.28E-01	3.09E-01	3.31E-01
0.429	0.331624	0.32498	3.28E-01	2.95E-01	3.24E-01	3.17E-01	3.28E-01
0.412	0.328056	0.335751	3.25E-01	2.88E-01	3.21E-01	3.28E-01	3.24E-01
0.345	0.317677	0.294315	3.14E-01	3.06E-01	3.10E-01	2.87E-01	3.14E-01
0.343	0.314051	0.294387	3.11E-01	3.04E-01	3.07E-01	2.87E-01	3.11E-01
0.34	0.310425	0.296307	3.07E-01	3.01E-01	3.03E-01	2.89E-01	3.07E-01
0.341	0.306799	0.300072	3.03E-01	2.97E-01	2.99E-01	2.93E-01	3.03E-01

0.343	0.303173	0.305685	3.00E-01	2.92E-01	2.96E-01	2.98E-01	2.99E-01
0.331	0.299547	0.313143	2.96E-01	2.85E-01	2.92E-01	3.06E-01	2.95E-01
0.26	0.289457	0.285014	2.86E-01	2.97E-01	2.82E-01	2.78E-01	2.86E-01
0.262	0.285773	0.281774	2.82E-01	2.95E-01	2.78E-01	2.74E-01	2.82E-01
0.261	0.28209	0.28038	2.79E-01	2.92E-01	2.75E-01	2.73E-01	2.78E-01
0.261	0.278406	0.280834	2.75E-01	2.87E-01	2.71E-01	2.73E-01	2.75E-01
0.265	0.274722	0.283133	2.71E-01	2.82E-01	2.67E-01	2.76E-01	2.71E-01
0.227	0.271038	0.28728	2.68E-01	2.76E-01	2.64E-01	2.80E-01	2.67E-01
0.174	0.233016	0.256643	2.30E-01	2.59E-01	2.26E-01	2.49E-01	2.29E-01
0.173	0.229217	0.246778	2.26E-01	2.57E-01	2.22E-01	2.39E-01	2.25E-01
0.172	0.225418	0.238759	2.22E-01	2.54E-01	2.18E-01	2.31E-01	2.22E-01
0.171	0.221619	0.232588	2.18E-01	2.50E-01	2.14E-01	2.25E-01	2.18E-01
0.17	0.21782	0.228262	2.14E-01	2.45E-01	2.10E-01	2.21E-01	2.14E-01
0.152	0.214021	0.225783	2.11E-01	2.39E-01	2.07E-01	2.18E-01	2.10E-01
0.125	0.176576	0.215247	1.73E-01	1.97E-01	1.69E-01	2.08E-01	1.73E-01
0.125	0.172661	0.198757	1.69E-01	1.95E-01	1.65E-01	1.91E-01	1.69E-01
0.126	0.168747	0.184114	1.65E-01	1.92E-01	1.61E-01	1.77E-01	1.65E-01
0.126	0.164832	0.171317	1.61E-01	1.88E-01	1.57E-01	1.64E-01	1.61E-01
0.124	0.160918	0.160366	1.58E-01	1.83E-01	1.53E-01	1.53E-01	1.57E-01
0.115	0.157003	0.151262	1.54E-01	1.76E-01	1.50E-01	1.44E-01	1.54E-01
0.1	0.120135	0.160827	1.17E-01	1.10E-01	1.13E-01	1.53E-01	1.16E-01
0.1	0.116105	0.137712	1.13E-01	1.08E-01	1.09E-01	1.30E-01	1.12E-01
0.1	0.112075	0.116443	1.09E-01	1.05E-01	1.05E-01	1.09E-01	1.08E-01
0.1	0.108045	0.097021	1.05E-01	1.01E-01	1.01E-01	8.95E-02	1.04E-01
0.1	0.104016	0.079445	1.01E-01	9.54E-02	9.65E-02	7.20E-02	1.01E-01
0.09	0.099986	0.063716	9.66E-02	8.91E-02	9.25E-02	5.62E-02	9.69E-02
0.15	0.222808	0.17727	2.26E-01	1.86E-01	2.33E-01	1.87E-01	2.23E-01
0.15	0.21924	0.180655	2.22E-01	1.84E-01	2.29E-01	1.91E-01	2.19E-01
0.14	0.215671	0.185887	2.19E-01	1.81E-01	2.26E-01	1.96E-01	2.15E-01
0.14	0.212103	0.192965	2.15E-01	1.77E-01	2.22E-01	2.03E-01	2.11E-01
0.14	0.208535	0.20189	2.12E-01	1.72E-01	2.19E-01	2.12E-01	2.08E-01
0.13	0.204966	0.212662	2.08E-01	1.65E-01	2.15E-01	2.23E-01	2.04E-01
0.14	0.194588	0.171225	1.98E-01	1.83E-01	2.05E-01	1.81E-01	1.94E-01
0.14	0.190962	0.171298	1.94E-01	1.81E-01	2.01E-01	1.81E-01	1.91E-01
0.13	0.187336	0.173217	1.91E-01	1.78E-01	1.97E-01	1.83E-01	1.87E-01
0.13	0.18371	0.176983	1.87E-01	1.74E-01	1.94E-01	1.87E-01	1.83E-01
0.13	0.180083	0.182595	1.83E-01	1.68E-01	1.90E-01	1.93E-01	1.79E-01
0.12	0.176457	0.190054	1.80E-01	1.62E-01	1.86E-01	2.00E-01	1.75E-01
0.12	0.166368	0.161924	1.70E-01	1.73E-01	1.76E-01	1.72E-01	1.66E-01
0.12	0.162684	0.158684	1.66E-01	1.71E-01	1.73E-01	1.69E-01	1.62E-01
0.11	0.159	0.157291	1.62E-01	1.68E-01	1.69E-01	1.67E-01	1.58E-01
0.11	0.155316	0.157744	1.59E-01	1.64E-01	1.65E-01	1.68E-01	1.55E-01
0.1	0.151632	0.160044	1.55E-01	1.59E-01	1.62E-01	1.70E-01	1.51E-01
0.1	0.147949	0.16419	1.51E-01	1.53E-01	1.58E-01	1.74E-01	1.47E-01
0.09	0.109927	0.133553	1.13E-01	1.36E-01	1.20E-01	1.44E-01	1.09E-01
0.09	0.106128	0.123688	1.09E-01	1.34E-01	1.16E-01	1.34E-01	1.05E-01
0.08	0.102329	0.11567	1.06E-01	1.31E-01	1.12E-01	1.26E-01	1.02E-01
0.08	0.098529	0.109498	1.02E-01	1.27E-01	1.09E-01	1.19E-01	9.79E-02

0.07	0.09473	0.105173	9.79E-02	1.22E-01	1.05E-01	1.15E-01	9.42E-02
0.05	0.090931	0.102694	9.41E-02	1.16E-01	1.01E-01	1.13E-01	9.04E-02
0.07	0.053486	0.092158	5.67E-02	7.38E-02	6.35E-02	1.02E-01	5.25E-02
0.07	0.049572	0.075668	5.28E-02	7.18E-02	5.96E-02	8.57E-02	4.87E-02
0.06	0.045657	0.061024	4.89E-02	6.88E-02	5.56E-02	7.10E-02	4.50E-02
0.06	0.041743	0.048227	4.49E-02	6.47E-02	5.17E-02	5.82E-02	4.12E-02
0.06	0.037828	0.037277	4.10E-02	5.95E-02	4.78E-02	4.73E-02	3.74E-02
0.04	0.033914	0.028173	3.71E-02	5.32E-02	4.39E-02	3.82E-02	3.37E-02
0.04	-0.00295	0.037737	2.41E-04	-1.34E-02	7.03E-03	4.77E-02	-4.22E-03
0.04	-0.00698	0.014622	-3.79E-03	-1.54E-02	3.00E-03	2.46E-02	-7.99E-03
0.04	-0.01101	-0.00665	-7.82E-03	-1.84E-02	-1.03E-03	3.34E-03	-1.18E-02
0.04	-0.01504	-0.02607	-1.18E-02	-2.25E-02	-5.06E-03	-1.61E-02	-1.55E-02
0.03	-0.01907	-0.04364	-1.59E-02	-2.77E-02	-9.09E-03	-3.37E-02	-1.93E-02
0.03	-0.0231	-0.05937	-1.99E-02	-3.40E-02	-1.31E-02	-4.94E-02	-2.31E-02
0.211	0.248898	0.20336	2.52E-01	2.12E-01	2.47E-01	2.02E-01	2.50E-01
0.21	0.24533	0.206745	2.49E-01	2.10E-01	2.44E-01	2.05E-01	2.46E-01
0.21	0.241761	0.211977	2.45E-01	2.07E-01	2.40E-01	2.10E-01	2.42E-01
0.2	0.238193	0.219055	2.41E-01	2.03E-01	2.37E-01	2.18E-01	2.38E-01
0.19	0.234624	0.22798	2.38E-01	1.98E-01	2.33E-01	2.26E-01	2.35E-01
0.19	0.231056	0.238751	2.34E-01	1.91E-01	2.30E-01	2.37E-01	2.31E-01
0.18	0.220678	0.197315	2.24E-01	2.09E-01	2.19E-01	1.96E-01	2.21E-01
0.179	0.217052	0.197388	2.20E-01	2.07E-01	2.16E-01	1.96E-01	2.18E-01
0.178	0.213426	0.199307	2.17E-01	2.04E-01	2.12E-01	1.98E-01	2.14E-01
0.175	0.2098	0.203073	2.13E-01	2.00E-01	2.08E-01	2.02E-01	2.10E-01
0.175	0.206173	0.208685	2.09E-01	1.95E-01	2.05E-01	2.07E-01	2.06E-01
0.169	0.202547	0.216144	2.06E-01	1.88E-01	2.01E-01	2.15E-01	2.03E-01
0.152	0.192457	0.188014	1.96E-01	2.00E-01	1.91E-01	1.87E-01	1.93E-01
0.153	0.188774	0.184774	1.92E-01	1.98E-01	1.87E-01	1.83E-01	1.89E-01
0.152	0.18509	0.183381	1.88E-01	1.95E-01	1.84E-01	1.82E-01	1.86E-01
0.151	0.181406	0.183834	1.85E-01	1.90E-01	1.80E-01	1.82E-01	1.82E-01
0.151	0.177722	0.186134	1.81E-01	1.85E-01	1.76E-01	1.85E-01	1.78E-01
0.148	0.174039	0.19028	1.77E-01	1.79E-01	1.73E-01	1.89E-01	1.74E-01
0.137	0.136017	0.159643	1.39E-01	1.62E-01	1.35E-01	1.58E-01	1.36E-01
0.136	0.132218	0.149778	1.35E-01	1.60E-01	1.31E-01	1.48E-01	1.33E-01
0.139	0.128419	0.14176	1.32E-01	1.57E-01	1.27E-01	1.40E-01	1.29E-01
0.137	0.124619	0.135588	1.28E-01	1.53E-01	1.23E-01	1.34E-01	1.25E-01
0.135	0.12082	0.131263	1.24E-01	1.48E-01	1.19E-01	1.30E-01	1.21E-01
0.123	0.117021	0.128784	1.20E-01	1.42E-01	1.16E-01	1.27E-01	1.17E-01
0.121	0.079576	0.118248	8.28E-02	9.99E-02	7.81E-02	1.17E-01	7.96E-02
0.119	0.075662	0.101758	7.89E-02	9.79E-02	7.42E-02	1.00E-01	7.58E-02
0.119	0.071747	0.087114	7.49E-02	9.49E-02	7.02E-02	8.56E-02	7.21E-02
0.119	0.067833	0.074317	7.10E-02	9.08E-02	6.63E-02	7.28E-02	6.83E-02
0.118	0.063918	0.063366	6.71E-02	8.56E-02	6.24E-02	6.19E-02	6.45E-02
0.09	0.060004	0.054262	6.32E-02	7.93E-02	5.85E-02	5.28E-02	6.08E-02
0.095	0.023135	0.063827	2.63E-02	1.27E-02	2.16E-02	6.23E-02	2.29E-02
0.094	0.019106	0.040712	2.23E-02	1.07E-02	1.76E-02	3.92E-02	1.91E-02
0.094	0.015076	0.019443	1.83E-02	7.66E-03	1.36E-02	1.79E-02	1.53E-02

0.093	0.011046	2.12E-05	1.42E-02	3.55E-03	9.54E-03	-1.49E-03	1.16E-02
0.088	0.007016	-0.01755	1.02E-02	-1.63E-03	5.51E-03	-1.91E-02	7.80E-03
0.05	0.002986	-0.03328	6.18E-03	-7.88E-03	1.48E-03	-3.48E-02	4.03E-03
0.311	0.301078	0.25554	3.04E-01	2.64E-01	3.06E-01	2.60E-01	3.04E-01
0.312	0.29751	0.258925	3.01E-01	2.62E-01	3.02E-01	2.64E-01	3.00E-01
0.3	0.293941	0.264157	2.97E-01	2.59E-01	2.99E-01	2.69E-01	2.96E-01
0.31	0.290373	0.271235	2.94E-01	2.55E-01	2.95E-01	2.76E-01	2.93E-01
0.308	0.286804	0.28016	2.90E-01	2.50E-01	2.91E-01	2.85E-01	2.89E-01
0.303	0.283236	0.290931	2.86E-01	2.44E-01	2.88E-01	2.96E-01	2.85E-01
0.284	0.272858	0.249495	2.76E-01	2.61E-01	2.78E-01	2.54E-01	2.76E-01
0.282	0.269232	0.249568	2.72E-01	2.59E-01	2.74E-01	2.54E-01	2.72E-01
0.278	0.265605	0.251487	2.69E-01	2.56E-01	2.70E-01	2.56E-01	2.68E-01
0.269	0.261979	0.255253	2.65E-01	2.52E-01	2.67E-01	2.60E-01	2.64E-01
0.266	0.258353	0.260865	2.62E-01	2.47E-01	2.63E-01	2.66E-01	2.61E-01
0.252	0.254727	0.268324	2.58E-01	2.41E-01	2.59E-01	2.73E-01	2.57E-01
0.213	0.244637	0.240194	2.48E-01	2.52E-01	2.49E-01	2.45E-01	2.47E-01
0.212	0.240954	0.236954	2.44E-01	2.50E-01	2.46E-01	2.42E-01	2.43E-01
0.214	0.23727	0.235561	2.40E-01	2.47E-01	2.42E-01	2.40E-01	2.40E-01
0.208	0.233586	0.236014	2.37E-01	2.43E-01	2.38E-01	2.41E-01	2.36E-01
0.206	0.229902	0.238314	2.33E-01	2.37E-01	2.35E-01	2.43E-01	2.32E-01
0.204	0.226218	0.24246	2.29E-01	2.31E-01	2.31E-01	2.47E-01	2.28E-01
0.153	0.188197	0.211823	1.91E-01	2.14E-01	1.93E-01	2.17E-01	1.91E-01
0.158	0.184398	0.201958	1.88E-01	2.12E-01	1.89E-01	2.07E-01	1.87E-01
0.157	0.180598	0.19394	1.84E-01	2.09E-01	1.85E-01	1.99E-01	1.83E-01
0.152	0.176799	0.187768	1.80E-01	2.05E-01	1.81E-01	1.92E-01	1.79E-01
0.149	0.173	0.183442	1.76E-01	2.00E-01	1.78E-01	1.88E-01	1.75E-01
0.148	0.169201	0.180964	1.72E-01	1.94E-01	1.74E-01	1.86E-01	1.72E-01
0.119	0.131756	0.170427	1.35E-01	1.52E-01	1.36E-01	1.75E-01	1.34E-01
0.118	0.127841	0.153937	1.31E-01	1.50E-01	1.33E-01	1.59E-01	1.30E-01
0.118	0.123927	0.139294	1.27E-01	1.47E-01	1.29E-01	1.44E-01	1.26E-01
0.118	0.120012	0.126497	1.23E-01	1.43E-01	1.25E-01	1.31E-01	1.22E-01
0.117	0.116098	0.115546	1.19E-01	1.38E-01	1.21E-01	1.20E-01	1.19E-01
0.1	0.112183	0.106442	1.15E-01	1.32E-01	1.17E-01	1.11E-01	1.15E-01
0.1	0.075315	0.116007	7.85E-02	6.48E-02	8.00E-02	1.21E-01	7.71E-02
0.1	0.071285	0.092892	7.45E-02	6.29E-02	7.60E-02	9.76E-02	7.33E-02
0.09	0.067256	0.071623	7.05E-02	5.98E-02	7.19E-02	7.63E-02	6.95E-02
0.09	0.063226	0.052201	6.64E-02	5.57E-02	6.79E-02	5.69E-02	6.58E-02
0.09	0.059196	0.034625	6.24E-02	5.06E-02	6.39E-02	3.93E-02	6.20E-02
0.08	0.055166	0.018896	5.84E-02	4.43E-02	5.99E-02	2.36E-02	5.82E-02
0.211	0.238691	0.193153	2.42E-01	2.02E-01	2.41E-01	1.96E-01	2.39E-01
0.211	0.235123	0.196538	2.38E-01	2.00E-01	2.38E-01	1.99E-01	2.36E-01
0.209	0.231554	0.20177	2.35E-01	1.97E-01	2.34E-01	2.05E-01	2.32E-01
0.208	0.227986	0.208848	2.31E-01	1.93E-01	2.31E-01	2.12E-01	2.28E-01
0.205	0.224418	0.217773	2.28E-01	1.87E-01	2.27E-01	2.21E-01	2.24E-01
0.2	0.220849	0.228545	2.24E-01	1.81E-01	2.24E-01	2.31E-01	2.20E-01
0.194	0.210471	0.187108	2.14E-01	1.99E-01	2.13E-01	1.90E-01	2.11E-01
0.194	0.206845	0.187181	2.10E-01	1.97E-01	2.10E-01	1.90E-01	2.07E-01
0.192	0.203219	0.1891	2.06E-01	1.94E-01	2.06E-01	1.92E-01	2.03E-01

0.192	0.199593	0.192866	2.03E-01	1.90E-01	2.02E-01	1.96E-01	2.00E-01
0.184	0.195966	0.198478	1.99E-01	1.84E-01	1.99E-01	2.01E-01	1.96E-01
0.178	0.19234	0.205937	1.96E-01	1.78E-01	1.95E-01	2.09E-01	1.92E-01
0.181	0.182251	0.177807	1.85E-01	1.89E-01	1.85E-01	1.81E-01	1.83E-01
0.182	0.178567	0.174567	1.82E-01	1.87E-01	1.81E-01	1.77E-01	1.79E-01
0.181	0.174883	0.173174	1.78E-01	1.84E-01	1.78E-01	1.76E-01	1.75E-01
0.182	0.171199	0.173627	1.74E-01	1.80E-01	1.74E-01	1.76E-01	1.71E-01
0.179	0.167515	0.175927	1.71E-01	1.75E-01	1.70E-01	1.79E-01	1.67E-01
0.163	0.163832	0.180073	1.67E-01	1.69E-01	1.67E-01	1.83E-01	1.64E-01
0.143	0.12581	0.149436	1.29E-01	1.52E-01	1.29E-01	1.52E-01	1.26E-01
0.142	0.122011	0.139571	1.25E-01	1.50E-01	1.25E-01	1.42E-01	1.22E-01
0.142	0.118212	0.131553	1.21E-01	1.47E-01	1.21E-01	1.34E-01	1.18E-01
0.142	0.114412	0.125381	1.18E-01	1.43E-01	1.17E-01	1.28E-01	1.15E-01
0.141	0.110613	0.121056	1.14E-01	1.38E-01	1.13E-01	1.24E-01	1.11E-01
0.119	0.106814	0.118577	1.10E-01	1.31E-01	1.10E-01	1.21E-01	1.07E-01
0.118	0.069369	0.108041	7.26E-02	8.97E-02	7.22E-02	1.11E-01	6.91E-02
0.117	0.065455	0.091551	6.87E-02	8.77E-02	6.82E-02	9.43E-02	6.53E-02
0.117	0.06154	0.076907	6.47E-02	8.47E-02	6.43E-02	7.97E-02	6.16E-02
0.117	0.057626	0.06411	6.08E-02	8.06E-02	6.04E-02	6.69E-02	5.78E-02
0.117	0.053711	0.053159	5.69E-02	7.54E-02	5.65E-02	5.60E-02	5.40E-02
0.11	0.049797	0.044056	5.30E-02	6.91E-02	5.26E-02	4.68E-02	5.03E-02
0.09	0.012928	0.05362	1.61E-02	2.46E-03	1.57E-02	5.64E-02	1.24E-02
0.089	0.008899	0.030505	1.21E-02	4.95E-04	1.17E-02	3.33E-02	8.61E-03
0.088	0.004869	0.009236	8.07E-03	-2.54E-03	7.66E-03	1.20E-02	4.84E-03
0.088	0.000839	-0.01019	4.04E-03	-6.65E-03	3.63E-03	-7.39E-03	1.07E-03
0.088	-0.00319	-0.02776	1.16E-05	-1.18E-02	-3.99E-04	-2.50E-02	-2.70E-03
0.068	-0.00722	-0.04349	-4.02E-03	-1.81E-02	-4.43E-03	-4.07E-02	-6.47E-03
0.303	0.264781	0.219243	2.68E-01	2.28E-01	2.56E-01	2.11E-01	2.65E-01
0.302	0.261213	0.222628	2.64E-01	2.26E-01	2.53E-01	2.14E-01	2.61E-01
0.303	0.257644	0.22786	2.61E-01	2.23E-01	2.49E-01	2.19E-01	2.57E-01
0.301	0.254076	0.234938	2.57E-01	2.19E-01	2.45E-01	2.26E-01	2.54E-01
0.301	0.250507	0.243863	2.54E-01	2.14E-01	2.42E-01	2.35E-01	2.50E-01
0.267	0.246939	0.254634	2.50E-01	2.07E-01	2.38E-01	2.46E-01	2.46E-01
0.258	0.236561	0.213198	2.40E-01	2.25E-01	2.28E-01	2.04E-01	2.37E-01
0.257	0.232935	0.213271	2.36E-01	2.23E-01	2.24E-01	2.05E-01	2.33E-01
0.257	0.229309	0.21519	2.33E-01	2.20E-01	2.21E-01	2.06E-01	2.29E-01
0.256	0.225682	0.218956	2.29E-01	2.16E-01	2.17E-01	2.10E-01	2.25E-01
0.256	0.222056	0.224568	2.25E-01	2.10E-01	2.13E-01	2.16E-01	2.22E-01
0.235	0.21843	0.232027	2.22E-01	2.04E-01	2.10E-01	2.23E-01	2.18E-01
0.201	0.20834	0.203897	2.12E-01	2.15E-01	2.00E-01	1.95E-01	2.08E-01
0.199	0.204657	0.200657	2.08E-01	2.13E-01	1.96E-01	1.92E-01	2.04E-01
0.197	0.200973	0.199264	2.04E-01	2.10E-01	1.92E-01	1.91E-01	2.01E-01
0.195	0.197289	0.199717	2.00E-01	2.06E-01	1.89E-01	1.91E-01	1.97E-01
0.193	0.193605	0.202017	1.97E-01	2.01E-01	1.85E-01	1.93E-01	1.93E-01
0.175	0.189922	0.206163	1.93E-01	1.95E-01	1.81E-01	1.97E-01	1.89E-01
0.149	0.1519	0.175526	1.55E-01	1.78E-01	1.43E-01	1.67E-01	1.51E-01
0.147	0.148101	0.165661	1.51E-01	1.76E-01	1.39E-01	1.57E-01	1.48E-01
0.145	0.144301	0.157643	1.48E-01	1.73E-01	1.36E-01	1.49E-01	1.44E-01

0.144	0.140502	0.151471	1.44E-01	1.69E-01	1.32E-01	1.43E-01	1.40E-01
0.142	0.136703	0.147145	1.40E-01	1.64E-01	1.28E-01	1.38E-01	1.36E-01
0.139	0.132904	0.144667	1.36E-01	1.58E-01	1.24E-01	1.36E-01	1.33E-01
0.119	0.095459	0.134131	9.87E-02	1.16E-01	8.68E-02	1.25E-01	9.48E-02
0.119	0.091545	0.117641	9.47E-02	1.14E-01	8.28E-02	1.09E-01	9.10E-02
0.119	0.08763	0.102997	9.08E-02	1.11E-01	7.89E-02	9.43E-02	8.72E-02
0.118	0.083716	0.0902	8.69E-02	1.07E-01	7.50E-02	8.15E-02	8.34E-02
0.118	0.079801	0.079249	8.30E-02	1.01E-01	7.11E-02	7.05E-02	7.97E-02
0.111	0.075887	0.070145	7.91E-02	9.52E-02	6.72E-02	6.14E-02	7.59E-02
0.095	0.039018	0.07971	4.22E-02	2.86E-02	3.03E-02	7.10E-02	3.80E-02
0.085	0.034989	0.056595	3.82E-02	2.66E-02	2.63E-02	4.79E-02	3.43E-02
0.085	0.030959	0.035326	3.42E-02	2.35E-02	2.23E-02	2.66E-02	3.05E-02
0.085	0.026929	0.015904	3.01E-02	1.94E-02	1.82E-02	7.20E-03	2.67E-02
0.084	0.022899	-0.00167	2.61E-02	1.43E-02	1.42E-02	-1.04E-02	2.29E-02
0.075	0.018869	-0.0174	2.21E-02	8.00E-03	1.02E-02	-2.61E-02	1.92E-02
0.406	0.316961	0.271423	3.20E-01	2.80E-01	3.14E-01	2.69E-01	3.16E-01
0.405	0.313393	0.274808	3.17E-01	2.78E-01	3.11E-01	2.72E-01	3.12E-01
0.405	0.309824	0.28004	3.13E-01	2.75E-01	3.07E-01	2.78E-01	3.09E-01
0.399	0.306256	0.287118	3.09E-01	2.71E-01	3.04E-01	2.85E-01	3.05E-01
0.399	0.302687	0.296043	3.06E-01	2.66E-01	3.00E-01	2.94E-01	3.01E-01
0.365	0.299119	0.306814	3.02E-01	2.60E-01	2.97E-01	3.04E-01	2.97E-01
0.31	0.288741	0.265378	2.92E-01	2.77E-01	2.86E-01	2.63E-01	2.88E-01
0.305	0.285115	0.265451	2.88E-01	2.75E-01	2.83E-01	2.63E-01	2.84E-01
0.306	0.281488	0.26737	2.85E-01	2.72E-01	2.79E-01	2.65E-01	2.80E-01
0.311	0.277862	0.271136	2.81E-01	2.68E-01	2.75E-01	2.69E-01	2.77E-01
0.313	0.274236	0.276748	2.77E-01	2.63E-01	2.72E-01	2.74E-01	2.73E-01
0.285	0.27061	0.284207	2.74E-01	2.56E-01	2.68E-01	2.82E-01	2.69E-01
0.265	0.26052	0.256077	2.64E-01	2.68E-01	2.58E-01	2.54E-01	2.60E-01
0.265	0.256837	0.252837	2.60E-01	2.66E-01	2.54E-01	2.50E-01	2.56E-01
0.263	0.253153	0.251444	2.56E-01	2.63E-01	2.51E-01	2.49E-01	2.52E-01
0.265	0.249469	0.251897	2.53E-01	2.58E-01	2.47E-01	2.49E-01	2.48E-01
0.261	0.245785	0.254197	2.49E-01	2.53E-01	2.43E-01	2.52E-01	2.44E-01
0.242	0.242101	0.258343	2.45E-01	2.47E-01	2.40E-01	2.56E-01	2.41E-01
0.152	0.20408	0.227706	2.07E-01	2.30E-01	2.02E-01	2.25E-01	2.03E-01
0.151	0.20028	0.217841	2.03E-01	2.28E-01	1.98E-01	2.15E-01	1.99E-01
0.154	0.196481	0.209823	2.00E-01	2.25E-01	1.94E-01	2.07E-01	1.95E-01
0.151	0.192682	0.203651	1.96E-01	2.21E-01	1.90E-01	2.01E-01	1.91E-01
0.15	0.188883	0.199325	1.92E-01	2.16E-01	1.86E-01	1.97E-01	1.88E-01
0.141	0.185084	0.196846	1.88E-01	2.10E-01	1.83E-01	1.94E-01	1.84E-01
0.121	0.147639	0.18631	1.51E-01	1.68E-01	1.45E-01	1.84E-01	1.46E-01
0.121	0.143724	0.16982	1.47E-01	1.66E-01	1.41E-01	1.67E-01	1.42E-01
0.12	0.13981	0.155177	1.43E-01	1.63E-01	1.37E-01	1.53E-01	1.39E-01
0.119	0.135895	0.14238	1.39E-01	1.59E-01	1.33E-01	1.40E-01	1.35E-01
0.119	0.131981	0.131429	1.35E-01	1.54E-01	1.29E-01	1.29E-01	1.31E-01
0.11	0.128066	0.122325	1.31E-01	1.47E-01	1.26E-01	1.20E-01	1.27E-01
0.082	0.091198	0.13189	9.44E-02	8.07E-02	8.87E-02	1.29E-01	8.93E-02
0.081	0.087168	0.108775	9.04E-02	7.88E-02	8.47E-02	1.06E-01	8.56E-02
0.081	0.083139	0.087506	8.63E-02	7.57E-02	8.06E-02	8.50E-02	8.18E-02

0.081	0.079109	0.068084	8.23E-02	7.16E-02	7.66E-02	6.56E-02	7.80E-02
0.079	0.075079	0.050508	7.83E-02	6.64E-02	7.26E-02	4.80E-02	7.42E-02
0.071	0.071049	0.034779	7.43E-02	6.02E-02	6.85E-02	3.23E-02	7.05E-02
0.396	0.311488	0.26595	3.15E-01	2.75E-01	3.16E-01	2.70E-01	3.15E-01
0.395	0.30792	0.269335	3.11E-01	2.73E-01	3.12E-01	2.73E-01	3.12E-01
0.393	0.304351	0.274567	3.08E-01	2.70E-01	3.08E-01	2.79E-01	3.08E-01
0.392	0.300783	0.281645	3.04E-01	2.65E-01	3.05E-01	2.86E-01	3.04E-01
0.391	0.297214	0.29057	3.00E-01	2.60E-01	3.01E-01	2.95E-01	3.00E-01
0.369	0.293646	0.301341	2.97E-01	2.54E-01	2.98E-01	3.05E-01	2.97E-01
0.298	0.283268	0.259905	2.87E-01	2.71E-01	2.87E-01	2.64E-01	2.87E-01
0.303	0.279642	0.259978	2.83E-01	2.70E-01	2.84E-01	2.64E-01	2.83E-01
0.297	0.276016	0.261897	2.79E-01	2.66E-01	2.80E-01	2.66E-01	2.79E-01
0.295	0.272389	0.265663	2.76E-01	2.62E-01	2.76E-01	2.70E-01	2.76E-01
0.287	0.268763	0.271275	2.72E-01	2.57E-01	2.73E-01	2.75E-01	2.72E-01
0.268	0.265137	0.278734	2.68E-01	2.51E-01	2.69E-01	2.83E-01	2.68E-01
0.233	0.255047	0.250604	2.58E-01	2.62E-01	2.59E-01	2.55E-01	2.59E-01
0.232	0.251364	0.247364	2.55E-01	2.60E-01	2.55E-01	2.51E-01	2.55E-01
0.231	0.24768	0.245971	2.51E-01	2.57E-01	2.52E-01	2.50E-01	2.51E-01
0.23	0.243996	0.246424	2.47E-01	2.53E-01	2.48E-01	2.50E-01	2.47E-01
0.229	0.240312	0.248724	2.44E-01	2.48E-01	2.44E-01	2.53E-01	2.44E-01
0.209	0.236629	0.25287	2.40E-01	2.42E-01	2.41E-01	2.57E-01	2.40E-01
0.161	0.198607	0.222233	2.02E-01	2.25E-01	2.03E-01	2.26E-01	2.02E-01
0.159	0.194808	0.212368	1.98E-01	2.23E-01	1.99E-01	2.16E-01	1.98E-01
0.157	0.191008	0.20435	1.94E-01	2.20E-01	1.95E-01	2.08E-01	1.94E-01
0.15	0.187209	0.198178	1.90E-01	2.16E-01	1.91E-01	2.02E-01	1.91E-01
0.149	0.18341	0.193852	1.87E-01	2.10E-01	1.87E-01	1.98E-01	1.87E-01
0.143	0.179611	0.191374	1.83E-01	2.04E-01	1.84E-01	1.95E-01	1.83E-01
0.137	0.142166	0.180838	1.45E-01	1.62E-01	1.46E-01	1.85E-01	1.45E-01
0.138	0.138252	0.164348	1.41E-01	1.60E-01	1.42E-01	1.68E-01	1.41E-01
0.137	0.134337	0.149704	1.38E-01	1.57E-01	1.38E-01	1.54E-01	1.38E-01
0.136	0.130423	0.136907	1.34E-01	1.53E-01	1.34E-01	1.41E-01	1.34E-01
0.135	0.126508	0.125956	1.30E-01	1.48E-01	1.31E-01	1.30E-01	1.30E-01
0.128	0.122594	0.116852	1.26E-01	1.42E-01	1.27E-01	1.21E-01	1.26E-01
0.112	0.085725	0.126417	8.90E-02	7.53E-02	8.97E-02	1.30E-01	8.85E-02
0.112	0.081696	0.103302	8.49E-02	7.33E-02	8.57E-02	1.07E-01	8.47E-02
0.112	0.077666	0.082033	8.09E-02	7.03E-02	8.17E-02	8.60E-02	8.09E-02
0.11	0.073636	0.062611	7.69E-02	6.61E-02	7.76E-02	6.66E-02	7.72E-02
0.11	0.069606	0.045036	7.28E-02	6.10E-02	7.36E-02	4.90E-02	7.34E-02
0.09	0.065576	0.029306	6.88E-02	5.47E-02	6.96E-02	3.33E-02	6.96E-02
0.432	0.337578	0.29204	3.41E-01	3.01E-01	3.30E-01	2.85E-01	3.34E-01
0.432	0.33401	0.295425	3.37E-01	2.99E-01	3.27E-01	2.88E-01	3.31E-01
0.43	0.330441	0.300657	3.34E-01	2.96E-01	3.23E-01	2.93E-01	3.27E-01
0.431	0.326873	0.307735	3.30E-01	2.92E-01	3.19E-01	3.00E-01	3.23E-01
0.43	0.323304	0.31666	3.27E-01	2.86E-01	3.16E-01	3.09E-01	3.19E-01
0.415	0.319736	0.327431	3.23E-01	2.80E-01	3.12E-01	3.20E-01	3.16E-01
0.342	0.309358	0.285995	3.13E-01	2.98E-01	3.02E-01	2.79E-01	3.06E-01
0.339	0.305732	0.286068	3.09E-01	2.96E-01	2.98E-01	2.79E-01	3.02E-01
0.335	0.302106	0.287987	3.05E-01	2.93E-01	2.95E-01	2.81E-01	2.98E-01

0.338	0.298479	0.291753	3.02E-01	2.88E-01	2.91E-01	2.84E-01	2.95E-01
0.337	0.294853	0.297365	2.98E-01	2.83E-01	2.87E-01	2.90E-01	2.91E-01
0.315	0.291227	0.304824	2.94E-01	2.77E-01	2.84E-01	2.97E-01	2.87E-01
0.255	0.281137	0.276694	2.84E-01	2.88E-01	2.74E-01	2.69E-01	2.78E-01
0.254	0.277454	0.273454	2.81E-01	2.86E-01	2.70E-01	2.66E-01	2.74E-01
0.256	0.27377	0.272061	2.77E-01	2.83E-01	2.66E-01	2.65E-01	2.70E-01
0.254	0.270086	0.272514	2.73E-01	2.79E-01	2.63E-01	2.65E-01	2.66E-01
0.252	0.266402	0.274814	2.70E-01	2.74E-01	2.59E-01	2.67E-01	2.63E-01
0.219	0.262718	0.27896	2.66E-01	2.68E-01	2.55E-01	2.71E-01	2.59E-01
0.165	0.224697	0.248323	2.28E-01	2.51E-01	2.17E-01	2.41E-01	2.21E-01
0.16	0.220898	0.238458	2.24E-01	2.49E-01	2.13E-01	2.31E-01	2.17E-01
0.161	0.217098	0.23044	2.20E-01	2.46E-01	2.10E-01	2.23E-01	2.13E-01
0.159	0.213299	0.224268	2.17E-01	2.42E-01	2.06E-01	2.17E-01	2.10E-01
0.161	0.2095	0.219942	2.13E-01	2.37E-01	2.02E-01	2.12E-01	2.06E-01
0.149	0.205701	0.217464	2.09E-01	2.30E-01	1.98E-01	2.10E-01	2.02E-01
0.121	0.168256	0.206928	1.71E-01	1.89E-01	1.61E-01	1.99E-01	1.64E-01
0.122	0.164341	0.190437	1.68E-01	1.87E-01	1.57E-01	1.83E-01	1.60E-01
0.122	0.160427	0.175794	1.64E-01	1.84E-01	1.53E-01	1.68E-01	1.57E-01
0.122	0.156512	0.162997	1.60E-01	1.79E-01	1.49E-01	1.56E-01	1.53E-01
0.121	0.152598	0.152046	1.56E-01	1.74E-01	1.45E-01	1.45E-01	1.49E-01
0.114	0.148683	0.142942	1.52E-01	1.68E-01	1.41E-01	1.35E-01	1.45E-01
0.098	0.111815	0.152507	1.15E-01	1.01E-01	1.04E-01	1.45E-01	1.07E-01
0.097	0.107785	0.129392	1.11E-01	9.94E-02	1.00E-01	1.22E-01	1.04E-01
0.1	0.103756	0.108123	1.07E-01	9.63E-02	9.63E-02	1.01E-01	9.99E-02
0.098	0.099726	0.088701	1.03E-01	9.22E-02	9.22E-02	8.12E-02	9.62E-02
0.09	0.095696	0.071125	9.89E-02	8.71E-02	8.82E-02	6.36E-02	9.24E-02
0.089	0.091666	0.055396	9.49E-02	8.08E-02	8.42E-02	4.79E-02	8.86E-02
0.15	0.206169	0.16063	2.12E-01	1.69E-01	2.16E-01	1.71E-01	2.06E-01
0.15	0.2026	0.164016	2.09E-01	1.67E-01	2.13E-01	1.74E-01	2.02E-01
0.14	0.199032	0.169248	2.05E-01	1.64E-01	2.09E-01	1.79E-01	1.99E-01
0.14	0.195463	0.176326	2.01E-01	1.60E-01	2.05E-01	1.86E-01	1.95E-01
0.13	0.191895	0.185251	1.98E-01	1.55E-01	2.02E-01	1.95E-01	1.91E-01
0.13	0.188327	0.196022	1.94E-01	1.49E-01	1.98E-01	2.06E-01	1.87E-01
0.13	0.177948	0.154586	1.84E-01	1.66E-01	1.88E-01	1.65E-01	1.78E-01
0.13	0.174322	0.154658	1.80E-01	1.64E-01	1.84E-01	1.65E-01	1.74E-01
0.13	0.170696	0.156578	1.77E-01	1.61E-01	1.81E-01	1.67E-01	1.70E-01
0.13	0.16707	0.160343	1.73E-01	1.57E-01	1.77E-01	1.70E-01	1.66E-01
0.12	0.163444	0.165956	1.69E-01	1.52E-01	1.73E-01	1.76E-01	1.63E-01
0.12	0.159818	0.173414	1.66E-01	1.46E-01	1.70E-01	1.83E-01	1.59E-01
0.11	0.149728	0.145285	1.56E-01	1.57E-01	1.60E-01	1.55E-01	1.49E-01
0.11	0.146044	0.142045	1.52E-01	1.55E-01	1.56E-01	1.52E-01	1.46E-01
0.11	0.142361	0.140651	1.48E-01	1.52E-01	1.52E-01	1.51E-01	1.42E-01
0.1	0.138677	0.141105	1.45E-01	1.48E-01	1.49E-01	1.51E-01	1.38E-01
0.09	0.134993	0.143404	1.41E-01	1.43E-01	1.45E-01	1.53E-01	1.34E-01
0.09	0.131309	0.147551	1.37E-01	1.36E-01	1.41E-01	1.58E-01	1.30E-01
0.09	0.093287	0.116914	9.92E-02	1.19E-01	1.03E-01	1.27E-01	9.26E-02
0.09	0.089488	0.107049	9.54E-02	1.17E-01	9.95E-02	1.17E-01	8.88E-02
0.08	0.085689	0.09903	9.16E-02	1.14E-01	9.57E-02	1.09E-01	8.51E-02

0.08	0.08189	0.092859	8.78E-02	1.10E-01	9.19E-02	1.03E-01	8.13E-02
0.08	0.078091	0.088533	8.40E-02	1.05E-01	8.81E-02	9.85E-02	7.75E-02
0.07	0.074292	0.086054	8.02E-02	9.89E-02	8.43E-02	9.60E-02	7.37E-02
0.07	0.036847	0.075518	4.28E-02	5.71E-02	4.68E-02	8.55E-02	3.59E-02
0.07	0.032932	0.059028	3.89E-02	5.52E-02	4.29E-02	6.90E-02	3.21E-02
0.07	0.029018	0.044385	3.50E-02	5.21E-02	3.90E-02	5.44E-02	2.83E-02
0.06	0.025103	0.031588	3.11E-02	4.80E-02	3.51E-02	4.16E-02	2.46E-02
0.05	0.021189	0.020637	2.71E-02	4.29E-02	3.12E-02	3.06E-02	2.08E-02
0.04	0.017274	0.011533	2.32E-02	3.66E-02	2.73E-02	2.15E-02	1.70E-02
0.04	-0.01959	0.021098	-1.36E-02	-3.01E-02	-9.60E-03	3.11E-02	-2.09E-02
0.04	-0.02362	-0.00202	-1.77E-02	-3.20E-02	-1.36E-02	7.98E-03	-2.46E-02
0.04	-0.02765	-0.02329	-2.17E-02	-3.51E-02	-1.77E-02	-1.33E-02	-2.84E-02
0.04	-0.03168	-0.04271	-2.57E-02	-3.92E-02	-2.17E-02	-3.27E-02	-3.22E-02
0.04	-0.03571	-0.06028	-2.98E-02	-4.44E-02	-2.57E-02	-5.03E-02	-3.59E-02
0.03	-0.03974	-0.07601	-3.38E-02	-5.06E-02	-2.98E-02	-6.60E-02	-3.97E-02
0.211	0.232259	0.18672	2.38E-01	1.95E-01	2.31E-01	1.85E-01	2.33E-01
0.208	0.22869	0.190106	2.35E-01	1.93E-01	2.27E-01	1.89E-01	2.29E-01
0.212	0.225122	0.195337	2.31E-01	1.90E-01	2.24E-01	1.94E-01	2.26E-01
0.208	0.221553	0.202416	2.28E-01	1.86E-01	2.20E-01	2.01E-01	2.22E-01
0.193	0.217985	0.211341	2.24E-01	1.81E-01	2.16E-01	2.10E-01	2.18E-01
0.191	0.214417	0.222112	2.20E-01	1.75E-01	2.13E-01	2.21E-01	2.14E-01
0.175	0.204038	0.180676	2.10E-01	1.92E-01	2.03E-01	1.79E-01	2.05E-01
0.174	0.200412	0.180748	2.06E-01	1.90E-01	1.99E-01	1.79E-01	2.01E-01
0.171	0.196786	0.182668	2.03E-01	1.87E-01	1.95E-01	1.81E-01	1.97E-01
0.171	0.19316	0.186433	1.99E-01	1.83E-01	1.92E-01	1.85E-01	1.93E-01
0.171	0.189534	0.192046	1.95E-01	1.78E-01	1.88E-01	1.91E-01	1.90E-01
0.165	0.185908	0.199504	1.92E-01	1.72E-01	1.84E-01	1.98E-01	1.86E-01
0.145	0.175818	0.171374	1.82E-01	1.83E-01	1.74E-01	1.70E-01	1.76E-01
0.148	0.172134	0.168135	1.78E-01	1.81E-01	1.71E-01	1.67E-01	1.73E-01
0.146	0.16845	0.166741	1.74E-01	1.78E-01	1.67E-01	1.65E-01	1.69E-01
0.146	0.164767	0.167195	1.71E-01	1.74E-01	1.63E-01	1.66E-01	1.65E-01
0.146	0.161083	0.169494	1.67E-01	1.69E-01	1.60E-01	1.68E-01	1.61E-01
0.139	0.157399	0.173641	1.63E-01	1.62E-01	1.56E-01	1.72E-01	1.58E-01
0.129	0.119377	0.143004	1.25E-01	1.46E-01	1.18E-01	1.42E-01	1.20E-01
0.128	0.115578	0.133139	1.22E-01	1.44E-01	1.14E-01	1.32E-01	1.16E-01
0.127	0.111779	0.12512	1.18E-01	1.41E-01	1.10E-01	1.24E-01	1.12E-01
0.127	0.10798	0.118948	1.14E-01	1.36E-01	1.06E-01	1.17E-01	1.08E-01
0.126	0.104181	0.114623	1.10E-01	1.31E-01	1.03E-01	1.13E-01	1.05E-01
0.115	0.100382	0.112144	1.06E-01	1.25E-01	9.89E-02	1.11E-01	1.01E-01
0.113	0.062937	0.101608	6.89E-02	8.32E-02	6.14E-02	1.00E-01	6.30E-02
0.112	0.059022	0.085118	6.50E-02	8.13E-02	5.75E-02	8.36E-02	5.92E-02
0.112	0.055108	0.070475	6.11E-02	7.82E-02	5.36E-02	6.90E-02	5.54E-02
0.111	0.051193	0.057677	5.71E-02	7.41E-02	4.97E-02	5.62E-02	5.17E-02
0.111	0.047279	0.046727	5.32E-02	6.89E-02	4.58E-02	4.52E-02	4.79E-02
0.095	0.043364	0.037623	4.93E-02	6.27E-02	4.19E-02	3.61E-02	4.41E-02
0.081	0.006496	0.047188	1.24E-02	-3.97E-03	4.99E-03	4.57E-02	6.24E-03
0.079	0.002466	0.024073	8.41E-03	-5.94E-03	9.63E-04	2.26E-02	2.47E-03
0.075	-0.00156	0.002804	4.38E-03	-8.98E-03	-3.07E-03	1.30E-03	-1.30E-03

0.075	-0.00559	-0.01662	3.54E-04	-1.31E-02	-7.10E-03	-1.81E-02	-5.07E-03
0.074	-0.00962	-0.03419	-3.68E-03	-1.83E-02	-1.11E-02	-3.57E-02	-8.84E-03
0.051	-0.01365	-0.04992	-7.71E-03	-2.45E-02	-1.52E-02	-5.14E-02	-1.26E-02
0.312	0.284439	0.2389	2.90E-01	2.48E-01	2.89E-01	2.44E-01	2.87E-01
0.311	0.28087	0.242286	2.87E-01	2.46E-01	2.86E-01	2.47E-01	2.84E-01
0.31	0.277302	0.247517	2.83E-01	2.43E-01	2.82E-01	2.52E-01	2.80E-01
0.308	0.273733	0.254596	2.80E-01	2.38E-01	2.78E-01	2.59E-01	2.76E-01
0.306	0.270165	0.263521	2.76E-01	2.33E-01	2.75E-01	2.68E-01	2.72E-01
0.304	0.266596	0.274292	2.73E-01	2.27E-01	2.71E-01	2.79E-01	2.69E-01
0.279	0.256218	0.232855	2.62E-01	2.44E-01	2.61E-01	2.38E-01	2.59E-01
0.28	0.252592	0.232928	2.59E-01	2.42E-01	2.57E-01	2.38E-01	2.55E-01
0.275	0.248966	0.234847	2.55E-01	2.39E-01	2.54E-01	2.40E-01	2.51E-01
0.264	0.24534	0.238613	2.51E-01	2.35E-01	2.50E-01	2.43E-01	2.48E-01
0.259	0.241714	0.244225	2.48E-01	2.30E-01	2.46E-01	2.49E-01	2.44E-01
0.249	0.238088	0.251684	2.44E-01	2.24E-01	2.43E-01	2.56E-01	2.40E-01
0.181	0.227998	0.223554	2.34E-01	2.35E-01	2.33E-01	2.28E-01	2.31E-01
0.182	0.224314	0.220315	2.30E-01	2.33E-01	2.29E-01	2.25E-01	2.27E-01
0.181	0.22063	0.218921	2.27E-01	2.30E-01	2.25E-01	2.24E-01	2.23E-01
0.181	0.216947	0.219374	2.23E-01	2.26E-01	2.22E-01	2.24E-01	2.19E-01
0.179	0.213263	0.221674	2.19E-01	2.21E-01	2.18E-01	2.26E-01	2.16E-01
0.165	0.209579	0.22582	2.16E-01	2.15E-01	2.14E-01	2.31E-01	2.12E-01
0.139	0.171557	0.195184	1.78E-01	1.98E-01	1.76E-01	2.00E-01	1.74E-01
0.138	0.167758	0.185319	1.74E-01	1.96E-01	1.72E-01	1.90E-01	1.70E-01
0.138	0.163959	0.1773	1.70E-01	1.93E-01	1.69E-01	1.82E-01	1.66E-01
0.138	0.16016	0.171128	1.66E-01	1.89E-01	1.65E-01	1.76E-01	1.63E-01
0.137	0.156361	0.166803	1.62E-01	1.83E-01	1.61E-01	1.71E-01	1.59E-01
0.131	0.152561	0.164324	1.59E-01	1.77E-01	1.57E-01	1.69E-01	1.55E-01
0.115	0.115117	0.153788	1.21E-01	1.35E-01	1.20E-01	1.58E-01	1.17E-01
0.114	0.111202	0.137298	1.17E-01	1.33E-01	1.16E-01	1.42E-01	1.13E-01
0.114	0.107287	0.122654	1.13E-01	1.30E-01	1.12E-01	1.27E-01	1.10E-01
0.112	0.103373	0.109857	1.09E-01	1.26E-01	1.08E-01	1.15E-01	1.06E-01
0.112	0.099458	0.098907	1.05E-01	1.21E-01	1.04E-01	1.04E-01	1.02E-01
0.095	0.095544	0.089803	1.01E-01	1.15E-01	1.00E-01	9.45E-02	9.83E-02
0.079	0.058676	0.099368	6.46E-02	4.82E-02	6.34E-02	1.04E-01	6.04E-02
0.078	0.054646	0.076252	6.06E-02	4.62E-02	5.93E-02	8.09E-02	5.67E-02
0.078	0.050616	0.054984	5.66E-02	4.32E-02	5.53E-02	5.97E-02	5.29E-02
0.075	0.046586	0.035562	5.25E-02	3.91E-02	5.13E-02	4.03E-02	4.91E-02
0.074	0.042556	0.017986	4.85E-02	3.39E-02	4.73E-02	2.27E-02	4.54E-02
0.05	0.038526	0.002257	4.45E-02	2.77E-02	4.32E-02	6.95E-03	4.16E-02
0.212	0.222052	0.176513	2.28E-01	1.85E-01	2.25E-01	1.79E-01	2.23E-01
0.212	0.218483	0.179899	2.24E-01	1.83E-01	2.21E-01	1.83E-01	2.19E-01
0.211	0.214915	0.185131	2.21E-01	1.80E-01	2.18E-01	1.88E-01	2.15E-01
0.211	0.211346	0.192209	2.17E-01	1.76E-01	2.14E-01	1.95E-01	2.11E-01
0.208	0.207778	0.201134	2.14E-01	1.71E-01	2.11E-01	2.04E-01	2.08E-01
0.205	0.20421	0.211905	2.10E-01	1.65E-01	2.07E-01	2.15E-01	2.04E-01
0.192	0.193831	0.170469	2.00E-01	1.82E-01	1.97E-01	1.73E-01	1.94E-01
0.191	0.190205	0.170541	1.96E-01	1.80E-01	1.93E-01	1.73E-01	1.91E-01
0.189	0.186579	0.172461	1.93E-01	1.77E-01	1.89E-01	1.75E-01	1.87E-01

0.187	0.182953	0.176226	1.89E-01	1.73E-01	1.86E-01	1.79E-01	1.83E-01
0.183	0.179327	0.181839	1.85E-01	1.68E-01	1.82E-01	1.85E-01	1.79E-01
0.175	0.175701	0.189297	1.82E-01	1.61E-01	1.78E-01	1.92E-01	1.75E-01
0.174	0.165611	0.161168	1.72E-01	1.73E-01	1.68E-01	1.64E-01	1.66E-01
0.171	0.161927	0.157928	1.68E-01	1.71E-01	1.65E-01	1.61E-01	1.62E-01
0.169	0.158243	0.156534	1.64E-01	1.68E-01	1.61E-01	1.59E-01	1.58E-01
0.165	0.15456	0.156988	1.61E-01	1.64E-01	1.57E-01	1.60E-01	1.55E-01
0.161	0.150876	0.159287	1.57E-01	1.58E-01	1.54E-01	1.62E-01	1.51E-01
0.151	0.147192	0.163434	1.53E-01	1.52E-01	1.50E-01	1.66E-01	1.47E-01
0.121	0.10917	0.132797	1.15E-01	1.35E-01	1.12E-01	1.36E-01	1.09E-01
0.121	0.105371	0.122932	1.11E-01	1.33E-01	1.08E-01	1.26E-01	1.05E-01
0.121	0.101572	0.114913	1.08E-01	1.30E-01	1.04E-01	1.18E-01	1.02E-01
0.119	0.097773	0.108741	1.04E-01	1.26E-01	1.01E-01	1.12E-01	9.79E-02
0.119	0.093974	0.104416	9.99E-02	1.21E-01	9.68E-02	1.07E-01	9.41E-02
0.114	0.090175	0.101937	9.61E-02	1.15E-01	9.30E-02	1.05E-01	9.03E-02
0.101	0.05273	0.091401	5.87E-02	7.30E-02	5.55E-02	9.42E-02	5.25E-02
0.102	0.048815	0.074911	5.48E-02	7.11E-02	5.16E-02	7.77E-02	4.87E-02
0.101	0.044901	0.060268	5.09E-02	6.80E-02	4.77E-02	6.31E-02	4.49E-02
0.101	0.040986	0.047471	4.69E-02	6.39E-02	4.38E-02	5.03E-02	4.12E-02
0.101	0.037072	0.03652	4.30E-02	5.87E-02	3.99E-02	3.93E-02	3.74E-02
0.095	0.033157	0.027416	3.91E-02	5.25E-02	3.60E-02	3.02E-02	3.36E-02
0.073	-0.00371	0.036981	2.24E-03	-1.42E-02	-9.14E-04	3.98E-02	-4.26E-03
0.072	-0.00774	0.013866	-1.79E-03	-1.61E-02	-4.94E-03	1.67E-02	-8.03E-03
0.071	-0.01177	-0.0074	-5.82E-03	-1.92E-02	-8.97E-03	-4.61E-03	-1.18E-02
0.071	-0.0158	-0.02683	-9.85E-03	-2.33E-02	-1.30E-02	-2.40E-02	-1.56E-02
0.07	-0.01983	-0.0444	-1.39E-02	-2.85E-02	-1.70E-02	-4.16E-02	-1.93E-02
0.054	-0.02386	-0.06013	-1.79E-02	-3.47E-02	-2.11E-02	-5.73E-02	-2.31E-02
0.307	0.248142	0.202603	2.54E-01	2.11E-01	2.39E-01	1.94E-01	2.48E-01
0.305	0.244573	0.205989	2.51E-01	2.09E-01	2.36E-01	1.97E-01	2.45E-01
0.303	0.241005	0.21122	2.47E-01	2.06E-01	2.32E-01	2.03E-01	2.41E-01
0.301	0.237436	0.218299	2.43E-01	2.02E-01	2.29E-01	2.10E-01	2.37E-01
0.3	0.233868	0.227224	2.40E-01	1.97E-01	2.25E-01	2.19E-01	2.33E-01
0.269	0.2303	0.237995	2.36E-01	1.91E-01	2.22E-01	2.29E-01	2.29E-01
0.241	0.219921	0.196559	2.26E-01	2.08E-01	2.11E-01	1.88E-01	2.20E-01
0.242	0.216295	0.196631	2.22E-01	2.06E-01	2.08E-01	1.88E-01	2.16E-01
0.242	0.212669	0.19855	2.19E-01	2.03E-01	2.04E-01	1.90E-01	2.12E-01
0.241	0.209043	0.202316	2.15E-01	1.99E-01	2.00E-01	1.94E-01	2.09E-01
0.241	0.205417	0.207929	2.11E-01	1.94E-01	1.97E-01	1.99E-01	2.05E-01
0.226	0.201791	0.215387	2.08E-01	1.88E-01	1.93E-01	2.07E-01	2.01E-01
0.195	0.191701	0.187257	1.98E-01	1.99E-01	1.83E-01	1.79E-01	1.92E-01
0.191	0.188017	0.184018	1.94E-01	1.97E-01	1.79E-01	1.75E-01	1.88E-01
0.187	0.184333	0.182624	1.90E-01	1.94E-01	1.76E-01	1.74E-01	1.84E-01
0.185	0.18065	0.183078	1.87E-01	1.90E-01	1.72E-01	1.74E-01	1.80E-01
0.182	0.176966	0.185377	1.83E-01	1.84E-01	1.68E-01	1.77E-01	1.76E-01
0.169	0.173282	0.189523	1.79E-01	1.78E-01	1.65E-01	1.81E-01	1.73E-01
0.148	0.13526	0.158887	1.41E-01	1.61E-01	1.27E-01	1.50E-01	1.35E-01
0.147	0.131461	0.149022	1.37E-01	1.59E-01	1.23E-01	1.40E-01	1.31E-01
0.143	0.127662	0.141003	1.34E-01	1.56E-01	1.19E-01	1.32E-01	1.27E-01

0.141	0.123863	0.134831	1.30E-01	1.52E-01	1.15E-01	1.26E-01	1.24E-01
0.138	0.120064	0.130506	1.26E-01	1.47E-01	1.11E-01	1.22E-01	1.20E-01
0.135	0.116265	0.128027	1.22E-01	1.41E-01	1.08E-01	1.19E-01	1.16E-01
0.115	0.07882	0.117491	8.48E-02	9.91E-02	7.01E-02	1.09E-01	7.81E-02
0.114	0.074905	0.101001	8.09E-02	9.72E-02	6.62E-02	9.23E-02	7.44E-02
0.114	0.070991	0.086357	7.69E-02	9.41E-02	6.23E-02	7.77E-02	7.06E-02
0.114	0.067076	0.07356	7.30E-02	9.00E-02	5.84E-02	6.49E-02	6.68E-02
0.112	0.063162	0.06261	6.91E-02	8.48E-02	5.45E-02	5.39E-02	6.30E-02
0.105	0.059247	0.053506	6.52E-02	7.86E-02	5.05E-02	4.48E-02	5.93E-02
0.084	0.022379	0.063071	2.83E-02	1.19E-02	1.37E-02	5.44E-02	2.14E-02
0.083	0.018349	0.039955	2.43E-02	9.95E-03	9.65E-03	3.13E-02	1.76E-02
0.083	0.014319	0.018687	2.03E-02	6.91E-03	5.62E-03	9.99E-03	1.39E-02
0.082	0.010289	-0.00074	1.62E-02	2.80E-03	1.59E-03	-9.43E-03	1.01E-02
0.081	0.006259	-0.01831	1.22E-02	-2.38E-03	-2.44E-03	-2.70E-02	6.31E-03
0.069	0.00223	-0.03404	8.18E-03	-8.64E-03	-6.47E-03	-4.27E-02	2.54E-03
0.42	0.300322	0.254783	3.06E-01	2.63E-01	2.98E-01	2.52E-01	3.00E-01
0.41	0.296753	0.258169	3.03E-01	2.61E-01	2.94E-01	2.56E-01	2.96E-01
0.41	0.293185	0.2634	2.99E-01	2.58E-01	2.91E-01	2.61E-01	2.92E-01
0.398	0.289616	0.270479	2.96E-01	2.54E-01	2.87E-01	2.68E-01	2.88E-01
0.394	0.286048	0.279403	2.92E-01	2.49E-01	2.84E-01	2.77E-01	2.85E-01
0.365	0.282479	0.290175	2.88E-01	2.43E-01	2.80E-01	2.88E-01	2.81E-01
0.305	0.272101	0.248738	2.78E-01	2.60E-01	2.70E-01	2.46E-01	2.71E-01
0.301	0.268475	0.248811	2.74E-01	2.58E-01	2.66E-01	2.46E-01	2.67E-01
0.294	0.264849	0.25073	2.71E-01	2.55E-01	2.62E-01	2.48E-01	2.64E-01
0.292	0.261223	0.254496	2.67E-01	2.51E-01	2.59E-01	2.52E-01	2.60E-01
0.289	0.257597	0.260108	2.64E-01	2.46E-01	2.55E-01	2.58E-01	2.56E-01
0.279	0.253971	0.267567	2.60E-01	2.40E-01	2.51E-01	2.65E-01	2.52E-01
0.245	0.243881	0.239437	2.50E-01	2.51E-01	2.41E-01	2.37E-01	2.43E-01
0.243	0.240197	0.236197	2.46E-01	2.49E-01	2.38E-01	2.34E-01	2.39E-01
0.241	0.236513	0.234804	2.42E-01	2.46E-01	2.34E-01	2.32E-01	2.35E-01
0.238	0.232829	0.235257	2.39E-01	2.42E-01	2.30E-01	2.33E-01	2.32E-01
0.235	0.229146	0.237557	2.35E-01	2.37E-01	2.27E-01	2.35E-01	2.28E-01
0.229	0.225462	0.241703	2.31E-01	2.30E-01	2.23E-01	2.39E-01	2.24E-01
0.15	0.18744	0.211067	1.93E-01	2.14E-01	1.85E-01	2.09E-01	1.86E-01
0.149	0.183641	0.201202	1.90E-01	2.12E-01	1.81E-01	1.99E-01	1.82E-01
0.148	0.179842	0.193183	1.86E-01	2.09E-01	1.77E-01	1.91E-01	1.79E-01
0.146	0.176043	0.187011	1.82E-01	2.04E-01	1.74E-01	1.85E-01	1.75E-01
0.141	0.172244	0.182686	1.78E-01	1.99E-01	1.70E-01	1.80E-01	1.71E-01
0.139	0.168444	0.180207	1.74E-01	1.93E-01	1.66E-01	1.78E-01	1.67E-01
0.106	0.130999	0.169671	1.37E-01	1.51E-01	1.28E-01	1.67E-01	1.29E-01
0.105	0.127085	0.153181	1.33E-01	1.49E-01	1.25E-01	1.51E-01	1.26E-01
0.105	0.12317	0.138537	1.29E-01	1.46E-01	1.21E-01	1.36E-01	1.22E-01
0.104	0.119256	0.12574	1.25E-01	1.42E-01	1.17E-01	1.23E-01	1.18E-01
0.104	0.115341	0.11479	1.21E-01	1.37E-01	1.13E-01	1.12E-01	1.14E-01
0.095	0.111427	0.105686	1.17E-01	1.31E-01	1.09E-01	1.03E-01	1.11E-01
0.071	0.074559	0.115251	8.05E-02	6.41E-02	7.21E-02	1.13E-01	7.27E-02
0.069	0.070529	0.092135	7.65E-02	6.21E-02	6.80E-02	8.96E-02	6.89E-02
0.069	0.066499	0.070867	7.25E-02	5.91E-02	6.40E-02	6.84E-02	6.52E-02

0.069	0.062469	0.051445	6.84E-02	5.50E-02	6.00E-02	4.89E-02	6.14E-02
0.068	0.058439	0.033869	6.44E-02	4.98E-02	5.59E-02	3.14E-02	5.76E-02
0.057	0.054409	0.01814	6.04E-02	4.35E-02	5.19E-02	1.56E-02	5.38E-02
0.397	0.294849	0.24931	3.01E-01	2.58E-01	2.99E-01	2.53E-01	2.99E-01
0.396	0.29128	0.252696	2.97E-01	2.56E-01	2.95E-01	2.57E-01	2.95E-01
0.393	0.287712	0.257927	2.94E-01	2.53E-01	2.92E-01	2.62E-01	2.91E-01
0.393	0.284143	0.265006	2.90E-01	2.49E-01	2.88E-01	2.69E-01	2.87E-01
0.393	0.280575	0.273931	2.87E-01	2.44E-01	2.85E-01	2.78E-01	2.84E-01
0.37	0.277007	0.284702	2.83E-01	2.37E-01	2.81E-01	2.89E-01	2.80E-01
0.288	0.266628	0.243266	2.73E-01	2.55E-01	2.71E-01	2.47E-01	2.70E-01
0.286	0.263002	0.243338	2.69E-01	2.53E-01	2.67E-01	2.47E-01	2.67E-01
0.284	0.259376	0.245257	2.65E-01	2.50E-01	2.63E-01	2.49E-01	2.63E-01
0.284	0.25575	0.249023	2.62E-01	2.46E-01	2.60E-01	2.53E-01	2.59E-01
0.283	0.252124	0.254636	2.58E-01	2.41E-01	2.56E-01	2.59E-01	2.55E-01
0.259	0.248498	0.262094	2.54E-01	2.34E-01	2.53E-01	2.66E-01	2.52E-01
0.219	0.238408	0.233964	2.44E-01	2.45E-01	2.42E-01	2.38E-01	2.42E-01
0.218	0.234724	0.230725	2.41E-01	2.44E-01	2.39E-01	2.35E-01	2.38E-01
0.216	0.23104	0.229331	2.37E-01	2.40E-01	2.35E-01	2.33E-01	2.34E-01
0.215	0.227357	0.229785	2.33E-01	2.36E-01	2.31E-01	2.34E-01	2.31E-01
0.215	0.223673	0.232084	2.30E-01	2.31E-01	2.28E-01	2.36E-01	2.27E-01
0.197	0.219989	0.23623	2.26E-01	2.25E-01	2.24E-01	2.40E-01	2.23E-01
0.145	0.181967	0.205594	1.88E-01	2.08E-01	1.86E-01	2.10E-01	1.85E-01
0.143	0.178168	0.195729	1.84E-01	2.06E-01	1.82E-01	2.00E-01	1.82E-01
0.142	0.174369	0.18771	1.80E-01	2.03E-01	1.78E-01	1.92E-01	1.78E-01
0.142	0.17057	0.181538	1.77E-01	1.99E-01	1.75E-01	1.86E-01	1.74E-01
0.141	0.166771	0.177213	1.73E-01	1.94E-01	1.71E-01	1.81E-01	1.70E-01
0.133	0.162972	0.174734	1.69E-01	1.88E-01	1.67E-01	1.79E-01	1.66E-01
0.129	0.125527	0.164198	1.32E-01	1.46E-01	1.30E-01	1.68E-01	1.29E-01
0.126	0.121612	0.147708	1.28E-01	1.44E-01	1.26E-01	1.52E-01	1.25E-01
0.126	0.117698	0.133064	1.24E-01	1.41E-01	1.22E-01	1.37E-01	1.21E-01
0.125	0.113783	0.120267	1.20E-01	1.37E-01	1.18E-01	1.24E-01	1.17E-01
0.116	0.109869	0.109317	1.16E-01	1.32E-01	1.14E-01	1.13E-01	1.13E-01
0.111	0.105954	0.100213	1.12E-01	1.25E-01	1.10E-01	1.04E-01	1.10E-01
0.085	0.069086	0.109778	7.51E-02	5.86E-02	7.31E-02	1.14E-01	7.18E-02
0.084	0.065056	0.086662	7.10E-02	5.67E-02	6.91E-02	9.07E-02	6.81E-02
0.083	0.061026	0.065394	6.70E-02	5.36E-02	6.50E-02	6.94E-02	6.43E-02
0.083	0.056996	0.045972	6.30E-02	4.95E-02	6.10E-02	5.00E-02	6.05E-02
0.081	0.052966	0.028396	5.90E-02	4.43E-02	5.70E-02	3.24E-02	5.68E-02
0.065	0.048937	0.012667	5.49E-02	3.81E-02	5.30E-02	1.67E-02	5.30E-02
0.432	0.320939	0.2754	3.27E-01	2.84E-01	3.13E-01	2.68E-01	3.18E-01
0.432	0.31737	0.278786	3.23E-01	2.82E-01	3.10E-01	2.71E-01	3.14E-01
0.431	0.313802	0.284017	3.20E-01	2.79E-01	3.06E-01	2.77E-01	3.10E-01
0.433	0.310233	0.291096	3.16E-01	2.75E-01	3.03E-01	2.84E-01	3.06E-01
0.434	0.306665	0.300021	3.13E-01	2.70E-01	2.99E-01	2.93E-01	3.03E-01
0.418	0.303096	0.310792	3.09E-01	2.63E-01	2.96E-01	3.03E-01	2.99E-01
0.329	0.292718	0.269355	2.99E-01	2.81E-01	2.85E-01	2.62E-01	2.89E-01
0.328	0.289092	0.269428	2.95E-01	2.79E-01	2.82E-01	2.62E-01	2.86E-01
0.325	0.285466	0.271347	2.91E-01	2.76E-01	2.78E-01	2.64E-01	2.82E-01

0.321	0.28184	0.275113	2.88E-01	2.72E-01	2.74E-01	2.68E-01	2.78E-01
0.321	0.278214	0.280725	2.84E-01	2.67E-01	2.71E-01	2.73E-01	2.74E-01
0.305	0.274588	0.288184	2.81E-01	2.60E-01	2.67E-01	2.81E-01	2.71E-01
0.225	0.264498	0.260054	2.70E-01	2.72E-01	2.57E-01	2.53E-01	2.61E-01
0.22	0.260814	0.256815	2.67E-01	2.70E-01	2.53E-01	2.49E-01	2.57E-01
0.22	0.25713	0.255421	2.63E-01	2.67E-01	2.50E-01	2.48E-01	2.53E-01
0.221	0.253447	0.255874	2.59E-01	2.62E-01	2.46E-01	2.48E-01	2.50E-01
0.219	0.249763	0.258174	2.56E-01	2.57E-01	2.42E-01	2.51E-01	2.46E-01
0.201	0.246079	0.26232	2.52E-01	2.51E-01	2.39E-01	2.55E-01	2.42E-01
0.149	0.208057	0.231684	2.14E-01	2.34E-01	2.01E-01	2.24E-01	2.04E-01
0.148	0.204258	0.221819	2.10E-01	2.32E-01	1.97E-01	2.14E-01	2.01E-01
0.145	0.200459	0.2138	2.06E-01	2.29E-01	1.93E-01	2.06E-01	1.97E-01
0.149	0.19666	0.207628	2.03E-01	2.25E-01	1.89E-01	2.00E-01	1.93E-01
0.148	0.192861	0.203303	1.99E-01	2.20E-01	1.85E-01	1.96E-01	1.89E-01
0.146	0.189061	0.200824	1.95E-01	2.14E-01	1.82E-01	1.93E-01	1.85E-01
0.103	0.151617	0.190288	1.58E-01	1.72E-01	1.44E-01	1.83E-01	1.48E-01
0.102	0.147702	0.173798	1.54E-01	1.70E-01	1.40E-01	1.66E-01	1.44E-01
0.102	0.143787	0.159154	1.50E-01	1.67E-01	1.36E-01	1.52E-01	1.40E-01
0.101	0.139873	0.146357	1.46E-01	1.63E-01	1.32E-01	1.39E-01	1.36E-01
0.101	0.135958	0.135407	1.42E-01	1.58E-01	1.28E-01	1.28E-01	1.32E-01
0.085	0.132044	0.126303	1.38E-01	1.51E-01	1.25E-01	1.19E-01	1.29E-01
0.061	0.095176	0.135868	1.01E-01	8.47E-02	8.77E-02	1.28E-01	9.08E-02
0.062	0.091146	0.112752	9.71E-02	8.27E-02	8.37E-02	1.05E-01	8.71E-02
0.061	0.087116	0.091484	9.31E-02	7.97E-02	7.96E-02	8.40E-02	8.33E-02
0.061	0.083086	0.072062	8.91E-02	7.56E-02	7.56E-02	6.46E-02	7.95E-02
0.058	0.079056	0.054486	8.50E-02	7.04E-02	7.16E-02	4.70E-02	7.58E-02
0.047	0.075026	0.038757	8.10E-02	6.42E-02	6.75E-02	3.13E-02	7.20E-02
0.15	0.189529	0.143991	1.84E-01	1.53E-01	2.00E-01	1.54E-01	1.89E-01
0.15	0.185961	0.147376	1.81E-01	1.51E-01	1.96E-01	1.57E-01	1.86E-01
0.14	0.182392	0.152608	1.77E-01	1.48E-01	1.92E-01	1.63E-01	1.82E-01
0.14	0.178824	0.159686	1.74E-01	1.44E-01	1.89E-01	1.70E-01	1.78E-01
0.13	0.175256	0.168611	1.70E-01	1.38E-01	1.85E-01	1.79E-01	1.74E-01
0.13	0.171687	0.179383	1.66E-01	1.32E-01	1.82E-01	1.89E-01	1.71E-01
0.11	0.161309	0.137946	1.56E-01	1.50E-01	1.71E-01	1.48E-01	1.61E-01
0.11	0.157683	0.138019	1.52E-01	1.48E-01	1.68E-01	1.48E-01	1.57E-01
0.1	0.154057	0.139938	1.49E-01	1.45E-01	1.64E-01	1.50E-01	1.54E-01
0.1	0.150431	0.143704	1.45E-01	1.40E-01	1.60E-01	1.54E-01	1.50E-01
0.1	0.146805	0.149316	1.42E-01	1.35E-01	1.57E-01	1.59E-01	1.46E-01
0.085	0.143178	0.156775	1.38E-01	1.29E-01	1.53E-01	1.67E-01	1.42E-01
0.085	0.133089	0.128645	1.28E-01	1.40E-01	1.43E-01	1.39E-01	1.33E-01
0.085	0.129405	0.125405	1.24E-01	1.38E-01	1.39E-01	1.35E-01	1.29E-01
0.085	0.125721	0.124012	1.21E-01	1.35E-01	1.36E-01	1.34E-01	1.25E-01
0.08	0.122037	0.124465	1.17E-01	1.31E-01	1.32E-01	1.34E-01	1.21E-01
0.085	0.118353	0.126765	1.13E-01	1.26E-01	1.28E-01	1.37E-01	1.18E-01
0.075	0.11467	0.130911	1.09E-01	1.20E-01	1.25E-01	1.41E-01	1.14E-01
0.06	0.076648	0.100274	7.15E-02	1.03E-01	8.66E-02	1.10E-01	7.60E-02
0.06	0.072849	0.090409	6.77E-02	1.01E-01	8.28E-02	1.00E-01	7.22E-02
0.05	0.06905	0.082391	6.39E-02	9.78E-02	7.90E-02	9.24E-02	6.84E-02

0.05	0.06525	0.076219	6.01E-02	9.37E-02	7.52E-02	8.62E-02	6.46E-02
0.05	0.061451	0.071894	5.63E-02	8.85E-02	7.14E-02	8.19E-02	6.09E-02
0.05	0.057652	0.069415	5.25E-02	8.22E-02	6.77E-02	7.94E-02	5.71E-02
0.04	0.020207	0.058879	1.50E-02	4.05E-02	3.02E-02	6.89E-02	1.92E-02
0.04	0.016293	0.042389	1.11E-02	3.85E-02	2.63E-02	5.24E-02	1.55E-02
0.04	0.012378	0.027745	7.19E-03	3.55E-02	2.24E-02	3.77E-02	1.17E-02
0.03	0.008464	0.014948	3.27E-03	3.14E-02	1.85E-02	2.49E-02	7.92E-03
0.03	0.004549	0.003998	-6.41E-04	2.62E-02	1.45E-02	1.40E-02	4.15E-03
0.03	0.000635	-0.00511	-4.56E-03	2.00E-02	1.06E-02	4.89E-03	3.78E-04
0.02	-0.03623	0.004458	-4.14E-02	-4.67E-02	-2.62E-02	1.45E-02	-3.75E-02
0.02	-0.04026	-0.01866	-4.55E-02	-4.87E-02	-3.03E-02	-8.66E-03	-4.13E-02
0.02	-0.04429	-0.03993	-4.95E-02	-5.17E-02	-3.43E-02	-2.99E-02	-4.50E-02
0.015	-0.04832	-0.05935	-5.35E-02	-5.58E-02	-3.83E-02	-4.93E-02	-4.88E-02
0.015	-0.05235	-0.07692	-5.75E-02	-6.10E-02	-4.24E-02	-6.69E-02	-5.26E-02
0.005	-0.05638	-0.09265	-6.16E-02	-6.72E-02	-4.64E-02	-8.27E-02	-5.64E-02
0.212	0.215619	0.170081	2.10E-01	1.79E-01	2.14E-01	1.69E-01	2.17E-01
0.212	0.212051	0.173466	2.07E-01	1.77E-01	2.11E-01	1.72E-01	2.13E-01
0.213	0.208482	0.178698	2.03E-01	1.74E-01	2.07E-01	1.77E-01	2.09E-01
0.21	0.204914	0.185776	2.00E-01	1.70E-01	2.03E-01	1.84E-01	2.05E-01
0.205	0.201346	0.194701	1.96E-01	1.64E-01	2.00E-01	1.93E-01	2.01E-01
0.199	0.197777	0.205473	1.93E-01	1.58E-01	1.96E-01	2.04E-01	1.98E-01
0.169	0.187399	0.164036	1.82E-01	1.76E-01	1.86E-01	1.63E-01	1.88E-01
0.168	0.183773	0.164109	1.79E-01	1.74E-01	1.82E-01	1.63E-01	1.84E-01
0.167	0.180147	0.166028	1.75E-01	1.71E-01	1.79E-01	1.65E-01	1.81E-01
0.163	0.176521	0.169794	1.71E-01	1.66E-01	1.75E-01	1.68E-01	1.77E-01
0.162	0.172894	0.175406	1.68E-01	1.61E-01	1.71E-01	1.74E-01	1.73E-01
0.156	0.169268	0.182865	1.64E-01	1.55E-01	1.68E-01	1.81E-01	1.69E-01
0.131	0.159179	0.154735	1.54E-01	1.66E-01	1.58E-01	1.53E-01	1.60E-01
0.129	0.155495	0.151495	1.50E-01	1.64E-01	1.54E-01	1.50E-01	1.56E-01
0.128	0.151811	0.150102	1.47E-01	1.61E-01	1.50E-01	1.49E-01	1.52E-01
0.126	0.148127	0.150555	1.43E-01	1.57E-01	1.47E-01	1.49E-01	1.48E-01
0.124	0.144443	0.152855	1.39E-01	1.52E-01	1.43E-01	1.51E-01	1.45E-01
0.116	0.14076	0.157001	1.36E-01	1.46E-01	1.39E-01	1.56E-01	1.41E-01
0.101	0.102738	0.126364	9.75E-02	1.29E-01	1.01E-01	1.25E-01	1.03E-01
0.098	0.098939	0.116499	9.37E-02	1.27E-01	9.74E-02	1.15E-01	9.93E-02
0.099	0.09514	0.108481	9.00E-02	1.24E-01	9.36E-02	1.07E-01	9.55E-02
0.098	0.09134	0.102309	8.62E-02	1.20E-01	8.98E-02	1.01E-01	9.17E-02
0.096	0.087541	0.097984	8.24E-02	1.15E-01	8.60E-02	9.65E-02	8.80E-02
0.088	0.083742	0.095505	7.86E-02	1.08E-01	8.22E-02	9.40E-02	8.42E-02
0.068	0.046297	0.084969	4.11E-02	6.66E-02	4.48E-02	8.35E-02	4.63E-02
0.066	0.042383	0.068479	3.72E-02	6.46E-02	4.09E-02	6.70E-02	4.26E-02
0.067	0.038468	0.053835	3.33E-02	6.16E-02	3.70E-02	5.23E-02	3.88E-02
0.066	0.034554	0.041038	2.94E-02	5.75E-02	3.31E-02	3.95E-02	3.50E-02
0.065	0.030639	0.030087	2.55E-02	5.23E-02	2.91E-02	2.86E-02	3.12E-02
0.058	0.026725	0.020984	2.15E-02	4.60E-02	2.52E-02	1.95E-02	2.75E-02
0.024	-0.01014	0.030548	-1.53E-02	-2.06E-02	-1.16E-02	2.91E-02	-1.04E-02
0.023	-0.01417	0.007433	-1.94E-02	-2.26E-02	-1.57E-02	5.94E-03	-1.42E-02

0.023	-0.0182	-0.01384	-2.34E-02	-2.56E-02	-1.97E-02	-1.53E-02	-1.79E-02
0.021	-0.02223	-0.03326	-2.74E-02	-2.97E-02	-2.37E-02	-3.48E-02	-2.17E-02
0.02	-0.02626	-0.05083	-3.15E-02	-3.49E-02	-2.78E-02	-5.23E-02	-2.55E-02
0.012	-0.03029	-0.06656	-3.55E-02	-4.12E-02	-3.18E-02	-6.81E-02	-2.92E-02
0.31	0.267799	0.222261	2.63E-01	2.31E-01	2.72E-01	2.27E-01	2.71E-01
0.31	0.264231	0.225646	2.59E-01	2.29E-01	2.69E-01	2.30E-01	2.67E-01
0.3	0.260662	0.230878	2.55E-01	2.26E-01	2.65E-01	2.36E-01	2.63E-01
0.309	0.257094	0.237956	2.52E-01	2.22E-01	2.62E-01	2.43E-01	2.59E-01
0.304	0.253525	0.246881	2.48E-01	2.17E-01	2.58E-01	2.52E-01	2.56E-01
0.303	0.249957	0.257652	2.45E-01	2.10E-01	2.55E-01	2.62E-01	2.52E-01
0.263	0.239579	0.216216	2.34E-01	2.28E-01	2.44E-01	2.21E-01	2.42E-01
0.263	0.235953	0.216289	2.31E-01	2.26E-01	2.41E-01	2.21E-01	2.39E-01
0.261	0.232327	0.218208	2.27E-01	2.23E-01	2.37E-01	2.23E-01	2.35E-01
0.262	0.2287	0.221974	2.24E-01	2.19E-01	2.33E-01	2.27E-01	2.31E-01
0.259	0.225074	0.227586	2.20E-01	2.13E-01	2.30E-01	2.32E-01	2.27E-01
0.245	0.221448	0.235045	2.16E-01	2.07E-01	2.26E-01	2.40E-01	2.24E-01
0.153	0.211358	0.206915	2.06E-01	2.18E-01	2.16E-01	2.12E-01	2.14E-01
0.151	0.207675	0.203675	2.02E-01	2.16E-01	2.12E-01	2.08E-01	2.10E-01
0.152	0.203991	0.202282	1.99E-01	2.13E-01	2.09E-01	2.07E-01	2.06E-01
0.151	0.200307	0.202735	1.95E-01	2.09E-01	2.05E-01	2.07E-01	2.03E-01
0.147	0.196623	0.205035	1.91E-01	2.04E-01	2.01E-01	2.10E-01	1.99E-01
0.143	0.192939	0.209181	1.88E-01	1.98E-01	1.98E-01	2.14E-01	1.95E-01
0.118	0.154918	0.178544	1.50E-01	1.81E-01	1.60E-01	1.83E-01	1.57E-01
0.117	0.151119	0.168679	1.46E-01	1.79E-01	1.56E-01	1.73E-01	1.53E-01
0.117	0.147319	0.160661	1.42E-01	1.76E-01	1.52E-01	1.65E-01	1.50E-01
0.117	0.14352	0.154489	1.38E-01	1.72E-01	1.48E-01	1.59E-01	1.46E-01
0.115	0.139721	0.150163	1.35E-01	1.67E-01	1.44E-01	1.55E-01	1.42E-01
0.102	0.135922	0.147685	1.31E-01	1.61E-01	1.41E-01	1.52E-01	1.38E-01
0.074	0.098477	0.137149	9.33E-02	1.19E-01	1.03E-01	1.42E-01	1.01E-01
0.073	0.094563	0.120658	8.94E-02	1.17E-01	9.93E-02	1.25E-01	9.68E-02
0.073	0.090648	0.106015	8.55E-02	1.14E-01	9.53E-02	1.11E-01	9.30E-02
0.072	0.086733	0.093218	8.15E-02	1.10E-01	9.14E-02	9.79E-02	8.92E-02
0.071	0.082819	0.082267	7.76E-02	1.04E-01	8.75E-02	8.70E-02	8.55E-02
0.058	0.078904	0.073163	7.37E-02	9.82E-02	8.36E-02	7.79E-02	8.17E-02
0.029	0.042036	0.082728	3.68E-02	3.16E-02	4.67E-02	8.74E-02	4.38E-02
0.028	0.038006	0.059613	3.28E-02	2.96E-02	4.27E-02	6.43E-02	4.00E-02
0.026	0.033977	0.038344	2.88E-02	2.66E-02	3.87E-02	4.30E-02	3.63E-02
0.025	0.029947	0.018922	2.48E-02	2.25E-02	3.46E-02	2.36E-02	3.25E-02
0.021	0.025917	0.001346	2.07E-02	1.73E-02	3.06E-02	6.05E-03	2.87E-02
0.011	0.021887	-0.01438	1.67E-02	1.10E-02	2.66E-02	-9.68E-03	2.50E-02
0.211	0.205412	0.159874	2.00E-01	1.69E-01	2.08E-01	1.63E-01	2.06E-01
0.211	0.201844	0.163259	1.97E-01	1.67E-01	2.05E-01	1.66E-01	2.02E-01
0.21	0.198275	0.168491	1.93E-01	1.64E-01	2.01E-01	1.71E-01	1.98E-01
0.21	0.194707	0.175569	1.90E-01	1.59E-01	1.98E-01	1.78E-01	1.95E-01
0.205	0.191139	0.184494	1.86E-01	1.54E-01	1.94E-01	1.87E-01	1.91E-01
0.201	0.18757	0.195266	1.82E-01	1.48E-01	1.90E-01	1.98E-01	1.87E-01
0.162	0.177192	0.153829	1.72E-01	1.65E-01	1.80E-01	1.57E-01	1.78E-01
0.159	0.173566	0.153902	1.68E-01	1.63E-01	1.76E-01	1.57E-01	1.74E-01

0.158	0.16994	0.155821	1.65E-01	1.60E-01	1.73E-01	1.59E-01	1.70E-01
0.157	0.166314	0.159587	1.61E-01	1.56E-01	1.69E-01	1.62E-01	1.66E-01
0.156	0.162687	0.165199	1.58E-01	1.51E-01	1.65E-01	1.68E-01	1.63E-01
0.149	0.159061	0.172658	1.54E-01	1.45E-01	1.62E-01	1.75E-01	1.59E-01
0.121	0.148972	0.144528	1.44E-01	1.56E-01	1.52E-01	1.47E-01	1.49E-01
0.122	0.145288	0.141288	1.40E-01	1.54E-01	1.48E-01	1.44E-01	1.46E-01
0.123	0.141604	0.139895	1.36E-01	1.51E-01	1.44E-01	1.43E-01	1.42E-01
0.121	0.13792	0.140348	1.33E-01	1.47E-01	1.41E-01	1.43E-01	1.38E-01
0.118	0.134236	0.142648	1.29E-01	1.42E-01	1.37E-01	1.45E-01	1.34E-01
0.106	0.130553	0.146794	1.25E-01	1.36E-01	1.33E-01	1.50E-01	1.30E-01
0.093	0.092531	0.116157	8.73E-02	1.19E-01	9.53E-02	1.19E-01	9.26E-02
0.091	0.088732	0.106292	8.35E-02	1.17E-01	9.15E-02	1.09E-01	8.88E-02
0.091	0.084933	0.098274	7.97E-02	1.14E-01	8.77E-02	1.01E-01	8.50E-02
0.092	0.081133	0.092102	7.60E-02	1.10E-01	8.39E-02	9.49E-02	8.13E-02
0.091	0.077334	0.087777	7.22E-02	1.04E-01	8.01E-02	9.06E-02	7.75E-02
0.084	0.073535	0.085298	6.84E-02	9.81E-02	7.63E-02	8.81E-02	7.37E-02
0.056	0.03609	0.074762	3.09E-02	5.64E-02	3.89E-02	7.76E-02	3.58E-02
0.057	0.032176	0.058272	2.70E-02	5.44E-02	3.50E-02	6.11E-02	3.21E-02
0.055	0.028261	0.043628	2.31E-02	5.14E-02	3.11E-02	4.64E-02	2.83E-02
0.055	0.024347	0.030831	1.92E-02	4.73E-02	2.71E-02	3.36E-02	2.45E-02
0.054	0.020432	0.019881	1.52E-02	4.21E-02	2.32E-02	2.27E-02	2.08E-02
0.042	0.016518	0.010777	1.13E-02	3.58E-02	1.93E-02	1.36E-02	1.70E-02
0.021	-0.02035	0.020341	-2.55E-02	-3.08E-02	-1.75E-02	2.31E-02	-2.09E-02
0.019	-0.02438	-0.00277	-2.96E-02	-3.28E-02	-2.16E-02	2.84E-05	-2.47E-02
0.017	-0.02841	-0.02404	-3.36E-02	-3.58E-02	-2.56E-02	-2.12E-02	-2.84E-02
0.018	-0.03244	-0.04346	-3.76E-02	-3.99E-02	-2.96E-02	-4.07E-02	-3.22E-02
0.017	-0.03647	-0.06104	-4.17E-02	-4.51E-02	-3.37E-02	-5.82E-02	-3.60E-02
0.008	-0.0405	-0.07677	-4.57E-02	-5.14E-02	-3.77E-02	-7.40E-02	-3.97E-02
0.31	0.231502	0.185964	2.26E-01	1.95E-01	2.23E-01	1.77E-01	2.32E-01
0.307	0.227934	0.189349	2.23E-01	1.93E-01	2.19E-01	1.81E-01	2.28E-01
0.303	0.224365	0.194581	2.19E-01	1.90E-01	2.16E-01	1.86E-01	2.24E-01
0.301	0.220797	0.201659	2.16E-01	1.85E-01	2.12E-01	1.93E-01	2.20E-01
0.3	0.217228	0.210584	2.12E-01	1.80E-01	2.09E-01	2.02E-01	2.17E-01
0.269	0.21366	0.221355	2.08E-01	1.74E-01	2.05E-01	2.13E-01	2.13E-01
0.201	0.203282	0.179919	1.98E-01	1.91E-01	1.95E-01	1.71E-01	2.03E-01
0.199	0.199656	0.179992	1.94E-01	1.90E-01	1.91E-01	1.71E-01	2.00E-01
0.202	0.19603	0.181911	1.91E-01	1.86E-01	1.87E-01	1.73E-01	1.96E-01
0.198	0.192404	0.185677	1.87E-01	1.82E-01	1.84E-01	1.77E-01	1.92E-01
0.198	0.188777	0.191289	1.84E-01	1.77E-01	1.80E-01	1.83E-01	1.88E-01
0.186	0.185151	0.198748	1.80E-01	1.71E-01	1.76E-01	1.90E-01	1.84E-01
0.156	0.175061	0.170618	1.70E-01	1.82E-01	1.66E-01	1.62E-01	1.75E-01
0.152	0.171378	0.167378	1.66E-01	1.80E-01	1.63E-01	1.59E-01	1.71E-01
0.155	0.167694	0.165985	1.63E-01	1.77E-01	1.59E-01	1.57E-01	1.67E-01
0.154	0.16401	0.166438	1.59E-01	1.73E-01	1.55E-01	1.58E-01	1.64E-01
0.153	0.160326	0.168738	1.55E-01	1.68E-01	1.52E-01	1.60E-01	1.60E-01
0.147	0.156643	0.172884	1.51E-01	1.62E-01	1.48E-01	1.64E-01	1.56E-01
0.117	0.118621	0.142247	1.13E-01	1.45E-01	1.10E-01	1.34E-01	1.18E-01
0.116	0.114822	0.132382	1.10E-01	1.43E-01	1.06E-01	1.24E-01	1.14E-01

0.115	0.111023	0.124364	1.06E-01	1.40E-01	1.02E-01	1.16E-01	1.11E-01
0.115	0.107223	0.118192	1.02E-01	1.36E-01	9.85E-02	1.09E-01	1.07E-01
0.114	0.103424	0.113867	9.82E-02	1.30E-01	9.47E-02	1.05E-01	1.03E-01
0.101	0.099625	0.111388	9.44E-02	1.24E-01	9.09E-02	1.03E-01	9.94E-02
0.081	0.06218	0.100852	5.70E-02	8.25E-02	5.35E-02	9.22E-02	6.15E-02
0.082	0.058266	0.084362	5.31E-02	8.05E-02	4.96E-02	7.57E-02	5.77E-02
0.081	0.054351	0.069718	4.92E-02	7.75E-02	4.57E-02	6.10E-02	5.39E-02
0.079	0.050437	0.056921	4.53E-02	7.34E-02	4.17E-02	4.82E-02	5.02E-02
0.079	0.046522	0.04597	4.13E-02	6.82E-02	3.78E-02	3.73E-02	4.64E-02
0.069	0.042608	0.036866	3.74E-02	6.19E-02	3.39E-02	2.82E-02	4.26E-02
0.032	0.005739	0.046431	5.57E-04	-4.73E-03	-2.95E-03	3.77E-02	4.75E-03
0.031	0.00171	0.023316	-3.47E-03	-6.69E-03	-6.98E-03	1.46E-02	9.84E-04
0.032	-0.00232	0.002047	-7.50E-03	-9.73E-03	-1.10E-02	-6.65E-03	-2.79E-03
0.029	-0.00635	-0.01737	-1.15E-02	-1.38E-02	-1.50E-02	-2.61E-02	-6.56E-03
0.026	-0.01038	-0.03495	-1.56E-02	-1.90E-02	-1.91E-02	-4.36E-02	-1.03E-02
0.013	-0.01441	-0.05068	-1.96E-02	-2.53E-02	-2.31E-02	-5.94E-02	-1.41E-02
0.425	0.283682	0.238144	2.79E-01	2.47E-01	2.81E-01	2.36E-01	2.83E-01
0.418	0.280114	0.241529	2.75E-01	2.45E-01	2.78E-01	2.39E-01	2.79E-01
0.412	0.276545	0.246761	2.71E-01	2.42E-01	2.74E-01	2.44E-01	2.75E-01
0.405	0.272977	0.253839	2.68E-01	2.38E-01	2.70E-01	2.51E-01	2.72E-01
0.399	0.269408	0.262764	2.64E-01	2.32E-01	2.67E-01	2.60E-01	2.68E-01
0.376	0.26584	0.273535	2.61E-01	2.26E-01	2.63E-01	2.71E-01	2.64E-01
0.247	0.255462	0.232099	2.50E-01	2.44E-01	2.53E-01	2.30E-01	2.55E-01
0.246	0.251836	0.232172	2.47E-01	2.42E-01	2.49E-01	2.30E-01	2.51E-01
0.244	0.248209	0.234091	2.43E-01	2.39E-01	2.46E-01	2.32E-01	2.47E-01
0.242	0.244583	0.237857	2.39E-01	2.35E-01	2.42E-01	2.35E-01	2.43E-01
0.241	0.240957	0.243469	2.36E-01	2.29E-01	2.38E-01	2.41E-01	2.40E-01
0.229	0.237331	0.250928	2.32E-01	2.23E-01	2.35E-01	2.48E-01	2.36E-01
0.162	0.227241	0.222798	2.22E-01	2.34E-01	2.25E-01	2.20E-01	2.26E-01
0.161	0.223558	0.219558	2.18E-01	2.32E-01	2.21E-01	2.17E-01	2.22E-01
0.159	0.219874	0.218165	2.15E-01	2.29E-01	2.17E-01	2.16E-01	2.19E-01
0.158	0.21619	0.218618	2.11E-01	2.25E-01	2.14E-01	2.16E-01	2.15E-01
0.156	0.212506	0.220918	2.07E-01	2.20E-01	2.10E-01	2.18E-01	2.11E-01
0.148	0.208822	0.225064	2.04E-01	2.14E-01	2.06E-01	2.23E-01	2.07E-01
0.115	0.170801	0.194427	1.66E-01	1.97E-01	1.68E-01	1.92E-01	1.70E-01
0.114	0.167002	0.184562	1.62E-01	1.95E-01	1.65E-01	1.82E-01	1.66E-01
0.112	0.163202	0.176544	1.58E-01	1.92E-01	1.61E-01	1.74E-01	1.62E-01
0.111	0.159403	0.170372	1.54E-01	1.88E-01	1.57E-01	1.68E-01	1.58E-01
0.111	0.155604	0.166046	1.50E-01	1.83E-01	1.53E-01	1.64E-01	1.54E-01
0.098	0.151805	0.163568	1.47E-01	1.76E-01	1.49E-01	1.61E-01	1.51E-01
0.079	0.11436	0.153031	1.09E-01	1.35E-01	1.12E-01	1.51E-01	1.13E-01
0.078	0.110445	0.136541	1.05E-01	1.33E-01	1.08E-01	1.34E-01	1.09E-01
0.077	0.106531	0.121898	1.01E-01	1.30E-01	1.04E-01	1.19E-01	1.05E-01
0.075	0.102616	0.109101	9.74E-02	1.26E-01	1.00E-01	1.07E-01	1.01E-01
0.072	0.098702	0.09815	9.35E-02	1.20E-01	9.62E-02	9.57E-02	9.77E-02
0.059	0.094787	0.089046	8.96E-02	1.14E-01	9.23E-02	8.66E-02	9.39E-02
0.031	0.057919	0.098611	5.27E-02	4.75E-02	5.54E-02	9.61E-02	5.61E-02
0.032	0.053889	0.075496	4.87E-02	4.55E-02	5.14E-02	7.30E-02	5.23E-02

0.032	0.04986	0.054227	4.47E-02	4.24E-02	4.74E-02	5.17E-02	4.85E-02
0.032	0.04583	0.034805	4.06E-02	3.83E-02	4.33E-02	3.23E-02	4.47E-02
0.031	0.0418	0.017229	3.66E-02	3.32E-02	3.93E-02	1.47E-02	4.10E-02
0.017	0.03777	0.0015	3.26E-02	2.69E-02	3.53E-02	-9.96E-04	3.72E-02
0.396	0.278209	0.232671	2.73E-01	2.41E-01	2.82E-01	2.37E-01	2.82E-01
0.391	0.274641	0.236056	2.69E-01	2.39E-01	2.79E-01	2.40E-01	2.78E-01
0.387	0.271072	0.241288	2.66E-01	2.36E-01	2.75E-01	2.45E-01	2.75E-01
0.386	0.267504	0.248366	2.62E-01	2.32E-01	2.72E-01	2.52E-01	2.71E-01
0.383	0.263935	0.257291	2.59E-01	2.27E-01	2.68E-01	2.61E-01	2.67E-01
0.378	0.260367	0.268062	2.55E-01	2.21E-01	2.64E-01	2.72E-01	2.63E-01
0.251	0.249989	0.226626	2.45E-01	2.38E-01	2.54E-01	2.31E-01	2.54E-01
0.252	0.246363	0.226699	2.41E-01	2.36E-01	2.50E-01	2.31E-01	2.50E-01
0.251	0.242737	0.228618	2.38E-01	2.33E-01	2.47E-01	2.33E-01	2.46E-01
0.249	0.239111	0.232384	2.34E-01	2.29E-01	2.43E-01	2.36E-01	2.42E-01
0.248	0.235484	0.237996	2.30E-01	2.24E-01	2.40E-01	2.42E-01	2.39E-01
0.236	0.231858	0.245455	2.27E-01	2.18E-01	2.36E-01	2.49E-01	2.35E-01
0.159	0.221768	0.217325	2.17E-01	2.29E-01	2.26E-01	2.21E-01	2.25E-01
0.154	0.218085	0.214085	2.13E-01	2.27E-01	2.22E-01	2.18E-01	2.22E-01
0.153	0.214401	0.212692	2.09E-01	2.24E-01	2.18E-01	2.17E-01	2.18E-01
0.152	0.210717	0.213145	2.06E-01	2.20E-01	2.15E-01	2.17E-01	2.14E-01
0.148	0.207033	0.215445	2.02E-01	2.15E-01	2.11E-01	2.19E-01	2.10E-01
0.137	0.20335	0.219591	1.98E-01	2.08E-01	2.07E-01	2.24E-01	2.07E-01
0.111	0.165328	0.188954	1.60E-01	1.91E-01	1.69E-01	1.93E-01	1.69E-01
0.111	0.161529	0.179089	1.56E-01	1.90E-01	1.66E-01	1.83E-01	1.65E-01
0.112	0.15773	0.171071	1.53E-01	1.86E-01	1.62E-01	1.75E-01	1.61E-01
0.109	0.15393	0.164899	1.49E-01	1.82E-01	1.58E-01	1.69E-01	1.57E-01
0.105	0.150131	0.160574	1.45E-01	1.77E-01	1.54E-01	1.65E-01	1.54E-01
0.101	0.146332	0.158095	1.41E-01	1.71E-01	1.50E-01	1.62E-01	1.50E-01
0.081	0.108887	0.147559	1.04E-01	1.29E-01	1.13E-01	1.52E-01	1.12E-01
0.082	0.104973	0.131069	9.98E-02	1.27E-01	1.09E-01	1.35E-01	1.08E-01
0.082	0.101058	0.116425	9.59E-02	1.24E-01	1.05E-01	1.20E-01	1.04E-01
0.081	0.097144	0.103628	9.20E-02	1.20E-01	1.01E-01	1.08E-01	1.01E-01
0.079	0.093229	0.092677	8.81E-02	1.15E-01	9.73E-02	9.67E-02	9.69E-02
0.063	0.089315	0.083573	8.42E-02	1.09E-01	9.33E-02	8.76E-02	9.31E-02
0.034	0.052446	0.093138	4.73E-02	4.20E-02	5.65E-02	9.72E-02	5.52E-02
0.033	0.048417	0.070023	4.33E-02	4.00E-02	5.24E-02	7.40E-02	5.14E-02
0.033	0.044387	0.048754	3.92E-02	3.70E-02	4.84E-02	5.28E-02	4.77E-02
0.032	0.040357	0.029332	3.52E-02	3.29E-02	4.44E-02	3.34E-02	4.39E-02
0.028	0.036327	0.011757	3.12E-02	2.77E-02	4.03E-02	1.58E-02	4.01E-02
0.015	0.032297	-0.00397	2.71E-02	2.14E-02	3.63E-02	5.05E-05	3.64E-02
0.445	0.304299	0.258761	2.99E-01	2.67E-01	2.97E-01	2.51E-01	3.01E-01
0.445	0.300731	0.262146	2.96E-01	2.65E-01	2.93E-01	2.55E-01	2.97E-01
0.445	0.297162	0.267378	2.92E-01	2.62E-01	2.90E-01	2.60E-01	2.94E-01
0.439	0.293594	0.274456	2.88E-01	2.58E-01	2.86E-01	2.67E-01	2.90E-01
0.441	0.290025	0.283381	2.85E-01	2.53E-01	2.83E-01	2.76E-01	2.86E-01
0.418	0.286457	0.294152	2.81E-01	2.47E-01	2.79E-01	2.87E-01	2.82E-01
0.248	0.276079	0.252716	2.71E-01	2.64E-01	2.69E-01	2.45E-01	2.73E-01
0.247	0.272453	0.252789	2.67E-01	2.62E-01	2.65E-01	2.45E-01	2.69E-01

0.246	0.268827	0.254708	2.64E-01	2.59E-01	2.61E-01	2.47E-01	2.65E-01
0.244	0.2652	0.258474	2.60E-01	2.55E-01	2.58E-01	2.51E-01	2.61E-01
0.239	0.261574	0.264086	2.56E-01	2.50E-01	2.54E-01	2.57E-01	2.58E-01
0.212	0.257948	0.271545	2.53E-01	2.44E-01	2.50E-01	2.64E-01	2.54E-01
0.152	0.247858	0.243415	2.43E-01	2.55E-01	2.40E-01	2.36E-01	2.44E-01
0.151	0.244175	0.240175	2.39E-01	2.53E-01	2.37E-01	2.33E-01	2.41E-01
0.149	0.240491	0.238782	2.35E-01	2.50E-01	2.33E-01	2.31E-01	2.37E-01
0.151	0.236807	0.239235	2.32E-01	2.46E-01	2.29E-01	2.32E-01	2.33E-01
0.152	0.233123	0.241535	2.28E-01	2.41E-01	2.26E-01	2.34E-01	2.29E-01
0.144	0.229439	0.245681	2.24E-01	2.34E-01	2.22E-01	2.38E-01	2.26E-01
0.109	0.191418	0.215044	1.86E-01	2.18E-01	1.84E-01	2.08E-01	1.88E-01
0.108	0.187619	0.205179	1.82E-01	2.16E-01	1.80E-01	1.98E-01	1.84E-01
0.106	0.183819	0.197161	1.79E-01	2.13E-01	1.76E-01	1.90E-01	1.80E-01
0.104	0.18002	0.190989	1.75E-01	2.08E-01	1.73E-01	1.84E-01	1.76E-01
0.099	0.176221	0.186663	1.71E-01	2.03E-01	1.69E-01	1.79E-01	1.73E-01
0.078	0.172422	0.184185	1.67E-01	1.97E-01	1.65E-01	1.77E-01	1.69E-01
0.073	0.134977	0.173649	1.30E-01	1.55E-01	1.28E-01	1.66E-01	1.31E-01
0.071	0.131063	0.157158	1.26E-01	1.53E-01	1.24E-01	1.50E-01	1.27E-01
0.069	0.127148	0.142515	1.22E-01	1.50E-01	1.20E-01	1.35E-01	1.23E-01
0.066	0.123234	0.129718	1.18E-01	1.46E-01	1.16E-01	1.22E-01	1.20E-01
0.063	0.119319	0.118767	1.14E-01	1.41E-01	1.12E-01	1.11E-01	1.16E-01
0.047	0.115404	0.109663	1.10E-01	1.35E-01	1.08E-01	1.02E-01	1.12E-01
0.026	0.078536	0.119228	7.34E-02	6.81E-02	7.11E-02	1.12E-01	7.42E-02
0.024	0.074506	0.096113	6.94E-02	6.61E-02	6.70E-02	8.86E-02	7.04E-02
0.023	0.070477	0.074844	6.53E-02	6.31E-02	6.30E-02	6.74E-02	6.67E-02
0.019	0.066447	0.055422	6.13E-02	5.90E-02	5.90E-02	4.79E-02	6.29E-02
0.017	0.062417	0.037846	5.73E-02	5.38E-02	5.49E-02	3.04E-02	5.91E-02
0.008	0.058387	0.022117	5.32E-02	4.75E-02	5.09E-02	1.46E-02	5.53E-02
0.161	0.245725	0.200187	2.43E-01	2.09E-01	2.55E-01	2.10E-01	2.45E-01
0.159	0.242157	0.203572	2.39E-01	2.07E-01	2.52E-01	2.13E-01	2.42E-01
0.158	0.238589	0.208804	2.36E-01	2.04E-01	2.48E-01	2.18E-01	2.38E-01
0.157	0.23502	0.215883	2.32E-01	2.00E-01	2.45E-01	2.26E-01	2.34E-01
0.154	0.231452	0.224807	2.29E-01	1.95E-01	2.41E-01	2.34E-01	2.30E-01
0.147	0.227883	0.235579	2.25E-01	1.88E-01	2.38E-01	2.45E-01	2.27E-01
0.151	0.217505	0.194142	2.15E-01	2.06E-01	2.27E-01	2.04E-01	2.17E-01
0.147	0.213879	0.194215	2.11E-01	2.04E-01	2.23E-01	2.04E-01	2.13E-01
0.148	0.210253	0.196134	2.07E-01	2.01E-01	2.20E-01	2.06E-01	2.10E-01
0.143	0.206627	0.1999	2.04E-01	1.97E-01	2.16E-01	2.10E-01	2.06E-01
0.139	0.203001	0.205512	2.00E-01	1.91E-01	2.13E-01	2.15E-01	2.02E-01
0.134	0.199375	0.212971	1.97E-01	1.85E-01	2.09E-01	2.23E-01	1.98E-01
0.121	0.189285	0.184841	1.86E-01	1.96E-01	1.99E-01	1.94E-01	1.89E-01
0.119	0.185601	0.181601	1.83E-01	1.94E-01	1.95E-01	1.91E-01	1.85E-01
0.119	0.181917	0.180208	1.79E-01	1.91E-01	1.92E-01	1.90E-01	1.81E-01
0.121	0.178233	0.180661	1.75E-01	1.87E-01	1.88E-01	1.90E-01	1.77E-01
0.122	0.17455	0.182961	1.72E-01	1.82E-01	1.84E-01	1.93E-01	1.74E-01
0.119	0.170866	0.187107	1.68E-01	1.76E-01	1.80E-01	1.97E-01	1.70E-01
0.101	0.132844	0.156471	1.30E-01	1.59E-01	1.42E-01	1.66E-01	1.32E-01
0.099	0.129045	0.146606	1.26E-01	1.57E-01	1.39E-01	1.56E-01	1.28E-01

0.097	0.125246	0.138587	1.22E-01	1.54E-01	1.35E-01	1.48E-01	1.24E-01
0.096	0.121447	0.132415	1.19E-01	1.50E-01	1.31E-01	1.42E-01	1.21E-01
0.089	0.117648	0.12809	1.15E-01	1.45E-01	1.27E-01	1.38E-01	1.17E-01
0.068	0.113848	0.125611	1.11E-01	1.38E-01	1.23E-01	1.35E-01	1.13E-01
0.071	0.076403	0.115075	7.35E-02	9.67E-02	8.60E-02	1.25E-01	7.53E-02
0.069	0.072489	0.098585	6.96E-02	9.47E-02	8.21E-02	1.08E-01	7.15E-02
0.068	0.068574	0.083941	6.57E-02	9.17E-02	7.82E-02	9.36E-02	6.77E-02
0.065	0.06466	0.071144	6.18E-02	8.76E-02	7.43E-02	8.08E-02	6.40E-02
0.063	0.060745	0.060194	5.79E-02	8.24E-02	7.04E-02	6.98E-02	6.02E-02
0.049	0.056831	0.05109	5.40E-02	7.62E-02	6.64E-02	6.07E-02	5.64E-02
0.052	0.019963	0.060654	1.71E-02	9.49E-03	2.96E-02	7.03E-02	1.86E-02
0.051	0.015933	0.037539	1.31E-02	7.53E-03	2.56E-02	4.72E-02	1.48E-02
0.047	0.011903	0.016271	9.04E-03	4.49E-03	2.15E-02	2.59E-02	1.10E-02
0.043	0.007873	-0.00315	5.01E-03	3.82E-04	1.75E-02	6.47E-03	7.25E-03
0.041	0.003843	-0.02073	9.78E-04	-4.80E-03	1.35E-02	-1.11E-02	3.48E-03
0.038	-0.00019	-0.03646	-3.05E-03	-1.11E-02	9.43E-03	-2.68E-02	-2.90E-04
0.223	0.271815	0.226277	2.69E-01	2.35E-01	2.70E-01	2.24E-01	2.73E-01
0.221	0.268247	0.229662	2.65E-01	2.33E-01	2.66E-01	2.28E-01	2.69E-01
0.221	0.264679	0.234894	2.62E-01	2.30E-01	2.63E-01	2.33E-01	2.65E-01
0.222	0.26111	0.241973	2.58E-01	2.26E-01	2.59E-01	2.40E-01	2.61E-01
0.219	0.257542	0.250897	2.55E-01	2.21E-01	2.56E-01	2.49E-01	2.57E-01
0.187	0.253973	0.261669	2.51E-01	2.14E-01	2.52E-01	2.60E-01	2.54E-01
0.193	0.243595	0.220232	2.41E-01	2.32E-01	2.42E-01	2.18E-01	2.44E-01
0.194	0.239969	0.220305	2.37E-01	2.30E-01	2.38E-01	2.18E-01	2.40E-01
0.191	0.236343	0.222224	2.33E-01	2.27E-01	2.34E-01	2.20E-01	2.37E-01
0.189	0.232717	0.22599	2.30E-01	2.23E-01	2.31E-01	2.24E-01	2.33E-01
0.186	0.229091	0.231602	2.26E-01	2.18E-01	2.27E-01	2.30E-01	2.29E-01
0.171	0.225465	0.239061	2.23E-01	2.11E-01	2.24E-01	2.37E-01	2.25E-01
0.165	0.215375	0.210931	2.13E-01	2.22E-01	2.13E-01	2.09E-01	2.16E-01
0.166	0.211691	0.207691	2.09E-01	2.20E-01	2.10E-01	2.06E-01	2.12E-01
0.166	0.208007	0.206298	2.05E-01	2.17E-01	2.06E-01	2.04E-01	2.08E-01
0.165	0.204323	0.206751	2.01E-01	2.13E-01	2.02E-01	2.05E-01	2.05E-01
0.159	0.20064	0.209051	1.98E-01	2.08E-01	1.99E-01	2.07E-01	2.01E-01
0.143	0.196956	0.213197	1.94E-01	2.02E-01	1.95E-01	2.11E-01	1.97E-01
0.144	0.158934	0.18256	1.56E-01	1.85E-01	1.57E-01	1.81E-01	1.59E-01
0.143	0.155135	0.172696	1.52E-01	1.83E-01	1.53E-01	1.71E-01	1.55E-01
0.142	0.151336	0.164677	1.48E-01	1.80E-01	1.49E-01	1.63E-01	1.52E-01
0.141	0.147537	0.158505	1.45E-01	1.76E-01	1.46E-01	1.57E-01	1.48E-01
0.138	0.143737	0.15418	1.41E-01	1.71E-01	1.42E-01	1.52E-01	1.44E-01
0.121	0.139938	0.151701	1.37E-01	1.65E-01	1.38E-01	1.50E-01	1.40E-01
0.127	0.102493	0.141165	9.96E-02	1.23E-01	1.01E-01	1.39E-01	1.02E-01
0.126	0.098579	0.124675	9.57E-02	1.21E-01	9.67E-02	1.23E-01	9.86E-02
0.125	0.094664	0.110031	9.18E-02	1.18E-01	9.28E-02	1.08E-01	9.49E-02
0.127	0.09075	0.097234	8.79E-02	1.14E-01	8.89E-02	9.54E-02	9.11E-02
0.119	0.086835	0.086284	8.40E-02	1.08E-01	8.50E-02	8.44E-02	8.73E-02
0.095	0.082921	0.07718	8.01E-02	1.02E-01	8.10E-02	7.53E-02	8.35E-02
0.091	0.046053	0.086744	4.32E-02	3.56E-02	4.42E-02	8.49E-02	4.57E-02
0.091	0.042023	0.063629	3.92E-02	3.36E-02	4.01E-02	6.18E-02	4.19E-02

0.091	0.037993	0.042361	3.51E-02	3.06E-02	3.61E-02	4.05E-02	3.81E-02
0.09	0.033963	0.022938	3.11E-02	2.65E-02	3.21E-02	2.11E-02	3.44E-02
0.075	0.029933	0.005363	2.71E-02	2.13E-02	2.81E-02	3.48E-03	3.06E-02
0.052	0.025903	-0.01037	2.30E-02	1.50E-02	2.40E-02	-1.22E-02	2.68E-02
0.317	0.323995	0.278457	3.21E-01	2.87E-01	3.28E-01	2.83E-01	3.27E-01
0.315	0.320427	0.281842	3.18E-01	2.85E-01	3.25E-01	2.86E-01	3.23E-01
0.314	0.316858	0.287074	3.14E-01	2.82E-01	3.21E-01	2.91E-01	3.19E-01
0.315	0.31329	0.294152	3.10E-01	2.78E-01	3.18E-01	2.98E-01	3.15E-01
0.314	0.309722	0.303077	3.07E-01	2.73E-01	3.14E-01	3.07E-01	3.12E-01
0.287	0.306153	0.313849	3.03E-01	2.67E-01	3.10E-01	3.18E-01	3.08E-01
0.288	0.295775	0.272412	2.93E-01	2.84E-01	3.00E-01	2.77E-01	2.98E-01
0.284	0.292149	0.272485	2.89E-01	2.82E-01	2.96E-01	2.77E-01	2.95E-01
0.289	0.288523	0.274404	2.86E-01	2.79E-01	2.93E-01	2.79E-01	2.91E-01
0.281	0.284897	0.27817	2.82E-01	2.75E-01	2.89E-01	2.82E-01	2.87E-01
0.269	0.281271	0.283782	2.78E-01	2.70E-01	2.86E-01	2.88E-01	2.83E-01
0.236	0.277644	0.291241	2.75E-01	2.63E-01	2.82E-01	2.96E-01	2.80E-01
0.239	0.267555	0.263111	2.65E-01	2.75E-01	2.72E-01	2.67E-01	2.70E-01
0.236	0.263871	0.259871	2.61E-01	2.73E-01	2.68E-01	2.64E-01	2.66E-01
0.235	0.260187	0.258478	2.57E-01	2.70E-01	2.65E-01	2.63E-01	2.63E-01
0.231	0.256503	0.258931	2.54E-01	2.66E-01	2.61E-01	2.63E-01	2.59E-01
0.214	0.252819	0.261231	2.50E-01	2.60E-01	2.57E-01	2.66E-01	2.55E-01
0.153	0.249136	0.265377	2.46E-01	2.54E-01	2.53E-01	2.70E-01	2.51E-01
0.155	0.211114	0.23474	2.08E-01	2.37E-01	2.15E-01	2.39E-01	2.13E-01
0.158	0.207315	0.224875	2.04E-01	2.35E-01	2.12E-01	2.29E-01	2.10E-01
0.159	0.203516	0.216857	2.01E-01	2.32E-01	2.08E-01	2.21E-01	2.06E-01
0.151	0.199716	0.210685	1.97E-01	2.28E-01	2.04E-01	2.15E-01	2.02E-01
0.143	0.195917	0.20636	1.93E-01	2.23E-01	2.00E-01	2.11E-01	1.98E-01
0.138	0.192118	0.203881	1.89E-01	2.17E-01	1.96E-01	2.08E-01	1.94E-01
0.118	0.154673	0.193345	1.52E-01	1.75E-01	1.59E-01	1.98E-01	1.57E-01
0.117	0.150759	0.176855	1.48E-01	1.73E-01	1.55E-01	1.81E-01	1.53E-01
0.116	0.146844	0.162211	1.44E-01	1.70E-01	1.51E-01	1.67E-01	1.49E-01
0.116	0.14293	0.149414	1.40E-01	1.66E-01	1.47E-01	1.54E-01	1.45E-01
0.105	0.139015	0.138464	1.36E-01	1.61E-01	1.43E-01	1.43E-01	1.42E-01
0.093	0.135101	0.12936	1.32E-01	1.54E-01	1.39E-01	1.34E-01	1.38E-01
0.081	0.098233	0.138924	9.54E-02	8.78E-02	1.03E-01	1.43E-01	9.99E-02
0.083	0.094203	0.115809	9.13E-02	8.58E-02	9.85E-02	1.20E-01	9.61E-02
0.081	0.090173	0.09454	8.73E-02	8.28E-02	9.45E-02	9.89E-02	9.23E-02
0.078	0.086143	0.075118	8.33E-02	7.87E-02	9.05E-02	7.94E-02	8.86E-02
0.078	0.082113	0.057543	7.93E-02	7.35E-02	8.64E-02	6.19E-02	8.48E-02
0.051	0.078083	0.041814	7.52E-02	6.72E-02	8.24E-02	4.61E-02	8.10E-02
0.214	0.261608	0.21607	2.59E-01	2.25E-01	2.64E-01	2.18E-01	2.62E-01
0.215	0.25804	0.219455	2.55E-01	2.23E-01	2.60E-01	2.22E-01	2.58E-01
0.214	0.254472	0.224687	2.52E-01	2.20E-01	2.57E-01	2.27E-01	2.55E-01
0.213	0.250903	0.231766	2.48E-01	2.16E-01	2.53E-01	2.34E-01	2.51E-01
0.211	0.247335	0.24069	2.44E-01	2.10E-01	2.50E-01	2.43E-01	2.47E-01
0.211	0.243766	0.251462	2.41E-01	2.04E-01	2.46E-01	2.54E-01	2.43E-01
0.187	0.233388	0.210025	2.31E-01	2.22E-01	2.36E-01	2.12E-01	2.34E-01
0.185	0.229762	0.210098	2.27E-01	2.20E-01	2.32E-01	2.13E-01	2.30E-01

0.183	0.226136	0.212017	2.23E-01	2.17E-01	2.29E-01	2.14E-01	2.26E-01
0.186	0.22251	0.215783	2.20E-01	2.12E-01	2.25E-01	2.18E-01	2.22E-01
0.186	0.218884	0.221395	2.16E-01	2.07E-01	2.21E-01	2.24E-01	2.19E-01
0.162	0.215258	0.228854	2.12E-01	2.01E-01	2.18E-01	2.31E-01	2.15E-01
0.165	0.205168	0.200724	2.02E-01	2.12E-01	2.08E-01	2.03E-01	2.05E-01
0.165	0.201484	0.197484	1.99E-01	2.10E-01	2.04E-01	2.00E-01	2.02E-01
0.163	0.1978	0.196091	1.95E-01	2.07E-01	2.00E-01	1.99E-01	1.98E-01
0.165	0.194116	0.196544	1.91E-01	2.03E-01	1.97E-01	1.99E-01	1.94E-01
0.159	0.190433	0.198844	1.88E-01	1.98E-01	1.93E-01	2.01E-01	1.90E-01
0.143	0.186749	0.20299	1.84E-01	1.92E-01	1.89E-01	2.05E-01	1.87E-01
0.143	0.148727	0.172354	1.46E-01	1.75E-01	1.51E-01	1.75E-01	1.49E-01
0.142	0.144928	0.162489	1.42E-01	1.73E-01	1.47E-01	1.65E-01	1.45E-01
0.141	0.141129	0.15447	1.38E-01	1.70E-01	1.44E-01	1.57E-01	1.41E-01
0.143	0.13733	0.148298	1.34E-01	1.66E-01	1.40E-01	1.51E-01	1.37E-01
0.142	0.13353	0.143973	1.31E-01	1.61E-01	1.36E-01	1.46E-01	1.34E-01
0.118	0.129731	0.141494	1.27E-01	1.54E-01	1.32E-01	1.44E-01	1.30E-01
0.119	0.092286	0.130958	8.94E-02	1.13E-01	9.47E-02	1.33E-01	9.19E-02
0.121	0.088372	0.114468	8.55E-02	1.11E-01	9.08E-02	1.17E-01	8.81E-02
0.123	0.084457	0.099824	8.16E-02	1.08E-01	8.69E-02	1.02E-01	8.44E-02
0.123	0.080543	0.087027	7.77E-02	1.03E-01	8.30E-02	8.94E-02	8.06E-02
0.121	0.076628	0.076077	7.38E-02	9.83E-02	7.91E-02	7.85E-02	7.68E-02
0.109	0.072714	0.066973	6.99E-02	9.20E-02	7.51E-02	6.94E-02	7.30E-02
0.094	0.035846	0.076537	3.30E-02	2.54E-02	3.83E-02	7.90E-02	3.52E-02
0.091	0.031816	0.053422	2.90E-02	2.34E-02	3.42E-02	5.58E-02	3.14E-02
0.085	0.027786	0.032154	2.49E-02	2.04E-02	3.02E-02	3.46E-02	2.76E-02
0.084	0.023756	0.012731	2.09E-02	1.63E-02	2.62E-02	1.52E-02	2.39E-02
0.083	0.019726	-0.00484	1.69E-02	1.11E-02	2.21E-02	-2.42E-03	2.01E-02
0.068	0.015696	-0.02057	1.28E-02	4.83E-03	1.81E-02	-1.82E-02	1.63E-02
0.307	0.287698	0.24216	2.85E-01	2.51E-01	2.79E-01	2.33E-01	2.88E-01
0.307	0.28413	0.245545	2.81E-01	2.49E-01	2.75E-01	2.36E-01	2.84E-01
0.306	0.280562	0.250777	2.78E-01	2.46E-01	2.71E-01	2.42E-01	2.80E-01
0.311	0.276993	0.257856	2.74E-01	2.42E-01	2.68E-01	2.49E-01	2.76E-01
0.305	0.273425	0.26678	2.71E-01	2.37E-01	2.64E-01	2.58E-01	2.73E-01
0.283	0.269856	0.277552	2.67E-01	2.30E-01	2.61E-01	2.68E-01	2.69E-01
0.263	0.259478	0.236115	2.57E-01	2.48E-01	2.50E-01	2.27E-01	2.59E-01
0.259	0.255852	0.236188	2.53E-01	2.46E-01	2.47E-01	2.27E-01	2.56E-01
0.264	0.252226	0.238107	2.49E-01	2.43E-01	2.43E-01	2.29E-01	2.52E-01
0.263	0.2486	0.241873	2.46E-01	2.39E-01	2.40E-01	2.33E-01	2.48E-01
0.258	0.244974	0.247485	2.42E-01	2.33E-01	2.36E-01	2.38E-01	2.44E-01
0.244	0.241348	0.254944	2.38E-01	2.27E-01	2.32E-01	2.46E-01	2.41E-01
0.219	0.231258	0.226814	2.28E-01	2.38E-01	2.22E-01	2.18E-01	2.31E-01
0.218	0.227574	0.223574	2.25E-01	2.36E-01	2.19E-01	2.15E-01	2.27E-01
0.221	0.22389	0.222181	2.21E-01	2.33E-01	2.15E-01	2.13E-01	2.23E-01
0.215	0.220206	0.222634	2.17E-01	2.29E-01	2.11E-01	2.14E-01	2.20E-01
0.207	0.216523	0.224934	2.14E-01	2.24E-01	2.07E-01	2.16E-01	2.16E-01
0.199	0.212839	0.22908	2.10E-01	2.18E-01	2.04E-01	2.20E-01	2.12E-01
0.152	0.174817	0.198443	1.72E-01	2.01E-01	1.66E-01	1.89E-01	1.74E-01
0.156	0.171018	0.188578	1.68E-01	1.99E-01	1.62E-01	1.80E-01	1.71E-01

0.148	0.167219	0.18056	1.64E-01	1.96E-01	1.58E-01	1.71E-01	1.67E-01
0.146	0.16342	0.174388	1.61E-01	1.92E-01	1.54E-01	1.65E-01	1.63E-01
0.144	0.15962	0.170063	1.57E-01	1.87E-01	1.51E-01	1.61E-01	1.59E-01
0.139	0.155821	0.167584	1.53E-01	1.80E-01	1.47E-01	1.59E-01	1.55E-01
0.119	0.118376	0.157048	1.16E-01	1.39E-01	1.09E-01	1.48E-01	1.18E-01
0.118	0.114462	0.140558	1.12E-01	1.37E-01	1.05E-01	1.31E-01	1.14E-01
0.119	0.110547	0.125914	1.08E-01	1.34E-01	1.01E-01	1.17E-01	1.10E-01
0.117	0.106633	0.113117	1.04E-01	1.30E-01	9.76E-02	1.04E-01	1.06E-01
0.114	0.102718	0.102167	9.99E-02	1.24E-01	9.36E-02	9.31E-02	1.02E-01
0.108	0.098804	0.093063	9.59E-02	1.18E-01	8.97E-02	8.40E-02	9.87E-02
0.091	0.061936	0.102627	5.91E-02	5.15E-02	5.29E-02	9.36E-02	6.08E-02
0.092	0.057906	0.079512	5.50E-02	4.95E-02	4.88E-02	7.04E-02	5.70E-02
0.093	0.053876	0.058244	5.10E-02	4.65E-02	4.48E-02	4.92E-02	5.33E-02
0.092	0.049846	0.038821	4.70E-02	4.24E-02	4.08E-02	2.97E-02	4.95E-02
0.091	0.045816	0.021246	4.30E-02	3.72E-02	3.67E-02	1.22E-02	4.57E-02
0.069	0.041786	0.005517	3.89E-02	3.09E-02	3.27E-02	-3.56E-03	4.20E-02
0.401	0.339878	0.29434	3.37E-01	3.03E-01	3.37E-01	2.91E-01	3.39E-01
0.398	0.33631	0.297725	3.33E-01	3.01E-01	3.33E-01	2.95E-01	3.35E-01
0.397	0.332741	0.302957	3.30E-01	2.98E-01	3.30E-01	3.00E-01	3.31E-01
0.399	0.329173	0.310035	3.26E-01	2.94E-01	3.26E-01	3.07E-01	3.28E-01
0.393	0.325605	0.31896	3.23E-01	2.89E-01	3.23E-01	3.16E-01	3.24E-01
0.371	0.322036	0.329732	3.19E-01	2.82E-01	3.19E-01	3.27E-01	3.20E-01
0.341	0.311658	0.288295	3.09E-01	3.00E-01	3.09E-01	2.85E-01	3.11E-01
0.333	0.308032	0.288368	3.05E-01	2.98E-01	3.05E-01	2.85E-01	3.07E-01
0.331	0.304406	0.290287	3.02E-01	2.95E-01	3.02E-01	2.87E-01	3.03E-01
0.33	0.30078	0.294053	2.98E-01	2.91E-01	2.98E-01	2.91E-01	2.99E-01
0.332	0.297153	0.299665	2.94E-01	2.86E-01	2.94E-01	2.97E-01	2.96E-01
0.302	0.293527	0.307124	2.91E-01	2.79E-01	2.91E-01	3.04E-01	2.92E-01
0.281	0.283438	0.278994	2.81E-01	2.91E-01	2.81E-01	2.76E-01	2.82E-01
0.278	0.279754	0.275754	2.77E-01	2.89E-01	2.77E-01	2.73E-01	2.79E-01
0.271	0.27607	0.274361	2.73E-01	2.86E-01	2.73E-01	2.71E-01	2.75E-01
0.279	0.272386	0.274814	2.70E-01	2.81E-01	2.70E-01	2.72E-01	2.71E-01
0.273	0.268702	0.277114	2.66E-01	2.76E-01	2.66E-01	2.74E-01	2.67E-01
0.255	0.265019	0.28126	2.62E-01	2.70E-01	2.62E-01	2.78E-01	2.63E-01
0.151	0.226997	0.250623	2.24E-01	2.53E-01	2.24E-01	2.48E-01	2.26E-01
0.162	0.223198	0.240758	2.20E-01	2.51E-01	2.20E-01	2.38E-01	2.22E-01
0.159	0.219399	0.23274	2.17E-01	2.48E-01	2.17E-01	2.30E-01	2.18E-01
0.157	0.215599	0.226568	2.13E-01	2.44E-01	2.13E-01	2.24E-01	2.14E-01
0.166	0.2118	0.222243	2.09E-01	2.39E-01	2.09E-01	2.19E-01	2.10E-01
0.148	0.208001	0.219764	2.05E-01	2.33E-01	2.05E-01	2.17E-01	2.07E-01
0.116	0.170556	0.209228	1.68E-01	1.91E-01	1.68E-01	2.06E-01	1.69E-01
0.121	0.166642	0.192738	1.64E-01	1.89E-01	1.64E-01	1.90E-01	1.65E-01
0.126	0.162727	0.178094	1.60E-01	1.86E-01	1.60E-01	1.75E-01	1.61E-01
0.121	0.158813	0.165297	1.56E-01	1.82E-01	1.56E-01	1.62E-01	1.58E-01
0.119	0.154898	0.154347	1.52E-01	1.77E-01	1.52E-01	1.51E-01	1.54E-01
0.114	0.150984	0.145243	1.48E-01	1.70E-01	1.48E-01	1.42E-01	1.50E-01
0.075	0.114116	0.154807	1.11E-01	1.04E-01	1.11E-01	1.52E-01	1.12E-01
0.091	0.110086	0.131692	1.07E-01	1.02E-01	1.07E-01	1.29E-01	1.08E-01

0.089	0.106056	0.110423	1.03E-01	9.86E-02	1.03E-01	1.08E-01	1.05E-01
0.083	0.102026	0.091001	9.92E-02	9.45E-02	9.91E-02	8.81E-02	1.01E-01
0.081	0.097996	0.073426	9.51E-02	8.94E-02	9.51E-02	7.05E-02	9.70E-02
0.069	0.093966	0.057697	9.11E-02	8.31E-02	9.11E-02	5.48E-02	9.33E-02
0.408	0.334405	0.288867	3.32E-01	2.98E-01	3.38E-01	2.93E-01	3.38E-01
0.401	0.330837	0.292252	3.28E-01	2.96E-01	3.34E-01	2.96E-01	3.34E-01
0.402	0.327269	0.297484	3.24E-01	2.93E-01	3.31E-01	3.01E-01	3.31E-01
0.401	0.3237	0.304562	3.21E-01	2.88E-01	3.27E-01	3.08E-01	3.27E-01
0.402	0.320132	0.313487	3.17E-01	2.83E-01	3.24E-01	3.17E-01	3.23E-01
0.378	0.316563	0.324259	3.14E-01	2.77E-01	3.20E-01	3.28E-01	3.19E-01
0.314	0.306185	0.282822	3.03E-01	2.94E-01	3.10E-01	2.86E-01	3.10E-01
0.315	0.302559	0.282895	3.00E-01	2.92E-01	3.06E-01	2.87E-01	3.06E-01
0.321	0.298933	0.284814	2.96E-01	2.89E-01	3.03E-01	2.88E-01	3.02E-01
0.322	0.295307	0.28858	2.92E-01	2.85E-01	2.99E-01	2.92E-01	2.99E-01
0.317	0.291681	0.294192	2.89E-01	2.80E-01	2.95E-01	2.98E-01	2.95E-01
0.298	0.288055	0.301651	2.85E-01	2.74E-01	2.92E-01	3.05E-01	2.91E-01
0.257	0.277965	0.273521	2.75E-01	2.85E-01	2.82E-01	2.77E-01	2.81E-01
0.258	0.274281	0.270281	2.71E-01	2.83E-01	2.78E-01	2.74E-01	2.78E-01
0.251	0.270597	0.268888	2.68E-01	2.80E-01	2.74E-01	2.73E-01	2.74E-01
0.258	0.266913	0.269341	2.64E-01	2.76E-01	2.71E-01	2.73E-01	2.70E-01
0.256	0.26323	0.271641	2.60E-01	2.71E-01	2.67E-01	2.75E-01	2.66E-01
0.239	0.259546	0.275787	2.57E-01	2.64E-01	2.63E-01	2.79E-01	2.63E-01
0.188	0.221524	0.24515	2.19E-01	2.48E-01	2.25E-01	2.49E-01	2.25E-01
0.181	0.217725	0.235285	2.15E-01	2.46E-01	2.21E-01	2.39E-01	2.21E-01
0.179	0.213926	0.227267	2.11E-01	2.43E-01	2.18E-01	2.31E-01	2.17E-01
0.178	0.210127	0.221095	2.07E-01	2.39E-01	2.14E-01	2.25E-01	2.13E-01
0.166	0.206327	0.21677	2.04E-01	2.33E-01	2.10E-01	2.20E-01	2.10E-01
0.159	0.202528	0.214291	2.00E-01	2.27E-01	2.06E-01	2.18E-01	2.06E-01
0.147	0.165083	0.203755	1.62E-01	1.85E-01	1.69E-01	2.07E-01	1.68E-01
0.146	0.161169	0.187265	1.58E-01	1.83E-01	1.65E-01	1.91E-01	1.64E-01
0.145	0.157254	0.172621	1.54E-01	1.80E-01	1.61E-01	1.76E-01	1.60E-01
0.145	0.15334	0.159824	1.51E-01	1.76E-01	1.57E-01	1.63E-01	1.57E-01
0.145	0.149425	0.148874	1.47E-01	1.71E-01	1.53E-01	1.53E-01	1.53E-01
0.131	0.145511	0.13977	1.43E-01	1.65E-01	1.49E-01	1.43E-01	1.49E-01
0.121	0.108643	0.149334	1.06E-01	9.82E-02	1.12E-01	1.53E-01	1.11E-01
0.122	0.104613	0.126219	1.02E-01	9.62E-02	1.08E-01	1.30E-01	1.07E-01
0.123	0.100583	0.104951	9.78E-02	9.32E-02	1.04E-01	1.09E-01	1.04E-01
0.121	0.096553	0.085528	9.37E-02	8.91E-02	1.00E-01	8.92E-02	1.00E-01
0.122	0.092523	0.067953	8.97E-02	8.39E-02	9.62E-02	7.16E-02	9.62E-02
0.088	0.088493	0.052224	8.57E-02	7.76E-02	9.21E-02	5.59E-02	9.24E-02
0.435	0.360495	0.314957	3.58E-01	3.24E-01	3.53E-01	3.07E-01	3.57E-01
0.432	0.356927	0.318342	3.54E-01	3.22E-01	3.49E-01	3.10E-01	3.53E-01
0.432	0.353358	0.323574	3.51E-01	3.19E-01	3.46E-01	3.16E-01	3.50E-01
0.432	0.34979	0.330652	3.47E-01	3.14E-01	3.42E-01	3.23E-01	3.46E-01
0.431	0.346222	0.339577	3.43E-01	3.09E-01	3.38E-01	3.32E-01	3.42E-01
0.428	0.342653	0.350349	3.40E-01	3.03E-01	3.35E-01	3.42E-01	3.38E-01
0.346	0.332275	0.308912	3.29E-01	3.20E-01	3.24E-01	3.01E-01	3.29E-01
0.349	0.328649	0.308985	3.26E-01	3.19E-01	3.21E-01	3.01E-01	3.25E-01

0.348	0.325023	0.310904	3.22E-01	3.15E-01	3.17E-01	3.03E-01	3.21E-01
0.347	0.321397	0.31467	3.19E-01	3.11E-01	3.14E-01	3.07E-01	3.18E-01
0.344	0.317771	0.320282	3.15E-01	3.06E-01	3.10E-01	3.12E-01	3.14E-01
0.329	0.314144	0.327741	3.11E-01	3.00E-01	3.06E-01	3.20E-01	3.10E-01
0.264	0.304055	0.299611	3.01E-01	3.11E-01	2.96E-01	2.92E-01	3.00E-01
0.265	0.300371	0.296371	2.98E-01	3.09E-01	2.93E-01	2.89E-01	2.97E-01
0.265	0.296687	0.294978	2.94E-01	3.06E-01	2.89E-01	2.87E-01	2.93E-01
0.265	0.293003	0.295431	2.90E-01	3.02E-01	2.85E-01	2.88E-01	2.89E-01
0.261	0.289319	0.297731	2.86E-01	2.97E-01	2.81E-01	2.90E-01	2.85E-01
0.231	0.285636	0.301877	2.83E-01	2.91E-01	2.78E-01	2.94E-01	2.82E-01
0.186	0.247614	0.27124	2.45E-01	2.74E-01	2.40E-01	2.63E-01	2.44E-01
0.181	0.243815	0.261375	2.41E-01	2.72E-01	2.36E-01	2.54E-01	2.40E-01
0.181	0.240016	0.253357	2.37E-01	2.69E-01	2.32E-01	2.46E-01	2.36E-01
0.179	0.236216	0.247185	2.33E-01	2.65E-01	2.28E-01	2.39E-01	2.32E-01
0.179	0.232417	0.24286	2.30E-01	2.59E-01	2.25E-01	2.35E-01	2.29E-01
0.148	0.228618	0.240381	2.26E-01	2.53E-01	2.21E-01	2.33E-01	2.25E-01
0.141	0.191173	0.229845	1.88E-01	2.11E-01	1.83E-01	2.22E-01	1.87E-01
0.138	0.187259	0.213355	1.84E-01	2.10E-01	1.79E-01	2.06E-01	1.83E-01
0.137	0.183344	0.198711	1.81E-01	2.06E-01	1.75E-01	1.91E-01	1.79E-01
0.136	0.17943	0.185914	1.77E-01	2.02E-01	1.72E-01	1.78E-01	1.76E-01
0.136	0.175515	0.174964	1.73E-01	1.97E-01	1.68E-01	1.67E-01	1.72E-01
0.118	0.171601	0.16586	1.69E-01	1.91E-01	1.64E-01	1.58E-01	1.68E-01
0.121	0.134733	0.175424	1.32E-01	1.24E-01	1.27E-01	1.68E-01	1.30E-01
0.117	0.130703	0.152309	1.28E-01	1.22E-01	1.23E-01	1.44E-01	1.26E-01
0.116	0.126673	0.13104	1.24E-01	1.19E-01	1.19E-01	1.23E-01	1.23E-01
0.115	0.122643	0.111618	1.20E-01	1.15E-01	1.15E-01	1.04E-01	1.19E-01
0.115	0.118613	0.094043	1.16E-01	1.10E-01	1.11E-01	8.62E-02	1.15E-01
0.087	0.114583	0.078314	1.12E-01	1.04E-01	1.07E-01	7.05E-02	1.11E-01
0.161	0.220766	0.175228	2.27E-01	1.84E-01	2.30E-01	1.85E-01	2.21E-01
0.159	0.217198	0.178613	2.24E-01	1.82E-01	2.27E-01	1.88E-01	2.17E-01
0.158	0.213629	0.183845	2.20E-01	1.79E-01	2.23E-01	1.93E-01	2.13E-01
0.155	0.210061	0.190923	2.17E-01	1.75E-01	2.20E-01	2.01E-01	2.09E-01
0.152	0.206493	0.199848	2.13E-01	1.70E-01	2.16E-01	2.09E-01	2.05E-01
0.154	0.202924	0.21062	2.09E-01	1.63E-01	2.13E-01	2.20E-01	2.02E-01
0.148	0.192546	0.169183	1.99E-01	1.81E-01	2.02E-01	1.79E-01	1.92E-01
0.147	0.18892	0.169256	1.95E-01	1.79E-01	1.99E-01	1.79E-01	1.88E-01
0.146	0.185294	0.171175	1.92E-01	1.76E-01	1.95E-01	1.81E-01	1.85E-01
0.144	0.181668	0.174941	1.88E-01	1.72E-01	1.91E-01	1.85E-01	1.81E-01
0.139	0.178042	0.180553	1.85E-01	1.66E-01	1.88E-01	1.90E-01	1.77E-01
0.134	0.174415	0.188012	1.81E-01	1.60E-01	1.84E-01	1.98E-01	1.73E-01
0.118	0.164326	0.159882	1.71E-01	1.71E-01	1.74E-01	1.70E-01	1.64E-01
0.119	0.160642	0.156642	1.67E-01	1.69E-01	1.70E-01	1.66E-01	1.60E-01
0.119	0.156958	0.155249	1.63E-01	1.66E-01	1.67E-01	1.65E-01	1.56E-01
0.119	0.153274	0.155702	1.60E-01	1.62E-01	1.63E-01	1.65E-01	1.52E-01
0.116	0.14959	0.158002	1.56E-01	1.57E-01	1.59E-01	1.68E-01	1.49E-01
0.099	0.145907	0.162148	1.52E-01	1.51E-01	1.56E-01	1.72E-01	1.45E-01
0.091	0.107885	0.131511	1.14E-01	1.34E-01	1.18E-01	1.41E-01	1.07E-01
0.095	0.104086	0.121646	1.11E-01	1.32E-01	1.14E-01	1.31E-01	1.03E-01

0.095	0.100287	0.113628	1.07E-01	1.29E-01	1.10E-01	1.23E-01	9.95E-02
0.096	0.096487	0.107456	1.03E-01	1.25E-01	1.06E-01	1.17E-01	9.58E-02
0.094	0.092688	0.103131	9.92E-02	1.20E-01	1.02E-01	1.13E-01	9.20E-02
0.069	0.088889	0.100652	9.54E-02	1.13E-01	9.85E-02	1.10E-01	8.82E-02
0.075	0.051444	0.090116	5.79E-02	7.17E-02	6.11E-02	9.97E-02	5.03E-02
0.065	0.04753	0.073626	5.40E-02	6.98E-02	5.72E-02	8.33E-02	4.66E-02
0.063	0.043615	0.058982	5.01E-02	6.67E-02	5.32E-02	6.86E-02	4.28E-02
0.063	0.039701	0.046185	4.62E-02	6.26E-02	4.93E-02	5.58E-02	3.90E-02
0.063	0.035786	0.035235	4.23E-02	5.74E-02	4.54E-02	4.49E-02	3.53E-02
0.039	0.031872	0.026131	3.83E-02	5.12E-02	4.15E-02	3.58E-02	3.15E-02
0.035	-0.005	0.035695	1.47E-03	-1.55E-02	4.63E-03	4.53E-02	-6.40E-03
0.034	-0.00903	0.01258	-2.56E-03	-1.74E-02	5.99E-04	2.22E-02	-1.02E-02
0.033	-0.01306	-0.00869	-6.59E-03	-2.05E-02	-3.43E-03	9.37E-04	-1.39E-02
0.033	-0.01709	-0.02811	-1.06E-02	-2.46E-02	-7.46E-03	-1.85E-02	-1.77E-02
0.031	-0.02112	-0.04569	-1.46E-02	-2.98E-02	-1.15E-02	-3.61E-02	-2.15E-02
0.023	-0.02515	-0.06142	-1.87E-02	-3.60E-02	-1.55E-02	-5.18E-02	-2.52E-02
0.223	0.246856	0.201318	2.53E-01	2.10E-01	2.45E-01	1.99E-01	2.48E-01
0.221	0.243288	0.204703	2.50E-01	2.08E-01	2.41E-01	2.03E-01	2.44E-01
0.221	0.239719	0.209935	2.46E-01	2.05E-01	2.38E-01	2.08E-01	2.40E-01
0.222	0.236151	0.217013	2.43E-01	2.01E-01	2.34E-01	2.15E-01	2.36E-01
0.219	0.232583	0.225938	2.39E-01	1.96E-01	2.31E-01	2.24E-01	2.33E-01
0.187	0.229014	0.23671	2.35E-01	1.89E-01	2.27E-01	2.35E-01	2.29E-01
0.193	0.218636	0.195273	2.25E-01	2.07E-01	2.17E-01	1.93E-01	2.19E-01
0.194	0.21501	0.195346	2.21E-01	2.05E-01	2.13E-01	1.93E-01	2.15E-01
0.191	0.211384	0.197265	2.18E-01	2.02E-01	2.10E-01	1.95E-01	2.12E-01
0.189	0.207758	0.201031	2.14E-01	1.98E-01	2.06E-01	1.99E-01	2.08E-01
0.186	0.204131	0.206643	2.11E-01	1.93E-01	2.02E-01	2.05E-01	2.04E-01
0.171	0.200505	0.214102	2.07E-01	1.86E-01	1.99E-01	2.12E-01	2.00E-01
0.165	0.190416	0.185972	1.97E-01	1.97E-01	1.89E-01	1.84E-01	1.91E-01
0.166	0.186732	0.182732	1.93E-01	1.96E-01	1.85E-01	1.81E-01	1.87E-01
0.166	0.183048	0.181339	1.90E-01	1.92E-01	1.81E-01	1.79E-01	1.83E-01
0.165	0.179364	0.181792	1.86E-01	1.88E-01	1.77E-01	1.80E-01	1.80E-01
0.159	0.17568	0.184092	1.82E-01	1.83E-01	1.74E-01	1.82E-01	1.76E-01
0.143	0.171997	0.188238	1.78E-01	1.77E-01	1.70E-01	1.86E-01	1.72E-01
0.144	0.133975	0.157601	1.40E-01	1.60E-01	1.32E-01	1.56E-01	1.34E-01
0.143	0.130176	0.147736	1.37E-01	1.58E-01	1.28E-01	1.46E-01	1.30E-01
0.142	0.126377	0.139718	1.33E-01	1.55E-01	1.25E-01	1.38E-01	1.27E-01
0.141	0.122577	0.133546	1.29E-01	1.51E-01	1.21E-01	1.32E-01	1.23E-01
0.138	0.118778	0.129221	1.25E-01	1.46E-01	1.17E-01	1.27E-01	1.19E-01
0.121	0.114979	0.126742	1.21E-01	1.40E-01	1.13E-01	1.25E-01	1.15E-01
0.127	0.077534	0.116206	8.40E-02	9.78E-02	7.57E-02	1.14E-01	7.74E-02
0.126	0.07362	0.099716	8.01E-02	9.59E-02	7.17E-02	9.78E-02	7.37E-02
0.125	0.069705	0.085072	7.62E-02	9.28E-02	6.78E-02	8.32E-02	6.99E-02
0.127	0.065791	0.072275	7.23E-02	8.87E-02	6.39E-02	7.04E-02	6.61E-02
0.119	0.061876	0.061324	6.83E-02	8.35E-02	6.00E-02	5.95E-02	6.24E-02
0.095	0.057962	0.05222	6.44E-02	7.73E-02	5.61E-02	5.04E-02	5.86E-02
0.091	0.021093	0.061785	2.76E-02	1.06E-02	1.92E-02	5.99E-02	2.07E-02
0.091	0.017064	0.03867	2.35E-02	8.66E-03	1.52E-02	3.68E-02	1.69E-02

0.091	0.013034	0.017401	1.95E-02	5.62E-03	1.12E-02	1.55E-02	1.32E-02
0.09	0.009004	-0.00202	1.55E-02	1.51E-03	7.13E-03	-3.89E-03	9.40E-03
0.075	0.004974	-0.0196	1.14E-02	-3.67E-03	3.10E-03	-2.15E-02	5.63E-03
0.052	0.000944	-0.03533	7.42E-03	-9.92E-03	-9.26E-04	-3.72E-02	1.85E-03
0.31	0.299036	0.253498	3.06E-01	2.62E-01	3.03E-01	2.58E-01	3.02E-01
0.312	0.295468	0.256883	3.02E-01	2.60E-01	3.00E-01	2.61E-01	2.98E-01
0.311	0.291899	0.262115	2.98E-01	2.57E-01	2.96E-01	2.66E-01	2.94E-01
0.309	0.288331	0.269193	2.95E-01	2.53E-01	2.93E-01	2.74E-01	2.91E-01
0.309	0.284762	0.278118	2.91E-01	2.48E-01	2.89E-01	2.82E-01	2.87E-01
0.306	0.281194	0.288889	2.88E-01	2.42E-01	2.86E-01	2.93E-01	2.83E-01
0.284	0.270816	0.247453	2.77E-01	2.59E-01	2.75E-01	2.52E-01	2.73E-01
0.286	0.26719	0.247526	2.74E-01	2.57E-01	2.72E-01	2.52E-01	2.70E-01
0.278	0.263564	0.249445	2.70E-01	2.54E-01	2.68E-01	2.54E-01	2.66E-01
0.266	0.259937	0.253211	2.66E-01	2.50E-01	2.64E-01	2.58E-01	2.62E-01
0.261	0.256311	0.258823	2.63E-01	2.45E-01	2.61E-01	2.63E-01	2.58E-01
0.248	0.252685	0.266282	2.59E-01	2.38E-01	2.57E-01	2.71E-01	2.55E-01
0.186	0.242595	0.238152	2.49E-01	2.50E-01	2.47E-01	2.42E-01	2.45E-01
0.181	0.238912	0.234912	2.45E-01	2.48E-01	2.43E-01	2.39E-01	2.41E-01
0.183	0.235228	0.233519	2.42E-01	2.45E-01	2.40E-01	2.38E-01	2.38E-01
0.186	0.231544	0.233972	2.38E-01	2.41E-01	2.36E-01	2.38E-01	2.34E-01
0.185	0.22786	0.236272	2.34E-01	2.35E-01	2.32E-01	2.41E-01	2.30E-01
0.172	0.224176	0.240418	2.31E-01	2.29E-01	2.29E-01	2.45E-01	2.26E-01
0.142	0.186155	0.209781	1.93E-01	2.12E-01	1.90E-01	2.14E-01	1.88E-01
0.141	0.182356	0.199916	1.89E-01	2.10E-01	1.87E-01	2.04E-01	1.85E-01
0.136	0.178556	0.191898	1.85E-01	2.07E-01	1.83E-01	1.96E-01	1.81E-01
0.139	0.174757	0.185726	1.81E-01	2.03E-01	1.79E-01	1.90E-01	1.77E-01
0.139	0.170958	0.1814	1.77E-01	1.98E-01	1.75E-01	1.86E-01	1.73E-01
0.134	0.167159	0.178922	1.74E-01	1.92E-01	1.71E-01	1.83E-01	1.70E-01
0.109	0.129714	0.168386	1.36E-01	1.50E-01	1.34E-01	1.73E-01	1.32E-01
0.112	0.125799	0.151895	1.32E-01	1.48E-01	1.30E-01	1.56E-01	1.28E-01
0.111	0.121885	0.137252	1.28E-01	1.45E-01	1.26E-01	1.42E-01	1.24E-01
0.111	0.11797	0.124455	1.24E-01	1.41E-01	1.22E-01	1.29E-01	1.20E-01
0.112	0.114056	0.113504	1.21E-01	1.36E-01	1.18E-01	1.18E-01	1.17E-01
0.094	0.110141	0.1044	1.17E-01	1.29E-01	1.14E-01	1.09E-01	1.13E-01
0.081	0.073273	0.113965	7.97E-02	6.28E-02	7.76E-02	1.18E-01	7.49E-02
0.076	0.069243	0.09085	7.57E-02	6.08E-02	7.36E-02	9.52E-02	7.11E-02
0.076	0.065214	0.069581	7.17E-02	5.78E-02	6.95E-02	7.39E-02	6.74E-02
0.075	0.061184	0.050159	6.77E-02	5.37E-02	6.55E-02	5.45E-02	6.36E-02
0.074	0.057154	0.032583	6.36E-02	4.85E-02	6.15E-02	3.69E-02	5.98E-02
0.051	0.053124	0.016854	5.96E-02	4.23E-02	5.75E-02	2.12E-02	5.61E-02
0.22	0.236649	0.191111	2.43E-01	2.00E-01	2.39E-01	1.94E-01	2.37E-01
0.217	0.233081	0.194496	2.40E-01	1.98E-01	2.36E-01	1.97E-01	2.33E-01
0.215	0.229512	0.199728	2.36E-01	1.95E-01	2.32E-01	2.02E-01	2.30E-01
0.215	0.225944	0.206806	2.32E-01	1.91E-01	2.28E-01	2.09E-01	2.26E-01
0.214	0.222376	0.215731	2.29E-01	1.85E-01	2.25E-01	2.18E-01	2.22E-01
0.208	0.218807	0.226503	2.25E-01	1.79E-01	2.21E-01	2.29E-01	2.18E-01
0.195	0.208429	0.185066	2.15E-01	1.97E-01	2.11E-01	1.87E-01	2.09E-01
0.194	0.204803	0.185139	2.11E-01	1.95E-01	2.07E-01	1.88E-01	2.05E-01

0.193	0.201177	0.187058	2.08E-01	1.92E-01	2.04E-01	1.89E-01	2.01E-01
0.188	0.197551	0.190824	2.04E-01	1.88E-01	2.00E-01	1.93E-01	1.97E-01
0.179	0.193924	0.196436	2.00E-01	1.82E-01	1.96E-01	1.99E-01	1.94E-01
0.176	0.190298	0.203895	1.97E-01	1.76E-01	1.93E-01	2.06E-01	1.90E-01
0.179	0.180209	0.175765	1.87E-01	1.87E-01	1.83E-01	1.78E-01	1.80E-01
0.181	0.176525	0.172525	1.83E-01	1.85E-01	1.79E-01	1.75E-01	1.77E-01
0.175	0.172841	0.171132	1.79E-01	1.82E-01	1.75E-01	1.74E-01	1.73E-01
0.168	0.169157	0.171585	1.76E-01	1.78E-01	1.72E-01	1.74E-01	1.69E-01
0.168	0.165473	0.173885	1.72E-01	1.73E-01	1.68E-01	1.76E-01	1.65E-01
0.15	0.16179	0.178031	1.68E-01	1.67E-01	1.64E-01	1.80E-01	1.62E-01
0.119	0.123768	0.147394	1.30E-01	1.50E-01	1.26E-01	1.50E-01	1.24E-01
0.12	0.119969	0.137529	1.26E-01	1.48E-01	1.22E-01	1.40E-01	1.20E-01
0.119	0.11617	0.129511	1.23E-01	1.45E-01	1.19E-01	1.32E-01	1.16E-01
0.119	0.11237	0.123339	1.19E-01	1.41E-01	1.15E-01	1.26E-01	1.12E-01
0.118	0.108571	0.119014	1.15E-01	1.36E-01	1.11E-01	1.21E-01	1.09E-01
0.102	0.104772	0.116535	1.11E-01	1.29E-01	1.07E-01	1.19E-01	1.05E-01
0.099	0.067327	0.105999	7.38E-02	8.76E-02	6.98E-02	1.08E-01	6.69E-02
0.105	0.063413	0.089509	6.99E-02	8.57E-02	6.58E-02	9.19E-02	6.32E-02
0.102	0.059498	0.074865	6.60E-02	8.26E-02	6.19E-02	7.73E-02	5.94E-02
0.103	0.055584	0.062068	6.21E-02	7.85E-02	5.80E-02	6.45E-02	5.56E-02
0.104	0.051669	0.051118	5.81E-02	7.33E-02	5.41E-02	5.35E-02	5.19E-02
0.081	0.047755	0.042014	5.42E-02	6.71E-02	5.02E-02	4.44E-02	4.81E-02
0.072	0.010886	0.051578	1.74E-02	4.18E-04	1.33E-02	5.40E-02	1.02E-02
0.068	0.006857	0.028463	1.33E-02	-1.55E-03	9.29E-03	3.09E-02	6.44E-03
0.066	0.002827	0.007194	9.30E-03	-4.58E-03	5.26E-03	9.62E-03	2.67E-03
0.064	-0.0012	-0.01223	5.27E-03	-8.69E-03	1.23E-03	-9.80E-03	-1.10E-03
0.061	-0.00523	-0.0298	1.24E-03	-1.39E-02	-2.80E-03	-2.74E-02	-4.87E-03
0.055	-0.00926	-0.04553	-2.79E-03	-2.01E-02	-6.83E-03	-4.31E-02	-8.64E-03
0.31	0.262739	0.217201	2.69E-01	2.26E-01	2.54E-01	2.08E-01	2.63E-01
0.312	0.259171	0.220586	2.66E-01	2.24E-01	2.50E-01	2.12E-01	2.59E-01
0.311	0.255602	0.225818	2.62E-01	2.21E-01	2.47E-01	2.17E-01	2.55E-01
0.311	0.252034	0.232896	2.59E-01	2.17E-01	2.43E-01	2.24E-01	2.51E-01
0.308	0.248465	0.241821	2.55E-01	2.12E-01	2.39E-01	2.33E-01	2.48E-01
0.275	0.244897	0.252592	2.51E-01	2.05E-01	2.36E-01	2.44E-01	2.44E-01
0.248	0.234519	0.211156	2.41E-01	2.23E-01	2.25E-01	2.02E-01	2.34E-01
0.247	0.230893	0.211229	2.37E-01	2.21E-01	2.22E-01	2.02E-01	2.31E-01
0.246	0.227267	0.213148	2.34E-01	2.18E-01	2.18E-01	2.04E-01	2.27E-01
0.245	0.223641	0.216914	2.30E-01	2.14E-01	2.15E-01	2.08E-01	2.23E-01
0.238	0.220014	0.222526	2.26E-01	2.08E-01	2.11E-01	2.13E-01	2.19E-01
0.231	0.216388	0.229985	2.23E-01	2.02E-01	2.07E-01	2.21E-01	2.16E-01
0.206	0.206298	0.201855	2.13E-01	2.13E-01	1.97E-01	1.93E-01	2.06E-01
0.205	0.202615	0.198615	2.09E-01	2.11E-01	1.94E-01	1.90E-01	2.02E-01
0.204	0.198931	0.197222	2.05E-01	2.08E-01	1.90E-01	1.88E-01	1.99E-01
0.204	0.195247	0.197675	2.02E-01	2.04E-01	1.86E-01	1.89E-01	1.95E-01
0.201	0.191563	0.199975	1.98E-01	1.99E-01	1.82E-01	1.91E-01	1.91E-01
0.188	0.18788	0.204121	1.94E-01	1.93E-01	1.79E-01	1.95E-01	1.87E-01
0.155	0.149858	0.173484	1.56E-01	1.76E-01	1.41E-01	1.64E-01	1.49E-01
0.148	0.146059	0.163619	1.53E-01	1.74E-01	1.37E-01	1.55E-01	1.46E-01

0.156	0.142259	0.155601	1.49E-01	1.71E-01	1.33E-01	1.47E-01	1.42E-01
0.157	0.13846	0.149429	1.45E-01	1.67E-01	1.29E-01	1.40E-01	1.38E-01
0.148	0.134661	0.145104	1.41E-01	1.62E-01	1.26E-01	1.36E-01	1.34E-01
0.143	0.130862	0.142625	1.37E-01	1.55E-01	1.22E-01	1.34E-01	1.30E-01
0.116	0.093417	0.132089	9.99E-02	1.14E-01	8.44E-02	1.23E-01	9.26E-02
0.116	0.089503	0.115599	9.60E-02	1.12E-01	8.04E-02	1.07E-01	8.88E-02
0.116	0.085588	0.100955	9.21E-02	1.09E-01	7.65E-02	9.19E-02	8.50E-02
0.112	0.081674	0.088158	8.82E-02	1.05E-01	7.26E-02	7.91E-02	8.13E-02
0.111	0.077759	0.077207	8.42E-02	9.94E-02	6.87E-02	6.81E-02	7.75E-02
0.098	0.073845	0.068103	8.03E-02	9.32E-02	6.48E-02	5.90E-02	7.37E-02
0.078	0.036976	0.077668	4.35E-02	2.65E-02	2.79E-02	6.86E-02	3.59E-02
0.088	0.032947	0.054553	3.94E-02	2.45E-02	2.39E-02	4.55E-02	3.21E-02
0.086	0.028917	0.033284	3.54E-02	2.15E-02	1.99E-02	2.42E-02	2.83E-02
0.084	0.024887	0.013862	3.14E-02	1.74E-02	1.58E-02	4.80E-03	2.45E-02
0.083	0.020857	-0.00371	2.73E-02	1.22E-02	1.18E-02	-1.28E-02	2.08E-02
0.055	0.016827	-0.01944	2.33E-02	5.96E-03	7.76E-03	-2.85E-02	1.70E-02
0.421	0.314919	0.269381	3.21E-01	2.78E-01	3.12E-01	2.67E-01	3.14E-01
0.418	0.311351	0.272766	3.18E-01	2.76E-01	3.08E-01	2.70E-01	3.10E-01
0.417	0.307782	0.277998	3.14E-01	2.73E-01	3.05E-01	2.75E-01	3.07E-01
0.404	0.304214	0.285076	3.11E-01	2.69E-01	3.01E-01	2.82E-01	3.03E-01
0.401	0.300645	0.294001	3.07E-01	2.64E-01	2.98E-01	2.91E-01	2.99E-01
0.387	0.297077	0.304772	3.04E-01	2.57E-01	2.94E-01	3.02E-01	2.95E-01
0.311	0.286699	0.263336	2.93E-01	2.75E-01	2.84E-01	2.60E-01	2.86E-01
0.308	0.283073	0.263409	2.90E-01	2.73E-01	2.80E-01	2.61E-01	2.82E-01
0.312	0.279446	0.265328	2.86E-01	2.70E-01	2.77E-01	2.62E-01	2.78E-01
0.305	0.27582	0.269094	2.82E-01	2.66E-01	2.73E-01	2.66E-01	2.74E-01
0.296	0.272194	0.274706	2.79E-01	2.61E-01	2.69E-01	2.72E-01	2.71E-01
0.284	0.268568	0.282165	2.75E-01	2.54E-01	2.66E-01	2.79E-01	2.67E-01
0.256	0.258478	0.254035	2.65E-01	2.66E-01	2.56E-01	2.51E-01	2.57E-01
0.255	0.254795	0.250795	2.61E-01	2.64E-01	2.52E-01	2.48E-01	2.54E-01
0.254	0.251111	0.249402	2.58E-01	2.61E-01	2.48E-01	2.47E-01	2.50E-01
0.255	0.247427	0.249855	2.54E-01	2.56E-01	2.45E-01	2.47E-01	2.46E-01
0.251	0.243743	0.252155	2.50E-01	2.51E-01	2.41E-01	2.49E-01	2.42E-01
0.237	0.240059	0.256301	2.47E-01	2.45E-01	2.37E-01	2.53E-01	2.38E-01
0.153	0.202038	0.225664	2.09E-01	2.28E-01	1.99E-01	2.23E-01	2.01E-01
0.148	0.198239	0.215799	2.05E-01	2.26E-01	1.95E-01	2.13E-01	1.97E-01
0.157	0.194439	0.207781	2.01E-01	2.23E-01	1.92E-01	2.05E-01	1.93E-01
0.149	0.19064	0.201609	1.97E-01	2.19E-01	1.88E-01	1.99E-01	1.89E-01
0.151	0.186841	0.197283	1.93E-01	2.14E-01	1.84E-01	1.94E-01	1.86E-01
0.126	0.183042	0.194805	1.90E-01	2.08E-01	1.80E-01	1.92E-01	1.82E-01
0.111	0.145597	0.184268	1.52E-01	1.66E-01	1.43E-01	1.81E-01	1.44E-01
0.112	0.141682	0.167778	1.48E-01	1.64E-01	1.39E-01	1.65E-01	1.40E-01
0.11	0.137768	0.153135	1.44E-01	1.61E-01	1.35E-01	1.50E-01	1.36E-01
0.111	0.133853	0.140338	1.40E-01	1.57E-01	1.31E-01	1.37E-01	1.33E-01
0.112	0.129939	0.129387	1.36E-01	1.52E-01	1.27E-01	1.27E-01	1.29E-01
0.101	0.126024	0.120283	1.33E-01	1.45E-01	1.23E-01	1.17E-01	1.25E-01
0.075	0.089156	0.129848	9.56E-02	7.87E-02	8.63E-02	1.27E-01	8.72E-02
0.069	0.085126	0.106733	9.16E-02	7.67E-02	8.23E-02	1.04E-01	8.34E-02

0.075	0.081097	0.085464	8.76E-02	7.37E-02	7.82E-02	8.26E-02	7.96E-02
0.074	0.077067	0.066042	8.35E-02	6.96E-02	7.42E-02	6.32E-02	7.58E-02
0.073	0.073037	0.048466	7.95E-02	6.44E-02	7.02E-02	4.56E-02	7.21E-02
0.071	0.069007	0.032737	7.55E-02	5.81E-02	6.61E-02	2.99E-02	6.83E-02
0.401	0.309446	0.263908	3.16E-01	2.73E-01	3.13E-01	2.68E-01	3.13E-01
0.402	0.305878	0.267293	3.12E-01	2.71E-01	3.10E-01	2.71E-01	3.09E-01
0.399	0.302309	0.272525	3.09E-01	2.68E-01	3.06E-01	2.76E-01	3.06E-01
0.395	0.298741	0.279603	3.05E-01	2.63E-01	3.02E-01	2.83E-01	3.02E-01
0.398	0.295172	0.288528	3.02E-01	2.58E-01	2.99E-01	2.92E-01	2.98E-01
0.384	0.291604	0.299299	2.98E-01	2.52E-01	2.95E-01	3.03E-01	2.94E-01
0.291	0.281226	0.257863	2.88E-01	2.69E-01	2.85E-01	2.62E-01	2.85E-01
0.295	0.2776	0.257936	2.84E-01	2.67E-01	2.81E-01	2.62E-01	2.81E-01
0.299	0.273974	0.259855	2.80E-01	2.64E-01	2.78E-01	2.64E-01	2.77E-01
0.296	0.270348	0.263621	2.77E-01	2.60E-01	2.74E-01	2.67E-01	2.74E-01
0.287	0.266721	0.269233	2.73E-01	2.55E-01	2.70E-01	2.73E-01	2.70E-01
0.261	0.263095	0.276692	2.70E-01	2.49E-01	2.67E-01	2.80E-01	2.66E-01
0.231	0.253005	0.248562	2.60E-01	2.60E-01	2.57E-01	2.52E-01	2.56E-01
0.229	0.249322	0.245322	2.56E-01	2.58E-01	2.53E-01	2.49E-01	2.53E-01
0.228	0.245638	0.243929	2.52E-01	2.55E-01	2.49E-01	2.48E-01	2.49E-01
0.224	0.241954	0.244382	2.48E-01	2.51E-01	2.46E-01	2.48E-01	2.45E-01
0.224	0.23827	0.246682	2.45E-01	2.46E-01	2.42E-01	2.50E-01	2.41E-01
0.201	0.234587	0.250828	2.41E-01	2.40E-01	2.38E-01	2.54E-01	2.38E-01
0.152	0.196565	0.220191	2.03E-01	2.23E-01	2.00E-01	2.24E-01	2.00E-01
0.149	0.192766	0.210326	1.99E-01	2.21E-01	1.96E-01	2.14E-01	1.96E-01
0.151	0.188966	0.202308	1.95E-01	2.18E-01	1.93E-01	2.06E-01	1.92E-01
0.152	0.185167	0.196136	1.92E-01	2.14E-01	1.89E-01	2.00E-01	1.88E-01
0.148	0.181368	0.191811	1.88E-01	2.08E-01	1.85E-01	1.95E-01	1.85E-01
0.135	0.177569	0.189332	1.84E-01	2.02E-01	1.81E-01	1.93E-01	1.81E-01
0.125	0.140124	0.178796	1.47E-01	1.60E-01	1.44E-01	1.82E-01	1.43E-01
0.128	0.13621	0.162306	1.43E-01	1.58E-01	1.40E-01	1.66E-01	1.39E-01
0.132	0.132295	0.147662	1.39E-01	1.55E-01	1.36E-01	1.51E-01	1.36E-01
0.124	0.128381	0.134865	1.35E-01	1.51E-01	1.32E-01	1.39E-01	1.32E-01
0.116	0.124466	0.123914	1.31E-01	1.46E-01	1.28E-01	1.28E-01	1.28E-01
0.109	0.120552	0.11481	1.27E-01	1.40E-01	1.24E-01	1.18E-01	1.24E-01
0.091	0.083683	0.124375	9.02E-02	7.32E-02	8.73E-02	1.28E-01	8.63E-02
0.088	0.079654	0.10126	8.62E-02	7.12E-02	8.33E-02	1.05E-01	8.25E-02
0.085	0.075624	0.079991	8.21E-02	6.82E-02	7.93E-02	8.36E-02	7.88E-02
0.086	0.071594	0.060569	7.81E-02	6.41E-02	7.52E-02	6.42E-02	7.50E-02
0.079	0.067564	0.042994	7.41E-02	5.89E-02	7.12E-02	4.66E-02	7.12E-02
0.063	0.063534	0.027264	7.00E-02	5.27E-02	6.72E-02	3.09E-02	6.75E-02
0.429	0.335536	0.289998	3.42E-01	2.99E-01	3.28E-01	2.82E-01	3.32E-01
0.428	0.331968	0.293383	3.38E-01	2.97E-01	3.24E-01	2.86E-01	3.28E-01
0.428	0.328399	0.298615	3.35E-01	2.94E-01	3.21E-01	2.91E-01	3.25E-01
0.427	0.324831	0.305693	3.31E-01	2.90E-01	3.17E-01	2.98E-01	3.21E-01
0.424	0.321262	0.314618	3.28E-01	2.84E-01	3.13E-01	3.07E-01	3.17E-01
0.414	0.317694	0.325389	3.24E-01	2.78E-01	3.10E-01	3.18E-01	3.13E-01
0.333	0.307316	0.283953	3.14E-01	2.96E-01	2.99E-01	2.76E-01	3.04E-01
0.336	0.30369	0.284026	3.10E-01	2.94E-01	2.96E-01	2.76E-01	3.00E-01

0.335	0.300064	0.285945	3.07E-01	2.91E-01	2.92E-01	2.78E-01	2.96E-01
0.331	0.296437	0.289711	3.03E-01	2.86E-01	2.89E-01	2.82E-01	2.93E-01
0.33	0.292811	0.295323	2.99E-01	2.81E-01	2.85E-01	2.87E-01	2.89E-01
0.298	0.289185	0.302782	2.96E-01	2.75E-01	2.81E-01	2.95E-01	2.85E-01
0.237	0.279095	0.274652	2.86E-01	2.86E-01	2.71E-01	2.67E-01	2.75E-01
0.237	0.275412	0.271412	2.82E-01	2.84E-01	2.68E-01	2.64E-01	2.72E-01
0.238	0.271728	0.270019	2.78E-01	2.81E-01	2.64E-01	2.62E-01	2.68E-01
0.239	0.268044	0.270472	2.75E-01	2.77E-01	2.60E-01	2.63E-01	2.64E-01
0.233	0.26436	0.272772	2.71E-01	2.72E-01	2.57E-01	2.65E-01	2.60E-01
0.211	0.260676	0.276918	2.67E-01	2.66E-01	2.53E-01	2.69E-01	2.57E-01
0.156	0.222655	0.246281	2.29E-01	2.49E-01	2.15E-01	2.38E-01	2.19E-01
0.156	0.218856	0.236416	2.25E-01	2.47E-01	2.11E-01	2.29E-01	2.15E-01
0.155	0.215056	0.228398	2.22E-01	2.44E-01	2.07E-01	2.21E-01	2.11E-01
0.152	0.211257	0.222226	2.18E-01	2.40E-01	2.03E-01	2.14E-01	2.07E-01
0.151	0.207458	0.2179	2.14E-01	2.35E-01	2.00E-01	2.10E-01	2.04E-01
0.137	0.203659	0.215422	2.10E-01	2.28E-01	1.96E-01	2.08E-01	2.00E-01
0.109	0.166214	0.204886	1.73E-01	1.87E-01	1.58E-01	1.97E-01	1.62E-01
0.107	0.1623	0.188395	1.69E-01	1.85E-01	1.54E-01	1.81E-01	1.58E-01
0.106	0.158385	0.173752	1.65E-01	1.82E-01	1.51E-01	1.66E-01	1.54E-01
0.106	0.15447	0.160955	1.61E-01	1.77E-01	1.47E-01	1.53E-01	1.51E-01
0.102	0.150556	0.150004	1.57E-01	1.72E-01	1.43E-01	1.42E-01	1.47E-01
0.088	0.146641	0.1409	1.53E-01	1.66E-01	1.39E-01	1.33E-01	1.43E-01
0.077	0.109773	0.150465	1.16E-01	9.93E-02	1.02E-01	1.43E-01	1.05E-01
0.075	0.105743	0.12735	1.12E-01	9.73E-02	9.79E-02	1.20E-01	1.02E-01
0.074	0.101714	0.106081	1.08E-01	9.43E-02	9.39E-02	9.82E-02	9.78E-02
0.071	0.097684	0.086659	1.04E-01	9.02E-02	8.98E-02	7.88E-02	9.40E-02
0.071	0.093654	0.069083	1.00E-01	8.50E-02	8.58E-02	6.12E-02	9.02E-02
0.052	0.089624	0.053354	9.61E-02	7.88E-02	8.18E-02	4.55E-02	8.65E-02
0.148	0.204127	0.158589	1.99E-01	1.67E-01	2.14E-01	1.68E-01	2.04E-01
0.154	0.200558	0.161974	1.96E-01	1.65E-01	2.10E-01	1.72E-01	2.00E-01
0.151	0.19699	0.167206	1.92E-01	1.62E-01	2.07E-01	1.77E-01	1.96E-01
0.152	0.193422	0.174284	1.89E-01	1.58E-01	2.03E-01	1.84E-01	1.93E-01
0.148	0.189853	0.183209	1.85E-01	1.53E-01	1.99E-01	1.93E-01	1.89E-01
0.137	0.186285	0.19398	1.82E-01	1.47E-01	1.96E-01	2.04E-01	1.85E-01
0.112	0.175906	0.152544	1.71E-01	1.64E-01	1.86E-01	1.62E-01	1.76E-01
0.114	0.17228	0.152616	1.68E-01	1.62E-01	1.82E-01	1.62E-01	1.72E-01
0.111	0.168654	0.154536	1.64E-01	1.59E-01	1.78E-01	1.64E-01	1.68E-01
0.109	0.165028	0.158301	1.60E-01	1.55E-01	1.75E-01	1.68E-01	1.64E-01
0.101	0.161402	0.163914	1.57E-01	1.50E-01	1.71E-01	1.74E-01	1.60E-01
0.088	0.157776	0.171372	1.53E-01	1.44E-01	1.67E-01	1.81E-01	1.57E-01
0.089	0.147686	0.143243	1.43E-01	1.55E-01	1.57E-01	1.53E-01	1.47E-01
0.093	0.144002	0.140003	1.39E-01	1.53E-01	1.54E-01	1.50E-01	1.43E-01
0.081	0.140319	0.138609	1.36E-01	1.50E-01	1.50E-01	1.48E-01	1.40E-01
0.082	0.136635	0.139063	1.32E-01	1.46E-01	1.46E-01	1.49E-01	1.36E-01
0.081	0.132951	0.141362	1.28E-01	1.40E-01	1.43E-01	1.51E-01	1.32E-01
0.065	0.129267	0.145509	1.25E-01	1.34E-01	1.39E-01	1.55E-01	1.28E-01
0.061	0.091245	0.114872	8.66E-02	1.17E-01	1.01E-01	1.25E-01	9.04E-02
0.072	0.087446	0.105007	8.28E-02	1.15E-01	9.71E-02	1.15E-01	8.67E-02

0.059	0.083647	0.096988	7.90E-02	1.12E-01	9.33E-02	1.07E-01	8.29E-02
0.058	0.079848	0.090817	7.52E-02	1.08E-01	8.95E-02	1.00E-01	7.91E-02
0.061	0.076049	0.086491	7.14E-02	1.03E-01	8.57E-02	9.61E-02	7.53E-02
0.047	0.07225	0.084012	6.76E-02	9.68E-02	8.19E-02	9.36E-02	7.16E-02
0.038	0.034805	0.073476	3.01E-02	5.51E-02	4.44E-02	8.31E-02	3.37E-02
0.048	0.03089	0.056986	2.62E-02	5.31E-02	4.05E-02	6.66E-02	2.99E-02
0.039	0.026976	0.042343	2.23E-02	5.01E-02	3.66E-02	5.20E-02	2.62E-02
0.041	0.023061	0.029546	1.84E-02	4.60E-02	3.27E-02	3.92E-02	2.24E-02
0.042	0.019147	0.018595	1.45E-02	4.08E-02	2.88E-02	2.82E-02	1.86E-02
0.031	0.015232	0.009491	1.06E-02	3.46E-02	2.49E-02	1.91E-02	1.48E-02
0.022	-0.02164	0.019056	-2.63E-02	-3.21E-02	-1.20E-02	2.87E-02	-2.30E-02
0.026	-0.02567	-0.00406	-3.03E-02	-3.41E-02	-1.60E-02	5.57E-03	-2.68E-02
0.021	-0.0297	-0.02533	-3.44E-02	-3.71E-02	-2.01E-02	-1.57E-02	-3.06E-02
0.019	-0.03373	-0.04475	-3.84E-02	-4.12E-02	-2.41E-02	-3.51E-02	-3.43E-02
0.017	-0.03776	-0.06233	-4.24E-02	-4.64E-02	-2.81E-02	-5.27E-02	-3.81E-02
0.003	-0.04179	-0.07805	-4.65E-02	-5.27E-02	-3.22E-02	-6.84E-02	-4.19E-02
0.22	0.230217	0.184678	2.26E-01	1.93E-01	2.28E-01	1.83E-01	2.31E-01
0.218	0.226648	0.188064	2.22E-01	1.91E-01	2.25E-01	1.86E-01	2.27E-01
0.219	0.22308	0.193296	2.18E-01	1.88E-01	2.21E-01	1.91E-01	2.23E-01
0.217	0.219511	0.200374	2.15E-01	1.84E-01	2.18E-01	1.99E-01	2.20E-01
0.211	0.215943	0.209299	2.11E-01	1.79E-01	2.14E-01	2.07E-01	2.16E-01
0.201	0.212375	0.22007	2.08E-01	1.73E-01	2.11E-01	2.18E-01	2.12E-01
0.173	0.201996	0.178634	1.97E-01	1.90E-01	2.00E-01	1.77E-01	2.03E-01
0.168	0.19837	0.178706	1.94E-01	1.88E-01	1.97E-01	1.77E-01	1.99E-01
0.171	0.194744	0.180626	1.90E-01	1.85E-01	1.93E-01	1.79E-01	1.95E-01
0.17	0.191118	0.184391	1.86E-01	1.81E-01	1.89E-01	1.83E-01	1.91E-01
0.168	0.187492	0.190004	1.83E-01	1.76E-01	1.86E-01	1.88E-01	1.88E-01
0.157	0.183866	0.197462	1.79E-01	1.70E-01	1.82E-01	1.96E-01	1.84E-01
0.133	0.173776	0.169333	1.69E-01	1.81E-01	1.72E-01	1.67E-01	1.74E-01
0.134	0.170092	0.166093	1.65E-01	1.79E-01	1.68E-01	1.64E-01	1.70E-01
0.133	0.166408	0.164699	1.62E-01	1.76E-01	1.65E-01	1.63E-01	1.67E-01
0.132	0.162725	0.165153	1.58E-01	1.72E-01	1.61E-01	1.63E-01	1.63E-01
0.131	0.159041	0.167452	1.54E-01	1.67E-01	1.57E-01	1.66E-01	1.59E-01
0.108	0.155357	0.171599	1.51E-01	1.60E-01	1.53E-01	1.70E-01	1.55E-01
0.106	0.117335	0.140962	1.13E-01	1.43E-01	1.15E-01	1.39E-01	1.18E-01
0.107	0.113536	0.131097	1.09E-01	1.42E-01	1.12E-01	1.29E-01	1.14E-01
0.099	0.109737	0.123078	1.05E-01	1.38E-01	1.08E-01	1.21E-01	1.10E-01
0.102	0.105938	0.116906	1.01E-01	1.34E-01	1.04E-01	1.15E-01	1.06E-01
0.099	0.102139	0.112581	9.75E-02	1.29E-01	1.00E-01	1.11E-01	1.02E-01
0.091	0.09834	0.110102	9.37E-02	1.23E-01	9.65E-02	1.08E-01	9.87E-02
0.071	0.060895	0.099566	5.62E-02	8.12E-02	5.90E-02	9.77E-02	6.08E-02
0.069	0.05698	0.083076	5.23E-02	7.92E-02	5.51E-02	8.12E-02	5.70E-02
0.068	0.053066	0.068433	4.84E-02	7.62E-02	5.12E-02	6.66E-02	5.33E-02
0.068	0.049151	0.055636	4.45E-02	7.21E-02	4.73E-02	5.38E-02	4.95E-02
0.066	0.045237	0.044685	4.06E-02	6.69E-02	4.34E-02	4.28E-02	4.57E-02
0.052	0.041322	0.035581	3.67E-02	6.06E-02	3.95E-02	3.37E-02	4.19E-02
0.029	0.004454	0.045146	-2.12E-04	-6.01E-03	2.59E-03	4.33E-02	4.07E-03
0.024	0.000424	0.022031	-4.24E-03	-7.98E-03	-1.44E-03	2.02E-02	2.98E-04

0.024	-0.00361	0.000762	-8.27E-03	-1.10E-02	-5.47E-03	-1.10E-03	-3.47E-03
0.023	-0.00764	-0.01866	-1.23E-02	-1.51E-02	-9.50E-03	-2.05E-02	-7.24E-03
0.021	-0.01167	-0.03624	-1.63E-02	-2.03E-02	-1.35E-02	-3.81E-02	-1.10E-02
0.008	-0.0157	-0.05197	-2.04E-02	-2.66E-02	-1.76E-02	-5.38E-02	-1.48E-02
0.311	0.282397	0.236858	2.78E-01	2.45E-01	2.87E-01	2.41E-01	2.85E-01
0.321	0.278828	0.240244	2.74E-01	2.44E-01	2.83E-01	2.45E-01	2.81E-01
0.308	0.27526	0.245475	2.71E-01	2.40E-01	2.80E-01	2.50E-01	2.78E-01
0.311	0.271691	0.252554	2.67E-01	2.36E-01	2.76E-01	2.57E-01	2.74E-01
0.312	0.268123	0.261479	2.63E-01	2.31E-01	2.72E-01	2.66E-01	2.70E-01
0.309	0.264554	0.27225	2.60E-01	2.25E-01	2.69E-01	2.77E-01	2.66E-01
0.277	0.254176	0.230813	2.50E-01	2.42E-01	2.59E-01	2.35E-01	2.57E-01
0.289	0.25055	0.230886	2.46E-01	2.40E-01	2.55E-01	2.35E-01	2.53E-01
0.276	0.246924	0.232805	2.42E-01	2.37E-01	2.51E-01	2.37E-01	2.49E-01
0.265	0.243298	0.236571	2.39E-01	2.33E-01	2.48E-01	2.41E-01	2.46E-01
0.266	0.239672	0.242183	2.35E-01	2.28E-01	2.44E-01	2.47E-01	2.42E-01
0.253	0.236046	0.249642	2.31E-01	2.22E-01	2.40E-01	2.54E-01	2.38E-01
0.159	0.225956	0.221512	2.21E-01	2.33E-01	2.30E-01	2.26E-01	2.28E-01
0.164	0.222272	0.218273	2.18E-01	2.31E-01	2.27E-01	2.23E-01	2.25E-01
0.149	0.218588	0.216879	2.14E-01	2.28E-01	2.23E-01	2.21E-01	2.21E-01
0.152	0.214905	0.217332	2.10E-01	2.24E-01	2.19E-01	2.22E-01	2.17E-01
0.153	0.211221	0.219632	2.07E-01	2.19E-01	2.16E-01	2.24E-01	2.13E-01
0.139	0.207537	0.223778	2.03E-01	2.12E-01	2.12E-01	2.28E-01	2.10E-01
0.119	0.169515	0.193142	1.65E-01	1.96E-01	1.74E-01	1.97E-01	1.72E-01
0.122	0.165716	0.183277	1.61E-01	1.94E-01	1.70E-01	1.88E-01	1.68E-01
0.116	0.161917	0.175258	1.57E-01	1.91E-01	1.66E-01	1.80E-01	1.64E-01
0.115	0.158118	0.169086	1.53E-01	1.87E-01	1.62E-01	1.73E-01	1.60E-01
0.114	0.154319	0.164761	1.50E-01	1.81E-01	1.59E-01	1.69E-01	1.57E-01
0.099	0.150519	0.162282	1.46E-01	1.75E-01	1.55E-01	1.67E-01	1.53E-01
0.077	0.113075	0.151746	1.08E-01	1.33E-01	1.17E-01	1.56E-01	1.15E-01
0.085	0.10916	0.135256	1.04E-01	1.31E-01	1.13E-01	1.40E-01	1.11E-01
0.079	0.105245	0.120612	1.01E-01	1.28E-01	1.10E-01	1.25E-01	1.07E-01
0.076	0.101331	0.107815	9.67E-02	1.24E-01	1.06E-01	1.12E-01	1.04E-01
0.075	0.097416	0.096865	9.28E-02	1.19E-01	1.02E-01	1.01E-01	9.99E-02
0.054	0.093502	0.087761	8.88E-02	1.13E-01	9.78E-02	9.21E-02	9.61E-02
0.031	0.056634	0.097326	5.20E-02	4.62E-02	6.10E-02	1.02E-01	5.83E-02
0.043	0.052604	0.07421	4.79E-02	4.42E-02	5.69E-02	7.85E-02	5.45E-02
0.032	0.048574	0.052942	4.39E-02	4.12E-02	5.29E-02	5.73E-02	5.07E-02
0.031	0.044544	0.03352	3.99E-02	3.71E-02	4.89E-02	3.79E-02	4.70E-02
0.028	0.040514	0.015944	3.59E-02	3.19E-02	4.48E-02	2.03E-02	4.32E-02
0.014	0.036484	0.000215	3.18E-02	2.56E-02	4.08E-02	4.55E-03	3.94E-02
0.224	0.22001	0.174471	2.15E-01	1.83E-01	2.22E-01	1.77E-01	2.20E-01
0.226	0.216441	0.177857	2.12E-01	1.81E-01	2.19E-01	1.80E-01	2.17E-01
0.227	0.212873	0.183089	2.08E-01	1.78E-01	2.15E-01	1.86E-01	2.13E-01
0.229	0.209304	0.190167	2.05E-01	1.74E-01	2.12E-01	1.93E-01	2.09E-01
0.223	0.205736	0.199092	2.01E-01	1.69E-01	2.08E-01	2.02E-01	2.05E-01
0.218	0.202168	0.209863	1.98E-01	1.63E-01	2.05E-01	2.12E-01	2.02E-01
0.176	0.191789	0.168427	1.87E-01	1.80E-01	1.94E-01	1.71E-01	1.92E-01
0.169	0.188163	0.168499	1.84E-01	1.78E-01	1.91E-01	1.71E-01	1.88E-01

0.171	0.184537	0.170419	1.80E-01	1.75E-01	1.87E-01	1.73E-01	1.85E-01
0.166	0.180911	0.174184	1.76E-01	1.71E-01	1.83E-01	1.77E-01	1.81E-01
0.162	0.177285	0.179797	1.73E-01	1.66E-01	1.80E-01	1.82E-01	1.77E-01
0.153	0.173659	0.187255	1.69E-01	1.59E-01	1.76E-01	1.90E-01	1.73E-01
0.128	0.163569	0.159126	1.59E-01	1.71E-01	1.66E-01	1.62E-01	1.64E-01
0.131	0.159885	0.155886	1.55E-01	1.69E-01	1.62E-01	1.58E-01	1.60E-01
0.129	0.156201	0.154492	1.52E-01	1.66E-01	1.59E-01	1.57E-01	1.56E-01
0.133	0.152518	0.154946	1.48E-01	1.62E-01	1.55E-01	1.57E-01	1.52E-01
0.127	0.148834	0.157245	1.44E-01	1.56E-01	1.51E-01	1.60E-01	1.49E-01
0.117	0.14515	0.161392	1.40E-01	1.50E-01	1.48E-01	1.64E-01	1.45E-01
0.098	0.107128	0.130755	1.02E-01	1.33E-01	1.10E-01	1.33E-01	1.07E-01
0.095	0.103329	0.12089	9.87E-02	1.31E-01	1.06E-01	1.23E-01	1.03E-01
0.099	0.09953	0.112871	9.49E-02	1.28E-01	1.02E-01	1.15E-01	9.95E-02
0.091	0.095731	0.1067	9.11E-02	1.24E-01	9.82E-02	1.09E-01	9.57E-02
0.089	0.091932	0.102374	8.73E-02	1.19E-01	9.44E-02	1.05E-01	9.19E-02
0.083	0.088133	0.099895	8.35E-02	1.13E-01	9.06E-02	1.02E-01	8.82E-02
0.063	0.050688	0.089359	4.60E-02	7.10E-02	5.31E-02	9.18E-02	5.03E-02
0.062	0.046773	0.072869	4.21E-02	6.90E-02	4.92E-02	7.53E-02	4.65E-02
0.059	0.042859	0.058226	3.82E-02	6.60E-02	4.53E-02	6.07E-02	4.28E-02
0.058	0.038944	0.045429	3.43E-02	6.19E-02	4.14E-02	4.79E-02	3.90E-02
0.059	0.03503	0.034478	3.04E-02	5.67E-02	3.75E-02	3.69E-02	3.52E-02
0.046	0.031115	0.025374	2.65E-02	5.04E-02	3.35E-02	2.78E-02	3.14E-02
0.018	-0.00575	0.034939	-1.04E-02	-1.62E-02	-3.32E-03	3.74E-02	-6.43E-03
0.025	-0.00978	0.011824	-1.44E-02	-1.82E-02	-7.35E-03	1.43E-02	-1.02E-02
0.026	-0.01381	-0.00945	-1.85E-02	-2.12E-02	-1.14E-02	-7.01E-03	-1.40E-02
0.018	-0.01784	-0.02887	-2.25E-02	-2.53E-02	-1.54E-02	-2.64E-02	-1.77E-02
0.015	-0.02187	-0.04644	-2.65E-02	-3.05E-02	-1.94E-02	-4.40E-02	-2.15E-02
0.007	-0.0259	-0.06217	-3.06E-02	-3.68E-02	-2.35E-02	-5.97E-02	-2.53E-02
0.309	0.2461	0.200561	2.41E-01	2.09E-01	2.37E-01	1.92E-01	2.46E-01
0.314	0.242531	0.203947	2.38E-01	2.07E-01	2.33E-01	1.95E-01	2.42E-01
0.312	0.238963	0.209178	2.34E-01	2.04E-01	2.30E-01	2.00E-01	2.39E-01
0.313	0.235394	0.216257	2.31E-01	2.00E-01	2.26E-01	2.07E-01	2.35E-01
0.311	0.231826	0.225182	2.27E-01	1.95E-01	2.23E-01	2.16E-01	2.31E-01
0.308	0.228258	0.235953	2.24E-01	1.89E-01	2.19E-01	2.27E-01	2.27E-01
0.207	0.217879	0.194517	2.13E-01	2.06E-01	2.09E-01	1.85E-01	2.18E-01
0.218	0.214253	0.194589	2.10E-01	2.04E-01	2.05E-01	1.86E-01	2.14E-01
0.216	0.210627	0.196509	2.06E-01	2.01E-01	2.02E-01	1.87E-01	2.10E-01
0.212	0.207001	0.200274	2.02E-01	1.97E-01	1.98E-01	1.91E-01	2.06E-01
0.208	0.203375	0.205887	1.99E-01	1.92E-01	1.94E-01	1.97E-01	2.03E-01
0.197	0.199749	0.213345	1.95E-01	1.86E-01	1.91E-01	2.04E-01	1.99E-01
0.154	0.189659	0.185215	1.85E-01	1.97E-01	1.81E-01	1.76E-01	1.89E-01
0.163	0.185975	0.181976	1.81E-01	1.95E-01	1.77E-01	1.73E-01	1.86E-01
0.159	0.182291	0.180582	1.78E-01	1.92E-01	1.73E-01	1.72E-01	1.82E-01
0.161	0.178608	0.181036	1.74E-01	1.88E-01	1.70E-01	1.72E-01	1.78E-01
0.157	0.174924	0.183335	1.70E-01	1.82E-01	1.66E-01	1.74E-01	1.74E-01
0.142	0.17124	0.187482	1.67E-01	1.76E-01	1.62E-01	1.78E-01	1.71E-01
0.116	0.133218	0.156845	1.29E-01	1.59E-01	1.24E-01	1.48E-01	1.33E-01
0.121	0.129419	0.14698	1.25E-01	1.57E-01	1.20E-01	1.38E-01	1.29E-01

0.123	0.12562	0.138961	1.21E-01	1.54E-01	1.17E-01	1.30E-01	1.25E-01
0.121	0.121821	0.132789	1.17E-01	1.50E-01	1.13E-01	1.24E-01	1.21E-01
0.118	0.118022	0.128464	1.13E-01	1.45E-01	1.09E-01	1.19E-01	1.18E-01
0.099	0.114223	0.125985	1.10E-01	1.39E-01	1.05E-01	1.17E-01	1.14E-01
0.082	0.076778	0.115449	7.21E-02	9.71E-02	6.77E-02	1.06E-01	7.59E-02
0.081	0.072863	0.098959	6.82E-02	9.51E-02	6.38E-02	8.99E-02	7.22E-02
0.079	0.068949	0.084316	6.43E-02	9.21E-02	5.99E-02	7.53E-02	6.84E-02
0.084	0.065034	0.071518	6.04E-02	8.80E-02	5.60E-02	6.25E-02	6.46E-02
0.083	0.06112	0.060568	5.65E-02	8.28E-02	5.21E-02	5.15E-02	6.09E-02
0.066	0.057205	0.051464	5.25E-02	7.65E-02	4.81E-02	4.24E-02	5.71E-02
0.031	0.020337	0.061029	1.57E-02	9.87E-03	1.13E-02	5.20E-02	1.92E-02
0.036	0.016307	0.037914	1.16E-02	7.90E-03	7.25E-03	2.89E-02	1.55E-02
0.035	0.012277	0.016645	7.62E-03	4.87E-03	3.22E-03	7.58E-03	1.17E-02
0.037	0.008247	-0.00278	3.59E-03	7.56E-04	-8.14E-04	-1.18E-02	7.91E-03
0.039	0.004217	-0.02035	-4.41E-04	-4.43E-03	-4.84E-03	-2.94E-02	4.14E-03
0.018	0.000188	-0.03608	-4.47E-03	-1.07E-02	-8.87E-03	-4.51E-02	3.69E-04
0.422	0.29828	0.252741	2.94E-01	2.61E-01	2.95E-01	2.50E-01	2.97E-01
0.422	0.294711	0.256127	2.90E-01	2.59E-01	2.92E-01	2.53E-01	2.94E-01
0.425	0.291143	0.261358	2.86E-01	2.56E-01	2.88E-01	2.58E-01	2.90E-01
0.419	0.287574	0.268437	2.83E-01	2.52E-01	2.85E-01	2.66E-01	2.86E-01
0.408	0.284006	0.277362	2.79E-01	2.47E-01	2.81E-01	2.74E-01	2.82E-01
0.387	0.280437	0.288133	2.76E-01	2.41E-01	2.78E-01	2.85E-01	2.79E-01
0.252	0.270059	0.246696	2.65E-01	2.58E-01	2.67E-01	2.44E-01	2.69E-01
0.247	0.266433	0.246769	2.62E-01	2.56E-01	2.64E-01	2.44E-01	2.65E-01
0.249	0.262807	0.248688	2.58E-01	2.53E-01	2.60E-01	2.46E-01	2.62E-01
0.243	0.259181	0.252454	2.55E-01	2.49E-01	2.56E-01	2.50E-01	2.58E-01
0.248	0.255555	0.258066	2.51E-01	2.44E-01	2.53E-01	2.55E-01	2.54E-01
0.225	0.251929	0.265525	2.47E-01	2.38E-01	2.49E-01	2.63E-01	2.50E-01
0.161	0.241839	0.237395	2.37E-01	2.49E-01	2.39E-01	2.35E-01	2.41E-01
0.167	0.238155	0.234156	2.33E-01	2.47E-01	2.35E-01	2.31E-01	2.37E-01
0.163	0.234471	0.232762	2.30E-01	2.44E-01	2.32E-01	2.30E-01	2.33E-01
0.162	0.230788	0.233215	2.26E-01	2.40E-01	2.28E-01	2.30E-01	2.29E-01
0.155	0.227104	0.235515	2.22E-01	2.35E-01	2.24E-01	2.33E-01	2.26E-01
0.146	0.22342	0.239661	2.19E-01	2.28E-01	2.21E-01	2.37E-01	2.22E-01
0.117	0.185398	0.209025	1.81E-01	2.12E-01	1.83E-01	2.06E-01	1.84E-01
0.115	0.181599	0.19916	1.77E-01	2.10E-01	1.79E-01	1.96E-01	1.80E-01
0.119	0.1778	0.191141	1.73E-01	2.07E-01	1.75E-01	1.88E-01	1.76E-01
0.118	0.174001	0.184969	1.69E-01	2.02E-01	1.71E-01	1.82E-01	1.73E-01
0.117	0.170202	0.180644	1.66E-01	1.97E-01	1.67E-01	1.78E-01	1.69E-01
0.106	0.166402	0.178165	1.62E-01	1.91E-01	1.64E-01	1.75E-01	1.65E-01
0.085	0.128957	0.167629	1.24E-01	1.49E-01	1.26E-01	1.65E-01	1.27E-01
0.084	0.125043	0.151139	1.20E-01	1.47E-01	1.22E-01	1.48E-01	1.23E-01
0.076	0.121128	0.136495	1.16E-01	1.44E-01	1.18E-01	1.34E-01	1.20E-01
0.081	0.117214	0.123698	1.13E-01	1.40E-01	1.14E-01	1.21E-01	1.16E-01
0.078	0.113299	0.112748	1.09E-01	1.35E-01	1.10E-01	1.10E-01	1.12E-01
0.055	0.109385	0.103644	1.05E-01	1.29E-01	1.07E-01	1.01E-01	1.08E-01
0.036	0.072517	0.113209	6.79E-02	6.20E-02	6.97E-02	1.10E-01	7.05E-02
0.032	0.068487	0.090093	6.38E-02	6.01E-02	6.56E-02	8.72E-02	6.67E-02

0.031	0.064457	0.068825	5.98E-02	5.70E-02	6.16E-02	6.60E-02	6.30E-02
0.028	0.060427	0.049403	5.58E-02	5.29E-02	5.76E-02	4.65E-02	5.92E-02
0.029	0.056397	0.031827	5.17E-02	4.78E-02	5.35E-02	2.90E-02	5.54E-02
0.018	0.052367	0.016098	4.77E-02	4.15E-02	4.95E-02	1.32E-02	5.17E-02
0.407	0.292807	0.247268	2.88E-01	2.56E-01	2.96E-01	2.51E-01	2.97E-01
0.405	0.289238	0.250654	2.85E-01	2.54E-01	2.93E-01	2.54E-01	2.93E-01
0.406	0.28567	0.255885	2.81E-01	2.51E-01	2.89E-01	2.60E-01	2.89E-01
0.401	0.282101	0.262964	2.77E-01	2.47E-01	2.86E-01	2.67E-01	2.85E-01
0.399	0.278533	0.271889	2.74E-01	2.42E-01	2.82E-01	2.76E-01	2.82E-01
0.38	0.274965	0.28266	2.70E-01	2.35E-01	2.79E-01	2.86E-01	2.78E-01
0.266	0.264586	0.241224	2.60E-01	2.53E-01	2.68E-01	2.45E-01	2.68E-01
0.268	0.26096	0.241296	2.56E-01	2.51E-01	2.65E-01	2.45E-01	2.64E-01
0.263	0.257334	0.243216	2.53E-01	2.48E-01	2.61E-01	2.47E-01	2.61E-01
0.257	0.253708	0.246981	2.49E-01	2.44E-01	2.57E-01	2.51E-01	2.57E-01
0.253	0.250082	0.252594	2.45E-01	2.38E-01	2.54E-01	2.56E-01	2.53E-01
0.244	0.246456	0.260052	2.42E-01	2.32E-01	2.50E-01	2.64E-01	2.49E-01
0.168	0.236366	0.231922	2.32E-01	2.43E-01	2.40E-01	2.36E-01	2.40E-01
0.163	0.232682	0.228683	2.28E-01	2.41E-01	2.36E-01	2.32E-01	2.36E-01
0.168	0.228998	0.227289	2.24E-01	2.38E-01	2.33E-01	2.31E-01	2.32E-01
0.162	0.225315	0.227743	2.21E-01	2.34E-01	2.29E-01	2.31E-01	2.29E-01
0.157	0.221631	0.230042	2.17E-01	2.29E-01	2.25E-01	2.34E-01	2.25E-01
0.143	0.217947	0.234188	2.13E-01	2.23E-01	2.22E-01	2.38E-01	2.21E-01
0.117	0.179925	0.203552	1.75E-01	2.06E-01	1.84E-01	2.07E-01	1.83E-01
0.116	0.176126	0.193687	1.71E-01	2.04E-01	1.80E-01	1.97E-01	1.79E-01
0.115	0.172327	0.185668	1.68E-01	2.01E-01	1.76E-01	1.89E-01	1.76E-01
0.109	0.168528	0.179496	1.64E-01	1.97E-01	1.72E-01	1.83E-01	1.72E-01
0.113	0.164729	0.175171	1.60E-01	1.92E-01	1.68E-01	1.79E-01	1.68E-01
0.105	0.16093	0.172692	1.56E-01	1.86E-01	1.65E-01	1.76E-01	1.64E-01
0.083	0.123485	0.162156	1.19E-01	1.44E-01	1.27E-01	1.66E-01	1.26E-01
0.086	0.11957	0.145666	1.15E-01	1.42E-01	1.23E-01	1.49E-01	1.23E-01
0.089	0.115656	0.131023	1.11E-01	1.39E-01	1.19E-01	1.35E-01	1.19E-01
0.078	0.111741	0.118225	1.07E-01	1.35E-01	1.15E-01	1.22E-01	1.15E-01
0.073	0.107827	0.107275	1.03E-01	1.29E-01	1.11E-01	1.11E-01	1.11E-01
0.059	0.103912	0.098171	9.93E-02	1.23E-01	1.08E-01	1.02E-01	1.08E-01
0.041	0.067044	0.107736	6.24E-02	5.66E-02	7.07E-02	1.11E-01	6.97E-02
0.039	0.063014	0.08462	5.84E-02	5.46E-02	6.67E-02	8.83E-02	6.59E-02
0.038	0.058984	0.063352	5.44E-02	5.16E-02	6.26E-02	6.70E-02	6.21E-02
0.035	0.054954	0.04393	5.03E-02	4.75E-02	5.86E-02	4.76E-02	5.84E-02
0.029	0.050924	0.026354	4.63E-02	4.23E-02	5.46E-02	3.00E-02	5.46E-02
0.013	0.046895	0.010625	4.23E-02	3.60E-02	5.05E-02	1.43E-02	5.08E-02
0.443	0.318897	0.273358	3.14E-01	2.82E-01	3.11E-01	2.66E-01	3.16E-01
0.445	0.315328	0.276744	3.11E-01	2.80E-01	3.07E-01	2.69E-01	3.12E-01
0.447	0.31176	0.281975	3.07E-01	2.77E-01	3.04E-01	2.74E-01	3.08E-01
0.438	0.308191	0.289054	3.04E-01	2.73E-01	3.00E-01	2.81E-01	3.04E-01
0.443	0.304623	0.297979	3.00E-01	2.68E-01	2.97E-01	2.90E-01	3.01E-01
0.421	0.301054	0.30875	2.96E-01	2.61E-01	2.93E-01	3.01E-01	2.97E-01
0.253	0.290676	0.267313	2.86E-01	2.79E-01	2.83E-01	2.59E-01	2.87E-01
0.255	0.28705	0.267386	2.82E-01	2.77E-01	2.79E-01	2.60E-01	2.83E-01

0.257	0.283424	0.269305	2.79E-01	2.74E-01	2.76E-01	2.61E-01	2.80E-01
0.251	0.279798	0.273071	2.75E-01	2.70E-01	2.72E-01	2.65E-01	2.76E-01
0.252	0.276172	0.278683	2.72E-01	2.65E-01	2.68E-01	2.71E-01	2.72E-01
0.217	0.272546	0.286142	2.68E-01	2.58E-01	2.65E-01	2.78E-01	2.68E-01
0.163	0.262456	0.258012	2.58E-01	2.70E-01	2.55E-01	2.50E-01	2.59E-01
0.159	0.258772	0.254773	2.54E-01	2.68E-01	2.51E-01	2.47E-01	2.55E-01
0.162	0.255088	0.253379	2.50E-01	2.65E-01	2.47E-01	2.46E-01	2.51E-01
0.158	0.251405	0.253832	2.47E-01	2.60E-01	2.44E-01	2.46E-01	2.48E-01
0.155	0.247721	0.256132	2.43E-01	2.55E-01	2.40E-01	2.48E-01	2.44E-01
0.151	0.244037	0.260278	2.39E-01	2.49E-01	2.36E-01	2.52E-01	2.40E-01
0.112	0.206015	0.229642	2.01E-01	2.32E-01	1.98E-01	2.22E-01	2.02E-01
0.109	0.202216	0.219777	1.98E-01	2.30E-01	1.94E-01	2.12E-01	1.98E-01
0.113	0.198417	0.211758	1.94E-01	2.27E-01	1.91E-01	2.04E-01	1.95E-01
0.108	0.194618	0.205586	1.90E-01	2.23E-01	1.87E-01	1.98E-01	1.91E-01
0.101	0.190819	0.201261	1.86E-01	2.18E-01	1.83E-01	1.93E-01	1.87E-01
0.086	0.187019	0.198782	1.82E-01	2.12E-01	1.79E-01	1.91E-01	1.83E-01
0.076	0.149575	0.188246	1.45E-01	1.70E-01	1.42E-01	1.80E-01	1.45E-01
0.075	0.14566	0.171756	1.41E-01	1.68E-01	1.38E-01	1.64E-01	1.42E-01
0.071	0.141746	0.157112	1.37E-01	1.65E-01	1.34E-01	1.49E-01	1.38E-01
0.065	0.137831	0.144315	1.33E-01	1.61E-01	1.30E-01	1.36E-01	1.34E-01
0.062	0.133916	0.133365	1.29E-01	1.56E-01	1.26E-01	1.26E-01	1.30E-01
0.044	0.130002	0.124261	1.25E-01	1.49E-01	1.22E-01	1.16E-01	1.27E-01
0.028	0.093134	0.133826	8.85E-02	8.27E-02	8.53E-02	1.26E-01	8.87E-02
0.031	0.089104	0.11071	8.45E-02	8.07E-02	8.13E-02	1.03E-01	8.49E-02
0.021	0.085074	0.089442	8.04E-02	7.77E-02	7.72E-02	8.16E-02	8.11E-02
0.022	0.081044	0.07002	7.64E-02	7.36E-02	7.32E-02	6.22E-02	7.74E-02
0.021	0.077014	0.052444	7.24E-02	6.84E-02	6.92E-02	4.46E-02	7.36E-02
0.007	0.072984	0.036715	6.84E-02	6.21E-02	6.51E-02	2.89E-02	6.98E-02
0.156	0.250217	0.204679	2.48E-01	2.13E-01	2.60E-01	2.14E-01	2.50E-01
0.159	0.246649	0.208064	2.44E-01	2.11E-01	2.56E-01	2.18E-01	2.46E-01
0.158	0.24308	0.213296	2.40E-01	2.08E-01	2.53E-01	2.23E-01	2.42E-01
0.156	0.239512	0.220374	2.37E-01	2.04E-01	2.49E-01	2.30E-01	2.39E-01
0.156	0.235943	0.229299	2.33E-01	1.99E-01	2.45E-01	2.39E-01	2.35E-01
0.151	0.232375	0.24007	2.30E-01	1.93E-01	2.42E-01	2.50E-01	2.31E-01
0.148	0.221997	0.198634	2.19E-01	2.10E-01	2.32E-01	2.08E-01	2.22E-01
0.149	0.218371	0.198707	2.16E-01	2.08E-01	2.28E-01	2.08E-01	2.18E-01
0.148	0.214744	0.200626	2.12E-01	2.05E-01	2.24E-01	2.10E-01	2.14E-01
0.148	0.211118	0.204392	2.08E-01	2.01E-01	2.21E-01	2.14E-01	2.10E-01
0.145	0.207492	0.210004	2.05E-01	1.96E-01	2.17E-01	2.20E-01	2.06E-01
0.141	0.203866	0.217463	2.01E-01	1.90E-01	2.13E-01	2.27E-01	2.03E-01
0.122	0.193776	0.189333	1.91E-01	2.01E-01	2.03E-01	1.99E-01	1.93E-01
0.123	0.190093	0.186093	1.87E-01	1.99E-01	2.00E-01	1.96E-01	1.89E-01
0.122	0.186409	0.1847	1.84E-01	1.96E-01	1.96E-01	1.94E-01	1.86E-01
0.124	0.182725	0.185153	1.80E-01	1.92E-01	1.92E-01	1.95E-01	1.82E-01
0.119	0.179041	0.187453	1.76E-01	1.87E-01	1.89E-01	1.97E-01	1.78E-01
0.121	0.175357	0.191599	1.73E-01	1.80E-01	1.85E-01	2.01E-01	1.74E-01
0.105	0.137336	0.160962	1.35E-01	1.63E-01	1.47E-01	1.70E-01	1.36E-01
0.103	0.133537	0.151097	1.31E-01	1.62E-01	1.43E-01	1.61E-01	1.33E-01

0.101	0.129737	0.143079	1.27E-01	1.58E-01	1.39E-01	1.53E-01	1.29E-01
0.101	0.125938	0.136907	1.23E-01	1.54E-01	1.35E-01	1.46E-01	1.25E-01
0.096	0.122139	0.132581	1.19E-01	1.49E-01	1.32E-01	1.42E-01	1.21E-01
0.075	0.11834	0.130103	1.16E-01	1.43E-01	1.28E-01	1.40E-01	1.18E-01
0.075	0.080895	0.119566	7.82E-02	1.01E-01	9.04E-02	1.29E-01	7.97E-02
0.071	0.07698	0.103076	7.43E-02	9.92E-02	8.65E-02	1.13E-01	7.60E-02
0.072	0.073066	0.088433	7.04E-02	9.62E-02	8.26E-02	9.79E-02	7.22E-02
0.071	0.069151	0.075636	6.64E-02	9.21E-02	7.87E-02	8.51E-02	6.84E-02
0.071	0.065237	0.064685	6.25E-02	8.69E-02	7.47E-02	7.42E-02	6.47E-02
0.055	0.061322	0.055581	5.86E-02	8.06E-02	7.08E-02	6.51E-02	6.09E-02
0.059	0.024454	0.065146	2.18E-02	1.40E-02	3.40E-02	7.47E-02	2.30E-02
0.058	0.020424	0.042031	1.77E-02	1.20E-02	2.99E-02	5.15E-02	1.92E-02
0.055	0.016395	0.020762	1.37E-02	8.98E-03	2.59E-02	3.03E-02	1.55E-02
0.055	0.012365	0.00134	9.66E-03	4.87E-03	2.19E-02	1.08E-02	1.17E-02
0.054	0.008335	-0.01624	5.63E-03	-3.08E-04	1.78E-02	-6.73E-03	7.93E-03
0.043	0.004305	-0.03196	1.60E-03	-6.56E-03	1.38E-02	-2.25E-02	4.16E-03
0.227	0.276307	0.230769	2.74E-01	2.39E-01	2.74E-01	2.29E-01	2.77E-01
0.226	0.272739	0.234154	2.70E-01	2.37E-01	2.71E-01	2.32E-01	2.73E-01
0.226	0.26917	0.239386	2.66E-01	2.34E-01	2.67E-01	2.37E-01	2.69E-01
0.226	0.265602	0.246464	2.63E-01	2.30E-01	2.64E-01	2.44E-01	2.66E-01
0.225	0.262033	0.255389	2.59E-01	2.25E-01	2.60E-01	2.53E-01	2.62E-01
0.193	0.258465	0.26616	2.56E-01	2.19E-01	2.56E-01	2.64E-01	2.58E-01
0.195	0.248087	0.224724	2.45E-01	2.36E-01	2.46E-01	2.23E-01	2.49E-01
0.195	0.244461	0.224797	2.42E-01	2.34E-01	2.42E-01	2.23E-01	2.45E-01
0.195	0.240834	0.226716	2.38E-01	2.31E-01	2.39E-01	2.25E-01	2.41E-01
0.191	0.237208	0.230482	2.35E-01	2.27E-01	2.35E-01	2.28E-01	2.37E-01
0.189	0.233582	0.236094	2.31E-01	2.22E-01	2.32E-01	2.34E-01	2.34E-01
0.173	0.229956	0.243553	2.27E-01	2.16E-01	2.28E-01	2.42E-01	2.30E-01
0.166	0.219866	0.215423	2.17E-01	2.27E-01	2.18E-01	2.13E-01	2.20E-01
0.168	0.216182	0.212183	2.13E-01	2.25E-01	2.14E-01	2.10E-01	2.17E-01
0.168	0.212499	0.21079	2.10E-01	2.22E-01	2.11E-01	2.09E-01	2.13E-01
0.167	0.208815	0.211243	2.06E-01	2.18E-01	2.07E-01	2.09E-01	2.09E-01
0.161	0.205131	0.213543	2.02E-01	2.13E-01	2.03E-01	2.12E-01	2.05E-01
0.141	0.201447	0.217689	1.99E-01	2.06E-01	1.99E-01	2.16E-01	2.01E-01
0.141	0.163426	0.187052	1.61E-01	1.90E-01	1.61E-01	1.85E-01	1.64E-01
0.141	0.159626	0.177187	1.57E-01	1.88E-01	1.58E-01	1.75E-01	1.60E-01
0.142	0.155827	0.169169	1.53E-01	1.85E-01	1.54E-01	1.67E-01	1.56E-01
0.143	0.152028	0.162997	1.49E-01	1.80E-01	1.50E-01	1.61E-01	1.52E-01
0.137	0.148229	0.158671	1.46E-01	1.75E-01	1.46E-01	1.57E-01	1.48E-01
0.126	0.14443	0.156192	1.42E-01	1.69E-01	1.42E-01	1.54E-01	1.45E-01
0.124	0.106985	0.145656	1.04E-01	1.27E-01	1.05E-01	1.44E-01	1.07E-01
0.124	0.10307	0.129166	1.00E-01	1.25E-01	1.01E-01	1.27E-01	1.03E-01
0.123	0.099156	0.114523	9.65E-02	1.22E-01	9.72E-02	1.13E-01	9.93E-02
0.123	0.095241	0.101726	9.25E-02	1.18E-01	9.33E-02	9.97E-02	9.55E-02
0.115	0.091327	0.090775	8.86E-02	1.13E-01	8.93E-02	8.88E-02	9.18E-02
0.101	0.087412	0.081671	8.47E-02	1.07E-01	8.54E-02	7.97E-02	8.80E-02
0.084	0.050544	0.091236	4.78E-02	4.01E-02	4.86E-02	8.92E-02	5.01E-02
0.083	0.046514	0.068121	4.38E-02	3.81E-02	4.45E-02	6.61E-02	4.63E-02

0.083	0.042484	0.046852	3.98E-02	3.51E-02	4.05E-02	4.49E-02	4.26E-02
0.082	0.038455	0.02743	3.58E-02	3.10E-02	3.65E-02	2.54E-02	3.88E-02
0.079	0.034425	0.009854	3.17E-02	2.58E-02	3.24E-02	7.86E-03	3.50E-02
0.047	0.030395	-0.00587	2.77E-02	1.95E-02	2.84E-02	-7.87E-03	3.13E-02
0.315	0.328487	0.282949	3.26E-01	2.92E-01	3.33E-01	2.87E-01	3.31E-01
0.319	0.324918	0.286334	3.22E-01	2.90E-01	3.29E-01	2.91E-01	3.27E-01
0.32	0.32135	0.291566	3.19E-01	2.87E-01	3.26E-01	2.96E-01	3.24E-01
0.311	0.317782	0.298644	3.15E-01	2.82E-01	3.22E-01	3.03E-01	3.20E-01
0.312	0.314213	0.307569	3.12E-01	2.77E-01	3.18E-01	3.12E-01	3.16E-01
0.295	0.310645	0.31834	3.08E-01	2.71E-01	3.15E-01	3.23E-01	3.12E-01
0.289	0.300266	0.276904	2.98E-01	2.88E-01	3.04E-01	2.81E-01	3.03E-01
0.285	0.29664	0.276976	2.94E-01	2.87E-01	3.01E-01	2.81E-01	2.99E-01
0.285	0.293014	0.278896	2.90E-01	2.83E-01	2.97E-01	2.83E-01	2.95E-01
0.286	0.289388	0.282661	2.87E-01	2.79E-01	2.94E-01	2.87E-01	2.92E-01
0.271	0.285762	0.288274	2.83E-01	2.74E-01	2.90E-01	2.92E-01	2.88E-01
0.243	0.282136	0.295732	2.79E-01	2.68E-01	2.86E-01	3.00E-01	2.84E-01
0.236	0.272046	0.267603	2.69E-01	2.79E-01	2.76E-01	2.72E-01	2.75E-01
0.241	0.268362	0.264363	2.66E-01	2.77E-01	2.73E-01	2.69E-01	2.71E-01
0.241	0.264679	0.262969	2.62E-01	2.74E-01	2.69E-01	2.67E-01	2.67E-01
0.239	0.260995	0.263423	2.58E-01	2.70E-01	2.65E-01	2.68E-01	2.63E-01
0.227	0.257311	0.265722	2.55E-01	2.65E-01	2.62E-01	2.70E-01	2.59E-01
0.149	0.253627	0.269869	2.51E-01	2.59E-01	2.58E-01	2.74E-01	2.56E-01
0.156	0.215605	0.239232	2.13E-01	2.42E-01	2.20E-01	2.43E-01	2.18E-01
0.156	0.211806	0.229367	2.09E-01	2.40E-01	2.16E-01	2.34E-01	2.14E-01
0.156	0.208007	0.221348	2.05E-01	2.37E-01	2.12E-01	2.26E-01	2.10E-01
0.152	0.204208	0.215177	2.02E-01	2.33E-01	2.08E-01	2.19E-01	2.06E-01
0.138	0.200409	0.210851	1.98E-01	2.27E-01	2.05E-01	2.15E-01	2.03E-01
0.131	0.19661	0.208372	1.94E-01	2.21E-01	2.01E-01	2.13E-01	1.99E-01
0.112	0.159165	0.197836	1.56E-01	1.79E-01	1.63E-01	2.02E-01	1.61E-01
0.111	0.15525	0.181346	1.53E-01	1.77E-01	1.59E-01	1.86E-01	1.57E-01
0.112	0.151336	0.166703	1.49E-01	1.74E-01	1.56E-01	1.71E-01	1.54E-01
0.113	0.147421	0.153906	1.45E-01	1.70E-01	1.52E-01	1.58E-01	1.50E-01
0.101	0.143507	0.142955	1.41E-01	1.65E-01	1.48E-01	1.47E-01	1.46E-01
0.089	0.139592	0.133851	1.37E-01	1.59E-01	1.44E-01	1.38E-01	1.42E-01
0.078	0.102724	0.143416	1.00E-01	9.23E-02	1.07E-01	1.48E-01	1.04E-01
0.085	0.098694	0.120301	9.60E-02	9.03E-02	1.03E-01	1.25E-01	1.01E-01
0.085	0.094664	0.099032	9.20E-02	8.73E-02	9.89E-02	1.03E-01	9.68E-02
0.081	0.090634	0.07961	8.79E-02	8.31E-02	9.48E-02	8.38E-02	9.30E-02
0.068	0.086605	0.062034	8.39E-02	7.80E-02	9.08E-02	6.62E-02	8.92E-02
0.067	0.082575	0.046305	7.99E-02	7.17E-02	8.68E-02	5.05E-02	8.55E-02
0.217	0.2661	0.220562	2.63E-01	2.29E-01	2.68E-01	2.23E-01	2.67E-01
0.215	0.262532	0.223947	2.60E-01	2.27E-01	2.65E-01	2.26E-01	2.63E-01
0.218	0.258963	0.229179	2.56E-01	2.24E-01	2.61E-01	2.31E-01	2.59E-01
0.211	0.255395	0.236257	2.53E-01	2.20E-01	2.58E-01	2.39E-01	2.55E-01
0.216	0.251826	0.245182	2.49E-01	2.15E-01	2.54E-01	2.47E-01	2.51E-01
0.209	0.248258	0.255953	2.46E-01	2.09E-01	2.51E-01	2.58E-01	2.48E-01
0.192	0.23788	0.214517	2.35E-01	2.26E-01	2.40E-01	2.17E-01	2.38E-01
0.191	0.234254	0.21459	2.32E-01	2.24E-01	2.37E-01	2.17E-01	2.34E-01

0.191	0.230627	0.216509	2.28E-01	2.21E-01	2.33E-01	2.19E-01	2.31E-01
0.19	0.227001	0.220275	2.24E-01	2.17E-01	2.29E-01	2.23E-01	2.27E-01
0.188	0.223375	0.225887	2.21E-01	2.12E-01	2.26E-01	2.28E-01	2.23E-01
0.174	0.219749	0.233346	2.17E-01	2.06E-01	2.22E-01	2.36E-01	2.19E-01
0.171	0.209659	0.205216	2.07E-01	2.17E-01	2.12E-01	2.08E-01	2.10E-01
0.163	0.205976	0.201976	2.03E-01	2.15E-01	2.08E-01	2.04E-01	2.06E-01
0.162	0.202292	0.200583	2.00E-01	2.12E-01	2.05E-01	2.03E-01	2.02E-01
0.168	0.198608	0.201036	1.96E-01	2.08E-01	2.01E-01	2.03E-01	1.98E-01
0.165	0.194924	0.203336	1.92E-01	2.02E-01	1.97E-01	2.06E-01	1.95E-01
0.148	0.19124	0.207482	1.89E-01	1.96E-01	1.94E-01	2.10E-01	1.91E-01
0.148	0.153219	0.176845	1.51E-01	1.79E-01	1.56E-01	1.79E-01	1.53E-01
0.139	0.149419	0.16698	1.47E-01	1.77E-01	1.52E-01	1.69E-01	1.49E-01
0.139	0.14562	0.158962	1.43E-01	1.74E-01	1.48E-01	1.61E-01	1.46E-01
0.138	0.141821	0.15279	1.39E-01	1.70E-01	1.44E-01	1.55E-01	1.42E-01
0.143	0.138022	0.148464	1.35E-01	1.65E-01	1.40E-01	1.51E-01	1.38E-01
0.101	0.134223	0.145985	1.32E-01	1.59E-01	1.37E-01	1.48E-01	1.34E-01
0.122	0.096778	0.135449	9.41E-02	1.17E-01	9.91E-02	1.38E-01	9.63E-02
0.122	0.092863	0.118959	9.02E-02	1.15E-01	9.52E-02	1.21E-01	9.26E-02
0.119	0.088949	0.104316	8.63E-02	1.12E-01	9.13E-02	1.07E-01	8.88E-02
0.119	0.085034	0.091519	8.23E-02	1.08E-01	8.73E-02	9.38E-02	8.50E-02
0.116	0.08112	0.080568	7.84E-02	1.03E-01	8.34E-02	8.29E-02	8.13E-02
0.091	0.077205	0.071464	7.45E-02	9.65E-02	7.95E-02	7.38E-02	7.75E-02
0.091	0.040337	0.081029	3.76E-02	2.99E-02	4.26E-02	8.33E-02	3.96E-02
0.086	0.036307	0.057914	3.36E-02	2.79E-02	3.86E-02	6.02E-02	3.58E-02
0.084	0.032278	0.036645	2.96E-02	2.49E-02	3.46E-02	3.90E-02	3.21E-02
0.085	0.028248	0.017223	2.56E-02	2.08E-02	3.06E-02	1.95E-02	2.83E-02
0.079	0.024218	-0.00035	2.15E-02	1.56E-02	2.65E-02	1.96E-03	2.45E-02
0.055	0.020188	-0.01608	1.75E-02	9.32E-03	2.25E-02	-1.38E-02	2.08E-02
0.311	0.29219	0.246652	2.89E-01	2.55E-01	2.83E-01	2.37E-01	2.92E-01
0.313	0.288622	0.250037	2.86E-01	2.53E-01	2.79E-01	2.41E-01	2.88E-01
0.314	0.285053	0.255269	2.82E-01	2.50E-01	2.76E-01	2.46E-01	2.85E-01
0.317	0.281485	0.262347	2.79E-01	2.46E-01	2.72E-01	2.53E-01	2.81E-01
0.306	0.277916	0.271272	2.75E-01	2.41E-01	2.69E-01	2.62E-01	2.77E-01
0.281	0.274348	0.282043	2.72E-01	2.35E-01	2.65E-01	2.73E-01	2.73E-01
0.266	0.26397	0.240607	2.61E-01	2.52E-01	2.55E-01	2.31E-01	2.64E-01
0.267	0.260343	0.24068	2.58E-01	2.50E-01	2.51E-01	2.31E-01	2.60E-01
0.268	0.256717	0.242599	2.54E-01	2.47E-01	2.48E-01	2.33E-01	2.56E-01
0.268	0.253091	0.246365	2.50E-01	2.43E-01	2.44E-01	2.37E-01	2.53E-01
0.255	0.249465	0.251977	2.47E-01	2.38E-01	2.40E-01	2.43E-01	2.49E-01
0.239	0.245839	0.259436	2.43E-01	2.32E-01	2.37E-01	2.50E-01	2.45E-01
0.223	0.235749	0.231306	2.33E-01	2.43E-01	2.27E-01	2.22E-01	2.35E-01
0.224	0.232065	0.228066	2.29E-01	2.41E-01	2.23E-01	2.19E-01	2.32E-01
0.225	0.228382	0.226673	2.26E-01	2.38E-01	2.19E-01	2.17E-01	2.28E-01
0.217	0.224698	0.227126	2.22E-01	2.34E-01	2.16E-01	2.18E-01	2.24E-01
0.208	0.221014	0.229426	2.18E-01	2.29E-01	2.12E-01	2.20E-01	2.20E-01
0.201	0.21733	0.233572	2.15E-01	2.22E-01	2.08E-01	2.24E-01	2.17E-01
0.156	0.179309	0.202935	1.77E-01	2.05E-01	1.70E-01	1.94E-01	1.79E-01
0.151	0.175509	0.19307	1.73E-01	2.03E-01	1.66E-01	1.84E-01	1.75E-01

0.155	0.17171	0.185052	1.69E-01	2.00E-01	1.63E-01	1.76E-01	1.71E-01
0.154	0.167911	0.17888	1.65E-01	1.96E-01	1.59E-01	1.70E-01	1.67E-01
0.143	0.164112	0.174554	1.61E-01	1.91E-01	1.55E-01	1.65E-01	1.64E-01
0.141	0.160313	0.172075	1.58E-01	1.85E-01	1.51E-01	1.63E-01	1.60E-01
0.123	0.122868	0.161539	1.20E-01	1.43E-01	1.14E-01	1.52E-01	1.22E-01
0.117	0.118953	0.145049	1.16E-01	1.41E-01	1.10E-01	1.36E-01	1.18E-01
0.117	0.115039	0.130406	1.12E-01	1.38E-01	1.06E-01	1.21E-01	1.14E-01
0.117	0.111124	0.117609	1.08E-01	1.34E-01	1.02E-01	1.08E-01	1.11E-01
0.116	0.10721	0.106658	1.05E-01	1.29E-01	9.80E-02	9.75E-02	1.07E-01
0.109	0.103295	0.097554	1.01E-01	1.23E-01	9.41E-02	8.84E-02	1.03E-01
0.089	0.066427	0.107119	6.37E-02	5.60E-02	5.72E-02	9.79E-02	6.53E-02
0.094	0.062397	0.084004	5.97E-02	5.40E-02	5.32E-02	7.48E-02	6.15E-02
0.093	0.058367	0.062735	5.57E-02	5.10E-02	4.92E-02	5.35E-02	5.77E-02
0.093	0.054338	0.043313	5.16E-02	4.68E-02	4.52E-02	3.41E-02	5.40E-02
0.088	0.050308	0.025737	4.76E-02	4.17E-02	4.11E-02	1.66E-02	5.02E-02
0.071	0.046278	0.010008	4.36E-02	3.54E-02	3.71E-02	8.21E-04	4.64E-02
0.399	0.34437	0.298832	3.42E-01	3.07E-01	3.41E-01	2.96E-01	3.43E-01
0.404	0.340801	0.302217	3.38E-01	3.06E-01	3.38E-01	2.99E-01	3.40E-01
0.401	0.337233	0.307449	3.35E-01	3.02E-01	3.34E-01	3.04E-01	3.36E-01
0.396	0.333665	0.314527	3.31E-01	2.98E-01	3.31E-01	3.12E-01	3.32E-01
0.395	0.330096	0.323452	3.27E-01	2.93E-01	3.27E-01	3.20E-01	3.28E-01
0.378	0.326528	0.334223	3.24E-01	2.87E-01	3.24E-01	3.31E-01	3.25E-01
0.348	0.316149	0.292787	3.13E-01	3.04E-01	3.13E-01	2.90E-01	3.15E-01
0.347	0.312523	0.292859	3.10E-01	3.02E-01	3.10E-01	2.90E-01	3.11E-01
0.346	0.308897	0.294779	3.06E-01	2.99E-01	3.06E-01	2.92E-01	3.08E-01
0.346	0.305271	0.298544	3.03E-01	2.95E-01	3.02E-01	2.96E-01	3.04E-01
0.339	0.301645	0.304157	2.99E-01	2.90E-01	2.99E-01	3.01E-01	3.00E-01
0.299	0.298019	0.311615	2.95E-01	2.84E-01	2.95E-01	3.09E-01	2.96E-01
0.276	0.287929	0.283486	2.85E-01	2.95E-01	2.85E-01	2.80E-01	2.87E-01
0.281	0.284245	0.280246	2.82E-01	2.93E-01	2.81E-01	2.77E-01	2.83E-01
0.282	0.280562	0.278852	2.78E-01	2.90E-01	2.78E-01	2.76E-01	2.79E-01
0.281	0.276878	0.279306	2.74E-01	2.86E-01	2.74E-01	2.76E-01	2.75E-01
0.282	0.273194	0.281605	2.70E-01	2.81E-01	2.70E-01	2.79E-01	2.72E-01
0.261	0.26951	0.285752	2.67E-01	2.74E-01	2.67E-01	2.83E-01	2.68E-01
0.152	0.231488	0.255115	2.29E-01	2.58E-01	2.28E-01	2.52E-01	2.30E-01
0.149	0.227689	0.24525	2.25E-01	2.56E-01	2.25E-01	2.42E-01	2.26E-01
0.148	0.22389	0.237231	2.21E-01	2.53E-01	2.21E-01	2.34E-01	2.22E-01
0.151	0.220091	0.23106	2.17E-01	2.49E-01	2.17E-01	2.28E-01	2.19E-01
0.153	0.216292	0.226734	2.14E-01	2.43E-01	2.13E-01	2.24E-01	2.15E-01
0.144	0.212493	0.224255	2.10E-01	2.37E-01	2.10E-01	2.21E-01	2.11E-01
0.115	0.175048	0.213719	1.72E-01	1.95E-01	1.72E-01	2.11E-01	1.73E-01
0.116	0.171133	0.197229	1.68E-01	1.93E-01	1.68E-01	1.94E-01	1.70E-01
0.119	0.167219	0.182586	1.65E-01	1.90E-01	1.64E-01	1.80E-01	1.66E-01
0.121	0.163304	0.169789	1.61E-01	1.86E-01	1.60E-01	1.67E-01	1.62E-01
0.116	0.15939	0.158838	1.57E-01	1.81E-01	1.56E-01	1.56E-01	1.58E-01
0.109	0.155475	0.149734	1.53E-01	1.75E-01	1.52E-01	1.47E-01	1.54E-01
0.081	0.118607	0.159299	1.16E-01	1.08E-01	1.16E-01	1.56E-01	1.17E-01
0.079	0.114577	0.136184	1.12E-01	1.06E-01	1.12E-01	1.33E-01	1.13E-01

0.08	0.110547	0.114915	1.08E-01	1.03E-01	1.08E-01	1.12E-01	1.09E-01
0.079	0.106517	0.095493	1.04E-01	9.90E-02	1.04E-01	9.25E-02	1.05E-01
0.075	0.102488	0.077917	9.98E-02	9.38E-02	9.95E-02	7.49E-02	1.01E-01
0.066	0.098458	0.062188	9.58E-02	8.76E-02	9.55E-02	5.92E-02	9.77E-02
0.411	0.338897	0.293359	3.36E-01	3.02E-01	3.42E-01	2.97E-01	3.43E-01
0.412	0.335329	0.296744	3.33E-01	3.00E-01	3.39E-01	3.00E-01	3.39E-01
0.411	0.33176	0.301976	3.29E-01	2.97E-01	3.35E-01	3.06E-01	3.35E-01
0.412	0.328192	0.309054	3.26E-01	2.93E-01	3.32E-01	3.13E-01	3.31E-01
0.411	0.324623	0.317979	3.22E-01	2.88E-01	3.28E-01	3.22E-01	3.28E-01
0.408	0.321055	0.32875	3.18E-01	2.81E-01	3.25E-01	3.32E-01	3.24E-01
0.319	0.310677	0.287314	3.08E-01	2.99E-01	3.14E-01	2.91E-01	3.14E-01
0.312	0.30705	0.287387	3.04E-01	2.97E-01	3.11E-01	2.91E-01	3.11E-01
0.318	0.303424	0.289306	3.01E-01	2.94E-01	3.07E-01	2.93E-01	3.07E-01
0.318	0.299798	0.293072	2.97E-01	2.90E-01	3.03E-01	2.97E-01	3.03E-01
0.311	0.296172	0.298684	2.94E-01	2.85E-01	3.00E-01	3.02E-01	2.99E-01
0.31	0.292546	0.306143	2.90E-01	2.78E-01	2.96E-01	3.10E-01	2.95E-01
0.271	0.282456	0.278013	2.80E-01	2.90E-01	2.86E-01	2.82E-01	2.86E-01
0.259	0.278772	0.274773	2.76E-01	2.88E-01	2.82E-01	2.78E-01	2.82E-01
0.264	0.275089	0.27338	2.72E-01	2.85E-01	2.79E-01	2.77E-01	2.78E-01
0.264	0.271405	0.273833	2.69E-01	2.80E-01	2.75E-01	2.77E-01	2.75E-01
0.265	0.267721	0.276133	2.65E-01	2.75E-01	2.71E-01	2.80E-01	2.71E-01
0.241	0.264037	0.280279	2.61E-01	2.69E-01	2.68E-01	2.84E-01	2.67E-01
0.198	0.226016	0.249642	2.23E-01	2.52E-01	2.30E-01	2.53E-01	2.29E-01
0.185	0.222216	0.239777	2.20E-01	2.50E-01	2.26E-01	2.43E-01	2.25E-01
0.186	0.218417	0.231759	2.16E-01	2.47E-01	2.22E-01	2.35E-01	2.22E-01
0.186	0.214618	0.225587	2.12E-01	2.43E-01	2.18E-01	2.29E-01	2.18E-01
0.186	0.210819	0.221261	2.08E-01	2.38E-01	2.14E-01	2.25E-01	2.14E-01
0.181	0.20702	0.218782	2.04E-01	2.32E-01	2.11E-01	2.22E-01	2.10E-01
0.151	0.169575	0.208246	1.67E-01	1.90E-01	1.73E-01	2.12E-01	1.72E-01
0.152	0.16566	0.191756	1.63E-01	1.88E-01	1.69E-01	1.95E-01	1.69E-01
0.15	0.161746	0.177113	1.59E-01	1.85E-01	1.65E-01	1.81E-01	1.65E-01
0.151	0.157831	0.164316	1.55E-01	1.81E-01	1.61E-01	1.68E-01	1.61E-01
0.148	0.153917	0.153365	1.51E-01	1.76E-01	1.57E-01	1.57E-01	1.57E-01
0.141	0.150002	0.144261	1.47E-01	1.69E-01	1.54E-01	1.48E-01	1.54E-01
0.129	0.113134	0.153826	1.10E-01	1.03E-01	1.17E-01	1.57E-01	1.16E-01
0.119	0.109104	0.130711	1.06E-01	1.01E-01	1.13E-01	1.34E-01	1.12E-01
0.118	0.105074	0.109442	1.02E-01	9.77E-02	1.09E-01	1.13E-01	1.08E-01
0.119	0.101045	0.09002	9.84E-02	9.36E-02	1.05E-01	9.35E-02	1.04E-01
0.117	0.097015	0.072444	9.44E-02	8.84E-02	1.01E-01	7.60E-02	1.01E-01
0.079	0.092985	0.056715	9.03E-02	8.21E-02	9.65E-02	6.02E-02	9.69E-02
0.428	0.364987	0.319449	3.62E-01	3.28E-01	3.57E-01	3.11E-01	3.62E-01
0.436	0.361418	0.322834	3.59E-01	3.26E-01	3.53E-01	3.15E-01	3.58E-01
0.437	0.35785	0.328066	3.55E-01	3.23E-01	3.50E-01	3.20E-01	3.54E-01
0.436	0.354282	0.335144	3.52E-01	3.19E-01	3.46E-01	3.27E-01	3.50E-01
0.435	0.350713	0.344069	3.48E-01	3.14E-01	3.43E-01	3.36E-01	3.47E-01
0.432	0.347145	0.35484	3.44E-01	3.08E-01	3.39E-01	3.47E-01	3.43E-01
0.341	0.336767	0.313404	3.34E-01	3.25E-01	3.29E-01	3.05E-01	3.33E-01
0.351	0.33314	0.313476	3.30E-01	3.23E-01	3.25E-01	3.06E-01	3.29E-01

0.352	0.329514	0.315396	3.27E-01	3.20E-01	3.22E-01	3.07E-01	3.26E-01
0.352	0.325888	0.319161	3.23E-01	3.16E-01	3.18E-01	3.11E-01	3.22E-01
0.352	0.322262	0.324774	3.20E-01	3.11E-01	3.14E-01	3.17E-01	3.18E-01
0.334	0.318636	0.332233	3.16E-01	3.04E-01	3.11E-01	3.24E-01	3.14E-01
0.254	0.308546	0.304103	3.06E-01	3.16E-01	3.01E-01	2.96E-01	3.05E-01
0.269	0.304862	0.300863	3.02E-01	3.14E-01	2.97E-01	2.93E-01	3.01E-01
0.266	0.301179	0.29947	2.99E-01	3.11E-01	2.93E-01	2.92E-01	2.97E-01
0.265	0.297495	0.299923	2.95E-01	3.07E-01	2.90E-01	2.92E-01	2.94E-01
0.263	0.293811	0.302222	2.91E-01	3.01E-01	2.86E-01	2.94E-01	2.90E-01
0.233	0.290127	0.306369	2.87E-01	2.95E-01	2.82E-01	2.98E-01	2.86E-01
0.178	0.252105	0.275732	2.49E-01	2.78E-01	2.44E-01	2.68E-01	2.48E-01
0.186	0.248306	0.265867	2.46E-01	2.76E-01	2.40E-01	2.58E-01	2.44E-01
0.184	0.244507	0.257849	2.42E-01	2.73E-01	2.37E-01	2.50E-01	2.41E-01
0.184	0.240708	0.251677	2.38E-01	2.69E-01	2.33E-01	2.44E-01	2.37E-01
0.184	0.236909	0.247351	2.34E-01	2.64E-01	2.29E-01	2.39E-01	2.33E-01
0.152	0.23311	0.244872	2.30E-01	2.58E-01	2.25E-01	2.37E-01	2.29E-01
0.139	0.195665	0.234336	1.93E-01	2.16E-01	1.88E-01	2.26E-01	1.91E-01
0.142	0.19175	0.217846	1.89E-01	2.14E-01	1.84E-01	2.10E-01	1.88E-01
0.148	0.187836	0.203203	1.85E-01	2.11E-01	1.80E-01	1.95E-01	1.84E-01
0.143	0.183921	0.190406	1.81E-01	2.07E-01	1.76E-01	1.82E-01	1.80E-01
0.142	0.180007	0.179455	1.77E-01	2.02E-01	1.72E-01	1.71E-01	1.76E-01
0.122	0.176092	0.170351	1.73E-01	1.95E-01	1.68E-01	1.62E-01	1.73E-01
0.114	0.139224	0.179916	1.37E-01	1.29E-01	1.31E-01	1.72E-01	1.35E-01
0.122	0.135194	0.156801	1.33E-01	1.27E-01	1.27E-01	1.49E-01	1.31E-01
0.121	0.131164	0.135532	1.29E-01	1.24E-01	1.23E-01	1.28E-01	1.27E-01
0.121	0.127134	0.11611	1.24E-01	1.20E-01	1.19E-01	1.08E-01	1.23E-01
0.123	0.123105	0.098534	1.20E-01	1.14E-01	1.15E-01	9.06E-02	1.20E-01
0.077	0.119075	0.082805	1.16E-01	1.08E-01	1.11E-01	7.48E-02	1.16E-01
0.162	0.225258	0.17972	2.32E-01	1.88E-01	2.35E-01	1.89E-01	2.25E-01
0.159	0.221689	0.183105	2.28E-01	1.86E-01	2.31E-01	1.93E-01	2.21E-01
0.161	0.218121	0.188337	2.25E-01	1.83E-01	2.28E-01	1.98E-01	2.17E-01
0.161	0.214553	0.195415	2.21E-01	1.79E-01	2.24E-01	2.05E-01	2.14E-01
0.159	0.210984	0.20434	2.18E-01	1.74E-01	2.20E-01	2.14E-01	2.10E-01
0.158	0.207416	0.215111	2.14E-01	1.68E-01	2.17E-01	2.25E-01	2.06E-01
0.151	0.197037	0.173675	2.04E-01	1.85E-01	2.07E-01	1.83E-01	1.97E-01
0.15	0.193411	0.173747	2.00E-01	1.83E-01	2.03E-01	1.83E-01	1.93E-01
0.147	0.189785	0.175667	1.96E-01	1.80E-01	1.99E-01	1.85E-01	1.89E-01
0.145	0.186159	0.179432	1.93E-01	1.76E-01	1.96E-01	1.89E-01	1.85E-01
0.143	0.182533	0.185045	1.89E-01	1.71E-01	1.92E-01	1.95E-01	1.82E-01
0.141	0.178907	0.192503	1.86E-01	1.65E-01	1.88E-01	2.02E-01	1.78E-01
0.118	0.168817	0.164374	1.75E-01	1.76E-01	1.78E-01	1.74E-01	1.68E-01
0.117	0.165133	0.161134	1.72E-01	1.74E-01	1.75E-01	1.71E-01	1.64E-01
0.116	0.16145	0.15974	1.68E-01	1.71E-01	1.71E-01	1.69E-01	1.61E-01
0.117	0.157766	0.160194	1.64E-01	1.67E-01	1.67E-01	1.70E-01	1.57E-01
0.119	0.154082	0.162493	1.61E-01	1.62E-01	1.64E-01	1.72E-01	1.53E-01
0.101	0.150398	0.16664	1.57E-01	1.55E-01	1.60E-01	1.76E-01	1.49E-01
0.091	0.112376	0.136003	1.19E-01	1.39E-01	1.22E-01	1.46E-01	1.12E-01
0.096	0.108577	0.126138	1.15E-01	1.37E-01	1.18E-01	1.36E-01	1.08E-01

0.095	0.104778	0.118119	1.11E-01	1.34E-01	1.14E-01	1.28E-01	1.04E-01
0.095	0.100979	0.111948	1.08E-01	1.29E-01	1.10E-01	1.21E-01	1.00E-01
0.094	0.09718	0.107622	1.04E-01	1.24E-01	1.07E-01	1.17E-01	9.64E-02
0.071	0.093381	0.105143	1.00E-01	1.18E-01	1.03E-01	1.15E-01	9.27E-02
0.072	0.055936	0.094607	6.26E-02	7.62E-02	6.54E-02	1.04E-01	5.48E-02
0.068	0.052021	0.078117	5.87E-02	7.43E-02	6.15E-02	8.76E-02	5.10E-02
0.067	0.048107	0.063474	5.47E-02	7.12E-02	5.76E-02	7.30E-02	4.72E-02
0.066	0.044192	0.050677	5.08E-02	6.71E-02	5.37E-02	6.02E-02	4.35E-02
0.067	0.040278	0.039726	4.69E-02	6.19E-02	4.98E-02	4.92E-02	3.97E-02
0.044	0.036363	0.030622	4.30E-02	5.57E-02	4.59E-02	4.01E-02	3.59E-02
0.036	-0.0005	0.040187	6.13E-03	-1.10E-02	9.01E-03	4.97E-02	-1.94E-03
0.034	-0.00453	0.017072	2.10E-03	-1.29E-02	4.98E-03	2.66E-02	-5.71E-03
0.035	-0.00856	-0.0042	-1.93E-03	-1.60E-02	9.47E-04	5.32E-03	-9.48E-03
0.034	-0.01259	-0.02362	-5.96E-03	-2.01E-02	-3.08E-03	-1.41E-02	-1.33E-02
0.031	-0.01662	-0.04119	-9.99E-03	-2.53E-02	-7.11E-03	-3.17E-02	-1.70E-02
0.021	-0.02065	-0.05692	-1.40E-02	-3.15E-02	-1.11E-02	-4.74E-02	-2.08E-02
0.227	0.251348	0.205809	2.58E-01	2.14E-01	2.49E-01	2.04E-01	2.52E-01
0.226	0.247779	0.209195	2.54E-01	2.12E-01	2.46E-01	2.07E-01	2.48E-01
0.226	0.244211	0.214427	2.51E-01	2.09E-01	2.42E-01	2.12E-01	2.45E-01
0.226	0.240642	0.221505	2.47E-01	2.05E-01	2.39E-01	2.20E-01	2.41E-01
0.225	0.237074	0.23043	2.44E-01	2.00E-01	2.35E-01	2.28E-01	2.37E-01
0.193	0.233506	0.241201	2.40E-01	1.94E-01	2.32E-01	2.39E-01	2.33E-01
0.195	0.223127	0.199765	2.30E-01	2.11E-01	2.21E-01	1.98E-01	2.24E-01
0.195	0.219501	0.199837	2.26E-01	2.09E-01	2.18E-01	1.98E-01	2.20E-01
0.195	0.215875	0.201757	2.23E-01	2.06E-01	2.14E-01	2.00E-01	2.16E-01
0.191	0.212249	0.205522	2.19E-01	2.02E-01	2.10E-01	2.04E-01	2.12E-01
0.189	0.208623	0.211135	2.15E-01	1.97E-01	2.07E-01	2.09E-01	2.09E-01
0.173	0.204997	0.218593	2.12E-01	1.91E-01	2.03E-01	2.17E-01	2.05E-01
0.166	0.194907	0.190464	2.02E-01	2.02E-01	1.93E-01	1.88E-01	1.95E-01
0.168	0.191223	0.187224	1.98E-01	2.00E-01	1.89E-01	1.85E-01	1.92E-01
0.168	0.187539	0.18583	1.94E-01	1.97E-01	1.86E-01	1.84E-01	1.88E-01
0.167	0.183856	0.186284	1.90E-01	1.93E-01	1.82E-01	1.84E-01	1.84E-01
0.161	0.180172	0.188583	1.87E-01	1.88E-01	1.78E-01	1.87E-01	1.80E-01
0.141	0.176488	0.19273	1.83E-01	1.81E-01	1.75E-01	1.91E-01	1.76E-01
0.141	0.138466	0.162093	1.45E-01	1.65E-01	1.36E-01	1.60E-01	1.39E-01
0.141	0.134667	0.152228	1.41E-01	1.63E-01	1.33E-01	1.50E-01	1.35E-01
0.142	0.130868	0.144209	1.38E-01	1.60E-01	1.29E-01	1.42E-01	1.31E-01
0.143	0.127069	0.138037	1.34E-01	1.56E-01	1.25E-01	1.36E-01	1.27E-01
0.137	0.12327	0.133712	1.30E-01	1.50E-01	1.21E-01	1.32E-01	1.24E-01
0.126	0.119471	0.131233	1.26E-01	1.44E-01	1.17E-01	1.29E-01	1.20E-01
0.124	0.082026	0.120697	8.87E-02	1.02E-01	8.00E-02	1.19E-01	8.19E-02
0.124	0.078111	0.104207	8.47E-02	1.00E-01	7.61E-02	1.02E-01	7.81E-02
0.123	0.074197	0.089564	8.08E-02	9.73E-02	7.22E-02	8.76E-02	7.43E-02
0.123	0.070282	0.076767	7.69E-02	9.32E-02	6.83E-02	7.48E-02	7.06E-02
0.115	0.066368	0.065816	7.30E-02	8.80E-02	6.44E-02	6.38E-02	6.68E-02
0.101	0.062453	0.056712	6.91E-02	8.18E-02	6.05E-02	5.47E-02	6.30E-02
0.084	0.025585	0.066277	3.22E-02	1.51E-02	2.36E-02	6.43E-02	2.52E-02
0.083	0.021555	0.043162	2.82E-02	1.32E-02	1.96E-02	4.12E-02	2.14E-02

0.083	0.017525	0.021893	2.42E-02	1.01E-02	1.55E-02	1.99E-02	1.76E-02
0.082	0.013495	0.002471	2.01E-02	6.00E-03	1.15E-02	4.87E-04	1.38E-02
0.079	0.009465	-0.0151	1.61E-02	8.22E-04	7.48E-03	-1.71E-02	1.01E-02
0.047	0.005436	-0.03083	1.21E-02	-5.43E-03	3.45E-03	-3.28E-02	6.31E-03
0.315	0.303528	0.257989	3.10E-01	2.67E-01	3.08E-01	2.62E-01	3.06E-01
0.314	0.299959	0.261375	3.07E-01	2.65E-01	3.04E-01	2.66E-01	3.03E-01
0.311	0.296391	0.266606	3.03E-01	2.62E-01	3.01E-01	2.71E-01	2.99E-01
0.308	0.292822	0.273685	2.99E-01	2.58E-01	2.97E-01	2.78E-01	2.95E-01
0.308	0.289254	0.28261	2.96E-01	2.52E-01	2.93E-01	2.87E-01	2.91E-01
0.307	0.285685	0.293381	2.92E-01	2.46E-01	2.90E-01	2.98E-01	2.87E-01
0.289	0.275307	0.251944	2.82E-01	2.64E-01	2.80E-01	2.56E-01	2.78E-01
0.288	0.271681	0.252017	2.78E-01	2.62E-01	2.76E-01	2.56E-01	2.74E-01
0.281	0.268055	0.253936	2.75E-01	2.59E-01	2.72E-01	2.58E-01	2.70E-01
0.274	0.264429	0.257702	2.71E-01	2.54E-01	2.69E-01	2.62E-01	2.67E-01
0.263	0.260803	0.263314	2.67E-01	2.49E-01	2.65E-01	2.68E-01	2.63E-01
0.255	0.257177	0.270773	2.64E-01	2.43E-01	2.61E-01	2.75E-01	2.59E-01
0.185	0.247087	0.242643	2.54E-01	2.54E-01	2.51E-01	2.47E-01	2.50E-01
0.184	0.243403	0.239404	2.50E-01	2.52E-01	2.48E-01	2.44E-01	2.46E-01
0.183	0.239719	0.23801	2.46E-01	2.49E-01	2.44E-01	2.42E-01	2.42E-01
0.182	0.236036	0.238463	2.43E-01	2.45E-01	2.40E-01	2.43E-01	2.38E-01
0.182	0.232352	0.240763	2.39E-01	2.40E-01	2.37E-01	2.45E-01	2.34E-01
0.176	0.228668	0.244909	2.35E-01	2.34E-01	2.33E-01	2.49E-01	2.31E-01
0.147	0.190646	0.214273	1.97E-01	2.17E-01	1.95E-01	2.18E-01	1.93E-01
0.147	0.186847	0.204408	1.93E-01	2.15E-01	1.91E-01	2.09E-01	1.89E-01
0.146	0.183048	0.196389	1.90E-01	2.12E-01	1.87E-01	2.01E-01	1.85E-01
0.145	0.179249	0.190217	1.86E-01	2.08E-01	1.83E-01	1.94E-01	1.82E-01
0.141	0.17545	0.185892	1.82E-01	2.03E-01	1.80E-01	1.90E-01	1.78E-01
0.139	0.17165	0.183413	1.78E-01	1.96E-01	1.76E-01	1.88E-01	1.74E-01
0.114	0.134206	0.172877	1.41E-01	1.55E-01	1.38E-01	1.77E-01	1.36E-01
0.114	0.130291	0.156387	1.37E-01	1.53E-01	1.35E-01	1.61E-01	1.32E-01
0.113	0.126377	0.141743	1.33E-01	1.50E-01	1.31E-01	1.46E-01	1.29E-01
0.113	0.122462	0.128946	1.29E-01	1.45E-01	1.27E-01	1.33E-01	1.25E-01
0.111	0.118547	0.117996	1.25E-01	1.40E-01	1.23E-01	1.22E-01	1.21E-01
0.101	0.114633	0.108892	1.21E-01	1.34E-01	1.19E-01	1.13E-01	1.17E-01
0.088	0.077765	0.118457	8.44E-02	6.73E-02	8.20E-02	1.23E-01	7.94E-02
0.079	0.073735	0.095341	8.04E-02	6.53E-02	7.79E-02	9.96E-02	7.56E-02
0.082	0.069705	0.074073	7.63E-02	6.23E-02	7.39E-02	7.83E-02	7.18E-02
0.083	0.065675	0.054651	7.23E-02	5.82E-02	6.99E-02	5.89E-02	6.81E-02
0.081	0.061645	0.037075	6.83E-02	5.30E-02	6.59E-02	4.13E-02	6.43E-02
0.059	0.057615	0.021346	6.42E-02	4.67E-02	6.18E-02	2.56E-02	6.05E-02
0.218	0.241141	0.195602	2.48E-01	2.04E-01	2.43E-01	1.98E-01	2.42E-01
0.221	0.237572	0.198988	2.44E-01	2.02E-01	2.40E-01	2.01E-01	2.38E-01
0.221	0.234004	0.20422	2.41E-01	1.99E-01	2.36E-01	2.07E-01	2.34E-01
0.221	0.230436	0.211298	2.37E-01	1.95E-01	2.33E-01	2.14E-01	2.30E-01
0.22	0.226867	0.220223	2.34E-01	1.90E-01	2.29E-01	2.23E-01	2.26E-01
0.211	0.223299	0.230994	2.30E-01	1.84E-01	2.26E-01	2.33E-01	2.23E-01
0.194	0.21292	0.189558	2.20E-01	2.01E-01	2.15E-01	1.92E-01	2.13E-01
0.197	0.209294	0.18963	2.16E-01	1.99E-01	2.12E-01	1.92E-01	2.09E-01

0.201	0.205668	0.19155	2.12E-01	1.96E-01	2.08E-01	1.94E-01	2.06E-01
0.195	0.202042	0.195315	2.09E-01	1.92E-01	2.04E-01	1.98E-01	2.02E-01
0.181	0.198416	0.200928	2.05E-01	1.87E-01	2.01E-01	2.03E-01	1.98E-01
0.181	0.19479	0.208386	2.01E-01	1.81E-01	1.97E-01	2.11E-01	1.94E-01
0.177	0.1847	0.180257	1.91E-01	1.92E-01	1.87E-01	1.83E-01	1.85E-01
0.183	0.181016	0.177017	1.88E-01	1.90E-01	1.83E-01	1.79E-01	1.81E-01
0.183	0.177333	0.175623	1.84E-01	1.87E-01	1.80E-01	1.78E-01	1.77E-01
0.183	0.173649	0.176077	1.80E-01	1.83E-01	1.76E-01	1.78E-01	1.74E-01
0.171	0.169965	0.178376	1.77E-01	1.77E-01	1.72E-01	1.81E-01	1.70E-01
0.156	0.166281	0.182523	1.73E-01	1.71E-01	1.69E-01	1.85E-01	1.66E-01
0.122	0.128259	0.151886	1.35E-01	1.54E-01	1.31E-01	1.54E-01	1.28E-01
0.122	0.12446	0.142021	1.31E-01	1.52E-01	1.27E-01	1.44E-01	1.24E-01
0.122	0.120661	0.134002	1.27E-01	1.49E-01	1.23E-01	1.36E-01	1.21E-01
0.121	0.116862	0.127831	1.24E-01	1.45E-01	1.19E-01	1.30E-01	1.17E-01
0.119	0.113063	0.123505	1.20E-01	1.40E-01	1.15E-01	1.26E-01	1.13E-01
0.105	0.109264	0.121026	1.16E-01	1.34E-01	1.12E-01	1.23E-01	1.09E-01
0.102	0.071819	0.11049	7.85E-02	9.21E-02	7.41E-02	1.13E-01	7.14E-02
0.103	0.067904	0.094	7.45E-02	9.02E-02	7.02E-02	9.63E-02	6.76E-02
0.101	0.06399	0.079357	7.06E-02	8.71E-02	6.63E-02	8.17E-02	6.38E-02
0.098	0.060075	0.06656	6.67E-02	8.30E-02	6.24E-02	6.89E-02	6.01E-02
0.097	0.056161	0.055609	6.28E-02	7.78E-02	5.85E-02	5.79E-02	5.63E-02
0.078	0.052246	0.046505	5.89E-02	7.16E-02	5.46E-02	4.88E-02	5.25E-02
0.077	0.015378	0.05607	2.20E-02	4.91E-03	1.77E-02	5.84E-02	1.47E-02
0.075	0.011348	0.032955	1.80E-02	2.94E-03	1.37E-02	3.53E-02	1.09E-02
0.073	0.007318	0.011686	1.40E-02	-9.33E-05	9.63E-03	1.40E-02	7.12E-03
0.068	0.003288	-0.00774	9.93E-03	-4.20E-03	5.60E-03	-5.42E-03	3.35E-03
0.065	-0.00074	-0.02531	5.90E-03	-9.38E-03	1.57E-03	-2.30E-02	-4.21E-04
0.049	-0.00477	-0.04104	1.87E-03	-1.56E-02	-2.45E-03	-3.87E-02	-4.19E-03
0.321	0.267231	0.221692	2.74E-01	2.30E-01	2.58E-01	2.13E-01	2.67E-01
0.316	0.263662	0.225078	2.70E-01	2.28E-01	2.54E-01	2.16E-01	2.63E-01
0.316	0.260094	0.23031	2.67E-01	2.25E-01	2.51E-01	2.21E-01	2.60E-01
0.315	0.256525	0.237388	2.63E-01	2.21E-01	2.47E-01	2.28E-01	2.56E-01
0.311	0.252957	0.246313	2.60E-01	2.16E-01	2.44E-01	2.37E-01	2.52E-01
0.287	0.249389	0.257084	2.56E-01	2.10E-01	2.40E-01	2.48E-01	2.48E-01
0.259	0.23901	0.215648	2.46E-01	2.27E-01	2.30E-01	2.06E-01	2.39E-01
0.255	0.235384	0.21572	2.42E-01	2.25E-01	2.26E-01	2.07E-01	2.35E-01
0.257	0.231758	0.21764	2.38E-01	2.22E-01	2.23E-01	2.08E-01	2.31E-01
0.253	0.228132	0.221405	2.35E-01	2.18E-01	2.19E-01	2.12E-01	2.28E-01
0.251	0.224506	0.227018	2.31E-01	2.13E-01	2.15E-01	2.18E-01	2.24E-01
0.244	0.22088	0.234476	2.28E-01	2.07E-01	2.12E-01	2.25E-01	2.20E-01
0.217	0.21079	0.206347	2.17E-01	2.18E-01	2.02E-01	1.97E-01	2.10E-01
0.211	0.207106	0.203107	2.14E-01	2.16E-01	1.98E-01	1.94E-01	2.07E-01
0.209	0.203422	0.201713	2.10E-01	2.13E-01	1.94E-01	1.93E-01	2.03E-01
0.213	0.199739	0.202167	2.06E-01	2.09E-01	1.91E-01	1.93E-01	1.99E-01
0.204	0.196055	0.204466	2.03E-01	2.04E-01	1.87E-01	1.95E-01	1.95E-01
0.196	0.192371	0.208613	1.99E-01	1.97E-01	1.83E-01	1.99E-01	1.92E-01
0.162	0.154349	0.177976	1.61E-01	1.80E-01	1.45E-01	1.69E-01	1.54E-01
0.155	0.15055	0.168111	1.57E-01	1.79E-01	1.41E-01	1.59E-01	1.50E-01

0.168	0.146751	0.160092	1.53E-01	1.75E-01	1.38E-01	1.51E-01	1.46E-01
0.153	0.142952	0.15392	1.50E-01	1.71E-01	1.34E-01	1.45E-01	1.42E-01
0.149	0.139153	0.149595	1.46E-01	1.66E-01	1.30E-01	1.40E-01	1.39E-01
0.139	0.135354	0.147116	1.42E-01	1.60E-01	1.26E-01	1.38E-01	1.35E-01
0.114	0.097909	0.13658	1.05E-01	1.18E-01	8.87E-02	1.27E-01	9.70E-02
0.115	0.093994	0.12009	1.01E-01	1.16E-01	8.48E-02	1.11E-01	9.33E-02
0.114	0.09008	0.105447	9.67E-02	1.13E-01	8.09E-02	9.63E-02	8.95E-02
0.115	0.086165	0.09265	9.28E-02	1.09E-01	7.70E-02	8.35E-02	8.57E-02
0.108	0.082251	0.081699	8.89E-02	1.04E-01	7.31E-02	7.25E-02	8.20E-02
0.107	0.078336	0.072595	8.50E-02	9.77E-02	6.92E-02	6.34E-02	7.82E-02
0.086	0.041468	0.08216	4.81E-02	3.10E-02	3.23E-02	7.30E-02	4.03E-02
0.086	0.037438	0.059045	4.41E-02	2.90E-02	2.83E-02	4.99E-02	3.65E-02
0.087	0.033408	0.037776	4.00E-02	2.60E-02	2.42E-02	2.86E-02	3.28E-02
0.086	0.029378	0.018354	3.60E-02	2.19E-02	2.02E-02	9.17E-03	2.90E-02
0.075	0.025348	0.000778	3.20E-02	1.67E-02	1.62E-02	-8.40E-03	2.52E-02
0.048	0.021319	-0.01495	2.80E-02	1.05E-02	1.21E-02	-2.41E-02	2.15E-02
0.417	0.319411	0.273872	3.26E-01	2.83E-01	3.16E-01	2.71E-01	3.19E-01
0.419	0.315842	0.277258	3.22E-01	2.81E-01	3.13E-01	2.74E-01	3.15E-01
0.421	0.312274	0.282489	3.19E-01	2.78E-01	3.09E-01	2.80E-01	3.11E-01
0.409	0.308705	0.289568	3.15E-01	2.73E-01	3.06E-01	2.87E-01	3.07E-01
0.415	0.305137	0.298493	3.12E-01	2.68E-01	3.02E-01	2.96E-01	3.03E-01
0.393	0.301568	0.309264	3.08E-01	2.62E-01	2.99E-01	3.06E-01	3.00E-01
0.322	0.29119	0.267827	2.98E-01	2.79E-01	2.88E-01	2.65E-01	2.90E-01
0.306	0.287564	0.2679	2.94E-01	2.77E-01	2.85E-01	2.65E-01	2.86E-01
0.315	0.283938	0.269819	2.91E-01	2.74E-01	2.81E-01	2.67E-01	2.83E-01
0.316	0.280312	0.273585	2.87E-01	2.70E-01	2.77E-01	2.71E-01	2.79E-01
0.315	0.276686	0.279197	2.83E-01	2.65E-01	2.74E-01	2.76E-01	2.75E-01
0.291	0.27306	0.286656	2.80E-01	2.59E-01	2.70E-01	2.84E-01	2.71E-01
0.257	0.26297	0.258526	2.70E-01	2.70E-01	2.60E-01	2.56E-01	2.62E-01
0.256	0.259286	0.255287	2.66E-01	2.68E-01	2.56E-01	2.52E-01	2.58E-01
0.256	0.255602	0.253893	2.62E-01	2.65E-01	2.53E-01	2.51E-01	2.54E-01
0.255	0.251919	0.254346	2.59E-01	2.61E-01	2.49E-01	2.51E-01	2.50E-01
0.259	0.248235	0.256646	2.55E-01	2.56E-01	2.45E-01	2.54E-01	2.47E-01
0.241	0.244551	0.260792	2.51E-01	2.50E-01	2.42E-01	2.58E-01	2.43E-01
0.149	0.206529	0.230156	2.13E-01	2.33E-01	2.04E-01	2.27E-01	2.05E-01
0.148	0.20273	0.220291	2.09E-01	2.31E-01	2.00E-01	2.17E-01	2.01E-01
0.148	0.198931	0.212272	2.06E-01	2.28E-01	1.96E-01	2.09E-01	1.98E-01
0.148	0.195132	0.2061	2.02E-01	2.24E-01	1.92E-01	2.03E-01	1.94E-01
0.146	0.191333	0.201775	1.98E-01	2.18E-01	1.88E-01	1.99E-01	1.90E-01
0.131	0.187533	0.199296	1.94E-01	2.12E-01	1.85E-01	1.96E-01	1.86E-01
0.108	0.150089	0.18876	1.57E-01	1.70E-01	1.47E-01	1.86E-01	1.48E-01
0.109	0.146174	0.17227	1.53E-01	1.68E-01	1.43E-01	1.69E-01	1.45E-01
0.11	0.142259	0.157626	1.49E-01	1.65E-01	1.39E-01	1.55E-01	1.41E-01
0.109	0.138345	0.144829	1.45E-01	1.61E-01	1.35E-01	1.42E-01	1.37E-01
0.108	0.13443	0.133879	1.41E-01	1.56E-01	1.31E-01	1.31E-01	1.33E-01
0.098	0.130516	0.124775	1.37E-01	1.50E-01	1.28E-01	1.22E-01	1.29E-01
0.081	0.093648	0.13434	1.00E-01	8.32E-02	9.07E-02	1.31E-01	9.16E-02
0.08	0.089618	0.111224	9.63E-02	8.12E-02	8.66E-02	1.08E-01	8.78E-02

0.081	0.085588	0.089956	9.22E-02	7.82E-02	8.26E-02	8.70E-02	8.41E-02
0.076	0.081558	0.070534	8.82E-02	7.41E-02	7.86E-02	6.76E-02	8.03E-02
0.075	0.077528	0.052958	8.42E-02	6.89E-02	7.45E-02	5.00E-02	7.65E-02
0.066	0.073498	0.037229	8.01E-02	6.26E-02	7.05E-02	3.42E-02	7.28E-02
0.404	0.313938	0.268399	3.21E-01	2.77E-01	3.17E-01	2.72E-01	3.18E-01
0.403	0.310369	0.271785	3.17E-01	2.75E-01	3.14E-01	2.75E-01	3.14E-01
0.401	0.306801	0.277017	3.13E-01	2.72E-01	3.10E-01	2.81E-01	3.10E-01
0.402	0.303232	0.284095	3.10E-01	2.68E-01	3.07E-01	2.88E-01	3.06E-01
0.405	0.299664	0.29302	3.06E-01	2.63E-01	3.03E-01	2.97E-01	3.03E-01
0.388	0.296096	0.303791	3.03E-01	2.56E-01	3.00E-01	3.07E-01	2.99E-01
0.299	0.285717	0.262355	2.92E-01	2.74E-01	2.89E-01	2.66E-01	2.89E-01
0.298	0.282091	0.262427	2.89E-01	2.72E-01	2.86E-01	2.66E-01	2.86E-01
0.299	0.278465	0.264347	2.85E-01	2.69E-01	2.82E-01	2.68E-01	2.82E-01
0.297	0.274839	0.268112	2.82E-01	2.65E-01	2.78E-01	2.72E-01	2.78E-01
0.296	0.271213	0.273725	2.78E-01	2.60E-01	2.75E-01	2.77E-01	2.74E-01
0.255	0.267587	0.281183	2.74E-01	2.53E-01	2.71E-01	2.85E-01	2.70E-01
0.233	0.257497	0.253054	2.64E-01	2.65E-01	2.61E-01	2.57E-01	2.61E-01
0.233	0.253813	0.249814	2.60E-01	2.63E-01	2.57E-01	2.53E-01	2.57E-01
0.233	0.250129	0.24842	2.57E-01	2.60E-01	2.54E-01	2.52E-01	2.53E-01
0.228	0.246446	0.248874	2.53E-01	2.55E-01	2.50E-01	2.52E-01	2.50E-01
0.227	0.242762	0.251173	2.49E-01	2.50E-01	2.46E-01	2.55E-01	2.46E-01
0.199	0.239078	0.25532	2.46E-01	2.44E-01	2.43E-01	2.59E-01	2.42E-01
0.155	0.201056	0.224683	2.08E-01	2.27E-01	2.05E-01	2.28E-01	2.04E-01
0.148	0.197257	0.214818	2.04E-01	2.25E-01	2.01E-01	2.18E-01	2.00E-01
0.148	0.193458	0.206799	2.00E-01	2.22E-01	1.97E-01	2.10E-01	1.97E-01
0.149	0.189659	0.200627	1.96E-01	2.18E-01	1.93E-01	2.04E-01	1.93E-01
0.152	0.18586	0.196302	1.93E-01	2.13E-01	1.89E-01	2.00E-01	1.89E-01
0.131	0.182061	0.193823	1.89E-01	2.07E-01	1.86E-01	1.97E-01	1.85E-01
0.121	0.144616	0.183287	1.51E-01	1.65E-01	1.48E-01	1.87E-01	1.47E-01
0.119	0.140701	0.166797	1.47E-01	1.63E-01	1.44E-01	1.70E-01	1.44E-01
0.126	0.136787	0.152154	1.43E-01	1.60E-01	1.40E-01	1.56E-01	1.40E-01
0.127	0.132872	0.139357	1.40E-01	1.56E-01	1.36E-01	1.43E-01	1.36E-01
0.122	0.128958	0.128406	1.36E-01	1.51E-01	1.32E-01	1.32E-01	1.32E-01
0.103	0.125043	0.119302	1.32E-01	1.44E-01	1.29E-01	1.23E-01	1.29E-01
0.088	0.088175	0.128867	9.48E-02	7.77E-02	9.17E-02	1.32E-01	9.08E-02
0.087	0.084145	0.105752	9.08E-02	7.57E-02	8.77E-02	1.09E-01	8.70E-02
0.086	0.080115	0.084483	8.68E-02	7.27E-02	8.37E-02	8.80E-02	8.32E-02
0.082	0.076085	0.065061	8.28E-02	6.86E-02	7.96E-02	6.86E-02	7.95E-02
0.077	0.072055	0.047485	7.87E-02	6.34E-02	7.56E-02	5.10E-02	7.57E-02
0.055	0.068026	0.031756	7.47E-02	5.72E-02	7.16E-02	3.53E-02	7.19E-02
0.436	0.340028	0.294489	3.47E-01	3.03E-01	3.32E-01	2.87E-01	3.37E-01
0.431	0.336459	0.297875	3.43E-01	3.01E-01	3.29E-01	2.90E-01	3.33E-01
0.432	0.332891	0.303106	3.40E-01	2.98E-01	3.25E-01	2.95E-01	3.29E-01
0.432	0.329322	0.310185	3.36E-01	2.94E-01	3.21E-01	3.02E-01	3.25E-01
0.431	0.325754	0.31911	3.32E-01	2.89E-01	3.18E-01	3.11E-01	3.22E-01
0.417	0.322186	0.329881	3.29E-01	2.83E-01	3.14E-01	3.22E-01	3.18E-01
0.341	0.311807	0.288444	3.18E-01	3.00E-01	3.04E-01	2.80E-01	3.08E-01
0.335	0.308181	0.288517	3.15E-01	2.98E-01	3.00E-01	2.81E-01	3.05E-01

0.334	0.304555	0.290436	3.11E-01	2.95E-01	2.97E-01	2.82E-01	3.01E-01
0.336	0.300929	0.294202	3.08E-01	2.91E-01	2.93E-01	2.86E-01	2.97E-01
0.332	0.297303	0.299815	3.04E-01	2.86E-01	2.89E-01	2.92E-01	2.93E-01
0.301	0.293677	0.307273	3.00E-01	2.79E-01	2.86E-01	2.99E-01	2.89E-01
0.244	0.283587	0.279143	2.90E-01	2.91E-01	2.76E-01	2.71E-01	2.80E-01
0.246	0.279903	0.275904	2.87E-01	2.89E-01	2.72E-01	2.68E-01	2.76E-01
0.245	0.276219	0.27451	2.83E-01	2.86E-01	2.68E-01	2.67E-01	2.72E-01
0.246	0.272536	0.274963	2.79E-01	2.82E-01	2.65E-01	2.67E-01	2.69E-01
0.244	0.268852	0.277263	2.76E-01	2.76E-01	2.61E-01	2.69E-01	2.65E-01
0.218	0.265168	0.281409	2.72E-01	2.70E-01	2.57E-01	2.73E-01	2.61E-01
0.162	0.227146	0.250773	2.34E-01	2.53E-01	2.19E-01	2.43E-01	2.23E-01
0.153	0.223347	0.240908	2.30E-01	2.51E-01	2.15E-01	2.33E-01	2.19E-01
0.152	0.219548	0.232889	2.26E-01	2.48E-01	2.12E-01	2.25E-01	2.16E-01
0.157	0.215749	0.226717	2.22E-01	2.44E-01	2.08E-01	2.19E-01	2.12E-01
0.158	0.21195	0.222392	2.19E-01	2.39E-01	2.04E-01	2.14E-01	2.08E-01
0.149	0.208151	0.219913	2.15E-01	2.33E-01	2.00E-01	2.12E-01	2.04E-01
0.111	0.170706	0.209377	1.77E-01	1.91E-01	1.63E-01	2.01E-01	1.66E-01
0.106	0.166791	0.192887	1.73E-01	1.89E-01	1.59E-01	1.85E-01	1.63E-01
0.104	0.162877	0.178243	1.70E-01	1.86E-01	1.55E-01	1.70E-01	1.59E-01
0.109	0.158962	0.165446	1.66E-01	1.82E-01	1.51E-01	1.57E-01	1.55E-01
0.104	0.155048	0.154496	1.62E-01	1.77E-01	1.47E-01	1.47E-01	1.51E-01
0.093	0.151133	0.145392	1.58E-01	1.70E-01	1.43E-01	1.37E-01	1.48E-01
0.072	0.114265	0.154957	1.21E-01	1.04E-01	1.06E-01	1.47E-01	1.10E-01
0.08	0.110235	0.131841	1.17E-01	1.02E-01	1.02E-01	1.24E-01	1.06E-01
0.071	0.106205	0.110573	1.13E-01	9.88E-02	9.82E-02	1.03E-01	1.02E-01
0.069	0.102175	0.091151	1.09E-01	9.47E-02	9.42E-02	8.32E-02	9.84E-02
0.071	0.098145	0.073575	1.05E-01	8.95E-02	9.02E-02	6.56E-02	9.47E-02
0.06	0.094116	0.057846	1.01E-01	8.32E-02	8.62E-02	4.99E-02	9.09E-02
0.151	0.208618	0.16308	2.04E-01	1.72E-01	2.18E-01	1.73E-01	2.08E-01
0.147	0.20505	0.166465	2.01E-01	1.70E-01	2.15E-01	1.76E-01	2.05E-01
0.149	0.201481	0.171697	1.97E-01	1.67E-01	2.11E-01	1.81E-01	2.01E-01
0.146	0.197913	0.178775	1.93E-01	1.63E-01	2.07E-01	1.88E-01	1.97E-01
0.148	0.194345	0.1877	1.90E-01	1.57E-01	2.04E-01	1.97E-01	1.93E-01
0.141	0.190776	0.198472	1.86E-01	1.51E-01	2.00E-01	2.08E-01	1.89E-01
0.119	0.180398	0.157035	1.76E-01	1.69E-01	1.90E-01	1.67E-01	1.80E-01
0.115	0.176772	0.157108	1.72E-01	1.67E-01	1.86E-01	1.67E-01	1.76E-01
0.114	0.173146	0.159027	1.69E-01	1.64E-01	1.83E-01	1.69E-01	1.72E-01
0.107	0.16952	0.162793	1.65E-01	1.59E-01	1.79E-01	1.72E-01	1.69E-01
0.108	0.165894	0.168405	1.61E-01	1.54E-01	1.75E-01	1.78E-01	1.65E-01
0.091	0.162267	0.175864	1.58E-01	1.48E-01	1.72E-01	1.85E-01	1.61E-01
0.095	0.152178	0.147734	1.48E-01	1.59E-01	1.62E-01	1.57E-01	1.52E-01
0.088	0.148494	0.144494	1.44E-01	1.57E-01	1.58E-01	1.54E-01	1.48E-01
0.087	0.14481	0.143101	1.40E-01	1.54E-01	1.54E-01	1.53E-01	1.44E-01
0.085	0.141126	0.143554	1.37E-01	1.50E-01	1.51E-01	1.53E-01	1.40E-01
0.084	0.137443	0.145854	1.33E-01	1.45E-01	1.47E-01	1.55E-01	1.37E-01
0.071	0.133759	0.15	1.29E-01	1.39E-01	1.43E-01	1.60E-01	1.33E-01
0.069	0.095737	0.119363	9.12E-02	1.22E-01	1.05E-01	1.29E-01	9.49E-02
0.062	0.091938	0.109498	8.74E-02	1.20E-01	1.01E-01	1.19E-01	9.11E-02

0.061	0.088139	0.10148	8.36E-02	1.17E-01	9.77E-02	1.11E-01	8.73E-02
0.063	0.08434	0.095308	7.98E-02	1.13E-01	9.39E-02	1.05E-01	8.36E-02
0.059	0.08054	0.090983	7.60E-02	1.08E-01	9.01E-02	1.00E-01	7.98E-02
0.052	0.076741	0.088504	7.22E-02	1.01E-01	8.63E-02	9.80E-02	7.60E-02
0.046	0.039296	0.077968	3.48E-02	5.96E-02	4.88E-02	8.75E-02	3.81E-02
0.044	0.035382	0.061478	3.09E-02	5.76E-02	4.49E-02	7.10E-02	3.44E-02
0.043	0.031467	0.046834	2.70E-02	5.46E-02	4.10E-02	5.64E-02	3.06E-02
0.043	0.027553	0.034037	2.30E-02	5.05E-02	3.71E-02	4.36E-02	2.68E-02
0.042	0.023638	0.023087	1.91E-02	4.53E-02	3.32E-02	3.26E-02	2.31E-02
0.033	0.019724	0.013983	1.52E-02	3.90E-02	2.92E-02	2.35E-02	1.93E-02
0.029	-0.01714	0.023547	-2.17E-02	-2.76E-02	-7.63E-03	3.31E-02	-1.86E-02
0.021	-0.02117	0.000432	-2.57E-02	-2.96E-02	-1.17E-02	9.95E-03	-2.24E-02
0.021	-0.0252	-0.02084	-2.97E-02	-3.26E-02	-1.57E-02	-1.13E-02	-2.61E-02
0.021	-0.02923	-0.04026	-3.37E-02	-3.67E-02	-1.97E-02	-3.07E-02	-2.99E-02
0.014	-0.03326	-0.05783	-3.78E-02	-4.19E-02	-2.37E-02	-4.83E-02	-3.37E-02
0.007	-0.03729	-0.07356	-4.18E-02	-4.82E-02	-2.78E-02	-6.40E-02	-3.74E-02
0.223	0.234708	0.18917	2.30E-01	1.98E-01	2.33E-01	1.87E-01	2.35E-01
0.221	0.23114	0.192555	2.27E-01	1.96E-01	2.29E-01	1.91E-01	2.32E-01
0.222	0.227571	0.197787	2.23E-01	1.93E-01	2.26E-01	1.96E-01	2.28E-01
0.223	0.224003	0.204865	2.19E-01	1.89E-01	2.22E-01	2.03E-01	2.24E-01
0.219	0.220435	0.21379	2.16E-01	1.84E-01	2.18E-01	2.12E-01	2.20E-01
0.208	0.216866	0.224562	2.12E-01	1.77E-01	2.15E-01	2.23E-01	2.17E-01
0.177	0.206488	0.183125	2.02E-01	1.95E-01	2.05E-01	1.81E-01	2.07E-01
0.181	0.202862	0.183198	1.98E-01	1.93E-01	2.01E-01	1.81E-01	2.03E-01
0.176	0.199236	0.185117	1.95E-01	1.90E-01	1.97E-01	1.83E-01	2.00E-01
0.175	0.19561	0.188883	1.91E-01	1.86E-01	1.94E-01	1.87E-01	1.96E-01
0.174	0.191984	0.194495	1.87E-01	1.80E-01	1.90E-01	1.93E-01	1.92E-01
0.161	0.188357	0.201954	1.84E-01	1.74E-01	1.86E-01	2.00E-01	1.88E-01
0.134	0.178268	0.173824	1.74E-01	1.85E-01	1.76E-01	1.72E-01	1.79E-01
0.131	0.174584	0.170584	1.70E-01	1.83E-01	1.73E-01	1.69E-01	1.75E-01
0.131	0.1709	0.169191	1.66E-01	1.80E-01	1.69E-01	1.67E-01	1.71E-01
0.129	0.167216	0.169644	1.63E-01	1.76E-01	1.65E-01	1.68E-01	1.67E-01
0.136	0.163532	0.171944	1.59E-01	1.71E-01	1.62E-01	1.70E-01	1.64E-01
0.111	0.159849	0.17609	1.55E-01	1.65E-01	1.58E-01	1.74E-01	1.60E-01
0.105	0.121827	0.145453	1.17E-01	1.48E-01	1.20E-01	1.43E-01	1.22E-01
0.109	0.118028	0.135588	1.14E-01	1.46E-01	1.16E-01	1.34E-01	1.18E-01
0.105	0.114229	0.12757	1.10E-01	1.43E-01	1.12E-01	1.26E-01	1.14E-01
0.103	0.110429	0.121398	1.06E-01	1.39E-01	1.08E-01	1.19E-01	1.11E-01
0.101	0.10663	0.117073	1.02E-01	1.34E-01	1.05E-01	1.15E-01	1.07E-01
0.094	0.102831	0.114594	9.83E-02	1.27E-01	1.01E-01	1.13E-01	1.03E-01
0.077	0.065386	0.104058	6.09E-02	8.57E-02	6.34E-02	1.02E-01	6.52E-02
0.069	0.061472	0.087568	5.70E-02	8.37E-02	5.95E-02	8.56E-02	6.15E-02
0.072	0.057557	0.072924	5.31E-02	8.07E-02	5.56E-02	7.09E-02	5.77E-02
0.071	0.053643	0.060127	4.91E-02	7.66E-02	5.17E-02	5.81E-02	5.39E-02
0.07	0.049728	0.049177	4.52E-02	7.14E-02	4.77E-02	4.72E-02	5.02E-02
0.055	0.045814	0.040073	4.13E-02	6.51E-02	4.38E-02	3.81E-02	4.64E-02
0.028	0.008946	0.049637	4.44E-03	-1.52E-03	6.97E-03	4.77E-02	8.52E-03
0.031	0.004916	0.026522	4.11E-04	-3.49E-03	2.94E-03	2.45E-02	4.75E-03

0.024	0.000886	0.005253	-3.62E-03	-6.53E-03	-1.09E-03	3.27E-03	9.79E-04
0.023	-0.00314	-0.01417	-7.65E-03	-1.06E-02	-5.12E-03	-1.61E-02	-2.79E-03
0.019	-0.00717	-0.03174	-1.17E-02	-1.58E-02	-9.15E-03	-3.37E-02	-6.56E-03
0.011	-0.0112	-0.04747	-1.57E-02	-2.21E-02	-1.32E-02	-4.95E-02	-1.03E-02
0.331	0.286888	0.24135	2.82E-01	2.50E-01	2.91E-01	2.46E-01	2.90E-01
0.324	0.28332	0.244735	2.79E-01	2.48E-01	2.88E-01	2.49E-01	2.86E-01
0.325	0.279751	0.249967	2.75E-01	2.45E-01	2.84E-01	2.54E-01	2.82E-01
0.321	0.276183	0.257045	2.72E-01	2.41E-01	2.80E-01	2.61E-01	2.78E-01
0.323	0.272614	0.26597	2.68E-01	2.36E-01	2.77E-01	2.70E-01	2.75E-01
0.318	0.269046	0.276741	2.65E-01	2.29E-01	2.73E-01	2.81E-01	2.71E-01
0.291	0.258668	0.235305	2.54E-01	2.47E-01	2.63E-01	2.40E-01	2.61E-01
0.286	0.255042	0.235378	2.51E-01	2.45E-01	2.59E-01	2.40E-01	2.58E-01
0.284	0.251416	0.237297	2.47E-01	2.42E-01	2.56E-01	2.42E-01	2.54E-01
0.281	0.247789	0.241063	2.43E-01	2.38E-01	2.52E-01	2.45E-01	2.50E-01
0.275	0.244163	0.246675	2.40E-01	2.33E-01	2.48E-01	2.51E-01	2.46E-01
0.264	0.240537	0.254134	2.36E-01	2.26E-01	2.45E-01	2.58E-01	2.42E-01
0.171	0.230447	0.226004	2.26E-01	2.38E-01	2.35E-01	2.30E-01	2.33E-01
0.159	0.226764	0.222764	2.22E-01	2.36E-01	2.31E-01	2.27E-01	2.29E-01
0.155	0.22308	0.221371	2.19E-01	2.33E-01	2.27E-01	2.26E-01	2.25E-01
0.157	0.219396	0.221824	2.15E-01	2.28E-01	2.24E-01	2.26E-01	2.22E-01
0.151	0.215712	0.224124	2.11E-01	2.23E-01	2.20E-01	2.28E-01	2.18E-01
0.146	0.212029	0.22827	2.08E-01	2.17E-01	2.16E-01	2.32E-01	2.14E-01
0.127	0.174007	0.197633	1.70E-01	2.00E-01	1.78E-01	2.02E-01	1.76E-01
0.119	0.170208	0.187768	1.66E-01	1.98E-01	1.74E-01	1.92E-01	1.72E-01
0.121	0.166408	0.17975	1.62E-01	1.95E-01	1.71E-01	1.84E-01	1.69E-01
0.117	0.162609	0.173578	1.58E-01	1.91E-01	1.67E-01	1.78E-01	1.65E-01
0.111	0.15881	0.169252	1.54E-01	1.86E-01	1.63E-01	1.73E-01	1.61E-01
0.102	0.155011	0.166774	1.51E-01	1.80E-01	1.59E-01	1.71E-01	1.57E-01
0.091	0.117566	0.156238	1.13E-01	1.38E-01	1.22E-01	1.60E-01	1.19E-01
0.075	0.113652	0.139748	1.09E-01	1.36E-01	1.18E-01	1.44E-01	1.16E-01
0.079	0.109737	0.125104	1.05E-01	1.33E-01	1.14E-01	1.29E-01	1.12E-01
0.077	0.105823	0.112307	1.01E-01	1.29E-01	1.10E-01	1.17E-01	1.08E-01
0.076	0.101908	0.101356	9.74E-02	1.24E-01	1.06E-01	1.06E-01	1.04E-01
0.061	0.097993	0.092252	9.35E-02	1.17E-01	1.02E-01	9.65E-02	1.01E-01
0.042	0.061125	0.101817	5.66E-02	5.07E-02	6.53E-02	1.06E-01	6.27E-02
0.036	0.057096	0.078702	5.26E-02	4.87E-02	6.13E-02	8.29E-02	5.90E-02
0.033	0.053066	0.057433	4.86E-02	4.57E-02	5.73E-02	6.17E-02	5.52E-02
0.029	0.049036	0.038011	4.45E-02	4.15E-02	5.33E-02	4.22E-02	5.14E-02
0.029	0.045006	0.020435	4.05E-02	3.64E-02	4.92E-02	2.47E-02	4.76E-02
0.011	0.040976	0.004706	3.65E-02	3.01E-02	4.52E-02	8.93E-03	4.39E-02
0.236	0.224501	0.178963	2.20E-01	1.88E-01	2.27E-01	1.81E-01	2.25E-01
0.233	0.220933	0.182348	2.16E-01	1.86E-01	2.23E-01	1.85E-01	2.21E-01
0.237	0.217364	0.18758	2.13E-01	1.83E-01	2.20E-01	1.90E-01	2.17E-01
0.233	0.213796	0.194658	2.09E-01	1.78E-01	2.16E-01	1.97E-01	2.14E-01
0.233	0.210228	0.203583	2.06E-01	1.73E-01	2.13E-01	2.06E-01	2.10E-01
0.234	0.206659	0.214355	2.02E-01	1.67E-01	2.09E-01	2.17E-01	2.06E-01
0.181	0.196281	0.172918	1.92E-01	1.84E-01	1.99E-01	1.75E-01	1.97E-01
0.173	0.192655	0.172991	1.88E-01	1.83E-01	1.95E-01	1.75E-01	1.93E-01

0.172	0.189029	0.17491	1.85E-01	1.79E-01	1.91E-01	1.77E-01	1.89E-01
0.168	0.185403	0.178676	1.81E-01	1.75E-01	1.88E-01	1.81E-01	1.85E-01
0.163	0.181777	0.184288	1.77E-01	1.70E-01	1.84E-01	1.87E-01	1.81E-01
0.159	0.17815	0.191747	1.74E-01	1.64E-01	1.80E-01	1.94E-01	1.78E-01
0.132	0.168061	0.163617	1.64E-01	1.75E-01	1.70E-01	1.66E-01	1.68E-01
0.131	0.164377	0.160377	1.60E-01	1.73E-01	1.67E-01	1.63E-01	1.64E-01
0.124	0.160693	0.158984	1.56E-01	1.70E-01	1.63E-01	1.61E-01	1.61E-01
0.135	0.157009	0.159437	1.53E-01	1.66E-01	1.59E-01	1.62E-01	1.57E-01
0.125	0.153325	0.161737	1.49E-01	1.61E-01	1.56E-01	1.64E-01	1.53E-01
0.119	0.149642	0.165883	1.45E-01	1.55E-01	1.52E-01	1.68E-01	1.49E-01
0.095	0.11162	0.135246	1.07E-01	1.38E-01	1.14E-01	1.38E-01	1.11E-01
0.099	0.107821	0.125381	1.03E-01	1.36E-01	1.10E-01	1.28E-01	1.08E-01
0.098	0.104022	0.117363	9.95E-02	1.33E-01	1.06E-01	1.20E-01	1.04E-01
0.102	0.100222	0.111191	9.57E-02	1.29E-01	1.03E-01	1.14E-01	1.00E-01
0.087	0.096423	0.106866	9.19E-02	1.23E-01	9.87E-02	1.09E-01	9.64E-02
0.083	0.092624	0.104387	8.81E-02	1.17E-01	9.49E-02	1.07E-01	9.26E-02
0.06	0.055179	0.093851	5.07E-02	7.55E-02	5.75E-02	9.62E-02	5.48E-02
0.066	0.051265	0.077361	4.68E-02	7.35E-02	5.36E-02	7.97E-02	5.10E-02
0.055	0.04735	0.062717	4.29E-02	7.05E-02	4.97E-02	6.50E-02	4.72E-02
0.068	0.043436	0.04992	3.89E-02	6.64E-02	4.58E-02	5.22E-02	4.34E-02
0.052	0.039521	0.03897	3.50E-02	6.12E-02	4.18E-02	4.13E-02	3.97E-02
0.041	0.035607	0.029866	3.11E-02	5.49E-02	3.79E-02	3.22E-02	3.59E-02
0.022	-0.00126	0.03943	-5.76E-03	-1.17E-02	1.06E-03	4.18E-02	-1.98E-03
0.023	-0.00529	0.016315	-9.79E-03	-1.37E-02	-2.97E-03	1.86E-02	-5.75E-03
0.021	-0.00932	-0.00495	-1.38E-02	-1.67E-02	-7.00E-03	-2.63E-03	-9.52E-03
0.029	-0.01335	-0.02438	-1.78E-02	-2.08E-02	-1.10E-02	-2.21E-02	-1.33E-02
0.019	-0.01738	-0.04195	-2.19E-02	-2.60E-02	-1.51E-02	-3.96E-02	-1.71E-02
0.009	-0.02141	-0.05768	-2.59E-02	-3.23E-02	-1.91E-02	-5.54E-02	-2.08E-02
0.326	0.250591	0.205053	2.46E-01	2.14E-01	2.41E-01	1.96E-01	2.51E-01
0.322	0.247023	0.208438	2.43E-01	2.12E-01	2.38E-01	1.99E-01	2.47E-01
0.323	0.243454	0.21367	2.39E-01	2.09E-01	2.34E-01	2.04E-01	2.43E-01
0.327	0.239886	0.220748	2.35E-01	2.05E-01	2.31E-01	2.12E-01	2.39E-01
0.321	0.236318	0.229673	2.32E-01	1.99E-01	2.27E-01	2.20E-01	2.36E-01
0.319	0.232749	0.240445	2.28E-01	1.93E-01	2.24E-01	2.31E-01	2.32E-01
0.221	0.222371	0.199008	2.18E-01	2.11E-01	2.13E-01	1.90E-01	2.22E-01
0.229	0.218745	0.199081	2.14E-01	2.09E-01	2.10E-01	1.90E-01	2.18E-01
0.228	0.215119	0.201	2.11E-01	2.06E-01	2.06E-01	1.92E-01	2.15E-01
0.224	0.211493	0.204766	2.07E-01	2.01E-01	2.02E-01	1.96E-01	2.11E-01
0.216	0.207866	0.210378	2.03E-01	1.96E-01	1.99E-01	2.01E-01	2.07E-01
0.205	0.20424	0.217837	2.00E-01	1.90E-01	1.95E-01	2.09E-01	2.03E-01
0.161	0.194151	0.189707	1.90E-01	2.01E-01	1.85E-01	1.81E-01	1.94E-01
0.157	0.190467	0.186467	1.86E-01	1.99E-01	1.81E-01	1.77E-01	1.90E-01
0.158	0.186783	0.185074	1.82E-01	1.96E-01	1.78E-01	1.76E-01	1.86E-01
0.159	0.183099	0.185527	1.79E-01	1.92E-01	1.74E-01	1.76E-01	1.83E-01
0.161	0.179415	0.187827	1.75E-01	1.87E-01	1.70E-01	1.79E-01	1.79E-01
0.144	0.175732	0.191973	1.71E-01	1.81E-01	1.67E-01	1.83E-01	1.75E-01
0.119	0.13771	0.161336	1.33E-01	1.64E-01	1.29E-01	1.52E-01	1.37E-01
0.117	0.133911	0.151471	1.29E-01	1.62E-01	1.25E-01	1.42E-01	1.33E-01

0.118	0.130112	0.143453	1.26E-01	1.59E-01	1.21E-01	1.34E-01	1.30E-01
0.116	0.126312	0.137281	1.22E-01	1.55E-01	1.17E-01	1.28E-01	1.26E-01
0.113	0.122513	0.132956	1.18E-01	1.50E-01	1.13E-01	1.24E-01	1.22E-01
0.107	0.118714	0.130477	1.14E-01	1.43E-01	1.10E-01	1.21E-01	1.18E-01
0.088	0.081269	0.119941	7.68E-02	1.02E-01	7.21E-02	1.11E-01	8.04E-02
0.083	0.077355	0.103451	7.29E-02	9.96E-02	6.82E-02	9.43E-02	7.66E-02
0.079	0.07344	0.088807	6.89E-02	9.66E-02	6.43E-02	7.96E-02	7.29E-02
0.085	0.069526	0.07601	6.50E-02	9.25E-02	6.04E-02	6.68E-02	6.91E-02
0.085	0.065611	0.06506	6.11E-02	8.73E-02	5.64E-02	5.59E-02	6.53E-02
0.071	0.061697	0.055956	5.72E-02	8.10E-02	5.25E-02	4.68E-02	6.15E-02
0.044	0.024828	0.06552	2.03E-02	1.44E-02	1.57E-02	5.63E-02	2.37E-02
0.039	0.020799	0.042405	1.63E-02	1.24E-02	1.16E-02	3.32E-02	1.99E-02
0.037	0.016769	0.021136	1.23E-02	9.36E-03	7.59E-03	1.20E-02	1.61E-02
0.031	0.012739	0.001714	8.24E-03	5.25E-03	3.56E-03	-7.46E-03	1.24E-02
0.027	0.008709	-0.01586	4.21E-03	6.60E-05	-4.65E-04	-2.50E-02	8.59E-03
0.021	0.004679	-0.03159	1.81E-04	-6.19E-03	-4.50E-03	-4.08E-02	4.82E-03
0.431	0.302771	0.257233	2.98E-01	2.66E-01	3.00E-01	2.54E-01	3.02E-01
0.424	0.299203	0.260618	2.95E-01	2.64E-01	2.96E-01	2.58E-01	2.98E-01
0.425	0.295634	0.26585	2.91E-01	2.61E-01	2.93E-01	2.63E-01	2.94E-01
0.421	0.292066	0.272928	2.88E-01	2.57E-01	2.89E-01	2.70E-01	2.91E-01
0.406	0.288497	0.281853	2.84E-01	2.52E-01	2.86E-01	2.79E-01	2.87E-01
0.4	0.284929	0.292624	2.80E-01	2.45E-01	2.82E-01	2.90E-01	2.83E-01
0.261	0.274551	0.251188	2.70E-01	2.63E-01	2.72E-01	2.48E-01	2.74E-01
0.254	0.270925	0.251261	2.66E-01	2.61E-01	2.68E-01	2.48E-01	2.70E-01
0.255	0.267299	0.25318	2.63E-01	2.58E-01	2.64E-01	2.50E-01	2.66E-01
0.256	0.263672	0.256946	2.59E-01	2.54E-01	2.61E-01	2.54E-01	2.62E-01
0.251	0.260046	0.262558	2.56E-01	2.48E-01	2.57E-01	2.60E-01	2.58E-01
0.239	0.25642	0.270017	2.52E-01	2.42E-01	2.53E-01	2.67E-01	2.55E-01
0.173	0.24633	0.241887	2.42E-01	2.53E-01	2.43E-01	2.39E-01	2.45E-01
0.163	0.242647	0.238647	2.38E-01	2.51E-01	2.40E-01	2.36E-01	2.41E-01
0.162	0.238963	0.237254	2.34E-01	2.48E-01	2.36E-01	2.34E-01	2.38E-01
0.159	0.235279	0.237707	2.31E-01	2.44E-01	2.32E-01	2.35E-01	2.34E-01
0.163	0.231595	0.240007	2.27E-01	2.39E-01	2.29E-01	2.37E-01	2.30E-01
0.152	0.227911	0.244153	2.23E-01	2.33E-01	2.25E-01	2.41E-01	2.26E-01
0.121	0.18989	0.213516	1.85E-01	2.16E-01	1.87E-01	2.11E-01	1.88E-01
0.119	0.186091	0.203651	1.82E-01	2.14E-01	1.83E-01	2.01E-01	1.85E-01
0.114	0.182291	0.195633	1.78E-01	2.11E-01	1.79E-01	1.93E-01	1.81E-01
0.115	0.178492	0.189461	1.74E-01	2.07E-01	1.76E-01	1.86E-01	1.77E-01
0.116	0.174693	0.185135	1.70E-01	2.02E-01	1.72E-01	1.82E-01	1.73E-01
0.104	0.170894	0.182657	1.66E-01	1.95E-01	1.68E-01	1.80E-01	1.70E-01
0.083	0.133449	0.172121	1.29E-01	1.54E-01	1.30E-01	1.69E-01	1.32E-01
0.079	0.129535	0.15563	1.25E-01	1.52E-01	1.27E-01	1.53E-01	1.28E-01
0.081	0.12562	0.140987	1.21E-01	1.49E-01	1.23E-01	1.38E-01	1.24E-01
0.083	0.121705	0.12819	1.17E-01	1.45E-01	1.19E-01	1.25E-01	1.20E-01
0.082	0.117791	0.117239	1.13E-01	1.39E-01	1.15E-01	1.14E-01	1.17E-01
0.056	0.113876	0.108135	1.09E-01	1.33E-01	1.11E-01	1.05E-01	1.13E-01
0.033	0.077008	0.1177	7.25E-02	6.65E-02	7.40E-02	1.15E-01	7.50E-02
0.036	0.072978	0.094585	6.85E-02	6.46E-02	7.00E-02	9.16E-02	7.12E-02

0.037	0.068949	0.073316	6.45E-02	6.15E-02	6.60E-02	7.03E-02	6.74E-02
0.025	0.064919	0.053894	6.04E-02	5.74E-02	6.19E-02	5.09E-02	6.37E-02
0.024	0.060889	0.036318	5.64E-02	5.22E-02	5.79E-02	3.33E-02	5.99E-02
0.021	0.056859	0.020589	5.24E-02	4.60E-02	5.39E-02	1.76E-02	5.61E-02
0.423	0.297298	0.25176	2.93E-01	2.60E-01	3.01E-01	2.55E-01	3.01E-01
0.419	0.29373	0.255145	2.89E-01	2.58E-01	2.97E-01	2.59E-01	2.97E-01
0.411	0.290161	0.260377	2.86E-01	2.55E-01	2.94E-01	2.64E-01	2.94E-01
0.408	0.286593	0.267455	2.82E-01	2.51E-01	2.90E-01	2.71E-01	2.90E-01
0.402	0.283025	0.27638	2.79E-01	2.46E-01	2.87E-01	2.80E-01	2.86E-01
0.395	0.279456	0.287152	2.75E-01	2.40E-01	2.83E-01	2.91E-01	2.82E-01
0.272	0.269078	0.245715	2.65E-01	2.57E-01	2.73E-01	2.49E-01	2.73E-01
0.269	0.265452	0.245788	2.61E-01	2.55E-01	2.69E-01	2.49E-01	2.69E-01
0.271	0.261826	0.247707	2.57E-01	2.52E-01	2.65E-01	2.51E-01	2.65E-01
0.266	0.2582	0.251473	2.54E-01	2.48E-01	2.62E-01	2.55E-01	2.61E-01
0.261	0.254573	0.257085	2.50E-01	2.43E-01	2.58E-01	2.61E-01	2.58E-01
0.253	0.250947	0.264544	2.46E-01	2.37E-01	2.54E-01	2.68E-01	2.54E-01
0.165	0.240858	0.236414	2.36E-01	2.48E-01	2.44E-01	2.40E-01	2.44E-01
0.166	0.237174	0.233174	2.33E-01	2.46E-01	2.41E-01	2.37E-01	2.41E-01
0.177	0.23349	0.231781	2.29E-01	2.43E-01	2.37E-01	2.35E-01	2.37E-01
0.169	0.229806	0.232234	2.25E-01	2.39E-01	2.33E-01	2.36E-01	2.33E-01
0.163	0.226122	0.234534	2.22E-01	2.34E-01	2.30E-01	2.38E-01	2.29E-01
0.152	0.222439	0.23868	2.18E-01	2.27E-01	2.26E-01	2.42E-01	2.25E-01
0.122	0.184417	0.208043	1.80E-01	2.11E-01	1.88E-01	2.12E-01	1.88E-01
0.115	0.180618	0.198178	1.76E-01	2.09E-01	1.84E-01	2.02E-01	1.84E-01
0.116	0.176819	0.19016	1.72E-01	2.06E-01	1.80E-01	1.94E-01	1.80E-01
0.117	0.173019	0.183988	1.69E-01	2.01E-01	1.77E-01	1.88E-01	1.76E-01
0.112	0.16922	0.179663	1.65E-01	1.96E-01	1.73E-01	1.83E-01	1.73E-01
0.106	0.165421	0.177184	1.61E-01	1.90E-01	1.69E-01	1.81E-01	1.69E-01
0.088	0.127976	0.166648	1.24E-01	1.48E-01	1.32E-01	1.70E-01	1.31E-01
0.083	0.124062	0.150158	1.20E-01	1.46E-01	1.28E-01	1.54E-01	1.27E-01
0.085	0.120147	0.135514	1.16E-01	1.43E-01	1.24E-01	1.39E-01	1.23E-01
0.083	0.116233	0.122717	1.12E-01	1.39E-01	1.20E-01	1.26E-01	1.20E-01
0.082	0.112318	0.111767	1.08E-01	1.34E-01	1.16E-01	1.15E-01	1.16E-01
0.068	0.108404	0.102663	1.04E-01	1.28E-01	1.12E-01	1.06E-01	1.12E-01
0.038	0.071535	0.112227	6.71E-02	6.11E-02	7.51E-02	1.16E-01	7.41E-02
0.037	0.067506	0.089112	6.30E-02	5.91E-02	7.10E-02	9.27E-02	7.04E-02
0.035	0.063476	0.067843	5.90E-02	5.61E-02	6.70E-02	7.14E-02	6.66E-02
0.036	0.059446	0.048421	5.50E-02	5.20E-02	6.30E-02	5.20E-02	6.28E-02
0.022	0.055416	0.030846	5.09E-02	4.68E-02	5.90E-02	3.44E-02	5.90E-02
0.017	0.051386	0.015116	4.69E-02	4.05E-02	5.49E-02	1.87E-02	5.53E-02
0.441	0.323388	0.27785	3.19E-01	2.86E-01	3.15E-01	2.70E-01	3.20E-01
0.439	0.31982	0.281235	3.15E-01	2.85E-01	3.12E-01	2.73E-01	3.16E-01
0.445	0.316251	0.286467	3.12E-01	2.81E-01	3.08E-01	2.79E-01	3.12E-01
0.444	0.312683	0.293545	3.08E-01	2.77E-01	3.05E-01	2.86E-01	3.09E-01
0.442	0.309114	0.30247	3.05E-01	2.72E-01	3.01E-01	2.95E-01	3.05E-01
0.436	0.305546	0.313241	3.01E-01	2.66E-01	2.98E-01	3.05E-01	3.01E-01
0.269	0.295168	0.271805	2.91E-01	2.83E-01	2.87E-01	2.64E-01	2.92E-01
0.268	0.291542	0.271878	2.87E-01	2.81E-01	2.84E-01	2.64E-01	2.88E-01

0.263	0.287916	0.273797	2.83E-01	2.78E-01	2.80E-01	2.66E-01	2.84E-01
0.264	0.284289	0.277563	2.80E-01	2.74E-01	2.76E-01	2.70E-01	2.80E-01
0.261	0.280663	0.283175	2.76E-01	2.69E-01	2.73E-01	2.75E-01	2.77E-01
0.232	0.277037	0.290634	2.73E-01	2.63E-01	2.69E-01	2.83E-01	2.73E-01
0.171	0.266947	0.262504	2.62E-01	2.74E-01	2.59E-01	2.55E-01	2.63E-01
0.178	0.263264	0.259264	2.59E-01	2.72E-01	2.55E-01	2.51E-01	2.60E-01
0.172	0.25958	0.257871	2.55E-01	2.69E-01	2.52E-01	2.50E-01	2.56E-01
0.169	0.255896	0.258324	2.51E-01	2.65E-01	2.48E-01	2.50E-01	2.52E-01
0.168	0.252212	0.260624	2.48E-01	2.60E-01	2.44E-01	2.53E-01	2.48E-01
0.163	0.248529	0.26477	2.44E-01	2.53E-01	2.41E-01	2.57E-01	2.44E-01
0.111	0.210507	0.234133	2.06E-01	2.37E-01	2.03E-01	2.26E-01	2.07E-01
0.119	0.206708	0.224268	2.02E-01	2.35E-01	1.99E-01	2.16E-01	2.03E-01
0.115	0.202908	0.21625	1.98E-01	2.32E-01	1.95E-01	2.08E-01	1.99E-01
0.115	0.199109	0.210078	1.95E-01	2.28E-01	1.91E-01	2.02E-01	1.95E-01
0.114	0.19531	0.205753	1.91E-01	2.22E-01	1.87E-01	1.98E-01	1.91E-01
0.095	0.191511	0.203274	1.87E-01	2.16E-01	1.84E-01	1.95E-01	1.88E-01
0.077	0.154066	0.192738	1.50E-01	1.74E-01	1.46E-01	1.85E-01	1.50E-01
0.074	0.150152	0.176248	1.46E-01	1.72E-01	1.42E-01	1.68E-01	1.46E-01
0.077	0.146237	0.161604	1.42E-01	1.69E-01	1.38E-01	1.54E-01	1.42E-01
0.076	0.142323	0.148807	1.38E-01	1.65E-01	1.34E-01	1.41E-01	1.39E-01
0.068	0.138408	0.137856	1.34E-01	1.60E-01	1.30E-01	1.30E-01	1.35E-01
0.059	0.134494	0.128752	1.30E-01	1.54E-01	1.27E-01	1.21E-01	1.31E-01
0.027	0.097625	0.138317	9.32E-02	8.72E-02	8.97E-02	1.30E-01	9.31E-02
0.026	0.093596	0.115202	8.91E-02	8.52E-02	8.56E-02	1.07E-01	8.93E-02
0.025	0.089566	0.093933	8.51E-02	8.22E-02	8.16E-02	8.60E-02	8.56E-02
0.022	0.085536	0.074511	8.11E-02	7.80E-02	7.76E-02	6.66E-02	8.18E-02
0.019	0.081506	0.056936	7.70E-02	7.29E-02	7.36E-02	4.90E-02	7.80E-02
0.009	0.077476	0.041206	7.30E-02	6.66E-02	6.95E-02	3.33E-02	7.43E-02
0.151	0.254709	0.20917	2.52E-01	2.18E-01	2.64E-01	2.19E-01	2.54E-01
0.156	0.25114	0.212556	2.49E-01	2.16E-01	2.61E-01	2.22E-01	2.51E-01
0.162	0.247572	0.217787	2.45E-01	2.13E-01	2.57E-01	2.27E-01	2.47E-01
0.161	0.244003	0.224866	2.41E-01	2.09E-01	2.53E-01	2.34E-01	2.43E-01
0.157	0.240435	0.233791	2.38E-01	2.04E-01	2.50E-01	2.43E-01	2.39E-01
0.159	0.236866	0.244562	2.34E-01	1.97E-01	2.46E-01	2.54E-01	2.36E-01
0.145	0.226488	0.203125	2.24E-01	2.15E-01	2.36E-01	2.13E-01	2.26E-01
0.143	0.222862	0.203198	2.20E-01	2.13E-01	2.32E-01	2.13E-01	2.22E-01
0.145	0.219236	0.205117	2.17E-01	2.10E-01	2.29E-01	2.15E-01	2.18E-01
0.148	0.21561	0.208883	2.13E-01	2.06E-01	2.25E-01	2.18E-01	2.15E-01
0.141	0.211984	0.214495	2.09E-01	2.00E-01	2.21E-01	2.24E-01	2.11E-01
0.142	0.208358	0.221954	2.06E-01	1.94E-01	2.18E-01	2.31E-01	2.07E-01
0.119	0.198268	0.193824	1.96E-01	2.05E-01	2.08E-01	2.03E-01	1.98E-01
0.123	0.194584	0.190585	1.92E-01	2.03E-01	2.04E-01	2.00E-01	1.94E-01
0.125	0.1909	0.189191	1.88E-01	2.00E-01	2.00E-01	1.99E-01	1.90E-01
0.118	0.187217	0.189644	1.85E-01	1.96E-01	1.97E-01	1.99E-01	1.86E-01
0.121	0.183533	0.191944	1.81E-01	1.91E-01	1.93E-01	2.01E-01	1.83E-01
0.117	0.179849	0.19609	1.77E-01	1.85E-01	1.89E-01	2.05E-01	1.79E-01
0.105	0.141827	0.165454	1.39E-01	1.68E-01	1.51E-01	1.75E-01	1.41E-01
0.093	0.138028	0.155589	1.35E-01	1.66E-01	1.47E-01	1.65E-01	1.37E-01

0.095	0.134229	0.14757	1.32E-01	1.63E-01	1.44E-01	1.57E-01	1.33E-01
0.098	0.13043	0.141398	1.28E-01	1.59E-01	1.40E-01	1.51E-01	1.30E-01
0.091	0.126631	0.137073	1.24E-01	1.54E-01	1.36E-01	1.46E-01	1.26E-01
0.074	0.122831	0.134594	1.20E-01	1.47E-01	1.32E-01	1.44E-01	1.22E-01
0.068	0.085387	0.124058	8.28E-02	1.06E-01	9.48E-02	1.33E-01	8.42E-02
0.072	0.081472	0.107568	7.89E-02	1.04E-01	9.09E-02	1.17E-01	8.04E-02
0.071	0.077557	0.092924	7.50E-02	1.01E-01	8.69E-02	1.02E-01	7.67E-02
0.066	0.073643	0.080127	7.11E-02	9.66E-02	8.30E-02	8.95E-02	7.29E-02
0.061	0.069728	0.069177	6.72E-02	9.14E-02	7.91E-02	7.86E-02	6.91E-02
0.052	0.065814	0.060073	6.33E-02	8.51E-02	7.52E-02	6.95E-02	6.53E-02
0.044	0.028946	0.069638	2.64E-02	1.85E-02	3.83E-02	7.90E-02	2.75E-02
0.049	0.024916	0.046522	2.24E-02	1.65E-02	3.43E-02	5.59E-02	2.37E-02
0.051	0.020886	0.025254	1.83E-02	1.35E-02	3.03E-02	3.46E-02	1.99E-02
0.044	0.016856	0.005832	1.43E-02	9.36E-03	2.62E-02	1.52E-02	1.62E-02
0.046	0.012826	-0.01174	1.03E-02	4.18E-03	2.22E-02	-2.35E-03	1.24E-02
0.021	0.008796	-0.02747	6.25E-03	-2.07E-03	1.82E-02	-1.81E-02	8.61E-03
0.237	0.280799	0.23526	2.78E-01	2.44E-01	2.79E-01	2.33E-01	2.81E-01
0.239	0.27723	0.238646	2.75E-01	2.42E-01	2.75E-01	2.37E-01	2.78E-01
0.239	0.273662	0.243877	2.71E-01	2.39E-01	2.72E-01	2.42E-01	2.74E-01
0.241	0.270093	0.250956	2.68E-01	2.35E-01	2.68E-01	2.49E-01	2.70E-01
0.233	0.266525	0.25988	2.64E-01	2.30E-01	2.64E-01	2.58E-01	2.66E-01
0.212	0.262956	0.270652	2.60E-01	2.23E-01	2.61E-01	2.69E-01	2.63E-01
0.216	0.252578	0.229215	2.50E-01	2.41E-01	2.50E-01	2.27E-01	2.53E-01
0.215	0.248952	0.229288	2.46E-01	2.39E-01	2.47E-01	2.27E-01	2.49E-01
0.214	0.245326	0.231207	2.43E-01	2.36E-01	2.43E-01	2.29E-01	2.46E-01
0.214	0.2417	0.234973	2.39E-01	2.32E-01	2.40E-01	2.33E-01	2.42E-01
0.208	0.238074	0.240585	2.36E-01	2.26E-01	2.36E-01	2.38E-01	2.38E-01
0.166	0.234448	0.248044	2.32E-01	2.20E-01	2.32E-01	2.46E-01	2.34E-01
0.171	0.224358	0.219914	2.22E-01	2.31E-01	2.22E-01	2.18E-01	2.25E-01
0.172	0.220674	0.216674	2.18E-01	2.29E-01	2.19E-01	2.15E-01	2.21E-01
0.173	0.21699	0.215281	2.14E-01	2.26E-01	2.15E-01	2.13E-01	2.17E-01
0.172	0.213306	0.215734	2.11E-01	2.22E-01	2.11E-01	2.14E-01	2.13E-01
0.169	0.209623	0.218034	2.07E-01	2.17E-01	2.08E-01	2.16E-01	2.10E-01
0.144	0.205939	0.22218	2.03E-01	2.11E-01	2.04E-01	2.20E-01	2.06E-01
0.147	0.167917	0.191544	1.65E-01	1.94E-01	1.66E-01	1.89E-01	1.68E-01
0.151	0.164118	0.181679	1.62E-01	1.92E-01	1.62E-01	1.80E-01	1.64E-01
0.144	0.160319	0.17366	1.58E-01	1.89E-01	1.58E-01	1.72E-01	1.60E-01
0.148	0.15652	0.167488	1.54E-01	1.85E-01	1.54E-01	1.65E-01	1.57E-01
0.141	0.152721	0.163163	1.50E-01	1.80E-01	1.51E-01	1.61E-01	1.53E-01
0.119	0.148921	0.160684	1.46E-01	1.74E-01	1.47E-01	1.59E-01	1.49E-01
0.126	0.111476	0.150148	1.09E-01	1.32E-01	1.09E-01	1.48E-01	1.11E-01
0.124	0.107562	0.133658	1.05E-01	1.30E-01	1.05E-01	1.32E-01	1.08E-01
0.123	0.103647	0.119014	1.01E-01	1.27E-01	1.02E-01	1.17E-01	1.04E-01
0.123	0.099733	0.106217	9.72E-02	1.23E-01	9.76E-02	1.04E-01	1.00E-01
0.116	0.095818	0.095267	9.33E-02	1.17E-01	9.37E-02	9.32E-02	9.62E-02
0.088	0.091904	0.086163	8.94E-02	1.11E-01	8.98E-02	8.41E-02	9.24E-02
0.089	0.055036	0.095728	5.25E-02	4.46E-02	5.29E-02	9.36E-02	5.46E-02
0.087	0.051006	0.072612	4.85E-02	4.26E-02	4.89E-02	7.05E-02	5.08E-02

0.089	0.046976	0.051344	4.44E-02	3.96E-02	4.49E-02	4.92E-02	4.70E-02
0.082	0.042946	0.031922	4.04E-02	3.55E-02	4.08E-02	2.98E-02	4.33E-02
0.079	0.038916	0.014346	3.64E-02	3.03E-02	3.68E-02	1.22E-02	3.95E-02
0.043	0.034886	-0.00138	3.23E-02	2.40E-02	3.28E-02	-3.49E-03	3.57E-02
0.326	0.332978	0.28744	3.30E-01	2.96E-01	3.37E-01	2.92E-01	3.36E-01
0.327	0.32941	0.290825	3.27E-01	2.94E-01	3.34E-01	2.95E-01	3.32E-01
0.325	0.325842	0.296057	3.23E-01	2.91E-01	3.30E-01	3.00E-01	3.28E-01
0.333	0.322273	0.303135	3.20E-01	2.87E-01	3.26E-01	3.07E-01	3.24E-01
0.329	0.318705	0.31206	3.16E-01	2.82E-01	3.23E-01	3.16E-01	3.21E-01
0.299	0.315136	0.322832	3.13E-01	2.76E-01	3.19E-01	3.27E-01	3.17E-01
0.301	0.304758	0.281395	3.02E-01	2.93E-01	3.09E-01	2.85E-01	3.07E-01
0.305	0.301132	0.281468	2.99E-01	2.91E-01	3.05E-01	2.86E-01	3.04E-01
0.299	0.297506	0.283387	2.95E-01	2.88E-01	3.02E-01	2.87E-01	3.00E-01
0.298	0.29388	0.287153	2.91E-01	2.84E-01	2.98E-01	2.91E-01	2.96E-01
0.295	0.290254	0.292765	2.88E-01	2.79E-01	2.94E-01	2.97E-01	2.92E-01
0.246	0.286628	0.300224	2.84E-01	2.72E-01	2.91E-01	3.04E-01	2.88E-01
0.249	0.276538	0.272094	2.74E-01	2.84E-01	2.81E-01	2.76E-01	2.79E-01
0.251	0.272854	0.268854	2.70E-01	2.82E-01	2.77E-01	2.73E-01	2.75E-01
0.252	0.26917	0.267461	2.67E-01	2.79E-01	2.73E-01	2.72E-01	2.71E-01
0.247	0.265486	0.267914	2.63E-01	2.75E-01	2.70E-01	2.72E-01	2.68E-01
0.246	0.261803	0.270214	2.59E-01	2.69E-01	2.66E-01	2.74E-01	2.64E-01
0.165	0.258119	0.27436	2.56E-01	2.63E-01	2.62E-01	2.78E-01	2.60E-01
0.159	0.220097	0.243723	2.18E-01	2.46E-01	2.24E-01	2.48E-01	2.22E-01
0.162	0.216298	0.233858	2.14E-01	2.44E-01	2.20E-01	2.38E-01	2.18E-01
0.163	0.212499	0.22584	2.10E-01	2.41E-01	2.17E-01	2.30E-01	2.15E-01
0.161	0.2087	0.219668	2.06E-01	2.37E-01	2.13E-01	2.24E-01	2.11E-01
0.166	0.2049	0.215343	2.02E-01	2.32E-01	2.09E-01	2.19E-01	2.07E-01
0.148	0.201101	0.212864	1.99E-01	2.26E-01	2.05E-01	2.17E-01	2.03E-01
0.122	0.163656	0.202328	1.61E-01	1.84E-01	1.68E-01	2.06E-01	1.65E-01
0.123	0.159742	0.185838	1.57E-01	1.82E-01	1.64E-01	1.90E-01	1.62E-01
0.121	0.155827	0.171194	1.53E-01	1.79E-01	1.60E-01	1.75E-01	1.58E-01
0.119	0.151913	0.158397	1.49E-01	1.75E-01	1.56E-01	1.62E-01	1.54E-01
0.123	0.147998	0.147447	1.45E-01	1.70E-01	1.52E-01	1.52E-01	1.50E-01
0.088	0.144084	0.138343	1.42E-01	1.63E-01	1.48E-01	1.42E-01	1.47E-01
0.079	0.107216	0.147907	1.05E-01	9.67E-02	1.11E-01	1.52E-01	1.09E-01
0.075	0.103186	0.124792	1.01E-01	9.48E-02	1.07E-01	1.29E-01	1.05E-01
0.073	0.099156	0.103524	9.66E-02	9.17E-02	1.03E-01	1.08E-01	1.01E-01
0.074	0.095126	0.084101	9.26E-02	8.76E-02	9.92E-02	8.82E-02	9.75E-02
0.069	0.091096	0.066526	8.86E-02	8.25E-02	9.52E-02	7.06E-02	9.37E-02
0.045	0.087066	0.050797	8.45E-02	7.62E-02	9.12E-02	5.49E-02	8.99E-02
0.226	0.270592	0.225053	2.68E-01	2.34E-01	2.73E-01	2.27E-01	2.71E-01
0.227	0.267023	0.228439	2.64E-01	2.32E-01	2.69E-01	2.31E-01	2.67E-01
0.225	0.263455	0.23367	2.61E-01	2.29E-01	2.66E-01	2.36E-01	2.63E-01
0.225	0.259886	0.240749	2.57E-01	2.25E-01	2.62E-01	2.43E-01	2.60E-01
0.226	0.256318	0.249673	2.54E-01	2.19E-01	2.59E-01	2.52E-01	2.56E-01
0.219	0.252749	0.260445	2.50E-01	2.13E-01	2.55E-01	2.63E-01	2.52E-01
0.208	0.242371	0.219008	2.40E-01	2.31E-01	2.45E-01	2.21E-01	2.43E-01
0.207	0.238745	0.219081	2.36E-01	2.29E-01	2.41E-01	2.21E-01	2.39E-01

0.205	0.235119	0.221	2.33E-01	2.26E-01	2.37E-01	2.23E-01	2.35E-01
0.207	0.231493	0.224766	2.29E-01	2.21E-01	2.34E-01	2.27E-01	2.31E-01
0.205	0.227867	0.230378	2.25E-01	2.16E-01	2.30E-01	2.33E-01	2.28E-01
0.186	0.224241	0.237837	2.22E-01	2.10E-01	2.26E-01	2.40E-01	2.24E-01
0.187	0.214151	0.209707	2.12E-01	2.21E-01	2.16E-01	2.12E-01	2.14E-01
0.188	0.210467	0.206468	2.08E-01	2.19E-01	2.13E-01	2.09E-01	2.10E-01
0.189	0.206783	0.205074	2.04E-01	2.16E-01	2.09E-01	2.07E-01	2.07E-01
0.188	0.203099	0.205527	2.01E-01	2.12E-01	2.05E-01	2.08E-01	2.03E-01
0.185	0.199416	0.207827	1.97E-01	2.07E-01	2.02E-01	2.10E-01	1.99E-01
0.163	0.195732	0.211973	1.93E-01	2.01E-01	1.98E-01	2.14E-01	1.95E-01
0.145	0.15771	0.181337	1.55E-01	1.84E-01	1.60E-01	1.84E-01	1.58E-01
0.141	0.153911	0.171472	1.51E-01	1.82E-01	1.56E-01	1.74E-01	1.54E-01
0.142	0.150112	0.163453	1.48E-01	1.79E-01	1.52E-01	1.66E-01	1.50E-01
0.145	0.146313	0.157281	1.44E-01	1.75E-01	1.49E-01	1.59E-01	1.46E-01
0.148	0.142514	0.152956	1.40E-01	1.70E-01	1.45E-01	1.55E-01	1.42E-01
0.123	0.138714	0.150477	1.36E-01	1.63E-01	1.41E-01	1.53E-01	1.39E-01
0.118	0.101269	0.139941	9.87E-02	1.22E-01	1.03E-01	1.42E-01	1.01E-01
0.114	0.097355	0.123451	9.48E-02	1.20E-01	9.96E-02	1.26E-01	9.70E-02
0.115	0.09344	0.108807	9.09E-02	1.17E-01	9.56E-02	1.11E-01	9.33E-02
0.116	0.089526	0.09601	8.70E-02	1.12E-01	9.17E-02	9.82E-02	8.95E-02
0.114	0.085611	0.08506	8.31E-02	1.07E-01	8.78E-02	8.73E-02	8.57E-02
0.096	0.081697	0.075956	7.92E-02	1.01E-01	8.39E-02	7.82E-02	8.19E-02
0.089	0.044829	0.085521	4.23E-02	3.44E-02	4.70E-02	8.77E-02	4.41E-02
0.091	0.040799	0.062405	3.83E-02	3.24E-02	4.30E-02	6.46E-02	4.03E-02
0.092	0.036769	0.041137	3.42E-02	2.94E-02	3.90E-02	4.33E-02	3.65E-02
0.088	0.032739	0.021715	3.02E-02	2.52E-02	3.49E-02	2.39E-02	3.28E-02
0.079	0.028709	0.004139	2.62E-02	2.01E-02	3.09E-02	6.33E-03	2.90E-02
0.065	0.024679	-0.01159	2.21E-02	1.38E-02	2.69E-02	-9.39E-03	2.52E-02
0.311	0.296681	0.251143	2.94E-01	2.60E-01	2.87E-01	2.42E-01	2.97E-01
0.312	0.293113	0.254528	2.91E-01	2.58E-01	2.84E-01	2.45E-01	2.93E-01
0.314	0.289545	0.25976	2.87E-01	2.55E-01	2.80E-01	2.50E-01	2.89E-01
0.312	0.285976	0.266839	2.83E-01	2.51E-01	2.77E-01	2.58E-01	2.85E-01
0.315	0.282408	0.275763	2.80E-01	2.45E-01	2.73E-01	2.66E-01	2.82E-01
0.298	0.278839	0.286535	2.76E-01	2.39E-01	2.70E-01	2.77E-01	2.78E-01
0.275	0.268461	0.245098	2.66E-01	2.57E-01	2.59E-01	2.36E-01	2.68E-01
0.276	0.264835	0.245171	2.62E-01	2.55E-01	2.56E-01	2.36E-01	2.64E-01
0.275	0.261209	0.24709	2.59E-01	2.52E-01	2.52E-01	2.38E-01	2.61E-01
0.273	0.257583	0.250856	2.55E-01	2.48E-01	2.48E-01	2.42E-01	2.57E-01
0.266	0.253957	0.256468	2.51E-01	2.42E-01	2.45E-01	2.47E-01	2.53E-01
0.247	0.250331	0.263927	2.48E-01	2.36E-01	2.41E-01	2.55E-01	2.49E-01
0.223	0.240241	0.235797	2.38E-01	2.47E-01	2.31E-01	2.26E-01	2.40E-01
0.221	0.236557	0.232557	2.34E-01	2.45E-01	2.27E-01	2.23E-01	2.36E-01
0.223	0.232873	0.231164	2.30E-01	2.42E-01	2.24E-01	2.22E-01	2.32E-01
0.219	0.229189	0.231617	2.27E-01	2.38E-01	2.20E-01	2.22E-01	2.29E-01
0.218	0.225506	0.233917	2.23E-01	2.33E-01	2.16E-01	2.25E-01	2.25E-01
0.201	0.221822	0.238063	2.19E-01	2.27E-01	2.13E-01	2.29E-01	2.21E-01
0.171	0.1838	0.207427	1.81E-01	2.10E-01	1.75E-01	1.98E-01	1.83E-01
0.169	0.180001	0.197562	1.77E-01	2.08E-01	1.71E-01	1.88E-01	1.79E-01

0.168	0.176202	0.189543	1.74E-01	2.05E-01	1.67E-01	1.80E-01	1.76E-01
0.163	0.172403	0.183371	1.70E-01	2.01E-01	1.63E-01	1.74E-01	1.72E-01
0.162	0.168603	0.179046	1.66E-01	1.96E-01	1.59E-01	1.70E-01	1.68E-01
0.148	0.164804	0.176567	1.62E-01	1.89E-01	1.56E-01	1.67E-01	1.64E-01
0.126	0.127359	0.166031	1.25E-01	1.48E-01	1.18E-01	1.57E-01	1.26E-01
0.125	0.123445	0.149541	1.21E-01	1.46E-01	1.14E-01	1.40E-01	1.23E-01
0.129	0.11953	0.134897	1.17E-01	1.43E-01	1.10E-01	1.26E-01	1.19E-01
0.128	0.115616	0.1221	1.13E-01	1.39E-01	1.06E-01	1.13E-01	1.15E-01
0.128	0.111701	0.11115	1.09E-01	1.33E-01	1.02E-01	1.02E-01	1.11E-01
0.117	0.107787	0.102046	1.05E-01	1.27E-01	9.85E-02	9.27E-02	1.08E-01
0.095	0.070919	0.11161	6.84E-02	6.05E-02	6.16E-02	1.02E-01	6.97E-02
0.096	0.066889	0.088495	6.44E-02	5.85E-02	5.76E-02	7.92E-02	6.59E-02
0.098	0.062859	0.067227	6.03E-02	5.54E-02	5.36E-02	5.79E-02	6.22E-02
0.097	0.058829	0.047804	5.63E-02	5.13E-02	4.95E-02	3.85E-02	5.84E-02
0.08	0.054799	0.030229	5.23E-02	4.62E-02	4.55E-02	2.09E-02	5.46E-02
0.053	0.050769	0.0145	4.82E-02	3.99E-02	4.15E-02	5.20E-03	5.09E-02
0.416	0.348861	0.303323	3.46E-01	3.12E-01	3.46E-01	3.00E-01	3.48E-01
0.417	0.345293	0.306708	3.43E-01	3.10E-01	3.42E-01	3.04E-01	3.44E-01
0.415	0.341724	0.31194	3.39E-01	3.07E-01	3.39E-01	3.09E-01	3.40E-01
0.414	0.338156	0.319018	3.36E-01	3.03E-01	3.35E-01	3.16E-01	3.37E-01
0.417	0.334588	0.327943	3.32E-01	2.98E-01	3.31E-01	3.25E-01	3.33E-01
0.389	0.331019	0.338715	3.28E-01	2.91E-01	3.28E-01	3.36E-01	3.29E-01
0.351	0.320641	0.297278	3.18E-01	3.09E-01	3.18E-01	2.94E-01	3.20E-01
0.349	0.317015	0.297351	3.14E-01	3.07E-01	3.14E-01	2.94E-01	3.16E-01
0.352	0.313389	0.29927	3.11E-01	3.04E-01	3.10E-01	2.96E-01	3.12E-01
0.352	0.309763	0.303036	3.07E-01	3.00E-01	3.07E-01	3.00E-01	3.08E-01
0.361	0.306137	0.308648	3.04E-01	2.95E-01	3.03E-01	3.06E-01	3.04E-01
0.318	0.30251	0.316107	3.00E-01	2.88E-01	2.99E-01	3.13E-01	3.01E-01
0.299	0.292421	0.287977	2.90E-01	3.00E-01	2.89E-01	2.85E-01	2.91E-01
0.286	0.288737	0.284737	2.86E-01	2.98E-01	2.86E-01	2.82E-01	2.87E-01
0.291	0.285053	0.283344	2.83E-01	2.95E-01	2.82E-01	2.80E-01	2.84E-01
0.295	0.281369	0.283797	2.79E-01	2.90E-01	2.78E-01	2.81E-01	2.80E-01
0.297	0.277686	0.286097	2.75E-01	2.85E-01	2.75E-01	2.83E-01	2.76E-01
0.267	0.274002	0.290243	2.71E-01	2.79E-01	2.71E-01	2.87E-01	2.72E-01
0.178	0.23598	0.259606	2.33E-01	2.62E-01	2.33E-01	2.57E-01	2.34E-01
0.181	0.232181	0.249741	2.30E-01	2.60E-01	2.29E-01	2.47E-01	2.31E-01
0.179	0.228382	0.241723	2.26E-01	2.57E-01	2.25E-01	2.39E-01	2.27E-01
0.181	0.224583	0.235551	2.22E-01	2.53E-01	2.21E-01	2.32E-01	2.23E-01
0.176	0.220783	0.231226	2.18E-01	2.48E-01	2.18E-01	2.28E-01	2.19E-01
0.153	0.216984	0.228747	2.14E-01	2.42E-01	2.14E-01	2.26E-01	2.16E-01
0.129	0.179539	0.218211	1.77E-01	2.00E-01	1.76E-01	2.15E-01	1.78E-01
0.128	0.175625	0.201721	1.73E-01	1.98E-01	1.73E-01	1.99E-01	1.74E-01
0.128	0.17171	0.187077	1.69E-01	1.95E-01	1.69E-01	1.84E-01	1.70E-01
0.127	0.167796	0.17428	1.65E-01	1.91E-01	1.65E-01	1.71E-01	1.66E-01
0.121	0.163881	0.16333	1.61E-01	1.86E-01	1.61E-01	1.60E-01	1.63E-01
0.108	0.159967	0.154226	1.57E-01	1.79E-01	1.57E-01	1.51E-01	1.59E-01
0.095	0.123099	0.16379	1.21E-01	1.13E-01	1.20E-01	1.61E-01	1.21E-01
0.099	0.119069	0.140675	1.17E-01	1.11E-01	1.16E-01	1.38E-01	1.17E-01

0.099	0.115039	0.119406	1.13E-01	1.08E-01	1.12E-01	1.16E-01	1.13E-01
0.096	0.111009	0.099984	1.08E-01	1.04E-01	1.08E-01	9.69E-02	1.10E-01
0.088	0.106979	0.082409	1.04E-01	9.83E-02	1.04E-01	7.93E-02	1.06E-01
0.079	0.102949	0.06668	1.00E-01	9.21E-02	9.98E-02	6.36E-02	1.02E-01
0.415	0.343388	0.29785	3.41E-01	3.06E-01	3.47E-01	3.01E-01	3.47E-01
0.411	0.33982	0.301235	3.37E-01	3.05E-01	3.43E-01	3.05E-01	3.43E-01
0.412	0.336252	0.306467	3.34E-01	3.01E-01	3.40E-01	3.10E-01	3.40E-01
0.411	0.332683	0.313546	3.30E-01	2.97E-01	3.36E-01	3.17E-01	3.36E-01
0.408	0.329115	0.32247	3.27E-01	2.92E-01	3.33E-01	3.26E-01	3.32E-01
0.407	0.325546	0.333242	3.23E-01	2.86E-01	3.29E-01	3.37E-01	3.28E-01
0.317	0.315168	0.291805	3.13E-01	3.03E-01	3.19E-01	2.95E-01	3.19E-01
0.316	0.311542	0.291878	3.09E-01	3.01E-01	3.15E-01	2.95E-01	3.15E-01
0.321	0.307916	0.293797	3.05E-01	2.98E-01	3.11E-01	2.97E-01	3.11E-01
0.318	0.30429	0.297563	3.02E-01	2.94E-01	3.08E-01	3.01E-01	3.07E-01
0.322	0.300664	0.303175	2.98E-01	2.89E-01	3.04E-01	3.07E-01	3.04E-01
0.287	0.297038	0.310634	2.95E-01	2.83E-01	3.00E-01	3.14E-01	3.00E-01
0.265	0.286948	0.282504	2.84E-01	2.94E-01	2.90E-01	2.86E-01	2.90E-01
0.263	0.283264	0.279264	2.81E-01	2.92E-01	2.87E-01	2.83E-01	2.87E-01
0.261	0.27958	0.277871	2.77E-01	2.89E-01	2.83E-01	2.81E-01	2.83E-01
0.261	0.275896	0.278324	2.73E-01	2.85E-01	2.79E-01	2.82E-01	2.79E-01
0.259	0.272213	0.280624	2.70E-01	2.80E-01	2.76E-01	2.84E-01	2.75E-01
0.223	0.268529	0.28477	2.66E-01	2.73E-01	2.72E-01	2.88E-01	2.72E-01
0.197	0.230507	0.254134	2.28E-01	2.57E-01	2.34E-01	2.58E-01	2.34E-01
0.196	0.226708	0.244269	2.24E-01	2.55E-01	2.30E-01	2.48E-01	2.30E-01
0.197	0.222909	0.23625	2.20E-01	2.52E-01	2.26E-01	2.40E-01	2.26E-01
0.201	0.21911	0.230078	2.17E-01	2.48E-01	2.23E-01	2.33E-01	2.22E-01
0.195	0.21531	0.225753	2.13E-01	2.42E-01	2.19E-01	2.29E-01	2.19E-01
0.157	0.211511	0.223274	2.09E-01	2.36E-01	2.15E-01	2.27E-01	2.15E-01
0.151	0.174066	0.212738	1.72E-01	1.94E-01	1.77E-01	2.16E-01	1.77E-01
0.15	0.170152	0.196248	1.68E-01	1.92E-01	1.74E-01	2.00E-01	1.73E-01
0.152	0.166237	0.181604	1.64E-01	1.89E-01	1.70E-01	1.85E-01	1.69E-01
0.151	0.162323	0.168807	1.60E-01	1.85E-01	1.66E-01	1.72E-01	1.66E-01
0.153	0.158408	0.157857	1.56E-01	1.80E-01	1.62E-01	1.61E-01	1.62E-01
0.134	0.154494	0.148753	1.52E-01	1.74E-01	1.58E-01	1.52E-01	1.58E-01
0.119	0.117626	0.158317	1.15E-01	1.07E-01	1.21E-01	1.62E-01	1.20E-01
0.118	0.113596	0.135202	1.11E-01	1.05E-01	1.17E-01	1.39E-01	1.16E-01
0.114	0.109566	0.113934	1.07E-01	1.02E-01	1.13E-01	1.17E-01	1.13E-01
0.114	0.105536	0.094511	1.03E-01	9.80E-02	1.09E-01	9.79E-02	1.09E-01
0.113	0.101506	0.076936	9.90E-02	9.29E-02	1.05E-01	8.04E-02	1.05E-01
0.088	0.097476	0.061207	9.50E-02	8.66E-02	1.01E-01	6.46E-02	1.01E-01
0.431	0.369478	0.32394	3.67E-01	3.33E-01	3.61E-01	3.16E-01	3.66E-01
0.433	0.36591	0.327325	3.63E-01	3.31E-01	3.58E-01	3.19E-01	3.62E-01
0.432	0.362342	0.332557	3.60E-01	3.28E-01	3.54E-01	3.24E-01	3.59E-01
0.431	0.358773	0.339636	3.56E-01	3.23E-01	3.51E-01	3.32E-01	3.55E-01
0.43	0.355205	0.34856	3.53E-01	3.18E-01	3.47E-01	3.40E-01	3.51E-01
0.416	0.351636	0.359332	3.49E-01	3.12E-01	3.44E-01	3.51E-01	3.47E-01
0.351	0.341258	0.317895	3.39E-01	3.29E-01	3.33E-01	3.10E-01	3.38E-01
0.348	0.337632	0.317968	3.35E-01	3.27E-01	3.30E-01	3.10E-01	3.34E-01

0.352	0.334006	0.319887	3.32E-01	3.24E-01	3.26E-01	3.12E-01	3.30E-01
0.351	0.33038	0.323653	3.28E-01	3.20E-01	3.22E-01	3.16E-01	3.26E-01
0.345	0.326754	0.329265	3.24E-01	3.15E-01	3.19E-01	3.21E-01	3.23E-01
0.315	0.323128	0.336724	3.21E-01	3.09E-01	3.15E-01	3.29E-01	3.19E-01
0.275	0.313038	0.308594	3.11E-01	3.20E-01	3.05E-01	3.01E-01	3.09E-01
0.276	0.309354	0.305354	3.07E-01	3.18E-01	3.01E-01	2.97E-01	3.06E-01
0.274	0.30567	0.303961	3.03E-01	3.15E-01	2.98E-01	2.96E-01	3.02E-01
0.268	0.301986	0.304414	2.99E-01	3.11E-01	2.94E-01	2.96E-01	2.98E-01
0.265	0.298303	0.306714	2.96E-01	3.06E-01	2.90E-01	2.99E-01	2.94E-01
0.218	0.294619	0.31086	2.92E-01	3.00E-01	2.87E-01	3.03E-01	2.90E-01
0.191	0.256597	0.280223	2.54E-01	2.83E-01	2.49E-01	2.72E-01	2.53E-01
0.192	0.252798	0.270358	2.50E-01	2.81E-01	2.45E-01	2.62E-01	2.49E-01
0.193	0.248999	0.26234	2.46E-01	2.78E-01	2.41E-01	2.54E-01	2.45E-01
0.191	0.2452	0.256168	2.43E-01	2.74E-01	2.37E-01	2.48E-01	2.41E-01
0.185	0.2414	0.251843	2.39E-01	2.68E-01	2.33E-01	2.44E-01	2.38E-01
0.155	0.237601	0.249364	2.35E-01	2.62E-01	2.30E-01	2.41E-01	2.34E-01
0.147	0.200156	0.238828	1.98E-01	2.20E-01	1.92E-01	2.31E-01	1.96E-01
0.148	0.196242	0.222338	1.94E-01	2.18E-01	1.88E-01	2.14E-01	1.92E-01
0.149	0.192327	0.207694	1.90E-01	2.15E-01	1.84E-01	2.00E-01	1.88E-01
0.151	0.188413	0.194897	1.86E-01	2.11E-01	1.80E-01	1.87E-01	1.85E-01
0.145	0.184498	0.183947	1.82E-01	2.06E-01	1.76E-01	1.76E-01	1.81E-01
0.132	0.180584	0.174843	1.78E-01	2.00E-01	1.73E-01	1.67E-01	1.77E-01
0.119	0.143716	0.184407	1.41E-01	1.33E-01	1.36E-01	1.76E-01	1.39E-01
0.118	0.139686	0.161292	1.37E-01	1.31E-01	1.32E-01	1.53E-01	1.35E-01
0.115	0.135656	0.140024	1.33E-01	1.28E-01	1.28E-01	1.32E-01	1.32E-01
0.111	0.131626	0.120601	1.29E-01	1.24E-01	1.24E-01	1.13E-01	1.28E-01
0.101	0.127596	0.103026	1.25E-01	1.19E-01	1.20E-01	9.49E-02	1.24E-01
0.086	0.123566	0.087297	1.21E-01	1.13E-01	1.15E-01	7.92E-02	1.20E-01
0.167	0.229749	0.184211	2.37E-01	1.93E-01	2.39E-01	1.94E-01	2.29E-01
0.163	0.226181	0.187596	2.33E-01	1.91E-01	2.36E-01	1.97E-01	2.26E-01
0.165	0.222613	0.192828	2.29E-01	1.88E-01	2.32E-01	2.02E-01	2.22E-01
0.165	0.219044	0.199906	2.26E-01	1.84E-01	2.28E-01	2.09E-01	2.18E-01
0.159	0.215476	0.208831	2.22E-01	1.79E-01	2.25E-01	2.18E-01	2.14E-01
0.159	0.211907	0.219603	2.19E-01	1.72E-01	2.21E-01	2.29E-01	2.11E-01
0.151	0.201529	0.178166	2.08E-01	1.90E-01	2.11E-01	1.88E-01	2.01E-01
0.148	0.197903	0.178239	2.05E-01	1.88E-01	2.07E-01	1.88E-01	1.97E-01
0.151	0.194277	0.180158	2.01E-01	1.85E-01	2.04E-01	1.90E-01	1.94E-01
0.148	0.190651	0.183924	1.97E-01	1.81E-01	2.00E-01	1.93E-01	1.90E-01
0.149	0.187025	0.189536	1.94E-01	1.75E-01	1.96E-01	1.99E-01	1.86E-01
0.135	0.183398	0.196995	1.90E-01	1.69E-01	1.93E-01	2.06E-01	1.82E-01
0.12	0.173309	0.168865	1.80E-01	1.80E-01	1.83E-01	1.78E-01	1.73E-01
0.121	0.169625	0.165625	1.76E-01	1.78E-01	1.79E-01	1.75E-01	1.69E-01
0.121	0.165941	0.164232	1.73E-01	1.75E-01	1.75E-01	1.74E-01	1.65E-01
0.122	0.162257	0.164685	1.69E-01	1.71E-01	1.72E-01	1.74E-01	1.61E-01
0.119	0.158574	0.166985	1.65E-01	1.66E-01	1.68E-01	1.76E-01	1.58E-01
0.103	0.15489	0.171131	1.62E-01	1.60E-01	1.64E-01	1.81E-01	1.54E-01
0.095	0.116868	0.140494	1.24E-01	1.43E-01	1.26E-01	1.50E-01	1.16E-01
0.094	0.113069	0.130629	1.20E-01	1.41E-01	1.22E-01	1.40E-01	1.12E-01

0.093	0.10927	0.122611	1.16E-01	1.38E-01	1.19E-01	1.32E-01	1.08E-01
0.094	0.105471	0.116439	1.12E-01	1.34E-01	1.15E-01	1.26E-01	1.05E-01
0.093	0.101671	0.112114	1.08E-01	1.29E-01	1.11E-01	1.22E-01	1.01E-01
0.071	0.097872	0.109635	1.05E-01	1.22E-01	1.07E-01	1.19E-01	9.71E-02
0.071	0.060427	0.099099	6.72E-02	8.07E-02	6.98E-02	1.08E-01	5.92E-02
0.069	0.056513	0.082609	6.33E-02	7.88E-02	6.59E-02	9.20E-02	5.55E-02
0.068	0.052598	0.067965	5.94E-02	7.57E-02	6.20E-02	7.74E-02	5.17E-02
0.065	0.048684	0.055168	5.55E-02	7.16E-02	5.81E-02	6.46E-02	4.79E-02
0.061	0.044769	0.044218	5.16E-02	6.64E-02	5.42E-02	5.36E-02	4.42E-02
0.045	0.040855	0.035114	4.76E-02	6.02E-02	5.03E-02	4.45E-02	4.04E-02
0.031	0.003987	0.044678	1.08E-02	-6.48E-03	1.34E-02	5.41E-02	2.51E-03
0.035	-4.3E-05	0.021563	6.75E-03	-8.45E-03	9.36E-03	3.10E-02	-1.26E-03
0.031	-0.00407	0.000295	2.72E-03	-1.15E-02	5.33E-03	9.69E-03	-5.03E-03
0.032	-0.0081	-0.01913	-1.31E-03	-1.56E-02	1.30E-03	-9.73E-03	-8.80E-03
0.029	-0.01213	-0.0367	-5.34E-03	-2.08E-02	-2.73E-03	-2.73E-02	-1.26E-02
0.022	-0.01616	-0.05243	-9.37E-03	-2.70E-02	-6.76E-03	-4.30E-02	-1.63E-02
0.228	0.255839	0.210301	2.63E-01	2.19E-01	2.54E-01	2.08E-01	2.57E-01
0.226	0.252271	0.213686	2.59E-01	2.17E-01	2.50E-01	2.12E-01	2.53E-01
0.227	0.248702	0.218918	2.55E-01	2.14E-01	2.47E-01	2.17E-01	2.49E-01
0.225	0.245134	0.225996	2.52E-01	2.10E-01	2.43E-01	2.24E-01	2.45E-01
0.228	0.241566	0.234921	2.48E-01	2.05E-01	2.39E-01	2.33E-01	2.41E-01
0.205	0.237997	0.245693	2.45E-01	1.98E-01	2.36E-01	2.44E-01	2.38E-01
0.197	0.227619	0.204256	2.34E-01	2.16E-01	2.26E-01	2.02E-01	2.28E-01
0.201	0.223993	0.204329	2.31E-01	2.14E-01	2.22E-01	2.02E-01	2.24E-01
0.201	0.220367	0.206248	2.27E-01	2.11E-01	2.18E-01	2.04E-01	2.21E-01
0.2	0.216741	0.210014	2.24E-01	2.07E-01	2.15E-01	2.08E-01	2.17E-01
0.191	0.213115	0.215626	2.20E-01	2.02E-01	2.11E-01	2.14E-01	2.13E-01
0.183	0.209488	0.223085	2.16E-01	1.95E-01	2.07E-01	2.21E-01	2.09E-01
0.161	0.199399	0.194955	2.06E-01	2.06E-01	1.97E-01	1.93E-01	2.00E-01
0.161	0.195715	0.191715	2.03E-01	2.05E-01	1.94E-01	1.90E-01	1.96E-01
0.171	0.192031	0.190322	1.99E-01	2.01E-01	1.90E-01	1.88E-01	1.92E-01
0.172	0.188347	0.190775	1.95E-01	1.97E-01	1.86E-01	1.89E-01	1.88E-01
0.155	0.184663	0.193075	1.91E-01	1.92E-01	1.83E-01	1.91E-01	1.85E-01
0.136	0.18098	0.197221	1.88E-01	1.86E-01	1.79E-01	1.95E-01	1.81E-01
0.146	0.142958	0.166584	1.50E-01	1.69E-01	1.41E-01	1.64E-01	1.43E-01
0.141	0.139159	0.156719	1.46E-01	1.67E-01	1.37E-01	1.55E-01	1.39E-01
0.139	0.13536	0.148701	1.42E-01	1.64E-01	1.33E-01	1.47E-01	1.36E-01
0.141	0.13156	0.142529	1.38E-01	1.60E-01	1.29E-01	1.40E-01	1.32E-01
0.138	0.127761	0.138204	1.35E-01	1.55E-01	1.26E-01	1.36E-01	1.28E-01
0.116	0.123962	0.135725	1.31E-01	1.49E-01	1.22E-01	1.34E-01	1.24E-01
0.124	0.086517	0.125189	9.33E-02	1.07E-01	8.44E-02	1.23E-01	8.63E-02
0.126	0.082603	0.108699	8.94E-02	1.05E-01	8.05E-02	1.07E-01	8.26E-02
0.128	0.078688	0.094055	8.55E-02	1.02E-01	7.66E-02	9.20E-02	7.88E-02
0.129	0.074774	0.081258	8.16E-02	9.77E-02	7.27E-02	7.92E-02	7.50E-02
0.121	0.070859	0.070308	7.77E-02	9.25E-02	6.88E-02	6.82E-02	7.13E-02
0.087	0.066945	0.061204	7.37E-02	8.63E-02	6.48E-02	5.91E-02	6.75E-02
0.075	0.030077	0.070768	3.69E-02	1.96E-02	2.80E-02	6.87E-02	2.96E-02
0.071	0.026047	0.047653	3.28E-02	1.76E-02	2.40E-02	4.56E-02	2.58E-02

0.069	0.022017	0.026384	2.88E-02	1.46E-02	1.99E-02	2.43E-02	2.21E-02
0.075	0.017987	0.006962	2.48E-02	1.05E-02	1.59E-02	4.87E-03	1.83E-02
0.073	0.013957	-0.01061	2.08E-02	5.31E-03	1.19E-02	-1.27E-02	1.45E-02
0.048	0.009927	-0.02634	1.67E-02	-9.40E-04	7.83E-03	-2.84E-02	1.08E-02
0.315	0.308019	0.262481	3.15E-01	2.71E-01	3.12E-01	2.67E-01	3.11E-01
0.325	0.304451	0.265866	3.11E-01	2.69E-01	3.09E-01	2.70E-01	3.07E-01
0.328	0.300882	0.271098	3.08E-01	2.66E-01	3.05E-01	2.75E-01	3.03E-01
0.331	0.297314	0.278176	3.04E-01	2.62E-01	3.01E-01	2.82E-01	2.99E-01
0.328	0.293745	0.287101	3.01E-01	2.57E-01	2.98E-01	2.91E-01	2.96E-01
0.318	0.290177	0.297872	2.97E-01	2.51E-01	2.94E-01	3.02E-01	2.92E-01
0.285	0.279799	0.256436	2.87E-01	2.68E-01	2.84E-01	2.61E-01	2.82E-01
0.287	0.276173	0.256509	2.83E-01	2.66E-01	2.80E-01	2.61E-01	2.79E-01
0.288	0.272547	0.258428	2.79E-01	2.63E-01	2.77E-01	2.63E-01	2.75E-01
0.284	0.26892	0.262194	2.76E-01	2.59E-01	2.73E-01	2.66E-01	2.71E-01
0.281	0.265294	0.267806	2.72E-01	2.54E-01	2.69E-01	2.72E-01	2.67E-01
0.245	0.261668	0.275265	2.68E-01	2.47E-01	2.66E-01	2.79E-01	2.64E-01
0.201	0.251578	0.247135	2.58E-01	2.59E-01	2.56E-01	2.51E-01	2.54E-01
0.205	0.247895	0.243895	2.55E-01	2.57E-01	2.52E-01	2.48E-01	2.50E-01
0.209	0.244211	0.242502	2.51E-01	2.54E-01	2.48E-01	2.47E-01	2.46E-01
0.205	0.240527	0.242955	2.47E-01	2.50E-01	2.45E-01	2.47E-01	2.43E-01
0.204	0.236843	0.245255	2.44E-01	2.44E-01	2.41E-01	2.49E-01	2.39E-01
0.175	0.23316	0.249401	2.40E-01	2.38E-01	2.37E-01	2.54E-01	2.35E-01
0.151	0.195138	0.218764	2.02E-01	2.21E-01	1.99E-01	2.23E-01	1.97E-01
0.149	0.191339	0.208899	1.98E-01	2.19E-01	1.95E-01	2.13E-01	1.94E-01
0.148	0.187539	0.200881	1.94E-01	2.16E-01	1.92E-01	2.05E-01	1.90E-01
0.145	0.18374	0.194709	1.91E-01	2.12E-01	1.88E-01	1.99E-01	1.86E-01
0.146	0.179941	0.190384	1.87E-01	2.07E-01	1.84E-01	1.94E-01	1.82E-01
0.133	0.176142	0.187905	1.83E-01	2.01E-01	1.80E-01	1.92E-01	1.78E-01
0.112	0.138697	0.177369	1.45E-01	1.59E-01	1.43E-01	1.81E-01	1.41E-01
0.111	0.134783	0.160879	1.42E-01	1.57E-01	1.39E-01	1.65E-01	1.37E-01
0.112	0.130868	0.146235	1.38E-01	1.54E-01	1.35E-01	1.50E-01	1.33E-01
0.115	0.126954	0.133438	1.34E-01	1.50E-01	1.31E-01	1.38E-01	1.29E-01
0.114	0.123039	0.122487	1.30E-01	1.45E-01	1.27E-01	1.27E-01	1.25E-01
0.092	0.119125	0.113383	1.26E-01	1.38E-01	1.23E-01	1.17E-01	1.22E-01
0.068	0.082256	0.122948	8.91E-02	7.18E-02	8.64E-02	1.27E-01	8.38E-02
0.071	0.078227	0.099833	8.50E-02	6.98E-02	8.23E-02	1.04E-01	8.00E-02
0.07	0.074197	0.078564	8.10E-02	6.68E-02	7.83E-02	8.27E-02	7.63E-02
0.072	0.070167	0.059142	7.70E-02	6.27E-02	7.43E-02	6.32E-02	7.25E-02
0.068	0.066137	0.041567	7.29E-02	5.75E-02	7.02E-02	4.57E-02	6.87E-02
0.059	0.062107	0.025837	6.89E-02	5.12E-02	6.62E-02	2.99E-02	6.50E-02
0.225	0.245632	0.200094	2.52E-01	2.09E-01	2.48E-01	2.02E-01	2.46E-01
0.226	0.242064	0.203479	2.49E-01	2.07E-01	2.44E-01	2.06E-01	2.42E-01
0.223	0.238495	0.208711	2.45E-01	2.04E-01	2.41E-01	2.11E-01	2.38E-01
0.224	0.234927	0.215789	2.42E-01	2.00E-01	2.37E-01	2.18E-01	2.35E-01
0.225	0.231359	0.224714	2.38E-01	1.94E-01	2.34E-01	2.27E-01	2.31E-01
0.22	0.22779	0.235486	2.35E-01	1.88E-01	2.30E-01	2.38E-01	2.27E-01
0.198	0.217412	0.194049	2.24E-01	2.06E-01	2.20E-01	1.96E-01	2.18E-01
0.198	0.213786	0.194122	2.21E-01	2.04E-01	2.16E-01	1.96E-01	2.14E-01

0.199	0.21016	0.196041	2.17E-01	2.01E-01	2.12E-01	1.98E-01	2.10E-01
0.191	0.206534	0.199807	2.13E-01	1.97E-01	2.09E-01	2.02E-01	2.06E-01
0.185	0.202908	0.205419	2.10E-01	1.91E-01	2.05E-01	2.08E-01	2.03E-01
0.177	0.199281	0.212878	2.06E-01	1.85E-01	2.01E-01	2.15E-01	1.99E-01
0.181	0.189192	0.184748	1.96E-01	1.96E-01	1.91E-01	1.87E-01	1.89E-01
0.181	0.185508	0.181508	1.92E-01	1.94E-01	1.88E-01	1.84E-01	1.86E-01
0.181	0.181824	0.180115	1.89E-01	1.91E-01	1.84E-01	1.82E-01	1.82E-01
0.175	0.17814	0.180568	1.85E-01	1.87E-01	1.80E-01	1.83E-01	1.78E-01
0.173	0.174456	0.182868	1.81E-01	1.82E-01	1.77E-01	1.85E-01	1.74E-01
0.155	0.170773	0.187014	1.78E-01	1.76E-01	1.73E-01	1.89E-01	1.70E-01
0.126	0.132751	0.156377	1.40E-01	1.59E-01	1.35E-01	1.59E-01	1.33E-01
0.125	0.128952	0.146512	1.36E-01	1.57E-01	1.31E-01	1.49E-01	1.29E-01
0.126	0.125153	0.138494	1.32E-01	1.54E-01	1.27E-01	1.41E-01	1.25E-01
0.125	0.121353	0.132322	1.28E-01	1.50E-01	1.24E-01	1.35E-01	1.21E-01
0.122	0.117554	0.127997	1.24E-01	1.45E-01	1.20E-01	1.30E-01	1.17E-01
0.11	0.113755	0.125518	1.21E-01	1.38E-01	1.16E-01	1.28E-01	1.14E-01
0.101	0.07631	0.114982	8.31E-02	9.66E-02	7.85E-02	1.17E-01	7.58E-02
0.102	0.072396	0.098492	7.92E-02	9.46E-02	7.46E-02	1.01E-01	7.21E-02
0.1	0.068481	0.083848	7.53E-02	9.16E-02	7.07E-02	8.61E-02	6.83E-02
0.101	0.064567	0.071051	7.14E-02	8.75E-02	6.68E-02	7.33E-02	6.45E-02
0.1	0.060652	0.060101	6.75E-02	8.23E-02	6.29E-02	6.23E-02	6.08E-02
0.085	0.056738	0.050997	6.35E-02	7.61E-02	5.89E-02	5.32E-02	5.70E-02
0.075	0.01987	0.060561	2.67E-02	9.40E-03	2.21E-02	6.28E-02	1.91E-02
0.076	0.01584	0.037446	2.26E-02	7.44E-03	1.80E-02	3.96E-02	1.53E-02
0.073	0.01181	0.016177	1.86E-02	4.40E-03	1.40E-02	1.84E-02	1.16E-02
0.071	0.00778	-0.00324	1.46E-02	2.89E-04	9.98E-03	-1.04E-03	7.80E-03
0.069	0.00375	-0.02082	1.05E-02	-4.89E-03	5.95E-03	-1.86E-02	4.03E-03
0.055	-0.00028	-0.03655	6.52E-03	-1.11E-02	1.92E-03	-3.43E-02	2.60E-04
0.314	0.271722	0.226184	2.79E-01	2.35E-01	2.62E-01	2.17E-01	2.72E-01
0.315	0.268154	0.229569	2.75E-01	2.33E-01	2.59E-01	2.20E-01	2.68E-01
0.316	0.264585	0.234801	2.71E-01	2.30E-01	2.55E-01	2.26E-01	2.64E-01
0.317	0.261017	0.241879	2.68E-01	2.26E-01	2.52E-01	2.33E-01	2.60E-01
0.315	0.257449	0.250804	2.64E-01	2.21E-01	2.48E-01	2.42E-01	2.57E-01
0.301	0.25388	0.261576	2.61E-01	2.14E-01	2.45E-01	2.52E-01	2.53E-01
0.251	0.243502	0.220139	2.50E-01	2.32E-01	2.34E-01	2.11E-01	2.43E-01
0.252	0.239876	0.220212	2.47E-01	2.30E-01	2.31E-01	2.11E-01	2.40E-01
0.249	0.23625	0.222131	2.43E-01	2.27E-01	2.27E-01	2.13E-01	2.36E-01
0.251	0.232624	0.225897	2.39E-01	2.23E-01	2.23E-01	2.17E-01	2.32E-01
0.245	0.228997	0.231509	2.36E-01	2.17E-01	2.20E-01	2.22E-01	2.28E-01
0.233	0.225371	0.238968	2.32E-01	2.11E-01	2.16E-01	2.30E-01	2.24E-01
0.212	0.215282	0.210838	2.22E-01	2.22E-01	2.06E-01	2.02E-01	2.15E-01
0.211	0.211598	0.207598	2.18E-01	2.20E-01	2.02E-01	1.98E-01	2.11E-01
0.207	0.207914	0.206205	2.15E-01	2.17E-01	1.99E-01	1.97E-01	2.07E-01
0.206	0.20423	0.206658	2.11E-01	2.13E-01	1.95E-01	1.97E-01	2.04E-01
0.207	0.200546	0.208958	2.07E-01	2.08E-01	1.91E-01	2.00E-01	2.00E-01
0.191	0.196863	0.213104	2.04E-01	2.02E-01	1.88E-01	2.04E-01	1.96E-01
0.155	0.158841	0.182467	1.66E-01	1.85E-01	1.50E-01	1.73E-01	1.58E-01
0.156	0.155042	0.172602	1.62E-01	1.83E-01	1.46E-01	1.63E-01	1.54E-01

0.157	0.151243	0.164584	1.58E-01	1.80E-01	1.42E-01	1.55E-01	1.51E-01
0.153	0.147443	0.158412	1.54E-01	1.76E-01	1.38E-01	1.49E-01	1.47E-01
0.156	0.143644	0.154087	1.50E-01	1.71E-01	1.34E-01	1.45E-01	1.43E-01
0.139	0.139845	0.151608	1.47E-01	1.64E-01	1.31E-01	1.42E-01	1.39E-01
0.117	0.1024	0.141072	1.09E-01	1.23E-01	9.31E-02	1.32E-01	1.01E-01
0.116	0.098486	0.124582	1.05E-01	1.21E-01	8.92E-02	1.15E-01	9.77E-02
0.117	0.094571	0.109938	1.01E-01	1.18E-01	8.53E-02	1.01E-01	9.39E-02
0.118	0.090657	0.097141	9.75E-02	1.14E-01	8.14E-02	8.78E-02	9.02E-02
0.118	0.086742	0.086191	9.35E-02	1.08E-01	7.74E-02	7.69E-02	8.64E-02
0.102	0.082828	0.077087	8.96E-02	1.02E-01	7.35E-02	6.78E-02	8.26E-02
0.075	0.04596	0.086651	5.28E-02	3.55E-02	3.67E-02	7.74E-02	4.48E-02
0.081	0.04193	0.063536	4.87E-02	3.35E-02	3.26E-02	5.42E-02	4.10E-02
0.079	0.0379	0.042267	4.47E-02	3.05E-02	2.86E-02	3.30E-02	3.72E-02
0.081	0.03387	0.022845	4.07E-02	2.64E-02	2.46E-02	1.36E-02	3.34E-02
0.078	0.02984	0.00527	3.66E-02	2.12E-02	2.05E-02	-4.02E-03	2.97E-02
0.056	0.02581	-0.01046	3.26E-02	1.49E-02	1.65E-02	-1.98E-02	2.59E-02
0.419	0.323902	0.278364	3.31E-01	2.87E-01	3.21E-01	2.75E-01	3.23E-01
0.419	0.320334	0.281749	3.27E-01	2.85E-01	3.17E-01	2.79E-01	3.19E-01
0.418	0.316765	0.286981	3.24E-01	2.82E-01	3.14E-01	2.84E-01	3.15E-01
0.416	0.313197	0.294059	3.20E-01	2.78E-01	3.10E-01	2.91E-01	3.12E-01
0.41	0.309628	0.302984	3.16E-01	2.73E-01	3.07E-01	3.00E-01	3.08E-01
0.395	0.30606	0.313755	3.13E-01	2.66E-01	3.03E-01	3.11E-01	3.04E-01
0.322	0.295682	0.272319	3.02E-01	2.84E-01	2.93E-01	2.69E-01	2.95E-01
0.321	0.292056	0.272392	2.99E-01	2.82E-01	2.89E-01	2.69E-01	2.91E-01
0.318	0.28843	0.274311	2.95E-01	2.79E-01	2.85E-01	2.71E-01	2.87E-01
0.317	0.284803	0.278077	2.92E-01	2.75E-01	2.82E-01	2.75E-01	2.83E-01
0.311	0.281177	0.283689	2.88E-01	2.70E-01	2.78E-01	2.81E-01	2.80E-01
0.298	0.277551	0.291148	2.84E-01	2.63E-01	2.74E-01	2.88E-01	2.76E-01
0.268	0.267461	0.263018	2.74E-01	2.75E-01	2.64E-01	2.60E-01	2.66E-01
0.265	0.263778	0.259778	2.71E-01	2.73E-01	2.61E-01	2.57E-01	2.62E-01
0.261	0.260094	0.258385	2.67E-01	2.70E-01	2.57E-01	2.55E-01	2.59E-01
0.259	0.25641	0.258838	2.63E-01	2.65E-01	2.53E-01	2.56E-01	2.55E-01
0.258	0.252726	0.261138	2.60E-01	2.60E-01	2.50E-01	2.58E-01	2.51E-01
0.241	0.249042	0.265284	2.56E-01	2.54E-01	2.46E-01	2.62E-01	2.47E-01
0.156	0.211021	0.234647	2.18E-01	2.37E-01	2.08E-01	2.32E-01	2.10E-01
0.159	0.207222	0.224782	2.14E-01	2.35E-01	2.04E-01	2.22E-01	2.06E-01
0.161	0.203422	0.216764	2.10E-01	2.32E-01	2.00E-01	2.14E-01	2.02E-01
0.152	0.199623	0.210592	2.06E-01	2.28E-01	1.97E-01	2.07E-01	1.98E-01
0.151	0.195824	0.206266	2.03E-01	2.23E-01	1.93E-01	2.03E-01	1.94E-01
0.135	0.192025	0.203788	1.99E-01	2.17E-01	1.89E-01	2.01E-01	1.91E-01
0.116	0.15458	0.193252	1.61E-01	1.75E-01	1.51E-01	1.90E-01	1.53E-01
0.117	0.150666	0.176761	1.57E-01	1.73E-01	1.48E-01	1.74E-01	1.49E-01
0.115	0.146751	0.162118	1.54E-01	1.70E-01	1.44E-01	1.59E-01	1.45E-01
0.114	0.142837	0.149321	1.50E-01	1.66E-01	1.40E-01	1.46E-01	1.41E-01
0.113	0.138922	0.13837	1.46E-01	1.61E-01	1.36E-01	1.35E-01	1.38E-01
0.099	0.135007	0.129266	1.42E-01	1.54E-01	1.32E-01	1.26E-01	1.34E-01
0.075	0.098139	0.138831	1.05E-01	8.77E-02	9.50E-02	1.36E-01	9.61E-02
0.074	0.094109	0.115716	1.01E-01	8.57E-02	9.10E-02	1.13E-01	9.23E-02

0.071	0.09008	0.094447	9.69E-02	8.27E-02	8.70E-02	9.14E-02	8.85E-02
0.069	0.08605	0.075025	9.29E-02	7.86E-02	8.30E-02	7.19E-02	8.47E-02
0.071	0.08202	0.057449	8.88E-02	7.34E-02	7.89E-02	5.44E-02	8.10E-02
0.055	0.07799	0.04172	8.48E-02	6.71E-02	7.49E-02	3.86E-02	7.72E-02
0.41	0.318429	0.272891	3.25E-01	2.82E-01	3.22E-01	2.76E-01	3.22E-01
0.408	0.314861	0.276276	3.22E-01	2.80E-01	3.18E-01	2.80E-01	3.18E-01
0.409	0.311292	0.281508	3.18E-01	2.77E-01	3.15E-01	2.85E-01	3.15E-01
0.408	0.307724	0.288586	3.15E-01	2.72E-01	3.11E-01	2.92E-01	3.11E-01
0.405	0.304156	0.297511	3.11E-01	2.67E-01	3.08E-01	3.01E-01	3.07E-01
0.391	0.300587	0.308283	3.07E-01	2.61E-01	3.04E-01	3.12E-01	3.03E-01
0.299	0.290209	0.266846	2.97E-01	2.78E-01	2.94E-01	2.70E-01	2.94E-01
0.301	0.286583	0.266919	2.93E-01	2.76E-01	2.90E-01	2.70E-01	2.90E-01
0.295	0.282957	0.268838	2.90E-01	2.73E-01	2.86E-01	2.72E-01	2.86E-01
0.296	0.279331	0.272604	2.86E-01	2.69E-01	2.83E-01	2.76E-01	2.82E-01
0.289	0.275704	0.278216	2.83E-01	2.64E-01	2.79E-01	2.82E-01	2.79E-01
0.265	0.272078	0.285675	2.79E-01	2.58E-01	2.76E-01	2.89E-01	2.75E-01
0.235	0.261989	0.257545	2.69E-01	2.69E-01	2.65E-01	2.61E-01	2.65E-01
0.235	0.258305	0.254305	2.65E-01	2.67E-01	2.62E-01	2.58E-01	2.62E-01
0.231	0.254621	0.252912	2.61E-01	2.64E-01	2.58E-01	2.56E-01	2.58E-01
0.229	0.250937	0.253365	2.58E-01	2.60E-01	2.54E-01	2.57E-01	2.54E-01
0.227	0.247253	0.255665	2.54E-01	2.55E-01	2.51E-01	2.59E-01	2.50E-01
0.207	0.24357	0.259811	2.50E-01	2.49E-01	2.47E-01	2.63E-01	2.47E-01
0.159	0.205548	0.229174	2.12E-01	2.32E-01	2.09E-01	2.33E-01	2.09E-01
0.158	0.201749	0.219309	2.09E-01	2.30E-01	2.05E-01	2.23E-01	2.05E-01
0.156	0.19795	0.211291	2.05E-01	2.27E-01	2.01E-01	2.15E-01	2.01E-01
0.157	0.19415	0.205119	2.01E-01	2.23E-01	1.98E-01	2.09E-01	1.97E-01
0.151	0.190351	0.200794	1.97E-01	2.17E-01	1.94E-01	2.04E-01	1.94E-01
0.131	0.186552	0.198315	1.93E-01	2.11E-01	1.90E-01	2.02E-01	1.90E-01
0.129	0.149107	0.187779	1.56E-01	1.69E-01	1.53E-01	1.91E-01	1.52E-01
0.131	0.145193	0.171289	1.52E-01	1.67E-01	1.49E-01	1.75E-01	1.48E-01
0.128	0.141278	0.156645	1.48E-01	1.64E-01	1.45E-01	1.60E-01	1.44E-01
0.127	0.137364	0.143848	1.44E-01	1.60E-01	1.41E-01	1.47E-01	1.41E-01
0.125	0.133449	0.132898	1.40E-01	1.55E-01	1.37E-01	1.36E-01	1.37E-01
0.104	0.129535	0.123794	1.36E-01	1.49E-01	1.33E-01	1.27E-01	1.33E-01
0.088	0.092667	0.133358	9.95E-02	8.22E-02	9.61E-02	1.37E-01	9.52E-02
0.085	0.088637	0.110243	9.55E-02	8.02E-02	9.21E-02	1.14E-01	9.14E-02
0.084	0.084607	0.088974	9.14E-02	7.72E-02	8.80E-02	9.24E-02	8.77E-02
0.081	0.080577	0.069552	8.74E-02	7.31E-02	8.40E-02	7.30E-02	8.39E-02
0.08	0.076547	0.051977	8.34E-02	6.79E-02	8.00E-02	5.54E-02	8.01E-02
0.061	0.072517	0.036248	7.93E-02	6.17E-02	7.59E-02	3.97E-02	7.64E-02
0.43	0.344519	0.298981	3.51E-01	3.08E-01	3.36E-01	2.91E-01	3.41E-01
0.43	0.340951	0.302366	3.48E-01	3.06E-01	3.33E-01	2.94E-01	3.37E-01
0.431	0.337382	0.307598	3.44E-01	3.03E-01	3.29E-01	3.00E-01	3.34E-01
0.429	0.333814	0.314676	3.41E-01	2.99E-01	3.26E-01	3.07E-01	3.30E-01
0.425	0.330245	0.323601	3.37E-01	2.93E-01	3.22E-01	3.16E-01	3.26E-01
0.409	0.326677	0.334372	3.34E-01	2.87E-01	3.19E-01	3.26E-01	3.22E-01
0.339	0.316299	0.292936	3.23E-01	3.05E-01	3.08E-01	2.85E-01	3.13E-01
0.338	0.312673	0.293009	3.20E-01	3.03E-01	3.05E-01	2.85E-01	3.09E-01

0.337	0.309047	0.294928	3.16E-01	3.00E-01	3.01E-01	2.87E-01	3.05E-01
0.336	0.305421	0.298694	3.12E-01	2.95E-01	2.97E-01	2.91E-01	3.01E-01
0.334	0.301794	0.304306	3.09E-01	2.90E-01	2.94E-01	2.96E-01	2.98E-01
0.305	0.298168	0.311765	3.05E-01	2.84E-01	2.90E-01	3.04E-01	2.94E-01
0.242	0.288078	0.283635	2.95E-01	2.95E-01	2.80E-01	2.76E-01	2.84E-01
0.243	0.284395	0.280395	2.91E-01	2.93E-01	2.76E-01	2.72E-01	2.81E-01
0.245	0.280711	0.279002	2.88E-01	2.90E-01	2.73E-01	2.71E-01	2.77E-01
0.241	0.277027	0.279455	2.84E-01	2.86E-01	2.69E-01	2.71E-01	2.73E-01
0.239	0.273343	0.281755	2.80E-01	2.81E-01	2.65E-01	2.74E-01	2.69E-01
0.218	0.26966	0.285901	2.76E-01	2.75E-01	2.62E-01	2.78E-01	2.66E-01
0.162	0.231638	0.255264	2.38E-01	2.58E-01	2.24E-01	2.47E-01	2.28E-01
0.161	0.227839	0.245399	2.35E-01	2.56E-01	2.20E-01	2.37E-01	2.24E-01
0.159	0.22404	0.237381	2.31E-01	2.53E-01	2.16E-01	2.29E-01	2.20E-01
0.157	0.22024	0.231209	2.27E-01	2.49E-01	2.12E-01	2.23E-01	2.16E-01
0.156	0.216441	0.226884	2.23E-01	2.43E-01	2.08E-01	2.19E-01	2.13E-01
0.141	0.212642	0.224405	2.19E-01	2.37E-01	2.05E-01	2.16E-01	2.09E-01
0.116	0.175197	0.213869	1.82E-01	1.95E-01	1.67E-01	2.06E-01	1.71E-01
0.117	0.171283	0.197379	1.78E-01	1.94E-01	1.63E-01	1.89E-01	1.67E-01
0.117	0.167368	0.182735	1.74E-01	1.90E-01	1.59E-01	1.75E-01	1.63E-01
0.115	0.163454	0.169938	1.70E-01	1.86E-01	1.55E-01	1.62E-01	1.60E-01
0.118	0.159539	0.158987	1.66E-01	1.81E-01	1.51E-01	1.51E-01	1.56E-01
0.095	0.155625	0.149883	1.62E-01	1.75E-01	1.48E-01	1.42E-01	1.52E-01
0.081	0.118756	0.159448	1.26E-01	1.08E-01	1.11E-01	1.51E-01	1.14E-01
0.075	0.114727	0.136333	1.22E-01	1.06E-01	1.07E-01	1.28E-01	1.10E-01
0.08	0.110697	0.115064	1.18E-01	1.03E-01	1.03E-01	1.07E-01	1.07E-01
0.081	0.106667	0.095642	1.13E-01	9.92E-02	9.86E-02	8.76E-02	1.03E-01
0.075	0.102637	0.078067	1.09E-01	9.40E-02	9.46E-02	7.00E-02	9.91E-02
0.049	0.098607	0.062337	1.05E-01	8.77E-02	9.05E-02	5.43E-02	9.54E-02
0.157	0.21311	0.167572	2.09E-01	1.76E-01	2.23E-01	1.77E-01	2.13E-01
0.156	0.209541	0.170957	2.05E-01	1.74E-01	2.19E-01	1.80E-01	2.09E-01
0.155	0.205973	0.176189	2.02E-01	1.71E-01	2.15E-01	1.86E-01	2.05E-01
0.154	0.202405	0.183267	1.98E-01	1.67E-01	2.12E-01	1.93E-01	2.01E-01
0.157	0.198836	0.192192	1.94E-01	1.62E-01	2.08E-01	2.02E-01	1.98E-01
0.141	0.195268	0.202963	1.91E-01	1.56E-01	2.05E-01	2.12E-01	1.94E-01
0.116	0.18489	0.161527	1.81E-01	1.73E-01	1.94E-01	1.71E-01	1.84E-01
0.117	0.181263	0.161599	1.77E-01	1.71E-01	1.91E-01	1.71E-01	1.81E-01
0.115	0.177637	0.163519	1.73E-01	1.68E-01	1.87E-01	1.73E-01	1.77E-01
0.113	0.174011	0.167284	1.70E-01	1.64E-01	1.83E-01	1.77E-01	1.73E-01
0.114	0.170385	0.172897	1.66E-01	1.59E-01	1.80E-01	1.82E-01	1.69E-01
0.091	0.166759	0.180356	1.62E-01	1.53E-01	1.76E-01	1.90E-01	1.66E-01
0.093	0.156669	0.152226	1.52E-01	1.64E-01	1.66E-01	1.62E-01	1.56E-01
0.091	0.152985	0.148986	1.49E-01	1.62E-01	1.62E-01	1.58E-01	1.52E-01
0.092	0.149302	0.147593	1.45E-01	1.59E-01	1.59E-01	1.57E-01	1.49E-01
0.091	0.145618	0.148046	1.41E-01	1.55E-01	1.55E-01	1.57E-01	1.45E-01
0.086	0.141934	0.150345	1.38E-01	1.49E-01	1.51E-01	1.60E-01	1.41E-01
0.066	0.13825	0.154492	1.34E-01	1.43E-01	1.48E-01	1.64E-01	1.37E-01
0.063	0.100229	0.123855	9.59E-02	1.26E-01	1.10E-01	1.33E-01	9.93E-02
0.065	0.096429	0.11399	9.21E-02	1.24E-01	1.06E-01	1.23E-01	9.56E-02

0.065	0.09263	0.105972	8.83E-02	1.21E-01	1.02E-01	1.15E-01	9.18E-02
0.066	0.088831	0.0998	8.45E-02	1.17E-01	9.82E-02	1.09E-01	8.80E-02
0.059	0.085032	0.095474	8.07E-02	1.12E-01	9.44E-02	1.05E-01	8.42E-02
0.051	0.081233	0.092995	7.69E-02	1.06E-01	9.06E-02	1.02E-01	8.05E-02
0.041	0.043788	0.082459	3.94E-02	6.41E-02	5.32E-02	9.19E-02	4.26E-02
0.039	0.039873	0.065969	3.55E-02	6.21E-02	4.93E-02	7.54E-02	3.88E-02
0.04	0.035959	0.051326	3.16E-02	5.91E-02	4.54E-02	6.07E-02	3.51E-02
0.038	0.032044	0.038529	2.77E-02	5.50E-02	4.14E-02	4.79E-02	3.13E-02
0.037	0.02813	0.027578	2.38E-02	4.98E-02	3.75E-02	3.70E-02	2.75E-02
0.029	0.024215	0.018474	1.99E-02	4.35E-02	3.36E-02	2.79E-02	2.37E-02
0.021	-0.01265	0.028039	-1.70E-02	-2.31E-02	-3.25E-03	3.74E-02	-1.41E-02
0.019	-0.01668	0.004924	-2.10E-02	-2.51E-02	-7.28E-03	1.43E-02	-1.79E-02
0.022	-0.02071	-0.01634	-2.51E-02	-2.81E-02	-1.13E-02	-6.94E-03	-2.17E-02
0.018	-0.02474	-0.03577	-2.91E-02	-3.22E-02	-1.53E-02	-2.64E-02	-2.54E-02
0.016	-0.02877	-0.05334	-3.31E-02	-3.74E-02	-1.94E-02	-4.39E-02	-2.92E-02
0.007	-0.0328	-0.06907	-3.71E-02	-4.37E-02	-2.34E-02	-5.97E-02	-3.30E-02
0.218	0.2392	0.193662	2.35E-01	2.02E-01	2.37E-01	1.92E-01	2.40E-01
0.223	0.235631	0.197047	2.31E-01	2.00E-01	2.34E-01	1.95E-01	2.36E-01
0.223	0.232063	0.202279	2.28E-01	1.97E-01	2.30E-01	2.00E-01	2.32E-01
0.224	0.228495	0.209357	2.24E-01	1.93E-01	2.26E-01	2.07E-01	2.29E-01
0.225	0.224926	0.218282	2.21E-01	1.88E-01	2.23E-01	2.16E-01	2.25E-01
0.206	0.221358	0.229053	2.17E-01	1.82E-01	2.19E-01	2.27E-01	2.21E-01
0.175	0.210979	0.187617	2.07E-01	1.99E-01	2.09E-01	1.86E-01	2.12E-01
0.176	0.207353	0.187689	2.03E-01	1.97E-01	2.05E-01	1.86E-01	2.08E-01
0.177	0.203727	0.189609	1.99E-01	1.94E-01	2.02E-01	1.88E-01	2.04E-01
0.175	0.200101	0.193374	1.96E-01	1.90E-01	1.98E-01	1.91E-01	2.00E-01
0.171	0.196475	0.198987	1.92E-01	1.85E-01	1.94E-01	1.97E-01	1.96E-01
0.155	0.192849	0.206445	1.89E-01	1.79E-01	1.91E-01	2.04E-01	1.93E-01
0.136	0.182759	0.178316	1.78E-01	1.90E-01	1.81E-01	1.76E-01	1.83E-01
0.137	0.179075	0.175076	1.75E-01	1.88E-01	1.77E-01	1.73E-01	1.79E-01
0.138	0.175392	0.173682	1.71E-01	1.85E-01	1.73E-01	1.72E-01	1.76E-01
0.141	0.171708	0.174136	1.67E-01	1.81E-01	1.70E-01	1.72E-01	1.72E-01
0.135	0.168024	0.176435	1.64E-01	1.76E-01	1.66E-01	1.74E-01	1.68E-01
0.101	0.16434	0.180582	1.60E-01	1.69E-01	1.62E-01	1.78E-01	1.64E-01
0.109	0.126318	0.149945	1.22E-01	1.52E-01	1.24E-01	1.48E-01	1.26E-01
0.111	0.122519	0.14008	1.18E-01	1.51E-01	1.20E-01	1.38E-01	1.23E-01
0.112	0.11872	0.132061	1.14E-01	1.47E-01	1.17E-01	1.30E-01	1.19E-01
0.113	0.114921	0.12589	1.11E-01	1.43E-01	1.13E-01	1.24E-01	1.15E-01
0.107	0.111122	0.121564	1.07E-01	1.38E-01	1.09E-01	1.19E-01	1.11E-01
0.083	0.107323	0.119085	1.03E-01	1.32E-01	1.05E-01	1.17E-01	1.08E-01
0.081	0.069878	0.108549	6.55E-02	9.02E-02	6.78E-02	1.06E-01	6.97E-02
0.08	0.065963	0.092059	6.16E-02	8.82E-02	6.39E-02	9.00E-02	6.59E-02
0.079	0.062049	0.077416	5.77E-02	8.52E-02	6.00E-02	7.53E-02	6.22E-02
0.071	0.058134	0.064619	5.38E-02	8.11E-02	5.60E-02	6.25E-02	5.84E-02
0.075	0.05422	0.053668	4.99E-02	7.59E-02	5.21E-02	5.16E-02	5.46E-02
0.044	0.050305	0.044564	4.60E-02	6.96E-02	4.82E-02	4.25E-02	5.08E-02
0.036	0.013437	0.054129	9.09E-03	2.97E-03	1.13E-02	5.20E-02	1.30E-02
0.037	0.009407	0.031014	5.06E-03	1.00E-03	7.32E-03	2.89E-02	9.20E-03

0.034	0.005377	0.009745	1.03E-03	-2.03E-03	3.29E-03	7.65E-03	5.43E-03
0.033	0.001347	-0.00968	-3.00E-03	-6.14E-03	-7.44E-04	-1.18E-02	1.66E-03
0.031	-0.00268	-0.02725	-7.03E-03	-1.13E-02	-4.77E-03	-2.93E-02	-2.11E-03
0.011	-0.00671	-0.04298	-1.11E-02	-1.76E-02	-8.80E-03	-4.51E-02	-5.88E-03
0.308	0.29138	0.245841	2.87E-01	2.54E-01	2.95E-01	2.50E-01	2.94E-01
0.312	0.287811	0.249227	2.83E-01	2.53E-01	2.92E-01	2.53E-01	2.90E-01
0.315	0.284243	0.254458	2.80E-01	2.49E-01	2.88E-01	2.59E-01	2.87E-01
0.318	0.280674	0.261537	2.76E-01	2.45E-01	2.85E-01	2.66E-01	2.83E-01
0.314	0.277106	0.270462	2.73E-01	2.40E-01	2.81E-01	2.75E-01	2.79E-01
0.311	0.273538	0.281233	2.69E-01	2.34E-01	2.78E-01	2.85E-01	2.75E-01
0.286	0.263159	0.239797	2.59E-01	2.51E-01	2.67E-01	2.44E-01	2.66E-01
0.285	0.259533	0.239869	2.55E-01	2.49E-01	2.64E-01	2.44E-01	2.62E-01
0.278	0.255907	0.241788	2.52E-01	2.46E-01	2.60E-01	2.46E-01	2.58E-01
0.281	0.252281	0.245554	2.48E-01	2.42E-01	2.56E-01	2.50E-01	2.54E-01
0.271	0.248655	0.251167	2.44E-01	2.37E-01	2.53E-01	2.55E-01	2.51E-01
0.241	0.245029	0.258625	2.41E-01	2.31E-01	2.49E-01	2.63E-01	2.47E-01
0.174	0.234939	0.230495	2.31E-01	2.42E-01	2.39E-01	2.35E-01	2.37E-01
0.175	0.231255	0.227256	2.27E-01	2.40E-01	2.35E-01	2.31E-01	2.34E-01
0.17	0.227571	0.225862	2.23E-01	2.37E-01	2.32E-01	2.30E-01	2.30E-01
0.177	0.223888	0.226316	2.20E-01	2.33E-01	2.28E-01	2.30E-01	2.26E-01
0.169	0.220204	0.228615	2.16E-01	2.28E-01	2.24E-01	2.33E-01	2.22E-01
0.142	0.21652	0.232761	2.12E-01	2.21E-01	2.21E-01	2.37E-01	2.19E-01
0.123	0.178498	0.202125	1.74E-01	2.05E-01	1.83E-01	2.06E-01	1.81E-01
0.124	0.174699	0.19226	1.70E-01	2.03E-01	1.79E-01	1.96E-01	1.77E-01
0.125	0.1709	0.184241	1.67E-01	2.00E-01	1.75E-01	1.88E-01	1.73E-01
0.121	0.167101	0.178069	1.63E-01	1.96E-01	1.71E-01	1.82E-01	1.69E-01
0.123	0.163302	0.173744	1.59E-01	1.90E-01	1.67E-01	1.78E-01	1.66E-01
0.101	0.159503	0.171265	1.55E-01	1.84E-01	1.64E-01	1.75E-01	1.62E-01
0.075	0.122058	0.160729	1.18E-01	1.42E-01	1.26E-01	1.65E-01	1.24E-01
0.078	0.118143	0.144239	1.14E-01	1.40E-01	1.22E-01	1.48E-01	1.20E-01
0.079	0.114229	0.129595	1.10E-01	1.37E-01	1.18E-01	1.34E-01	1.16E-01
0.079	0.110314	0.116798	1.06E-01	1.33E-01	1.14E-01	1.21E-01	1.13E-01
0.081	0.1064	0.105848	1.02E-01	1.28E-01	1.11E-01	1.10E-01	1.09E-01
0.049	0.102485	0.096744	9.81E-02	1.22E-01	1.07E-01	1.01E-01	1.05E-01
0.036	0.065617	0.106309	6.13E-02	5.51E-02	6.97E-02	1.10E-01	6.72E-02
0.035	0.061587	0.083193	5.72E-02	5.32E-02	6.57E-02	8.73E-02	6.34E-02
0.034	0.057557	0.061925	5.32E-02	5.01E-02	6.17E-02	6.60E-02	5.96E-02
0.033	0.053527	0.042503	4.92E-02	4.60E-02	5.76E-02	4.66E-02	5.59E-02
0.027	0.049497	0.024927	4.52E-02	4.09E-02	5.36E-02	2.90E-02	5.21E-02
0.011	0.045468	0.009198	4.11E-02	3.46E-02	4.96E-02	1.33E-02	4.83E-02
0.222	0.228993	0.183455	2.25E-01	1.92E-01	2.31E-01	1.86E-01	2.29E-01
0.223	0.225424	0.18684	2.21E-01	1.90E-01	2.28E-01	1.89E-01	2.26E-01
0.226	0.221856	0.192072	2.18E-01	1.87E-01	2.24E-01	1.94E-01	2.22E-01
0.227	0.218288	0.19915	2.14E-01	1.83E-01	2.20E-01	2.01E-01	2.18E-01
0.228	0.214719	0.208075	2.10E-01	1.78E-01	2.17E-01	2.10E-01	2.14E-01
0.229	0.211151	0.218846	2.07E-01	1.72E-01	2.13E-01	2.21E-01	2.11E-01
0.181	0.200772	0.17741	1.96E-01	1.89E-01	2.03E-01	1.80E-01	2.01E-01
0.179	0.197146	0.177482	1.93E-01	1.87E-01	1.99E-01	1.80E-01	1.97E-01

0.178	0.19352	0.179402	1.89E-01	1.84E-01	1.96E-01	1.82E-01	1.93E-01
0.172	0.189894	0.183167	1.86E-01	1.80E-01	1.92E-01	1.85E-01	1.90E-01
0.171	0.186268	0.18878	1.82E-01	1.75E-01	1.88E-01	1.91E-01	1.86E-01
0.149	0.182642	0.196239	1.78E-01	1.68E-01	1.85E-01	1.98E-01	1.82E-01
0.133	0.172552	0.168109	1.68E-01	1.80E-01	1.75E-01	1.70E-01	1.73E-01
0.135	0.168868	0.164869	1.65E-01	1.78E-01	1.71E-01	1.67E-01	1.69E-01
0.131	0.165185	0.163475	1.61E-01	1.75E-01	1.67E-01	1.66E-01	1.65E-01
0.135	0.161501	0.163929	1.57E-01	1.71E-01	1.64E-01	1.66E-01	1.61E-01
0.131	0.157817	0.166228	1.53E-01	1.65E-01	1.60E-01	1.68E-01	1.58E-01
0.115	0.154133	0.170375	1.50E-01	1.59E-01	1.56E-01	1.73E-01	1.54E-01
0.101	0.116111	0.139738	1.12E-01	1.42E-01	1.18E-01	1.42E-01	1.16E-01
0.099	0.112312	0.129873	1.08E-01	1.40E-01	1.15E-01	1.32E-01	1.12E-01
0.098	0.108513	0.121855	1.04E-01	1.37E-01	1.11E-01	1.24E-01	1.08E-01
0.095	0.104714	0.115683	1.00E-01	1.33E-01	1.07E-01	1.18E-01	1.05E-01
0.093	0.100915	0.111357	9.66E-02	1.28E-01	1.03E-01	1.14E-01	1.01E-01
0.075	0.097116	0.108878	9.28E-02	1.22E-01	9.93E-02	1.11E-01	9.71E-02
0.065	0.059671	0.098342	5.53E-02	8.00E-02	6.19E-02	1.01E-01	5.92E-02
0.066	0.055756	0.081852	5.14E-02	7.80E-02	5.80E-02	8.41E-02	5.54E-02
0.061	0.051842	0.067209	4.75E-02	7.50E-02	5.41E-02	6.94E-02	5.17E-02
0.058	0.047927	0.054412	4.36E-02	7.09E-02	5.01E-02	5.66E-02	4.79E-02
0.055	0.044013	0.043461	3.97E-02	6.57E-02	4.62E-02	4.57E-02	4.41E-02
0.036	0.040098	0.034357	3.58E-02	5.94E-02	4.23E-02	3.66E-02	4.04E-02
0.022	0.00323	0.043922	-1.11E-03	-7.24E-03	5.44E-03	4.61E-02	2.47E-03
0.021	-0.0008	0.020807	-5.14E-03	-9.20E-03	1.41E-03	2.30E-02	-1.30E-03
0.019	-0.00483	-0.00046	-9.17E-03	-1.22E-02	-2.62E-03	1.75E-03	-5.07E-03
0.021	-0.00886	-0.01988	-1.32E-02	-1.64E-02	-6.65E-03	-1.77E-02	-8.84E-03
0.017	-0.01289	-0.03746	-1.72E-02	-2.15E-02	-1.07E-02	-3.53E-02	-1.26E-02
0.006	-0.01692	-0.05319	-2.13E-02	-2.78E-02	-1.47E-02	-5.10E-02	-1.64E-02
0.311	0.255083	0.209544	2.51E-01	2.18E-01	2.46E-01	2.00E-01	2.55E-01
0.313	0.251514	0.21293	2.47E-01	2.16E-01	2.42E-01	2.04E-01	2.51E-01
0.318	0.247946	0.218162	2.44E-01	2.13E-01	2.39E-01	2.09E-01	2.47E-01
0.315	0.244378	0.22524	2.40E-01	2.09E-01	2.35E-01	2.16E-01	2.44E-01
0.312	0.240809	0.234165	2.36E-01	2.04E-01	2.32E-01	2.25E-01	2.40E-01
0.309	0.237241	0.244936	2.33E-01	1.98E-01	2.28E-01	2.36E-01	2.36E-01
0.218	0.226862	0.2035	2.23E-01	2.15E-01	2.18E-01	1.94E-01	2.27E-01
0.219	0.223236	0.203572	2.19E-01	2.13E-01	2.14E-01	1.94E-01	2.23E-01
0.221	0.21961	0.205492	2.15E-01	2.10E-01	2.10E-01	1.96E-01	2.19E-01
0.215	0.215984	0.209257	2.12E-01	2.06E-01	2.07E-01	2.00E-01	2.15E-01
0.218	0.212358	0.21487	2.08E-01	2.01E-01	2.03E-01	2.06E-01	2.12E-01
0.193	0.208732	0.222328	2.04E-01	1.95E-01	1.99E-01	2.13E-01	2.08E-01
0.161	0.198642	0.194199	1.94E-01	2.06E-01	1.89E-01	1.85E-01	1.98E-01
0.158	0.194958	0.190959	1.91E-01	2.04E-01	1.86E-01	1.82E-01	1.95E-01
0.162	0.191275	0.189565	1.87E-01	2.01E-01	1.82E-01	1.80E-01	1.91E-01
0.161	0.187591	0.190019	1.83E-01	1.97E-01	1.78E-01	1.81E-01	1.87E-01
0.156	0.183907	0.192318	1.80E-01	1.91E-01	1.75E-01	1.83E-01	1.83E-01
0.139	0.180223	0.196465	1.76E-01	1.85E-01	1.71E-01	1.87E-01	1.79E-01
0.121	0.142201	0.165828	1.38E-01	1.68E-01	1.33E-01	1.57E-01	1.42E-01
0.123	0.138402	0.155963	1.34E-01	1.66E-01	1.29E-01	1.47E-01	1.38E-01

0.126	0.134603	0.147944	1.30E-01	1.63E-01	1.25E-01	1.39E-01	1.34E-01
0.127	0.130804	0.141773	1.26E-01	1.59E-01	1.22E-01	1.32E-01	1.30E-01
0.123	0.127005	0.137447	1.23E-01	1.54E-01	1.18E-01	1.28E-01	1.27E-01
0.096	0.123206	0.134968	1.19E-01	1.48E-01	1.14E-01	1.26E-01	1.23E-01
0.083	0.085761	0.124432	8.14E-02	1.06E-01	7.65E-02	1.15E-01	8.49E-02
0.081	0.081846	0.107942	7.75E-02	1.04E-01	7.26E-02	9.87E-02	8.11E-02
0.082	0.077932	0.093299	7.36E-02	1.01E-01	6.86E-02	8.40E-02	7.73E-02
0.081	0.074017	0.080502	6.97E-02	9.69E-02	6.47E-02	7.12E-02	7.35E-02
0.083	0.070103	0.069551	6.58E-02	9.18E-02	6.08E-02	6.03E-02	6.98E-02
0.059	0.066188	0.060447	6.19E-02	8.55E-02	5.69E-02	5.12E-02	6.60E-02
0.032	0.02932	0.070012	2.50E-02	1.89E-02	2.00E-02	6.07E-02	2.81E-02
0.031	0.02529	0.046897	2.10E-02	1.69E-02	1.60E-02	3.76E-02	2.44E-02
0.031	0.02126	0.025628	1.69E-02	1.38E-02	1.20E-02	1.63E-02	2.06E-02
0.029	0.01723	0.006206	1.29E-02	9.74E-03	7.94E-03	-3.08E-03	1.68E-02
0.031	0.013201	-0.01137	8.86E-03	4.56E-03	3.91E-03	-2.07E-02	1.30E-02
0.008	0.009171	-0.0271	4.83E-03	-1.70E-03	-1.17E-04	-3.64E-02	9.27E-03
0.42	0.307263	0.261724	3.03E-01	2.70E-01	3.04E-01	2.59E-01	3.06E-01
0.425	0.303694	0.26511	2.99E-01	2.68E-01	3.01E-01	2.62E-01	3.03E-01
0.423	0.300126	0.270341	2.96E-01	2.65E-01	2.97E-01	2.67E-01	2.99E-01
0.421	0.296557	0.27742	2.92E-01	2.61E-01	2.93E-01	2.74E-01	2.95E-01
0.413	0.292989	0.286345	2.89E-01	2.56E-01	2.90E-01	2.83E-01	2.91E-01
0.391	0.289421	0.297116	2.85E-01	2.50E-01	2.86E-01	2.94E-01	2.87E-01
0.261	0.279042	0.255679	2.75E-01	2.67E-01	2.76E-01	2.53E-01	2.78E-01
0.262	0.275416	0.255752	2.71E-01	2.65E-01	2.72E-01	2.53E-01	2.74E-01
0.263	0.27179	0.257671	2.67E-01	2.62E-01	2.69E-01	2.55E-01	2.70E-01
0.259	0.268164	0.261437	2.64E-01	2.58E-01	2.65E-01	2.58E-01	2.67E-01
0.254	0.264538	0.26705	2.60E-01	2.53E-01	2.61E-01	2.64E-01	2.63E-01
0.226	0.260912	0.274508	2.57E-01	2.47E-01	2.58E-01	2.71E-01	2.59E-01
0.172	0.250822	0.246378	2.46E-01	2.58E-01	2.48E-01	2.43E-01	2.50E-01
0.165	0.247138	0.243139	2.43E-01	2.56E-01	2.44E-01	2.40E-01	2.46E-01
0.163	0.243454	0.241745	2.39E-01	2.53E-01	2.40E-01	2.39E-01	2.42E-01
0.167	0.239771	0.242198	2.35E-01	2.49E-01	2.37E-01	2.39E-01	2.38E-01
0.161	0.236087	0.244498	2.32E-01	2.44E-01	2.33E-01	2.41E-01	2.35E-01
0.143	0.232403	0.248644	2.28E-01	2.37E-01	2.29E-01	2.46E-01	2.31E-01
0.118	0.194381	0.218008	1.90E-01	2.21E-01	1.91E-01	2.15E-01	1.93E-01
0.121	0.190582	0.208143	1.86E-01	2.19E-01	1.87E-01	2.05E-01	1.89E-01
0.123	0.186783	0.200124	1.82E-01	2.16E-01	1.84E-01	1.97E-01	1.85E-01
0.121	0.182984	0.193952	1.79E-01	2.11E-01	1.80E-01	1.91E-01	1.82E-01
0.119	0.179185	0.189627	1.75E-01	2.06E-01	1.76E-01	1.87E-01	1.78E-01
0.099	0.175386	0.187148	1.71E-01	2.00E-01	1.72E-01	1.84E-01	1.74E-01
0.088	0.137941	0.176612	1.34E-01	1.58E-01	1.35E-01	1.74E-01	1.36E-01
0.089	0.134026	0.160122	1.30E-01	1.56E-01	1.31E-01	1.57E-01	1.32E-01
0.085	0.130112	0.145478	1.26E-01	1.53E-01	1.27E-01	1.42E-01	1.29E-01
0.081	0.126197	0.132681	1.22E-01	1.49E-01	1.23E-01	1.30E-01	1.25E-01
0.075	0.122283	0.121731	1.18E-01	1.44E-01	1.19E-01	1.19E-01	1.21E-01
0.049	0.118368	0.112627	1.14E-01	1.38E-01	1.15E-01	1.10E-01	1.17E-01
0.041	0.0815	0.122192	7.72E-02	7.10E-02	7.84E-02	1.19E-01	7.94E-02
0.042	0.07747	0.099076	7.31E-02	6.91E-02	7.44E-02	9.60E-02	7.57E-02

0.036	0.07344	0.077808	6.91E-02	6.60E-02	7.04E-02	7.47E-02	7.19E-02
0.039	0.06941	0.058386	6.51E-02	6.19E-02	6.63E-02	5.53E-02	6.81E-02
0.033	0.06538	0.04081	6.10E-02	5.67E-02	6.23E-02	3.77E-02	6.43E-02
0.009	0.06135	0.025081	5.70E-02	5.05E-02	5.83E-02	2.20E-02	6.06E-02
0.408	0.30179	0.256251	2.97E-01	2.65E-01	3.05E-01	2.60E-01	3.05E-01
0.41	0.298221	0.259637	2.94E-01	2.63E-01	3.02E-01	2.63E-01	3.02E-01
0.411	0.294653	0.264869	2.90E-01	2.60E-01	2.98E-01	2.68E-01	2.98E-01
0.408	0.291084	0.271947	2.87E-01	2.56E-01	2.95E-01	2.75E-01	2.94E-01
0.388	0.287516	0.280872	2.83E-01	2.51E-01	2.91E-01	2.84E-01	2.90E-01
0.365	0.283948	0.291643	2.80E-01	2.44E-01	2.87E-01	2.95E-01	2.87E-01
0.271	0.273569	0.250207	2.69E-01	2.62E-01	2.77E-01	2.54E-01	2.77E-01
0.277	0.269943	0.250279	2.66E-01	2.60E-01	2.73E-01	2.54E-01	2.73E-01
0.275	0.266317	0.252199	2.62E-01	2.57E-01	2.70E-01	2.56E-01	2.70E-01
0.276	0.262691	0.255964	2.58E-01	2.53E-01	2.66E-01	2.59E-01	2.66E-01
0.253	0.259065	0.261577	2.55E-01	2.47E-01	2.62E-01	2.65E-01	2.62E-01
0.223	0.255439	0.269035	2.51E-01	2.41E-01	2.59E-01	2.72E-01	2.58E-01
0.171	0.245349	0.240906	2.41E-01	2.52E-01	2.49E-01	2.44E-01	2.49E-01
0.175	0.241665	0.237666	2.37E-01	2.50E-01	2.45E-01	2.41E-01	2.45E-01
0.176	0.237982	0.236272	2.34E-01	2.47E-01	2.41E-01	2.40E-01	2.41E-01
0.176	0.234298	0.236726	2.30E-01	2.43E-01	2.38E-01	2.40E-01	2.37E-01
0.177	0.230614	0.239025	2.26E-01	2.38E-01	2.34E-01	2.42E-01	2.34E-01
0.142	0.22693	0.243172	2.23E-01	2.32E-01	2.30E-01	2.47E-01	2.30E-01
0.118	0.188908	0.212535	1.85E-01	2.15E-01	1.92E-01	2.16E-01	1.92E-01
0.119	0.185109	0.20267	1.81E-01	2.13E-01	1.89E-01	2.06E-01	1.88E-01
0.121	0.18131	0.194651	1.77E-01	2.10E-01	1.85E-01	1.98E-01	1.84E-01
0.123	0.177511	0.18848	1.73E-01	2.06E-01	1.81E-01	1.92E-01	1.81E-01
0.121	0.173712	0.184154	1.69E-01	2.01E-01	1.77E-01	1.88E-01	1.77E-01
0.098	0.169913	0.181675	1.66E-01	1.95E-01	1.73E-01	1.85E-01	1.73E-01
0.086	0.132468	0.171139	1.28E-01	1.53E-01	1.36E-01	1.75E-01	1.35E-01
0.083	0.128553	0.154649	1.24E-01	1.51E-01	1.32E-01	1.58E-01	1.32E-01
0.081	0.124639	0.140006	1.20E-01	1.48E-01	1.28E-01	1.43E-01	1.28E-01
0.078	0.120724	0.127209	1.16E-01	1.44E-01	1.24E-01	1.31E-01	1.24E-01
0.082	0.11681	0.116258	1.13E-01	1.38E-01	1.20E-01	1.20E-01	1.20E-01
0.063	0.112895	0.107154	1.09E-01	1.32E-01	1.16E-01	1.11E-01	1.16E-01
0.045	0.076027	0.116719	7.17E-02	6.56E-02	7.95E-02	1.20E-01	7.86E-02
0.043	0.071997	0.093604	6.77E-02	6.36E-02	7.54E-02	9.70E-02	7.48E-02
0.041	0.067967	0.072335	6.37E-02	6.06E-02	7.14E-02	7.58E-02	7.10E-02
0.039	0.063937	0.052913	5.96E-02	5.64E-02	6.74E-02	5.63E-02	6.73E-02
0.041	0.059908	0.035337	5.56E-02	5.13E-02	6.33E-02	3.88E-02	6.35E-02
0.011	0.055878	0.019608	5.16E-02	4.50E-02	5.93E-02	2.30E-02	5.97E-02
0.44	0.32788	0.282341	3.24E-01	2.91E-01	3.20E-01	2.74E-01	3.24E-01
0.439	0.324311	0.285727	3.20E-01	2.89E-01	3.16E-01	2.78E-01	3.21E-01
0.43	0.320743	0.290958	3.16E-01	2.86E-01	3.13E-01	2.83E-01	3.17E-01
0.429	0.317174	0.298037	3.13E-01	2.82E-01	3.09E-01	2.90E-01	3.13E-01
0.418	0.313606	0.306962	3.09E-01	2.77E-01	3.06E-01	2.99E-01	3.09E-01
0.388	0.310038	0.317733	3.06E-01	2.70E-01	3.02E-01	3.10E-01	3.06E-01
0.266	0.299659	0.276297	2.95E-01	2.88E-01	2.92E-01	2.68E-01	2.96E-01
0.271	0.296033	0.276369	2.92E-01	2.86E-01	2.88E-01	2.68E-01	2.92E-01

0.272	0.292407	0.278289	2.88E-01	2.83E-01	2.84E-01	2.70E-01	2.89E-01
0.269	0.288781	0.282054	2.84E-01	2.79E-01	2.81E-01	2.74E-01	2.85E-01
0.248	0.285155	0.287667	2.81E-01	2.74E-01	2.77E-01	2.80E-01	2.81E-01
0.211	0.281529	0.295125	2.77E-01	2.67E-01	2.73E-01	2.87E-01	2.77E-01
0.171	0.271439	0.266995	2.67E-01	2.79E-01	2.63E-01	2.59E-01	2.68E-01
0.172	0.267755	0.263756	2.63E-01	2.77E-01	2.60E-01	2.56E-01	2.64E-01
0.169	0.264071	0.262362	2.60E-01	2.74E-01	2.56E-01	2.54E-01	2.60E-01
0.171	0.260388	0.262816	2.56E-01	2.69E-01	2.52E-01	2.55E-01	2.56E-01
0.172	0.256704	0.265115	2.52E-01	2.64E-01	2.49E-01	2.57E-01	2.53E-01
0.146	0.25302	0.269262	2.49E-01	2.58E-01	2.45E-01	2.61E-01	2.49E-01
0.113	0.214998	0.238625	2.11E-01	2.41E-01	2.07E-01	2.31E-01	2.11E-01
0.115	0.211199	0.22876	2.07E-01	2.39E-01	2.03E-01	2.21E-01	2.07E-01
0.116	0.2074	0.220741	2.03E-01	2.36E-01	1.99E-01	2.13E-01	2.03E-01
0.118	0.203601	0.214569	1.99E-01	2.32E-01	1.96E-01	2.07E-01	2.00E-01
0.119	0.199802	0.210244	1.95E-01	2.27E-01	1.92E-01	2.02E-01	1.96E-01
0.091	0.196003	0.207765	1.92E-01	2.21E-01	1.88E-01	2.00E-01	1.92E-01
0.077	0.158558	0.197229	1.54E-01	1.79E-01	1.50E-01	1.89E-01	1.54E-01
0.078	0.154643	0.180739	1.50E-01	1.77E-01	1.47E-01	1.73E-01	1.51E-01
0.078	0.150729	0.166096	1.46E-01	1.74E-01	1.43E-01	1.58E-01	1.47E-01
0.078	0.146814	0.153298	1.43E-01	1.70E-01	1.39E-01	1.45E-01	1.43E-01
0.079	0.1429	0.142348	1.39E-01	1.65E-01	1.35E-01	1.34E-01	1.39E-01
0.033	0.138985	0.133244	1.35E-01	1.58E-01	1.31E-01	1.25E-01	1.35E-01
0.035	0.102117	0.142809	9.78E-02	9.16E-02	9.41E-02	1.35E-01	9.76E-02
0.033	0.098087	0.119694	9.38E-02	8.97E-02	9.00E-02	1.12E-01	9.38E-02
0.031	0.094057	0.098425	8.98E-02	8.66E-02	8.60E-02	9.04E-02	9.00E-02
0.031	0.090027	0.079003	8.57E-02	8.25E-02	8.20E-02	7.09E-02	8.63E-02
0.031	0.085997	0.061427	8.17E-02	7.74E-02	7.79E-02	5.34E-02	8.25E-02
0.006	0.081968	0.045698	7.77E-02	7.11E-02	7.39E-02	3.76E-02	7.87E-02
0.157	0.257473	0.211934	2.55E-01	2.21E-01	2.67E-01	2.21E-01	2.57E-01
0.161	0.253904	0.21532	2.51E-01	2.19E-01	2.63E-01	2.25E-01	2.53E-01
0.165	0.250336	0.220551	2.48E-01	2.16E-01	2.60E-01	2.30E-01	2.50E-01
0.168	0.246767	0.22763	2.44E-01	2.11E-01	2.56E-01	2.37E-01	2.46E-01
0.153	0.243199	0.236555	2.41E-01	2.06E-01	2.53E-01	2.46E-01	2.42E-01
0.156	0.23963	0.247326	2.37E-01	2.00E-01	2.49E-01	2.57E-01	2.38E-01
0.143	0.229252	0.205889	2.27E-01	2.17E-01	2.39E-01	2.15E-01	2.29E-01
0.142	0.225626	0.205962	2.23E-01	2.15E-01	2.35E-01	2.15E-01	2.25E-01
0.141	0.222	0.207881	2.20E-01	2.12E-01	2.31E-01	2.17E-01	2.21E-01
0.156	0.218374	0.211647	2.16E-01	2.08E-01	2.28E-01	2.21E-01	2.17E-01
0.141	0.214748	0.217259	2.12E-01	2.03E-01	2.24E-01	2.27E-01	2.14E-01
0.139	0.211122	0.224718	2.09E-01	1.97E-01	2.20E-01	2.34E-01	2.10E-01
0.125	0.201032	0.196588	1.99E-01	2.08E-01	2.10E-01	2.06E-01	2.00E-01
0.121	0.197348	0.193349	1.95E-01	2.06E-01	2.07E-01	2.03E-01	1.97E-01
0.121	0.193664	0.191955	1.91E-01	2.03E-01	2.03E-01	2.01E-01	1.93E-01
0.129	0.189981	0.192408	1.88E-01	1.99E-01	1.99E-01	2.02E-01	1.89E-01
0.117	0.186297	0.194708	1.84E-01	1.94E-01	1.96E-01	2.04E-01	1.85E-01
0.105	0.182613	0.198854	1.80E-01	1.88E-01	1.92E-01	2.08E-01	1.82E-01
0.109	0.144591	0.168218	1.42E-01	1.71E-01	1.54E-01	1.78E-01	1.44E-01
0.108	0.140792	0.158353	1.38E-01	1.69E-01	1.50E-01	1.68E-01	1.40E-01

0.101	0.136993	0.150334	1.35E-01	1.66E-01	1.46E-01	1.60E-01	1.36E-01
0.103	0.133194	0.144162	1.31E-01	1.62E-01	1.43E-01	1.53E-01	1.32E-01
0.105	0.129395	0.139837	1.27E-01	1.56E-01	1.39E-01	1.49E-01	1.29E-01
0.069	0.125595	0.137358	1.23E-01	1.50E-01	1.35E-01	1.47E-01	1.25E-01
0.081	0.088151	0.126822	8.57E-02	1.08E-01	9.75E-02	1.36E-01	8.69E-02
0.069	0.084236	0.110332	8.18E-02	1.06E-01	9.36E-02	1.20E-01	8.32E-02
0.071	0.080322	0.095688	7.79E-02	1.03E-01	8.96E-02	1.05E-01	7.94E-02
0.069	0.076407	0.082891	7.40E-02	9.93E-02	8.57E-02	9.22E-02	7.56E-02
0.072	0.072492	0.071941	7.00E-02	9.42E-02	8.18E-02	8.13E-02	7.19E-02
0.048	0.068578	0.062837	6.61E-02	8.79E-02	7.79E-02	7.22E-02	6.81E-02
0.06	0.03171	0.072402	2.93E-02	2.12E-02	4.10E-02	8.17E-02	3.02E-02
0.053	0.02768	0.049286	2.52E-02	1.93E-02	3.70E-02	5.86E-02	2.64E-02
0.054	0.02365	0.028018	2.12E-02	1.62E-02	3.30E-02	3.73E-02	2.27E-02
0.061	0.01962	0.008596	1.72E-02	1.21E-02	2.89E-02	1.79E-02	1.89E-02
0.048	0.01559	-0.00898	1.31E-02	6.95E-03	2.49E-02	3.42E-04	1.51E-02
0.039	0.01156	-0.02471	9.12E-03	6.94E-04	2.09E-02	-1.54E-02	1.14E-02
0.245	0.283563	0.238024	2.81E-01	2.47E-01	2.81E-01	2.36E-01	2.84E-01
0.242	0.279994	0.24141	2.78E-01	2.45E-01	2.78E-01	2.39E-01	2.80E-01
0.243	0.276426	0.246641	2.74E-01	2.42E-01	2.74E-01	2.44E-01	2.77E-01
0.239	0.272857	0.25372	2.70E-01	2.38E-01	2.71E-01	2.52E-01	2.73E-01
0.241	0.269289	0.262644	2.67E-01	2.32E-01	2.67E-01	2.60E-01	2.69E-01
0.232	0.26572	0.273416	2.63E-01	2.26E-01	2.64E-01	2.71E-01	2.65E-01
0.218	0.255342	0.231979	2.53E-01	2.44E-01	2.53E-01	2.30E-01	2.56E-01
0.223	0.251716	0.232052	2.49E-01	2.42E-01	2.50E-01	2.30E-01	2.52E-01
0.226	0.24809	0.233971	2.46E-01	2.39E-01	2.46E-01	2.32E-01	2.48E-01
0.217	0.244464	0.237737	2.42E-01	2.34E-01	2.42E-01	2.36E-01	2.45E-01
0.216	0.240838	0.243349	2.38E-01	2.29E-01	2.39E-01	2.41E-01	2.41E-01
0.174	0.237212	0.250808	2.35E-01	2.23E-01	2.35E-01	2.49E-01	2.37E-01
0.175	0.227122	0.222678	2.25E-01	2.34E-01	2.25E-01	2.21E-01	2.27E-01
0.176	0.223438	0.219439	2.21E-01	2.32E-01	2.21E-01	2.17E-01	2.24E-01
0.177	0.219754	0.218045	2.17E-01	2.29E-01	2.18E-01	2.16E-01	2.20E-01
0.178	0.21607	0.218498	2.14E-01	2.25E-01	2.14E-01	2.16E-01	2.16E-01
0.175	0.212387	0.220798	2.10E-01	2.20E-01	2.10E-01	2.19E-01	2.12E-01
0.149	0.208703	0.224944	2.06E-01	2.14E-01	2.07E-01	2.23E-01	2.09E-01
0.144	0.170681	0.194308	1.68E-01	1.97E-01	1.69E-01	1.92E-01	1.71E-01
0.148	0.166882	0.184443	1.64E-01	1.95E-01	1.65E-01	1.82E-01	1.67E-01
0.146	0.163083	0.176424	1.61E-01	1.92E-01	1.61E-01	1.74E-01	1.63E-01
0.151	0.159284	0.170252	1.57E-01	1.88E-01	1.57E-01	1.68E-01	1.59E-01
0.156	0.155485	0.165927	1.53E-01	1.83E-01	1.53E-01	1.64E-01	1.56E-01
0.121	0.151685	0.163448	1.49E-01	1.76E-01	1.50E-01	1.61E-01	1.52E-01
0.119	0.11424	0.152912	1.12E-01	1.35E-01	1.12E-01	1.51E-01	1.14E-01
0.125	0.110326	0.136422	1.08E-01	1.33E-01	1.08E-01	1.34E-01	1.10E-01
0.121	0.106411	0.121778	1.04E-01	1.30E-01	1.04E-01	1.20E-01	1.06E-01
0.126	0.102497	0.108981	1.00E-01	1.25E-01	1.00E-01	1.07E-01	1.03E-01
0.111	0.098582	0.098031	9.61E-02	1.20E-01	9.64E-02	9.59E-02	9.90E-02
0.095	0.094668	0.088927	9.22E-02	1.14E-01	9.25E-02	8.68E-02	9.52E-02
0.091	0.0578	0.098492	5.54E-02	4.73E-02	5.56E-02	9.63E-02	5.73E-02
0.089	0.05377	0.075376	5.13E-02	4.54E-02	5.16E-02	7.32E-02	5.35E-02

0.088	0.04974	0.054108	4.73E-02	4.23E-02	4.76E-02	5.19E-02	4.98E-02
0.088	0.04571	0.034686	4.33E-02	3.82E-02	4.35E-02	3.25E-02	4.60E-02
0.087	0.04168	0.01711	3.92E-02	3.30E-02	3.95E-02	1.49E-02	4.22E-02
0.045	0.03765	0.001381	3.52E-02	2.68E-02	3.55E-02	-7.93E-04	3.85E-02
0.334	0.335742	0.290204	3.33E-01	2.99E-01	3.40E-01	2.94E-01	3.38E-01
0.331	0.332174	0.293589	3.30E-01	2.97E-01	3.36E-01	2.98E-01	3.35E-01
0.332	0.328606	0.298821	3.26E-01	2.94E-01	3.33E-01	3.03E-01	3.31E-01
0.326	0.325037	0.3059	3.23E-01	2.90E-01	3.29E-01	3.10E-01	3.27E-01
0.333	0.321469	0.314824	3.19E-01	2.85E-01	3.25E-01	3.19E-01	3.23E-01
0.305	0.3179	0.325596	3.15E-01	2.78E-01	3.22E-01	3.30E-01	3.20E-01
0.307	0.307522	0.284159	3.05E-01	2.96E-01	3.12E-01	2.88E-01	3.10E-01
0.311	0.303896	0.284232	3.01E-01	2.94E-01	3.08E-01	2.88E-01	3.06E-01
0.31	0.30027	0.286151	2.98E-01	2.91E-01	3.04E-01	2.90E-01	3.03E-01
0.308	0.296644	0.289917	2.94E-01	2.87E-01	3.01E-01	2.94E-01	2.99E-01
0.295	0.293018	0.295529	2.91E-01	2.81E-01	2.97E-01	3.00E-01	2.95E-01
0.256	0.289392	0.302988	2.87E-01	2.75E-01	2.93E-01	3.07E-01	2.91E-01
0.254	0.279302	0.274858	2.77E-01	2.86E-01	2.83E-01	2.79E-01	2.82E-01
0.249	0.275618	0.271618	2.73E-01	2.84E-01	2.80E-01	2.76E-01	2.78E-01
0.253	0.271934	0.270225	2.69E-01	2.81E-01	2.76E-01	2.74E-01	2.74E-01
0.248	0.26825	0.270678	2.66E-01	2.77E-01	2.72E-01	2.75E-01	2.70E-01
0.251	0.264567	0.272978	2.62E-01	2.72E-01	2.69E-01	2.77E-01	2.67E-01
0.204	0.260883	0.277124	2.58E-01	2.66E-01	2.65E-01	2.81E-01	2.63E-01
0.167	0.222861	0.246487	2.20E-01	2.49E-01	2.27E-01	2.51E-01	2.25E-01
0.161	0.219062	0.236622	2.17E-01	2.47E-01	2.23E-01	2.41E-01	2.21E-01
0.159	0.215263	0.228604	2.13E-01	2.44E-01	2.19E-01	2.33E-01	2.17E-01
0.168	0.211464	0.222432	2.09E-01	2.40E-01	2.15E-01	2.26E-01	2.14E-01
0.164	0.207664	0.218107	2.05E-01	2.35E-01	2.12E-01	2.22E-01	2.10E-01
0.151	0.203865	0.215628	2.01E-01	2.28E-01	2.08E-01	2.20E-01	2.06E-01
0.121	0.16642	0.205092	1.64E-01	1.87E-01	1.70E-01	2.09E-01	1.68E-01
0.122	0.162506	0.188602	1.60E-01	1.85E-01	1.67E-01	1.93E-01	1.64E-01
0.123	0.158591	0.173958	1.56E-01	1.82E-01	1.63E-01	1.78E-01	1.61E-01
0.121	0.154677	0.161161	1.52E-01	1.78E-01	1.59E-01	1.65E-01	1.57E-01
0.12	0.150762	0.150211	1.48E-01	1.72E-01	1.55E-01	1.54E-01	1.53E-01
0.092	0.146848	0.141107	1.44E-01	1.66E-01	1.51E-01	1.45E-01	1.49E-01
0.085	0.10998	0.150671	1.08E-01	9.95E-02	1.14E-01	1.55E-01	1.12E-01
0.086	0.10595	0.127556	1.04E-01	9.75E-02	1.10E-01	1.32E-01	1.08E-01
0.089	0.10192	0.106288	9.95E-02	9.45E-02	1.06E-01	1.10E-01	1.04E-01
0.081	0.09789	0.086865	9.54E-02	9.04E-02	1.02E-01	9.09E-02	1.00E-01
0.082	0.09386	0.06929	9.14E-02	8.52E-02	9.79E-02	7.33E-02	9.64E-02
0.057	0.08983	0.053561	8.74E-02	7.90E-02	9.39E-02	5.76E-02	9.27E-02
0.235	0.273356	0.227817	2.71E-01	2.36E-01	2.75E-01	2.30E-01	2.74E-01
0.234	0.269787	0.231203	2.67E-01	2.34E-01	2.72E-01	2.33E-01	2.70E-01
0.235	0.266219	0.236434	2.64E-01	2.31E-01	2.68E-01	2.39E-01	2.66E-01
0.236	0.26265	0.243513	2.60E-01	2.27E-01	2.65E-01	2.46E-01	2.62E-01
0.228	0.259082	0.252438	2.57E-01	2.22E-01	2.61E-01	2.55E-01	2.59E-01
0.221	0.255513	0.263209	2.53E-01	2.16E-01	2.58E-01	2.65E-01	2.55E-01
0.21	0.245135	0.221772	2.43E-01	2.33E-01	2.47E-01	2.24E-01	2.45E-01
0.211	0.241509	0.221845	2.39E-01	2.31E-01	2.44E-01	2.24E-01	2.42E-01

0.211	0.237883	0.223764	2.35E-01	2.28E-01	2.40E-01	2.26E-01	2.38E-01
0.209	0.234257	0.22753	2.32E-01	2.24E-01	2.36E-01	2.30E-01	2.34E-01
0.205	0.230631	0.233142	2.28E-01	2.19E-01	2.33E-01	2.35E-01	2.30E-01
0.195	0.227005	0.240601	2.25E-01	2.13E-01	2.29E-01	2.43E-01	2.27E-01
0.187	0.216915	0.212471	2.14E-01	2.24E-01	2.19E-01	2.15E-01	2.17E-01
0.191	0.213231	0.209232	2.11E-01	2.22E-01	2.15E-01	2.11E-01	2.13E-01
0.192	0.209547	0.207838	2.07E-01	2.19E-01	2.12E-01	2.10E-01	2.09E-01
0.191	0.205864	0.208291	2.03E-01	2.15E-01	2.08E-01	2.10E-01	2.06E-01
0.193	0.20218	0.210591	2.00E-01	2.10E-01	2.04E-01	2.13E-01	2.02E-01
0.165	0.198496	0.214737	1.96E-01	2.03E-01	2.01E-01	2.17E-01	1.98E-01
0.141	0.160474	0.184101	1.58E-01	1.87E-01	1.63E-01	1.86E-01	1.60E-01
0.146	0.156675	0.174236	1.54E-01	1.85E-01	1.59E-01	1.76E-01	1.56E-01
0.143	0.152876	0.166217	1.50E-01	1.82E-01	1.55E-01	1.68E-01	1.53E-01
0.141	0.149077	0.160045	1.47E-01	1.78E-01	1.51E-01	1.62E-01	1.49E-01
0.145	0.145278	0.15572	1.43E-01	1.72E-01	1.47E-01	1.58E-01	1.45E-01
0.123	0.141478	0.153241	1.39E-01	1.66E-01	1.44E-01	1.55E-01	1.41E-01
0.123	0.104034	0.142705	1.02E-01	1.24E-01	1.06E-01	1.45E-01	1.04E-01
0.119	0.100119	0.126215	9.77E-02	1.22E-01	1.02E-01	1.28E-01	9.98E-02
0.115	0.096204	0.111571	9.38E-02	1.19E-01	9.83E-02	1.14E-01	9.60E-02
0.119	0.09229	0.098774	8.99E-02	1.15E-01	9.44E-02	1.01E-01	9.22E-02
0.114	0.088375	0.087824	8.59E-02	1.10E-01	9.05E-02	8.99E-02	8.85E-02
0.088	0.084461	0.07872	8.20E-02	1.04E-01	8.66E-02	8.08E-02	8.47E-02
0.093	0.047593	0.088285	4.52E-02	3.71E-02	4.97E-02	9.04E-02	4.68E-02
0.088	0.043563	0.065169	4.11E-02	3.52E-02	4.57E-02	6.73E-02	4.30E-02
0.091	0.039533	0.043901	3.71E-02	3.21E-02	4.17E-02	4.60E-02	3.93E-02
0.087	0.035503	0.024479	3.31E-02	2.80E-02	3.76E-02	2.66E-02	3.55E-02
0.086	0.031473	0.006903	2.90E-02	2.28E-02	3.36E-02	9.03E-03	3.17E-02
0.062	0.027443	-0.00883	2.50E-02	1.66E-02	2.96E-02	-6.70E-03	2.80E-02
0.329	0.299446	0.253907	2.97E-01	2.63E-01	2.90E-01	2.45E-01	2.99E-01
0.328	0.295877	0.257292	2.93E-01	2.61E-01	2.87E-01	2.48E-01	2.96E-01
0.331	0.292309	0.262524	2.90E-01	2.58E-01	2.83E-01	2.53E-01	2.92E-01
0.325	0.28874	0.269603	2.86E-01	2.53E-01	2.79E-01	2.60E-01	2.88E-01
0.327	0.285172	0.278527	2.83E-01	2.48E-01	2.76E-01	2.69E-01	2.84E-01
0.321	0.281603	0.289299	2.79E-01	2.42E-01	2.72E-01	2.80E-01	2.81E-01
0.281	0.271225	0.247862	2.69E-01	2.59E-01	2.62E-01	2.38E-01	2.71E-01
0.279	0.267599	0.247935	2.65E-01	2.57E-01	2.58E-01	2.39E-01	2.67E-01
0.283	0.263973	0.249854	2.62E-01	2.54E-01	2.55E-01	2.40E-01	2.63E-01
0.284	0.260347	0.25362	2.58E-01	2.50E-01	2.51E-01	2.44E-01	2.60E-01
0.278	0.256721	0.259232	2.54E-01	2.45E-01	2.47E-01	2.50E-01	2.56E-01
0.266	0.253095	0.266691	2.51E-01	2.39E-01	2.44E-01	2.57E-01	2.52E-01
0.232	0.243005	0.238561	2.41E-01	2.50E-01	2.34E-01	2.29E-01	2.43E-01
0.235	0.239321	0.235321	2.37E-01	2.48E-01	2.30E-01	2.26E-01	2.39E-01
0.235	0.235637	0.233928	2.33E-01	2.45E-01	2.26E-01	2.25E-01	2.35E-01
0.236	0.231953	0.234381	2.30E-01	2.41E-01	2.23E-01	2.25E-01	2.31E-01
0.231	0.22827	0.236681	2.26E-01	2.36E-01	2.19E-01	2.27E-01	2.28E-01
0.217	0.224586	0.240827	2.22E-01	2.30E-01	2.15E-01	2.31E-01	2.24E-01
0.173	0.186564	0.210191	1.84E-01	2.13E-01	1.77E-01	2.01E-01	1.86E-01
0.171	0.182765	0.200326	1.80E-01	2.11E-01	1.73E-01	1.91E-01	1.82E-01

0.169	0.178966	0.192307	1.77E-01	2.08E-01	1.70E-01	1.83E-01	1.78E-01
0.175	0.175167	0.186135	1.73E-01	2.04E-01	1.66E-01	1.77E-01	1.75E-01
0.176	0.171368	0.18181	1.69E-01	1.98E-01	1.62E-01	1.72E-01	1.71E-01
0.143	0.167568	0.179331	1.65E-01	1.92E-01	1.58E-01	1.70E-01	1.67E-01
0.129	0.130123	0.168795	1.28E-01	1.50E-01	1.21E-01	1.59E-01	1.29E-01
0.128	0.126209	0.152305	1.24E-01	1.48E-01	1.17E-01	1.43E-01	1.25E-01
0.129	0.122294	0.137661	1.20E-01	1.45E-01	1.13E-01	1.28E-01	1.22E-01
0.127	0.11838	0.124864	1.16E-01	1.41E-01	1.09E-01	1.15E-01	1.18E-01
0.127	0.114465	0.113914	1.12E-01	1.36E-01	1.05E-01	1.05E-01	1.14E-01
0.111	0.110551	0.10481	1.08E-01	1.30E-01	1.01E-01	9.54E-02	1.10E-01
0.098	0.073683	0.114374	7.12E-02	6.32E-02	6.43E-02	1.05E-01	7.25E-02
0.099	0.069653	0.091259	6.72E-02	6.12E-02	6.03E-02	8.19E-02	6.87E-02
0.093	0.065623	0.069991	6.32E-02	5.82E-02	5.63E-02	6.06E-02	6.49E-02
0.095	0.061593	0.050568	5.92E-02	5.41E-02	5.22E-02	4.12E-02	6.11E-02
0.088	0.057563	0.032993	5.51E-02	4.89E-02	4.82E-02	2.36E-02	5.74E-02
0.057	0.053533	0.017264	5.11E-02	4.27E-02	4.42E-02	7.89E-03	5.36E-02
0.421	0.351625	0.306087	3.49E-01	3.15E-01	3.48E-01	3.03E-01	3.51E-01
0.419	0.348057	0.309472	3.46E-01	3.13E-01	3.45E-01	3.06E-01	3.47E-01
0.418	0.344489	0.314704	3.42E-01	3.10E-01	3.41E-01	3.12E-01	3.43E-01
0.422	0.34092	0.321782	3.38E-01	3.06E-01	3.38E-01	3.19E-01	3.39E-01
0.418	0.337352	0.330707	3.35E-01	3.00E-01	3.34E-01	3.28E-01	3.36E-01
0.414	0.333783	0.341479	3.31E-01	2.94E-01	3.31E-01	3.38E-01	3.32E-01
0.375	0.323405	0.300042	3.21E-01	3.12E-01	3.20E-01	2.97E-01	3.22E-01
0.371	0.319779	0.300115	3.17E-01	3.10E-01	3.17E-01	2.97E-01	3.19E-01
0.368	0.316153	0.302034	3.14E-01	3.07E-01	3.13E-01	2.99E-01	3.15E-01
0.376	0.312527	0.3058	3.10E-01	3.02E-01	3.09E-01	3.03E-01	3.11E-01
0.373	0.308901	0.311412	3.06E-01	2.97E-01	3.06E-01	3.08E-01	3.07E-01
0.351	0.305274	0.318871	3.03E-01	2.91E-01	3.02E-01	3.16E-01	3.03E-01
0.301	0.295185	0.290741	2.93E-01	3.02E-01	2.92E-01	2.88E-01	2.94E-01
0.298	0.291501	0.287501	2.89E-01	3.00E-01	2.88E-01	2.84E-01	2.90E-01
0.299	0.287817	0.286108	2.85E-01	2.97E-01	2.85E-01	2.83E-01	2.86E-01
0.305	0.284133	0.286561	2.82E-01	2.93E-01	2.81E-01	2.83E-01	2.83E-01
0.294	0.28045	0.288861	2.78E-01	2.88E-01	2.77E-01	2.86E-01	2.79E-01
0.277	0.276766	0.293007	2.74E-01	2.82E-01	2.74E-01	2.90E-01	2.75E-01
0.181	0.238744	0.26237	2.36E-01	2.65E-01	2.36E-01	2.59E-01	2.37E-01
0.182	0.234945	0.252505	2.33E-01	2.63E-01	2.32E-01	2.49E-01	2.33E-01
0.182	0.231146	0.244487	2.29E-01	2.60E-01	2.28E-01	2.41E-01	2.30E-01
0.183	0.227347	0.238315	2.25E-01	2.56E-01	2.24E-01	2.35E-01	2.26E-01
0.178	0.223547	0.23399	2.21E-01	2.51E-01	2.20E-01	2.31E-01	2.22E-01
0.16	0.219748	0.231511	2.17E-01	2.44E-01	2.17E-01	2.28E-01	2.18E-01
0.125	0.182303	0.220975	1.80E-01	2.03E-01	1.79E-01	2.18E-01	1.80E-01
0.131	0.178389	0.204485	1.76E-01	2.01E-01	1.75E-01	2.01E-01	1.77E-01
0.131	0.174474	0.189841	1.72E-01	1.98E-01	1.71E-01	1.87E-01	1.73E-01
0.132	0.17056	0.177044	1.68E-01	1.93E-01	1.67E-01	1.74E-01	1.69E-01
0.135	0.166645	0.166094	1.64E-01	1.88E-01	1.63E-01	1.63E-01	1.65E-01
0.112	0.162731	0.15699	1.60E-01	1.82E-01	1.60E-01	1.54E-01	1.62E-01
0.101	0.125863	0.166554	1.23E-01	1.15E-01	1.23E-01	1.63E-01	1.24E-01
0.093	0.121833	0.143439	1.19E-01	1.13E-01	1.19E-01	1.40E-01	1.20E-01

0.096	0.117803	0.122171	1.15E-01	1.10E-01	1.15E-01	1.19E-01	1.16E-01
0.088	0.113773	0.102748	1.11E-01	1.06E-01	1.11E-01	9.96E-02	1.12E-01
0.092	0.109743	0.085173	1.07E-01	1.01E-01	1.07E-01	8.20E-02	1.09E-01
0.068	0.105713	0.069444	1.03E-01	9.48E-02	1.03E-01	6.63E-02	1.05E-01
0.413	0.346152	0.300614	3.44E-01	3.09E-01	3.49E-01	3.04E-01	3.50E-01
0.418	0.342584	0.303999	3.40E-01	3.07E-01	3.46E-01	3.07E-01	3.46E-01
0.417	0.339016	0.309231	3.37E-01	3.04E-01	3.42E-01	3.13E-01	3.42E-01
0.418	0.335447	0.31631	3.33E-01	3.00E-01	3.39E-01	3.20E-01	3.39E-01
0.416	0.331879	0.325234	3.29E-01	2.95E-01	3.35E-01	3.29E-01	3.35E-01
0.411	0.32831	0.336006	3.26E-01	2.89E-01	3.32E-01	3.39E-01	3.31E-01
0.325	0.317932	0.294569	3.16E-01	3.06E-01	3.21E-01	2.98E-01	3.21E-01
0.326	0.314306	0.294642	3.12E-01	3.04E-01	3.18E-01	2.98E-01	3.18E-01
0.321	0.31068	0.296561	3.08E-01	3.01E-01	3.14E-01	3.00E-01	3.14E-01
0.324	0.307054	0.300327	3.05E-01	2.97E-01	3.10E-01	3.04E-01	3.10E-01
0.319	0.303428	0.305939	3.01E-01	2.92E-01	3.07E-01	3.09E-01	3.06E-01
0.295	0.299802	0.313398	2.97E-01	2.86E-01	3.03E-01	3.17E-01	3.03E-01
0.265	0.289712	0.285268	2.87E-01	2.97E-01	2.93E-01	2.89E-01	2.93E-01
0.261	0.286028	0.282028	2.84E-01	2.95E-01	2.89E-01	2.85E-01	2.89E-01
0.262	0.282344	0.280635	2.80E-01	2.92E-01	2.86E-01	2.84E-01	2.86E-01
0.263	0.27866	0.281088	2.76E-01	2.88E-01	2.82E-01	2.84E-01	2.82E-01
0.261	0.274977	0.283388	2.73E-01	2.83E-01	2.78E-01	2.87E-01	2.78E-01
0.247	0.271293	0.287534	2.69E-01	2.76E-01	2.75E-01	2.91E-01	2.74E-01
0.201	0.233271	0.256898	2.31E-01	2.59E-01	2.37E-01	2.60E-01	2.36E-01
0.202	0.229472	0.247033	2.27E-01	2.57E-01	2.33E-01	2.50E-01	2.33E-01
0.199	0.225673	0.239014	2.23E-01	2.54E-01	2.29E-01	2.42E-01	2.29E-01
0.186	0.221874	0.232842	2.19E-01	2.50E-01	2.25E-01	2.36E-01	2.25E-01
0.184	0.218075	0.228517	2.16E-01	2.45E-01	2.21E-01	2.32E-01	2.21E-01
0.159	0.214275	0.226038	2.12E-01	2.39E-01	2.18E-01	2.29E-01	2.18E-01
0.156	0.17683	0.215502	1.74E-01	1.97E-01	1.80E-01	2.19E-01	1.80E-01
0.157	0.172916	0.199012	1.71E-01	1.95E-01	1.76E-01	2.02E-01	1.76E-01
0.154	0.169001	0.184368	1.67E-01	1.92E-01	1.72E-01	1.88E-01	1.72E-01
0.153	0.165087	0.171571	1.63E-01	1.88E-01	1.68E-01	1.75E-01	1.68E-01
0.152	0.161172	0.160621	1.59E-01	1.83E-01	1.65E-01	1.64E-01	1.65E-01
0.136	0.157258	0.151517	1.55E-01	1.77E-01	1.61E-01	1.55E-01	1.61E-01
0.115	0.12039	0.161081	1.18E-01	1.10E-01	1.24E-01	1.64E-01	1.23E-01
0.114	0.11636	0.137966	1.14E-01	1.08E-01	1.20E-01	1.41E-01	1.19E-01
0.116	0.11233	0.116698	1.10E-01	1.05E-01	1.16E-01	1.20E-01	1.15E-01
0.113	0.1083	0.097275	1.06E-01	1.01E-01	1.12E-01	1.01E-01	1.12E-01
0.115	0.10427	0.0797	1.02E-01	9.56E-02	1.08E-01	8.30E-02	1.08E-01
0.094	0.10024	0.063971	9.78E-02	8.94E-02	1.04E-01	6.73E-02	1.04E-01
0.431	0.372242	0.326704	3.70E-01	3.35E-01	3.64E-01	3.19E-01	3.69E-01
0.43	0.368674	0.330089	3.66E-01	3.33E-01	3.61E-01	3.22E-01	3.65E-01
0.43	0.365106	0.335321	3.63E-01	3.30E-01	3.57E-01	3.27E-01	3.61E-01
0.431	0.361537	0.3424	3.59E-01	3.26E-01	3.53E-01	3.34E-01	3.58E-01
0.427	0.357969	0.351324	3.56E-01	3.21E-01	3.50E-01	3.43E-01	3.54E-01
0.411	0.3544	0.362096	3.52E-01	3.15E-01	3.46E-01	3.54E-01	3.50E-01
0.352	0.344022	0.320659	3.42E-01	3.32E-01	3.36E-01	3.13E-01	3.40E-01
0.351	0.340396	0.320732	3.38E-01	3.30E-01	3.32E-01	3.13E-01	3.37E-01

0.348	0.33677	0.322651	3.34E-01	3.27E-01	3.29E-01	3.15E-01	3.33E-01
0.349	0.333144	0.326417	3.31E-01	3.23E-01	3.25E-01	3.18E-01	3.29E-01
0.351	0.329518	0.332029	3.27E-01	3.18E-01	3.21E-01	3.24E-01	3.25E-01
0.314	0.325892	0.339488	3.23E-01	3.12E-01	3.18E-01	3.31E-01	3.22E-01
0.261	0.315802	0.311358	3.13E-01	3.23E-01	3.08E-01	3.03E-01	3.12E-01
0.26	0.312118	0.308118	3.10E-01	3.21E-01	3.04E-01	3.00E-01	3.08E-01
0.259	0.308434	0.306725	3.06E-01	3.18E-01	3.00E-01	2.99E-01	3.05E-01
0.263	0.30475	0.307178	3.02E-01	3.14E-01	2.97E-01	2.99E-01	3.01E-01
0.265	0.301067	0.309478	2.99E-01	3.09E-01	2.93E-01	3.01E-01	2.97E-01
0.221	0.297383	0.313624	2.95E-01	3.02E-01	2.89E-01	3.05E-01	2.93E-01
0.192	0.259361	0.282987	2.57E-01	2.86E-01	2.51E-01	2.75E-01	2.55E-01
0.193	0.255562	0.273123	2.53E-01	2.84E-01	2.47E-01	2.65E-01	2.52E-01
0.192	0.251763	0.265104	2.49E-01	2.81E-01	2.44E-01	2.57E-01	2.48E-01
0.192	0.247964	0.258932	2.46E-01	2.76E-01	2.40E-01	2.51E-01	2.44E-01
0.191	0.244164	0.254607	2.42E-01	2.71E-01	2.36E-01	2.46E-01	2.40E-01
0.153	0.240365	0.252128	2.38E-01	2.65E-01	2.32E-01	2.44E-01	2.37E-01
0.149	0.20292	0.241592	2.01E-01	2.23E-01	1.95E-01	2.33E-01	1.99E-01
0.153	0.199006	0.225102	1.97E-01	2.21E-01	1.91E-01	2.17E-01	1.95E-01
0.151	0.195091	0.210458	1.93E-01	2.18E-01	1.87E-01	2.02E-01	1.91E-01
0.152	0.191177	0.197661	1.89E-01	2.14E-01	1.83E-01	1.90E-01	1.87E-01
0.153	0.187262	0.186711	1.85E-01	2.09E-01	1.79E-01	1.79E-01	1.84E-01
0.117	0.183348	0.177607	1.81E-01	2.03E-01	1.75E-01	1.69E-01	1.80E-01
0.118	0.14648	0.187171	1.44E-01	1.36E-01	1.38E-01	1.79E-01	1.42E-01
0.119	0.14245	0.164056	1.40E-01	1.34E-01	1.34E-01	1.56E-01	1.38E-01
0.121	0.13842	0.142788	1.36E-01	1.31E-01	1.30E-01	1.35E-01	1.34E-01
0.114	0.13439	0.123365	1.32E-01	1.27E-01	1.26E-01	1.15E-01	1.31E-01
0.111	0.13036	0.10579	1.28E-01	1.22E-01	1.22E-01	9.76E-02	1.27E-01
0.095	0.12633	0.090061	1.24E-01	1.15E-01	1.18E-01	8.19E-02	1.23E-01
0.167	0.232513	0.186975	2.39E-01	1.96E-01	2.42E-01	1.96E-01	2.32E-01
0.168	0.228945	0.19036	2.36E-01	1.94E-01	2.38E-01	2.00E-01	2.28E-01
0.168	0.225377	0.195592	2.32E-01	1.91E-01	2.35E-01	2.05E-01	2.25E-01
0.165	0.221808	0.20267	2.29E-01	1.87E-01	2.31E-01	2.12E-01	2.21E-01
0.163	0.21824	0.211595	2.25E-01	1.81E-01	2.28E-01	2.21E-01	2.17E-01
0.156	0.214671	0.222367	2.22E-01	1.75E-01	2.24E-01	2.32E-01	2.13E-01
0.148	0.204293	0.18093	2.11E-01	1.92E-01	2.14E-01	1.90E-01	2.04E-01
0.147	0.200667	0.181003	2.08E-01	1.91E-01	2.10E-01	1.90E-01	2.00E-01
0.151	0.197041	0.182922	2.04E-01	1.87E-01	2.06E-01	1.92E-01	1.96E-01
0.148	0.193415	0.186688	2.00E-01	1.83E-01	2.03E-01	1.96E-01	1.92E-01
0.149	0.189789	0.1923	1.97E-01	1.78E-01	1.99E-01	2.02E-01	1.89E-01
0.138	0.186163	0.199759	1.93E-01	1.72E-01	1.95E-01	2.09E-01	1.85E-01
0.121	0.176073	0.171629	1.83E-01	1.83E-01	1.85E-01	1.81E-01	1.75E-01
0.121	0.172389	0.168389	1.79E-01	1.81E-01	1.82E-01	1.78E-01	1.72E-01
0.119	0.168705	0.166996	1.76E-01	1.78E-01	1.78E-01	1.76E-01	1.68E-01
0.12	0.165021	0.167449	1.72E-01	1.74E-01	1.74E-01	1.77E-01	1.64E-01
0.118	0.161338	0.169749	1.68E-01	1.69E-01	1.71E-01	1.79E-01	1.60E-01
0.104	0.157654	0.173895	1.65E-01	1.63E-01	1.67E-01	1.83E-01	1.57E-01
0.093	0.119632	0.143258	1.27E-01	1.46E-01	1.29E-01	1.53E-01	1.19E-01
0.092	0.115833	0.133393	1.23E-01	1.44E-01	1.25E-01	1.43E-01	1.15E-01

0.091	0.112034	0.125375	1.19E-01	1.41E-01	1.21E-01	1.35E-01	1.11E-01
0.094	0.108235	0.119203	1.15E-01	1.37E-01	1.18E-01	1.29E-01	1.07E-01
0.091	0.104435	0.114878	1.11E-01	1.31E-01	1.14E-01	1.24E-01	1.04E-01
0.07	0.100636	0.112399	1.08E-01	1.25E-01	1.10E-01	1.22E-01	9.99E-02
0.075	0.063191	0.101863	7.01E-02	8.35E-02	7.25E-02	1.11E-01	6.20E-02
0.074	0.059277	0.085373	6.62E-02	8.15E-02	6.86E-02	9.47E-02	5.82E-02
0.073	0.055362	0.070729	6.23E-02	7.85E-02	6.47E-02	8.01E-02	5.44E-02
0.075	0.051448	0.057932	5.83E-02	7.44E-02	6.08E-02	6.73E-02	5.07E-02
0.074	0.047533	0.046982	5.44E-02	6.92E-02	5.69E-02	5.63E-02	4.69E-02
0.046	0.043619	0.037878	5.05E-02	6.29E-02	5.29E-02	4.72E-02	4.31E-02
0.042	0.006751	0.047442	1.36E-02	-3.72E-03	1.61E-02	5.68E-02	5.25E-03
0.044	0.002721	0.024327	9.61E-03	-5.68E-03	1.21E-02	3.37E-02	1.48E-03
0.046	-0.00131	0.003059	5.58E-03	-8.72E-03	8.02E-03	1.24E-02	-2.29E-03
0.044	-0.00534	-0.01636	1.55E-03	-1.28E-02	3.99E-03	-7.03E-03	-6.06E-03
0.049	-0.00937	-0.03394	-2.48E-03	-1.80E-02	-3.95E-05	-2.46E-02	-9.83E-03
0.03	-0.0134	-0.04967	-6.51E-03	-2.43E-02	-4.07E-03	-4.03E-02	-1.36E-02
0.231	0.258603	0.213065	2.65E-01	2.22E-01	2.56E-01	2.11E-01	2.59E-01
0.228	0.255035	0.21645	2.62E-01	2.20E-01	2.53E-01	2.14E-01	2.55E-01
0.228	0.251466	0.221682	2.58E-01	2.17E-01	2.49E-01	2.20E-01	2.52E-01
0.229	0.247898	0.22876	2.55E-01	2.13E-01	2.46E-01	2.27E-01	2.48E-01
0.231	0.24433	0.237685	2.51E-01	2.07E-01	2.42E-01	2.36E-01	2.44E-01
0.217	0.240761	0.248457	2.48E-01	2.01E-01	2.39E-01	2.46E-01	2.40E-01
0.201	0.230383	0.20702	2.37E-01	2.19E-01	2.28E-01	2.05E-01	2.31E-01
0.198	0.226757	0.207093	2.34E-01	2.17E-01	2.25E-01	2.05E-01	2.27E-01
0.204	0.223131	0.209012	2.30E-01	2.14E-01	2.21E-01	2.07E-01	2.23E-01
0.206	0.219505	0.212778	2.26E-01	2.09E-01	2.17E-01	2.11E-01	2.20E-01
0.195	0.215879	0.21839	2.23E-01	2.04E-01	2.14E-01	2.16E-01	2.16E-01
0.182	0.212252	0.225849	2.19E-01	1.98E-01	2.10E-01	2.24E-01	2.12E-01
0.165	0.202163	0.197719	2.09E-01	2.09E-01	2.00E-01	1.96E-01	2.03E-01
0.166	0.198479	0.194479	2.05E-01	2.07E-01	1.96E-01	1.92E-01	1.99E-01
0.168	0.194795	0.193086	2.02E-01	2.04E-01	1.93E-01	1.91E-01	1.95E-01
0.171	0.191111	0.193539	1.98E-01	2.00E-01	1.89E-01	1.91E-01	1.91E-01
0.17	0.187427	0.195839	1.94E-01	1.95E-01	1.85E-01	1.94E-01	1.87E-01
0.152	0.183744	0.199985	1.91E-01	1.89E-01	1.82E-01	1.98E-01	1.84E-01
0.139	0.145722	0.169348	1.53E-01	1.72E-01	1.44E-01	1.67E-01	1.46E-01
0.138	0.141923	0.159483	1.49E-01	1.70E-01	1.40E-01	1.57E-01	1.42E-01
0.135	0.138124	0.151465	1.45E-01	1.67E-01	1.36E-01	1.49E-01	1.38E-01
0.135	0.134324	0.145293	1.41E-01	1.63E-01	1.32E-01	1.43E-01	1.34E-01
0.136	0.130525	0.140968	1.37E-01	1.58E-01	1.28E-01	1.39E-01	1.31E-01
0.114	0.126726	0.138489	1.34E-01	1.51E-01	1.25E-01	1.36E-01	1.27E-01
0.123	0.089281	0.127953	9.62E-02	1.10E-01	8.71E-02	1.26E-01	8.91E-02
0.125	0.085367	0.111463	9.23E-02	1.08E-01	8.32E-02	1.09E-01	8.53E-02
0.124	0.081452	0.096819	8.83E-02	1.05E-01	7.93E-02	9.47E-02	8.15E-02
0.123	0.077538	0.084022	8.44E-02	1.00E-01	7.54E-02	8.19E-02	7.78E-02
0.123	0.073623	0.073072	8.05E-02	9.53E-02	7.15E-02	7.09E-02	7.40E-02
0.095	0.069709	0.063968	7.66E-02	8.90E-02	6.75E-02	6.18E-02	7.02E-02
0.087	0.032841	0.073532	3.97E-02	2.24E-02	3.07E-02	7.14E-02	3.23E-02
0.083	0.028811	0.050417	3.57E-02	2.04E-02	2.66E-02	4.83E-02	2.86E-02

0.075	0.024781	0.029148	3.17E-02	1.74E-02	2.26E-02	2.70E-02	2.48E-02
0.078	0.020751	0.009726	2.76E-02	1.33E-02	1.86E-02	7.56E-03	2.10E-02
0.076	0.016721	-0.00785	2.36E-02	8.08E-03	1.46E-02	-1.00E-02	1.73E-02
0.051	0.012691	-0.02358	1.96E-02	1.82E-03	1.05E-02	-2.57E-02	1.35E-02
0.328	0.310783	0.265245	3.18E-01	2.74E-01	3.15E-01	2.69E-01	3.13E-01
0.327	0.307215	0.26863	3.14E-01	2.72E-01	3.11E-01	2.73E-01	3.10E-01
0.325	0.303646	0.273862	3.11E-01	2.69E-01	3.08E-01	2.78E-01	3.06E-01
0.326	0.300078	0.28094	3.07E-01	2.65E-01	3.04E-01	2.85E-01	3.02E-01
0.329	0.296509	0.289865	3.03E-01	2.60E-01	3.01E-01	2.94E-01	2.98E-01
0.321	0.292941	0.300636	3.00E-01	2.53E-01	2.97E-01	3.05E-01	2.95E-01
0.295	0.282563	0.2592	2.89E-01	2.71E-01	2.87E-01	2.63E-01	2.85E-01
0.29	0.278937	0.259273	2.86E-01	2.69E-01	2.83E-01	2.63E-01	2.81E-01
0.292	0.275311	0.261192	2.82E-01	2.66E-01	2.79E-01	2.65E-01	2.78E-01
0.293	0.271685	0.264958	2.79E-01	2.62E-01	2.76E-01	2.69E-01	2.74E-01
0.285	0.268058	0.27057	2.75E-01	2.56E-01	2.72E-01	2.75E-01	2.70E-01
0.255	0.264432	0.278029	2.71E-01	2.50E-01	2.68E-01	2.82E-01	2.66E-01
0.212	0.254342	0.249899	2.61E-01	2.61E-01	2.58E-01	2.54E-01	2.57E-01
0.216	0.250659	0.246659	2.58E-01	2.59E-01	2.55E-01	2.51E-01	2.53E-01
0.217	0.246975	0.245266	2.54E-01	2.56E-01	2.51E-01	2.49E-01	2.49E-01
0.216	0.243291	0.245719	2.50E-01	2.52E-01	2.47E-01	2.50E-01	2.45E-01
0.214	0.239607	0.248019	2.47E-01	2.47E-01	2.44E-01	2.52E-01	2.42E-01
0.189	0.235924	0.252165	2.43E-01	2.41E-01	2.40E-01	2.56E-01	2.38E-01
0.153	0.197902	0.221528	2.05E-01	2.24E-01	2.02E-01	2.26E-01	2.00E-01
0.152	0.194103	0.211663	2.01E-01	2.22E-01	1.98E-01	2.16E-01	1.96E-01
0.149	0.190304	0.203645	1.97E-01	2.19E-01	1.94E-01	2.08E-01	1.92E-01
0.149	0.186504	0.197473	1.93E-01	2.15E-01	1.91E-01	2.02E-01	1.89E-01
0.151	0.182705	0.193148	1.90E-01	2.10E-01	1.87E-01	1.97E-01	1.85E-01
0.146	0.178906	0.190669	1.86E-01	2.04E-01	1.83E-01	1.95E-01	1.81E-01
0.117	0.141461	0.180133	1.48E-01	1.62E-01	1.45E-01	1.84E-01	1.43E-01
0.116	0.137547	0.163643	1.44E-01	1.60E-01	1.42E-01	1.68E-01	1.40E-01
0.116	0.133632	0.148999	1.41E-01	1.57E-01	1.38E-01	1.53E-01	1.36E-01
0.115	0.129718	0.136202	1.37E-01	1.53E-01	1.34E-01	1.40E-01	1.32E-01
0.114	0.125803	0.125251	1.33E-01	1.47E-01	1.30E-01	1.29E-01	1.28E-01
0.096	0.121889	0.116147	1.29E-01	1.41E-01	1.26E-01	1.20E-01	1.24E-01
0.089	0.08502	0.125712	9.19E-02	7.46E-02	8.91E-02	1.30E-01	8.66E-02
0.091	0.080991	0.102597	8.79E-02	7.26E-02	8.50E-02	1.07E-01	8.28E-02
0.079	0.076961	0.081328	8.39E-02	6.95E-02	8.10E-02	8.54E-02	7.90E-02
0.075	0.072931	0.061906	7.98E-02	6.54E-02	7.70E-02	6.59E-02	7.52E-02
0.073	0.068901	0.044331	7.58E-02	6.03E-02	7.29E-02	4.84E-02	7.15E-02
0.051	0.064871	0.028601	7.18E-02	5.40E-02	6.89E-02	3.26E-02	6.77E-02
0.226	0.248396	0.202858	2.55E-01	2.11E-01	2.51E-01	2.05E-01	2.49E-01
0.225	0.244828	0.206243	2.52E-01	2.10E-01	2.47E-01	2.08E-01	2.45E-01
0.227	0.24126	0.211475	2.48E-01	2.06E-01	2.43E-01	2.14E-01	2.41E-01
0.225	0.237691	0.218553	2.45E-01	2.02E-01	2.40E-01	2.21E-01	2.37E-01
0.226	0.234123	0.227478	2.41E-01	1.97E-01	2.36E-01	2.30E-01	2.34E-01
0.215	0.230554	0.23825	2.37E-01	1.91E-01	2.33E-01	2.40E-01	2.30E-01
0.195	0.220176	0.196813	2.27E-01	2.08E-01	2.22E-01	1.99E-01	2.20E-01
0.197	0.21655	0.196886	2.23E-01	2.06E-01	2.19E-01	1.99E-01	2.17E-01

0.195	0.212924	0.198805	2.20E-01	2.03E-01	2.15E-01	2.01E-01	2.13E-01
0.196	0.209298	0.202571	2.16E-01	1.99E-01	2.11E-01	2.05E-01	2.09E-01
0.195	0.205672	0.208183	2.13E-01	1.94E-01	2.08E-01	2.10E-01	2.05E-01
0.185	0.202045	0.215642	2.09E-01	1.88E-01	2.04E-01	2.18E-01	2.02E-01
0.181	0.191956	0.187512	1.99E-01	1.99E-01	1.94E-01	1.90E-01	1.92E-01
0.181	0.188272	0.184272	1.95E-01	1.97E-01	1.90E-01	1.86E-01	1.88E-01
0.182	0.184588	0.182879	1.91E-01	1.94E-01	1.87E-01	1.85E-01	1.84E-01
0.181	0.180904	0.183332	1.88E-01	1.90E-01	1.83E-01	1.85E-01	1.81E-01
0.185	0.177221	0.185632	1.84E-01	1.85E-01	1.79E-01	1.88E-01	1.77E-01
0.161	0.173537	0.189778	1.80E-01	1.78E-01	1.76E-01	1.92E-01	1.73E-01
0.126	0.135515	0.159141	1.42E-01	1.62E-01	1.38E-01	1.61E-01	1.35E-01
0.127	0.131716	0.149276	1.39E-01	1.60E-01	1.34E-01	1.51E-01	1.32E-01
0.128	0.127917	0.141258	1.35E-01	1.57E-01	1.30E-01	1.43E-01	1.28E-01
0.129	0.124118	0.135086	1.31E-01	1.53E-01	1.26E-01	1.37E-01	1.24E-01
0.125	0.120318	0.130761	1.27E-01	1.47E-01	1.22E-01	1.33E-01	1.20E-01
0.109	0.116519	0.128282	1.23E-01	1.41E-01	1.19E-01	1.30E-01	1.16E-01
0.111	0.079074	0.117746	8.60E-02	9.94E-02	8.12E-02	1.20E-01	7.86E-02
0.112	0.07516	0.101256	8.21E-02	9.74E-02	7.73E-02	1.03E-01	7.48E-02
0.109	0.071245	0.086612	7.81E-02	9.44E-02	7.34E-02	8.87E-02	7.10E-02
0.108	0.067331	0.073815	7.42E-02	9.03E-02	6.95E-02	7.59E-02	6.73E-02
0.107	0.063416	0.062865	7.03E-02	8.51E-02	6.55E-02	6.50E-02	6.35E-02
0.081	0.059502	0.053761	6.64E-02	7.88E-02	6.16E-02	5.59E-02	5.97E-02
0.081	0.022634	0.063325	2.95E-02	1.22E-02	2.48E-02	6.55E-02	2.19E-02
0.082	0.018604	0.04021	2.55E-02	1.02E-02	2.07E-02	4.23E-02	1.81E-02
0.079	0.014574	0.018941	2.15E-02	7.16E-03	1.67E-02	2.11E-02	1.43E-02
0.075	0.010544	-0.00048	1.74E-02	3.05E-03	1.27E-02	1.65E-03	1.05E-02
0.069	0.006514	-0.01806	1.34E-02	-2.13E-03	8.65E-03	-1.59E-02	6.77E-03
0.051	0.002484	-0.03379	9.38E-03	-8.38E-03	4.62E-03	-3.17E-02	3.00E-03
0.32	0.274486	0.228948	2.81E-01	2.38E-01	2.65E-01	2.20E-01	2.74E-01
0.319	0.270918	0.232333	2.78E-01	2.36E-01	2.62E-01	2.23E-01	2.71E-01
0.315	0.267349	0.237565	2.74E-01	2.33E-01	2.58E-01	2.28E-01	2.67E-01
0.318	0.263781	0.244643	2.71E-01	2.28E-01	2.54E-01	2.35E-01	2.63E-01
0.321	0.260213	0.253568	2.67E-01	2.23E-01	2.51E-01	2.44E-01	2.59E-01
0.299	0.256644	0.26434	2.64E-01	2.17E-01	2.47E-01	2.55E-01	2.56E-01
0.263	0.246266	0.222903	2.53E-01	2.34E-01	2.37E-01	2.14E-01	2.46E-01
0.262	0.24264	0.222976	2.50E-01	2.33E-01	2.33E-01	2.14E-01	2.42E-01
0.263	0.239014	0.224895	2.46E-01	2.29E-01	2.30E-01	2.16E-01	2.39E-01
0.265	0.235388	0.228661	2.42E-01	2.25E-01	2.26E-01	2.19E-01	2.35E-01
0.267	0.231762	0.234273	2.39E-01	2.20E-01	2.22E-01	2.25E-01	2.31E-01
0.239	0.228135	0.241732	2.35E-01	2.14E-01	2.19E-01	2.32E-01	2.27E-01
0.222	0.218046	0.213602	2.25E-01	2.25E-01	2.09E-01	2.04E-01	2.18E-01
0.221	0.214362	0.210362	2.21E-01	2.23E-01	2.05E-01	2.01E-01	2.14E-01
0.223	0.210678	0.208969	2.18E-01	2.20E-01	2.01E-01	2.00E-01	2.10E-01
0.221	0.206994	0.209422	2.14E-01	2.16E-01	1.98E-01	2.00E-01	2.06E-01
0.215	0.20331	0.211722	2.10E-01	2.11E-01	1.94E-01	2.02E-01	2.03E-01
0.201	0.199627	0.215868	2.07E-01	2.05E-01	1.90E-01	2.07E-01	1.99E-01
0.165	0.161605	0.185231	1.69E-01	1.88E-01	1.52E-01	1.76E-01	1.61E-01
0.161	0.157806	0.175366	1.65E-01	1.86E-01	1.48E-01	1.66E-01	1.57E-01

0.159	0.154007	0.167348	1.61E-01	1.83E-01	1.45E-01	1.58E-01	1.53E-01
0.155	0.150207	0.161176	1.57E-01	1.79E-01	1.41E-01	1.52E-01	1.50E-01
0.151	0.146408	0.156851	1.53E-01	1.73E-01	1.37E-01	1.47E-01	1.46E-01
0.144	0.142609	0.154372	1.50E-01	1.67E-01	1.33E-01	1.45E-01	1.42E-01
0.121	0.105164	0.143836	1.12E-01	1.25E-01	9.58E-02	1.34E-01	1.04E-01
0.122	0.10125	0.127346	1.08E-01	1.23E-01	9.19E-02	1.18E-01	1.00E-01
0.121	0.097335	0.112702	1.04E-01	1.20E-01	8.80E-02	1.03E-01	9.67E-02
0.119	0.093421	0.099905	1.00E-01	1.16E-01	8.41E-02	9.05E-02	9.29E-02
0.118	0.089506	0.088955	9.64E-02	1.11E-01	8.01E-02	7.96E-02	8.91E-02
0.101	0.085592	0.079851	9.25E-02	1.05E-01	7.62E-02	7.05E-02	8.54E-02
0.088	0.048724	0.089415	5.56E-02	3.83E-02	3.94E-02	8.01E-02	4.75E-02
0.078	0.044694	0.0663	5.16E-02	3.63E-02	3.53E-02	5.69E-02	4.37E-02
0.079	0.040664	0.045031	4.76E-02	3.33E-02	3.13E-02	3.57E-02	4.00E-02
0.085	0.036634	0.025609	4.35E-02	2.91E-02	2.73E-02	1.62E-02	3.62E-02
0.081	0.032604	0.008034	3.95E-02	2.40E-02	2.32E-02	-1.33E-03	3.24E-02
0.059	0.028574	-0.0077	3.55E-02	1.77E-02	1.92E-02	-1.71E-02	2.86E-02
0.419	0.326666	0.281128	3.34E-01	2.90E-01	3.24E-01	2.78E-01	3.26E-01
0.418	0.323098	0.284513	3.30E-01	2.88E-01	3.20E-01	2.81E-01	3.22E-01
0.42	0.319529	0.289745	3.26E-01	2.85E-01	3.16E-01	2.87E-01	3.18E-01
0.418	0.315961	0.296823	3.23E-01	2.81E-01	3.13E-01	2.94E-01	3.14E-01
0.417	0.312392	0.305748	3.19E-01	2.75E-01	3.09E-01	3.03E-01	3.11E-01
0.401	0.308824	0.316519	3.16E-01	2.69E-01	3.06E-01	3.13E-01	3.07E-01
0.339	0.298446	0.275083	3.05E-01	2.87E-01	2.95E-01	2.72E-01	2.97E-01
0.335	0.29482	0.275156	3.02E-01	2.85E-01	2.92E-01	2.72E-01	2.94E-01
0.331	0.291194	0.277075	2.98E-01	2.82E-01	2.88E-01	2.74E-01	2.90E-01
0.329	0.287567	0.280841	2.94E-01	2.78E-01	2.84E-01	2.78E-01	2.86E-01
0.325	0.283941	0.286453	2.91E-01	2.72E-01	2.81E-01	2.83E-01	2.82E-01
0.301	0.280315	0.293912	2.87E-01	2.66E-01	2.77E-01	2.91E-01	2.78E-01
0.267	0.270225	0.265782	2.77E-01	2.77E-01	2.67E-01	2.63E-01	2.69E-01
0.271	0.266542	0.262542	2.73E-01	2.75E-01	2.63E-01	2.59E-01	2.65E-01
0.268	0.262858	0.261149	2.70E-01	2.72E-01	2.60E-01	2.58E-01	2.61E-01
0.269	0.259174	0.261602	2.66E-01	2.68E-01	2.56E-01	2.58E-01	2.58E-01
0.265	0.25549	0.263902	2.62E-01	2.63E-01	2.52E-01	2.61E-01	2.54E-01
0.239	0.251807	0.268048	2.59E-01	2.57E-01	2.49E-01	2.65E-01	2.50E-01
0.159	0.213785	0.237411	2.21E-01	2.40E-01	2.11E-01	2.34E-01	2.12E-01
0.158	0.209986	0.227546	2.17E-01	2.38E-01	2.07E-01	2.24E-01	2.08E-01
0.155	0.206186	0.219528	2.13E-01	2.35E-01	2.03E-01	2.16E-01	2.05E-01
0.156	0.202387	0.213356	2.09E-01	2.31E-01	1.99E-01	2.10E-01	2.01E-01
0.158	0.198588	0.20903	2.05E-01	2.26E-01	1.95E-01	2.06E-01	1.97E-01
0.138	0.194789	0.206552	2.02E-01	2.19E-01	1.92E-01	2.03E-01	1.93E-01
0.118	0.157344	0.196016	1.64E-01	1.78E-01	1.54E-01	1.93E-01	1.56E-01
0.114	0.15343	0.179526	1.60E-01	1.76E-01	1.50E-01	1.76E-01	1.52E-01
0.115	0.149515	0.164882	1.56E-01	1.73E-01	1.46E-01	1.62E-01	1.48E-01
0.113	0.145601	0.152085	1.53E-01	1.69E-01	1.42E-01	1.49E-01	1.44E-01
0.109	0.141686	0.141134	1.49E-01	1.63E-01	1.39E-01	1.38E-01	1.40E-01
0.098	0.137772	0.13203	1.45E-01	1.57E-01	1.35E-01	1.29E-01	1.37E-01
0.085	0.100903	0.141595	1.08E-01	9.04E-02	9.77E-02	1.38E-01	9.88E-02
0.079	0.096874	0.11848	1.04E-01	8.85E-02	9.37E-02	1.15E-01	9.50E-02

0.078	0.092844	0.097211	9.97E-02	8.54E-02	8.97E-02	9.40E-02	9.13E-02
0.075	0.088814	0.077789	9.57E-02	8.13E-02	8.56E-02	7.46E-02	8.75E-02
0.076	0.084784	0.060214	9.17E-02	7.61E-02	8.16E-02	5.70E-02	8.37E-02
0.059	0.080754	0.044484	8.77E-02	6.99E-02	7.76E-02	4.13E-02	7.99E-02
0.412	0.321193	0.275655	3.28E-01	2.84E-01	3.25E-01	2.79E-01	3.25E-01
0.411	0.317625	0.27904	3.25E-01	2.82E-01	3.21E-01	2.82E-01	3.21E-01
0.411	0.314056	0.284272	3.21E-01	2.79E-01	3.17E-01	2.88E-01	3.17E-01
0.408	0.310488	0.29135	3.17E-01	2.75E-01	3.14E-01	2.95E-01	3.14E-01
0.409	0.30692	0.300275	3.14E-01	2.70E-01	3.10E-01	3.04E-01	3.10E-01
0.395	0.303351	0.311047	3.10E-01	2.64E-01	3.07E-01	3.14E-01	3.06E-01
0.305	0.292973	0.26961	3.00E-01	2.81E-01	2.96E-01	2.73E-01	2.97E-01
0.307	0.289347	0.269683	2.96E-01	2.79E-01	2.93E-01	2.73E-01	2.93E-01
0.306	0.285721	0.271602	2.93E-01	2.76E-01	2.89E-01	2.75E-01	2.89E-01
0.304	0.282095	0.275368	2.89E-01	2.72E-01	2.85E-01	2.79E-01	2.85E-01
0.303	0.278469	0.28098	2.85E-01	2.67E-01	2.82E-01	2.84E-01	2.81E-01
0.271	0.274842	0.288439	2.82E-01	2.61E-01	2.78E-01	2.92E-01	2.78E-01
0.241	0.264753	0.260309	2.72E-01	2.72E-01	2.68E-01	2.64E-01	2.68E-01
0.239	0.261069	0.257069	2.68E-01	2.70E-01	2.64E-01	2.60E-01	2.64E-01
0.236	0.257385	0.255676	2.64E-01	2.67E-01	2.61E-01	2.59E-01	2.61E-01
0.239	0.253701	0.256129	2.61E-01	2.63E-01	2.57E-01	2.59E-01	2.57E-01
0.238	0.250017	0.258429	2.57E-01	2.58E-01	2.53E-01	2.62E-01	2.53E-01
0.205	0.246334	0.262575	2.53E-01	2.51E-01	2.50E-01	2.66E-01	2.49E-01
0.161	0.208312	0.231938	2.15E-01	2.34E-01	2.12E-01	2.35E-01	2.11E-01
0.159	0.204513	0.222073	2.11E-01	2.32E-01	2.08E-01	2.25E-01	2.08E-01
0.163	0.200714	0.214055	2.08E-01	2.29E-01	2.04E-01	2.17E-01	2.04E-01
0.162	0.196914	0.207883	2.04E-01	2.25E-01	2.00E-01	2.11E-01	2.00E-01
0.161	0.193115	0.203558	2.00E-01	2.20E-01	1.96E-01	2.07E-01	1.96E-01
0.135	0.189316	0.201079	1.96E-01	2.14E-01	1.93E-01	2.04E-01	1.93E-01
0.125	0.151871	0.190543	1.59E-01	1.72E-01	1.55E-01	1.94E-01	1.55E-01
0.126	0.147957	0.174053	1.55E-01	1.70E-01	1.51E-01	1.77E-01	1.51E-01
0.125	0.144042	0.159409	1.51E-01	1.67E-01	1.47E-01	1.63E-01	1.47E-01
0.127	0.140128	0.146612	1.47E-01	1.63E-01	1.43E-01	1.50E-01	1.43E-01
0.127	0.136213	0.135662	1.43E-01	1.58E-01	1.40E-01	1.39E-01	1.40E-01
0.101	0.132299	0.126558	1.39E-01	1.52E-01	1.36E-01	1.30E-01	1.36E-01
0.091	0.095431	0.136122	1.02E-01	8.50E-02	9.88E-02	1.39E-01	9.80E-02
0.085	0.091401	0.113007	9.83E-02	8.30E-02	9.48E-02	1.16E-01	9.42E-02
0.086	0.087371	0.091738	9.43E-02	8.00E-02	9.07E-02	9.51E-02	9.04E-02
0.088	0.083341	0.072316	9.03E-02	7.58E-02	8.67E-02	7.57E-02	8.66E-02
0.087	0.079311	0.054741	8.62E-02	7.07E-02	8.27E-02	5.81E-02	8.29E-02
0.066	0.075281	0.039012	8.22E-02	6.44E-02	7.86E-02	4.24E-02	7.91E-02
0.432	0.347283	0.301745	3.54E-01	3.10E-01	3.39E-01	2.94E-01	3.44E-01
0.435	0.343715	0.30513	3.51E-01	3.08E-01	3.36E-01	2.97E-01	3.40E-01
0.431	0.340146	0.310362	3.47E-01	3.05E-01	3.32E-01	3.02E-01	3.36E-01
0.431	0.336578	0.31744	3.44E-01	3.01E-01	3.28E-01	3.09E-01	3.33E-01
0.429	0.33301	0.326365	3.40E-01	2.96E-01	3.25E-01	3.18E-01	3.29E-01
0.411	0.329441	0.337137	3.36E-01	2.90E-01	3.21E-01	3.29E-01	3.25E-01
0.345	0.319063	0.2957	3.26E-01	3.07E-01	3.11E-01	2.88E-01	3.15E-01
0.344	0.315437	0.295773	3.22E-01	3.05E-01	3.07E-01	2.88E-01	3.12E-01

0.339	0.311811	0.297692	3.19E-01	3.02E-01	3.04E-01	2.90E-01	3.08E-01
0.341	0.308185	0.301458	3.15E-01	2.98E-01	3.00E-01	2.93E-01	3.04E-01
0.336	0.304558	0.30707	3.11E-01	2.93E-01	2.96E-01	2.99E-01	3.00E-01
0.307	0.300932	0.314529	3.08E-01	2.87E-01	2.93E-01	3.06E-01	2.97E-01
0.244	0.290843	0.286399	2.98E-01	2.98E-01	2.83E-01	2.78E-01	2.87E-01
0.246	0.287159	0.283159	2.94E-01	2.96E-01	2.79E-01	2.75E-01	2.83E-01
0.244	0.283475	0.281766	2.90E-01	2.93E-01	2.75E-01	2.74E-01	2.80E-01
0.246	0.279791	0.282219	2.87E-01	2.89E-01	2.72E-01	2.74E-01	2.76E-01
0.245	0.276107	0.284519	2.83E-01	2.84E-01	2.68E-01	2.76E-01	2.72E-01
0.221	0.272424	0.288665	2.79E-01	2.77E-01	2.64E-01	2.81E-01	2.68E-01
0.169	0.234402	0.258028	2.41E-01	2.61E-01	2.26E-01	2.50E-01	2.30E-01
0.168	0.230603	0.248163	2.38E-01	2.59E-01	2.22E-01	2.40E-01	2.27E-01
0.161	0.226804	0.240145	2.34E-01	2.56E-01	2.19E-01	2.32E-01	2.23E-01
0.158	0.223004	0.233973	2.30E-01	2.51E-01	2.15E-01	2.26E-01	2.19E-01
0.162	0.219205	0.229648	2.26E-01	2.46E-01	2.11E-01	2.22E-01	2.15E-01
0.138	0.215406	0.227169	2.22E-01	2.40E-01	2.07E-01	2.19E-01	2.12E-01
0.121	0.177961	0.216633	1.85E-01	1.98E-01	1.70E-01	2.08E-01	1.74E-01
0.118	0.174047	0.200143	1.81E-01	1.96E-01	1.66E-01	1.92E-01	1.70E-01
0.118	0.170132	0.185499	1.77E-01	1.93E-01	1.62E-01	1.77E-01	1.66E-01
0.116	0.166218	0.172702	1.73E-01	1.89E-01	1.58E-01	1.65E-01	1.62E-01
0.114	0.162303	0.161751	1.69E-01	1.84E-01	1.54E-01	1.54E-01	1.59E-01
0.095	0.158389	0.152647	1.65E-01	1.78E-01	1.50E-01	1.45E-01	1.55E-01
0.098	0.12152	0.162212	1.28E-01	1.11E-01	1.13E-01	1.54E-01	1.17E-01
0.085	0.117491	0.139097	1.24E-01	1.09E-01	1.09E-01	1.31E-01	1.13E-01
0.079	0.113461	0.117828	1.20E-01	1.06E-01	1.05E-01	1.10E-01	1.09E-01
0.081	0.109431	0.098406	1.16E-01	1.02E-01	1.01E-01	9.03E-02	1.06E-01
0.083	0.105401	0.080831	1.12E-01	9.68E-02	9.73E-02	7.27E-02	1.02E-01
0.044	0.101371	0.065101	1.08E-01	9.05E-02	9.32E-02	5.70E-02	9.81E-02
0.159	0.215874	0.170336	2.12E-01	1.79E-01	2.25E-01	1.80E-01	2.16E-01
0.158	0.212305	0.173721	2.08E-01	1.77E-01	2.22E-01	1.83E-01	2.12E-01
0.156	0.208737	0.178953	2.04E-01	1.74E-01	2.18E-01	1.88E-01	2.08E-01
0.157	0.205169	0.186031	2.01E-01	1.70E-01	2.15E-01	1.95E-01	2.04E-01
0.155	0.2016	0.194956	1.97E-01	1.65E-01	2.11E-01	2.04E-01	2.00E-01
0.141	0.198032	0.205727	1.94E-01	1.58E-01	2.07E-01	2.15E-01	1.97E-01
0.118	0.187654	0.164291	1.83E-01	1.76E-01	1.97E-01	1.74E-01	1.87E-01
0.119	0.184027	0.164363	1.80E-01	1.74E-01	1.93E-01	1.74E-01	1.83E-01
0.117	0.180401	0.166283	1.76E-01	1.71E-01	1.90E-01	1.76E-01	1.80E-01
0.121	0.176775	0.170048	1.73E-01	1.67E-01	1.86E-01	1.79E-01	1.76E-01
0.114	0.173149	0.175661	1.69E-01	1.62E-01	1.82E-01	1.85E-01	1.72E-01
0.096	0.169523	0.18312	1.65E-01	1.55E-01	1.79E-01	1.92E-01	1.68E-01
0.099	0.159433	0.15499	1.55E-01	1.67E-01	1.69E-01	1.64E-01	1.59E-01
0.093	0.155749	0.15175	1.52E-01	1.65E-01	1.65E-01	1.61E-01	1.55E-01
0.095	0.152066	0.150357	1.48E-01	1.62E-01	1.61E-01	1.60E-01	1.51E-01
0.091	0.148382	0.15081	1.44E-01	1.57E-01	1.58E-01	1.60E-01	1.47E-01
0.088	0.144698	0.153109	1.40E-01	1.52E-01	1.54E-01	1.62E-01	1.44E-01
0.061	0.141014	0.157256	1.37E-01	1.46E-01	1.50E-01	1.67E-01	1.40E-01
0.066	0.102993	0.126619	9.87E-02	1.29E-01	1.12E-01	1.36E-01	1.02E-01
0.065	0.099193	0.116754	9.49E-02	1.27E-01	1.09E-01	1.26E-01	9.83E-02

0.064	0.095394	0.108736	9.11E-02	1.24E-01	1.05E-01	1.18E-01	9.45E-02
0.065	0.091595	0.102564	8.73E-02	1.20E-01	1.01E-01	1.12E-01	9.08E-02
0.061	0.087796	0.098238	8.36E-02	1.15E-01	9.71E-02	1.08E-01	8.70E-02
0.038	0.083997	0.095759	7.98E-02	1.09E-01	9.33E-02	1.05E-01	8.32E-02
0.045	0.046552	0.085223	4.23E-02	6.69E-02	5.59E-02	9.46E-02	4.53E-02
0.044	0.042637	0.068733	3.84E-02	6.49E-02	5.20E-02	7.81E-02	4.16E-02
0.043	0.038723	0.05409	3.45E-02	6.18E-02	4.81E-02	6.34E-02	3.78E-02
0.044	0.034808	0.041293	3.06E-02	5.77E-02	4.41E-02	5.06E-02	3.40E-02
0.047	0.030894	0.030342	2.66E-02	5.26E-02	4.02E-02	3.97E-02	3.03E-02
0.021	0.026979	0.021238	2.27E-02	4.63E-02	3.63E-02	3.06E-02	2.65E-02
0.019	-0.00989	0.030803	-1.41E-02	-2.04E-02	-5.54E-04	4.01E-02	-1.14E-02
0.021	-0.01392	0.007688	-1.82E-02	-2.23E-02	-4.58E-03	1.70E-02	-1.52E-02
0.018	-0.01795	-0.01358	-2.22E-02	-2.54E-02	-8.61E-03	-4.25E-03	-1.89E-02
0.022	-0.02198	-0.033	-2.62E-02	-2.95E-02	-1.26E-02	-2.37E-02	-2.27E-02
0.021	-0.02601	-0.05058	-3.03E-02	-3.47E-02	-1.67E-02	-4.12E-02	-2.65E-02
0.003	-0.03004	-0.06631	-3.43E-02	-4.09E-02	-2.07E-02	-5.70E-02	-3.02E-02
0.222	0.241964	0.196426	2.38E-01	2.05E-01	2.40E-01	1.94E-01	2.43E-01
0.223	0.238395	0.199811	2.34E-01	2.03E-01	2.36E-01	1.98E-01	2.39E-01
0.221	0.234827	0.205043	2.31E-01	2.00E-01	2.33E-01	2.03E-01	2.35E-01
0.219	0.231259	0.212121	2.27E-01	1.96E-01	2.29E-01	2.10E-01	2.31E-01
0.217	0.22769	0.221046	2.23E-01	1.91E-01	2.26E-01	2.19E-01	2.28E-01
0.206	0.224122	0.231817	2.20E-01	1.85E-01	2.22E-01	2.30E-01	2.24E-01
0.178	0.213743	0.190381	2.09E-01	2.02E-01	2.12E-01	1.88E-01	2.14E-01
0.185	0.210117	0.190453	2.06E-01	2.00E-01	2.08E-01	1.88E-01	2.10E-01
0.186	0.206491	0.192373	2.02E-01	1.97E-01	2.04E-01	1.90E-01	2.07E-01
0.185	0.202865	0.196138	1.99E-01	1.93E-01	2.01E-01	1.94E-01	2.03E-01
0.179	0.199239	0.201751	1.95E-01	1.88E-01	1.97E-01	2.00E-01	1.99E-01
0.165	0.195613	0.209209	1.91E-01	1.81E-01	1.93E-01	2.07E-01	1.95E-01
0.133	0.185523	0.18108	1.81E-01	1.93E-01	1.83E-01	1.79E-01	1.86E-01
0.132	0.181839	0.17784	1.78E-01	1.91E-01	1.80E-01	1.76E-01	1.82E-01
0.131	0.178156	0.176446	1.74E-01	1.88E-01	1.76E-01	1.74E-01	1.78E-01
0.129	0.174472	0.1769	1.70E-01	1.83E-01	1.72E-01	1.75E-01	1.75E-01
0.128	0.170788	0.179199	1.67E-01	1.78E-01	1.69E-01	1.77E-01	1.71E-01
0.106	0.167104	0.183346	1.63E-01	1.72E-01	1.65E-01	1.81E-01	1.67E-01
0.107	0.129082	0.152709	1.25E-01	1.55E-01	1.27E-01	1.51E-01	1.29E-01
0.108	0.125283	0.142844	1.21E-01	1.53E-01	1.23E-01	1.41E-01	1.25E-01
0.111	0.121484	0.134825	1.17E-01	1.50E-01	1.19E-01	1.33E-01	1.22E-01
0.105	0.117685	0.128654	1.13E-01	1.46E-01	1.16E-01	1.26E-01	1.18E-01
0.101	0.113886	0.124328	1.10E-01	1.41E-01	1.12E-01	1.22E-01	1.14E-01
0.084	0.110087	0.121849	1.06E-01	1.35E-01	1.08E-01	1.20E-01	1.10E-01
0.086	0.072642	0.111313	6.84E-02	9.29E-02	7.05E-02	1.09E-01	7.24E-02
0.087	0.068727	0.094823	6.45E-02	9.10E-02	6.66E-02	9.27E-02	6.87E-02
0.079	0.064813	0.08018	6.06E-02	8.79E-02	6.27E-02	7.80E-02	6.49E-02
0.075	0.060898	0.067383	5.67E-02	8.38E-02	5.87E-02	6.52E-02	6.11E-02
0.077	0.056984	0.056432	5.27E-02	7.86E-02	5.48E-02	5.43E-02	5.74E-02
0.053	0.053069	0.047328	4.88E-02	7.24E-02	5.09E-02	4.52E-02	5.36E-02
0.035	0.016201	0.056893	1.20E-02	5.73E-03	1.40E-02	5.47E-02	1.57E-02
0.036	0.012171	0.033778	7.93E-03	3.77E-03	1.00E-02	3.16E-02	1.19E-02

0.033	0.008141	0.012509	3.90E-03	7.30E-04	5.98E-03	1.03E-02	8.17E-03
0.029	0.004111	-0.00691	-1.33E-04	-3.38E-03	1.95E-03	-9.07E-03	4.40E-03
0.021	8.16E-05	-0.02449	-4.16E-03	-8.56E-03	-2.08E-03	-2.66E-02	6.29E-04
0.007	-0.00395	-0.04022	-8.19E-03	-1.48E-02	-6.11E-03	-4.24E-02	-3.14E-03
0.31	0.294144	0.248605	2.90E-01	2.57E-01	2.98E-01	2.53E-01	2.97E-01
0.316	0.290575	0.251991	2.86E-01	2.55E-01	2.95E-01	2.56E-01	2.93E-01
0.317	0.287007	0.257222	2.83E-01	2.52E-01	2.91E-01	2.61E-01	2.89E-01
0.318	0.283438	0.264301	2.79E-01	2.48E-01	2.87E-01	2.68E-01	2.86E-01
0.314	0.27987	0.273226	2.76E-01	2.43E-01	2.84E-01	2.77E-01	2.82E-01
0.299	0.276302	0.283997	2.72E-01	2.37E-01	2.80E-01	2.88E-01	2.78E-01
0.289	0.265923	0.242561	2.62E-01	2.54E-01	2.70E-01	2.47E-01	2.68E-01
0.287	0.262297	0.242633	2.58E-01	2.52E-01	2.66E-01	2.47E-01	2.65E-01
0.285	0.258671	0.244553	2.54E-01	2.49E-01	2.63E-01	2.49E-01	2.61E-01
0.286	0.255045	0.248318	2.51E-01	2.45E-01	2.59E-01	2.52E-01	2.57E-01
0.275	0.251419	0.253931	2.47E-01	2.40E-01	2.55E-01	2.58E-01	2.53E-01
0.251	0.247793	0.261389	2.44E-01	2.34E-01	2.52E-01	2.65E-01	2.50E-01
0.176	0.237703	0.233259	2.33E-01	2.45E-01	2.42E-01	2.37E-01	2.40E-01
0.177	0.234019	0.23002	2.30E-01	2.43E-01	2.38E-01	2.34E-01	2.36E-01
0.169	0.230335	0.228626	2.26E-01	2.40E-01	2.34E-01	2.33E-01	2.33E-01
0.174	0.226652	0.22908	2.22E-01	2.36E-01	2.31E-01	2.33E-01	2.29E-01
0.168	0.222968	0.231379	2.19E-01	2.30E-01	2.27E-01	2.35E-01	2.25E-01
0.145	0.219284	0.235526	2.15E-01	2.24E-01	2.23E-01	2.40E-01	2.21E-01
0.127	0.181262	0.204889	1.77E-01	2.07E-01	1.85E-01	2.09E-01	1.83E-01
0.126	0.177463	0.195024	1.73E-01	2.05E-01	1.81E-01	1.99E-01	1.80E-01
0.124	0.173664	0.187005	1.69E-01	2.02E-01	1.78E-01	1.91E-01	1.76E-01
0.123	0.169865	0.180833	1.66E-01	1.98E-01	1.74E-01	1.85E-01	1.72E-01
0.121	0.166066	0.176508	1.62E-01	1.93E-01	1.70E-01	1.81E-01	1.68E-01
0.103	0.162267	0.174029	1.58E-01	1.87E-01	1.66E-01	1.78E-01	1.65E-01
0.088	0.124822	0.163493	1.21E-01	1.45E-01	1.29E-01	1.68E-01	1.27E-01
0.085	0.120907	0.147003	1.17E-01	1.43E-01	1.25E-01	1.51E-01	1.23E-01
0.083	0.116993	0.13236	1.13E-01	1.40E-01	1.21E-01	1.36E-01	1.19E-01
0.081	0.113078	0.119562	1.09E-01	1.36E-01	1.17E-01	1.24E-01	1.15E-01
0.076	0.109164	0.108612	1.05E-01	1.31E-01	1.13E-01	1.13E-01	1.12E-01
0.054	0.105249	0.099508	1.01E-01	1.25E-01	1.09E-01	1.04E-01	1.08E-01
0.04	0.068381	0.109073	6.41E-02	5.79E-02	7.24E-02	1.13E-01	6.99E-02
0.039	0.064351	0.085958	6.01E-02	5.59E-02	6.84E-02	9.00E-02	6.61E-02
0.036	0.060321	0.064689	5.61E-02	5.29E-02	6.44E-02	6.87E-02	6.24E-02
0.035	0.056291	0.045267	5.20E-02	4.88E-02	6.03E-02	4.93E-02	5.86E-02
0.031	0.052261	0.027691	4.80E-02	4.36E-02	5.63E-02	3.17E-02	5.48E-02
0.017	0.048232	0.011962	4.40E-02	3.74E-02	5.23E-02	1.60E-02	5.11E-02
0.229	0.231757	0.186219	2.28E-01	1.95E-01	2.34E-01	1.88E-01	2.32E-01
0.228	0.228188	0.189604	2.24E-01	1.93E-01	2.30E-01	1.92E-01	2.28E-01
0.231	0.22462	0.194836	2.20E-01	1.90E-01	2.27E-01	1.97E-01	2.25E-01
0.225	0.221052	0.201914	2.17E-01	1.86E-01	2.23E-01	2.04E-01	2.21E-01
0.224	0.217483	0.210839	2.13E-01	1.81E-01	2.20E-01	2.13E-01	2.17E-01
0.227	0.213915	0.22161	2.10E-01	1.74E-01	2.16E-01	2.24E-01	2.13E-01
0.183	0.203537	0.180174	1.99E-01	1.92E-01	2.06E-01	1.82E-01	2.04E-01
0.184	0.19991	0.180246	1.96E-01	1.90E-01	2.02E-01	1.82E-01	2.00E-01

0.186	0.196284	0.182166	1.92E-01	1.87E-01	1.98E-01	1.84E-01	1.96E-01
0.183	0.192658	0.185931	1.88E-01	1.83E-01	1.95E-01	1.88E-01	1.92E-01
0.181	0.189032	0.191544	1.85E-01	1.77E-01	1.91E-01	1.94E-01	1.89E-01
0.153	0.185406	0.199003	1.81E-01	1.71E-01	1.88E-01	2.01E-01	1.85E-01
0.136	0.175316	0.170873	1.71E-01	1.82E-01	1.77E-01	1.73E-01	1.75E-01
0.138	0.171632	0.167633	1.67E-01	1.80E-01	1.74E-01	1.70E-01	1.72E-01
0.139	0.167949	0.16624	1.64E-01	1.77E-01	1.70E-01	1.68E-01	1.68E-01
0.131	0.164265	0.166693	1.60E-01	1.73E-01	1.66E-01	1.69E-01	1.64E-01
0.125	0.160581	0.168992	1.56E-01	1.68E-01	1.63E-01	1.71E-01	1.60E-01
0.108	0.156897	0.173139	1.53E-01	1.62E-01	1.59E-01	1.75E-01	1.57E-01
0.101	0.118875	0.142502	1.15E-01	1.45E-01	1.21E-01	1.45E-01	1.19E-01
0.098	0.115076	0.132637	1.11E-01	1.43E-01	1.17E-01	1.35E-01	1.15E-01
0.102	0.111277	0.124619	1.07E-01	1.40E-01	1.13E-01	1.27E-01	1.11E-01
0.097	0.107478	0.118447	1.03E-01	1.36E-01	1.10E-01	1.21E-01	1.07E-01
0.096	0.103679	0.114121	9.94E-02	1.31E-01	1.06E-01	1.16E-01	1.04E-01
0.078	0.09988	0.111642	9.56E-02	1.24E-01	1.02E-01	1.14E-01	9.98E-02
0.071	0.062435	0.101106	5.82E-02	8.27E-02	6.46E-02	1.03E-01	6.19E-02
0.065	0.05852	0.084616	5.43E-02	8.08E-02	6.07E-02	8.68E-02	5.82E-02
0.063	0.054606	0.069973	5.04E-02	7.77E-02	5.67E-02	7.21E-02	5.44E-02
0.061	0.050691	0.057176	4.65E-02	7.36E-02	5.28E-02	5.93E-02	5.06E-02
0.066	0.046777	0.046225	4.25E-02	6.84E-02	4.89E-02	4.84E-02	4.69E-02
0.038	0.042862	0.037121	3.86E-02	6.22E-02	4.50E-02	3.93E-02	4.31E-02
0.025	0.005994	0.046686	1.76E-03	-4.47E-03	8.13E-03	4.88E-02	5.21E-03
0.026	0.001964	0.023571	-2.27E-03	-6.44E-03	4.10E-03	2.57E-02	1.44E-03
0.021	-0.00207	0.002302	-6.30E-03	-9.48E-03	7.31E-05	4.44E-03	-2.33E-03
0.022	-0.0061	-0.01712	-1.03E-02	-1.36E-02	-3.96E-03	-1.50E-02	-6.10E-03
0.019	-0.01013	-0.0347	-1.44E-02	-1.88E-02	-7.99E-03	-3.26E-02	-9.87E-03
0.009	-0.01416	-0.05042	-1.84E-02	-2.50E-02	-1.20E-02	-4.83E-02	-1.36E-02
0.317	0.257847	0.212309	2.54E-01	2.21E-01	2.48E-01	2.03E-01	2.58E-01
0.322	0.254278	0.215694	2.50E-01	2.19E-01	2.45E-01	2.06E-01	2.54E-01
0.318	0.25071	0.220926	2.46E-01	2.16E-01	2.41E-01	2.12E-01	2.50E-01
0.319	0.247142	0.228004	2.43E-01	2.12E-01	2.38E-01	2.19E-01	2.46E-01
0.32	0.243573	0.236929	2.39E-01	2.07E-01	2.34E-01	2.28E-01	2.43E-01
0.313	0.240005	0.2477	2.36E-01	2.00E-01	2.31E-01	2.38E-01	2.39E-01
0.241	0.229626	0.206264	2.25E-01	2.18E-01	2.20E-01	1.97E-01	2.29E-01
0.239	0.226	0.206336	2.22E-01	2.16E-01	2.17E-01	1.97E-01	2.26E-01
0.231	0.222374	0.208256	2.18E-01	2.13E-01	2.13E-01	1.99E-01	2.22E-01
0.228	0.218748	0.212021	2.15E-01	2.09E-01	2.09E-01	2.03E-01	2.18E-01
0.225	0.215122	0.217634	2.11E-01	2.04E-01	2.06E-01	2.08E-01	2.14E-01
0.201	0.211496	0.225092	2.07E-01	1.97E-01	2.02E-01	2.16E-01	2.11E-01
0.171	0.201406	0.196963	1.97E-01	2.08E-01	1.92E-01	1.88E-01	2.01E-01
0.168	0.197722	0.193723	1.93E-01	2.07E-01	1.88E-01	1.84E-01	1.97E-01
0.161	0.194039	0.192329	1.90E-01	2.03E-01	1.85E-01	1.83E-01	1.94E-01
0.16	0.190355	0.192783	1.86E-01	1.99E-01	1.81E-01	1.83E-01	1.90E-01
0.159	0.186671	0.195082	1.82E-01	1.94E-01	1.77E-01	1.86E-01	1.86E-01
0.125	0.182987	0.199229	1.79E-01	1.88E-01	1.74E-01	1.90E-01	1.82E-01
0.128	0.144965	0.168592	1.41E-01	1.71E-01	1.36E-01	1.59E-01	1.44E-01
0.121	0.141166	0.158727	1.37E-01	1.69E-01	1.32E-01	1.49E-01	1.41E-01

0.123	0.137367	0.150708	1.33E-01	1.66E-01	1.28E-01	1.41E-01	1.37E-01
0.124	0.133568	0.144537	1.29E-01	1.62E-01	1.24E-01	1.35E-01	1.33E-01
0.119	0.129769	0.140211	1.26E-01	1.57E-01	1.20E-01	1.31E-01	1.29E-01
0.083	0.12597	0.137732	1.22E-01	1.51E-01	1.17E-01	1.28E-01	1.25E-01
0.092	0.088525	0.127196	8.43E-02	1.09E-01	7.92E-02	1.18E-01	8.76E-02
0.091	0.08461	0.110706	8.04E-02	1.07E-01	7.53E-02	1.01E-01	8.38E-02
0.089	0.080696	0.096063	7.65E-02	1.04E-01	7.13E-02	8.67E-02	8.01E-02
0.083	0.076781	0.083266	7.25E-02	9.97E-02	6.74E-02	7.39E-02	7.63E-02
0.079	0.072867	0.072315	6.86E-02	9.45E-02	6.35E-02	6.30E-02	7.25E-02
0.055	0.068952	0.063211	6.47E-02	8.83E-02	5.96E-02	5.39E-02	6.87E-02
0.042	0.032084	0.072776	2.78E-02	2.16E-02	2.27E-02	6.34E-02	3.09E-02
0.039	0.028054	0.049661	2.38E-02	1.97E-02	1.87E-02	4.03E-02	2.71E-02
0.036	0.024024	0.028392	1.98E-02	1.66E-02	1.47E-02	1.90E-02	2.33E-02
0.033	0.019994	0.00897	1.58E-02	1.25E-02	1.06E-02	-3.87E-04	1.96E-02
0.029	0.015965	-0.00861	1.17E-02	7.32E-03	6.61E-03	-1.80E-02	1.58E-02
0.003	0.011935	-0.02433	7.70E-03	1.07E-03	2.58E-03	-3.37E-02	1.20E-02
0.422	0.310027	0.264488	3.06E-01	2.73E-01	3.07E-01	2.61E-01	3.09E-01
0.425	0.306458	0.267874	3.02E-01	2.71E-01	3.03E-01	2.65E-01	3.05E-01
0.426	0.30289	0.273105	2.99E-01	2.68E-01	3.00E-01	2.70E-01	3.02E-01
0.427	0.299321	0.280184	2.95E-01	2.64E-01	2.96E-01	2.77E-01	2.98E-01
0.418	0.295753	0.289109	2.92E-01	2.59E-01	2.93E-01	2.86E-01	2.94E-01
0.401	0.292185	0.29988	2.88E-01	2.53E-01	2.89E-01	2.97E-01	2.90E-01
0.268	0.281806	0.258444	2.78E-01	2.70E-01	2.79E-01	2.55E-01	2.81E-01
0.269	0.27818	0.258516	2.74E-01	2.68E-01	2.75E-01	2.55E-01	2.77E-01
0.263	0.274554	0.260435	2.70E-01	2.65E-01	2.71E-01	2.57E-01	2.73E-01
0.261	0.270928	0.264201	2.67E-01	2.61E-01	2.68E-01	2.61E-01	2.69E-01
0.259	0.267302	0.269814	2.63E-01	2.56E-01	2.64E-01	2.67E-01	2.66E-01
0.227	0.263676	0.277272	2.59E-01	2.49E-01	2.61E-01	2.74E-01	2.62E-01
0.178	0.253586	0.249142	2.49E-01	2.61E-01	2.50E-01	2.46E-01	2.52E-01
0.179	0.249902	0.245903	2.46E-01	2.59E-01	2.47E-01	2.43E-01	2.49E-01
0.176	0.246218	0.244509	2.42E-01	2.56E-01	2.43E-01	2.41E-01	2.45E-01
0.175	0.242535	0.244963	2.38E-01	2.52E-01	2.39E-01	2.42E-01	2.41E-01
0.169	0.238851	0.247262	2.35E-01	2.46E-01	2.36E-01	2.44E-01	2.37E-01
0.133	0.235167	0.251408	2.31E-01	2.40E-01	2.32E-01	2.48E-01	2.33E-01
0.123	0.197145	0.220772	1.93E-01	2.23E-01	1.94E-01	2.18E-01	1.96E-01
0.118	0.193346	0.210907	1.89E-01	2.21E-01	1.90E-01	2.08E-01	1.92E-01
0.123	0.189547	0.202888	1.85E-01	2.18E-01	1.86E-01	2.00E-01	1.88E-01
0.119	0.185748	0.196716	1.82E-01	2.14E-01	1.83E-01	1.94E-01	1.84E-01
0.126	0.181949	0.192391	1.78E-01	2.09E-01	1.79E-01	1.89E-01	1.81E-01
0.086	0.17815	0.189912	1.74E-01	2.03E-01	1.75E-01	1.87E-01	1.77E-01
0.089	0.140705	0.179376	1.36E-01	1.61E-01	1.38E-01	1.76E-01	1.39E-01
0.086	0.13679	0.162886	1.33E-01	1.59E-01	1.34E-01	1.60E-01	1.35E-01
0.086	0.132876	0.148242	1.29E-01	1.56E-01	1.30E-01	1.45E-01	1.31E-01
0.085	0.128961	0.135445	1.25E-01	1.52E-01	1.26E-01	1.32E-01	1.28E-01
0.083	0.125047	0.124495	1.21E-01	1.47E-01	1.22E-01	1.21E-01	1.24E-01
0.055	0.121132	0.115391	1.17E-01	1.40E-01	1.18E-01	1.12E-01	1.20E-01
0.044	0.084264	0.124956	8.00E-02	7.38E-02	8.11E-02	1.22E-01	8.22E-02
0.041	0.080234	0.10184	7.60E-02	7.18E-02	7.71E-02	9.87E-02	7.84E-02

0.044	0.076204	0.080572	7.20E-02	6.88E-02	7.30E-02	7.74E-02	7.46E-02
0.039	0.072174	0.06115	6.79E-02	6.47E-02	6.90E-02	5.80E-02	7.09E-02
0.041	0.068144	0.043574	6.39E-02	5.95E-02	6.50E-02	4.04E-02	6.71E-02
0.011	0.064115	0.027845	5.99E-02	5.32E-02	6.10E-02	2.47E-02	6.33E-02
0.412	0.304554	0.259016	3.00E-01	2.68E-01	3.08E-01	2.62E-01	3.08E-01
0.413	0.300985	0.262401	2.97E-01	2.66E-01	3.04E-01	2.66E-01	3.04E-01
0.414	0.297417	0.267633	2.93E-01	2.63E-01	3.01E-01	2.71E-01	3.01E-01
0.415	0.293849	0.274711	2.90E-01	2.59E-01	2.97E-01	2.78E-01	2.97E-01
0.397	0.29028	0.283636	2.86E-01	2.53E-01	2.94E-01	2.87E-01	2.93E-01
0.374	0.286712	0.294407	2.83E-01	2.47E-01	2.90E-01	2.98E-01	2.89E-01
0.286	0.276333	0.252971	2.72E-01	2.65E-01	2.80E-01	2.56E-01	2.80E-01
0.287	0.272707	0.253043	2.69E-01	2.63E-01	2.76E-01	2.56E-01	2.76E-01
0.291	0.269081	0.254963	2.65E-01	2.60E-01	2.72E-01	2.58E-01	2.72E-01
0.285	0.265455	0.258728	2.61E-01	2.55E-01	2.69E-01	2.62E-01	2.69E-01
0.271	0.261829	0.264341	2.58E-01	2.50E-01	2.65E-01	2.68E-01	2.65E-01
0.236	0.258203	0.271799	2.54E-01	2.44E-01	2.62E-01	2.75E-01	2.61E-01
0.172	0.248113	0.24367	2.44E-01	2.55E-01	2.51E-01	2.47E-01	2.52E-01
0.171	0.244429	0.24043	2.40E-01	2.53E-01	2.48E-01	2.44E-01	2.48E-01
0.175	0.240746	0.239036	2.37E-01	2.50E-01	2.44E-01	2.42E-01	2.44E-01
0.173	0.237062	0.23949	2.33E-01	2.46E-01	2.40E-01	2.43E-01	2.40E-01
0.178	0.233378	0.241789	2.29E-01	2.41E-01	2.37E-01	2.45E-01	2.36E-01
0.152	0.229694	0.245936	2.25E-01	2.35E-01	2.33E-01	2.49E-01	2.33E-01
0.126	0.191672	0.215299	1.87E-01	2.18E-01	1.95E-01	2.19E-01	1.95E-01
0.128	0.187873	0.205434	1.84E-01	2.16E-01	1.91E-01	2.09E-01	1.91E-01
0.131	0.184074	0.197415	1.80E-01	2.13E-01	1.87E-01	2.01E-01	1.87E-01
0.125	0.180275	0.191244	1.76E-01	2.09E-01	1.84E-01	1.95E-01	1.83E-01
0.121	0.176476	0.186918	1.72E-01	2.04E-01	1.80E-01	1.90E-01	1.80E-01
0.102	0.172677	0.184439	1.68E-01	1.97E-01	1.76E-01	1.88E-01	1.76E-01
0.091	0.135232	0.173903	1.31E-01	1.56E-01	1.39E-01	1.77E-01	1.38E-01
0.092	0.131317	0.157413	1.27E-01	1.54E-01	1.35E-01	1.61E-01	1.34E-01
0.089	0.127403	0.14277	1.23E-01	1.51E-01	1.31E-01	1.46E-01	1.31E-01
0.091	0.123488	0.129973	1.19E-01	1.46E-01	1.27E-01	1.33E-01	1.27E-01
0.087	0.119574	0.119022	1.15E-01	1.41E-01	1.23E-01	1.22E-01	1.23E-01
0.071	0.115659	0.109918	1.11E-01	1.35E-01	1.19E-01	1.13E-01	1.19E-01
0.045	0.078791	0.119483	7.46E-02	6.83E-02	8.22E-02	1.23E-01	8.13E-02
0.048	0.074761	0.096368	7.06E-02	6.64E-02	7.81E-02	9.97E-02	7.75E-02
0.049	0.070731	0.075099	6.65E-02	6.33E-02	7.41E-02	7.85E-02	7.38E-02
0.043	0.066701	0.055677	6.25E-02	5.92E-02	7.01E-02	5.90E-02	7.00E-02
0.039	0.062672	0.038101	5.85E-02	5.40E-02	6.60E-02	4.15E-02	6.62E-02
0.009	0.058642	0.022372	5.44E-02	4.78E-02	6.20E-02	2.57E-02	6.25E-02
0.439	0.330644	0.285105	3.26E-01	2.94E-01	3.23E-01	2.77E-01	3.27E-01
0.438	0.327075	0.288491	3.23E-01	2.92E-01	3.19E-01	2.80E-01	3.23E-01
0.44	0.323507	0.293723	3.19E-01	2.89E-01	3.15E-01	2.86E-01	3.20E-01
0.438	0.319938	0.300801	3.16E-01	2.85E-01	3.12E-01	2.93E-01	3.16E-01
0.426	0.31637	0.309726	3.12E-01	2.79E-01	3.08E-01	3.02E-01	3.12E-01
0.401	0.312802	0.320497	3.09E-01	2.73E-01	3.05E-01	3.12E-01	3.08E-01
0.278	0.302423	0.279061	2.98E-01	2.91E-01	2.94E-01	2.71E-01	2.99E-01
0.278	0.298797	0.279133	2.95E-01	2.89E-01	2.91E-01	2.71E-01	2.95E-01

0.273	0.295171	0.281053	2.91E-01	2.86E-01	2.87E-01	2.73E-01	2.91E-01
0.269	0.291545	0.284818	2.87E-01	2.82E-01	2.83E-01	2.77E-01	2.88E-01
0.254	0.287919	0.290431	2.84E-01	2.76E-01	2.80E-01	2.82E-01	2.84E-01
0.221	0.284293	0.297889	2.80E-01	2.70E-01	2.76E-01	2.90E-01	2.80E-01
0.183	0.274203	0.26976	2.70E-01	2.81E-01	2.66E-01	2.62E-01	2.70E-01
0.182	0.270519	0.26652	2.66E-01	2.79E-01	2.62E-01	2.58E-01	2.67E-01
0.181	0.266835	0.265126	2.63E-01	2.76E-01	2.59E-01	2.57E-01	2.63E-01
0.183	0.263152	0.26558	2.59E-01	2.72E-01	2.55E-01	2.57E-01	2.59E-01
0.18	0.259468	0.267879	2.55E-01	2.67E-01	2.51E-01	2.60E-01	2.55E-01
0.153	0.255784	0.272026	2.52E-01	2.61E-01	2.48E-01	2.64E-01	2.52E-01
0.116	0.217762	0.241389	2.14E-01	2.44E-01	2.10E-01	2.33E-01	2.14E-01
0.117	0.213963	0.231524	2.10E-01	2.42E-01	2.06E-01	2.23E-01	2.10E-01
0.116	0.210164	0.223505	2.06E-01	2.39E-01	2.02E-01	2.15E-01	2.06E-01
0.118	0.206365	0.217333	2.02E-01	2.35E-01	1.98E-01	2.09E-01	2.02E-01
0.113	0.202566	0.213008	1.98E-01	2.30E-01	1.94E-01	2.05E-01	1.99E-01
0.092	0.198767	0.210529	1.95E-01	2.23E-01	1.91E-01	2.02E-01	1.95E-01
0.086	0.161322	0.199993	1.57E-01	1.82E-01	1.53E-01	1.92E-01	1.57E-01
0.085	0.157407	0.183503	1.53E-01	1.80E-01	1.49E-01	1.75E-01	1.53E-01
0.084	0.153493	0.16886	1.49E-01	1.77E-01	1.45E-01	1.61E-01	1.49E-01
0.085	0.149578	0.156063	1.45E-01	1.73E-01	1.41E-01	1.48E-01	1.46E-01
0.084	0.145664	0.145112	1.41E-01	1.67E-01	1.38E-01	1.37E-01	1.42E-01
0.052	0.141749	0.136008	1.38E-01	1.61E-01	1.34E-01	1.28E-01	1.38E-01
0.029	0.104881	0.145573	1.01E-01	9.44E-02	9.67E-02	1.37E-01	1.00E-01
0.031	0.100851	0.122458	9.66E-02	9.24E-02	9.27E-02	1.14E-01	9.65E-02
0.032	0.096821	0.101189	9.26E-02	8.94E-02	8.87E-02	9.31E-02	9.28E-02
0.036	0.092791	0.081767	8.86E-02	8.53E-02	8.47E-02	7.36E-02	8.90E-02
0.028	0.088761	0.064191	8.46E-02	8.01E-02	8.06E-02	5.61E-02	8.52E-02
0.009	0.084732	0.048462	8.05E-02	7.39E-02	7.66E-02	4.03E-02	8.15E-02
0.162	0.256566	0.211027	2.54E-01	2.20E-01	2.66E-01	2.20E-01	2.56E-01
0.165	0.252997	0.214413	2.51E-01	2.18E-01	2.62E-01	2.24E-01	2.52E-01
0.163	0.249429	0.219644	2.47E-01	2.15E-01	2.59E-01	2.29E-01	2.49E-01
0.165	0.24586	0.226723	2.43E-01	2.11E-01	2.55E-01	2.36E-01	2.45E-01
0.166	0.242292	0.235648	2.40E-01	2.05E-01	2.52E-01	2.45E-01	2.41E-01
0.161	0.238724	0.246419	2.36E-01	1.99E-01	2.48E-01	2.56E-01	2.37E-01
0.152	0.228345	0.204983	2.26E-01	2.17E-01	2.38E-01	2.14E-01	2.28E-01
0.151	0.224719	0.205055	2.22E-01	2.15E-01	2.34E-01	2.14E-01	2.24E-01
0.152	0.221093	0.206974	2.19E-01	2.12E-01	2.30E-01	2.16E-01	2.20E-01
0.149	0.217467	0.21074	2.15E-01	2.07E-01	2.27E-01	2.20E-01	2.17E-01
0.151	0.213841	0.216353	2.11E-01	2.02E-01	2.23E-01	2.26E-01	2.13E-01
0.148	0.210215	0.223811	2.08E-01	1.96E-01	2.20E-01	2.33E-01	2.09E-01
0.135	0.200125	0.195681	1.98E-01	2.07E-01	2.09E-01	2.05E-01	1.99E-01
0.135	0.196441	0.192442	1.94E-01	2.05E-01	2.06E-01	2.02E-01	1.96E-01
0.134	0.192757	0.191048	1.90E-01	2.02E-01	2.02E-01	2.00E-01	1.92E-01
0.131	0.189074	0.191502	1.87E-01	1.98E-01	1.98E-01	2.01E-01	1.88E-01
0.129	0.18539	0.193801	1.83E-01	1.93E-01	1.95E-01	2.03E-01	1.84E-01
0.115	0.181706	0.197947	1.79E-01	1.87E-01	1.91E-01	2.07E-01	1.81E-01
0.111	0.143684	0.167311	1.41E-01	1.70E-01	1.53E-01	1.77E-01	1.43E-01
0.108	0.139885	0.157446	1.37E-01	1.68E-01	1.49E-01	1.67E-01	1.39E-01

0.101	0.136086	0.149427	1.34E-01	1.65E-01	1.45E-01	1.59E-01	1.35E-01
0.105	0.132287	0.143255	1.30E-01	1.61E-01	1.42E-01	1.53E-01	1.31E-01
0.106	0.128488	0.13893	1.26E-01	1.56E-01	1.38E-01	1.48E-01	1.28E-01
0.089	0.124689	0.136451	1.22E-01	1.49E-01	1.34E-01	1.46E-01	1.24E-01
0.081	0.087244	0.125915	8.48E-02	1.08E-01	9.66E-02	1.35E-01	8.60E-02
0.079	0.083329	0.109425	8.09E-02	1.06E-01	9.27E-02	1.19E-01	8.23E-02
0.078	0.079415	0.094781	7.69E-02	1.03E-01	8.88E-02	1.04E-01	7.85E-02
0.076	0.0755	0.081984	7.30E-02	9.84E-02	8.48E-02	9.13E-02	7.47E-02
0.075	0.071586	0.071034	6.91E-02	9.32E-02	8.09E-02	8.04E-02	7.10E-02
0.059	0.067671	0.06193	6.52E-02	8.70E-02	7.70E-02	7.13E-02	6.72E-02
0.061	0.030803	0.071495	2.83E-02	2.03E-02	4.01E-02	8.08E-02	2.93E-02
0.059	0.026773	0.048379	2.43E-02	1.84E-02	3.61E-02	5.77E-02	2.55E-02
0.058	0.022743	0.027111	2.03E-02	1.53E-02	3.21E-02	3.65E-02	2.18E-02
0.055	0.018713	0.007689	1.62E-02	1.12E-02	2.81E-02	1.70E-02	1.80E-02
0.053	0.014683	-0.00989	1.22E-02	6.04E-03	2.40E-02	-5.42E-04	1.42E-02
0.035	0.010654	-0.02562	8.18E-03	-2.13E-04	2.00E-02	-1.63E-02	1.05E-02
0.241	0.282656	0.237117	2.80E-01	2.46E-01	2.81E-01	2.35E-01	2.83E-01
0.239	0.279087	0.240503	2.77E-01	2.44E-01	2.77E-01	2.38E-01	2.80E-01
0.238	0.275519	0.245734	2.73E-01	2.41E-01	2.73E-01	2.44E-01	2.76E-01
0.244	0.27195	0.252813	2.69E-01	2.37E-01	2.70E-01	2.51E-01	2.72E-01
0.238	0.268382	0.261738	2.66E-01	2.31E-01	2.66E-01	2.60E-01	2.68E-01
0.231	0.264813	0.272509	2.62E-01	2.25E-01	2.63E-01	2.70E-01	2.64E-01
0.225	0.254435	0.231072	2.52E-01	2.43E-01	2.52E-01	2.29E-01	2.55E-01
0.226	0.250809	0.231145	2.48E-01	2.41E-01	2.49E-01	2.29E-01	2.51E-01
0.222	0.247183	0.233064	2.45E-01	2.38E-01	2.45E-01	2.31E-01	2.47E-01
0.221	0.243557	0.23683	2.41E-01	2.34E-01	2.41E-01	2.35E-01	2.44E-01
0.221	0.239931	0.242442	2.37E-01	2.28E-01	2.38E-01	2.40E-01	2.40E-01
0.202	0.236305	0.249901	2.34E-01	2.22E-01	2.34E-01	2.48E-01	2.36E-01
0.195	0.226215	0.221771	2.24E-01	2.33E-01	2.24E-01	2.20E-01	2.27E-01
0.193	0.222531	0.218532	2.20E-01	2.31E-01	2.20E-01	2.16E-01	2.23E-01
0.194	0.218847	0.217138	2.16E-01	2.28E-01	2.17E-01	2.15E-01	2.19E-01
0.1914	0.215164	0.217591	2.13E-01	2.24E-01	2.13E-01	2.15E-01	2.15E-01
0.189	0.21148	0.219891	2.09E-01	2.19E-01	2.09E-01	2.18E-01	2.12E-01
0.162	0.207796	0.224037	2.05E-01	2.13E-01	2.06E-01	2.22E-01	2.08E-01
0.155	0.169774	0.193401	1.67E-01	1.96E-01	1.68E-01	1.91E-01	1.70E-01
0.156	0.165975	0.183536	1.63E-01	1.94E-01	1.64E-01	1.81E-01	1.66E-01
0.157	0.162176	0.175517	1.60E-01	1.91E-01	1.60E-01	1.73E-01	1.62E-01
0.155	0.158377	0.169345	1.56E-01	1.87E-01	1.56E-01	1.67E-01	1.59E-01
0.156	0.154578	0.16502	1.52E-01	1.82E-01	1.52E-01	1.63E-01	1.55E-01
0.135	0.150778	0.162541	1.48E-01	1.75E-01	1.49E-01	1.60E-01	1.51E-01
0.133	0.113334	0.152005	1.11E-01	1.34E-01	1.11E-01	1.50E-01	1.13E-01
0.129	0.109419	0.135515	1.07E-01	1.32E-01	1.07E-01	1.33E-01	1.09E-01
0.128	0.105505	0.120871	1.03E-01	1.29E-01	1.03E-01	1.19E-01	1.06E-01
0.131	0.10159	0.108074	9.91E-02	1.25E-01	9.94E-02	1.06E-01	1.02E-01
0.128	0.097675	0.097124	9.52E-02	1.19E-01	9.55E-02	9.50E-02	9.81E-02
0.096	0.093761	0.08802	9.13E-02	1.13E-01	9.16E-02	8.59E-02	9.43E-02
0.095	0.056893	0.097585	5.44E-02	4.64E-02	5.47E-02	9.54E-02	5.64E-02
0.094	0.052863	0.074469	5.04E-02	4.45E-02	5.07E-02	7.23E-02	5.26E-02

0.093	0.048833	0.053201	4.64E-02	4.14E-02	4.67E-02	5.10E-02	4.89E-02
0.094	0.044803	0.033779	4.23E-02	3.73E-02	4.27E-02	3.16E-02	4.51E-02
0.089	0.040773	0.016203	3.83E-02	3.21E-02	3.86E-02	1.41E-02	4.13E-02
0.051	0.036743	0.000474	3.43E-02	2.59E-02	3.46E-02	-1.68E-03	3.76E-02
0.331	0.334835	0.289297	3.32E-01	2.98E-01	3.39E-01	2.93E-01	3.38E-01
0.329	0.331267	0.292682	3.29E-01	2.96E-01	3.35E-01	2.97E-01	3.34E-01
0.335	0.327699	0.297914	3.25E-01	2.93E-01	3.32E-01	3.02E-01	3.30E-01
0.327	0.32413	0.304993	3.22E-01	2.89E-01	3.28E-01	3.09E-01	3.26E-01
0.341	0.320562	0.313917	3.18E-01	2.84E-01	3.25E-01	3.18E-01	3.22E-01
0.303	0.316993	0.324689	3.15E-01	2.77E-01	3.21E-01	3.29E-01	3.19E-01
0.305	0.306615	0.283252	3.04E-01	2.95E-01	3.11E-01	2.87E-01	3.09E-01
0.307	0.302989	0.283325	3.01E-01	2.93E-01	3.07E-01	2.87E-01	3.05E-01
0.309	0.299363	0.285244	2.97E-01	2.90E-01	3.03E-01	2.89E-01	3.02E-01
0.305	0.295737	0.28901	2.93E-01	2.86E-01	3.00E-01	2.93E-01	2.98E-01
0.311	0.292111	0.294622	2.90E-01	2.81E-01	2.96E-01	2.99E-01	2.94E-01
0.254	0.288485	0.302081	2.86E-01	2.74E-01	2.93E-01	3.06E-01	2.90E-01
0.261	0.278395	0.273951	2.76E-01	2.85E-01	2.82E-01	2.78E-01	2.81E-01
0.259	0.274711	0.270711	2.72E-01	2.84E-01	2.79E-01	2.75E-01	2.77E-01
0.262	0.271027	0.269318	2.69E-01	2.80E-01	2.75E-01	2.73E-01	2.73E-01
0.263	0.267343	0.269771	2.65E-01	2.76E-01	2.71E-01	2.74E-01	2.69E-01
0.265	0.26366	0.272071	2.61E-01	2.71E-01	2.68E-01	2.76E-01	2.66E-01
0.187	0.259976	0.276217	2.58E-01	2.65E-01	2.64E-01	2.80E-01	2.62E-01
0.165	0.221954	0.24558	2.19E-01	2.48E-01	2.26E-01	2.50E-01	2.24E-01
0.166	0.218155	0.235716	2.16E-01	2.46E-01	2.22E-01	2.40E-01	2.20E-01
0.159	0.214356	0.227697	2.12E-01	2.43E-01	2.18E-01	2.32E-01	2.17E-01
0.161	0.210557	0.221525	2.08E-01	2.39E-01	2.15E-01	2.26E-01	2.13E-01
0.154	0.206757	0.2172	2.04E-01	2.34E-01	2.11E-01	2.21E-01	2.09E-01
0.135	0.202958	0.214721	2.00E-01	2.28E-01	2.07E-01	2.19E-01	2.05E-01
0.123	0.165513	0.204185	1.63E-01	1.86E-01	1.70E-01	2.08E-01	1.67E-01
0.119	0.161599	0.187695	1.59E-01	1.84E-01	1.66E-01	1.92E-01	1.64E-01
0.118	0.157684	0.173051	1.55E-01	1.81E-01	1.62E-01	1.77E-01	1.60E-01
0.125	0.15377	0.160254	1.51E-01	1.77E-01	1.58E-01	1.64E-01	1.56E-01
0.128	0.149855	0.149304	1.47E-01	1.72E-01	1.54E-01	1.53E-01	1.52E-01
0.091	0.145941	0.1402	1.43E-01	1.65E-01	1.50E-01	1.44E-01	1.48E-01
0.084	0.109073	0.149764	1.07E-01	9.86E-02	1.13E-01	1.54E-01	1.11E-01
0.083	0.105043	0.126649	1.03E-01	9.66E-02	1.09E-01	1.31E-01	1.07E-01
0.082	0.101013	0.105381	9.85E-02	9.36E-02	1.05E-01	1.09E-01	1.03E-01
0.082	0.096983	0.085958	9.45E-02	8.95E-02	1.01E-01	9.00E-02	9.93E-02
0.081	0.092953	0.068383	9.05E-02	8.43E-02	9.70E-02	7.24E-02	9.55E-02
0.051	0.088923	0.052654	8.64E-02	7.81E-02	9.30E-02	5.67E-02	9.18E-02
0.231	0.272449	0.22691	2.70E-01	2.36E-01	2.75E-01	2.29E-01	2.73E-01
0.229	0.26888	0.230296	2.66E-01	2.34E-01	2.71E-01	2.32E-01	2.69E-01
0.228	0.265312	0.235527	2.63E-01	2.31E-01	2.67E-01	2.38E-01	2.65E-01
0.231	0.261743	0.242606	2.59E-01	2.26E-01	2.64E-01	2.45E-01	2.62E-01
0.229	0.258175	0.251531	2.56E-01	2.21E-01	2.60E-01	2.54E-01	2.58E-01
0.225	0.254607	0.262302	2.52E-01	2.15E-01	2.57E-01	2.64E-01	2.54E-01
0.215	0.244228	0.220865	2.42E-01	2.32E-01	2.46E-01	2.23E-01	2.44E-01
0.216	0.240602	0.220938	2.38E-01	2.30E-01	2.43E-01	2.23E-01	2.41E-01

0.213	0.236976	0.222857	2.35E-01	2.27E-01	2.39E-01	2.25E-01	2.37E-01
0.214	0.23335	0.226623	2.31E-01	2.23E-01	2.35E-01	2.29E-01	2.33E-01
0.215	0.229724	0.232235	2.27E-01	2.18E-01	2.32E-01	2.34E-01	2.29E-01
0.193	0.226098	0.239694	2.24E-01	2.12E-01	2.28E-01	2.42E-01	2.26E-01
0.199	0.216008	0.211564	2.14E-01	2.23E-01	2.18E-01	2.14E-01	2.16E-01
0.201	0.212324	0.208325	2.10E-01	2.21E-01	2.14E-01	2.10E-01	2.12E-01
0.199	0.20864	0.206931	2.06E-01	2.18E-01	2.11E-01	2.09E-01	2.09E-01
0.202	0.204957	0.207384	2.02E-01	2.14E-01	2.07E-01	2.10E-01	2.05E-01
0.195	0.201273	0.209684	1.99E-01	2.09E-01	2.03E-01	2.12E-01	2.01E-01
0.164	0.197589	0.21383	1.95E-01	2.03E-01	2.00E-01	2.16E-01	1.97E-01
0.153	0.159567	0.183194	1.57E-01	1.86E-01	1.62E-01	1.85E-01	1.59E-01
0.155	0.155768	0.173329	1.53E-01	1.84E-01	1.58E-01	1.75E-01	1.56E-01
0.156	0.151969	0.16531	1.49E-01	1.81E-01	1.54E-01	1.67E-01	1.52E-01
0.151	0.14817	0.159138	1.46E-01	1.77E-01	1.50E-01	1.61E-01	1.48E-01
0.149	0.144371	0.154813	1.42E-01	1.71E-01	1.47E-01	1.57E-01	1.44E-01
0.121	0.140571	0.152334	1.38E-01	1.65E-01	1.43E-01	1.54E-01	1.41E-01
0.123	0.103127	0.141798	1.01E-01	1.23E-01	1.05E-01	1.44E-01	1.03E-01
0.121	0.099212	0.125308	9.67E-02	1.21E-01	1.01E-01	1.27E-01	9.89E-02
0.121	0.095298	0.110664	9.28E-02	1.18E-01	9.74E-02	1.13E-01	9.51E-02
0.123	0.091383	0.097867	8.89E-02	1.14E-01	9.35E-02	1.00E-01	9.13E-02
0.122	0.087469	0.086917	8.50E-02	1.09E-01	8.96E-02	8.91E-02	8.76E-02
0.091	0.083554	0.077813	8.11E-02	1.03E-01	8.57E-02	8.00E-02	8.38E-02
0.095	0.046686	0.087378	4.42E-02	3.62E-02	4.88E-02	8.95E-02	4.59E-02
0.094	0.042656	0.064262	4.02E-02	3.43E-02	4.48E-02	6.64E-02	4.21E-02
0.093	0.038626	0.042994	3.62E-02	3.12E-02	4.08E-02	4.51E-02	3.84E-02
0.091	0.034596	0.023572	3.21E-02	2.71E-02	3.67E-02	2.57E-02	3.46E-02
0.088	0.030566	0.005996	2.81E-02	2.19E-02	3.27E-02	8.14E-03	3.08E-02
0.061	0.026536	-0.00973	2.41E-02	1.57E-02	2.87E-02	-7.58E-03	2.71E-02
0.32	0.298539	0.253	2.96E-01	2.62E-01	2.89E-01	2.44E-01	2.98E-01
0.321	0.29497	0.256386	2.93E-01	2.60E-01	2.86E-01	2.47E-01	2.95E-01
0.322	0.291402	0.261617	2.89E-01	2.57E-01	2.82E-01	2.52E-01	2.91E-01
0.325	0.287833	0.268696	2.85E-01	2.53E-01	2.78E-01	2.59E-01	2.87E-01
0.319	0.284265	0.277621	2.82E-01	2.47E-01	2.75E-01	2.68E-01	2.83E-01
0.301	0.280696	0.288392	2.78E-01	2.41E-01	2.71E-01	2.79E-01	2.80E-01
0.287	0.270318	0.246955	2.68E-01	2.59E-01	2.61E-01	2.38E-01	2.70E-01
0.288	0.266692	0.247028	2.64E-01	2.57E-01	2.57E-01	2.38E-01	2.66E-01
0.291	0.263066	0.248947	2.61E-01	2.54E-01	2.54E-01	2.40E-01	2.63E-01
0.29	0.25944	0.252713	2.57E-01	2.49E-01	2.50E-01	2.43E-01	2.59E-01
0.289	0.255814	0.258325	2.53E-01	2.44E-01	2.46E-01	2.49E-01	2.55E-01
0.257	0.252188	0.265784	2.50E-01	2.38E-01	2.43E-01	2.56E-01	2.51E-01
0.231	0.242098	0.237654	2.40E-01	2.49E-01	2.33E-01	2.28E-01	2.42E-01
0.233	0.238414	0.234415	2.36E-01	2.47E-01	2.29E-01	2.25E-01	2.38E-01
0.235	0.23473	0.233021	2.32E-01	2.44E-01	2.25E-01	2.24E-01	2.34E-01
0.234	0.231047	0.233474	2.29E-01	2.40E-01	2.22E-01	2.24E-01	2.30E-01
0.231	0.227363	0.235774	2.25E-01	2.35E-01	2.18E-01	2.26E-01	2.27E-01
0.219	0.223679	0.23992	2.21E-01	2.29E-01	2.14E-01	2.31E-01	2.23E-01
0.178	0.185657	0.209284	1.83E-01	2.12E-01	1.76E-01	2.00E-01	1.85E-01
0.184	0.181858	0.199419	1.79E-01	2.10E-01	1.73E-01	1.90E-01	1.81E-01

0.181	0.178059	0.1914	1.76E-01	2.07E-01	1.69E-01	1.82E-01	1.77E-01
0.182	0.17426	0.185228	1.72E-01	2.03E-01	1.65E-01	1.76E-01	1.74E-01
0.179	0.170461	0.180903	1.68E-01	1.98E-01	1.61E-01	1.72E-01	1.70E-01
0.156	0.166661	0.178424	1.64E-01	1.91E-01	1.57E-01	1.69E-01	1.66E-01
0.131	0.129216	0.167888	1.27E-01	1.50E-01	1.20E-01	1.59E-01	1.28E-01
0.132	0.125302	0.151398	1.23E-01	1.48E-01	1.16E-01	1.42E-01	1.25E-01
0.133	0.121387	0.136754	1.19E-01	1.45E-01	1.12E-01	1.27E-01	1.21E-01
0.135	0.117473	0.123957	1.15E-01	1.40E-01	1.08E-01	1.15E-01	1.17E-01
0.136	0.113558	0.113007	1.11E-01	1.35E-01	1.04E-01	1.04E-01	1.13E-01
0.115	0.109644	0.103903	1.07E-01	1.29E-01	1.00E-01	9.46E-02	1.09E-01
0.101	0.072776	0.113468	7.03E-02	6.23E-02	6.34E-02	1.04E-01	7.16E-02
0.099	0.068746	0.090352	6.63E-02	6.03E-02	5.94E-02	8.10E-02	6.78E-02
0.102	0.064716	0.069084	6.22E-02	5.73E-02	5.54E-02	5.97E-02	6.40E-02
0.103	0.060686	0.049662	5.82E-02	5.32E-02	5.13E-02	4.03E-02	6.02E-02
0.095	0.056656	0.032086	5.42E-02	4.80E-02	4.73E-02	2.27E-02	5.65E-02
0.066	0.052626	0.016357	5.02E-02	4.18E-02	4.33E-02	7.01E-03	5.27E-02
0.422	0.350718	0.30518	3.48E-01	3.14E-01	3.48E-01	3.02E-01	3.50E-01
0.421	0.34715	0.308565	3.45E-01	3.12E-01	3.44E-01	3.05E-01	3.46E-01
0.422	0.343582	0.313797	3.41E-01	3.09E-01	3.40E-01	3.11E-01	3.42E-01
0.425	0.340013	0.320876	3.38E-01	3.05E-01	3.37E-01	3.18E-01	3.38E-01
0.415	0.336445	0.3298	3.34E-01	3.00E-01	3.33E-01	3.27E-01	3.35E-01
0.405	0.332876	0.340572	3.30E-01	2.93E-01	3.30E-01	3.37E-01	3.31E-01
0.354	0.322498	0.299135	3.20E-01	3.11E-01	3.19E-01	2.96E-01	3.21E-01
0.351	0.318872	0.299208	3.16E-01	3.09E-01	3.16E-01	2.96E-01	3.18E-01
0.356	0.315246	0.301127	3.13E-01	3.06E-01	3.12E-01	2.98E-01	3.14E-01
0.349	0.31162	0.304893	3.09E-01	3.02E-01	3.08E-01	3.02E-01	3.10E-01
0.355	0.307994	0.310505	3.06E-01	2.96E-01	3.05E-01	3.07E-01	3.06E-01
0.321	0.304368	0.317964	3.02E-01	2.90E-01	3.01E-01	3.15E-01	3.03E-01
0.305	0.294278	0.289834	2.92E-01	3.01E-01	2.91E-01	2.87E-01	2.93E-01
0.301	0.290594	0.286594	2.88E-01	2.99E-01	2.87E-01	2.83E-01	2.89E-01
0.302	0.28691	0.285201	2.84E-01	2.96E-01	2.84E-01	2.82E-01	2.86E-01
0.302	0.283226	0.285654	2.81E-01	2.92E-01	2.80E-01	2.83E-01	2.82E-01
0.301	0.279543	0.287954	2.77E-01	2.87E-01	2.76E-01	2.85E-01	2.78E-01
0.273	0.275859	0.2921	2.73E-01	2.81E-01	2.73E-01	2.89E-01	2.74E-01
0.183	0.237837	0.261463	2.35E-01	2.64E-01	2.35E-01	2.58E-01	2.36E-01
0.182	0.234038	0.251599	2.32E-01	2.62E-01	2.31E-01	2.48E-01	2.33E-01
0.181	0.230239	0.24358	2.28E-01	2.59E-01	2.27E-01	2.40E-01	2.29E-01
0.179	0.22644	0.237408	2.24E-01	2.55E-01	2.23E-01	2.34E-01	2.25E-01
0.182	0.22264	0.233083	2.20E-01	2.50E-01	2.19E-01	2.30E-01	2.21E-01
0.161	0.218841	0.230604	2.16E-01	2.43E-01	2.16E-01	2.27E-01	2.17E-01
0.136	0.181396	0.220068	1.79E-01	2.02E-01	1.78E-01	2.17E-01	1.80E-01
0.137	0.177482	0.203578	1.75E-01	2.00E-01	1.74E-01	2.00E-01	1.76E-01
0.136	0.173567	0.188934	1.71E-01	1.97E-01	1.70E-01	1.86E-01	1.72E-01
0.135	0.169653	0.176137	1.67E-01	1.93E-01	1.67E-01	1.73E-01	1.68E-01
0.129	0.165738	0.165187	1.63E-01	1.87E-01	1.63E-01	1.62E-01	1.65E-01
0.112	0.161824	0.156083	1.59E-01	1.81E-01	1.59E-01	1.53E-01	1.61E-01
0.088	0.124956	0.165647	1.22E-01	1.14E-01	1.22E-01	1.62E-01	1.23E-01
0.087	0.120926	0.142532	1.18E-01	1.13E-01	1.18E-01	1.39E-01	1.19E-01

0.089	0.116896	0.121264	1.14E-01	1.09E-01	1.14E-01	1.18E-01	1.15E-01
0.091	0.112866	0.101841	1.10E-01	1.05E-01	1.10E-01	9.87E-02	1.12E-01
0.087	0.108836	0.084266	1.06E-01	1.00E-01	1.06E-01	8.11E-02	1.08E-01
0.056	0.104806	0.068537	1.02E-01	9.39E-02	1.02E-01	6.54E-02	1.04E-01
0.426	0.345246	0.299707	3.43E-01	3.08E-01	3.49E-01	3.03E-01	3.49E-01
0.427	0.341677	0.303093	3.39E-01	3.06E-01	3.45E-01	3.06E-01	3.45E-01
0.426	0.338109	0.308324	3.36E-01	3.03E-01	3.41E-01	3.12E-01	3.41E-01
0.425	0.33454	0.315403	3.32E-01	2.99E-01	3.38E-01	3.19E-01	3.38E-01
0.421	0.330972	0.324327	3.29E-01	2.94E-01	3.34E-01	3.28E-01	3.34E-01
0.414	0.327403	0.335099	3.25E-01	2.88E-01	3.31E-01	3.38E-01	3.30E-01
0.349	0.317025	0.293662	3.15E-01	3.05E-01	3.20E-01	2.97E-01	3.21E-01
0.343	0.313399	0.293735	3.11E-01	3.03E-01	3.17E-01	2.97E-01	3.17E-01
0.341	0.309773	0.295654	3.07E-01	3.00E-01	3.13E-01	2.99E-01	3.13E-01
0.339	0.306147	0.29942	3.04E-01	2.96E-01	3.10E-01	3.03E-01	3.09E-01
0.345	0.302521	0.305032	3.00E-01	2.91E-01	3.06E-01	3.08E-01	3.05E-01
0.319	0.298895	0.312491	2.96E-01	2.85E-01	3.02E-01	3.16E-01	3.02E-01
0.281	0.288805	0.284361	2.86E-01	2.96E-01	2.92E-01	2.88E-01	2.92E-01
0.282	0.285121	0.281122	2.83E-01	2.94E-01	2.88E-01	2.84E-01	2.88E-01
0.281	0.281437	0.279728	2.79E-01	2.91E-01	2.85E-01	2.83E-01	2.85E-01
0.279	0.277754	0.280181	2.75E-01	2.87E-01	2.81E-01	2.84E-01	2.81E-01
0.281	0.27407	0.282481	2.72E-01	2.82E-01	2.77E-01	2.86E-01	2.77E-01
0.241	0.270386	0.286627	2.68E-01	2.75E-01	2.74E-01	2.90E-01	2.73E-01
0.21	0.232364	0.255991	2.30E-01	2.59E-01	2.36E-01	2.59E-01	2.35E-01
0.211	0.228565	0.246126	2.26E-01	2.57E-01	2.32E-01	2.49E-01	2.32E-01
0.212	0.224766	0.238107	2.22E-01	2.54E-01	2.28E-01	2.41E-01	2.28E-01
0.213	0.220967	0.231935	2.19E-01	2.49E-01	2.24E-01	2.35E-01	2.24E-01
0.211	0.217168	0.22761	2.15E-01	2.44E-01	2.21E-01	2.31E-01	2.20E-01
0.178	0.213368	0.225131	2.11E-01	2.38E-01	2.17E-01	2.29E-01	2.17E-01
0.16	0.175923	0.214595	1.73E-01	1.96E-01	1.79E-01	2.18E-01	1.79E-01
0.159	0.172009	0.198105	1.70E-01	1.94E-01	1.75E-01	2.01E-01	1.75E-01
0.156	0.168094	0.183461	1.66E-01	1.91E-01	1.71E-01	1.87E-01	1.71E-01
0.158	0.16418	0.170664	1.62E-01	1.87E-01	1.68E-01	1.74E-01	1.67E-01
0.159	0.160265	0.159714	1.58E-01	1.82E-01	1.64E-01	1.63E-01	1.64E-01
0.127	0.156351	0.15061	1.54E-01	1.76E-01	1.60E-01	1.54E-01	1.60E-01
0.105	0.119483	0.160175	1.17E-01	1.09E-01	1.23E-01	1.64E-01	1.22E-01
0.101	0.115453	0.137059	1.13E-01	1.07E-01	1.19E-01	1.40E-01	1.18E-01
0.098	0.111423	0.115791	1.09E-01	1.04E-01	1.15E-01	1.19E-01	1.14E-01
0.099	0.107393	0.096369	1.05E-01	9.99E-02	1.11E-01	9.97E-02	1.11E-01
0.097	0.103363	0.078793	1.01E-01	9.47E-02	1.07E-01	8.22E-02	1.07E-01
0.063	0.099333	0.063064	9.69E-02	8.85E-02	1.03E-01	6.64E-02	1.03E-01
0.159	0.231606	0.186068	2.38E-01	1.95E-01	2.41E-01	1.95E-01	2.31E-01
0.159	0.228038	0.189453	2.35E-01	1.93E-01	2.37E-01	1.99E-01	2.27E-01
0.161	0.22447	0.194685	2.31E-01	1.90E-01	2.34E-01	2.04E-01	2.24E-01
0.159	0.220901	0.201764	2.28E-01	1.86E-01	2.30E-01	2.11E-01	2.20E-01
0.158	0.217333	0.210688	2.24E-01	1.80E-01	2.27E-01	2.20E-01	2.16E-01
0.158	0.213764	0.22146	2.21E-01	1.74E-01	2.23E-01	2.31E-01	2.12E-01
0.15	0.203386	0.180023	2.10E-01	1.92E-01	2.13E-01	1.89E-01	2.03E-01
0.149	0.19976	0.180096	2.07E-01	1.90E-01	2.09E-01	1.89E-01	1.99E-01

0.148	0.196134	0.182015	2.03E-01	1.87E-01	2.05E-01	1.91E-01	1.95E-01
0.149	0.192508	0.185781	1.99E-01	1.82E-01	2.02E-01	1.95E-01	1.92E-01
0.151	0.188882	0.191393	1.96E-01	1.77E-01	1.98E-01	2.01E-01	1.88E-01
0.145	0.185256	0.198852	1.92E-01	1.71E-01	1.95E-01	2.08E-01	1.84E-01
0.128	0.175166	0.170722	1.82E-01	1.82E-01	1.85E-01	1.80E-01	1.75E-01
0.129	0.171482	0.167482	1.78E-01	1.80E-01	1.81E-01	1.77E-01	1.71E-01
0.128	0.167798	0.166089	1.75E-01	1.77E-01	1.77E-01	1.75E-01	1.67E-01
0.127	0.164114	0.166542	1.71E-01	1.73E-01	1.73E-01	1.76E-01	1.63E-01
0.125	0.160431	0.168842	1.67E-01	1.68E-01	1.70E-01	1.78E-01	1.59E-01
0.112	0.156747	0.172988	1.64E-01	1.62E-01	1.66E-01	1.82E-01	1.56E-01
0.101	0.118725	0.142351	1.26E-01	1.45E-01	1.28E-01	1.52E-01	1.18E-01
0.102	0.114926	0.132487	1.22E-01	1.43E-01	1.24E-01	1.42E-01	1.14E-01
0.103	0.111127	0.124468	1.18E-01	1.40E-01	1.20E-01	1.34E-01	1.10E-01
0.099	0.107328	0.118296	1.14E-01	1.36E-01	1.17E-01	1.28E-01	1.06E-01
0.101	0.103528	0.113971	1.10E-01	1.31E-01	1.13E-01	1.23E-01	1.03E-01
0.075	0.099729	0.111492	1.07E-01	1.24E-01	1.09E-01	1.21E-01	9.90E-02
0.074	0.062284	0.100956	6.91E-02	8.26E-02	7.16E-02	1.10E-01	6.11E-02
0.073	0.05837	0.084466	6.52E-02	8.06E-02	6.77E-02	9.38E-02	5.73E-02
0.071	0.054455	0.069822	6.13E-02	7.76E-02	6.38E-02	7.92E-02	5.35E-02
0.071	0.050541	0.057025	5.74E-02	7.35E-02	5.99E-02	6.64E-02	4.98E-02
0.069	0.046626	0.046075	5.35E-02	6.83E-02	5.60E-02	5.54E-02	4.60E-02
0.051	0.042712	0.036971	4.96E-02	6.20E-02	5.21E-02	4.63E-02	4.22E-02
0.049	0.005844	0.046535	1.27E-02	-4.62E-03	1.52E-02	5.59E-02	4.35E-03
0.046	0.001814	0.02342	8.67E-03	-6.59E-03	1.12E-02	3.28E-02	5.77E-04
0.043	-0.00222	0.002152	4.64E-03	-9.63E-03	7.14E-03	1.15E-02	-3.19E-03
0.041	-0.00625	-0.01727	6.13E-04	-1.37E-02	3.11E-03	-7.92E-03	-6.96E-03
0.039	-0.01028	-0.03485	-3.42E-03	-1.89E-02	-9.24E-04	-2.55E-02	-1.07E-02
0.027	-0.01431	-0.05058	-7.45E-03	-2.52E-02	-4.95E-03	-4.12E-02	-1.45E-02
0.235	0.257696	0.212158	2.65E-01	2.21E-01	2.56E-01	2.10E-01	2.58E-01
0.231	0.254128	0.215543	2.61E-01	2.19E-01	2.52E-01	2.13E-01	2.55E-01
0.235	0.25056	0.220775	2.57E-01	2.16E-01	2.48E-01	2.19E-01	2.51E-01
0.232	0.246991	0.227853	2.54E-01	2.12E-01	2.45E-01	2.26E-01	2.47E-01
0.231	0.243423	0.236778	2.50E-01	2.07E-01	2.41E-01	2.35E-01	2.43E-01
0.214	0.239854	0.24755	2.47E-01	2.00E-01	2.38E-01	2.45E-01	2.40E-01
0.208	0.229476	0.206113	2.36E-01	2.18E-01	2.27E-01	2.04E-01	2.30E-01
0.207	0.22585	0.206186	2.33E-01	2.16E-01	2.24E-01	2.04E-01	2.26E-01
0.206	0.222224	0.208105	2.29E-01	2.13E-01	2.20E-01	2.06E-01	2.22E-01
0.208	0.218598	0.211871	2.25E-01	2.09E-01	2.16E-01	2.10E-01	2.19E-01
0.205	0.214972	0.217483	2.22E-01	2.03E-01	2.13E-01	2.15E-01	2.15E-01
0.185	0.211345	0.224942	2.18E-01	1.97E-01	2.09E-01	2.23E-01	2.11E-01
0.169	0.201256	0.196812	2.08E-01	2.08E-01	1.99E-01	1.95E-01	2.02E-01
0.172	0.197572	0.193572	2.04E-01	2.06E-01	1.95E-01	1.91E-01	1.98E-01
0.173	0.193888	0.192179	2.01E-01	2.03E-01	1.92E-01	1.90E-01	1.94E-01
0.171	0.190204	0.192632	1.97E-01	1.99E-01	1.88E-01	1.90E-01	1.90E-01
0.169	0.186521	0.194932	1.93E-01	1.94E-01	1.84E-01	1.93E-01	1.87E-01
0.151	0.182837	0.199078	1.90E-01	1.88E-01	1.81E-01	1.97E-01	1.83E-01
0.141	0.144815	0.168441	1.52E-01	1.71E-01	1.43E-01	1.66E-01	1.45E-01
0.141	0.141016	0.158576	1.48E-01	1.69E-01	1.39E-01	1.56E-01	1.41E-01

0.142	0.137217	0.150558	1.44E-01	1.66E-01	1.35E-01	1.48E-01	1.37E-01
0.139	0.133418	0.144386	1.40E-01	1.62E-01	1.31E-01	1.42E-01	1.34E-01
0.145	0.129618	0.140061	1.36E-01	1.57E-01	1.27E-01	1.38E-01	1.30E-01
0.122	0.125819	0.137582	1.33E-01	1.50E-01	1.24E-01	1.35E-01	1.26E-01
0.121	0.088374	0.127046	9.52E-02	1.09E-01	8.62E-02	1.25E-01	8.82E-02
0.121	0.08446	0.110556	9.13E-02	1.07E-01	8.23E-02	1.08E-01	8.44E-02
0.121	0.080545	0.095912	8.74E-02	1.04E-01	7.84E-02	9.38E-02	8.06E-02
0.123	0.076631	0.083115	8.35E-02	9.96E-02	7.45E-02	8.10E-02	7.69E-02
0.121	0.072716	0.072165	7.96E-02	9.44E-02	7.06E-02	7.00E-02	7.31E-02
0.076	0.068802	0.063061	7.57E-02	8.81E-02	6.67E-02	6.09E-02	6.93E-02
0.082	0.031934	0.072625	3.88E-02	2.15E-02	2.98E-02	7.05E-02	3.14E-02
0.081	0.027904	0.04951	3.48E-02	1.95E-02	2.58E-02	4.74E-02	2.77E-02
0.079	0.023874	0.028242	3.07E-02	1.65E-02	2.17E-02	2.61E-02	2.39E-02
0.081	0.019844	0.008819	2.67E-02	1.24E-02	1.77E-02	6.68E-03	2.01E-02
0.076	0.015814	-0.00876	2.27E-02	7.17E-03	1.37E-02	-1.09E-02	1.64E-02
0.055	0.011784	-0.02449	1.86E-02	9.17E-04	9.64E-03	-2.66E-02	1.26E-02
0.32	0.309876	0.264338	3.17E-01	2.73E-01	3.14E-01	2.68E-01	3.13E-01
0.326	0.306308	0.267723	3.13E-01	2.71E-01	3.10E-01	2.72E-01	3.09E-01
0.325	0.302739	0.272955	3.10E-01	2.68E-01	3.07E-01	2.77E-01	3.05E-01
0.325	0.299171	0.280033	3.06E-01	2.64E-01	3.03E-01	2.84E-01	3.01E-01
0.321	0.295603	0.288958	3.02E-01	2.59E-01	3.00E-01	2.93E-01	2.97E-01
0.308	0.292034	0.29973	2.99E-01	2.52E-01	2.96E-01	3.04E-01	2.94E-01
0.291	0.281656	0.258293	2.89E-01	2.70E-01	2.86E-01	2.62E-01	2.84E-01
0.292	0.27803	0.258366	2.85E-01	2.68E-01	2.82E-01	2.62E-01	2.80E-01
0.289	0.274404	0.260285	2.81E-01	2.65E-01	2.78E-01	2.64E-01	2.77E-01
0.29	0.270778	0.264051	2.78E-01	2.61E-01	2.75E-01	2.68E-01	2.73E-01
0.286	0.267151	0.269663	2.74E-01	2.56E-01	2.71E-01	2.74E-01	2.69E-01
0.251	0.263525	0.277122	2.70E-01	2.49E-01	2.68E-01	2.81E-01	2.65E-01
0.215	0.253436	0.248992	2.60E-01	2.61E-01	2.57E-01	2.53E-01	2.56E-01
0.216	0.249752	0.245752	2.57E-01	2.59E-01	2.54E-01	2.50E-01	2.52E-01
0.217	0.246068	0.244359	2.53E-01	2.56E-01	2.50E-01	2.48E-01	2.48E-01
0.218	0.242384	0.244812	2.49E-01	2.51E-01	2.46E-01	2.49E-01	2.45E-01
0.215	0.2387	0.247112	2.46E-01	2.46E-01	2.43E-01	2.51E-01	2.41E-01
0.183	0.235017	0.251258	2.42E-01	2.40E-01	2.39E-01	2.55E-01	2.37E-01
0.157	0.196995	0.220621	2.04E-01	2.23E-01	2.01E-01	2.25E-01	1.99E-01
0.158	0.193196	0.210756	2.00E-01	2.21E-01	1.97E-01	2.15E-01	1.95E-01
0.157	0.189397	0.202738	1.96E-01	2.18E-01	1.93E-01	2.07E-01	1.92E-01
0.156	0.185597	0.196566	1.92E-01	2.14E-01	1.90E-01	2.01E-01	1.88E-01
0.157	0.181798	0.192241	1.89E-01	2.09E-01	1.86E-01	1.96E-01	1.84E-01
0.129	0.177999	0.189762	1.85E-01	2.03E-01	1.82E-01	1.94E-01	1.80E-01
0.115	0.140554	0.179226	1.47E-01	1.61E-01	1.45E-01	1.83E-01	1.42E-01
0.115	0.13664	0.162736	1.44E-01	1.59E-01	1.41E-01	1.67E-01	1.39E-01
0.116	0.132725	0.148092	1.40E-01	1.56E-01	1.37E-01	1.52E-01	1.35E-01
0.115	0.128811	0.135295	1.36E-01	1.52E-01	1.33E-01	1.39E-01	1.31E-01
0.116	0.124896	0.124345	1.32E-01	1.47E-01	1.29E-01	1.28E-01	1.27E-01
0.089	0.120982	0.115241	1.28E-01	1.40E-01	1.25E-01	1.19E-01	1.24E-01
0.073	0.084113	0.124805	9.10E-02	7.36E-02	8.82E-02	1.29E-01	8.57E-02
0.072	0.080084	0.10169	8.69E-02	7.17E-02	8.41E-02	1.06E-01	8.19E-02

0.071	0.076054	0.080421	8.29E-02	6.86E-02	8.01E-02	8.45E-02	7.81E-02
0.072	0.072024	0.060999	7.89E-02	6.45E-02	7.61E-02	6.51E-02	7.43E-02
0.069	0.067994	0.043424	7.49E-02	5.94E-02	7.20E-02	4.75E-02	7.06E-02
0.048	0.063964	0.027694	7.08E-02	5.31E-02	6.80E-02	3.17E-02	6.68E-02
0.227	0.247489	0.201951	2.54E-01	2.11E-01	2.50E-01	2.04E-01	2.48E-01
0.225	0.243921	0.205336	2.51E-01	2.09E-01	2.46E-01	2.07E-01	2.44E-01
0.226	0.240353	0.210568	2.47E-01	2.06E-01	2.43E-01	2.13E-01	2.40E-01
0.227	0.236784	0.217647	2.44E-01	2.01E-01	2.39E-01	2.20E-01	2.37E-01
0.225	0.233216	0.226571	2.40E-01	1.96E-01	2.35E-01	2.29E-01	2.33E-01
0.221	0.229647	0.237343	2.37E-01	1.90E-01	2.32E-01	2.39E-01	2.29E-01
0.202	0.219269	0.195906	2.26E-01	2.07E-01	2.21E-01	1.98E-01	2.20E-01
0.201	0.215643	0.195979	2.23E-01	2.06E-01	2.18E-01	1.98E-01	2.16E-01
0.203	0.212017	0.197898	2.19E-01	2.02E-01	2.14E-01	2.00E-01	2.12E-01
0.199	0.208391	0.201664	2.15E-01	1.98E-01	2.11E-01	2.04E-01	2.08E-01
0.195	0.204765	0.207276	2.12E-01	1.93E-01	2.07E-01	2.09E-01	2.04E-01
0.171	0.201139	0.214735	2.08E-01	1.87E-01	2.03E-01	2.17E-01	2.01E-01
0.185	0.191049	0.186605	1.98E-01	1.98E-01	1.93E-01	1.89E-01	1.91E-01
0.186	0.187365	0.183365	1.94E-01	1.96E-01	1.90E-01	1.86E-01	1.87E-01
0.187	0.183681	0.181972	1.91E-01	1.93E-01	1.86E-01	1.84E-01	1.84E-01
0.189	0.179997	0.182425	1.87E-01	1.89E-01	1.82E-01	1.85E-01	1.80E-01
0.183	0.176314	0.184725	1.83E-01	1.84E-01	1.78E-01	1.87E-01	1.76E-01
0.151	0.17263	0.188871	1.79E-01	1.78E-01	1.75E-01	1.91E-01	1.72E-01
0.132	0.134608	0.158234	1.41E-01	1.61E-01	1.37E-01	1.60E-01	1.34E-01
0.133	0.130809	0.148369	1.38E-01	1.59E-01	1.33E-01	1.51E-01	1.31E-01
0.132	0.12701	0.140351	1.34E-01	1.56E-01	1.29E-01	1.43E-01	1.27E-01
0.133	0.123211	0.134179	1.30E-01	1.52E-01	1.25E-01	1.36E-01	1.23E-01
0.135	0.119411	0.129854	1.26E-01	1.46E-01	1.22E-01	1.32E-01	1.19E-01
0.114	0.115612	0.127375	1.22E-01	1.40E-01	1.18E-01	1.30E-01	1.16E-01
0.108	0.078167	0.116839	8.50E-02	9.85E-02	8.03E-02	1.19E-01	7.77E-02
0.107	0.074253	0.100349	8.11E-02	9.65E-02	7.64E-02	1.03E-01	7.39E-02
0.106	0.070338	0.085705	7.72E-02	9.35E-02	7.25E-02	8.79E-02	7.01E-02
0.105	0.066424	0.072908	7.33E-02	8.94E-02	6.86E-02	7.51E-02	6.64E-02
0.104	0.062509	0.061958	6.94E-02	8.42E-02	6.47E-02	6.41E-02	6.26E-02
0.078	0.058595	0.052854	6.55E-02	7.79E-02	6.08E-02	5.50E-02	5.88E-02
0.081	0.021727	0.062418	2.86E-02	1.13E-02	2.39E-02	6.46E-02	2.10E-02
0.083	0.017697	0.039303	2.46E-02	9.29E-03	1.99E-02	4.15E-02	1.72E-02
0.085	0.013667	0.018035	2.05E-02	6.26E-03	1.58E-02	2.02E-02	1.34E-02
0.082	0.009637	-0.00139	1.65E-02	2.15E-03	1.18E-02	7.69E-04	9.64E-03
0.079	0.005607	-0.01896	1.25E-02	-3.04E-03	7.76E-03	-1.68E-02	5.87E-03
0.048	0.001577	-0.03469	8.44E-03	-9.29E-03	3.73E-03	-3.25E-02	2.10E-03
0.318	0.273579	0.228041	2.80E-01	2.37E-01	2.64E-01	2.19E-01	2.74E-01
0.315	0.270011	0.231426	2.77E-01	2.35E-01	2.61E-01	2.22E-01	2.70E-01
0.315	0.266442	0.236658	2.73E-01	2.32E-01	2.57E-01	2.27E-01	2.66E-01
0.315	0.262874	0.243736	2.70E-01	2.28E-01	2.54E-01	2.34E-01	2.62E-01
0.318	0.259306	0.252661	2.66E-01	2.22E-01	2.50E-01	2.43E-01	2.58E-01
0.309	0.255737	0.263433	2.63E-01	2.16E-01	2.46E-01	2.54E-01	2.55E-01
0.263	0.245359	0.221996	2.52E-01	2.34E-01	2.36E-01	2.13E-01	2.45E-01
0.261	0.241733	0.222069	2.49E-01	2.32E-01	2.32E-01	2.13E-01	2.41E-01

0.26	0.238107	0.223988	2.45E-01	2.29E-01	2.29E-01	2.15E-01	2.38E-01
0.259	0.234481	0.227754	2.41E-01	2.24E-01	2.25E-01	2.18E-01	2.34E-01
0.257	0.230855	0.233366	2.38E-01	2.19E-01	2.22E-01	2.24E-01	2.30E-01
0.241	0.227228	0.240825	2.34E-01	2.13E-01	2.18E-01	2.31E-01	2.26E-01
0.221	0.217139	0.212695	2.24E-01	2.24E-01	2.08E-01	2.03E-01	2.17E-01
0.22	0.213455	0.209455	2.20E-01	2.22E-01	2.04E-01	2.00E-01	2.13E-01
0.221	0.209771	0.208062	2.17E-01	2.19E-01	2.00E-01	1.99E-01	2.09E-01
0.22	0.206087	0.208515	2.13E-01	2.15E-01	1.97E-01	1.99E-01	2.05E-01
0.219	0.202403	0.210815	2.09E-01	2.10E-01	1.93E-01	2.01E-01	2.02E-01
0.187	0.19872	0.214961	2.06E-01	2.04E-01	1.89E-01	2.06E-01	1.98E-01
0.161	0.160698	0.184324	1.68E-01	1.87E-01	1.51E-01	1.75E-01	1.60E-01
0.162	0.156899	0.174459	1.64E-01	1.85E-01	1.48E-01	1.65E-01	1.56E-01
0.161	0.1531	0.166441	1.60E-01	1.82E-01	1.44E-01	1.57E-01	1.53E-01
0.161	0.149301	0.160269	1.56E-01	1.78E-01	1.40E-01	1.51E-01	1.49E-01
0.162	0.145501	0.155944	1.52E-01	1.73E-01	1.36E-01	1.47E-01	1.45E-01
0.131	0.141702	0.153465	1.49E-01	1.66E-01	1.32E-01	1.44E-01	1.41E-01
0.118	0.104257	0.142929	1.11E-01	1.25E-01	9.49E-02	1.34E-01	1.03E-01
0.118	0.100343	0.126439	1.07E-01	1.23E-01	9.10E-02	1.17E-01	9.96E-02
0.121	0.096428	0.111795	1.03E-01	1.20E-01	8.71E-02	1.02E-01	9.58E-02
0.12	0.092514	0.098998	9.94E-02	1.15E-01	8.32E-02	8.97E-02	9.20E-02
0.118	0.088599	0.088048	9.55E-02	1.10E-01	7.93E-02	7.87E-02	8.82E-02
0.096	0.084685	0.078944	9.16E-02	1.04E-01	7.53E-02	6.96E-02	8.45E-02
0.073	0.047817	0.088508	5.47E-02	3.73E-02	3.85E-02	7.92E-02	4.66E-02
0.072	0.043787	0.065393	5.07E-02	3.54E-02	3.44E-02	5.61E-02	4.28E-02
0.073	0.039757	0.044124	4.66E-02	3.23E-02	3.04E-02	3.48E-02	3.91E-02
0.072	0.035727	0.024702	4.26E-02	2.82E-02	2.64E-02	1.54E-02	3.53E-02
0.071	0.031697	0.007127	3.86E-02	2.31E-02	2.24E-02	-2.21E-03	3.15E-02
0.048	0.027667	-0.0086	3.45E-02	1.68E-02	1.83E-02	-1.79E-02	2.77E-02
0.43	0.325759	0.280221	3.33E-01	2.89E-01	3.23E-01	2.77E-01	3.25E-01
0.429	0.322191	0.283606	3.29E-01	2.87E-01	3.19E-01	2.80E-01	3.21E-01
0.428	0.318622	0.288838	3.25E-01	2.84E-01	3.15E-01	2.86E-01	3.17E-01
0.427	0.315054	0.295916	3.22E-01	2.80E-01	3.12E-01	2.93E-01	3.14E-01
0.426	0.311486	0.304841	3.18E-01	2.75E-01	3.08E-01	3.02E-01	3.10E-01
0.401	0.307917	0.315613	3.15E-01	2.68E-01	3.05E-01	3.12E-01	3.06E-01
0.339	0.297539	0.274176	3.04E-01	2.86E-01	2.94E-01	2.71E-01	2.96E-01
0.34	0.293913	0.274249	3.01E-01	2.84E-01	2.91E-01	2.71E-01	2.93E-01
0.338	0.290287	0.276168	2.97E-01	2.81E-01	2.87E-01	2.73E-01	2.89E-01
0.337	0.286661	0.279934	2.94E-01	2.77E-01	2.84E-01	2.77E-01	2.85E-01
0.335	0.283034	0.285546	2.90E-01	2.71E-01	2.80E-01	2.82E-01	2.81E-01
0.302	0.279408	0.293005	2.86E-01	2.65E-01	2.76E-01	2.90E-01	2.78E-01
0.275	0.269319	0.264875	2.76E-01	2.76E-01	2.66E-01	2.62E-01	2.68E-01
0.274	0.265635	0.261635	2.73E-01	2.74E-01	2.62E-01	2.58E-01	2.64E-01
0.273	0.261951	0.260242	2.69E-01	2.71E-01	2.59E-01	2.57E-01	2.61E-01
0.27	0.258267	0.260695	2.65E-01	2.67E-01	2.55E-01	2.58E-01	2.57E-01
0.27	0.254583	0.262995	2.61E-01	2.62E-01	2.51E-01	2.60E-01	2.53E-01
0.252	0.2509	0.267141	2.58E-01	2.56E-01	2.48E-01	2.64E-01	2.49E-01
0.157	0.212878	0.236504	2.20E-01	2.39E-01	2.10E-01	2.33E-01	2.11E-01
0.161	0.209079	0.226639	2.16E-01	2.37E-01	2.06E-01	2.23E-01	2.08E-01

0.159	0.20528	0.218621	2.12E-01	2.34E-01	2.02E-01	2.15E-01	2.04E-01
0.162	0.20148	0.212449	2.08E-01	2.30E-01	1.98E-01	2.09E-01	2.00E-01
0.163	0.197681	0.208124	2.05E-01	2.25E-01	1.95E-01	2.05E-01	1.96E-01
0.128	0.193882	0.205645	2.01E-01	2.18E-01	1.91E-01	2.03E-01	1.93E-01
0.122	0.156437	0.195109	1.63E-01	1.77E-01	1.53E-01	1.92E-01	1.55E-01
0.121	0.152523	0.178619	1.59E-01	1.75E-01	1.49E-01	1.75E-01	1.51E-01
0.121	0.148608	0.163975	1.55E-01	1.72E-01	1.45E-01	1.61E-01	1.47E-01
0.12	0.144694	0.151178	1.52E-01	1.68E-01	1.42E-01	1.48E-01	1.43E-01
0.12	0.140779	0.140227	1.48E-01	1.62E-01	1.38E-01	1.37E-01	1.40E-01
0.088	0.136865	0.131123	1.44E-01	1.56E-01	1.34E-01	1.28E-01	1.36E-01
0.073	0.099996	0.140688	1.07E-01	8.95E-02	9.69E-02	1.38E-01	9.79E-02
0.072	0.095967	0.117573	1.03E-01	8.76E-02	9.28E-02	1.14E-01	9.41E-02
0.071	0.091937	0.096304	9.88E-02	8.45E-02	8.88E-02	9.32E-02	9.04E-02
0.072	0.087907	0.076882	9.48E-02	8.04E-02	8.48E-02	7.37E-02	8.66E-02
0.07	0.083877	0.059307	9.07E-02	7.52E-02	8.07E-02	5.62E-02	8.28E-02
0.04	0.079847	0.043577	8.67E-02	6.90E-02	7.67E-02	4.04E-02	7.90E-02
0.411	0.320286	0.274748	3.27E-01	2.83E-01	3.24E-01	2.78E-01	3.24E-01
0.411	0.316718	0.278133	3.24E-01	2.81E-01	3.20E-01	2.82E-01	3.20E-01
0.412	0.313149	0.283365	3.20E-01	2.78E-01	3.17E-01	2.87E-01	3.16E-01
0.411	0.309581	0.290443	3.16E-01	2.74E-01	3.13E-01	2.94E-01	3.13E-01
0.412	0.306013	0.299368	3.13E-01	2.69E-01	3.09E-01	3.03E-01	3.09E-01
0.406	0.302444	0.31014	3.09E-01	2.63E-01	3.06E-01	3.14E-01	3.05E-01
0.322	0.292066	0.268703	2.99E-01	2.80E-01	2.95E-01	2.72E-01	2.96E-01
0.325	0.28844	0.268776	2.95E-01	2.78E-01	2.92E-01	2.72E-01	2.92E-01
0.321	0.284814	0.270695	2.92E-01	2.75E-01	2.88E-01	2.74E-01	2.88E-01
0.322	0.281188	0.274461	2.88E-01	2.71E-01	2.85E-01	2.78E-01	2.84E-01
0.321	0.277562	0.280073	2.84E-01	2.66E-01	2.81E-01	2.83E-01	2.81E-01
0.277	0.273935	0.287532	2.81E-01	2.60E-01	2.77E-01	2.91E-01	2.77E-01
0.249	0.263846	0.259402	2.71E-01	2.71E-01	2.67E-01	2.63E-01	2.67E-01
0.248	0.260162	0.256162	2.67E-01	2.69E-01	2.64E-01	2.60E-01	2.63E-01
0.247	0.256478	0.254769	2.63E-01	2.66E-01	2.60E-01	2.58E-01	2.60E-01
0.246	0.252794	0.255222	2.60E-01	2.62E-01	2.56E-01	2.59E-01	2.56E-01
0.241	0.24911	0.257522	2.56E-01	2.57E-01	2.52E-01	2.61E-01	2.52E-01
0.211	0.245427	0.261668	2.52E-01	2.50E-01	2.49E-01	2.65E-01	2.48E-01
0.178	0.207405	0.231031	2.14E-01	2.34E-01	2.11E-01	2.34E-01	2.11E-01
0.175	0.203606	0.221166	2.11E-01	2.32E-01	2.07E-01	2.25E-01	2.07E-01
0.174	0.199807	0.213148	2.07E-01	2.29E-01	2.03E-01	2.17E-01	2.03E-01
0.175	0.196008	0.206976	2.03E-01	2.24E-01	1.99E-01	2.10E-01	1.99E-01
0.176	0.192208	0.202651	1.99E-01	2.19E-01	1.96E-01	2.06E-01	1.95E-01
0.144	0.188409	0.200172	1.95E-01	2.13E-01	1.92E-01	2.04E-01	1.92E-01
0.149	0.150964	0.189636	1.58E-01	1.71E-01	1.54E-01	1.93E-01	1.54E-01
0.146	0.14705	0.173146	1.54E-01	1.69E-01	1.50E-01	1.77E-01	1.50E-01
0.143	0.143135	0.158502	1.50E-01	1.66E-01	1.47E-01	1.62E-01	1.46E-01
0.141	0.139221	0.145705	1.46E-01	1.62E-01	1.43E-01	1.49E-01	1.42E-01
0.139	0.135306	0.134755	1.42E-01	1.57E-01	1.39E-01	1.38E-01	1.39E-01
0.112	0.131392	0.125651	1.38E-01	1.51E-01	1.35E-01	1.29E-01	1.35E-01
0.091	0.094524	0.135215	1.01E-01	8.41E-02	9.79E-02	1.39E-01	9.71E-02
0.092	0.090494	0.1121	9.74E-02	8.21E-02	9.39E-02	1.15E-01	9.33E-02

0.089	0.086464	0.090831	9.34E-02	7.91E-02	8.98E-02	9.42E-02	8.95E-02
0.087	0.082434	0.071409	8.93E-02	7.49E-02	8.58E-02	7.48E-02	8.57E-02
0.085	0.078404	0.053834	8.53E-02	6.98E-02	8.18E-02	5.72E-02	8.20E-02
0.059	0.074374	0.038105	8.13E-02	6.35E-02	7.78E-02	4.15E-02	7.82E-02
0.156	0.214967	0.169429	2.11E-01	1.78E-01	2.24E-01	1.79E-01	2.15E-01
0.158	0.211399	0.172814	2.07E-01	1.76E-01	2.21E-01	1.82E-01	2.11E-01
0.158	0.20783	0.178046	2.04E-01	1.73E-01	2.17E-01	1.87E-01	2.07E-01
0.157	0.204262	0.185124	2.00E-01	1.69E-01	2.14E-01	1.94E-01	2.03E-01
0.157	0.200693	0.194049	1.96E-01	1.64E-01	2.10E-01	2.03E-01	2.00E-01
0.145	0.197125	0.20482	1.93E-01	1.58E-01	2.06E-01	2.14E-01	1.96E-01
0.127	0.186747	0.163384	1.82E-01	1.75E-01	1.96E-01	1.73E-01	1.86E-01
0.128	0.183121	0.163457	1.79E-01	1.73E-01	1.92E-01	1.73E-01	1.82E-01
0.126	0.179494	0.165376	1.75E-01	1.70E-01	1.89E-01	1.75E-01	1.79E-01
0.125	0.175868	0.169142	1.72E-01	1.66E-01	1.85E-01	1.78E-01	1.75E-01
0.126	0.172242	0.174754	1.68E-01	1.61E-01	1.82E-01	1.84E-01	1.71E-01
0.102	0.168616	0.182213	1.64E-01	1.54E-01	1.78E-01	1.92E-01	1.67E-01
0.106	0.158526	0.154083	1.54E-01	1.66E-01	1.68E-01	1.63E-01	1.58E-01
0.105	0.154842	0.150843	1.51E-01	1.64E-01	1.64E-01	1.60E-01	1.54E-01
0.105	0.151159	0.14945	1.47E-01	1.61E-01	1.61E-01	1.59E-01	1.50E-01
0.106	0.147475	0.149903	1.43E-01	1.56E-01	1.57E-01	1.59E-01	1.47E-01
0.104	0.143791	0.152203	1.40E-01	1.51E-01	1.53E-01	1.62E-01	1.43E-01
0.075	0.140107	0.156349	1.36E-01	1.45E-01	1.49E-01	1.66E-01	1.39E-01
0.078	0.102086	0.125712	9.78E-02	1.28E-01	1.11E-01	1.35E-01	1.01E-01
0.079	0.098286	0.115847	9.40E-02	1.26E-01	1.08E-01	1.25E-01	9.74E-02
0.078	0.094487	0.107829	9.02E-02	1.23E-01	1.04E-01	1.17E-01	9.36E-02
0.079	0.090688	0.101657	8.64E-02	1.19E-01	1.00E-01	1.11E-01	8.99E-02
0.078	0.086889	0.097331	8.26E-02	1.14E-01	9.62E-02	1.07E-01	8.61E-02
0.049	0.08309	0.094852	7.88E-02	1.08E-01	9.24E-02	1.04E-01	8.23E-02
0.044	0.045645	0.084316	4.14E-02	6.59E-02	5.50E-02	9.37E-02	4.44E-02
0.043	0.04173	0.067826	3.75E-02	6.40E-02	5.11E-02	7.72E-02	4.07E-02
0.042	0.037816	0.053183	3.35E-02	6.09E-02	4.72E-02	6.25E-02	3.69E-02
0.043	0.033901	0.040386	2.96E-02	5.68E-02	4.33E-02	4.97E-02	3.31E-02
0.041	0.029987	0.029435	2.57E-02	5.16E-02	3.93E-02	3.88E-02	2.94E-02
0.021	0.026072	0.020331	2.18E-02	4.54E-02	3.54E-02	2.97E-02	2.56E-02
0.019	-0.0108	0.029896	-1.51E-02	-2.13E-02	-1.44E-03	3.93E-02	-1.23E-02
0.018	-0.01483	0.006781	-1.91E-02	-2.32E-02	-5.47E-03	1.61E-02	-1.61E-02
0.017	-0.01886	-0.01449	-2.31E-02	-2.63E-02	-9.50E-03	-5.13E-03	-1.98E-02
0.015	-0.02289	-0.03391	-2.72E-02	-3.04E-02	-1.35E-02	-2.46E-02	-2.36E-02
0.015	-0.02692	-0.05149	-3.12E-02	-3.56E-02	-1.76E-02	-4.21E-02	-2.74E-02
0.003	-0.03095	-0.06721	-3.52E-02	-4.18E-02	-2.16E-02	-5.79E-02	-3.11E-02
0.227	0.241057	0.195519	2.37E-01	2.04E-01	2.39E-01	1.93E-01	2.42E-01
0.225	0.237488	0.198904	2.33E-01	2.02E-01	2.35E-01	1.97E-01	2.38E-01
0.228	0.23392	0.204136	2.30E-01	1.99E-01	2.32E-01	2.02E-01	2.34E-01
0.226	0.230352	0.211214	2.26E-01	1.95E-01	2.28E-01	2.09E-01	2.30E-01
0.225	0.226783	0.220139	2.23E-01	1.90E-01	2.25E-01	2.18E-01	2.27E-01
0.208	0.223215	0.23091	2.19E-01	1.84E-01	2.21E-01	2.29E-01	2.23E-01
0.183	0.212837	0.189474	2.09E-01	2.01E-01	2.11E-01	1.87E-01	2.13E-01
0.182	0.20921	0.189546	2.05E-01	1.99E-01	2.07E-01	1.87E-01	2.10E-01

0.181	0.205584	0.191466	2.01E-01	1.96E-01	2.03E-01	1.89E-01	2.06E-01
0.183	0.201958	0.195231	1.98E-01	1.92E-01	2.00E-01	1.93E-01	2.02E-01
0.181	0.198332	0.200844	1.94E-01	1.87E-01	1.96E-01	1.99E-01	1.98E-01
0.165	0.194706	0.208303	1.90E-01	1.80E-01	1.93E-01	2.06E-01	1.95E-01
0.151	0.184616	0.180173	1.80E-01	1.92E-01	1.82E-01	1.78E-01	1.85E-01
0.15	0.180932	0.176933	1.77E-01	1.90E-01	1.79E-01	1.75E-01	1.81E-01
0.151	0.177249	0.17554	1.73E-01	1.87E-01	1.75E-01	1.73E-01	1.77E-01
0.149	0.173565	0.175993	1.69E-01	1.83E-01	1.71E-01	1.74E-01	1.74E-01
0.15	0.169881	0.178292	1.66E-01	1.77E-01	1.68E-01	1.76E-01	1.70E-01
0.126	0.166197	0.182439	1.62E-01	1.71E-01	1.64E-01	1.80E-01	1.66E-01
0.114	0.128176	0.151802	1.24E-01	1.54E-01	1.26E-01	1.50E-01	1.28E-01
0.115	0.124376	0.141937	1.20E-01	1.52E-01	1.22E-01	1.40E-01	1.24E-01
0.116	0.120577	0.133919	1.16E-01	1.49E-01	1.18E-01	1.32E-01	1.21E-01
0.117	0.116778	0.127747	1.13E-01	1.45E-01	1.15E-01	1.26E-01	1.17E-01
0.116	0.112979	0.123421	1.09E-01	1.40E-01	1.11E-01	1.21E-01	1.13E-01
0.079	0.10918	0.120942	1.05E-01	1.34E-01	1.07E-01	1.19E-01	1.09E-01
0.091	0.071735	0.110406	6.75E-02	9.20E-02	6.96E-02	1.08E-01	7.15E-02
0.092	0.06782	0.093916	6.35E-02	9.01E-02	6.57E-02	9.18E-02	6.78E-02
0.092	0.063906	0.079273	5.96E-02	8.70E-02	6.18E-02	7.71E-02	6.40E-02
0.093	0.059991	0.066476	5.57E-02	8.29E-02	5.79E-02	6.43E-02	6.02E-02
0.091	0.056077	0.055525	5.18E-02	7.77E-02	5.39E-02	5.34E-02	5.65E-02
0.053	0.052162	0.046421	4.79E-02	7.15E-02	5.00E-02	4.43E-02	5.27E-02
0.048	0.015294	0.055986	1.10E-02	4.83E-03	1.32E-02	5.38E-02	1.48E-02
0.047	0.011264	0.032871	6.99E-03	2.86E-03	9.13E-03	3.07E-02	1.10E-02
0.049	0.007234	0.011602	2.96E-03	-1.77E-04	5.10E-03	9.46E-03	7.27E-03
0.046	0.003205	-0.00782	-1.07E-03	-4.29E-03	1.07E-03	-9.96E-03	3.50E-03
0.045	-0.00083	-0.0254	-5.10E-03	-9.47E-03	-2.96E-03	-2.75E-02	-2.70E-04
0.016	-0.00486	-0.04112	-9.13E-03	-1.57E-02	-6.99E-03	-4.33E-02	-4.04E-03
0.312	0.293237	0.247698	2.89E-01	2.56E-01	2.97E-01	2.52E-01	2.96E-01
0.315	0.289668	0.251084	2.85E-01	2.54E-01	2.94E-01	2.55E-01	2.92E-01
0.313	0.2861	0.256316	2.82E-01	2.51E-01	2.90E-01	2.60E-01	2.88E-01
0.315	0.282531	0.263394	2.78E-01	2.47E-01	2.87E-01	2.67E-01	2.85E-01
0.312	0.278963	0.272319	2.75E-01	2.42E-01	2.83E-01	2.76E-01	2.81E-01
0.299	0.275395	0.28309	2.71E-01	2.36E-01	2.79E-01	2.87E-01	2.77E-01
0.275	0.265016	0.241654	2.61E-01	2.53E-01	2.69E-01	2.46E-01	2.68E-01
0.276	0.26139	0.241726	2.57E-01	2.51E-01	2.65E-01	2.46E-01	2.64E-01
0.273	0.257764	0.243646	2.53E-01	2.48E-01	2.62E-01	2.48E-01	2.60E-01
0.269	0.254138	0.247411	2.50E-01	2.44E-01	2.58E-01	2.51E-01	2.56E-01
0.266	0.250512	0.253024	2.46E-01	2.39E-01	2.55E-01	2.57E-01	2.52E-01
0.236	0.246886	0.260482	2.43E-01	2.33E-01	2.51E-01	2.65E-01	2.49E-01
0.186	0.236796	0.232353	2.33E-01	2.44E-01	2.41E-01	2.36E-01	2.39E-01
0.189	0.233112	0.229113	2.29E-01	2.42E-01	2.37E-01	2.33E-01	2.35E-01
0.188	0.229428	0.227719	2.25E-01	2.39E-01	2.33E-01	2.32E-01	2.32E-01
0.185	0.225745	0.228173	2.21E-01	2.35E-01	2.30E-01	2.32E-01	2.28E-01
0.181	0.222061	0.230472	2.18E-01	2.30E-01	2.26E-01	2.35E-01	2.24E-01
0.156	0.218377	0.234619	2.14E-01	2.23E-01	2.22E-01	2.39E-01	2.20E-01
0.133	0.180355	0.203982	1.76E-01	2.07E-01	1.84E-01	2.08E-01	1.82E-01
0.136	0.176556	0.194117	1.72E-01	2.05E-01	1.81E-01	1.98E-01	1.79E-01

0.133	0.172757	0.186098	1.68E-01	2.02E-01	1.77E-01	1.90E-01	1.75E-01
0.132	0.168958	0.179926	1.65E-01	1.97E-01	1.73E-01	1.84E-01	1.71E-01
0.133	0.165159	0.175601	1.61E-01	1.92E-01	1.69E-01	1.80E-01	1.67E-01
0.114	0.16136	0.173122	1.57E-01	1.86E-01	1.65E-01	1.77E-01	1.64E-01
0.089	0.123915	0.162586	1.20E-01	1.44E-01	1.28E-01	1.67E-01	1.26E-01
0.085	0.12	0.146096	1.16E-01	1.42E-01	1.24E-01	1.50E-01	1.22E-01
0.083	0.116086	0.131453	1.12E-01	1.39E-01	1.20E-01	1.36E-01	1.18E-01
0.081	0.112171	0.118656	1.08E-01	1.35E-01	1.16E-01	1.23E-01	1.14E-01
0.082	0.108257	0.107705	1.04E-01	1.30E-01	1.12E-01	1.12E-01	1.11E-01
0.058	0.104342	0.098601	1.00E-01	1.24E-01	1.08E-01	1.03E-01	1.07E-01
0.046	0.067474	0.108166	6.32E-02	5.70E-02	7.15E-02	1.12E-01	6.90E-02
0.045	0.063444	0.085051	5.92E-02	5.50E-02	6.75E-02	8.91E-02	6.52E-02
0.043	0.059414	0.063782	5.51E-02	5.20E-02	6.35E-02	6.78E-02	6.15E-02
0.042	0.055384	0.04436	5.11E-02	4.79E-02	5.94E-02	4.84E-02	5.77E-02
0.039	0.051354	0.026784	4.71E-02	4.27E-02	5.54E-02	3.08E-02	5.39E-02
0.018	0.047325	0.011055	4.30E-02	3.65E-02	5.14E-02	1.51E-02	5.02E-02
0.219	0.23085	0.185312	2.27E-01	1.94E-01	2.33E-01	1.87E-01	2.31E-01
0.218	0.227281	0.188697	2.23E-01	1.92E-01	2.29E-01	1.91E-01	2.27E-01
0.217	0.223713	0.193929	2.19E-01	1.89E-01	2.26E-01	1.96E-01	2.24E-01
0.215	0.220145	0.201007	2.16E-01	1.85E-01	2.22E-01	2.03E-01	2.20E-01
0.216	0.216576	0.209932	2.12E-01	1.80E-01	2.19E-01	2.12E-01	2.16E-01
0.199	0.213008	0.220703	2.09E-01	1.73E-01	2.15E-01	2.23E-01	2.12E-01
0.183	0.20263	0.179267	1.98E-01	1.91E-01	2.05E-01	1.81E-01	2.03E-01
0.185	0.199003	0.17934	1.95E-01	1.89E-01	2.01E-01	1.82E-01	1.99E-01
0.183	0.195377	0.181259	1.91E-01	1.86E-01	1.98E-01	1.83E-01	1.95E-01
0.181	0.191751	0.185025	1.87E-01	1.82E-01	1.94E-01	1.87E-01	1.92E-01
0.182	0.188125	0.190637	1.84E-01	1.77E-01	1.90E-01	1.93E-01	1.88E-01
0.163	0.184499	0.198096	1.80E-01	1.70E-01	1.87E-01	2.00E-01	1.84E-01
0.149	0.174409	0.169966	1.70E-01	1.81E-01	1.77E-01	1.72E-01	1.75E-01
0.148	0.170725	0.166726	1.66E-01	1.80E-01	1.73E-01	1.69E-01	1.71E-01
0.147	0.167042	0.165333	1.63E-01	1.76E-01	1.69E-01	1.67E-01	1.67E-01
0.148	0.163358	0.165786	1.59E-01	1.72E-01	1.66E-01	1.68E-01	1.63E-01
0.149	0.159674	0.168085	1.55E-01	1.67E-01	1.62E-01	1.70E-01	1.59E-01
0.123	0.15599	0.172232	1.52E-01	1.61E-01	1.58E-01	1.74E-01	1.56E-01
0.111	0.117969	0.141595	1.14E-01	1.44E-01	1.20E-01	1.44E-01	1.18E-01
0.112	0.114169	0.13173	1.10E-01	1.42E-01	1.16E-01	1.34E-01	1.14E-01
0.112	0.11037	0.123712	1.06E-01	1.39E-01	1.13E-01	1.26E-01	1.10E-01
0.109	0.106571	0.11754	1.02E-01	1.35E-01	1.09E-01	1.20E-01	1.06E-01
0.108	0.102772	0.113214	9.85E-02	1.30E-01	1.05E-01	1.15E-01	1.03E-01
0.071	0.098973	0.110735	9.47E-02	1.24E-01	1.01E-01	1.13E-01	9.89E-02
0.072	0.061528	0.100199	5.73E-02	8.18E-02	6.37E-02	1.02E-01	6.10E-02
0.07	0.057613	0.083709	5.33E-02	7.99E-02	5.98E-02	8.59E-02	5.73E-02
0.07	0.053699	0.069066	4.94E-02	7.68E-02	5.59E-02	7.12E-02	5.35E-02
0.071	0.049784	0.056269	4.55E-02	7.27E-02	5.19E-02	5.84E-02	4.97E-02
0.072	0.04587	0.045318	4.16E-02	6.75E-02	4.80E-02	4.75E-02	4.60E-02
0.041	0.041955	0.036214	3.77E-02	6.13E-02	4.41E-02	3.84E-02	4.22E-02
0.026	0.005087	0.045779	8.16E-04	-5.38E-03	7.25E-03	4.79E-02	4.31E-03
0.029	0.001057	0.022664	-3.21E-03	-7.35E-03	3.22E-03	2.48E-02	5.44E-04

0.028	-0.00297	0.001395	-7.24E-03	-1.04E-02	-8.11E-04	3.56E-03	-3.23E-03
0.027	-0.007	-0.01803	-1.13E-02	-1.45E-02	-4.84E-03	-1.59E-02	-7.00E-03
0.025	-0.01103	-0.0356	-1.53E-02	-1.97E-02	-8.87E-03	-3.34E-02	-1.08E-02
0.011	-0.01506	-0.05133	-1.93E-02	-2.59E-02	-1.29E-02	-4.92E-02	-1.45E-02
0.322	0.25694	0.211402	2.53E-01	2.20E-01	2.48E-01	2.02E-01	2.57E-01
0.325	0.253371	0.214787	2.49E-01	2.18E-01	2.44E-01	2.05E-01	2.53E-01
0.326	0.249803	0.220019	2.46E-01	2.15E-01	2.40E-01	2.11E-01	2.49E-01
0.325	0.246235	0.227097	2.42E-01	2.11E-01	2.37E-01	2.18E-01	2.46E-01
0.323	0.242666	0.236022	2.38E-01	2.06E-01	2.33E-01	2.27E-01	2.42E-01
0.301	0.239098	0.246793	2.35E-01	1.99E-01	2.30E-01	2.37E-01	2.38E-01
0.258	0.22872	0.205357	2.24E-01	2.17E-01	2.19E-01	1.96E-01	2.29E-01
0.257	0.225093	0.205429	2.21E-01	2.15E-01	2.16E-01	1.96E-01	2.25E-01
0.255	0.221467	0.207349	2.17E-01	2.12E-01	2.12E-01	1.98E-01	2.21E-01
0.253	0.217841	0.211114	2.14E-01	2.08E-01	2.09E-01	2.02E-01	2.17E-01
0.25	0.214215	0.216727	2.10E-01	2.03E-01	2.05E-01	2.07E-01	2.13E-01
0.216	0.210589	0.224186	2.06E-01	1.96E-01	2.01E-01	2.15E-01	2.10E-01
0.191	0.200499	0.196056	1.96E-01	2.08E-01	1.91E-01	1.87E-01	2.00E-01
0.19	0.196815	0.192816	1.93E-01	2.06E-01	1.87E-01	1.83E-01	1.96E-01
0.189	0.193132	0.191423	1.89E-01	2.03E-01	1.84E-01	1.82E-01	1.93E-01
0.187	0.189448	0.191876	1.85E-01	1.98E-01	1.80E-01	1.83E-01	1.89E-01
0.186	0.185764	0.194175	1.81E-01	1.93E-01	1.76E-01	1.85E-01	1.85E-01
0.152	0.18208	0.198322	1.78E-01	1.87E-01	1.73E-01	1.89E-01	1.81E-01
0.129	0.144058	0.167685	1.40E-01	1.70E-01	1.35E-01	1.58E-01	1.43E-01
0.128	0.140259	0.15782	1.36E-01	1.68E-01	1.31E-01	1.48E-01	1.40E-01
0.13	0.13646	0.149802	1.32E-01	1.65E-01	1.27E-01	1.40E-01	1.36E-01
0.128	0.132661	0.14363	1.28E-01	1.61E-01	1.23E-01	1.34E-01	1.32E-01
0.128	0.128862	0.139304	1.25E-01	1.56E-01	1.20E-01	1.30E-01	1.28E-01
0.101	0.125063	0.136825	1.21E-01	1.50E-01	1.16E-01	1.27E-01	1.25E-01
0.098	0.087618	0.126289	8.33E-02	1.08E-01	7.83E-02	1.17E-01	8.67E-02
0.094	0.083703	0.109799	7.94E-02	1.06E-01	7.44E-02	1.00E-01	8.29E-02
0.091	0.079789	0.095156	7.55E-02	1.03E-01	7.05E-02	8.58E-02	7.92E-02
0.088	0.075874	0.082359	7.16E-02	9.88E-02	6.65E-02	7.30E-02	7.54E-02
0.083	0.07196	0.071408	6.77E-02	9.36E-02	6.26E-02	6.21E-02	7.16E-02
0.061	0.068045	0.062304	6.38E-02	8.74E-02	5.87E-02	5.30E-02	6.78E-02
0.051	0.031177	0.071869	2.69E-02	2.07E-02	2.18E-02	6.25E-02	3.00E-02
0.05	0.027147	0.048754	2.29E-02	1.87E-02	1.78E-02	3.94E-02	2.62E-02
0.05	0.023117	0.027485	1.88E-02	1.57E-02	1.38E-02	1.82E-02	2.24E-02
0.049	0.019087	0.008063	1.48E-02	1.16E-02	9.75E-03	-1.27E-03	1.87E-02
0.043	0.015058	-0.00951	1.08E-02	6.41E-03	5.72E-03	-1.88E-02	1.49E-02
0.017	0.011028	-0.02524	6.76E-03	1.61E-04	1.69E-03	-3.46E-02	1.11E-02
0.418	0.30912	0.263581	3.05E-01	2.72E-01	3.06E-01	2.60E-01	3.08E-01
0.415	0.305551	0.266967	3.01E-01	2.70E-01	3.02E-01	2.64E-01	3.04E-01
0.415	0.301983	0.272199	2.98E-01	2.67E-01	2.99E-01	2.69E-01	3.01E-01
0.416	0.298414	0.279277	2.94E-01	2.63E-01	2.95E-01	2.76E-01	2.97E-01
0.417	0.294846	0.288202	2.91E-01	2.58E-01	2.92E-01	2.85E-01	2.93E-01
0.4	0.291278	0.298973	2.87E-01	2.52E-01	2.88E-01	2.96E-01	2.89E-01
0.279	0.280899	0.257537	2.77E-01	2.69E-01	2.78E-01	2.54E-01	2.80E-01
0.275	0.277273	0.257609	2.73E-01	2.67E-01	2.74E-01	2.54E-01	2.76E-01

0.273	0.273647	0.259529	2.69E-01	2.64E-01	2.71E-01	2.56E-01	2.72E-01
0.27	0.270021	0.263294	2.66E-01	2.60E-01	2.67E-01	2.60E-01	2.69E-01
0.271	0.266395	0.268907	2.62E-01	2.55E-01	2.63E-01	2.66E-01	2.65E-01
0.239	0.262769	0.276365	2.59E-01	2.49E-01	2.60E-01	2.73E-01	2.61E-01
0.211	0.252679	0.248236	2.48E-01	2.60E-01	2.50E-01	2.45E-01	2.51E-01
0.212	0.248995	0.244996	2.45E-01	2.58E-01	2.46E-01	2.42E-01	2.48E-01
0.213	0.245311	0.243602	2.41E-01	2.55E-01	2.42E-01	2.40E-01	2.44E-01
0.21	0.241628	0.244056	2.37E-01	2.51E-01	2.38E-01	2.41E-01	2.40E-01
0.21	0.237944	0.246355	2.34E-01	2.45E-01	2.35E-01	2.43E-01	2.36E-01
0.165	0.23426	0.250502	2.30E-01	2.39E-01	2.31E-01	2.47E-01	2.33E-01
0.133	0.196238	0.219865	1.92E-01	2.22E-01	1.93E-01	2.17E-01	1.95E-01
0.13	0.192439	0.21	1.88E-01	2.20E-01	1.89E-01	2.07E-01	1.91E-01
0.135	0.18864	0.201981	1.84E-01	2.17E-01	1.86E-01	1.99E-01	1.87E-01
0.131	0.184841	0.195809	1.81E-01	2.13E-01	1.82E-01	1.93E-01	1.83E-01
0.129	0.181042	0.191484	1.77E-01	2.08E-01	1.78E-01	1.88E-01	1.80E-01
0.102	0.177243	0.189005	1.73E-01	2.02E-01	1.74E-01	1.86E-01	1.76E-01
0.095	0.139798	0.178469	1.36E-01	1.60E-01	1.37E-01	1.75E-01	1.38E-01
0.091	0.135883	0.161979	1.32E-01	1.58E-01	1.33E-01	1.59E-01	1.34E-01
0.09	0.131969	0.147336	1.28E-01	1.55E-01	1.29E-01	1.44E-01	1.30E-01
0.089	0.128054	0.134539	1.24E-01	1.51E-01	1.25E-01	1.31E-01	1.27E-01
0.088	0.12414	0.123588	1.20E-01	1.46E-01	1.21E-01	1.20E-01	1.23E-01
0.053	0.120225	0.114484	1.16E-01	1.40E-01	1.17E-01	1.11E-01	1.19E-01
0.058	0.083357	0.124049	7.91E-02	7.29E-02	8.02E-02	1.21E-01	8.13E-02
0.055	0.079327	0.100934	7.51E-02	7.09E-02	7.62E-02	9.78E-02	7.75E-02
0.053	0.075297	0.079665	7.10E-02	6.79E-02	7.22E-02	7.65E-02	7.37E-02
0.049	0.071267	0.060243	6.70E-02	6.38E-02	6.81E-02	5.71E-02	7.00E-02
0.05	0.067237	0.042667	6.30E-02	5.86E-02	6.41E-02	3.95E-02	6.62E-02
0.018	0.063208	0.026938	5.89E-02	5.23E-02	6.01E-02	2.38E-02	6.24E-02
0.421	0.303647	0.258109	2.99E-01	2.67E-01	3.07E-01	2.61E-01	3.07E-01
0.418	0.300078	0.261494	2.96E-01	2.65E-01	3.03E-01	2.65E-01	3.04E-01
0.42	0.29651	0.266726	2.92E-01	2.62E-01	3.00E-01	2.70E-01	3.00E-01
0.419	0.292942	0.273804	2.89E-01	2.58E-01	2.96E-01	2.77E-01	2.96E-01
0.415	0.289373	0.282729	2.85E-01	2.52E-01	2.93E-01	2.86E-01	2.92E-01
0.388	0.285805	0.2935	2.82E-01	2.46E-01	2.89E-01	2.97E-01	2.88E-01
0.29	0.275427	0.252064	2.71E-01	2.64E-01	2.79E-01	2.55E-01	2.79E-01
0.292	0.2718	0.252136	2.68E-01	2.62E-01	2.75E-01	2.56E-01	2.75E-01
0.292	0.268174	0.254056	2.64E-01	2.59E-01	2.72E-01	2.57E-01	2.71E-01
0.291	0.264548	0.257821	2.60E-01	2.55E-01	2.68E-01	2.61E-01	2.68E-01
0.283	0.260922	0.263434	2.57E-01	2.49E-01	2.64E-01	2.67E-01	2.64E-01
0.247	0.257296	0.270893	2.53E-01	2.43E-01	2.61E-01	2.74E-01	2.60E-01
0.186	0.247206	0.242763	2.43E-01	2.54E-01	2.51E-01	2.46E-01	2.51E-01
0.187	0.243522	0.239523	2.39E-01	2.52E-01	2.47E-01	2.43E-01	2.47E-01
0.185	0.239839	0.238129	2.36E-01	2.49E-01	2.43E-01	2.42E-01	2.43E-01
0.183	0.236155	0.238583	2.32E-01	2.45E-01	2.40E-01	2.42E-01	2.39E-01
0.183	0.232471	0.240882	2.28E-01	2.40E-01	2.36E-01	2.44E-01	2.36E-01
0.151	0.228787	0.245029	2.25E-01	2.34E-01	2.32E-01	2.48E-01	2.32E-01
0.124	0.190765	0.214392	1.87E-01	2.17E-01	1.94E-01	2.18E-01	1.94E-01
0.125	0.186966	0.204527	1.83E-01	2.15E-01	1.90E-01	2.08E-01	1.90E-01

0.126	0.183167	0.196509	1.79E-01	2.12E-01	1.87E-01	2.00E-01	1.86E-01
0.125	0.179368	0.190337	1.75E-01	2.08E-01	1.83E-01	1.94E-01	1.83E-01
0.124	0.175569	0.186011	1.71E-01	2.03E-01	1.79E-01	1.89E-01	1.79E-01
0.109	0.17177	0.183532	1.68E-01	1.96E-01	1.75E-01	1.87E-01	1.75E-01
0.091	0.134325	0.172996	1.30E-01	1.55E-01	1.38E-01	1.76E-01	1.37E-01
0.092	0.13041	0.156506	1.26E-01	1.53E-01	1.34E-01	1.60E-01	1.33E-01
0.09	0.126496	0.141863	1.22E-01	1.50E-01	1.30E-01	1.45E-01	1.30E-01
0.09	0.122581	0.129066	1.18E-01	1.46E-01	1.26E-01	1.32E-01	1.26E-01
0.089	0.118667	0.118115	1.14E-01	1.40E-01	1.22E-01	1.21E-01	1.22E-01
0.058	0.114752	0.109011	1.11E-01	1.34E-01	1.18E-01	1.12E-01	1.18E-01
0.051	0.077884	0.118576	7.36E-02	6.74E-02	8.13E-02	1.22E-01	8.04E-02
0.05	0.073854	0.095461	6.96E-02	6.55E-02	7.72E-02	9.88E-02	7.66E-02
0.049	0.069824	0.074192	6.56E-02	6.24E-02	7.32E-02	7.76E-02	7.29E-02
0.048	0.065794	0.05477	6.16E-02	5.83E-02	6.92E-02	5.82E-02	6.91E-02
0.045	0.061765	0.037194	5.75E-02	5.31E-02	6.51E-02	4.06E-02	6.53E-02
0.019	0.057735	0.021465	5.35E-02	4.69E-02	6.11E-02	2.48E-02	6.16E-02
0.166	0.258095	0.212556	2.56E-01	2.21E-01	2.67E-01	2.22E-01	2.58E-01
0.167	0.254526	0.215942	2.52E-01	2.19E-01	2.64E-01	2.25E-01	2.54E-01
0.165	0.250958	0.221173	2.49E-01	2.16E-01	2.60E-01	2.30E-01	2.50E-01
0.165	0.247389	0.228252	2.45E-01	2.12E-01	2.57E-01	2.38E-01	2.46E-01
0.163	0.243821	0.237176	2.41E-01	2.07E-01	2.53E-01	2.46E-01	2.43E-01
0.161	0.240252	0.247948	2.38E-01	2.01E-01	2.50E-01	2.57E-01	2.39E-01
0.153	0.229874	0.206511	2.27E-01	2.18E-01	2.39E-01	2.16E-01	2.29E-01
0.151	0.226248	0.206584	2.24E-01	2.16E-01	2.36E-01	2.16E-01	2.26E-01
0.152	0.222622	0.208503	2.20E-01	2.13E-01	2.32E-01	2.18E-01	2.22E-01
0.153	0.218996	0.212269	2.17E-01	2.09E-01	2.28E-01	2.22E-01	2.18E-01
0.154	0.21537	0.217881	2.13E-01	2.04E-01	2.25E-01	2.27E-01	2.14E-01
0.151	0.211744	0.22534	2.09E-01	1.98E-01	2.21E-01	2.35E-01	2.11E-01
0.146	0.201654	0.19721	1.99E-01	2.09E-01	2.11E-01	2.07E-01	2.01E-01
0.147	0.19797	0.19397	1.96E-01	2.07E-01	2.07E-01	2.03E-01	1.97E-01
0.143	0.194286	0.192577	1.92E-01	2.04E-01	2.04E-01	2.02E-01	1.93E-01
0.139	0.190602	0.19303	1.88E-01	2.00E-01	2.00E-01	2.02E-01	1.90E-01
0.138	0.186919	0.19533	1.84E-01	1.94E-01	1.96E-01	2.05E-01	1.86E-01
0.122	0.183235	0.199476	1.81E-01	1.88E-01	1.93E-01	2.09E-01	1.82E-01
0.116	0.145213	0.16884	1.43E-01	1.71E-01	1.55E-01	1.78E-01	1.44E-01
0.115	0.141414	0.158975	1.39E-01	1.69E-01	1.51E-01	1.68E-01	1.41E-01
0.114	0.137615	0.150956	1.35E-01	1.66E-01	1.47E-01	1.60E-01	1.37E-01
0.117	0.133816	0.144784	1.31E-01	1.62E-01	1.43E-01	1.54E-01	1.33E-01
0.114	0.130017	0.140459	1.28E-01	1.57E-01	1.39E-01	1.50E-01	1.29E-01
0.101	0.126217	0.13798	1.24E-01	1.51E-01	1.36E-01	1.47E-01	1.25E-01
0.087	0.088772	0.127444	8.64E-02	1.09E-01	9.81E-02	1.37E-01	8.75E-02
0.087	0.084858	0.110954	8.24E-02	1.07E-01	9.42E-02	1.20E-01	8.38E-02
0.085	0.080943	0.09631	7.85E-02	1.04E-01	9.02E-02	1.06E-01	8.00E-02
0.083	0.077029	0.083513	7.46E-02	1.00E-01	8.63E-02	9.28E-02	7.62E-02
0.085	0.073114	0.072563	7.07E-02	9.48E-02	8.24E-02	8.19E-02	7.25E-02
0.066	0.0692	0.063459	6.68E-02	8.85E-02	7.85E-02	7.28E-02	6.87E-02
0.065	0.032332	0.073024	2.99E-02	2.19E-02	4.16E-02	8.23E-02	3.08E-02
0.061	0.028302	0.049908	2.59E-02	1.99E-02	3.76E-02	5.92E-02	2.70E-02

0.059	0.024272	0.02864	2.19E-02	1.69E-02	3.36E-02	3.79E-02	2.33E-02
0.06	0.020242	0.009218	1.78E-02	1.28E-02	2.95E-02	1.85E-02	1.95E-02
0.049	0.016212	-0.00836	1.38E-02	7.57E-03	2.55E-02	9.48E-04	1.57E-02
0.029	0.012182	-0.02409	9.76E-03	1.32E-03	2.15E-02	-1.48E-02	1.20E-02
0.246	0.284184	0.238646	2.82E-01	2.47E-01	2.82E-01	2.36E-01	2.85E-01
0.251	0.280616	0.242031	2.78E-01	2.45E-01	2.78E-01	2.40E-01	2.81E-01
0.247	0.277048	0.247263	2.75E-01	2.42E-01	2.75E-01	2.45E-01	2.77E-01
0.249	0.273479	0.254342	2.71E-01	2.38E-01	2.71E-01	2.52E-01	2.74E-01
0.251	0.269911	0.263266	2.67E-01	2.33E-01	2.68E-01	2.61E-01	2.70E-01
0.248	0.266342	0.274038	2.64E-01	2.27E-01	2.64E-01	2.72E-01	2.66E-01
0.231	0.255964	0.232601	2.54E-01	2.44E-01	2.54E-01	2.30E-01	2.56E-01
0.229	0.252338	0.232674	2.50E-01	2.42E-01	2.50E-01	2.30E-01	2.53E-01
0.235	0.248712	0.234593	2.46E-01	2.39E-01	2.47E-01	2.32E-01	2.49E-01
0.236	0.245086	0.238359	2.43E-01	2.35E-01	2.43E-01	2.36E-01	2.45E-01
0.234	0.24146	0.243971	2.39E-01	2.30E-01	2.39E-01	2.42E-01	2.41E-01
0.211	0.237834	0.25143	2.35E-01	2.24E-01	2.36E-01	2.49E-01	2.38E-01
0.201	0.227744	0.2233	2.25E-01	2.35E-01	2.26E-01	2.21E-01	2.28E-01
0.202	0.22406	0.22006	2.22E-01	2.33E-01	2.22E-01	2.18E-01	2.24E-01
0.201	0.220376	0.218667	2.18E-01	2.30E-01	2.18E-01	2.16E-01	2.21E-01
0.2	0.216692	0.21912	2.14E-01	2.26E-01	2.15E-01	2.17E-01	2.17E-01
0.198	0.213009	0.22142	2.11E-01	2.21E-01	2.11E-01	2.19E-01	2.13E-01
0.179	0.209325	0.225566	2.07E-01	2.14E-01	2.07E-01	2.23E-01	2.09E-01
0.161	0.171303	0.194929	1.69E-01	1.97E-01	1.69E-01	1.93E-01	1.71E-01
0.159	0.167504	0.185065	1.65E-01	1.95E-01	1.65E-01	1.83E-01	1.68E-01
0.157	0.163705	0.177046	1.61E-01	1.92E-01	1.62E-01	1.75E-01	1.64E-01
0.154	0.159906	0.170874	1.57E-01	1.88E-01	1.58E-01	1.69E-01	1.60E-01
0.152	0.156106	0.166549	1.54E-01	1.83E-01	1.54E-01	1.64E-01	1.56E-01
0.139	0.152307	0.16407	1.50E-01	1.77E-01	1.50E-01	1.62E-01	1.53E-01
0.135	0.114862	0.153534	1.12E-01	1.35E-01	1.13E-01	1.51E-01	1.15E-01
0.136	0.110948	0.137044	1.09E-01	1.33E-01	1.09E-01	1.35E-01	1.11E-01
0.137	0.107033	0.1224	1.05E-01	1.30E-01	1.05E-01	1.20E-01	1.07E-01
0.138	0.103119	0.109603	1.01E-01	1.26E-01	1.01E-01	1.07E-01	1.03E-01
0.134	0.099204	0.098653	9.68E-02	1.21E-01	9.70E-02	9.65E-02	9.96E-02
0.101	0.09529	0.089549	9.29E-02	1.15E-01	9.31E-02	8.74E-02	9.58E-02
0.094	0.058422	0.099113	5.60E-02	4.80E-02	5.62E-02	9.69E-02	5.79E-02
0.093	0.054392	0.075998	5.20E-02	4.60E-02	5.22E-02	7.38E-02	5.42E-02
0.089	0.050362	0.05473	4.79E-02	4.30E-02	4.82E-02	5.25E-02	5.04E-02
0.088	0.046332	0.035307	4.39E-02	3.88E-02	4.41E-02	3.31E-02	4.66E-02
0.089	0.042302	0.017732	3.99E-02	3.37E-02	4.01E-02	1.55E-02	4.28E-02
0.044	0.038272	0.002003	3.59E-02	2.74E-02	3.61E-02	-1.87E-04	3.91E-02
0.336	0.336364	0.290826	3.34E-01	2.99E-01	3.40E-01	2.95E-01	3.39E-01
0.335	0.332796	0.294211	3.30E-01	2.97E-01	3.37E-01	2.98E-01	3.35E-01
0.337	0.329227	0.299443	3.27E-01	2.94E-01	3.33E-01	3.03E-01	3.32E-01
0.335	0.325659	0.306521	3.23E-01	2.90E-01	3.30E-01	3.11E-01	3.28E-01
0.334	0.322091	0.315446	3.20E-01	2.85E-01	3.26E-01	3.19E-01	3.24E-01
0.311	0.318522	0.326218	3.16E-01	2.79E-01	3.23E-01	3.30E-01	3.20E-01
0.315	0.308144	0.284781	3.06E-01	2.96E-01	3.12E-01	2.89E-01	3.11E-01
0.312	0.304518	0.284854	3.02E-01	2.94E-01	3.09E-01	2.89E-01	3.07E-01

0.315	0.300892	0.286773	2.98E-01	2.91E-01	3.05E-01	2.91E-01	3.03E-01
0.311	0.297266	0.290539	2.95E-01	2.87E-01	3.01E-01	2.95E-01	2.99E-01
0.312	0.29364	0.296151	2.91E-01	2.82E-01	2.98E-01	3.00E-01	2.96E-01
0.271	0.290013	0.30361	2.88E-01	2.76E-01	2.94E-01	3.08E-01	2.92E-01
0.271	0.279924	0.27548	2.78E-01	2.87E-01	2.84E-01	2.79E-01	2.82E-01
0.269	0.27624	0.27224	2.74E-01	2.85E-01	2.80E-01	2.76E-01	2.79E-01
0.268	0.272556	0.270847	2.70E-01	2.82E-01	2.77E-01	2.75E-01	2.75E-01
0.271	0.268872	0.2713	2.66E-01	2.78E-01	2.73E-01	2.75E-01	2.71E-01
0.265	0.265188	0.2736	2.63E-01	2.73E-01	2.69E-01	2.78E-01	2.67E-01
0.219	0.261505	0.277746	2.59E-01	2.66E-01	2.66E-01	2.82E-01	2.63E-01
0.171	0.223483	0.247109	2.21E-01	2.50E-01	2.27E-01	2.51E-01	2.26E-01
0.172	0.219684	0.237244	2.17E-01	2.48E-01	2.24E-01	2.41E-01	2.22E-01
0.169	0.215885	0.229226	2.13E-01	2.45E-01	2.20E-01	2.33E-01	2.18E-01
0.171	0.212085	0.223054	2.10E-01	2.41E-01	2.16E-01	2.27E-01	2.14E-01
0.172	0.208286	0.218729	2.06E-01	2.35E-01	2.12E-01	2.23E-01	2.11E-01
0.142	0.204487	0.21625	2.02E-01	2.29E-01	2.08E-01	2.20E-01	2.07E-01
0.134	0.167042	0.205714	1.65E-01	1.87E-01	1.71E-01	2.10E-01	1.69E-01
0.133	0.163128	0.189224	1.61E-01	1.85E-01	1.67E-01	1.93E-01	1.65E-01
0.135	0.159213	0.17458	1.57E-01	1.82E-01	1.63E-01	1.79E-01	1.61E-01
0.131	0.155299	0.161783	1.53E-01	1.78E-01	1.59E-01	1.66E-01	1.58E-01
0.129	0.151384	0.150833	1.49E-01	1.73E-01	1.55E-01	1.55E-01	1.54E-01
0.085	0.14747	0.141729	1.45E-01	1.67E-01	1.51E-01	1.46E-01	1.50E-01
0.092	0.110602	0.151293	1.08E-01	1.00E-01	1.15E-01	1.55E-01	1.12E-01
0.093	0.106572	0.128178	1.04E-01	9.82E-02	1.11E-01	1.32E-01	1.08E-01
0.091	0.102542	0.106909	1.00E-01	9.51E-02	1.07E-01	1.11E-01	1.05E-01
0.089	0.098512	0.087487	9.61E-02	9.10E-02	1.03E-01	9.15E-02	1.01E-01
0.085	0.094482	0.069912	9.21E-02	8.58E-02	9.85E-02	7.39E-02	9.70E-02
0.044	0.090452	0.054183	8.80E-02	7.96E-02	9.45E-02	5.82E-02	9.33E-02
0.236	0.273977	0.228439	2.72E-01	2.37E-01	2.76E-01	2.31E-01	2.74E-01
0.234	0.270409	0.231824	2.68E-01	2.35E-01	2.73E-01	2.34E-01	2.71E-01
0.232	0.266841	0.237056	2.64E-01	2.32E-01	2.69E-01	2.39E-01	2.67E-01
0.235	0.263272	0.244135	2.61E-01	2.28E-01	2.65E-01	2.46E-01	2.63E-01
0.231	0.259704	0.253059	2.57E-01	2.23E-01	2.62E-01	2.55E-01	2.59E-01
0.228	0.256135	0.263831	2.54E-01	2.17E-01	2.58E-01	2.66E-01	2.55E-01
0.218	0.245757	0.222394	2.43E-01	2.34E-01	2.48E-01	2.25E-01	2.46E-01
0.217	0.242131	0.222467	2.40E-01	2.32E-01	2.44E-01	2.25E-01	2.42E-01
0.219	0.238505	0.224386	2.36E-01	2.29E-01	2.41E-01	2.26E-01	2.38E-01
0.221	0.234879	0.228152	2.32E-01	2.25E-01	2.37E-01	2.30E-01	2.35E-01
0.217	0.231253	0.233764	2.29E-01	2.20E-01	2.33E-01	2.36E-01	2.31E-01
0.199	0.227627	0.241223	2.25E-01	2.13E-01	2.30E-01	2.43E-01	2.27E-01
0.207	0.217537	0.213093	2.15E-01	2.25E-01	2.20E-01	2.15E-01	2.18E-01
0.208	0.213853	0.209853	2.11E-01	2.23E-01	2.16E-01	2.12E-01	2.14E-01
0.211	0.210169	0.20846	2.08E-01	2.20E-01	2.12E-01	2.11E-01	2.10E-01
0.205	0.206485	0.208913	2.04E-01	2.16E-01	2.09E-01	2.11E-01	2.06E-01
0.206	0.202802	0.211213	2.00E-01	2.10E-01	2.05E-01	2.13E-01	2.03E-01
0.178	0.199118	0.215359	1.97E-01	2.04E-01	2.01E-01	2.17E-01	1.99E-01
0.161	0.161096	0.184723	1.59E-01	1.87E-01	1.63E-01	1.87E-01	1.61E-01
0.159	0.157297	0.174858	1.55E-01	1.85E-01	1.59E-01	1.77E-01	1.57E-01

0.161	0.153498	0.166839	1.51E-01	1.82E-01	1.56E-01	1.69E-01	1.53E-01
0.158	0.149699	0.160667	1.47E-01	1.78E-01	1.52E-01	1.63E-01	1.50E-01
0.158	0.145899	0.156342	1.43E-01	1.73E-01	1.48E-01	1.58E-01	1.46E-01
0.132	0.1421	0.153863	1.40E-01	1.67E-01	1.44E-01	1.56E-01	1.42E-01
0.126	0.104655	0.143327	1.02E-01	1.25E-01	1.07E-01	1.45E-01	1.04E-01
0.127	0.100741	0.126837	9.83E-02	1.23E-01	1.03E-01	1.29E-01	1.00E-01
0.129	0.096826	0.112193	9.44E-02	1.20E-01	9.89E-02	1.14E-01	9.66E-02
0.131	0.092912	0.099396	9.05E-02	1.16E-01	9.50E-02	1.02E-01	9.28E-02
0.125	0.088997	0.088446	8.66E-02	1.11E-01	9.11E-02	9.06E-02	8.91E-02
0.098	0.085083	0.079342	8.27E-02	1.04E-01	8.72E-02	8.15E-02	8.53E-02
0.095	0.048215	0.088906	4.58E-02	3.77E-02	5.03E-02	9.10E-02	4.74E-02
0.096	0.044185	0.065791	4.18E-02	3.58E-02	4.63E-02	6.79E-02	4.37E-02
0.097	0.040155	0.044523	3.77E-02	3.27E-02	4.23E-02	4.66E-02	3.99E-02
0.095	0.036125	0.0251	3.37E-02	2.86E-02	3.82E-02	2.72E-02	3.61E-02
0.091	0.032095	0.007525	2.97E-02	2.35E-02	3.42E-02	9.64E-03	3.23E-02
0.052	0.028065	-0.0082	2.57E-02	1.72E-02	3.02E-02	-6.09E-03	2.86E-02
0.349	0.300067	0.254529	2.98E-01	2.63E-01	2.91E-01	2.45E-01	3.00E-01
0.349	0.296499	0.257914	2.94E-01	2.61E-01	2.87E-01	2.49E-01	2.96E-01
0.351	0.292931	0.263146	2.91E-01	2.58E-01	2.84E-01	2.54E-01	2.92E-01
0.348	0.289362	0.270225	2.87E-01	2.54E-01	2.80E-01	2.61E-01	2.89E-01
0.349	0.285794	0.279149	2.83E-01	2.49E-01	2.76E-01	2.70E-01	2.85E-01
0.335	0.282225	0.289921	2.80E-01	2.43E-01	2.73E-01	2.81E-01	2.81E-01
0.301	0.271847	0.248484	2.69E-01	2.60E-01	2.62E-01	2.39E-01	2.72E-01
0.302	0.268221	0.248557	2.66E-01	2.58E-01	2.59E-01	2.39E-01	2.68E-01
0.299	0.264595	0.250476	2.62E-01	2.55E-01	2.55E-01	2.41E-01	2.64E-01
0.301	0.260969	0.254242	2.59E-01	2.51E-01	2.52E-01	2.45E-01	2.60E-01
0.3	0.257343	0.259854	2.55E-01	2.46E-01	2.48E-01	2.50E-01	2.57E-01
0.275	0.253717	0.267313	2.51E-01	2.40E-01	2.44E-01	2.58E-01	2.53E-01
0.251	0.243627	0.239183	2.41E-01	2.51E-01	2.34E-01	2.30E-01	2.43E-01
0.251	0.239943	0.235943	2.38E-01	2.49E-01	2.31E-01	2.27E-01	2.39E-01
0.252	0.236259	0.23455	2.34E-01	2.46E-01	2.27E-01	2.25E-01	2.36E-01
0.249	0.232575	0.235003	2.30E-01	2.42E-01	2.23E-01	2.26E-01	2.32E-01
0.251	0.228892	0.237303	2.26E-01	2.36E-01	2.20E-01	2.28E-01	2.28E-01
0.231	0.225208	0.241449	2.23E-01	2.30E-01	2.16E-01	2.32E-01	2.24E-01
0.186	0.187186	0.210812	1.85E-01	2.13E-01	1.78E-01	2.01E-01	1.87E-01
0.187	0.183387	0.200947	1.81E-01	2.11E-01	1.74E-01	1.92E-01	1.83E-01
0.186	0.179588	0.192929	1.77E-01	2.08E-01	1.70E-01	1.84E-01	1.79E-01
0.186	0.175789	0.186757	1.73E-01	2.04E-01	1.66E-01	1.77E-01	1.75E-01
0.187	0.171989	0.182432	1.70E-01	1.99E-01	1.63E-01	1.73E-01	1.71E-01
0.151	0.16819	0.179953	1.66E-01	1.93E-01	1.59E-01	1.71E-01	1.68E-01
0.132	0.130745	0.169417	1.28E-01	1.51E-01	1.21E-01	1.60E-01	1.30E-01
0.133	0.126831	0.152927	1.24E-01	1.49E-01	1.17E-01	1.44E-01	1.26E-01
0.133	0.122916	0.138283	1.21E-01	1.46E-01	1.14E-01	1.29E-01	1.22E-01
0.133	0.119002	0.125486	1.17E-01	1.42E-01	1.10E-01	1.16E-01	1.18E-01
0.134	0.115087	0.114536	1.13E-01	1.37E-01	1.06E-01	1.05E-01	1.15E-01
0.108	0.111173	0.105432	1.09E-01	1.30E-01	1.02E-01	9.60E-02	1.11E-01
0.103	0.074305	0.114996	7.19E-02	6.38E-02	6.49E-02	1.06E-01	7.31E-02
0.105	0.070275	0.091881	6.79E-02	6.19E-02	6.09E-02	8.25E-02	6.93E-02

0.101	0.066245	0.070613	6.38E-02	5.88E-02	5.69E-02	6.12E-02	6.55E-02
0.098	0.062215	0.05119	5.98E-02	5.47E-02	5.28E-02	4.18E-02	6.18E-02
0.099	0.058185	0.033615	5.58E-02	4.95E-02	4.88E-02	2.42E-02	5.80E-02
0.071	0.054155	0.017886	5.17E-02	4.33E-02	4.48E-02	8.50E-03	5.42E-02
0.427	0.352247	0.306709	3.50E-01	3.15E-01	3.49E-01	3.04E-01	3.51E-01
0.428	0.348679	0.310094	3.46E-01	3.13E-01	3.45E-01	3.07E-01	3.48E-01
0.425	0.34511	0.315326	3.43E-01	3.10E-01	3.42E-01	3.12E-01	3.44E-01
0.427	0.341542	0.322404	3.39E-01	3.06E-01	3.38E-01	3.19E-01	3.40E-01
0.427	0.337974	0.331329	3.36E-01	3.01E-01	3.35E-01	3.28E-01	3.36E-01
0.412	0.334405	0.342101	3.32E-01	2.95E-01	3.31E-01	3.39E-01	3.32E-01
0.392	0.324027	0.300664	3.22E-01	3.12E-01	3.21E-01	2.97E-01	3.23E-01
0.393	0.320401	0.300737	3.18E-01	3.10E-01	3.17E-01	2.98E-01	3.19E-01
0.393	0.316775	0.302656	3.14E-01	3.07E-01	3.14E-01	2.99E-01	3.15E-01
0.388	0.313149	0.306422	3.11E-01	3.03E-01	3.10E-01	3.03E-01	3.12E-01
0.387	0.309523	0.312034	3.07E-01	2.98E-01	3.06E-01	3.09E-01	3.08E-01
0.369	0.305896	0.319493	3.03E-01	2.92E-01	3.03E-01	3.16E-01	3.04E-01
0.322	0.295807	0.291363	2.93E-01	3.03E-01	2.93E-01	2.88E-01	2.95E-01
0.321	0.292123	0.288123	2.90E-01	3.01E-01	2.89E-01	2.85E-01	2.91E-01
0.325	0.288439	0.28673	2.86E-01	2.98E-01	2.85E-01	2.84E-01	2.87E-01
0.318	0.284755	0.287183	2.82E-01	2.94E-01	2.82E-01	2.84E-01	2.83E-01
0.317	0.281071	0.289483	2.79E-01	2.89E-01	2.78E-01	2.86E-01	2.79E-01
0.289	0.277388	0.293629	2.75E-01	2.82E-01	2.74E-01	2.90E-01	2.76E-01
0.191	0.239366	0.262992	2.37E-01	2.66E-01	2.36E-01	2.60E-01	2.38E-01
0.192	0.235567	0.253127	2.33E-01	2.64E-01	2.32E-01	2.50E-01	2.34E-01
0.188	0.231768	0.245109	2.29E-01	2.61E-01	2.29E-01	2.42E-01	2.30E-01
0.189	0.227968	0.238937	2.26E-01	2.56E-01	2.25E-01	2.36E-01	2.27E-01
0.191	0.224169	0.234612	2.22E-01	2.51E-01	2.21E-01	2.31E-01	2.23E-01
0.151	0.22037	0.232133	2.18E-01	2.45E-01	2.17E-01	2.29E-01	2.19E-01
0.139	0.182925	0.221597	1.81E-01	2.03E-01	1.80E-01	2.18E-01	1.81E-01
0.141	0.179011	0.205107	1.77E-01	2.01E-01	1.76E-01	2.02E-01	1.77E-01
0.14	0.175096	0.190463	1.73E-01	1.98E-01	1.72E-01	1.87E-01	1.74E-01
0.138	0.171182	0.177666	1.69E-01	1.94E-01	1.68E-01	1.74E-01	1.70E-01
0.141	0.167267	0.166716	1.65E-01	1.89E-01	1.64E-01	1.64E-01	1.66E-01
0.116	0.163353	0.157612	1.61E-01	1.83E-01	1.60E-01	1.54E-01	1.62E-01
0.089	0.126485	0.167176	1.24E-01	1.16E-01	1.23E-01	1.64E-01	1.24E-01
0.091	0.122455	0.144061	1.20E-01	1.14E-01	1.19E-01	1.41E-01	1.21E-01
0.088	0.118425	0.122792	1.16E-01	1.11E-01	1.15E-01	1.20E-01	1.17E-01
0.079	0.114395	0.10337	1.12E-01	1.07E-01	1.11E-01	1.00E-01	1.13E-01
0.075	0.110365	0.085795	1.08E-01	1.02E-01	1.07E-01	8.26E-02	1.09E-01
0.049	0.106335	0.070066	1.04E-01	9.55E-02	1.03E-01	6.69E-02	1.06E-01
0.431	0.346774	0.301236	3.44E-01	3.10E-01	3.50E-01	3.05E-01	3.50E-01
0.429	0.343206	0.304621	3.41E-01	3.08E-01	3.47E-01	3.08E-01	3.47E-01
0.428	0.339638	0.309853	3.37E-01	3.05E-01	3.43E-01	3.13E-01	3.43E-01
0.432	0.336069	0.316932	3.34E-01	3.01E-01	3.39E-01	3.20E-01	3.39E-01
0.431	0.332501	0.325856	3.30E-01	2.96E-01	3.36E-01	3.29E-01	3.35E-01
0.409	0.328932	0.336628	3.27E-01	2.89E-01	3.32E-01	3.40E-01	3.32E-01
0.361	0.318554	0.295191	3.16E-01	3.07E-01	3.22E-01	2.99E-01	3.22E-01
0.362	0.314928	0.295264	3.13E-01	3.05E-01	3.18E-01	2.99E-01	3.18E-01

0.359	0.311302	0.297183	3.09E-01	3.02E-01	3.15E-01	3.01E-01	3.15E-01
0.358	0.307676	0.300949	3.05E-01	2.98E-01	3.11E-01	3.04E-01	3.11E-01
0.361	0.30405	0.306561	3.02E-01	2.92E-01	3.07E-01	3.10E-01	3.07E-01
0.33	0.300424	0.31402	2.98E-01	2.86E-01	3.04E-01	3.17E-01	3.03E-01
0.292	0.290334	0.28589	2.88E-01	2.97E-01	2.94E-01	2.89E-01	2.94E-01
0.292	0.28665	0.28265	2.84E-01	2.95E-01	2.90E-01	2.86E-01	2.90E-01
0.291	0.282966	0.281257	2.81E-01	2.92E-01	2.86E-01	2.85E-01	2.86E-01
0.293	0.279282	0.28171	2.77E-01	2.88E-01	2.83E-01	2.85E-01	2.82E-01
0.291	0.275599	0.28401	2.73E-01	2.83E-01	2.79E-01	2.87E-01	2.79E-01
0.253	0.271915	0.288156	2.70E-01	2.77E-01	2.75E-01	2.91E-01	2.75E-01
0.222	0.233893	0.257519	2.32E-01	2.60E-01	2.37E-01	2.61E-01	2.37E-01
0.226	0.230094	0.247654	2.28E-01	2.58E-01	2.33E-01	2.51E-01	2.33E-01
0.225	0.226295	0.239636	2.24E-01	2.55E-01	2.30E-01	2.43E-01	2.29E-01
0.225	0.222496	0.233464	2.20E-01	2.51E-01	2.26E-01	2.37E-01	2.26E-01
0.226	0.218696	0.229139	2.16E-01	2.46E-01	2.22E-01	2.32E-01	2.22E-01
0.186	0.214897	0.22666	2.13E-01	2.39E-01	2.18E-01	2.30E-01	2.18E-01
0.171	0.177452	0.216124	1.75E-01	1.98E-01	1.81E-01	2.19E-01	1.80E-01
0.169	0.173538	0.199634	1.71E-01	1.96E-01	1.77E-01	2.03E-01	1.76E-01
0.169	0.169623	0.18499	1.67E-01	1.93E-01	1.73E-01	1.88E-01	1.73E-01
0.161	0.165709	0.172193	1.63E-01	1.89E-01	1.69E-01	1.76E-01	1.69E-01
0.159	0.161794	0.161243	1.59E-01	1.83E-01	1.65E-01	1.65E-01	1.65E-01
0.125	0.15788	0.152139	1.55E-01	1.77E-01	1.61E-01	1.55E-01	1.61E-01
0.095	0.121012	0.161703	1.19E-01	1.11E-01	1.24E-01	1.65E-01	1.24E-01
0.089	0.116982	0.138588	1.15E-01	1.09E-01	1.20E-01	1.42E-01	1.20E-01
0.091	0.112952	0.11732	1.11E-01	1.06E-01	1.16E-01	1.21E-01	1.16E-01
0.098	0.108922	0.097897	1.07E-01	1.01E-01	1.12E-01	1.01E-01	1.12E-01
0.095	0.104892	0.080322	1.03E-01	9.62E-02	1.08E-01	8.37E-02	1.08E-01
0.061	0.100862	0.064593	9.85E-02	9.00E-02	1.04E-01	6.79E-02	1.05E-01
0.163	0.233135	0.187597	2.40E-01	1.96E-01	2.42E-01	1.97E-01	2.33E-01
0.161	0.229567	0.190982	2.36E-01	1.94E-01	2.39E-01	2.00E-01	2.29E-01
0.161	0.225998	0.196214	2.33E-01	1.91E-01	2.35E-01	2.06E-01	2.25E-01
0.159	0.22243	0.203292	2.29E-01	1.87E-01	2.32E-01	2.13E-01	2.21E-01
0.161	0.218862	0.212217	2.26E-01	1.82E-01	2.28E-01	2.22E-01	2.18E-01
0.159	0.215293	0.222989	2.22E-01	1.76E-01	2.25E-01	2.32E-01	2.14E-01
0.151	0.204915	0.181552	2.12E-01	1.93E-01	2.14E-01	1.91E-01	2.04E-01
0.151	0.201289	0.181625	2.08E-01	1.91E-01	2.11E-01	1.91E-01	2.01E-01
0.148	0.197663	0.183544	2.05E-01	1.88E-01	2.07E-01	1.93E-01	1.97E-01
0.149	0.194037	0.18731	2.01E-01	1.84E-01	2.03E-01	1.97E-01	1.93E-01
0.151	0.190411	0.192922	1.97E-01	1.79E-01	2.00E-01	2.02E-01	1.89E-01
0.142	0.186784	0.200381	1.94E-01	1.73E-01	1.96E-01	2.10E-01	1.86E-01
0.135	0.176695	0.172251	1.84E-01	1.84E-01	1.86E-01	1.82E-01	1.76E-01
0.133	0.173011	0.169011	1.80E-01	1.82E-01	1.82E-01	1.78E-01	1.72E-01
0.133	0.169327	0.167618	1.76E-01	1.79E-01	1.79E-01	1.77E-01	1.69E-01
0.131	0.165643	0.168071	1.73E-01	1.75E-01	1.75E-01	1.77E-01	1.65E-01
0.125	0.161959	0.170371	1.69E-01	1.69E-01	1.71E-01	1.80E-01	1.61E-01
0.117	0.158276	0.174517	1.65E-01	1.63E-01	1.68E-01	1.84E-01	1.57E-01
0.106	0.120254	0.14388	1.27E-01	1.46E-01	1.30E-01	1.53E-01	1.19E-01
0.105	0.116455	0.134015	1.23E-01	1.44E-01	1.26E-01	1.43E-01	1.16E-01

0.101	0.112656	0.125997	1.20E-01	1.41E-01	1.22E-01	1.35E-01	1.12E-01
0.098	0.108856	0.119825	1.16E-01	1.37E-01	1.18E-01	1.29E-01	1.08E-01
0.095	0.105057	0.1155	1.12E-01	1.32E-01	1.14E-01	1.25E-01	1.04E-01
0.077	0.101258	0.113021	1.08E-01	1.26E-01	1.11E-01	1.22E-01	1.00E-01
0.081	0.063813	0.102485	7.07E-02	8.41E-02	7.31E-02	1.12E-01	6.26E-02
0.082	0.059899	0.085995	6.68E-02	8.21E-02	6.92E-02	9.53E-02	5.88E-02
0.079	0.055984	0.071351	6.29E-02	7.91E-02	6.53E-02	8.07E-02	5.51E-02
0.081	0.05207	0.058554	5.90E-02	7.50E-02	6.14E-02	6.79E-02	5.13E-02
0.075	0.048155	0.047604	5.51E-02	6.98E-02	5.75E-02	5.69E-02	4.75E-02
0.06	0.044241	0.0385	5.12E-02	6.36E-02	5.36E-02	4.78E-02	4.37E-02
0.05	0.007373	0.048064	1.43E-02	-3.10E-03	1.67E-02	5.74E-02	5.86E-03
0.051	0.003343	0.024949	1.03E-02	-5.06E-03	1.27E-02	3.43E-02	2.09E-03
0.048	-0.00069	0.00368	6.23E-03	-8.10E-03	8.63E-03	1.30E-02	-1.68E-03
0.045	-0.00472	-0.01574	2.20E-03	-1.22E-02	4.60E-03	-6.43E-03	-5.45E-03
0.044	-0.00875	-0.03332	-1.83E-03	-1.74E-02	5.67E-04	-2.40E-02	-9.22E-03
0.031	-0.01278	-0.04905	-5.86E-03	-2.36E-02	-3.46E-03	-3.97E-02	-1.30E-02
0.24	0.259225	0.213687	2.66E-01	2.22E-01	2.57E-01	2.12E-01	2.60E-01
0.239	0.255657	0.217072	2.63E-01	2.20E-01	2.53E-01	2.15E-01	2.56E-01
0.239	0.252088	0.222304	2.59E-01	2.17E-01	2.50E-01	2.20E-01	2.52E-01
0.24	0.24852	0.229382	2.55E-01	2.13E-01	2.46E-01	2.27E-01	2.49E-01
0.238	0.244952	0.238307	2.52E-01	2.08E-01	2.43E-01	2.36E-01	2.45E-01
0.221	0.241383	0.249079	2.48E-01	2.02E-01	2.39E-01	2.47E-01	2.41E-01
0.217	0.231005	0.207642	2.38E-01	2.19E-01	2.29E-01	2.05E-01	2.32E-01
0.215	0.227379	0.207715	2.34E-01	2.17E-01	2.25E-01	2.06E-01	2.28E-01
0.216	0.223753	0.209634	2.31E-01	2.14E-01	2.22E-01	2.07E-01	2.24E-01
0.215	0.220127	0.2134	2.27E-01	2.10E-01	2.18E-01	2.11E-01	2.20E-01
0.214	0.2165	0.219012	2.23E-01	2.05E-01	2.14E-01	2.17E-01	2.16E-01
0.193	0.212874	0.226471	2.20E-01	1.99E-01	2.11E-01	2.24E-01	2.13E-01
0.175	0.202785	0.198341	2.10E-01	2.10E-01	2.01E-01	1.96E-01	2.03E-01
0.171	0.199101	0.195101	2.06E-01	2.08E-01	1.97E-01	1.93E-01	1.99E-01
0.172	0.195417	0.193708	2.02E-01	2.05E-01	1.93E-01	1.92E-01	1.96E-01
0.175	0.191733	0.194161	1.99E-01	2.01E-01	1.90E-01	1.92E-01	1.92E-01
0.171	0.188049	0.196461	1.95E-01	1.96E-01	1.86E-01	1.94E-01	1.88E-01
0.159	0.184366	0.200607	1.91E-01	1.89E-01	1.82E-01	1.98E-01	1.84E-01
0.145	0.146344	0.16997	1.53E-01	1.72E-01	1.44E-01	1.68E-01	1.46E-01
0.144	0.142545	0.160105	1.49E-01	1.71E-01	1.40E-01	1.58E-01	1.43E-01
0.144	0.138746	0.152087	1.46E-01	1.67E-01	1.37E-01	1.50E-01	1.39E-01
0.144	0.134946	0.145915	1.42E-01	1.63E-01	1.33E-01	1.44E-01	1.35E-01
0.143	0.131147	0.14159	1.38E-01	1.58E-01	1.29E-01	1.39E-01	1.31E-01
0.126	0.127348	0.139111	1.34E-01	1.52E-01	1.25E-01	1.37E-01	1.28E-01
0.125	0.089903	0.128575	9.68E-02	1.10E-01	8.77E-02	1.26E-01	8.97E-02
0.124	0.085989	0.112085	9.29E-02	1.08E-01	8.38E-02	1.10E-01	8.59E-02
0.126	0.082074	0.097441	8.90E-02	1.05E-01	7.99E-02	9.53E-02	8.22E-02
0.122	0.07816	0.084644	8.51E-02	1.01E-01	7.60E-02	8.25E-02	7.84E-02
0.121	0.074245	0.073694	8.12E-02	9.59E-02	7.21E-02	7.15E-02	7.46E-02
0.085	0.070331	0.06459	7.72E-02	8.97E-02	6.81E-02	6.24E-02	7.08E-02
0.085	0.033462	0.074154	4.04E-02	2.30E-02	3.13E-02	7.20E-02	3.30E-02
0.084	0.029433	0.051039	3.63E-02	2.10E-02	2.73E-02	4.89E-02	2.92E-02

0.084	0.025403	0.02977	3.23E-02	1.80E-02	2.32E-02	2.76E-02	2.54E-02
0.079	0.021373	0.010348	2.83E-02	1.39E-02	1.92E-02	8.17E-03	2.17E-02
0.075	0.017343	-0.00723	2.43E-02	8.70E-03	1.52E-02	-9.41E-03	1.79E-02
0.049	0.013313	-0.02296	2.02E-02	2.45E-03	1.11E-02	-2.51E-02	1.41E-02
0.331	0.311405	0.265867	3.18E-01	2.75E-01	3.15E-01	2.70E-01	3.14E-01
0.332	0.307837	0.269252	3.15E-01	2.73E-01	3.12E-01	2.73E-01	3.10E-01
0.331	0.304268	0.274484	3.11E-01	2.70E-01	3.08E-01	2.78E-01	3.07E-01
0.331	0.3007	0.281562	3.08E-01	2.65E-01	3.05E-01	2.86E-01	3.03E-01
0.33	0.297131	0.290487	3.04E-01	2.60E-01	3.01E-01	2.95E-01	2.99E-01
0.314	0.293563	0.301258	3.00E-01	2.54E-01	2.98E-01	3.05E-01	2.95E-01
0.305	0.283185	0.259822	2.90E-01	2.71E-01	2.87E-01	2.64E-01	2.86E-01
0.306	0.279559	0.259895	2.86E-01	2.69E-01	2.84E-01	2.64E-01	2.82E-01
0.305	0.275933	0.261814	2.83E-01	2.66E-01	2.80E-01	2.66E-01	2.78E-01
0.303	0.272306	0.26558	2.79E-01	2.62E-01	2.76E-01	2.70E-01	2.74E-01
0.303	0.26868	0.271192	2.76E-01	2.57E-01	2.73E-01	2.75E-01	2.71E-01
0.267	0.265054	0.278651	2.72E-01	2.51E-01	2.69E-01	2.83E-01	2.67E-01
0.231	0.254964	0.250521	2.62E-01	2.62E-01	2.59E-01	2.55E-01	2.57E-01
0.232	0.251281	0.247281	2.58E-01	2.60E-01	2.55E-01	2.51E-01	2.54E-01
0.233	0.247597	0.245888	2.55E-01	2.57E-01	2.52E-01	2.50E-01	2.50E-01
0.231	0.243913	0.246341	2.51E-01	2.53E-01	2.48E-01	2.50E-01	2.46E-01
0.232	0.240229	0.248641	2.47E-01	2.48E-01	2.44E-01	2.53E-01	2.42E-01
0.192	0.236545	0.252787	2.43E-01	2.41E-01	2.41E-01	2.57E-01	2.39E-01
0.161	0.198524	0.22215	2.05E-01	2.25E-01	2.03E-01	2.26E-01	2.01E-01
0.16	0.194725	0.212285	2.02E-01	2.23E-01	1.99E-01	2.16E-01	1.97E-01
0.161	0.190925	0.204267	1.98E-01	2.20E-01	1.95E-01	2.08E-01	1.93E-01
0.159	0.187126	0.198095	1.94E-01	2.16E-01	1.91E-01	2.02E-01	1.89E-01
0.16	0.183327	0.193769	1.90E-01	2.10E-01	1.87E-01	1.98E-01	1.86E-01
0.138	0.179528	0.191291	1.86E-01	2.04E-01	1.84E-01	1.95E-01	1.82E-01
0.122	0.142083	0.180755	1.49E-01	1.62E-01	1.46E-01	1.85E-01	1.44E-01
0.123	0.138169	0.164264	1.45E-01	1.60E-01	1.42E-01	1.68E-01	1.40E-01
0.123	0.134254	0.149621	1.41E-01	1.57E-01	1.38E-01	1.54E-01	1.36E-01
0.122	0.130339	0.136824	1.37E-01	1.53E-01	1.34E-01	1.41E-01	1.33E-01
0.121	0.126425	0.125873	1.33E-01	1.48E-01	1.30E-01	1.30E-01	1.29E-01
0.096	0.12251	0.116769	1.29E-01	1.42E-01	1.27E-01	1.21E-01	1.25E-01
0.091	0.085642	0.126334	9.26E-02	7.52E-02	8.97E-02	1.30E-01	8.72E-02
0.09	0.081612	0.103219	8.85E-02	7.32E-02	8.56E-02	1.07E-01	8.34E-02
0.091	0.077583	0.08195	8.45E-02	7.02E-02	8.16E-02	8.60E-02	7.96E-02
0.09	0.073553	0.062528	8.05E-02	6.61E-02	7.76E-02	6.65E-02	7.59E-02
0.085	0.069523	0.044952	7.64E-02	6.09E-02	7.35E-02	4.90E-02	7.21E-02
0.053	0.065493	0.029223	7.24E-02	5.46E-02	6.95E-02	3.32E-02	6.83E-02
0.231	0.249018	0.20348	2.56E-01	2.12E-01	2.51E-01	2.06E-01	2.49E-01
0.232	0.24545	0.206865	2.52E-01	2.10E-01	2.48E-01	2.09E-01	2.46E-01
0.233	0.241881	0.212097	2.49E-01	2.07E-01	2.44E-01	2.14E-01	2.42E-01
0.231	0.238313	0.219175	2.45E-01	2.03E-01	2.40E-01	2.21E-01	2.38E-01
0.232	0.234745	0.2281	2.42E-01	1.98E-01	2.37E-01	2.30E-01	2.34E-01
0.226	0.231176	0.238872	2.38E-01	1.92E-01	2.33E-01	2.41E-01	2.31E-01
0.209	0.220798	0.197435	2.28E-01	2.09E-01	2.23E-01	2.00E-01	2.21E-01
0.208	0.217172	0.197508	2.24E-01	2.07E-01	2.19E-01	2.00E-01	2.17E-01

0.208	0.213546	0.199427	2.20E-01	2.04E-01	2.16E-01	2.02E-01	2.13E-01
0.207	0.20992	0.203193	2.17E-01	2.00E-01	2.12E-01	2.05E-01	2.10E-01
0.205	0.206293	0.208805	2.13E-01	1.95E-01	2.08E-01	2.11E-01	2.06E-01
0.184	0.202667	0.216264	2.10E-01	1.88E-01	2.05E-01	2.18E-01	2.02E-01
0.185	0.192578	0.188134	1.99E-01	2.00E-01	1.95E-01	1.90E-01	1.93E-01
0.184	0.188894	0.184894	1.96E-01	1.98E-01	1.91E-01	1.87E-01	1.89E-01
0.187	0.18521	0.183501	1.92E-01	1.95E-01	1.87E-01	1.86E-01	1.85E-01
0.183	0.181526	0.183954	1.88E-01	1.91E-01	1.84E-01	1.86E-01	1.81E-01
0.181	0.177842	0.186254	1.85E-01	1.85E-01	1.80E-01	1.88E-01	1.78E-01
0.167	0.174159	0.1904	1.81E-01	1.79E-01	1.76E-01	1.93E-01	1.74E-01
0.138	0.136137	0.159763	1.43E-01	1.62E-01	1.38E-01	1.62E-01	1.36E-01
0.139	0.132338	0.149898	1.39E-01	1.60E-01	1.34E-01	1.52E-01	1.32E-01
0.141	0.128539	0.14188	1.35E-01	1.57E-01	1.31E-01	1.44E-01	1.28E-01
0.136	0.124739	0.135708	1.32E-01	1.53E-01	1.27E-01	1.38E-01	1.25E-01
0.133	0.12094	0.131383	1.28E-01	1.48E-01	1.23E-01	1.34E-01	1.21E-01
0.115	0.117141	0.128904	1.24E-01	1.42E-01	1.19E-01	1.31E-01	1.17E-01
0.115	0.079696	0.118368	8.66E-02	1.00E-01	8.18E-02	1.20E-01	7.92E-02
0.114	0.075782	0.101878	8.27E-02	9.80E-02	7.79E-02	1.04E-01	7.54E-02
0.116	0.071867	0.087234	7.88E-02	9.50E-02	7.40E-02	8.94E-02	7.17E-02
0.112	0.067953	0.074437	7.49E-02	9.09E-02	7.01E-02	7.66E-02	6.79E-02
0.111	0.064038	0.063487	7.10E-02	8.57E-02	6.62E-02	6.56E-02	6.41E-02
0.074	0.060124	0.054383	6.70E-02	7.94E-02	6.22E-02	5.65E-02	6.03E-02
0.085	0.023256	0.063947	3.02E-02	1.28E-02	2.54E-02	6.61E-02	2.25E-02
0.086	0.019226	0.040832	2.61E-02	1.08E-02	2.13E-02	4.30E-02	1.87E-02
0.085	0.015196	0.019563	2.21E-02	7.78E-03	1.73E-02	2.17E-02	1.49E-02
0.085	0.011166	0.000141	1.81E-02	3.67E-03	1.33E-02	2.26E-03	1.12E-02
0.084	0.007136	-0.01743	1.41E-02	-1.51E-03	9.25E-03	-1.53E-02	7.39E-03
0.054	0.003106	-0.03316	1.00E-02	-7.76E-03	5.22E-03	-3.10E-02	3.62E-03
0.331	0.275108	0.22957	2.82E-01	2.38E-01	2.66E-01	2.20E-01	2.75E-01
0.329	0.27154	0.232955	2.78E-01	2.36E-01	2.62E-01	2.24E-01	2.71E-01
0.328	0.267971	0.238187	2.75E-01	2.33E-01	2.59E-01	2.29E-01	2.67E-01
0.327	0.264403	0.245265	2.71E-01	2.29E-01	2.55E-01	2.36E-01	2.64E-01
0.325	0.260834	0.25419	2.68E-01	2.24E-01	2.51E-01	2.45E-01	2.60E-01
0.316	0.257266	0.264961	2.64E-01	2.18E-01	2.48E-01	2.56E-01	2.56E-01
0.275	0.246888	0.223525	2.54E-01	2.35E-01	2.38E-01	2.14E-01	2.47E-01
0.274	0.243262	0.223598	2.50E-01	2.33E-01	2.34E-01	2.14E-01	2.43E-01
0.273	0.239636	0.225517	2.47E-01	2.30E-01	2.30E-01	2.16E-01	2.39E-01
0.271	0.23601	0.229283	2.43E-01	2.26E-01	2.27E-01	2.20E-01	2.35E-01
0.269	0.232383	0.234895	2.39E-01	2.21E-01	2.23E-01	2.26E-01	2.32E-01
0.241	0.228757	0.242354	2.36E-01	2.15E-01	2.19E-01	2.33E-01	2.28E-01
0.236	0.218667	0.214224	2.26E-01	2.26E-01	2.09E-01	2.05E-01	2.18E-01
0.237	0.214984	0.210984	2.22E-01	2.24E-01	2.06E-01	2.02E-01	2.15E-01
0.235	0.2113	0.209591	2.18E-01	2.21E-01	2.02E-01	2.00E-01	2.11E-01
0.234	0.207616	0.210044	2.15E-01	2.17E-01	1.98E-01	2.01E-01	2.07E-01
0.231	0.203932	0.212344	2.11E-01	2.11E-01	1.95E-01	2.03E-01	2.03E-01
0.215	0.200249	0.21649	2.07E-01	2.05E-01	1.91E-01	2.07E-01	1.99E-01
0.171	0.162227	0.185853	1.69E-01	1.88E-01	1.53E-01	1.76E-01	1.62E-01
0.171	0.158428	0.175988	1.65E-01	1.86E-01	1.49E-01	1.67E-01	1.58E-01

0.169	0.154629	0.16797	1.62E-01	1.83E-01	1.45E-01	1.59E-01	1.54E-01
0.171	0.150829	0.161798	1.58E-01	1.79E-01	1.41E-01	1.52E-01	1.50E-01
0.17	0.14703	0.157473	1.54E-01	1.74E-01	1.38E-01	1.48E-01	1.46E-01
0.148	0.143231	0.154994	1.50E-01	1.68E-01	1.34E-01	1.46E-01	1.43E-01
0.122	0.105786	0.144458	1.13E-01	1.26E-01	9.64E-02	1.35E-01	1.05E-01
0.122	0.101872	0.127968	1.09E-01	1.24E-01	9.25E-02	1.19E-01	1.01E-01
0.123	0.097957	0.113324	1.05E-01	1.21E-01	8.86E-02	1.04E-01	9.73E-02
0.122	0.094043	0.100527	1.01E-01	1.17E-01	8.47E-02	9.11E-02	9.35E-02
0.124	0.090128	0.089576	9.70E-02	1.12E-01	8.08E-02	8.02E-02	8.98E-02
0.103	0.086214	0.080472	9.31E-02	1.06E-01	7.68E-02	7.11E-02	8.60E-02
0.085	0.049345	0.090037	5.63E-02	3.89E-02	4.00E-02	8.07E-02	4.81E-02
0.084	0.045316	0.066922	5.22E-02	3.69E-02	3.59E-02	5.75E-02	4.43E-02
0.085	0.041286	0.045653	4.82E-02	3.39E-02	3.19E-02	3.63E-02	4.06E-02
0.084	0.037256	0.026231	4.42E-02	2.98E-02	2.79E-02	1.69E-02	3.68E-02
0.079	0.033226	0.008656	4.01E-02	2.46E-02	2.38E-02	-7.22E-04	3.30E-02
0.051	0.029196	-0.00707	3.61E-02	1.83E-02	1.98E-02	-1.65E-02	2.93E-02
0.431	0.327288	0.28175	3.34E-01	2.90E-01	3.24E-01	2.79E-01	3.26E-01
0.432	0.32372	0.285135	3.31E-01	2.88E-01	3.21E-01	2.82E-01	3.23E-01
0.429	0.320151	0.290367	3.27E-01	2.85E-01	3.17E-01	2.87E-01	3.19E-01
0.43	0.316583	0.297445	3.24E-01	2.81E-01	3.13E-01	2.94E-01	3.15E-01
0.429	0.313014	0.30637	3.20E-01	2.76E-01	3.10E-01	3.03E-01	3.11E-01
0.411	0.309446	0.317141	3.16E-01	2.70E-01	3.06E-01	3.14E-01	3.07E-01
0.377	0.299068	0.275705	3.06E-01	2.87E-01	2.96E-01	2.73E-01	2.98E-01
0.376	0.295442	0.275778	3.02E-01	2.85E-01	2.92E-01	2.73E-01	2.94E-01
0.369	0.291815	0.277697	2.99E-01	2.82E-01	2.89E-01	2.75E-01	2.90E-01
0.375	0.288189	0.281463	2.95E-01	2.78E-01	2.85E-01	2.78E-01	2.87E-01
0.371	0.284563	0.287075	2.91E-01	2.73E-01	2.81E-01	2.84E-01	2.83E-01
0.348	0.280937	0.294534	2.88E-01	2.67E-01	2.78E-01	2.91E-01	2.79E-01
0.291	0.270847	0.266404	2.78E-01	2.78E-01	2.68E-01	2.63E-01	2.70E-01
0.292	0.267164	0.263164	2.74E-01	2.76E-01	2.64E-01	2.60E-01	2.66E-01
0.291	0.26348	0.261771	2.70E-01	2.73E-01	2.60E-01	2.59E-01	2.62E-01
0.29	0.259796	0.262224	2.67E-01	2.69E-01	2.57E-01	2.59E-01	2.58E-01
0.291	0.256112	0.264524	2.63E-01	2.64E-01	2.53E-01	2.61E-01	2.55E-01
0.253	0.252428	0.26867	2.59E-01	2.57E-01	2.49E-01	2.65E-01	2.51E-01
0.172	0.214407	0.238033	2.21E-01	2.41E-01	2.11E-01	2.35E-01	2.13E-01
0.175	0.210608	0.228168	2.18E-01	2.39E-01	2.07E-01	2.25E-01	2.09E-01
0.17	0.206808	0.22015	2.14E-01	2.36E-01	2.04E-01	2.17E-01	2.05E-01
0.176	0.203009	0.213978	2.10E-01	2.31E-01	2.00E-01	2.11E-01	2.02E-01
0.17	0.19921	0.209652	2.06E-01	2.26E-01	1.96E-01	2.06E-01	1.98E-01
0.145	0.195411	0.207174	2.02E-01	2.20E-01	1.92E-01	2.04E-01	1.94E-01
0.122	0.157966	0.196637	1.65E-01	1.78E-01	1.55E-01	1.93E-01	1.56E-01
0.122	0.154051	0.180147	1.61E-01	1.76E-01	1.51E-01	1.77E-01	1.52E-01
0.12	0.150137	0.165504	1.57E-01	1.73E-01	1.47E-01	1.62E-01	1.49E-01
0.121	0.146222	0.152707	1.53E-01	1.69E-01	1.43E-01	1.50E-01	1.45E-01
0.12	0.142308	0.141756	1.49E-01	1.64E-01	1.39E-01	1.39E-01	1.41E-01
0.092	0.138393	0.132652	1.45E-01	1.58E-01	1.35E-01	1.29E-01	1.37E-01
0.079	0.101525	0.142217	1.08E-01	9.11E-02	9.83E-02	1.39E-01	9.94E-02
0.078	0.097495	0.119102	1.04E-01	8.91E-02	9.43E-02	1.16E-01	9.56E-02

0.075	0.093466	0.097833	1.00E-01	8.61E-02	9.03E-02	9.47E-02	9.19E-02
0.074	0.089436	0.078411	9.64E-02	8.19E-02	8.63E-02	7.52E-02	8.81E-02
0.069	0.085406	0.060835	9.23E-02	7.68E-02	8.22E-02	5.77E-02	8.43E-02
0.043	0.081376	0.045106	8.83E-02	7.05E-02	7.82E-02	4.19E-02	8.06E-02
0.42	0.321815	0.276277	3.29E-01	2.85E-01	3.25E-01	2.80E-01	3.25E-01
0.421	0.318247	0.279662	3.25E-01	2.83E-01	3.22E-01	2.83E-01	3.22E-01
0.422	0.314678	0.284894	3.22E-01	2.80E-01	3.18E-01	2.88E-01	3.18E-01
0.418	0.31111	0.291972	3.18E-01	2.76E-01	3.14E-01	2.95E-01	3.14E-01
0.415	0.307541	0.300897	3.14E-01	2.71E-01	3.11E-01	3.04E-01	3.10E-01
0.409	0.303973	0.311668	3.11E-01	2.64E-01	3.07E-01	3.15E-01	3.07E-01
0.348	0.293595	0.270232	3.01E-01	2.82E-01	2.97E-01	2.74E-01	2.97E-01
0.347	0.289969	0.270305	2.97E-01	2.80E-01	2.93E-01	2.74E-01	2.93E-01
0.345	0.286343	0.272224	2.93E-01	2.77E-01	2.90E-01	2.76E-01	2.90E-01
0.347	0.282717	0.27599	2.90E-01	2.73E-01	2.86E-01	2.79E-01	2.86E-01
0.341	0.27909	0.281602	2.86E-01	2.68E-01	2.82E-01	2.85E-01	2.82E-01
0.308	0.275464	0.289061	2.82E-01	2.61E-01	2.79E-01	2.92E-01	2.78E-01
0.272	0.265374	0.260931	2.72E-01	2.72E-01	2.69E-01	2.64E-01	2.69E-01
0.269	0.261691	0.257691	2.69E-01	2.70E-01	2.65E-01	2.61E-01	2.65E-01
0.268	0.258007	0.256298	2.65E-01	2.67E-01	2.61E-01	2.60E-01	2.61E-01
0.268	0.254323	0.256751	2.61E-01	2.63E-01	2.58E-01	2.60E-01	2.57E-01
0.265	0.250639	0.259051	2.58E-01	2.58E-01	2.54E-01	2.62E-01	2.54E-01
0.224	0.246956	0.263197	2.54E-01	2.52E-01	2.50E-01	2.67E-01	2.50E-01
0.201	0.208934	0.23256	2.16E-01	2.35E-01	2.12E-01	2.36E-01	2.12E-01
0.199	0.205135	0.222695	2.12E-01	2.33E-01	2.08E-01	2.26E-01	2.08E-01
0.198	0.201336	0.214677	2.08E-01	2.30E-01	2.05E-01	2.18E-01	2.04E-01
0.198	0.197536	0.208505	2.04E-01	2.26E-01	2.01E-01	2.12E-01	2.01E-01
0.195	0.193737	0.20418	2.01E-01	2.21E-01	1.97E-01	2.08E-01	1.97E-01
0.162	0.189938	0.201701	1.97E-01	2.15E-01	1.93E-01	2.05E-01	1.93E-01
0.156	0.152493	0.191165	1.59E-01	1.73E-01	1.56E-01	1.95E-01	1.55E-01
0.157	0.148579	0.174675	1.56E-01	1.71E-01	1.52E-01	1.78E-01	1.52E-01
0.157	0.144664	0.160031	1.52E-01	1.68E-01	1.48E-01	1.63E-01	1.48E-01
0.158	0.14075	0.147234	1.48E-01	1.64E-01	1.44E-01	1.51E-01	1.44E-01
0.159	0.136835	0.136283	1.44E-01	1.58E-01	1.40E-01	1.40E-01	1.40E-01
0.119	0.132921	0.127179	1.40E-01	1.52E-01	1.36E-01	1.31E-01	1.36E-01
0.099	0.096052	0.136744	1.03E-01	8.56E-02	9.94E-02	1.40E-01	9.86E-02
0.101	0.092023	0.113629	9.90E-02	8.36E-02	9.54E-02	1.17E-01	9.48E-02
0.098	0.087993	0.09236	9.49E-02	8.06E-02	9.13E-02	9.57E-02	9.10E-02
0.099	0.083963	0.072938	9.09E-02	7.65E-02	8.73E-02	7.63E-02	8.73E-02
0.098	0.079933	0.055363	8.69E-02	7.13E-02	8.33E-02	5.87E-02	8.35E-02
0.064	0.075903	0.039633	8.29E-02	6.50E-02	7.92E-02	4.30E-02	7.97E-02
0.157	0.216496	0.170958	2.12E-01	1.80E-01	2.26E-01	1.80E-01	2.16E-01
0.158	0.212927	0.174343	2.09E-01	1.78E-01	2.22E-01	1.84E-01	2.12E-01
0.156	0.209359	0.179575	2.05E-01	1.75E-01	2.19E-01	1.89E-01	2.09E-01
0.157	0.205791	0.186653	2.02E-01	1.70E-01	2.15E-01	1.96E-01	2.05E-01
0.156	0.202222	0.195578	1.98E-01	1.65E-01	2.12E-01	2.05E-01	2.01E-01
0.146	0.198654	0.206349	1.94E-01	1.59E-01	2.08E-01	2.16E-01	1.97E-01
0.132	0.188275	0.164913	1.84E-01	1.76E-01	1.98E-01	1.74E-01	1.88E-01
0.133	0.184649	0.164985	1.80E-01	1.75E-01	1.94E-01	1.74E-01	1.84E-01

0.134	0.181023	0.166905	1.77E-01	1.71E-01	1.90E-01	1.76E-01	1.80E-01
0.133	0.177397	0.17067	1.73E-01	1.67E-01	1.87E-01	1.80E-01	1.76E-01
0.133	0.173771	0.176283	1.70E-01	1.62E-01	1.83E-01	1.86E-01	1.73E-01
0.112	0.170145	0.183741	1.66E-01	1.56E-01	1.79E-01	1.93E-01	1.69E-01
0.111	0.160055	0.155612	1.56E-01	1.67E-01	1.69E-01	1.65E-01	1.59E-01
0.112	0.156371	0.152372	1.52E-01	1.65E-01	1.66E-01	1.62E-01	1.56E-01
0.109	0.152688	0.150978	1.48E-01	1.62E-01	1.62E-01	1.60E-01	1.52E-01
0.111	0.149004	0.151432	1.45E-01	1.58E-01	1.58E-01	1.61E-01	1.48E-01
0.11	0.14532	0.153731	1.41E-01	1.53E-01	1.55E-01	1.63E-01	1.44E-01
0.086	0.141636	0.157878	1.37E-01	1.47E-01	1.51E-01	1.67E-01	1.41E-01
0.083	0.103614	0.127241	9.94E-02	1.30E-01	1.13E-01	1.37E-01	1.03E-01
0.081	0.099815	0.117376	9.56E-02	1.28E-01	1.09E-01	1.27E-01	9.89E-02
0.082	0.096016	0.109357	9.18E-02	1.25E-01	1.05E-01	1.19E-01	9.51E-02
0.081	0.092217	0.103186	8.80E-02	1.21E-01	1.02E-01	1.13E-01	9.14E-02
0.08	0.088418	0.09886	8.42E-02	1.15E-01	9.77E-02	1.08E-01	8.76E-02
0.051	0.084619	0.096381	8.04E-02	1.09E-01	9.39E-02	1.06E-01	8.38E-02
0.051	0.047174	0.085845	4.30E-02	6.75E-02	5.65E-02	9.52E-02	4.60E-02
0.05	0.043259	0.069355	3.90E-02	6.55E-02	5.26E-02	7.87E-02	4.22E-02
0.049	0.039345	0.054712	3.51E-02	6.25E-02	4.87E-02	6.40E-02	3.84E-02
0.051	0.03543	0.041915	3.12E-02	5.84E-02	4.47E-02	5.12E-02	3.46E-02
0.049	0.031516	0.030964	2.73E-02	5.32E-02	4.08E-02	4.03E-02	3.09E-02
0.023	0.027601	0.02186	2.34E-02	4.69E-02	3.69E-02	3.12E-02	2.71E-02
0.021	-0.00927	0.031425	-1.35E-02	-1.97E-02	5.19E-05	4.07E-02	-1.08E-02
0.017	-0.0133	0.00831	-1.75E-02	-2.17E-02	-3.98E-03	1.76E-02	-1.45E-02
0.018	-0.01733	-0.01296	-2.16E-02	-2.47E-02	-8.01E-03	-3.64E-03	-1.83E-02
0.015	-0.02136	-0.03238	-2.56E-02	-2.88E-02	-1.20E-02	-2.31E-02	-2.21E-02
0.014	-0.02539	-0.04996	-2.96E-02	-3.40E-02	-1.61E-02	-4.06E-02	-2.59E-02
0.006	-0.02942	-0.06569	-3.36E-02	-4.03E-02	-2.01E-02	-5.64E-02	-2.96E-02
0.237	0.242586	0.197047	2.38E-01	2.06E-01	2.40E-01	1.95E-01	2.43E-01
0.236	0.239017	0.200433	2.35E-01	2.04E-01	2.37E-01	1.98E-01	2.39E-01
0.237	0.235449	0.205665	2.31E-01	2.01E-01	2.33E-01	2.03E-01	2.36E-01
0.235	0.23188	0.212743	2.28E-01	1.97E-01	2.30E-01	2.11E-01	2.32E-01
0.233	0.228312	0.221668	2.24E-01	1.91E-01	2.26E-01	2.19E-01	2.28E-01
0.219	0.224744	0.232439	2.21E-01	1.85E-01	2.23E-01	2.30E-01	2.24E-01
0.201	0.214365	0.191003	2.10E-01	2.03E-01	2.12E-01	1.89E-01	2.15E-01
0.2	0.210739	0.191075	2.07E-01	2.01E-01	2.09E-01	1.89E-01	2.11E-01
0.2	0.207113	0.192995	2.03E-01	1.98E-01	2.05E-01	1.91E-01	2.07E-01
0.198	0.203487	0.19676	1.99E-01	1.93E-01	2.01E-01	1.95E-01	2.04E-01
0.199	0.199861	0.202373	1.96E-01	1.88E-01	1.98E-01	2.00E-01	2.00E-01
0.173	0.196235	0.209831	1.92E-01	1.82E-01	1.94E-01	2.08E-01	1.96E-01
0.161	0.186145	0.181702	1.82E-01	1.93E-01	1.84E-01	1.80E-01	1.87E-01
0.16	0.182461	0.178462	1.78E-01	1.91E-01	1.80E-01	1.76E-01	1.83E-01
0.159	0.178777	0.177068	1.75E-01	1.88E-01	1.77E-01	1.75E-01	1.79E-01
0.155	0.175094	0.177522	1.71E-01	1.84E-01	1.73E-01	1.75E-01	1.75E-01
0.153	0.17141	0.179821	1.67E-01	1.79E-01	1.69E-01	1.78E-01	1.71E-01
0.139	0.167726	0.183968	1.64E-01	1.73E-01	1.66E-01	1.82E-01	1.68E-01
0.129	0.129704	0.153331	1.25E-01	1.56E-01	1.28E-01	1.51E-01	1.30E-01
0.128	0.125905	0.143466	1.22E-01	1.54E-01	1.24E-01	1.41E-01	1.26E-01

0.128	0.122106	0.135447	1.18E-01	1.51E-01	1.20E-01	1.33E-01	1.22E-01
0.125	0.118307	0.129275	1.14E-01	1.47E-01	1.16E-01	1.27E-01	1.18E-01
0.125	0.114508	0.12495	1.10E-01	1.42E-01	1.12E-01	1.23E-01	1.15E-01
0.101	0.110709	0.122471	1.06E-01	1.35E-01	1.09E-01	1.20E-01	1.11E-01
0.094	0.073264	0.111935	6.90E-02	9.36E-02	7.11E-02	1.10E-01	7.31E-02
0.095	0.069349	0.095445	6.51E-02	9.16E-02	6.72E-02	9.33E-02	6.93E-02
0.095	0.065435	0.080802	6.12E-02	8.86E-02	6.33E-02	7.86E-02	6.55E-02
0.096	0.06152	0.068005	5.73E-02	8.44E-02	5.93E-02	6.58E-02	6.17E-02
0.094	0.057606	0.057054	5.34E-02	7.93E-02	5.54E-02	5.49E-02	5.80E-02
0.067	0.053691	0.04795	4.95E-02	7.30E-02	5.15E-02	4.58E-02	5.42E-02
0.051	0.016823	0.057515	1.26E-02	6.35E-03	1.46E-02	5.53E-02	1.63E-02
0.049	0.012793	0.0344	8.57E-03	4.39E-03	1.06E-02	3.22E-02	1.26E-02
0.044	0.008763	0.013131	4.54E-03	1.35E-03	6.59E-03	1.10E-02	8.79E-03
0.039	0.004733	-0.00629	5.11E-04	-2.76E-03	2.56E-03	-8.47E-03	5.02E-03
0.035	0.000703	-0.02387	-3.52E-03	-7.94E-03	-1.47E-03	-2.60E-02	1.25E-03
0.017	-0.00333	-0.0396	-7.55E-03	-1.42E-02	-5.50E-03	-4.18E-02	-2.52E-03
0.321	0.294766	0.249227	2.91E-01	2.58E-01	2.99E-01	2.53E-01	2.97E-01
0.319	0.291197	0.252613	2.87E-01	2.56E-01	2.95E-01	2.57E-01	2.94E-01
0.32	0.287629	0.257844	2.83E-01	2.53E-01	2.92E-01	2.62E-01	2.90E-01
0.319	0.28406	0.264923	2.80E-01	2.49E-01	2.88E-01	2.69E-01	2.86E-01
0.321	0.280492	0.273848	2.76E-01	2.44E-01	2.85E-01	2.78E-01	2.82E-01
0.309	0.276923	0.284619	2.73E-01	2.37E-01	2.81E-01	2.89E-01	2.79E-01
0.283	0.266545	0.243182	2.62E-01	2.55E-01	2.71E-01	2.47E-01	2.69E-01
0.283	0.262919	0.243255	2.59E-01	2.53E-01	2.67E-01	2.47E-01	2.65E-01
0.28	0.259293	0.245174	2.55E-01	2.50E-01	2.63E-01	2.49E-01	2.62E-01
0.279	0.255667	0.24894	2.51E-01	2.46E-01	2.60E-01	2.53E-01	2.58E-01
0.276	0.252041	0.254552	2.48E-01	2.40E-01	2.56E-01	2.59E-01	2.54E-01
0.243	0.248415	0.262011	2.44E-01	2.34E-01	2.52E-01	2.66E-01	2.50E-01
0.199	0.238325	0.233881	2.34E-01	2.45E-01	2.42E-01	2.38E-01	2.41E-01
0.195	0.234641	0.230642	2.30E-01	2.43E-01	2.39E-01	2.35E-01	2.37E-01
0.194	0.230957	0.229248	2.27E-01	2.40E-01	2.35E-01	2.33E-01	2.33E-01
0.196	0.227274	0.229701	2.23E-01	2.36E-01	2.31E-01	2.34E-01	2.29E-01
0.193	0.22359	0.232001	2.19E-01	2.31E-01	2.28E-01	2.36E-01	2.26E-01
0.157	0.219906	0.236147	2.16E-01	2.25E-01	2.24E-01	2.40E-01	2.22E-01
0.141	0.181884	0.205511	1.78E-01	2.08E-01	1.86E-01	2.10E-01	1.84E-01
0.142	0.178085	0.195646	1.74E-01	2.06E-01	1.82E-01	2.00E-01	1.80E-01
0.143	0.174286	0.187627	1.70E-01	2.03E-01	1.78E-01	1.92E-01	1.76E-01
0.139	0.170487	0.181455	1.66E-01	1.99E-01	1.75E-01	1.85E-01	1.73E-01
0.135	0.166688	0.17713	1.62E-01	1.94E-01	1.71E-01	1.81E-01	1.69E-01
0.108	0.162888	0.174651	1.59E-01	1.87E-01	1.67E-01	1.79E-01	1.65E-01
0.092	0.125444	0.164115	1.21E-01	1.46E-01	1.29E-01	1.68E-01	1.27E-01
0.091	0.121529	0.147625	1.17E-01	1.44E-01	1.26E-01	1.52E-01	1.23E-01
0.09	0.117615	0.132981	1.13E-01	1.41E-01	1.22E-01	1.37E-01	1.20E-01
0.089	0.1137	0.120184	1.09E-01	1.37E-01	1.18E-01	1.24E-01	1.16E-01
0.084	0.109785	0.109234	1.06E-01	1.31E-01	1.14E-01	1.13E-01	1.12E-01
0.061	0.105871	0.10013	1.02E-01	1.25E-01	1.10E-01	1.04E-01	1.08E-01
0.051	0.069003	0.109695	6.48E-02	5.85E-02	7.30E-02	1.14E-01	7.05E-02
0.049	0.064973	0.086579	6.08E-02	5.66E-02	6.90E-02	9.06E-02	6.68E-02

0.048	0.060943	0.065311	5.67E-02	5.35E-02	6.50E-02	6.93E-02	6.30E-02
0.047	0.056913	0.045889	5.27E-02	4.94E-02	6.09E-02	4.99E-02	5.92E-02
0.039	0.052883	0.028313	4.87E-02	4.42E-02	5.69E-02	3.23E-02	5.54E-02
0.019	0.048853	0.012584	4.46E-02	3.80E-02	5.29E-02	1.66E-02	5.17E-02
0.225	0.232379	0.18684	2.28E-01	1.95E-01	2.35E-01	1.89E-01	2.33E-01
0.224	0.22881	0.190226	2.25E-01	1.94E-01	2.31E-01	1.92E-01	2.29E-01
0.223	0.225242	0.195458	2.21E-01	1.90E-01	2.27E-01	1.98E-01	2.25E-01
0.22	0.221674	0.202536	2.17E-01	1.86E-01	2.24E-01	2.05E-01	2.21E-01
0.221	0.218105	0.211461	2.14E-01	1.81E-01	2.20E-01	2.14E-01	2.18E-01
0.206	0.214537	0.222232	2.10E-01	1.75E-01	2.17E-01	2.24E-01	2.14E-01
0.203	0.204158	0.180796	2.00E-01	1.92E-01	2.06E-01	1.83E-01	2.04E-01
0.201	0.200532	0.180868	1.96E-01	1.90E-01	2.03E-01	1.83E-01	2.01E-01
0.2	0.196906	0.182788	1.93E-01	1.87E-01	1.99E-01	1.85E-01	1.97E-01
0.203	0.19328	0.186553	1.89E-01	1.83E-01	1.95E-01	1.89E-01	1.93E-01
0.201	0.189654	0.192166	1.85E-01	1.78E-01	1.92E-01	1.94E-01	1.89E-01
0.173	0.186028	0.199624	1.82E-01	1.72E-01	1.88E-01	2.02E-01	1.86E-01
0.153	0.175938	0.171495	1.72E-01	1.83E-01	1.78E-01	1.74E-01	1.76E-01
0.156	0.172254	0.168255	1.68E-01	1.81E-01	1.74E-01	1.70E-01	1.72E-01
0.157	0.168571	0.166861	1.64E-01	1.78E-01	1.71E-01	1.69E-01	1.68E-01
0.158	0.164887	0.167315	1.61E-01	1.74E-01	1.67E-01	1.69E-01	1.65E-01
0.156	0.161203	0.169614	1.57E-01	1.69E-01	1.63E-01	1.72E-01	1.61E-01
0.133	0.157519	0.173761	1.53E-01	1.62E-01	1.60E-01	1.76E-01	1.57E-01
0.115	0.119497	0.143124	1.15E-01	1.46E-01	1.22E-01	1.45E-01	1.19E-01
0.116	0.115698	0.133259	1.11E-01	1.44E-01	1.18E-01	1.35E-01	1.16E-01
0.114	0.111899	0.12524	1.08E-01	1.41E-01	1.14E-01	1.27E-01	1.12E-01
0.113	0.1081	0.119069	1.04E-01	1.37E-01	1.10E-01	1.21E-01	1.08E-01
0.112	0.104301	0.114743	1.00E-01	1.31E-01	1.06E-01	1.17E-01	1.04E-01
0.089	0.100502	0.112264	9.63E-02	1.25E-01	1.03E-01	1.14E-01	1.00E-01
0.086	0.063057	0.101728	5.88E-02	8.34E-02	6.52E-02	1.04E-01	6.26E-02
0.087	0.059142	0.085238	5.49E-02	8.14E-02	6.13E-02	8.74E-02	5.88E-02
0.09	0.055228	0.070595	5.10E-02	7.84E-02	5.74E-02	7.27E-02	5.50E-02
0.083	0.051313	0.057798	4.71E-02	7.42E-02	5.34E-02	5.99E-02	5.12E-02
0.081	0.047399	0.046847	4.32E-02	6.91E-02	4.95E-02	4.90E-02	4.75E-02
0.051	0.043484	0.037743	3.93E-02	6.28E-02	4.56E-02	3.99E-02	4.37E-02
0.031	0.006616	0.047308	2.40E-03	-3.85E-03	8.74E-03	4.94E-02	5.83E-03
0.032	0.002586	0.024193	-1.63E-03	-5.82E-03	4.71E-03	2.63E-02	2.06E-03
0.03	-0.00144	0.002924	-5.66E-03	-8.86E-03	6.79E-04	5.05E-03	-1.71E-03
0.03	-0.00547	-0.0165	-9.69E-03	-1.30E-02	-3.35E-03	-1.44E-02	-5.48E-03
0.029	-0.0095	-0.03407	-1.37E-02	-1.81E-02	-7.38E-03	-3.20E-02	-9.25E-03
0.01	-0.01353	-0.0498	-1.77E-02	-2.44E-02	-1.14E-02	-4.77E-02	-1.30E-02
0.329	0.258469	0.21293	2.54E-01	2.22E-01	2.49E-01	2.04E-01	2.58E-01
0.33	0.2549	0.216316	2.51E-01	2.20E-01	2.46E-01	2.07E-01	2.55E-01
0.33	0.251332	0.221547	2.47E-01	2.17E-01	2.42E-01	2.12E-01	2.51E-01
0.325	0.247763	0.228626	2.44E-01	2.12E-01	2.38E-01	2.19E-01	2.47E-01
0.324	0.244195	0.237551	2.40E-01	2.07E-01	2.35E-01	2.28E-01	2.43E-01
0.303	0.240627	0.248322	2.36E-01	2.01E-01	2.31E-01	2.39E-01	2.40E-01
0.269	0.230248	0.206886	2.26E-01	2.18E-01	2.21E-01	1.98E-01	2.30E-01
0.268	0.226622	0.206958	2.22E-01	2.16E-01	2.17E-01	1.98E-01	2.26E-01

0.265	0.222996	0.208878	2.19E-01	2.13E-01	2.14E-01	2.00E-01	2.22E-01
0.263	0.21937	0.212643	2.15E-01	2.09E-01	2.10E-01	2.03E-01	2.19E-01
0.26	0.215744	0.218256	2.12E-01	2.04E-01	2.06E-01	2.09E-01	2.15E-01
0.221	0.212118	0.225714	2.08E-01	1.98E-01	2.03E-01	2.16E-01	2.11E-01
0.201	0.202028	0.197585	1.98E-01	2.09E-01	1.93E-01	1.88E-01	2.02E-01
0.201	0.198344	0.194345	1.94E-01	2.07E-01	1.89E-01	1.85E-01	1.98E-01
0.2	0.19466	0.192951	1.90E-01	2.04E-01	1.85E-01	1.84E-01	1.94E-01
0.2	0.190977	0.193405	1.87E-01	2.00E-01	1.82E-01	1.84E-01	1.90E-01
0.199	0.187293	0.195704	1.83E-01	1.95E-01	1.78E-01	1.86E-01	1.87E-01
0.161	0.183609	0.199851	1.79E-01	1.89E-01	1.74E-01	1.90E-01	1.83E-01
0.141	0.145587	0.169214	1.41E-01	1.72E-01	1.36E-01	1.60E-01	1.45E-01
0.139	0.141788	0.159349	1.38E-01	1.70E-01	1.32E-01	1.50E-01	1.41E-01
0.14	0.137989	0.15133	1.34E-01	1.67E-01	1.29E-01	1.42E-01	1.37E-01
0.14	0.13419	0.145158	1.30E-01	1.63E-01	1.25E-01	1.36E-01	1.34E-01
0.139	0.130391	0.140833	1.26E-01	1.57E-01	1.21E-01	1.31E-01	1.30E-01
0.115	0.126592	0.138354	1.22E-01	1.51E-01	1.17E-01	1.29E-01	1.26E-01
0.095	0.089147	0.127818	8.49E-02	1.09E-01	7.98E-02	1.18E-01	8.82E-02
0.094	0.085232	0.111328	8.10E-02	1.07E-01	7.59E-02	1.02E-01	8.44E-02
0.093	0.081318	0.096685	7.71E-02	1.04E-01	7.19E-02	8.73E-02	8.07E-02
0.091	0.077403	0.083887	7.32E-02	1.00E-01	6.80E-02	7.45E-02	7.69E-02
0.09	0.073489	0.072937	6.93E-02	9.52E-02	6.41E-02	6.36E-02	7.31E-02
0.061	0.069574	0.063833	6.54E-02	8.89E-02	6.02E-02	5.45E-02	6.94E-02
0.059	0.032706	0.073398	2.85E-02	2.22E-02	2.33E-02	6.40E-02	3.15E-02
0.06	0.028676	0.050283	2.45E-02	2.03E-02	1.93E-02	4.09E-02	2.77E-02
0.055	0.024646	0.029014	2.04E-02	1.72E-02	1.53E-02	1.96E-02	2.39E-02
0.053	0.020616	0.009592	1.64E-02	1.31E-02	1.12E-02	2.19E-04	2.02E-02
0.051	0.016586	-0.00798	1.24E-02	7.94E-03	7.21E-03	-1.74E-02	1.64E-02
0.022	0.012557	-0.02371	8.34E-03	1.69E-03	3.18E-03	-3.31E-02	1.26E-02
0.416	0.310649	0.26511	3.06E-01	2.74E-01	3.07E-01	2.62E-01	3.10E-01
0.417	0.30708	0.268496	3.03E-01	2.72E-01	3.04E-01	2.65E-01	3.06E-01
0.415	0.303512	0.273727	2.99E-01	2.69E-01	3.00E-01	2.71E-01	3.02E-01
0.41	0.299943	0.280806	2.96E-01	2.65E-01	2.97E-01	2.78E-01	2.98E-01
0.41	0.296375	0.289731	2.92E-01	2.59E-01	2.93E-01	2.87E-01	2.95E-01
0.398	0.292806	0.300502	2.89E-01	2.53E-01	2.90E-01	2.97E-01	2.91E-01
0.322	0.282428	0.259065	2.78E-01	2.71E-01	2.79E-01	2.56E-01	2.81E-01
0.323	0.278802	0.259138	2.75E-01	2.69E-01	2.76E-01	2.56E-01	2.78E-01
0.321	0.275176	0.261057	2.71E-01	2.66E-01	2.72E-01	2.58E-01	2.74E-01
0.32	0.27155	0.264823	2.67E-01	2.62E-01	2.68E-01	2.62E-01	2.70E-01
0.32	0.267924	0.270435	2.64E-01	2.56E-01	2.65E-01	2.67E-01	2.66E-01
0.289	0.264298	0.277894	2.60E-01	2.50E-01	2.61E-01	2.75E-01	2.62E-01
0.251	0.254208	0.249764	2.50E-01	2.61E-01	2.51E-01	2.47E-01	2.53E-01
0.252	0.250524	0.246525	2.46E-01	2.59E-01	2.47E-01	2.43E-01	2.49E-01
0.253	0.24684	0.245131	2.43E-01	2.56E-01	2.44E-01	2.42E-01	2.45E-01
0.249	0.243157	0.245584	2.39E-01	2.52E-01	2.40E-01	2.42E-01	2.42E-01
0.25	0.239473	0.247884	2.35E-01	2.47E-01	2.36E-01	2.45E-01	2.38E-01
0.191	0.235789	0.25203	2.32E-01	2.41E-01	2.33E-01	2.49E-01	2.34E-01
0.161	0.197767	0.221394	1.94E-01	2.24E-01	1.95E-01	2.18E-01	1.96E-01
0.159	0.193968	0.211529	1.90E-01	2.22E-01	1.91E-01	2.08E-01	1.92E-01

0.16	0.190169	0.20351	1.86E-01	2.19E-01	1.87E-01	2.00E-01	1.89E-01
0.159	0.18637	0.197338	1.82E-01	2.15E-01	1.83E-01	1.94E-01	1.85E-01
0.159	0.182571	0.193013	1.78E-01	2.10E-01	1.79E-01	1.90E-01	1.81E-01
0.133	0.178771	0.190534	1.75E-01	2.03E-01	1.76E-01	1.87E-01	1.77E-01
0.101	0.141327	0.179998	1.37E-01	1.62E-01	1.38E-01	1.77E-01	1.40E-01
0.101	0.137412	0.163508	1.33E-01	1.60E-01	1.34E-01	1.60E-01	1.36E-01
0.1	0.133497	0.148864	1.29E-01	1.57E-01	1.30E-01	1.46E-01	1.32E-01
0.099	0.129583	0.136067	1.25E-01	1.53E-01	1.26E-01	1.33E-01	1.28E-01
0.098	0.125668	0.125117	1.21E-01	1.47E-01	1.22E-01	1.22E-01	1.24E-01
0.066	0.121754	0.116013	1.18E-01	1.41E-01	1.19E-01	1.13E-01	1.21E-01
0.054	0.084886	0.125578	8.07E-02	7.44E-02	8.17E-02	1.22E-01	8.28E-02
0.055	0.080856	0.102462	7.66E-02	7.25E-02	7.77E-02	9.93E-02	7.90E-02
0.053	0.076826	0.081194	7.26E-02	6.94E-02	7.37E-02	7.80E-02	7.52E-02
0.05	0.072796	0.061772	6.86E-02	6.53E-02	6.96E-02	5.86E-02	7.15E-02
0.048	0.068766	0.044196	6.46E-02	6.01E-02	6.56E-02	4.10E-02	6.77E-02
0.016	0.064736	0.028467	6.05E-02	5.39E-02	6.16E-02	2.53E-02	6.39E-02
0.425	0.305176	0.259637	3.01E-01	2.68E-01	3.09E-01	2.63E-01	3.09E-01
0.424	0.301607	0.263023	2.97E-01	2.66E-01	3.05E-01	2.66E-01	3.05E-01
0.423	0.298039	0.268254	2.94E-01	2.63E-01	3.01E-01	2.72E-01	3.01E-01
0.425	0.29447	0.275333	2.90E-01	2.59E-01	2.98E-01	2.79E-01	2.98E-01
0.427	0.290902	0.284258	2.87E-01	2.54E-01	2.94E-01	2.88E-01	2.94E-01
0.401	0.287334	0.295029	2.83E-01	2.48E-01	2.91E-01	2.98E-01	2.90E-01
0.31	0.276955	0.253593	2.73E-01	2.65E-01	2.80E-01	2.57E-01	2.80E-01
0.31	0.273329	0.253665	2.69E-01	2.63E-01	2.77E-01	2.57E-01	2.77E-01
0.309	0.269703	0.255585	2.66E-01	2.60E-01	2.73E-01	2.59E-01	2.73E-01
0.305	0.266077	0.25935	2.62E-01	2.56E-01	2.69E-01	2.63E-01	2.69E-01
0.308	0.262451	0.264963	2.58E-01	2.51E-01	2.66E-01	2.68E-01	2.65E-01
0.261	0.258825	0.272421	2.55E-01	2.45E-01	2.62E-01	2.76E-01	2.62E-01
0.202	0.248735	0.244291	2.45E-01	2.56E-01	2.52E-01	2.48E-01	2.52E-01
0.201	0.245051	0.241052	2.41E-01	2.54E-01	2.48E-01	2.44E-01	2.48E-01
0.203	0.241367	0.239658	2.37E-01	2.51E-01	2.45E-01	2.43E-01	2.45E-01
0.2	0.237684	0.240112	2.33E-01	2.47E-01	2.41E-01	2.43E-01	2.41E-01
0.2	0.234	0.242411	2.30E-01	2.42E-01	2.37E-01	2.46E-01	2.37E-01
0.163	0.230316	0.246558	2.26E-01	2.35E-01	2.34E-01	2.50E-01	2.33E-01
0.151	0.192294	0.215921	1.88E-01	2.18E-01	1.96E-01	2.19E-01	1.95E-01
0.15	0.188495	0.206056	1.84E-01	2.16E-01	1.92E-01	2.09E-01	1.92E-01
0.15	0.184696	0.198037	1.81E-01	2.13E-01	1.88E-01	2.01E-01	1.88E-01
0.149	0.180897	0.191865	1.77E-01	2.09E-01	1.84E-01	1.95E-01	1.84E-01
0.148	0.177098	0.18754	1.73E-01	2.04E-01	1.80E-01	1.91E-01	1.80E-01
0.114	0.173299	0.185061	1.69E-01	1.98E-01	1.77E-01	1.88E-01	1.77E-01
0.101	0.135854	0.174525	1.32E-01	1.56E-01	1.39E-01	1.78E-01	1.39E-01
0.1	0.131939	0.158035	1.28E-01	1.54E-01	1.35E-01	1.61E-01	1.35E-01
0.1	0.128025	0.143392	1.24E-01	1.51E-01	1.31E-01	1.47E-01	1.31E-01
0.102	0.12411	0.130594	1.20E-01	1.47E-01	1.27E-01	1.34E-01	1.27E-01
0.099	0.120196	0.119644	1.16E-01	1.42E-01	1.24E-01	1.23E-01	1.24E-01
0.065	0.116281	0.11054	1.12E-01	1.36E-01	1.20E-01	1.14E-01	1.20E-01
0.051	0.079413	0.120105	7.52E-02	6.89E-02	8.28E-02	1.23E-01	8.19E-02
0.052	0.075383	0.09699	7.12E-02	6.70E-02	7.87E-02	1.00E-01	7.82E-02

0.051	0.071353	0.075721	6.72E-02	6.39E-02	7.47E-02	7.91E-02	7.44E-02
0.05	0.067323	0.056299	6.31E-02	5.98E-02	7.07E-02	5.96E-02	7.06E-02
0.05	0.063293	0.038723	5.91E-02	5.47E-02	6.66E-02	4.21E-02	6.69E-02
0.023	0.059264	0.022994	5.51E-02	4.84E-02	6.26E-02	2.63E-02	6.31E-02
0.175	0.257136	0.211597	2.55E-01	2.20E-01	2.66E-01	2.21E-01	2.57E-01
0.178	0.253567	0.214983	2.51E-01	2.18E-01	2.63E-01	2.24E-01	2.53E-01
0.176	0.249999	0.220215	2.48E-01	2.15E-01	2.59E-01	2.30E-01	2.49E-01
0.175	0.24643	0.227293	2.44E-01	2.11E-01	2.56E-01	2.37E-01	2.45E-01
0.178	0.242862	0.236218	2.40E-01	2.06E-01	2.52E-01	2.46E-01	2.42E-01
0.173	0.239294	0.246989	2.37E-01	2.00E-01	2.49E-01	2.56E-01	2.38E-01
0.163	0.228915	0.205553	2.26E-01	2.17E-01	2.38E-01	2.15E-01	2.28E-01
0.162	0.225289	0.205625	2.23E-01	2.15E-01	2.35E-01	2.15E-01	2.25E-01
0.163	0.221663	0.207545	2.19E-01	2.12E-01	2.31E-01	2.17E-01	2.21E-01
0.161	0.218037	0.21131	2.16E-01	2.08E-01	2.27E-01	2.21E-01	2.17E-01
0.16	0.214411	0.216923	2.12E-01	2.03E-01	2.24E-01	2.26E-01	2.13E-01
0.155	0.210785	0.224381	2.08E-01	1.97E-01	2.20E-01	2.34E-01	2.10E-01
0.149	0.200695	0.196252	1.98E-01	2.08E-01	2.10E-01	2.06E-01	2.00E-01
0.148	0.197011	0.193012	1.95E-01	2.06E-01	2.06E-01	2.02E-01	1.96E-01
0.146	0.193327	0.191618	1.91E-01	2.03E-01	2.03E-01	2.01E-01	1.93E-01
0.147	0.189644	0.192072	1.87E-01	1.99E-01	1.99E-01	2.01E-01	1.89E-01
0.145	0.18596	0.194371	1.84E-01	1.93E-01	1.95E-01	2.04E-01	1.85E-01
0.139	0.182276	0.198518	1.80E-01	1.87E-01	1.92E-01	2.08E-01	1.81E-01
0.118	0.144254	0.167881	1.42E-01	1.70E-01	1.54E-01	1.77E-01	1.43E-01
0.117	0.140455	0.158016	1.38E-01	1.68E-01	1.50E-01	1.67E-01	1.40E-01
0.116	0.136656	0.149997	1.34E-01	1.65E-01	1.46E-01	1.59E-01	1.36E-01
0.115	0.132857	0.143825	1.30E-01	1.61E-01	1.42E-01	1.53E-01	1.32E-01
0.117	0.129058	0.1395	1.27E-01	1.56E-01	1.38E-01	1.49E-01	1.28E-01
0.103	0.125259	0.137021	1.23E-01	1.50E-01	1.35E-01	1.46E-01	1.24E-01
0.088	0.087814	0.126485	8.54E-02	1.08E-01	9.71E-02	1.36E-01	8.66E-02
0.089	0.083899	0.109995	8.14E-02	1.06E-01	9.32E-02	1.19E-01	8.28E-02
0.088	0.079985	0.095352	7.75E-02	1.03E-01	8.93E-02	1.05E-01	7.91E-02
0.086	0.07607	0.082555	7.36E-02	9.90E-02	8.54E-02	9.19E-02	7.53E-02
0.085	0.072156	0.071604	6.97E-02	9.38E-02	8.15E-02	8.09E-02	7.15E-02
0.068	0.068241	0.0625	6.58E-02	8.76E-02	7.76E-02	7.18E-02	6.77E-02
0.068	0.031373	0.072065	2.89E-02	2.09E-02	4.07E-02	8.14E-02	2.99E-02
0.061	0.027343	0.04895	2.49E-02	1.89E-02	3.67E-02	5.83E-02	2.61E-02
0.065	0.023313	0.027681	2.09E-02	1.59E-02	3.26E-02	3.70E-02	2.23E-02
0.063	0.019283	0.008259	1.68E-02	1.18E-02	2.86E-02	1.76E-02	1.86E-02
0.061	0.015253	-0.00932	1.28E-02	6.61E-03	2.46E-02	1.33E-05	1.48E-02
0.049	0.011224	-0.02505	8.77E-03	3.57E-04	2.06E-02	-1.57E-02	1.10E-02
0.259	0.283226	0.237687	2.81E-01	2.46E-01	2.81E-01	2.36E-01	2.84E-01
0.258	0.279657	0.241073	2.77E-01	2.44E-01	2.77E-01	2.39E-01	2.80E-01
0.258	0.276089	0.246304	2.74E-01	2.41E-01	2.74E-01	2.44E-01	2.76E-01
0.257	0.27252	0.253383	2.70E-01	2.37E-01	2.70E-01	2.51E-01	2.73E-01
0.256	0.268952	0.262308	2.66E-01	2.32E-01	2.67E-01	2.60E-01	2.69E-01
0.249	0.265384	0.273079	2.63E-01	2.26E-01	2.63E-01	2.71E-01	2.65E-01
0.238	0.255005	0.231643	2.53E-01	2.43E-01	2.53E-01	2.29E-01	2.56E-01
0.237	0.251379	0.231715	2.49E-01	2.41E-01	2.49E-01	2.30E-01	2.52E-01

0.237	0.247753	0.233634	2.45E-01	2.38E-01	2.46E-01	2.31E-01	2.48E-01
0.236	0.244127	0.2374	2.42E-01	2.34E-01	2.42E-01	2.35E-01	2.44E-01
0.235	0.240501	0.243013	2.38E-01	2.29E-01	2.38E-01	2.41E-01	2.40E-01
0.221	0.236875	0.250471	2.34E-01	2.23E-01	2.35E-01	2.48E-01	2.37E-01
0.212	0.226785	0.222341	2.24E-01	2.34E-01	2.25E-01	2.20E-01	2.27E-01
0.211	0.223101	0.219102	2.21E-01	2.32E-01	2.21E-01	2.17E-01	2.23E-01
0.21	0.219417	0.217708	2.17E-01	2.29E-01	2.17E-01	2.16E-01	2.20E-01
0.209	0.215734	0.218162	2.13E-01	2.25E-01	2.14E-01	2.16E-01	2.16E-01
0.208	0.21205	0.220461	2.10E-01	2.20E-01	2.10E-01	2.18E-01	2.12E-01
0.195	0.208366	0.224607	2.06E-01	2.13E-01	2.06E-01	2.22E-01	2.08E-01
0.178	0.170344	0.193971	1.68E-01	1.96E-01	1.68E-01	1.92E-01	1.70E-01
0.176	0.166545	0.184106	1.64E-01	1.95E-01	1.64E-01	1.82E-01	1.67E-01
0.175	0.162746	0.176087	1.60E-01	1.91E-01	1.61E-01	1.74E-01	1.63E-01
0.175	0.158947	0.169915	1.56E-01	1.87E-01	1.57E-01	1.68E-01	1.59E-01
0.175	0.155148	0.16559	1.53E-01	1.82E-01	1.53E-01	1.63E-01	1.55E-01
0.161	0.151349	0.163111	1.49E-01	1.76E-01	1.49E-01	1.61E-01	1.52E-01
0.143	0.113904	0.152575	1.11E-01	1.34E-01	1.12E-01	1.50E-01	1.14E-01
0.144	0.109989	0.136085	1.08E-01	1.32E-01	1.08E-01	1.34E-01	1.10E-01
0.141	0.106075	0.121441	1.04E-01	1.29E-01	1.04E-01	1.19E-01	1.06E-01
0.14	0.10216	0.108644	9.97E-02	1.25E-01	1.00E-01	1.06E-01	1.02E-01
0.138	0.098246	0.097694	9.58E-02	1.20E-01	9.61E-02	9.55E-02	9.86E-02
0.126	0.094331	0.08859	9.19E-02	1.14E-01	9.22E-02	8.64E-02	9.48E-02
0.112	0.057463	0.098155	5.50E-02	4.70E-02	5.53E-02	9.60E-02	5.70E-02
0.11	0.053433	0.075039	5.10E-02	4.50E-02	5.13E-02	7.29E-02	5.32E-02
0.109	0.049403	0.053771	4.69E-02	4.20E-02	4.72E-02	5.16E-02	4.94E-02
0.108	0.045373	0.034349	4.29E-02	3.79E-02	4.32E-02	3.22E-02	4.57E-02
0.105	0.041343	0.016773	3.89E-02	3.27E-02	3.92E-02	1.46E-02	4.19E-02
0.089	0.037314	0.001044	3.49E-02	2.64E-02	3.51E-02	-1.12E-03	3.81E-02
0.34	0.335406	0.289867	3.33E-01	2.99E-01	3.39E-01	2.94E-01	3.38E-01
0.34	0.331837	0.293253	3.29E-01	2.97E-01	3.36E-01	2.97E-01	3.34E-01
0.339	0.328269	0.298484	3.26E-01	2.94E-01	3.32E-01	3.03E-01	3.31E-01
0.338	0.3247	0.305563	3.22E-01	2.89E-01	3.29E-01	3.10E-01	3.27E-01
0.338	0.321132	0.314487	3.19E-01	2.84E-01	3.25E-01	3.19E-01	3.23E-01
0.306	0.317563	0.325259	3.15E-01	2.78E-01	3.22E-01	3.29E-01	3.19E-01
0.312	0.307185	0.283822	3.05E-01	2.95E-01	3.11E-01	2.88E-01	3.10E-01
0.315	0.303559	0.283895	3.01E-01	2.93E-01	3.08E-01	2.88E-01	3.06E-01
0.316	0.299933	0.285814	2.97E-01	2.90E-01	3.04E-01	2.90E-01	3.02E-01
0.317	0.296307	0.28958	2.94E-01	2.86E-01	3.00E-01	2.94E-01	2.98E-01
0.316	0.292681	0.295192	2.90E-01	2.81E-01	2.97E-01	2.99E-01	2.95E-01
0.278	0.289055	0.302651	2.87E-01	2.75E-01	2.93E-01	3.07E-01	2.91E-01
0.271	0.278965	0.274521	2.77E-01	2.86E-01	2.83E-01	2.79E-01	2.81E-01
0.271	0.275281	0.271281	2.73E-01	2.84E-01	2.79E-01	2.75E-01	2.78E-01
0.27	0.271597	0.269888	2.69E-01	2.81E-01	2.76E-01	2.74E-01	2.74E-01
0.269	0.267913	0.270341	2.65E-01	2.77E-01	2.72E-01	2.74E-01	2.70E-01
0.265	0.26423	0.272641	2.62E-01	2.72E-01	2.68E-01	2.77E-01	2.66E-01
0.221	0.260546	0.276787	2.58E-01	2.65E-01	2.65E-01	2.81E-01	2.63E-01
0.188	0.222524	0.246151	2.20E-01	2.49E-01	2.27E-01	2.50E-01	2.25E-01
0.186	0.218725	0.236286	2.16E-01	2.47E-01	2.23E-01	2.40E-01	2.21E-01

0.185	0.214926	0.228267	2.12E-01	2.44E-01	2.19E-01	2.32E-01	2.17E-01
0.185	0.211127	0.222095	2.09E-01	2.40E-01	2.15E-01	2.26E-01	2.13E-01
0.184	0.207328	0.21777	2.05E-01	2.34E-01	2.11E-01	2.22E-01	2.10E-01
0.159	0.203528	0.215291	2.01E-01	2.28E-01	2.08E-01	2.19E-01	2.06E-01
0.141	0.166083	0.204755	1.64E-01	1.86E-01	1.70E-01	2.09E-01	1.68E-01
0.141	0.162169	0.188265	1.60E-01	1.84E-01	1.66E-01	1.92E-01	1.64E-01
0.14	0.158254	0.173621	1.56E-01	1.81E-01	1.62E-01	1.78E-01	1.60E-01
0.14	0.15434	0.160824	1.52E-01	1.77E-01	1.58E-01	1.65E-01	1.57E-01
0.139	0.150425	0.149874	1.48E-01	1.72E-01	1.54E-01	1.54E-01	1.53E-01
0.118	0.146511	0.14077	1.44E-01	1.66E-01	1.51E-01	1.45E-01	1.49E-01
0.095	0.109643	0.150335	1.07E-01	9.92E-02	1.14E-01	1.54E-01	1.11E-01
0.094	0.105613	0.127219	1.03E-01	9.72E-02	1.10E-01	1.31E-01	1.07E-01
0.093	0.101583	0.105951	9.91E-02	9.42E-02	1.06E-01	1.10E-01	1.04E-01
0.093	0.097553	0.086529	9.51E-02	9.01E-02	1.02E-01	9.06E-02	9.99E-02
0.093	0.093523	0.068953	9.11E-02	8.49E-02	9.76E-02	7.30E-02	9.61E-02
0.078	0.089493	0.053224	8.70E-02	7.86E-02	9.35E-02	5.73E-02	9.23E-02
0.251	0.273019	0.22748	2.71E-01	2.36E-01	2.75E-01	2.30E-01	2.73E-01
0.249	0.26945	0.230866	2.67E-01	2.34E-01	2.72E-01	2.33E-01	2.70E-01
0.25	0.265882	0.236097	2.63E-01	2.31E-01	2.68E-01	2.38E-01	2.66E-01
0.249	0.262313	0.243176	2.60E-01	2.27E-01	2.64E-01	2.45E-01	2.62E-01
0.248	0.258745	0.252101	2.56E-01	2.22E-01	2.61E-01	2.54E-01	2.58E-01
0.239	0.255177	0.262872	2.53E-01	2.16E-01	2.57E-01	2.65E-01	2.55E-01
0.231	0.244798	0.221436	2.42E-01	2.33E-01	2.47E-01	2.24E-01	2.45E-01
0.232	0.241172	0.221508	2.39E-01	2.31E-01	2.43E-01	2.24E-01	2.41E-01
0.231	0.237546	0.223428	2.35E-01	2.28E-01	2.40E-01	2.26E-01	2.37E-01
0.23	0.23392	0.227193	2.31E-01	2.24E-01	2.36E-01	2.29E-01	2.34E-01
0.229	0.230294	0.232806	2.28E-01	2.19E-01	2.32E-01	2.35E-01	2.30E-01
0.211	0.226668	0.240264	2.24E-01	2.12E-01	2.29E-01	2.42E-01	2.26E-01
0.208	0.216578	0.212135	2.14E-01	2.24E-01	2.19E-01	2.14E-01	2.17E-01
0.208	0.212894	0.208895	2.10E-01	2.22E-01	2.15E-01	2.11E-01	2.13E-01
0.209	0.20921	0.207501	2.07E-01	2.19E-01	2.11E-01	2.10E-01	2.09E-01
0.205	0.205527	0.207955	2.03E-01	2.15E-01	2.08E-01	2.10E-01	2.05E-01
0.204	0.201843	0.210254	1.99E-01	2.09E-01	2.04E-01	2.12E-01	2.02E-01
0.188	0.198159	0.214401	1.96E-01	2.03E-01	2.00E-01	2.17E-01	1.98E-01
0.168	0.160137	0.183764	1.58E-01	1.86E-01	1.62E-01	1.86E-01	1.60E-01
0.167	0.156338	0.173899	1.54E-01	1.84E-01	1.58E-01	1.76E-01	1.56E-01
0.167	0.152539	0.16588	1.50E-01	1.81E-01	1.55E-01	1.68E-01	1.52E-01
0.166	0.14874	0.159708	1.46E-01	1.77E-01	1.51E-01	1.62E-01	1.49E-01
0.165	0.144941	0.155383	1.42E-01	1.72E-01	1.47E-01	1.58E-01	1.45E-01
0.155	0.141142	0.152904	1.39E-01	1.66E-01	1.43E-01	1.55E-01	1.41E-01
0.136	0.103697	0.142368	1.01E-01	1.24E-01	1.06E-01	1.45E-01	1.03E-01
0.136	0.099782	0.125878	9.73E-02	1.22E-01	1.02E-01	1.28E-01	9.94E-02
0.135	0.095868	0.111235	9.34E-02	1.19E-01	9.80E-02	1.13E-01	9.57E-02
0.135	0.091953	0.098437	8.95E-02	1.15E-01	9.41E-02	1.01E-01	9.19E-02
0.133	0.088039	0.087487	8.56E-02	1.10E-01	9.02E-02	8.96E-02	8.81E-02
0.122	0.084124	0.078383	8.17E-02	1.03E-01	8.63E-02	8.05E-02	8.44E-02
0.099	0.047256	0.087948	4.48E-02	3.68E-02	4.94E-02	9.01E-02	4.65E-02
0.098	0.043226	0.064833	4.08E-02	3.48E-02	4.54E-02	6.70E-02	4.27E-02

0.098	0.039196	0.043564	3.67E-02	3.18E-02	4.13E-02	4.57E-02	3.89E-02
0.097	0.035166	0.024142	3.27E-02	2.77E-02	3.73E-02	2.63E-02	3.52E-02
0.095	0.031136	0.006566	2.87E-02	2.25E-02	3.33E-02	8.70E-03	3.14E-02
0.076	0.027107	-0.00916	2.47E-02	1.62E-02	2.92E-02	-7.03E-03	2.76E-02
0.336	0.299109	0.25357	2.97E-01	2.62E-01	2.90E-01	2.44E-01	2.99E-01
0.337	0.29554	0.256956	2.93E-01	2.60E-01	2.86E-01	2.48E-01	2.95E-01
0.335	0.291972	0.262187	2.90E-01	2.57E-01	2.83E-01	2.53E-01	2.91E-01
0.339	0.288403	0.269266	2.86E-01	2.53E-01	2.79E-01	2.60E-01	2.88E-01
0.335	0.284835	0.278191	2.82E-01	2.48E-01	2.75E-01	2.69E-01	2.84E-01
0.322	0.281267	0.288962	2.79E-01	2.42E-01	2.72E-01	2.80E-01	2.80E-01
0.301	0.270888	0.247525	2.68E-01	2.59E-01	2.62E-01	2.38E-01	2.71E-01
0.302	0.267262	0.247598	2.65E-01	2.57E-01	2.58E-01	2.38E-01	2.67E-01
0.301	0.263636	0.249517	2.61E-01	2.54E-01	2.54E-01	2.40E-01	2.63E-01
0.3	0.26001	0.253283	2.58E-01	2.50E-01	2.51E-01	2.44E-01	2.59E-01
0.3	0.256384	0.258896	2.54E-01	2.45E-01	2.47E-01	2.50E-01	2.56E-01
0.284	0.252758	0.266354	2.50E-01	2.39E-01	2.43E-01	2.57E-01	2.52E-01
0.275	0.242668	0.238224	2.40E-01	2.50E-01	2.33E-01	2.29E-01	2.42E-01
0.274	0.238984	0.234985	2.37E-01	2.48E-01	2.30E-01	2.26E-01	2.39E-01
0.274	0.2353	0.233591	2.33E-01	2.45E-01	2.26E-01	2.24E-01	2.35E-01
0.275	0.231617	0.234044	2.29E-01	2.41E-01	2.22E-01	2.25E-01	2.31E-01
0.276	0.227933	0.236344	2.25E-01	2.35E-01	2.19E-01	2.27E-01	2.27E-01
0.251	0.224249	0.24049	2.22E-01	2.29E-01	2.15E-01	2.31E-01	2.23E-01
0.223	0.186227	0.209854	1.84E-01	2.12E-01	1.77E-01	2.00E-01	1.86E-01
0.221	0.182428	0.199989	1.80E-01	2.10E-01	1.73E-01	1.91E-01	1.82E-01
0.219	0.178629	0.19197	1.76E-01	2.07E-01	1.69E-01	1.83E-01	1.78E-01
0.218	0.17483	0.185798	1.72E-01	2.03E-01	1.65E-01	1.76E-01	1.74E-01
0.218	0.171031	0.181473	1.69E-01	1.98E-01	1.62E-01	1.72E-01	1.70E-01
0.198	0.167232	0.178994	1.65E-01	1.92E-01	1.58E-01	1.70E-01	1.67E-01
0.148	0.129787	0.168458	1.27E-01	1.50E-01	1.20E-01	1.59E-01	1.29E-01
0.147	0.125872	0.151968	1.23E-01	1.48E-01	1.17E-01	1.43E-01	1.25E-01
0.146	0.121958	0.137324	1.20E-01	1.45E-01	1.13E-01	1.28E-01	1.21E-01
0.144	0.118043	0.124527	1.16E-01	1.41E-01	1.09E-01	1.15E-01	1.18E-01
0.145	0.114129	0.113577	1.12E-01	1.36E-01	1.05E-01	1.04E-01	1.14E-01
0.132	0.110214	0.104473	1.08E-01	1.30E-01	1.01E-01	9.51E-02	1.10E-01
0.109	0.073346	0.114038	7.09E-02	6.29E-02	6.40E-02	1.05E-01	7.21E-02
0.108	0.069316	0.090922	6.69E-02	6.09E-02	6.00E-02	8.16E-02	6.84E-02
0.108	0.065286	0.069654	6.28E-02	5.79E-02	5.59E-02	6.03E-02	6.46E-02
0.105	0.061256	0.050232	5.88E-02	5.38E-02	5.19E-02	4.09E-02	6.08E-02
0.105	0.057226	0.032656	5.48E-02	4.86E-02	4.79E-02	2.33E-02	5.70E-02
0.086	0.053196	0.016927	5.07E-02	4.23E-02	4.38E-02	7.57E-03	5.33E-02
0.441	0.351288	0.30575	3.49E-01	3.14E-01	3.48E-01	3.03E-01	3.50E-01
0.439	0.34772	0.309135	3.45E-01	3.12E-01	3.45E-01	3.06E-01	3.47E-01
0.438	0.344152	0.314367	3.42E-01	3.09E-01	3.41E-01	3.11E-01	3.43E-01
0.436	0.340583	0.321446	3.38E-01	3.05E-01	3.37E-01	3.18E-01	3.39E-01
0.431	0.337015	0.33037	3.35E-01	3.00E-01	3.34E-01	3.27E-01	3.35E-01
0.396	0.333446	0.341142	3.31E-01	2.94E-01	3.30E-01	3.38E-01	3.31E-01
0.389	0.323068	0.299705	3.21E-01	3.11E-01	3.20E-01	2.97E-01	3.22E-01
0.385	0.319442	0.299778	3.17E-01	3.09E-01	3.16E-01	2.97E-01	3.18E-01

0.383	0.315816	0.301697	3.13E-01	3.06E-01	3.13E-01	2.99E-01	3.14E-01
0.382	0.31219	0.305463	3.10E-01	3.02E-01	3.09E-01	3.02E-01	3.11E-01
0.372	0.308564	0.311075	3.06E-01	2.97E-01	3.05E-01	3.08E-01	3.07E-01
0.341	0.304938	0.318534	3.02E-01	2.91E-01	3.02E-01	3.15E-01	3.03E-01
0.33	0.294848	0.290404	2.92E-01	3.02E-01	2.92E-01	2.87E-01	2.94E-01
0.33	0.291164	0.287164	2.89E-01	3.00E-01	2.88E-01	2.84E-01	2.90E-01
0.329	0.28748	0.285771	2.85E-01	2.97E-01	2.84E-01	2.83E-01	2.86E-01
0.328	0.283796	0.286224	2.81E-01	2.93E-01	2.81E-01	2.83E-01	2.82E-01
0.321	0.280113	0.288524	2.78E-01	2.88E-01	2.77E-01	2.85E-01	2.79E-01
0.287	0.276429	0.29267	2.74E-01	2.81E-01	2.73E-01	2.90E-01	2.75E-01
0.211	0.238407	0.262034	2.36E-01	2.65E-01	2.35E-01	2.59E-01	2.37E-01
0.212	0.234608	0.252169	2.32E-01	2.63E-01	2.31E-01	2.49E-01	2.33E-01
0.213	0.230809	0.24415	2.28E-01	2.60E-01	2.28E-01	2.41E-01	2.29E-01
0.214	0.22701	0.237978	2.25E-01	2.55E-01	2.24E-01	2.35E-01	2.26E-01
0.215	0.223211	0.233653	2.21E-01	2.50E-01	2.20E-01	2.30E-01	2.22E-01
0.19	0.219411	0.231174	2.17E-01	2.44E-01	2.16E-01	2.28E-01	2.18E-01
0.148	0.181966	0.220638	1.80E-01	2.02E-01	1.79E-01	2.17E-01	1.80E-01
0.149	0.178052	0.204148	1.76E-01	2.00E-01	1.75E-01	2.01E-01	1.76E-01
0.149	0.174137	0.189504	1.72E-01	1.97E-01	1.71E-01	1.86E-01	1.73E-01
0.15	0.170223	0.176707	1.68E-01	1.93E-01	1.67E-01	1.74E-01	1.69E-01
0.15	0.166308	0.165757	1.64E-01	1.88E-01	1.63E-01	1.63E-01	1.65E-01
0.141	0.162394	0.156653	1.60E-01	1.82E-01	1.59E-01	1.53E-01	1.61E-01
0.112	0.125526	0.166217	1.23E-01	1.15E-01	1.22E-01	1.63E-01	1.23E-01
0.111	0.121496	0.143102	1.19E-01	1.13E-01	1.18E-01	1.40E-01	1.20E-01
0.11	0.117466	0.121834	1.15E-01	1.10E-01	1.14E-01	1.19E-01	1.16E-01
0.11	0.113436	0.102411	1.11E-01	1.06E-01	1.10E-01	9.92E-02	1.12E-01
0.109	0.109406	0.084836	1.07E-01	1.01E-01	1.06E-01	8.17E-02	1.08E-01
0.097	0.105376	0.069107	1.03E-01	9.45E-02	1.02E-01	6.59E-02	1.05E-01
0.179	0.232177	0.186638	2.39E-01	1.95E-01	2.42E-01	1.96E-01	2.32E-01
0.18	0.228608	0.190024	2.35E-01	1.93E-01	2.38E-01	1.99E-01	2.28E-01
0.179	0.22504	0.195255	2.32E-01	1.90E-01	2.34E-01	2.05E-01	2.24E-01
0.178	0.221471	0.202334	2.28E-01	1.86E-01	2.31E-01	2.12E-01	2.21E-01
0.177	0.217903	0.211258	2.25E-01	1.81E-01	2.27E-01	2.21E-01	2.17E-01
0.166	0.214334	0.22203	2.21E-01	1.75E-01	2.24E-01	2.31E-01	2.13E-01
0.156	0.203956	0.180593	2.11E-01	1.92E-01	2.13E-01	1.90E-01	2.03E-01
0.157	0.20033	0.180666	2.07E-01	1.90E-01	2.10E-01	1.90E-01	2.00E-01
0.157	0.196704	0.182585	2.04E-01	1.87E-01	2.06E-01	1.92E-01	1.96E-01
0.155	0.193078	0.186351	2.00E-01	1.83E-01	2.02E-01	1.96E-01	1.92E-01
0.156	0.189452	0.191963	1.96E-01	1.78E-01	1.99E-01	2.01E-01	1.88E-01
0.149	0.185826	0.199422	1.93E-01	1.72E-01	1.95E-01	2.09E-01	1.85E-01
0.135	0.175736	0.171292	1.83E-01	1.83E-01	1.85E-01	1.81E-01	1.75E-01
0.136	0.172052	0.168052	1.79E-01	1.81E-01	1.81E-01	1.77E-01	1.71E-01
0.137	0.168368	0.166659	1.75E-01	1.78E-01	1.78E-01	1.76E-01	1.68E-01
0.137	0.164684	0.167112	1.72E-01	1.74E-01	1.74E-01	1.76E-01	1.64E-01
0.137	0.161001	0.169412	1.68E-01	1.69E-01	1.70E-01	1.79E-01	1.60E-01
0.125	0.157317	0.173558	1.64E-01	1.62E-01	1.67E-01	1.83E-01	1.56E-01
0.108	0.119295	0.142922	1.26E-01	1.45E-01	1.29E-01	1.52E-01	1.18E-01
0.107	0.115496	0.133057	1.22E-01	1.43E-01	1.25E-01	1.42E-01	1.15E-01

0.105	0.111697	0.125038	1.19E-01	1.40E-01	1.21E-01	1.34E-01	1.11E-01
0.104	0.107898	0.118866	1.15E-01	1.36E-01	1.17E-01	1.28E-01	1.07E-01
0.103	0.104099	0.114541	1.11E-01	1.31E-01	1.13E-01	1.24E-01	1.03E-01
0.083	0.100299	0.112062	1.07E-01	1.25E-01	1.10E-01	1.21E-01	9.95E-02
0.08	0.062854	0.101526	6.97E-02	8.32E-02	7.22E-02	1.11E-01	6.16E-02
0.079	0.05894	0.085036	6.58E-02	8.12E-02	6.83E-02	9.44E-02	5.79E-02
0.08	0.055025	0.070392	6.19E-02	7.81E-02	6.44E-02	7.97E-02	5.41E-02
0.076	0.051111	0.057595	5.80E-02	7.40E-02	6.04E-02	6.69E-02	5.03E-02
0.075	0.047196	0.046645	5.41E-02	6.89E-02	5.65E-02	5.60E-02	4.66E-02
0.061	0.043282	0.037541	5.02E-02	6.26E-02	5.26E-02	4.69E-02	4.28E-02
0.055	0.006414	0.047106	1.33E-02	-4.05E-03	1.58E-02	5.64E-02	4.91E-03
0.054	0.002384	0.02399	9.26E-03	-6.02E-03	1.17E-02	3.33E-02	1.14E-03
0.053	-0.00165	0.002722	5.23E-03	-9.06E-03	7.69E-03	1.21E-02	-2.63E-03
0.05	-0.00568	-0.0167	1.20E-03	-1.32E-02	3.66E-03	-7.36E-03	-6.40E-03
0.045	-0.00971	-0.03428	-2.83E-03	-1.83E-02	-3.68E-04	-2.49E-02	-1.02E-02
0.031	-0.01374	-0.05001	-6.86E-03	-2.46E-02	-4.40E-03	-4.07E-02	-1.39E-02
0.251	0.258266	0.212728	2.65E-01	2.21E-01	2.56E-01	2.11E-01	2.59E-01
0.25	0.254698	0.216113	2.62E-01	2.19E-01	2.53E-01	2.14E-01	2.55E-01
0.251	0.25113	0.221345	2.58E-01	2.16E-01	2.49E-01	2.19E-01	2.51E-01
0.249	0.247561	0.228424	2.54E-01	2.12E-01	2.45E-01	2.26E-01	2.48E-01
0.248	0.243993	0.237348	2.51E-01	2.07E-01	2.42E-01	2.35E-01	2.44E-01
0.231	0.240424	0.24812	2.47E-01	2.01E-01	2.38E-01	2.46E-01	2.40E-01
0.219	0.230046	0.206683	2.37E-01	2.18E-01	2.28E-01	2.05E-01	2.31E-01
0.218	0.22642	0.206756	2.33E-01	2.16E-01	2.24E-01	2.05E-01	2.27E-01
0.217	0.222794	0.208675	2.30E-01	2.13E-01	2.21E-01	2.07E-01	2.23E-01
0.215	0.219168	0.212441	2.26E-01	2.09E-01	2.17E-01	2.10E-01	2.19E-01
0.215	0.215542	0.218053	2.22E-01	2.04E-01	2.13E-01	2.16E-01	2.15E-01
0.196	0.211916	0.225512	2.19E-01	1.98E-01	2.10E-01	2.23E-01	2.12E-01
0.184	0.201826	0.197382	2.09E-01	2.09E-01	2.00E-01	1.95E-01	2.02E-01
0.183	0.198142	0.194142	2.05E-01	2.07E-01	1.96E-01	1.92E-01	1.98E-01
0.18	0.194458	0.192749	2.01E-01	2.04E-01	1.92E-01	1.91E-01	1.95E-01
0.18	0.190774	0.193202	1.98E-01	2.00E-01	1.89E-01	1.91E-01	1.91E-01
0.178	0.187091	0.195502	1.94E-01	1.95E-01	1.85E-01	1.93E-01	1.87E-01
0.163	0.183407	0.199648	1.90E-01	1.88E-01	1.81E-01	1.97E-01	1.83E-01
0.15	0.145385	0.169011	1.52E-01	1.72E-01	1.43E-01	1.67E-01	1.45E-01
0.152	0.141586	0.159147	1.48E-01	1.70E-01	1.39E-01	1.57E-01	1.42E-01
0.152	0.137787	0.151128	1.45E-01	1.67E-01	1.36E-01	1.49E-01	1.38E-01
0.152	0.133988	0.144956	1.41E-01	1.62E-01	1.32E-01	1.43E-01	1.34E-01
0.151	0.130188	0.140631	1.37E-01	1.57E-01	1.28E-01	1.38E-01	1.30E-01
0.141	0.126389	0.138152	1.33E-01	1.51E-01	1.24E-01	1.36E-01	1.27E-01
0.132	0.088944	0.127616	9.58E-02	1.09E-01	8.68E-02	1.25E-01	8.87E-02
0.134	0.08503	0.111126	9.19E-02	1.07E-01	8.29E-02	1.09E-01	8.50E-02
0.133	0.081115	0.096482	8.80E-02	1.04E-01	7.90E-02	9.43E-02	8.12E-02
0.132	0.077201	0.083685	8.41E-02	1.00E-01	7.50E-02	8.15E-02	7.74E-02
0.131	0.073286	0.072735	8.02E-02	9.49E-02	7.11E-02	7.06E-02	7.37E-02
0.109	0.069372	0.063631	7.63E-02	8.87E-02	6.72E-02	6.15E-02	6.99E-02
0.098	0.032504	0.073195	3.94E-02	2.20E-02	3.03E-02	7.10E-02	3.20E-02
0.099	0.028474	0.05008	3.54E-02	2.01E-02	2.63E-02	4.79E-02	2.82E-02

0.095	0.024444	0.028812	3.13E-02	1.70E-02	2.23E-02	2.67E-02	2.45E-02
0.095	0.020414	0.009389	2.73E-02	1.29E-02	1.83E-02	7.23E-03	2.07E-02
0.095	0.016384	-0.00819	2.33E-02	7.74E-03	1.42E-02	-1.03E-02	1.69E-02
0.068	0.012354	-0.02392	1.92E-02	1.49E-03	1.02E-02	-2.61E-02	1.32E-02
0.332	0.310446	0.264908	3.17E-01	2.74E-01	3.14E-01	2.69E-01	3.13E-01
0.335	0.306878	0.268293	3.14E-01	2.72E-01	3.11E-01	2.72E-01	3.09E-01
0.336	0.303309	0.273525	3.10E-01	2.69E-01	3.07E-01	2.78E-01	3.06E-01
0.331	0.299741	0.280603	3.07E-01	2.64E-01	3.04E-01	2.85E-01	3.02E-01
0.33	0.296173	0.289528	3.03E-01	2.59E-01	3.00E-01	2.94E-01	2.98E-01
0.314	0.292604	0.3003	2.99E-01	2.53E-01	2.97E-01	3.04E-01	2.94E-01
0.306	0.282226	0.258863	2.89E-01	2.70E-01	2.86E-01	2.63E-01	2.85E-01
0.305	0.2786	0.258936	2.85E-01	2.68E-01	2.83E-01	2.63E-01	2.81E-01
0.304	0.274974	0.260855	2.82E-01	2.65E-01	2.79E-01	2.65E-01	2.77E-01
0.303	0.271348	0.264621	2.78E-01	2.61E-01	2.75E-01	2.69E-01	2.73E-01
0.3	0.267722	0.270233	2.75E-01	2.56E-01	2.72E-01	2.74E-01	2.70E-01
0.269	0.264095	0.277692	2.71E-01	2.50E-01	2.68E-01	2.82E-01	2.66E-01
0.241	0.254006	0.249562	2.61E-01	2.61E-01	2.58E-01	2.54E-01	2.56E-01
0.24	0.250322	0.246322	2.57E-01	2.59E-01	2.54E-01	2.50E-01	2.53E-01
0.239	0.246638	0.244929	2.54E-01	2.56E-01	2.51E-01	2.49E-01	2.49E-01
0.238	0.242954	0.245382	2.50E-01	2.52E-01	2.47E-01	2.49E-01	2.45E-01
0.235	0.23927	0.247682	2.46E-01	2.47E-01	2.43E-01	2.52E-01	2.41E-01
0.202	0.235587	0.251828	2.42E-01	2.41E-01	2.40E-01	2.56E-01	2.38E-01
0.169	0.197565	0.221191	2.04E-01	2.24E-01	2.02E-01	2.25E-01	2.00E-01
0.168	0.193766	0.211326	2.01E-01	2.22E-01	1.98E-01	2.15E-01	1.96E-01
0.165	0.189967	0.203308	1.97E-01	2.19E-01	1.94E-01	2.07E-01	1.92E-01
0.163	0.186167	0.197136	1.93E-01	2.15E-01	1.90E-01	2.01E-01	1.88E-01
0.161	0.182368	0.192811	1.89E-01	2.09E-01	1.86E-01	1.97E-01	1.85E-01
0.151	0.178569	0.190332	1.85E-01	2.03E-01	1.83E-01	1.94E-01	1.81E-01
0.124	0.141124	0.179796	1.48E-01	1.61E-01	1.45E-01	1.84E-01	1.43E-01
0.125	0.13721	0.163306	1.44E-01	1.59E-01	1.41E-01	1.67E-01	1.39E-01
0.126	0.133295	0.148662	1.40E-01	1.56E-01	1.37E-01	1.53E-01	1.35E-01
0.124	0.129381	0.135865	1.36E-01	1.52E-01	1.33E-01	1.40E-01	1.32E-01
0.125	0.125466	0.124915	1.32E-01	1.47E-01	1.30E-01	1.29E-01	1.28E-01
0.109	0.121552	0.115811	1.28E-01	1.41E-01	1.26E-01	1.20E-01	1.24E-01
0.083	0.084684	0.125375	9.16E-02	7.42E-02	8.87E-02	1.29E-01	8.62E-02
0.084	0.080654	0.10226	8.75E-02	7.22E-02	8.47E-02	1.06E-01	8.24E-02
0.085	0.076624	0.080991	8.35E-02	6.92E-02	8.07E-02	8.50E-02	7.87E-02
0.079	0.072594	0.061569	7.95E-02	6.51E-02	7.66E-02	6.56E-02	7.49E-02
0.076	0.068564	0.043994	7.54E-02	5.99E-02	7.26E-02	4.80E-02	7.11E-02
0.065	0.064534	0.028265	7.14E-02	5.37E-02	6.86E-02	3.23E-02	6.74E-02
0.239	0.248059	0.202521	2.55E-01	2.11E-01	2.50E-01	2.05E-01	2.48E-01
0.24	0.244491	0.205906	2.51E-01	2.09E-01	2.47E-01	2.08E-01	2.45E-01
0.238	0.240923	0.211138	2.48E-01	2.06E-01	2.43E-01	2.13E-01	2.41E-01
0.237	0.237354	0.218217	2.44E-01	2.02E-01	2.39E-01	2.20E-01	2.37E-01
0.235	0.233786	0.227141	2.41E-01	1.97E-01	2.36E-01	2.29E-01	2.33E-01
0.224	0.230217	0.237913	2.37E-01	1.91E-01	2.32E-01	2.40E-01	2.30E-01
0.214	0.219839	0.196476	2.27E-01	2.08E-01	2.22E-01	1.99E-01	2.20E-01
0.211	0.216213	0.196549	2.23E-01	2.06E-01	2.18E-01	1.99E-01	2.16E-01

0.21	0.212587	0.198468	2.19E-01	2.03E-01	2.15E-01	2.01E-01	2.13E-01
0.209	0.208961	0.202234	2.16E-01	1.99E-01	2.11E-01	2.04E-01	2.09E-01
0.205	0.205335	0.207846	2.12E-01	1.94E-01	2.07E-01	2.10E-01	2.05E-01
0.186	0.201709	0.215305	2.09E-01	1.87E-01	2.04E-01	2.17E-01	2.01E-01
0.191	0.191619	0.187175	1.99E-01	1.99E-01	1.94E-01	1.89E-01	1.92E-01
0.19	0.187935	0.183935	1.95E-01	1.97E-01	1.90E-01	1.86E-01	1.88E-01
0.189	0.184251	0.182542	1.91E-01	1.94E-01	1.86E-01	1.85E-01	1.84E-01
0.185	0.180567	0.182995	1.87E-01	1.90E-01	1.83E-01	1.85E-01	1.80E-01
0.179	0.176884	0.185295	1.84E-01	1.84E-01	1.79E-01	1.87E-01	1.77E-01
0.162	0.1732	0.189441	1.80E-01	1.78E-01	1.75E-01	1.92E-01	1.73E-01
0.154	0.135178	0.158805	1.42E-01	1.61E-01	1.37E-01	1.61E-01	1.35E-01
0.153	0.131379	0.14894	1.38E-01	1.59E-01	1.34E-01	1.51E-01	1.31E-01
0.151	0.12758	0.140921	1.34E-01	1.56E-01	1.30E-01	1.43E-01	1.27E-01
0.15	0.123781	0.134749	1.31E-01	1.52E-01	1.26E-01	1.37E-01	1.24E-01
0.152	0.119982	0.130424	1.27E-01	1.47E-01	1.22E-01	1.33E-01	1.20E-01
0.139	0.116182	0.127945	1.23E-01	1.41E-01	1.18E-01	1.30E-01	1.16E-01
0.119	0.078737	0.117409	8.56E-02	9.90E-02	8.09E-02	1.20E-01	7.82E-02
0.118	0.074823	0.100919	8.17E-02	9.71E-02	7.70E-02	1.03E-01	7.45E-02
0.118	0.070908	0.086275	7.78E-02	9.40E-02	7.31E-02	8.84E-02	7.07E-02
0.115	0.066994	0.073478	7.39E-02	8.99E-02	6.91E-02	7.56E-02	6.69E-02
0.114	0.063079	0.062528	7.00E-02	8.47E-02	6.52E-02	6.47E-02	6.32E-02
0.097	0.059165	0.053424	6.61E-02	7.85E-02	6.13E-02	5.56E-02	5.94E-02
0.085	0.022297	0.062988	2.92E-02	1.18E-02	2.44E-02	6.51E-02	2.15E-02
0.084	0.018267	0.039873	2.52E-02	9.86E-03	2.04E-02	4.20E-02	1.77E-02
0.083	0.014237	0.018605	2.11E-02	6.83E-03	1.64E-02	2.07E-02	1.40E-02
0.08	0.010207	-0.00082	1.71E-02	2.72E-03	1.23E-02	1.32E-03	1.02E-02
0.08	0.006177	-0.01839	1.31E-02	-2.47E-03	8.32E-03	-1.63E-02	6.44E-03
0.06	0.002147	-0.03412	9.03E-03	-8.72E-03	4.29E-03	-3.20E-02	2.67E-03
0.329	0.274149	0.228611	2.81E-01	2.37E-01	2.65E-01	2.19E-01	2.74E-01
0.33	0.270581	0.231996	2.77E-01	2.35E-01	2.61E-01	2.23E-01	2.70E-01
0.328	0.267013	0.237228	2.74E-01	2.32E-01	2.58E-01	2.28E-01	2.67E-01
0.325	0.263444	0.244307	2.70E-01	2.28E-01	2.54E-01	2.35E-01	2.63E-01
0.323	0.259876	0.253231	2.67E-01	2.23E-01	2.51E-01	2.44E-01	2.59E-01
0.308	0.256307	0.264003	2.63E-01	2.17E-01	2.47E-01	2.55E-01	2.55E-01
0.281	0.245929	0.222566	2.53E-01	2.34E-01	2.37E-01	2.13E-01	2.46E-01
0.282	0.242303	0.222639	2.49E-01	2.32E-01	2.33E-01	2.13E-01	2.42E-01
0.282	0.238677	0.224558	2.46E-01	2.29E-01	2.29E-01	2.15E-01	2.38E-01
0.28	0.235051	0.228324	2.42E-01	2.25E-01	2.26E-01	2.19E-01	2.34E-01
0.279	0.231425	0.233936	2.38E-01	2.20E-01	2.22E-01	2.25E-01	2.31E-01
0.254	0.227799	0.241395	2.35E-01	2.14E-01	2.18E-01	2.32E-01	2.27E-01
0.233	0.217709	0.213265	2.25E-01	2.25E-01	2.08E-01	2.04E-01	2.17E-01
0.233	0.214025	0.210025	2.21E-01	2.23E-01	2.05E-01	2.01E-01	2.14E-01
0.231	0.210341	0.208632	2.17E-01	2.20E-01	2.01E-01	1.99E-01	2.10E-01
0.23	0.206657	0.209085	2.14E-01	2.16E-01	1.97E-01	2.00E-01	2.06E-01
0.229	0.202974	0.211385	2.10E-01	2.10E-01	1.94E-01	2.02E-01	2.02E-01
0.194	0.19929	0.215531	2.06E-01	2.04E-01	1.90E-01	2.06E-01	1.99E-01
0.182	0.161268	0.184894	1.68E-01	1.87E-01	1.52E-01	1.76E-01	1.61E-01
0.181	0.157469	0.17503	1.64E-01	1.85E-01	1.48E-01	1.66E-01	1.57E-01

0.18	0.15367	0.167011	1.61E-01	1.82E-01	1.44E-01	1.58E-01	1.53E-01
0.18	0.149871	0.160839	1.57E-01	1.78E-01	1.41E-01	1.51E-01	1.49E-01
0.181	0.146071	0.156514	1.53E-01	1.73E-01	1.37E-01	1.47E-01	1.46E-01
0.155	0.142272	0.154035	1.49E-01	1.67E-01	1.33E-01	1.45E-01	1.42E-01
0.132	0.104827	0.143499	1.12E-01	1.25E-01	9.55E-02	1.34E-01	1.04E-01
0.131	0.100913	0.127009	1.08E-01	1.23E-01	9.16E-02	1.18E-01	1.00E-01
0.131	0.096998	0.112365	1.04E-01	1.20E-01	8.76E-02	1.03E-01	9.64E-02
0.13	0.093084	0.099568	1.00E-01	1.16E-01	8.37E-02	9.02E-02	9.26E-02
0.13	0.089169	0.088618	9.61E-02	1.11E-01	7.98E-02	7.93E-02	8.88E-02
0.114	0.085255	0.079514	9.21E-02	1.05E-01	7.59E-02	7.02E-02	8.50E-02
0.089	0.048387	0.089078	5.53E-02	3.79E-02	3.90E-02	7.97E-02	4.72E-02
0.088	0.044357	0.065963	5.12E-02	3.60E-02	3.50E-02	5.66E-02	4.34E-02
0.088	0.040327	0.044695	4.72E-02	3.29E-02	3.10E-02	3.53E-02	3.96E-02
0.085	0.036297	0.025272	4.32E-02	2.88E-02	2.69E-02	1.59E-02	3.59E-02
0.083	0.032267	0.007697	3.92E-02	2.36E-02	2.29E-02	-1.66E-03	3.21E-02
0.061	0.028237	-0.00803	3.51E-02	1.74E-02	1.89E-02	-1.74E-02	2.83E-02
0.435	0.326329	0.280791	3.33E-01	2.89E-01	3.23E-01	2.78E-01	3.25E-01
0.433	0.322761	0.284176	3.30E-01	2.87E-01	3.20E-01	2.81E-01	3.22E-01
0.432	0.319192	0.289408	3.26E-01	2.84E-01	3.16E-01	2.86E-01	3.18E-01
0.432	0.315624	0.296486	3.23E-01	2.80E-01	3.12E-01	2.93E-01	3.14E-01
0.429	0.312056	0.305411	3.19E-01	2.75E-01	3.09E-01	3.02E-01	3.10E-01
0.411	0.308487	0.316183	3.15E-01	2.69E-01	3.05E-01	3.13E-01	3.07E-01
0.356	0.298109	0.274746	3.05E-01	2.86E-01	2.95E-01	2.72E-01	2.97E-01
0.357	0.294483	0.274819	3.01E-01	2.84E-01	2.91E-01	2.72E-01	2.93E-01
0.355	0.290857	0.276738	2.98E-01	2.81E-01	2.88E-01	2.74E-01	2.89E-01
0.351	0.287231	0.280504	2.94E-01	2.77E-01	2.84E-01	2.77E-01	2.86E-01
0.35	0.283605	0.286116	2.90E-01	2.72E-01	2.80E-01	2.83E-01	2.82E-01
0.329	0.279978	0.293575	2.87E-01	2.66E-01	2.77E-01	2.90E-01	2.78E-01
0.281	0.269889	0.265445	2.77E-01	2.77E-01	2.67E-01	2.62E-01	2.69E-01
0.282	0.266205	0.262205	2.73E-01	2.75E-01	2.63E-01	2.59E-01	2.65E-01
0.282	0.262521	0.260812	2.69E-01	2.72E-01	2.59E-01	2.58E-01	2.61E-01
0.28	0.258837	0.261265	2.66E-01	2.68E-01	2.56E-01	2.58E-01	2.57E-01
0.281	0.255153	0.263565	2.62E-01	2.63E-01	2.52E-01	2.60E-01	2.54E-01
0.266	0.25147	0.267711	2.58E-01	2.56E-01	2.48E-01	2.65E-01	2.50E-01
0.182	0.213448	0.237074	2.20E-01	2.40E-01	2.10E-01	2.34E-01	2.12E-01
0.181	0.209649	0.227209	2.17E-01	2.38E-01	2.06E-01	2.24E-01	2.08E-01
0.18	0.20585	0.219191	2.13E-01	2.35E-01	2.03E-01	2.16E-01	2.04E-01
0.181	0.20205	0.213019	2.09E-01	2.30E-01	1.99E-01	2.10E-01	2.01E-01
0.179	0.198251	0.208694	2.05E-01	2.25E-01	1.95E-01	2.06E-01	1.97E-01
0.155	0.194452	0.206215	2.01E-01	2.19E-01	1.91E-01	2.03E-01	1.93E-01
0.136	0.157007	0.195679	1.64E-01	1.77E-01	1.54E-01	1.93E-01	1.55E-01
0.135	0.153093	0.179189	1.60E-01	1.75E-01	1.50E-01	1.76E-01	1.51E-01
0.131	0.149178	0.164545	1.56E-01	1.72E-01	1.46E-01	1.61E-01	1.48E-01
0.131	0.145264	0.151748	1.52E-01	1.68E-01	1.42E-01	1.49E-01	1.44E-01
0.129	0.141349	0.140798	1.48E-01	1.63E-01	1.38E-01	1.38E-01	1.40E-01
0.102	0.137435	0.131694	1.44E-01	1.57E-01	1.34E-01	1.29E-01	1.36E-01
0.098	0.100567	0.141258	1.07E-01	9.01E-02	9.74E-02	1.38E-01	9.85E-02
0.098	0.096537	0.118143	1.03E-01	8.81E-02	9.34E-02	1.15E-01	9.47E-02

0.095	0.092507	0.096874	9.94E-02	8.51E-02	8.94E-02	9.37E-02	9.09E-02
0.094	0.088477	0.077452	9.54E-02	8.10E-02	8.53E-02	7.43E-02	8.72E-02
0.093	0.084447	0.059877	9.13E-02	7.58E-02	8.13E-02	5.67E-02	8.34E-02
0.061	0.080417	0.044148	8.73E-02	6.96E-02	7.73E-02	4.10E-02	7.96E-02
0.176	0.215537	0.169999	2.11E-01	1.79E-01	2.25E-01	1.79E-01	2.15E-01
0.175	0.211969	0.173384	2.08E-01	1.77E-01	2.21E-01	1.83E-01	2.11E-01
0.175	0.2084	0.178616	2.04E-01	1.74E-01	2.18E-01	1.88E-01	2.08E-01
0.173	0.204832	0.185694	2.01E-01	1.70E-01	2.14E-01	1.95E-01	2.04E-01
0.171	0.201263	0.194619	1.97E-01	1.64E-01	2.11E-01	2.04E-01	2.00E-01
0.164	0.197695	0.20539	1.93E-01	1.58E-01	2.07E-01	2.15E-01	1.96E-01
0.153	0.187317	0.163954	1.83E-01	1.76E-01	1.97E-01	1.73E-01	1.87E-01
0.151	0.183691	0.164027	1.79E-01	1.74E-01	1.93E-01	1.73E-01	1.83E-01
0.15	0.180064	0.165946	1.76E-01	1.71E-01	1.89E-01	1.75E-01	1.79E-01
0.154	0.176438	0.169712	1.72E-01	1.66E-01	1.86E-01	1.79E-01	1.76E-01
0.151	0.172812	0.175324	1.69E-01	1.61E-01	1.82E-01	1.85E-01	1.72E-01
0.142	0.169186	0.182783	1.65E-01	1.55E-01	1.79E-01	1.92E-01	1.68E-01
0.111	0.159096	0.154653	1.55E-01	1.66E-01	1.68E-01	1.64E-01	1.58E-01
0.108	0.155413	0.151413	1.51E-01	1.64E-01	1.65E-01	1.61E-01	1.55E-01
0.109	0.151729	0.15002	1.47E-01	1.61E-01	1.61E-01	1.59E-01	1.51E-01
0.11	0.148045	0.150473	1.44E-01	1.57E-01	1.57E-01	1.60E-01	1.47E-01
0.105	0.144361	0.152773	1.40E-01	1.52E-01	1.54E-01	1.62E-01	1.43E-01
0.091	0.140677	0.156919	1.36E-01	1.46E-01	1.50E-01	1.66E-01	1.40E-01
0.083	0.102656	0.126282	9.84E-02	1.29E-01	1.12E-01	1.36E-01	1.02E-01
0.081	0.098857	0.116417	9.46E-02	1.27E-01	1.08E-01	1.26E-01	9.80E-02
0.08	0.095057	0.108399	9.08E-02	1.24E-01	1.04E-01	1.18E-01	9.42E-02
0.081	0.091258	0.102227	8.70E-02	1.20E-01	1.01E-01	1.12E-01	9.04E-02
0.079	0.087459	0.097901	8.32E-02	1.15E-01	9.68E-02	1.07E-01	8.67E-02
0.052	0.08366	0.095423	7.94E-02	1.08E-01	9.30E-02	1.05E-01	8.29E-02
0.051	0.046215	0.084886	4.20E-02	6.65E-02	5.56E-02	9.42E-02	4.50E-02
0.05	0.0423	0.068396	3.80E-02	6.45E-02	5.16E-02	7.77E-02	4.12E-02
0.051	0.038386	0.053753	3.41E-02	6.15E-02	4.77E-02	6.31E-02	3.75E-02
0.048	0.034471	0.040956	3.02E-02	5.74E-02	4.38E-02	5.03E-02	3.37E-02
0.043	0.030557	0.030005	2.63E-02	5.22E-02	3.99E-02	3.93E-02	2.99E-02
0.024	0.026642	0.020901	2.24E-02	4.60E-02	3.60E-02	3.02E-02	2.62E-02
0.022	-0.01023	0.030466	-1.45E-02	-2.07E-02	-8.83E-04	3.98E-02	-1.17E-02
0.021	-0.01426	0.007351	-1.85E-02	-2.27E-02	-4.91E-03	1.67E-02	-1.55E-02
0.02	-0.01829	-0.01392	-2.25E-02	-2.57E-02	-8.94E-03	-4.57E-03	-1.93E-02
0.018	-0.02232	-0.03334	-2.66E-02	-2.98E-02	-1.30E-02	-2.40E-02	-2.30E-02
0.015	-0.02635	-0.05092	-3.06E-02	-3.50E-02	-1.70E-02	-4.16E-02	-2.68E-02
0.009	-0.03038	-0.06664	-3.46E-02	-4.12E-02	-2.10E-02	-5.73E-02	-3.06E-02
0.24	0.241627	0.196089	2.37E-01	2.05E-01	2.39E-01	1.94E-01	2.42E-01
0.242	0.238059	0.199474	2.34E-01	2.03E-01	2.36E-01	1.97E-01	2.39E-01
0.243	0.23449	0.204706	2.30E-01	2.00E-01	2.32E-01	2.03E-01	2.35E-01
0.244	0.230922	0.211784	2.27E-01	1.96E-01	2.29E-01	2.10E-01	2.31E-01
0.24	0.227353	0.220709	2.23E-01	1.90E-01	2.25E-01	2.19E-01	2.27E-01
0.214	0.223785	0.23148	2.20E-01	1.84E-01	2.22E-01	2.29E-01	2.23E-01
0.203	0.213407	0.190044	2.09E-01	2.02E-01	2.11E-01	1.88E-01	2.14E-01
0.204	0.209781	0.190117	2.06E-01	2.00E-01	2.08E-01	1.88E-01	2.10E-01

0.202	0.206154	0.192036	2.02E-01	1.97E-01	2.04E-01	1.90E-01	2.06E-01
0.203	0.202528	0.195802	1.98E-01	1.93E-01	2.00E-01	1.94E-01	2.03E-01
0.205	0.198902	0.201414	1.95E-01	1.87E-01	1.97E-01	1.99E-01	1.99E-01
0.178	0.195276	0.208873	1.91E-01	1.81E-01	1.93E-01	2.07E-01	1.95E-01
0.169	0.185186	0.180743	1.81E-01	1.92E-01	1.83E-01	1.79E-01	1.86E-01
0.165	0.181502	0.177503	1.77E-01	1.90E-01	1.79E-01	1.75E-01	1.82E-01
0.164	0.177819	0.17611	1.74E-01	1.87E-01	1.76E-01	1.74E-01	1.78E-01
0.163	0.174135	0.176563	1.70E-01	1.83E-01	1.72E-01	1.74E-01	1.74E-01
0.16	0.170451	0.178863	1.66E-01	1.78E-01	1.68E-01	1.77E-01	1.70E-01
0.146	0.166767	0.183009	1.63E-01	1.72E-01	1.65E-01	1.81E-01	1.67E-01
0.123	0.128746	0.152372	1.24E-01	1.55E-01	1.27E-01	1.50E-01	1.29E-01
0.124	0.124946	0.142507	1.21E-01	1.53E-01	1.23E-01	1.40E-01	1.25E-01
0.124	0.121147	0.134489	1.17E-01	1.50E-01	1.19E-01	1.32E-01	1.21E-01
0.124	0.117348	0.128317	1.13E-01	1.46E-01	1.15E-01	1.26E-01	1.18E-01
0.125	0.113549	0.123991	1.09E-01	1.41E-01	1.11E-01	1.22E-01	1.14E-01
0.107	0.10975	0.121512	1.05E-01	1.34E-01	1.08E-01	1.19E-01	1.10E-01
0.103	0.072305	0.110976	6.80E-02	9.26E-02	7.02E-02	1.09E-01	7.21E-02
0.101	0.06839	0.094486	6.41E-02	9.06E-02	6.62E-02	9.23E-02	6.83E-02
0.1	0.064476	0.079843	6.02E-02	8.76E-02	6.23E-02	7.77E-02	6.46E-02
0.1	0.060561	0.067046	5.63E-02	8.35E-02	5.84E-02	6.49E-02	6.08E-02
0.102	0.056647	0.056095	5.24E-02	7.83E-02	5.45E-02	5.39E-02	5.70E-02
0.075	0.052732	0.046991	4.85E-02	7.21E-02	5.06E-02	4.48E-02	5.33E-02
0.051	0.015864	0.056556	1.16E-02	5.40E-03	1.37E-02	5.44E-02	1.54E-02
0.05	0.011834	0.033441	7.58E-03	3.43E-03	9.68E-03	3.13E-02	1.16E-02
0.048	0.007804	0.012172	3.55E-03	3.93E-04	5.65E-03	1.00E-02	7.84E-03
0.045	0.003775	-0.00725	-4.82E-04	-3.72E-03	1.62E-03	-9.40E-03	4.07E-03
0.044	-0.00026	-0.02483	-4.51E-03	-8.90E-03	-2.41E-03	-2.70E-02	2.95E-04
0.015	-0.00429	-0.04055	-8.54E-03	-1.52E-02	-6.44E-03	-4.27E-02	-3.47E-03
0.327	0.293807	0.248269	2.90E-01	2.57E-01	2.98E-01	2.52E-01	2.96E-01
0.328	0.290238	0.251654	2.86E-01	2.55E-01	2.94E-01	2.56E-01	2.93E-01
0.327	0.28667	0.256886	2.82E-01	2.52E-01	2.91E-01	2.61E-01	2.89E-01
0.325	0.283102	0.263964	2.79E-01	2.48E-01	2.87E-01	2.68E-01	2.85E-01
0.321	0.279533	0.272889	2.75E-01	2.43E-01	2.84E-01	2.77E-01	2.81E-01
0.307	0.275965	0.28366	2.72E-01	2.36E-01	2.80E-01	2.88E-01	2.78E-01
0.289	0.265586	0.242224	2.61E-01	2.54E-01	2.70E-01	2.46E-01	2.68E-01
0.29	0.26196	0.242296	2.58E-01	2.52E-01	2.66E-01	2.46E-01	2.64E-01
0.284	0.258334	0.244216	2.54E-01	2.49E-01	2.62E-01	2.48E-01	2.61E-01
0.283	0.254708	0.247981	2.50E-01	2.45E-01	2.59E-01	2.52E-01	2.57E-01
0.281	0.251082	0.253594	2.47E-01	2.39E-01	2.55E-01	2.58E-01	2.53E-01
0.256	0.247456	0.261052	2.43E-01	2.33E-01	2.52E-01	2.65E-01	2.49E-01
0.211	0.237366	0.232923	2.33E-01	2.44E-01	2.41E-01	2.37E-01	2.40E-01
0.212	0.233682	0.229683	2.29E-01	2.42E-01	2.38E-01	2.34E-01	2.36E-01
0.204	0.229999	0.228289	2.26E-01	2.39E-01	2.34E-01	2.32E-01	2.32E-01
0.202	0.226315	0.228743	2.22E-01	2.35E-01	2.30E-01	2.33E-01	2.28E-01
0.201	0.222631	0.231042	2.18E-01	2.30E-01	2.27E-01	2.35E-01	2.25E-01
0.174	0.218947	0.235189	2.15E-01	2.24E-01	2.23E-01	2.39E-01	2.21E-01
0.151	0.180925	0.204552	1.77E-01	2.07E-01	1.85E-01	2.09E-01	1.83E-01
0.155	0.177126	0.194687	1.73E-01	2.05E-01	1.81E-01	1.99E-01	1.79E-01

0.154	0.173327	0.186668	1.69E-01	2.02E-01	1.77E-01	1.91E-01	1.75E-01
0.153	0.169528	0.180497	1.65E-01	1.98E-01	1.74E-01	1.85E-01	1.72E-01
0.148	0.165729	0.176171	1.61E-01	1.93E-01	1.70E-01	1.80E-01	1.68E-01
0.132	0.16193	0.173692	1.58E-01	1.87E-01	1.66E-01	1.78E-01	1.64E-01
0.105	0.124485	0.163156	1.20E-01	1.45E-01	1.29E-01	1.67E-01	1.26E-01
0.106	0.12057	0.146666	1.16E-01	1.43E-01	1.25E-01	1.51E-01	1.23E-01
0.101	0.116656	0.132023	1.12E-01	1.40E-01	1.21E-01	1.36E-01	1.19E-01
0.1	0.112741	0.119226	1.08E-01	1.36E-01	1.17E-01	1.23E-01	1.15E-01
0.097	0.108827	0.108275	1.05E-01	1.30E-01	1.13E-01	1.12E-01	1.11E-01
0.078	0.104912	0.099171	1.01E-01	1.24E-01	1.09E-01	1.03E-01	1.07E-01
0.062	0.068044	0.108736	6.38E-02	5.76E-02	7.21E-02	1.13E-01	6.96E-02
0.063	0.064014	0.085621	5.98E-02	5.56E-02	6.81E-02	8.97E-02	6.58E-02
0.061	0.059984	0.064352	5.57E-02	5.26E-02	6.40E-02	6.84E-02	6.20E-02
0.055	0.055954	0.04493	5.17E-02	4.85E-02	6.00E-02	4.90E-02	5.83E-02
0.047	0.051925	0.027354	4.77E-02	4.33E-02	5.60E-02	3.14E-02	5.45E-02
0.021	0.047895	0.011625	4.36E-02	3.70E-02	5.19E-02	1.57E-02	5.07E-02
0.231	0.23142	0.185882	2.27E-01	1.95E-01	2.34E-01	1.88E-01	2.32E-01
0.23	0.227852	0.189267	2.24E-01	1.93E-01	2.30E-01	1.91E-01	2.28E-01
0.229	0.224283	0.194499	2.20E-01	1.90E-01	2.26E-01	1.97E-01	2.24E-01
0.225	0.220715	0.201577	2.16E-01	1.85E-01	2.23E-01	2.04E-01	2.20E-01
0.221	0.217146	0.210502	2.13E-01	1.80E-01	2.19E-01	2.13E-01	2.17E-01
0.206	0.213578	0.221273	2.09E-01	1.74E-01	2.16E-01	2.23E-01	2.13E-01
0.201	0.2032	0.179837	1.99E-01	1.91E-01	2.05E-01	1.82E-01	2.03E-01
0.2	0.199574	0.17991	1.95E-01	1.89E-01	2.02E-01	1.82E-01	2.00E-01
0.198	0.195947	0.181829	1.92E-01	1.86E-01	1.98E-01	1.84E-01	1.96E-01
0.196	0.192321	0.185595	1.88E-01	1.82E-01	1.94E-01	1.88E-01	1.92E-01
0.186	0.188695	0.191207	1.84E-01	1.77E-01	1.91E-01	1.93E-01	1.88E-01
0.171	0.185069	0.198666	1.81E-01	1.71E-01	1.87E-01	2.01E-01	1.85E-01
0.173	0.174979	0.170536	1.71E-01	1.82E-01	1.77E-01	1.73E-01	1.75E-01
0.168	0.171296	0.167296	1.67E-01	1.80E-01	1.73E-01	1.69E-01	1.71E-01
0.165	0.167612	0.165903	1.63E-01	1.77E-01	1.70E-01	1.68E-01	1.68E-01
0.163	0.163928	0.166356	1.60E-01	1.73E-01	1.66E-01	1.69E-01	1.64E-01
0.16	0.160244	0.168656	1.56E-01	1.68E-01	1.62E-01	1.71E-01	1.60E-01
0.147	0.15656	0.172802	1.52E-01	1.62E-01	1.59E-01	1.75E-01	1.56E-01
0.136	0.118539	0.142165	1.14E-01	1.45E-01	1.21E-01	1.44E-01	1.18E-01
0.134	0.114739	0.1323	1.10E-01	1.43E-01	1.17E-01	1.34E-01	1.15E-01
0.131	0.11094	0.124282	1.07E-01	1.40E-01	1.13E-01	1.26E-01	1.11E-01
0.13	0.107141	0.11811	1.03E-01	1.36E-01	1.09E-01	1.20E-01	1.07E-01
0.128	0.103342	0.113784	9.91E-02	1.30E-01	1.05E-01	1.16E-01	1.03E-01
0.108	0.099543	0.111305	9.53E-02	1.24E-01	1.02E-01	1.13E-01	9.95E-02
0.089	0.062098	0.100769	5.78E-02	8.24E-02	6.42E-02	1.03E-01	6.16E-02
0.087	0.058183	0.084279	5.39E-02	8.04E-02	6.03E-02	8.64E-02	5.78E-02
0.085	0.054269	0.069636	5.00E-02	7.74E-02	5.64E-02	7.18E-02	5.41E-02
0.081	0.050354	0.056839	4.61E-02	7.33E-02	5.25E-02	5.90E-02	5.03E-02
0.08	0.04644	0.045888	4.22E-02	6.81E-02	4.86E-02	4.80E-02	4.65E-02
0.061	0.042525	0.036784	3.83E-02	6.18E-02	4.47E-02	3.89E-02	4.28E-02
0.041	0.005657	0.046349	1.41E-03	-4.81E-03	7.80E-03	4.85E-02	4.88E-03
0.04	0.001627	0.023234	-2.62E-03	-6.78E-03	3.77E-03	2.54E-02	1.11E-03

0.039	-0.0024	0.001965	-6.65E-03	-9.81E-03	-2.55E-04	4.11E-03	-2.66E-03
0.038	-0.00643	-0.01746	-1.07E-02	-1.39E-02	-4.29E-03	-1.53E-02	-6.43E-03
0.034	-0.01046	-0.03503	-1.47E-02	-1.91E-02	-8.32E-03	-3.29E-02	-1.02E-02
0.018	-0.01449	-0.05076	-1.87E-02	-2.54E-02	-1.23E-02	-4.86E-02	-1.40E-02
0.319	0.25751	0.211972	2.53E-01	2.21E-01	2.48E-01	2.03E-01	2.57E-01
0.32	0.253942	0.215357	2.50E-01	2.19E-01	2.45E-01	2.06E-01	2.54E-01
0.318	0.250373	0.220589	2.46E-01	2.16E-01	2.41E-01	2.11E-01	2.50E-01
0.317	0.246805	0.227667	2.43E-01	2.11E-01	2.37E-01	2.18E-01	2.46E-01
0.315	0.243236	0.236592	2.39E-01	2.06E-01	2.34E-01	2.27E-01	2.42E-01
0.305	0.239668	0.247363	2.35E-01	2.00E-01	2.30E-01	2.38E-01	2.39E-01
0.266	0.22929	0.205927	2.25E-01	2.17E-01	2.20E-01	1.97E-01	2.29E-01
0.265	0.225663	0.206	2.21E-01	2.16E-01	2.16E-01	1.97E-01	2.25E-01
0.261	0.222037	0.207919	2.18E-01	2.12E-01	2.13E-01	1.99E-01	2.22E-01
0.259	0.218411	0.211685	2.14E-01	2.08E-01	2.09E-01	2.02E-01	2.18E-01
0.255	0.214785	0.217297	2.11E-01	2.03E-01	2.05E-01	2.08E-01	2.14E-01
0.225	0.211159	0.224756	2.07E-01	1.97E-01	2.02E-01	2.15E-01	2.10E-01
0.202	0.201069	0.196626	1.97E-01	2.08E-01	1.92E-01	1.87E-01	2.01E-01
0.201	0.197385	0.193386	1.93E-01	2.06E-01	1.88E-01	1.84E-01	1.97E-01
0.203	0.193702	0.191993	1.89E-01	2.03E-01	1.84E-01	1.83E-01	1.93E-01
0.198	0.190018	0.192446	1.86E-01	1.99E-01	1.81E-01	1.83E-01	1.89E-01
0.195	0.186334	0.194746	1.82E-01	1.94E-01	1.77E-01	1.85E-01	1.86E-01
0.176	0.18265	0.198892	1.78E-01	1.88E-01	1.73E-01	1.90E-01	1.82E-01
0.144	0.144629	0.168255	1.40E-01	1.71E-01	1.35E-01	1.59E-01	1.44E-01
0.145	0.140829	0.15839	1.37E-01	1.69E-01	1.31E-01	1.49E-01	1.40E-01
0.149	0.13703	0.150372	1.33E-01	1.66E-01	1.28E-01	1.41E-01	1.36E-01
0.151	0.133231	0.1442	1.29E-01	1.62E-01	1.24E-01	1.35E-01	1.33E-01
0.15	0.129432	0.139874	1.25E-01	1.56E-01	1.20E-01	1.31E-01	1.29E-01
0.136	0.125633	0.137395	1.21E-01	1.50E-01	1.16E-01	1.28E-01	1.25E-01
0.108	0.088188	0.126859	8.39E-02	1.08E-01	7.88E-02	1.18E-01	8.73E-02
0.109	0.084273	0.110369	8.00E-02	1.07E-01	7.49E-02	1.01E-01	8.35E-02
0.105	0.080359	0.095726	7.61E-02	1.03E-01	7.10E-02	8.64E-02	7.97E-02
0.103	0.076444	0.082929	7.22E-02	9.94E-02	6.71E-02	7.36E-02	7.59E-02
0.101	0.07253	0.071978	6.83E-02	9.42E-02	6.32E-02	6.26E-02	7.22E-02
0.084	0.068615	0.062874	6.44E-02	8.79E-02	5.93E-02	5.35E-02	6.84E-02
0.061	0.031747	0.072439	2.75E-02	2.13E-02	2.24E-02	6.31E-02	3.05E-02
0.059	0.027717	0.049324	2.35E-02	1.93E-02	1.84E-02	4.00E-02	2.68E-02
0.06	0.023687	0.028055	1.94E-02	1.63E-02	1.43E-02	1.87E-02	2.30E-02
0.06	0.019658	0.008633	1.54E-02	1.22E-02	1.03E-02	-7.15E-04	1.92E-02
0.055	0.015628	-0.00894	1.14E-02	6.98E-03	6.28E-03	-1.83E-02	1.54E-02
0.032	0.011598	-0.02467	7.35E-03	7.31E-04	2.25E-03	-3.40E-02	1.17E-02
0.435	0.30969	0.264152	3.05E-01	2.73E-01	3.07E-01	2.61E-01	3.09E-01
0.431	0.306121	0.267537	3.02E-01	2.71E-01	3.03E-01	2.64E-01	3.05E-01
0.43	0.302553	0.272769	2.98E-01	2.68E-01	2.99E-01	2.70E-01	3.01E-01
0.428	0.298985	0.279847	2.95E-01	2.64E-01	2.96E-01	2.77E-01	2.97E-01
0.425	0.295416	0.288772	2.91E-01	2.58E-01	2.92E-01	2.86E-01	2.94E-01
0.401	0.291848	0.299543	2.88E-01	2.52E-01	2.89E-01	2.96E-01	2.90E-01
0.318	0.281469	0.258107	2.77E-01	2.70E-01	2.78E-01	2.55E-01	2.80E-01
0.321	0.277843	0.258179	2.74E-01	2.68E-01	2.75E-01	2.55E-01	2.77E-01

0.315	0.274217	0.260099	2.70E-01	2.65E-01	2.71E-01	2.57E-01	2.73E-01
0.316	0.270591	0.263864	2.66E-01	2.61E-01	2.67E-01	2.61E-01	2.69E-01
0.314	0.266965	0.269477	2.63E-01	2.55E-01	2.64E-01	2.66E-01	2.65E-01
0.298	0.263339	0.276935	2.59E-01	2.49E-01	2.60E-01	2.74E-01	2.62E-01
0.244	0.253249	0.248806	2.49E-01	2.60E-01	2.50E-01	2.46E-01	2.52E-01
0.245	0.249565	0.245566	2.45E-01	2.58E-01	2.46E-01	2.42E-01	2.48E-01
0.243	0.245882	0.244172	2.42E-01	2.55E-01	2.43E-01	2.41E-01	2.44E-01
0.239	0.242198	0.244626	2.38E-01	2.51E-01	2.39E-01	2.41E-01	2.41E-01
0.24	0.238514	0.246925	2.34E-01	2.46E-01	2.35E-01	2.44E-01	2.37E-01
0.211	0.23483	0.251072	2.31E-01	2.40E-01	2.32E-01	2.48E-01	2.33E-01
0.176	0.196808	0.220435	1.93E-01	2.23E-01	1.94E-01	2.17E-01	1.95E-01
0.17	0.193009	0.21057	1.89E-01	2.21E-01	1.90E-01	2.07E-01	1.92E-01
0.168	0.18921	0.202551	1.85E-01	2.18E-01	1.86E-01	1.99E-01	1.88E-01
0.167	0.185411	0.19638	1.81E-01	2.14E-01	1.82E-01	1.93E-01	1.84E-01
0.16	0.181612	0.192054	1.77E-01	2.09E-01	1.78E-01	1.89E-01	1.80E-01
0.141	0.177813	0.189575	1.74E-01	2.02E-01	1.75E-01	1.86E-01	1.76E-01
0.122	0.140368	0.179039	1.36E-01	1.61E-01	1.37E-01	1.76E-01	1.39E-01
0.121	0.136453	0.162549	1.32E-01	1.59E-01	1.33E-01	1.59E-01	1.35E-01
0.12	0.132539	0.147906	1.28E-01	1.56E-01	1.29E-01	1.45E-01	1.31E-01
0.119	0.128624	0.135109	1.24E-01	1.52E-01	1.25E-01	1.32E-01	1.27E-01
0.117	0.12471	0.124158	1.20E-01	1.46E-01	1.22E-01	1.21E-01	1.23E-01
0.084	0.120795	0.115054	1.17E-01	1.40E-01	1.18E-01	1.12E-01	1.20E-01
0.071	0.083927	0.124619	7.97E-02	7.35E-02	8.08E-02	1.21E-01	8.18E-02
0.068	0.079897	0.101504	7.56E-02	7.15E-02	7.67E-02	9.84E-02	7.81E-02
0.065	0.075867	0.080235	7.16E-02	6.85E-02	7.27E-02	7.71E-02	7.43E-02
0.066	0.071837	0.060813	6.76E-02	6.43E-02	6.87E-02	5.77E-02	7.05E-02
0.061	0.067808	0.043237	6.36E-02	5.92E-02	6.47E-02	4.01E-02	6.67E-02
0.029	0.063778	0.027508	5.95E-02	5.29E-02	6.06E-02	2.44E-02	6.30E-02
0.184	0.258457	0.212919	2.56E-01	2.22E-01	2.68E-01	2.22E-01	2.58E-01
0.183	0.254889	0.216304	2.52E-01	2.20E-01	2.64E-01	2.26E-01	2.54E-01
0.184	0.25132	0.221536	2.49E-01	2.17E-01	2.61E-01	2.31E-01	2.51E-01
0.185	0.247752	0.228614	2.45E-01	2.12E-01	2.57E-01	2.38E-01	2.47E-01
0.183	0.244184	0.237539	2.42E-01	2.07E-01	2.53E-01	2.47E-01	2.43E-01
0.178	0.240615	0.248311	2.38E-01	2.01E-01	2.50E-01	2.58E-01	2.39E-01
0.171	0.230237	0.206874	2.28E-01	2.18E-01	2.40E-01	2.16E-01	2.30E-01
0.169	0.226611	0.206947	2.24E-01	2.16E-01	2.36E-01	2.16E-01	2.26E-01
0.17	0.222985	0.208866	2.21E-01	2.13E-01	2.32E-01	2.18E-01	2.22E-01
0.168	0.219359	0.212632	2.17E-01	2.09E-01	2.29E-01	2.22E-01	2.18E-01
0.168	0.215733	0.218244	2.13E-01	2.04E-01	2.25E-01	2.28E-01	2.15E-01
0.159	0.212106	0.225703	2.10E-01	1.98E-01	2.21E-01	2.35E-01	2.11E-01
0.156	0.202017	0.197573	2.00E-01	2.09E-01	2.11E-01	2.07E-01	2.01E-01
0.155	0.198333	0.194333	1.96E-01	2.07E-01	2.08E-01	2.04E-01	1.98E-01
0.154	0.194649	0.19294	1.92E-01	2.04E-01	2.04E-01	2.02E-01	1.94E-01
0.154	0.190965	0.193393	1.89E-01	2.00E-01	2.00E-01	2.03E-01	1.90E-01
0.153	0.187281	0.195693	1.85E-01	1.95E-01	1.97E-01	2.05E-01	1.86E-01
0.141	0.183598	0.199839	1.81E-01	1.89E-01	1.93E-01	2.09E-01	1.83E-01
0.12	0.145576	0.169202	1.43E-01	1.72E-01	1.55E-01	1.78E-01	1.45E-01
0.121	0.141777	0.159337	1.39E-01	1.70E-01	1.51E-01	1.69E-01	1.41E-01

0.119	0.137978	0.151319	1.36E-01	1.67E-01	1.47E-01	1.61E-01	1.37E-01
0.117	0.134178	0.145147	1.32E-01	1.63E-01	1.43E-01	1.54E-01	1.33E-01
0.115	0.130379	0.140822	1.28E-01	1.57E-01	1.40E-01	1.50E-01	1.30E-01
0.108	0.12658	0.138343	1.24E-01	1.51E-01	1.36E-01	1.48E-01	1.26E-01
0.096	0.089135	0.127807	8.67E-02	1.09E-01	9.84E-02	1.37E-01	8.79E-02
0.097	0.085221	0.111317	8.28E-02	1.07E-01	9.45E-02	1.21E-01	8.41E-02
0.095	0.081306	0.096673	7.89E-02	1.04E-01	9.06E-02	1.06E-01	8.04E-02
0.094	0.077392	0.083876	7.50E-02	1.00E-01	8.67E-02	9.32E-02	7.66E-02
0.093	0.073477	0.072926	7.11E-02	9.51E-02	8.28E-02	8.22E-02	7.28E-02
0.085	0.069563	0.063822	6.72E-02	8.89E-02	7.89E-02	7.31E-02	6.91E-02
0.075	0.032695	0.073386	3.03E-02	2.22E-02	4.20E-02	8.27E-02	3.12E-02
0.072	0.028665	0.050271	2.63E-02	2.03E-02	3.80E-02	5.96E-02	2.74E-02
0.07	0.024635	0.029002	2.22E-02	1.72E-02	3.39E-02	3.83E-02	2.36E-02
0.068	0.020605	0.00958	1.82E-02	1.31E-02	2.99E-02	1.89E-02	1.99E-02
0.065	0.016575	-0.008	1.42E-02	7.93E-03	2.59E-02	1.30E-03	1.61E-02
0.044	0.012545	-0.02372	1.01E-02	1.68E-03	2.18E-02	-1.44E-02	1.23E-02
0.265	0.284547	0.239009	2.82E-01	2.48E-01	2.82E-01	2.37E-01	2.85E-01
0.264	0.280979	0.242394	2.79E-01	2.46E-01	2.79E-01	2.40E-01	2.81E-01
0.264	0.27741	0.247626	2.75E-01	2.43E-01	2.75E-01	2.45E-01	2.78E-01
0.263	0.273842	0.254704	2.71E-01	2.39E-01	2.72E-01	2.53E-01	2.74E-01
0.264	0.270274	0.263629	2.68E-01	2.33E-01	2.68E-01	2.61E-01	2.70E-01
0.253	0.266705	0.274401	2.64E-01	2.27E-01	2.65E-01	2.72E-01	2.66E-01
0.247	0.256327	0.232964	2.54E-01	2.45E-01	2.54E-01	2.31E-01	2.57E-01
0.246	0.252701	0.233037	2.50E-01	2.43E-01	2.51E-01	2.31E-01	2.53E-01
0.245	0.249075	0.234956	2.47E-01	2.40E-01	2.47E-01	2.33E-01	2.49E-01
0.244	0.245449	0.238722	2.43E-01	2.35E-01	2.43E-01	2.37E-01	2.46E-01
0.244	0.241822	0.244334	2.39E-01	2.30E-01	2.40E-01	2.42E-01	2.42E-01
0.233	0.238196	0.251793	2.36E-01	2.24E-01	2.36E-01	2.50E-01	2.38E-01
0.219	0.228107	0.223663	2.26E-01	2.35E-01	2.26E-01	2.21E-01	2.28E-01
0.22	0.224423	0.220423	2.22E-01	2.33E-01	2.22E-01	2.18E-01	2.25E-01
0.221	0.220739	0.21903	2.18E-01	2.30E-01	2.19E-01	2.17E-01	2.21E-01
0.218	0.217055	0.219483	2.15E-01	2.26E-01	2.15E-01	2.17E-01	2.17E-01
0.217	0.213371	0.221783	2.11E-01	2.21E-01	2.11E-01	2.20E-01	2.13E-01
0.201	0.209688	0.225929	2.07E-01	2.15E-01	2.07E-01	2.24E-01	2.10E-01
0.186	0.171666	0.195292	1.69E-01	1.98E-01	1.69E-01	1.93E-01	1.72E-01
0.187	0.167867	0.185427	1.65E-01	1.96E-01	1.66E-01	1.83E-01	1.68E-01
0.185	0.164068	0.177409	1.62E-01	1.93E-01	1.62E-01	1.75E-01	1.64E-01
0.184	0.160268	0.171237	1.58E-01	1.89E-01	1.58E-01	1.69E-01	1.60E-01
0.184	0.156469	0.166912	1.54E-01	1.84E-01	1.54E-01	1.65E-01	1.57E-01
0.159	0.15267	0.164433	1.50E-01	1.77E-01	1.50E-01	1.62E-01	1.53E-01
0.148	0.115225	0.153897	1.13E-01	1.36E-01	1.13E-01	1.52E-01	1.15E-01
0.149	0.111311	0.137407	1.09E-01	1.34E-01	1.09E-01	1.35E-01	1.11E-01
0.151	0.107396	0.122763	1.05E-01	1.31E-01	1.05E-01	1.21E-01	1.07E-01
0.15	0.103482	0.109966	1.01E-01	1.26E-01	1.01E-01	1.08E-01	1.04E-01
0.149	0.099567	0.099016	9.72E-02	1.21E-01	9.74E-02	9.68E-02	9.99E-02
0.141	0.095653	0.089912	9.32E-02	1.15E-01	9.35E-02	8.77E-02	9.62E-02
0.116	0.058784	0.099476	5.64E-02	4.83E-02	5.66E-02	9.73E-02	5.83E-02
0.115	0.054755	0.076361	5.23E-02	4.64E-02	5.26E-02	7.42E-02	5.45E-02

0.112	0.050725	0.055092	4.83E-02	4.33E-02	4.85E-02	5.29E-02	5.07E-02
0.111	0.046695	0.03567	4.43E-02	3.92E-02	4.45E-02	3.35E-02	4.70E-02
0.11	0.042665	0.018095	4.03E-02	3.40E-02	4.05E-02	1.59E-02	4.32E-02
0.091	0.038635	0.002365	3.62E-02	2.78E-02	3.64E-02	1.67E-04	3.94E-02
0.345	0.336727	0.291189	3.34E-01	3.00E-01	3.41E-01	2.95E-01	3.39E-01
0.344	0.333159	0.294574	3.31E-01	2.98E-01	3.37E-01	2.99E-01	3.36E-01
0.343	0.32959	0.299806	3.27E-01	2.95E-01	3.34E-01	3.04E-01	3.32E-01
0.343	0.326022	0.306884	3.24E-01	2.91E-01	3.30E-01	3.11E-01	3.28E-01
0.345	0.322453	0.315809	3.20E-01	2.86E-01	3.26E-01	3.20E-01	3.24E-01
0.319	0.318885	0.32658	3.16E-01	2.79E-01	3.23E-01	3.31E-01	3.21E-01
0.321	0.308507	0.285144	3.06E-01	2.97E-01	3.13E-01	2.89E-01	3.11E-01
0.32	0.304881	0.285217	3.02E-01	2.95E-01	3.09E-01	2.89E-01	3.07E-01
0.32	0.301255	0.287136	2.99E-01	2.92E-01	3.05E-01	2.91E-01	3.03E-01
0.319	0.297628	0.290902	2.95E-01	2.88E-01	3.02E-01	2.95E-01	3.00E-01
0.318	0.294002	0.296514	2.92E-01	2.82E-01	2.98E-01	3.01E-01	2.96E-01
0.295	0.290376	0.303973	2.88E-01	2.76E-01	2.94E-01	3.08E-01	2.92E-01
0.285	0.280286	0.275843	2.78E-01	2.87E-01	2.84E-01	2.80E-01	2.83E-01
0.284	0.276603	0.272603	2.74E-01	2.85E-01	2.81E-01	2.77E-01	2.79E-01
0.283	0.272919	0.27121	2.71E-01	2.82E-01	2.77E-01	2.75E-01	2.75E-01
0.28	0.269235	0.271663	2.67E-01	2.78E-01	2.73E-01	2.76E-01	2.71E-01
0.28	0.265551	0.273963	2.63E-01	2.73E-01	2.70E-01	2.78E-01	2.68E-01
0.237	0.261867	0.278109	2.59E-01	2.67E-01	2.66E-01	2.82E-01	2.64E-01
0.191	0.223846	0.247472	2.21E-01	2.50E-01	2.28E-01	2.51E-01	2.26E-01
0.192	0.220047	0.237607	2.18E-01	2.48E-01	2.24E-01	2.42E-01	2.22E-01
0.195	0.216247	0.229589	2.14E-01	2.45E-01	2.20E-01	2.34E-01	2.18E-01
0.191	0.212448	0.223417	2.10E-01	2.41E-01	2.16E-01	2.27E-01	2.15E-01
0.192	0.208649	0.219091	2.06E-01	2.36E-01	2.13E-01	2.23E-01	2.11E-01
0.176	0.20485	0.216613	2.02E-01	2.29E-01	2.09E-01	2.21E-01	2.07E-01
0.149	0.167405	0.206077	1.65E-01	1.88E-01	1.71E-01	2.10E-01	1.69E-01
0.148	0.163491	0.189586	1.61E-01	1.86E-01	1.67E-01	1.94E-01	1.65E-01
0.151	0.159576	0.174943	1.57E-01	1.83E-01	1.64E-01	1.79E-01	1.62E-01
0.149	0.155661	0.162146	1.53E-01	1.79E-01	1.60E-01	1.66E-01	1.58E-01
0.148	0.151747	0.151195	1.49E-01	1.73E-01	1.56E-01	1.55E-01	1.54E-01
0.138	0.147832	0.142091	1.45E-01	1.67E-01	1.52E-01	1.46E-01	1.50E-01
0.113	0.110964	0.151656	1.09E-01	1.00E-01	1.15E-01	1.56E-01	1.12E-01
0.112	0.106934	0.128541	1.05E-01	9.85E-02	1.11E-01	1.33E-01	1.09E-01
0.112	0.102905	0.107272	1.00E-01	9.55E-02	1.07E-01	1.11E-01	1.05E-01
0.11	0.098875	0.08785	9.65E-02	9.14E-02	1.03E-01	9.18E-02	1.01E-01
0.099	0.094845	0.070274	9.24E-02	8.62E-02	9.88E-02	7.43E-02	9.74E-02
0.087	0.090815	0.054545	8.84E-02	7.99E-02	9.48E-02	5.85E-02	9.36E-02
0.257	0.27434	0.228802	2.72E-01	2.37E-01	2.76E-01	2.31E-01	2.75E-01
0.258	0.270772	0.232187	2.68E-01	2.35E-01	2.73E-01	2.34E-01	2.71E-01
0.257	0.267203	0.237419	2.65E-01	2.32E-01	2.69E-01	2.40E-01	2.67E-01
0.259	0.263635	0.244497	2.61E-01	2.28E-01	2.66E-01	2.47E-01	2.63E-01
0.255	0.260067	0.253422	2.58E-01	2.23E-01	2.62E-01	2.56E-01	2.60E-01
0.248	0.256498	0.264194	2.54E-01	2.17E-01	2.59E-01	2.66E-01	2.56E-01
0.229	0.24612	0.222757	2.44E-01	2.34E-01	2.48E-01	2.25E-01	2.46E-01
0.23	0.242494	0.22283	2.40E-01	2.32E-01	2.45E-01	2.25E-01	2.43E-01

0.228	0.238868	0.224749	2.36E-01	2.29E-01	2.41E-01	2.27E-01	2.39E-01
0.227	0.235242	0.228515	2.33E-01	2.25E-01	2.37E-01	2.31E-01	2.35E-01
0.226	0.231615	0.234127	2.29E-01	2.20E-01	2.34E-01	2.36E-01	2.31E-01
0.211	0.227989	0.241586	2.26E-01	2.14E-01	2.30E-01	2.44E-01	2.27E-01
0.211	0.2179	0.213456	2.15E-01	2.25E-01	2.20E-01	2.16E-01	2.18E-01
0.21	0.214216	0.210216	2.12E-01	2.23E-01	2.16E-01	2.12E-01	2.14E-01
0.21	0.210532	0.208823	2.08E-01	2.20E-01	2.13E-01	2.11E-01	2.10E-01
0.209	0.206848	0.209276	2.04E-01	2.16E-01	2.09E-01	2.11E-01	2.07E-01
0.208	0.203164	0.211576	2.01E-01	2.11E-01	2.05E-01	2.14E-01	2.03E-01
0.189	0.199481	0.215722	1.97E-01	2.04E-01	2.02E-01	2.18E-01	1.99E-01
0.165	0.161459	0.185085	1.59E-01	1.88E-01	1.64E-01	1.87E-01	1.61E-01
0.166	0.15766	0.17522	1.55E-01	1.86E-01	1.60E-01	1.77E-01	1.57E-01
0.167	0.153861	0.167202	1.51E-01	1.83E-01	1.56E-01	1.69E-01	1.54E-01
0.168	0.150061	0.16103	1.48E-01	1.78E-01	1.52E-01	1.63E-01	1.50E-01
0.165	0.146262	0.156705	1.44E-01	1.73E-01	1.48E-01	1.59E-01	1.46E-01
0.159	0.142463	0.154226	1.40E-01	1.67E-01	1.45E-01	1.56E-01	1.42E-01
0.139	0.105018	0.14369	1.03E-01	1.25E-01	1.07E-01	1.46E-01	1.05E-01
0.14	0.101104	0.1272	9.87E-02	1.23E-01	1.03E-01	1.29E-01	1.01E-01
0.14	0.097189	0.112556	9.48E-02	1.20E-01	9.93E-02	1.15E-01	9.70E-02
0.141	0.093275	0.099759	9.09E-02	1.16E-01	9.54E-02	1.02E-01	9.32E-02
0.138	0.08936	0.088809	8.70E-02	1.11E-01	9.15E-02	9.09E-02	8.94E-02
0.125	0.085446	0.079705	8.30E-02	1.05E-01	8.75E-02	8.18E-02	8.57E-02
0.111	0.048578	0.089269	4.62E-02	3.81E-02	5.07E-02	9.14E-02	4.78E-02
0.109	0.044548	0.066154	4.21E-02	3.61E-02	4.66E-02	6.83E-02	4.40E-02
0.108	0.040518	0.044885	3.81E-02	3.31E-02	4.26E-02	4.70E-02	4.02E-02
0.107	0.036488	0.025463	3.41E-02	2.90E-02	3.86E-02	2.76E-02	3.65E-02
0.106	0.032458	0.007888	3.01E-02	2.38E-02	3.46E-02	9.99E-03	3.27E-02
0.087	0.028428	-0.00784	2.60E-02	1.76E-02	3.05E-02	-5.74E-03	2.89E-02
0.372	0.30043	0.254892	2.98E-01	2.64E-01	2.91E-01	2.45E-01	3.00E-01
0.371	0.296862	0.258277	2.94E-01	2.62E-01	2.87E-01	2.49E-01	2.97E-01
0.37	0.293293	0.263509	2.91E-01	2.59E-01	2.84E-01	2.54E-01	2.93E-01
0.37	0.289725	0.270587	2.87E-01	2.54E-01	2.80E-01	2.61E-01	2.89E-01
0.368	0.286156	0.279512	2.84E-01	2.49E-01	2.77E-01	2.70E-01	2.85E-01
0.349	0.282588	0.290283	2.80E-01	2.43E-01	2.73E-01	2.81E-01	2.81E-01
0.324	0.27221	0.248847	2.70E-01	2.60E-01	2.63E-01	2.39E-01	2.72E-01
0.323	0.268584	0.24892	2.66E-01	2.58E-01	2.59E-01	2.40E-01	2.68E-01
0.321	0.264958	0.250839	2.63E-01	2.55E-01	2.56E-01	2.41E-01	2.64E-01
0.32	0.261332	0.254605	2.59E-01	2.51E-01	2.52E-01	2.45E-01	2.61E-01
0.32	0.257705	0.260217	2.55E-01	2.46E-01	2.48E-01	2.51E-01	2.57E-01
0.301	0.254079	0.267676	2.52E-01	2.40E-01	2.45E-01	2.58E-01	2.53E-01
0.288	0.243989	0.239546	2.42E-01	2.51E-01	2.35E-01	2.30E-01	2.44E-01
0.289	0.240306	0.236306	2.38E-01	2.49E-01	2.31E-01	2.27E-01	2.40E-01
0.286	0.236622	0.234913	2.34E-01	2.46E-01	2.27E-01	2.26E-01	2.36E-01
0.284	0.232938	0.235366	2.31E-01	2.42E-01	2.24E-01	2.26E-01	2.32E-01
0.284	0.229254	0.237666	2.27E-01	2.37E-01	2.20E-01	2.28E-01	2.29E-01
0.26	0.225571	0.241812	2.23E-01	2.31E-01	2.16E-01	2.32E-01	2.25E-01
0.211	0.187549	0.211175	1.85E-01	2.14E-01	1.78E-01	2.02E-01	1.87E-01
0.212	0.18375	0.20131	1.81E-01	2.12E-01	1.74E-01	1.92E-01	1.83E-01

0.212	0.179951	0.193292	1.78E-01	2.09E-01	1.71E-01	1.84E-01	1.79E-01
0.213	0.176151	0.18712	1.74E-01	2.05E-01	1.67E-01	1.78E-01	1.76E-01
0.21	0.172352	0.182795	1.70E-01	1.99E-01	1.63E-01	1.73E-01	1.72E-01
0.179	0.168553	0.180316	1.66E-01	1.93E-01	1.59E-01	1.71E-01	1.68E-01
0.144	0.131108	0.16978	1.29E-01	1.51E-01	1.22E-01	1.60E-01	1.30E-01
0.145	0.127194	0.15329	1.25E-01	1.49E-01	1.18E-01	1.44E-01	1.26E-01
0.146	0.123279	0.138646	1.21E-01	1.46E-01	1.14E-01	1.29E-01	1.23E-01
0.147	0.119365	0.125849	1.17E-01	1.42E-01	1.10E-01	1.16E-01	1.19E-01
0.148	0.11545	0.114898	1.13E-01	1.37E-01	1.06E-01	1.06E-01	1.15E-01
0.125	0.111536	0.105794	1.09E-01	1.31E-01	1.02E-01	9.64E-02	1.11E-01
0.11	0.074667	0.115359	7.23E-02	6.42E-02	6.53E-02	1.06E-01	7.34E-02
0.11	0.070638	0.092244	6.82E-02	6.22E-02	6.12E-02	8.28E-02	6.97E-02
0.109	0.066608	0.070975	6.42E-02	5.92E-02	5.72E-02	6.16E-02	6.59E-02
0.108	0.062578	0.051553	6.02E-02	5.51E-02	5.32E-02	4.22E-02	6.21E-02
0.107	0.058548	0.033978	5.61E-02	4.99E-02	4.92E-02	2.46E-02	5.84E-02
0.078	0.054518	0.018248	5.21E-02	4.37E-02	4.51E-02	8.85E-03	5.46E-02
0.445	0.35261	0.307072	3.50E-01	3.16E-01	3.49E-01	3.04E-01	3.52E-01
0.444	0.349042	0.310457	3.47E-01	3.14E-01	3.46E-01	3.07E-01	3.48E-01
0.441	0.345473	0.315689	3.43E-01	3.11E-01	3.42E-01	3.12E-01	3.44E-01
0.44	0.341905	0.322767	3.40E-01	3.07E-01	3.39E-01	3.20E-01	3.40E-01
0.44	0.338336	0.331692	3.36E-01	3.01E-01	3.35E-01	3.28E-01	3.37E-01
0.401	0.334768	0.342463	3.32E-01	2.95E-01	3.32E-01	3.39E-01	3.33E-01
0.399	0.32439	0.301027	3.22E-01	3.13E-01	3.21E-01	2.98E-01	3.23E-01
0.398	0.320764	0.3011	3.18E-01	3.11E-01	3.18E-01	2.98E-01	3.20E-01
0.395	0.317137	0.303019	3.15E-01	3.08E-01	3.14E-01	3.00E-01	3.16E-01
0.395	0.313511	0.306785	3.11E-01	3.03E-01	3.10E-01	3.04E-01	3.12E-01
0.393	0.309885	0.312397	3.07E-01	2.98E-01	3.07E-01	3.09E-01	3.08E-01
0.358	0.306259	0.319856	3.04E-01	2.92E-01	3.03E-01	3.17E-01	3.04E-01
0.341	0.296169	0.291726	2.94E-01	3.03E-01	2.93E-01	2.89E-01	2.95E-01
0.344	0.292486	0.288486	2.90E-01	3.01E-01	2.89E-01	2.85E-01	2.91E-01
0.339	0.288802	0.287093	2.86E-01	2.98E-01	2.86E-01	2.84E-01	2.87E-01
0.338	0.285118	0.287546	2.83E-01	2.94E-01	2.82E-01	2.84E-01	2.84E-01
0.337	0.281434	0.289846	2.79E-01	2.89E-01	2.78E-01	2.87E-01	2.80E-01
0.31	0.27775	0.293992	2.75E-01	2.83E-01	2.75E-01	2.91E-01	2.76E-01
0.239	0.239729	0.263355	2.37E-01	2.66E-01	2.37E-01	2.60E-01	2.38E-01
0.24	0.23593	0.25349	2.34E-01	2.64E-01	2.33E-01	2.50E-01	2.34E-01
0.238	0.23213	0.245472	2.30E-01	2.61E-01	2.29E-01	2.42E-01	2.31E-01
0.234	0.228331	0.2393	2.26E-01	2.57E-01	2.25E-01	2.36E-01	2.27E-01
0.231	0.224532	0.234974	2.22E-01	2.52E-01	2.21E-01	2.32E-01	2.23E-01
0.202	0.220733	0.232496	2.18E-01	2.45E-01	2.18E-01	2.29E-01	2.19E-01
0.157	0.183288	0.221959	1.81E-01	2.04E-01	1.80E-01	2.19E-01	1.81E-01
0.156	0.179373	0.205469	1.77E-01	2.02E-01	1.76E-01	2.02E-01	1.78E-01
0.157	0.175459	0.190826	1.73E-01	1.99E-01	1.72E-01	1.88E-01	1.74E-01
0.155	0.171544	0.178029	1.69E-01	1.94E-01	1.68E-01	1.75E-01	1.70E-01
0.156	0.16763	0.167078	1.65E-01	1.89E-01	1.64E-01	1.64E-01	1.66E-01
0.138	0.163715	0.157974	1.61E-01	1.83E-01	1.61E-01	1.55E-01	1.63E-01
0.121	0.126847	0.167539	1.24E-01	1.16E-01	1.24E-01	1.64E-01	1.25E-01
0.118	0.122817	0.144424	1.20E-01	1.14E-01	1.20E-01	1.41E-01	1.21E-01

0.117	0.118788	0.123155	1.16E-01	1.11E-01	1.16E-01	1.20E-01	1.17E-01
0.115	0.114758	0.103733	1.12E-01	1.07E-01	1.12E-01	1.01E-01	1.13E-01
0.116	0.110728	0.086157	1.08E-01	1.02E-01	1.08E-01	8.30E-02	1.10E-01
0.101	0.106698	0.070428	1.04E-01	9.58E-02	1.04E-01	6.72E-02	1.06E-01
0.189	0.233498	0.18796	2.40E-01	1.97E-01	2.43E-01	1.97E-01	2.33E-01
0.188	0.22993	0.191345	2.37E-01	1.95E-01	2.39E-01	2.01E-01	2.29E-01
0.188	0.226361	0.196577	2.33E-01	1.92E-01	2.36E-01	2.06E-01	2.26E-01
0.187	0.222793	0.203655	2.30E-01	1.87E-01	2.32E-01	2.13E-01	2.22E-01
0.186	0.219224	0.21258	2.26E-01	1.82E-01	2.29E-01	2.22E-01	2.18E-01
0.173	0.215656	0.223351	2.23E-01	1.76E-01	2.25E-01	2.33E-01	2.14E-01
0.16	0.205278	0.181915	2.12E-01	1.93E-01	2.15E-01	1.91E-01	2.05E-01
0.159	0.201652	0.181988	2.09E-01	1.92E-01	2.11E-01	1.91E-01	2.01E-01
0.158	0.198026	0.183907	2.05E-01	1.88E-01	2.07E-01	1.93E-01	1.97E-01
0.158	0.194399	0.187673	2.01E-01	1.84E-01	2.04E-01	1.97E-01	1.93E-01
0.157	0.190773	0.193285	1.98E-01	1.79E-01	2.00E-01	2.03E-01	1.90E-01
0.151	0.187147	0.200744	1.94E-01	1.73E-01	1.96E-01	2.10E-01	1.86E-01
0.137	0.177057	0.172614	1.84E-01	1.84E-01	1.86E-01	1.82E-01	1.76E-01
0.138	0.173374	0.169374	1.80E-01	1.82E-01	1.83E-01	1.79E-01	1.73E-01
0.137	0.16969	0.167981	1.77E-01	1.79E-01	1.79E-01	1.77E-01	1.69E-01
0.136	0.166006	0.168434	1.73E-01	1.75E-01	1.75E-01	1.78E-01	1.65E-01
0.137	0.162322	0.170734	1.69E-01	1.70E-01	1.72E-01	1.80E-01	1.61E-01
0.129	0.158638	0.17488	1.66E-01	1.64E-01	1.68E-01	1.84E-01	1.58E-01
0.11	0.120617	0.144243	1.28E-01	1.47E-01	1.30E-01	1.54E-01	1.20E-01
0.111	0.116818	0.134378	1.24E-01	1.45E-01	1.26E-01	1.44E-01	1.16E-01
0.109	0.113018	0.12636	1.20E-01	1.42E-01	1.22E-01	1.36E-01	1.12E-01
0.108	0.109219	0.120188	1.16E-01	1.38E-01	1.19E-01	1.29E-01	1.08E-01
0.105	0.10542	0.115862	1.12E-01	1.32E-01	1.15E-01	1.25E-01	1.05E-01
0.096	0.101621	0.113384	1.09E-01	1.26E-01	1.11E-01	1.23E-01	1.01E-01
0.091	0.064176	0.102848	7.11E-02	8.45E-02	7.35E-02	1.12E-01	6.30E-02
0.09	0.060261	0.086357	6.72E-02	8.25E-02	6.96E-02	9.57E-02	5.92E-02
0.09	0.056347	0.071714	6.33E-02	7.95E-02	6.57E-02	8.10E-02	5.54E-02
0.089	0.052432	0.058917	5.94E-02	7.54E-02	6.17E-02	6.82E-02	5.16E-02
0.087	0.048518	0.047966	5.54E-02	7.02E-02	5.78E-02	5.73E-02	4.79E-02
0.063	0.044603	0.038862	5.15E-02	6.39E-02	5.39E-02	4.82E-02	4.41E-02
0.061	0.007735	0.048427	1.47E-02	-2.73E-03	1.70E-02	5.77E-02	6.22E-03
0.06	0.003705	0.025312	1.06E-02	-4.70E-03	1.30E-02	3.46E-02	2.45E-03
0.062	-0.00032	0.004043	6.60E-03	-7.74E-03	8.98E-03	1.33E-02	-1.32E-03
0.059	-0.00435	-0.01538	2.57E-03	-1.18E-02	4.95E-03	-6.07E-03	-5.09E-03
0.058	-0.00838	-0.03295	-1.46E-03	-1.70E-02	9.20E-04	-2.36E-02	-8.86E-03
0.036	-0.01241	-0.04868	-5.49E-03	-2.33E-02	-3.11E-03	-3.94E-02	-1.26E-02
0.261	0.259588	0.21405	2.67E-01	2.23E-01	2.57E-01	2.12E-01	2.60E-01
0.261	0.25602	0.217435	2.63E-01	2.21E-01	2.54E-01	2.15E-01	2.56E-01
0.262	0.252451	0.222667	2.59E-01	2.18E-01	2.50E-01	2.20E-01	2.53E-01
0.26	0.248883	0.229745	2.56E-01	2.14E-01	2.47E-01	2.28E-01	2.49E-01
0.26	0.245314	0.23867	2.52E-01	2.08E-01	2.43E-01	2.36E-01	2.45E-01
0.241	0.241746	0.249441	2.49E-01	2.02E-01	2.40E-01	2.47E-01	2.41E-01
0.239	0.231368	0.208005	2.38E-01	2.20E-01	2.29E-01	2.06E-01	2.32E-01
0.238	0.227742	0.208078	2.35E-01	2.18E-01	2.26E-01	2.06E-01	2.28E-01

0.235	0.224115	0.209997	2.31E-01	2.15E-01	2.22E-01	2.08E-01	2.24E-01
0.233	0.220489	0.213763	2.27E-01	2.10E-01	2.18E-01	2.12E-01	2.21E-01
0.231	0.216863	0.219375	2.24E-01	2.05E-01	2.15E-01	2.17E-01	2.17E-01
0.216	0.213237	0.226834	2.20E-01	1.99E-01	2.11E-01	2.25E-01	2.13E-01
0.198	0.203147	0.198704	2.10E-01	2.10E-01	2.01E-01	1.97E-01	2.04E-01
0.199	0.199464	0.195464	2.06E-01	2.08E-01	1.97E-01	1.93E-01	2.00E-01
0.198	0.19578	0.194071	2.03E-01	2.05E-01	1.94E-01	1.92E-01	1.96E-01
0.195	0.192096	0.194524	1.99E-01	2.01E-01	1.90E-01	1.92E-01	1.92E-01
0.196	0.188412	0.196824	1.95E-01	1.96E-01	1.86E-01	1.95E-01	1.88E-01
0.173	0.184728	0.20097	1.92E-01	1.90E-01	1.83E-01	1.99E-01	1.85E-01
0.161	0.146707	0.170333	1.54E-01	1.73E-01	1.45E-01	1.68E-01	1.47E-01
0.16	0.142907	0.160468	1.50E-01	1.71E-01	1.41E-01	1.58E-01	1.43E-01
0.16	0.139108	0.15245	1.46E-01	1.68E-01	1.37E-01	1.50E-01	1.39E-01
0.159	0.135309	0.146278	1.42E-01	1.64E-01	1.33E-01	1.44E-01	1.35E-01
0.153	0.13151	0.141952	1.38E-01	1.59E-01	1.29E-01	1.40E-01	1.32E-01
0.141	0.127711	0.139473	1.35E-01	1.52E-01	1.26E-01	1.37E-01	1.28E-01
0.133	0.090266	0.128937	9.72E-02	1.11E-01	8.81E-02	1.27E-01	9.01E-02
0.132	0.086351	0.112447	9.33E-02	1.09E-01	8.42E-02	1.10E-01	8.63E-02
0.131	0.082437	0.097804	8.94E-02	1.06E-01	8.02E-02	9.56E-02	8.25E-02
0.132	0.078522	0.085007	8.54E-02	1.01E-01	7.63E-02	8.28E-02	7.87E-02
0.134	0.074608	0.074056	8.15E-02	9.63E-02	7.24E-02	7.19E-02	7.50E-02
0.107	0.070693	0.064952	7.76E-02	9.00E-02	6.85E-02	6.28E-02	7.12E-02
0.101	0.033825	0.074517	4.08E-02	2.34E-02	3.16E-02	7.23E-02	3.33E-02
0.099	0.029795	0.051402	3.67E-02	2.14E-02	2.76E-02	4.92E-02	2.96E-02
0.098	0.025765	0.030133	3.27E-02	1.84E-02	2.36E-02	2.79E-02	2.58E-02
0.1	0.021736	0.010711	2.87E-02	1.42E-02	1.95E-02	8.52E-03	2.20E-02
0.095	0.017706	-0.00686	2.46E-02	9.06E-03	1.55E-02	-9.06E-03	1.82E-02
0.074	0.013676	-0.02259	2.06E-02	2.81E-03	1.15E-02	-2.48E-02	1.45E-02
0.339	0.311768	0.26623	3.19E-01	2.75E-01	3.16E-01	2.70E-01	3.14E-01
0.338	0.308199	0.269615	3.15E-01	2.73E-01	3.12E-01	2.74E-01	3.11E-01
0.337	0.304631	0.274847	3.12E-01	2.70E-01	3.09E-01	2.79E-01	3.07E-01
0.338	0.301063	0.281925	3.08E-01	2.66E-01	3.05E-01	2.86E-01	3.03E-01
0.339	0.297494	0.29085	3.04E-01	2.61E-01	3.02E-01	2.95E-01	2.99E-01
0.318	0.293926	0.301621	3.01E-01	2.54E-01	2.98E-01	3.06E-01	2.96E-01
0.308	0.283548	0.260185	2.90E-01	2.72E-01	2.88E-01	2.64E-01	2.86E-01
0.308	0.279921	0.260257	2.87E-01	2.70E-01	2.84E-01	2.64E-01	2.82E-01
0.306	0.276295	0.262177	2.83E-01	2.67E-01	2.80E-01	2.66E-01	2.79E-01
0.307	0.272669	0.265942	2.80E-01	2.63E-01	2.77E-01	2.70E-01	2.75E-01
0.305	0.269043	0.271555	2.76E-01	2.57E-01	2.73E-01	2.76E-01	2.71E-01
0.286	0.265417	0.279014	2.72E-01	2.51E-01	2.69E-01	2.83E-01	2.67E-01
0.261	0.255327	0.250884	2.62E-01	2.62E-01	2.59E-01	2.55E-01	2.58E-01
0.26	0.251643	0.247644	2.59E-01	2.60E-01	2.56E-01	2.52E-01	2.54E-01
0.259	0.24796	0.246251	2.55E-01	2.57E-01	2.52E-01	2.50E-01	2.50E-01
0.258	0.244276	0.246704	2.51E-01	2.53E-01	2.48E-01	2.51E-01	2.46E-01
0.255	0.240592	0.249003	2.48E-01	2.48E-01	2.45E-01	2.53E-01	2.43E-01
0.215	0.236908	0.25315	2.44E-01	2.42E-01	2.41E-01	2.57E-01	2.39E-01
0.175	0.198886	0.222513	2.06E-01	2.25E-01	2.03E-01	2.27E-01	2.01E-01
0.174	0.195087	0.212648	2.02E-01	2.23E-01	1.99E-01	2.17E-01	1.97E-01

0.173	0.191288	0.20463	1.98E-01	2.20E-01	1.95E-01	2.09E-01	1.93E-01
0.172	0.187489	0.198458	1.94E-01	2.16E-01	1.91E-01	2.02E-01	1.90E-01
0.17	0.18369	0.194132	1.91E-01	2.11E-01	1.88E-01	1.98E-01	1.86E-01
0.151	0.179891	0.191653	1.87E-01	2.04E-01	1.84E-01	1.96E-01	1.82E-01
0.133	0.142446	0.181117	1.49E-01	1.63E-01	1.46E-01	1.85E-01	1.44E-01
0.136	0.138531	0.164627	1.45E-01	1.61E-01	1.43E-01	1.69E-01	1.40E-01
0.135	0.134617	0.149984	1.42E-01	1.58E-01	1.39E-01	1.54E-01	1.37E-01
0.137	0.130702	0.137187	1.38E-01	1.54E-01	1.35E-01	1.41E-01	1.33E-01
0.135	0.126788	0.126236	1.34E-01	1.48E-01	1.31E-01	1.30E-01	1.29E-01
0.118	0.122873	0.117132	1.30E-01	1.42E-01	1.27E-01	1.21E-01	1.25E-01
0.101	0.086005	0.126697	9.29E-02	7.55E-02	9.00E-02	1.31E-01	8.75E-02
0.1	0.081975	0.103582	8.89E-02	7.36E-02	8.60E-02	1.08E-01	8.38E-02
0.1	0.077945	0.082313	8.49E-02	7.05E-02	8.20E-02	8.63E-02	8.00E-02
0.102	0.073915	0.062891	8.08E-02	6.64E-02	7.79E-02	6.69E-02	7.62E-02
0.101	0.069886	0.045315	7.68E-02	6.12E-02	7.39E-02	4.93E-02	7.24E-02
0.068	0.065856	0.029586	7.28E-02	5.50E-02	6.99E-02	3.36E-02	6.87E-02
0.244	0.249381	0.203843	2.56E-01	2.12E-01	2.51E-01	2.06E-01	2.50E-01
0.243	0.245813	0.207228	2.53E-01	2.11E-01	2.48E-01	2.09E-01	2.46E-01
0.241	0.242244	0.21246	2.49E-01	2.07E-01	2.44E-01	2.15E-01	2.42E-01
0.24	0.238676	0.219538	2.46E-01	2.03E-01	2.41E-01	2.22E-01	2.38E-01
0.24	0.235107	0.228463	2.42E-01	1.98E-01	2.37E-01	2.31E-01	2.35E-01
0.231	0.231539	0.239234	2.38E-01	1.92E-01	2.34E-01	2.41E-01	2.31E-01
0.218	0.221161	0.197798	2.28E-01	2.09E-01	2.23E-01	2.00E-01	2.21E-01
0.217	0.217535	0.197871	2.24E-01	2.07E-01	2.20E-01	2.00E-01	2.18E-01
0.216	0.213908	0.19979	2.21E-01	2.04E-01	2.16E-01	2.02E-01	2.14E-01
0.215	0.210282	0.203556	2.17E-01	2.00E-01	2.12E-01	2.06E-01	2.10E-01
0.211	0.206656	0.209168	2.14E-01	1.95E-01	2.09E-01	2.11E-01	2.06E-01
0.196	0.20303	0.216627	2.10E-01	1.89E-01	2.05E-01	2.19E-01	2.03E-01
0.193	0.19294	0.188497	2.00E-01	2.00E-01	1.95E-01	1.91E-01	1.93E-01
0.194	0.189257	0.185257	1.96E-01	1.98E-01	1.91E-01	1.87E-01	1.89E-01
0.193	0.185573	0.183864	1.93E-01	1.95E-01	1.88E-01	1.86E-01	1.85E-01
0.19	0.181889	0.184317	1.89E-01	1.91E-01	1.84E-01	1.86E-01	1.82E-01
0.189	0.178205	0.186617	1.85E-01	1.86E-01	1.80E-01	1.89E-01	1.78E-01
0.175	0.174521	0.190763	1.81E-01	1.79E-01	1.77E-01	1.93E-01	1.74E-01
0.159	0.1365	0.160126	1.43E-01	1.63E-01	1.39E-01	1.62E-01	1.36E-01
0.158	0.132701	0.150261	1.40E-01	1.61E-01	1.35E-01	1.52E-01	1.33E-01
0.154	0.128901	0.142243	1.36E-01	1.58E-01	1.31E-01	1.44E-01	1.29E-01
0.153	0.125102	0.136071	1.32E-01	1.54E-01	1.27E-01	1.38E-01	1.25E-01
0.152	0.121303	0.131745	1.28E-01	1.48E-01	1.23E-01	1.34E-01	1.21E-01
0.142	0.117504	0.129267	1.24E-01	1.42E-01	1.20E-01	1.31E-01	1.17E-01
0.122	0.080059	0.11873	8.70E-02	1.00E-01	8.22E-02	1.21E-01	7.96E-02
0.121	0.076144	0.10224	8.31E-02	9.84E-02	7.83E-02	1.04E-01	7.58E-02
0.12	0.07223	0.087597	7.92E-02	9.54E-02	7.43E-02	8.97E-02	7.20E-02
0.119	0.068315	0.0748	7.52E-02	9.12E-02	7.04E-02	7.69E-02	6.82E-02
0.117	0.064401	0.063849	7.13E-02	8.61E-02	6.65E-02	6.60E-02	6.45E-02
0.092	0.060486	0.054745	6.74E-02	7.98E-02	6.26E-02	5.69E-02	6.07E-02
0.098	0.023618	0.06431	3.06E-02	1.31E-02	2.57E-02	6.64E-02	2.28E-02
0.095	0.019588	0.041195	2.65E-02	1.12E-02	2.17E-02	4.33E-02	1.91E-02

0.094	0.015559	0.019926	2.25E-02	8.15E-03	1.77E-02	2.20E-02	1.53E-02
0.093	0.011529	0.000504	1.85E-02	4.04E-03	1.36E-02	2.61E-03	1.15E-02
0.091	0.007499	-0.01707	1.44E-02	-1.14E-03	9.61E-03	-1.50E-02	7.75E-03
0.062	0.003469	-0.0328	1.04E-02	-7.40E-03	5.58E-03	-3.07E-02	3.97E-03
0.368	0.275471	0.229933	2.82E-01	2.39E-01	2.66E-01	2.21E-01	2.75E-01
0.365	0.271903	0.233318	2.79E-01	2.37E-01	2.63E-01	2.24E-01	2.72E-01
0.367	0.268334	0.23855	2.75E-01	2.34E-01	2.59E-01	2.29E-01	2.68E-01
0.365	0.264766	0.245628	2.72E-01	2.29E-01	2.55E-01	2.36E-01	2.64E-01
0.361	0.261197	0.254553	2.68E-01	2.24E-01	2.52E-01	2.45E-01	2.60E-01
0.332	0.257629	0.265324	2.65E-01	2.18E-01	2.48E-01	2.56E-01	2.57E-01
0.304	0.247251	0.223888	2.54E-01	2.35E-01	2.38E-01	2.15E-01	2.47E-01
0.303	0.243625	0.223961	2.51E-01	2.33E-01	2.34E-01	2.15E-01	2.43E-01
0.302	0.239998	0.22588	2.47E-01	2.30E-01	2.31E-01	2.16E-01	2.39E-01
0.3	0.236372	0.229646	2.43E-01	2.26E-01	2.27E-01	2.20E-01	2.36E-01
0.299	0.232746	0.235258	2.40E-01	2.21E-01	2.23E-01	2.26E-01	2.32E-01
0.278	0.22912	0.242717	2.36E-01	2.15E-01	2.20E-01	2.33E-01	2.28E-01
0.259	0.21903	0.214587	2.26E-01	2.26E-01	2.10E-01	2.05E-01	2.19E-01
0.253	0.215346	0.211347	2.22E-01	2.24E-01	2.06E-01	2.02E-01	2.15E-01
0.252	0.211663	0.209954	2.19E-01	2.21E-01	2.02E-01	2.01E-01	2.11E-01
0.25	0.207979	0.210407	2.15E-01	2.17E-01	1.99E-01	2.01E-01	2.07E-01
0.251	0.204295	0.212707	2.11E-01	2.12E-01	1.95E-01	2.03E-01	2.04E-01
0.231	0.200611	0.216853	2.08E-01	2.06E-01	1.91E-01	2.07E-01	2.00E-01
0.182	0.16259	0.186216	1.70E-01	1.89E-01	1.53E-01	1.77E-01	1.62E-01
0.18	0.15879	0.176351	1.66E-01	1.87E-01	1.49E-01	1.67E-01	1.58E-01
0.181	0.154991	0.168333	1.62E-01	1.84E-01	1.46E-01	1.59E-01	1.54E-01
0.179	0.151192	0.162161	1.58E-01	1.80E-01	1.42E-01	1.53E-01	1.51E-01
0.175	0.147393	0.157835	1.54E-01	1.74E-01	1.38E-01	1.48E-01	1.47E-01
0.16	0.143594	0.155356	1.51E-01	1.68E-01	1.34E-01	1.46E-01	1.43E-01
0.139	0.106149	0.14482	1.13E-01	1.26E-01	9.68E-02	1.35E-01	1.05E-01
0.138	0.102234	0.12833	1.09E-01	1.24E-01	9.28E-02	1.19E-01	1.01E-01
0.135	0.09832	0.113687	1.05E-01	1.21E-01	8.89E-02	1.04E-01	9.77E-02
0.135	0.094405	0.10089	1.01E-01	1.17E-01	8.50E-02	9.15E-02	9.39E-02
0.133	0.090491	0.089939	9.74E-02	1.12E-01	8.11E-02	8.06E-02	9.01E-02
0.117	0.086576	0.080835	9.35E-02	1.06E-01	7.72E-02	7.14E-02	8.64E-02
0.095	0.049708	0.0904	5.66E-02	3.92E-02	4.03E-02	8.10E-02	4.85E-02
0.095	0.045678	0.067285	5.26E-02	3.73E-02	3.63E-02	5.79E-02	4.47E-02
0.096	0.041648	0.046016	4.86E-02	3.42E-02	3.23E-02	3.66E-02	4.09E-02
0.097	0.037619	0.026594	4.46E-02	3.01E-02	2.82E-02	1.72E-02	3.72E-02
0.093	0.033589	0.009018	4.05E-02	2.49E-02	2.42E-02	-3.68E-04	3.34E-02
0.066	0.029559	-0.00671	3.65E-02	1.87E-02	2.02E-02	-1.61E-02	2.96E-02
0.439	0.327651	0.282113	3.35E-01	2.91E-01	3.24E-01	2.79E-01	3.27E-01
0.438	0.324082	0.285498	3.31E-01	2.89E-01	3.21E-01	2.82E-01	3.23E-01
0.437	0.320514	0.29073	3.27E-01	2.86E-01	3.17E-01	2.88E-01	3.19E-01
0.435	0.316946	0.297808	3.24E-01	2.82E-01	3.14E-01	2.95E-01	3.15E-01
0.431	0.313377	0.306733	3.20E-01	2.76E-01	3.10E-01	3.04E-01	3.12E-01
0.406	0.309809	0.317504	3.17E-01	2.70E-01	3.07E-01	3.14E-01	3.08E-01
0.384	0.29943	0.276068	3.06E-01	2.88E-01	2.96E-01	2.73E-01	2.98E-01
0.383	0.295804	0.27614	3.03E-01	2.86E-01	2.93E-01	2.73E-01	2.95E-01

0.382	0.292178	0.27806	2.99E-01	2.83E-01	2.89E-01	2.75E-01	2.91E-01
0.384	0.288552	0.281825	2.95E-01	2.79E-01	2.85E-01	2.79E-01	2.87E-01
0.385	0.284926	0.287438	2.92E-01	2.73E-01	2.82E-01	2.84E-01	2.83E-01
0.344	0.2813	0.294896	2.88E-01	2.67E-01	2.78E-01	2.92E-01	2.79E-01
0.303	0.27121	0.266767	2.78E-01	2.78E-01	2.68E-01	2.64E-01	2.70E-01
0.302	0.267526	0.263527	2.74E-01	2.76E-01	2.64E-01	2.60E-01	2.66E-01
0.301	0.263843	0.262133	2.71E-01	2.73E-01	2.61E-01	2.59E-01	2.62E-01
0.3	0.260159	0.262587	2.67E-01	2.69E-01	2.57E-01	2.59E-01	2.59E-01
0.299	0.256475	0.264886	2.63E-01	2.64E-01	2.53E-01	2.62E-01	2.55E-01
0.282	0.252791	0.269033	2.60E-01	2.58E-01	2.50E-01	2.66E-01	2.51E-01
0.199	0.214769	0.238396	2.22E-01	2.41E-01	2.12E-01	2.35E-01	2.13E-01
0.199	0.21097	0.228531	2.18E-01	2.39E-01	2.08E-01	2.25E-01	2.09E-01
0.201	0.207171	0.220512	2.14E-01	2.36E-01	2.04E-01	2.17E-01	2.06E-01
0.2	0.203372	0.214341	2.10E-01	2.32E-01	2.00E-01	2.11E-01	2.02E-01
0.199	0.199573	0.210015	2.07E-01	2.27E-01	1.96E-01	2.07E-01	1.98E-01
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0.148	0.158329	0.197	1.65E-01	1.79E-01	1.55E-01	1.94E-01	1.57E-01
0.148	0.154414	0.18051	1.61E-01	1.77E-01	1.51E-01	1.77E-01	1.53E-01
0.149	0.1505	0.165867	1.57E-01	1.74E-01	1.47E-01	1.63E-01	1.49E-01
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0.149	0.142671	0.142119	1.50E-01	1.64E-01	1.39E-01	1.39E-01	1.41E-01
0.136	0.138756	0.133015	1.46E-01	1.58E-01	1.36E-01	1.30E-01	1.38E-01
0.098	0.101888	0.14258	1.09E-01	9.14E-02	9.87E-02	1.39E-01	9.98E-02
0.099	0.097858	0.119465	1.05E-01	8.95E-02	9.47E-02	1.16E-01	9.60E-02
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0.066	0.081739	0.045469	8.87E-02	7.09E-02	7.85E-02	4.23E-02	8.09E-02
0.184	0.216859	0.17132	2.13E-01	1.80E-01	2.26E-01	1.81E-01	2.17E-01
0.183	0.21329	0.174706	2.09E-01	1.78E-01	2.23E-01	1.84E-01	2.13E-01
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0.18	0.206153	0.187016	2.02E-01	1.71E-01	2.15E-01	1.96E-01	2.05E-01
0.179	0.202585	0.195941	1.98E-01	1.66E-01	2.12E-01	2.05E-01	2.01E-01
0.162	0.199016	0.206712	1.95E-01	1.59E-01	2.08E-01	2.16E-01	1.98E-01
0.157	0.188638	0.165275	1.84E-01	1.77E-01	1.98E-01	1.75E-01	1.88E-01
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0.15	0.174134	0.176645	1.70E-01	1.63E-01	1.83E-01	1.86E-01	1.73E-01
0.147	0.170508	0.184104	1.66E-01	1.56E-01	1.80E-01	1.93E-01	1.69E-01
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0.007	-0.02905	-0.06532	-3.33E-02	-3.99E-02	-1.97E-02	-5.60E-02	-2.93E-02
0.255	0.242949	0.19741	2.39E-01	2.06E-01	2.41E-01	1.95E-01	2.44E-01
0.256	0.23938	0.200796	2.35E-01	2.04E-01	2.37E-01	1.99E-01	2.40E-01
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0.254	0.232243	0.213106	2.28E-01	1.97E-01	2.30E-01	2.11E-01	2.32E-01
0.251	0.228675	0.22203	2.24E-01	1.92E-01	2.26E-01	2.20E-01	2.29E-01
0.236	0.225106	0.232802	2.21E-01	1.86E-01	2.23E-01	2.31E-01	2.25E-01
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0.198	0.196598	0.210194	1.92E-01	1.82E-01	1.94E-01	2.08E-01	1.96E-01
0.184	0.186508	0.182064	1.82E-01	1.94E-01	1.84E-01	1.80E-01	1.87E-01
0.181	0.182824	0.178824	1.79E-01	1.92E-01	1.81E-01	1.77E-01	1.83E-01
0.18	0.17914	0.177431	1.75E-01	1.89E-01	1.77E-01	1.75E-01	1.79E-01
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0.175	0.171773	0.180184	1.68E-01	1.79E-01	1.70E-01	1.78E-01	1.72E-01
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0.144	0.122469	0.13581	1.18E-01	1.51E-01	1.20E-01	1.34E-01	1.23E-01
0.143	0.11867	0.129638	1.14E-01	1.47E-01	1.16E-01	1.27E-01	1.19E-01
0.141	0.114871	0.125313	1.11E-01	1.42E-01	1.13E-01	1.23E-01	1.15E-01
0.132	0.111071	0.122834	1.07E-01	1.36E-01	1.09E-01	1.21E-01	1.11E-01
0.116	0.073626	0.112298	6.94E-02	9.39E-02	7.14E-02	1.10E-01	7.34E-02
0.115	0.069712	0.095808	6.55E-02	9.20E-02	6.75E-02	9.36E-02	6.96E-02
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0.071	0.017186	0.057878	1.30E-02	6.72E-03	1.50E-02	5.57E-02	1.67E-02
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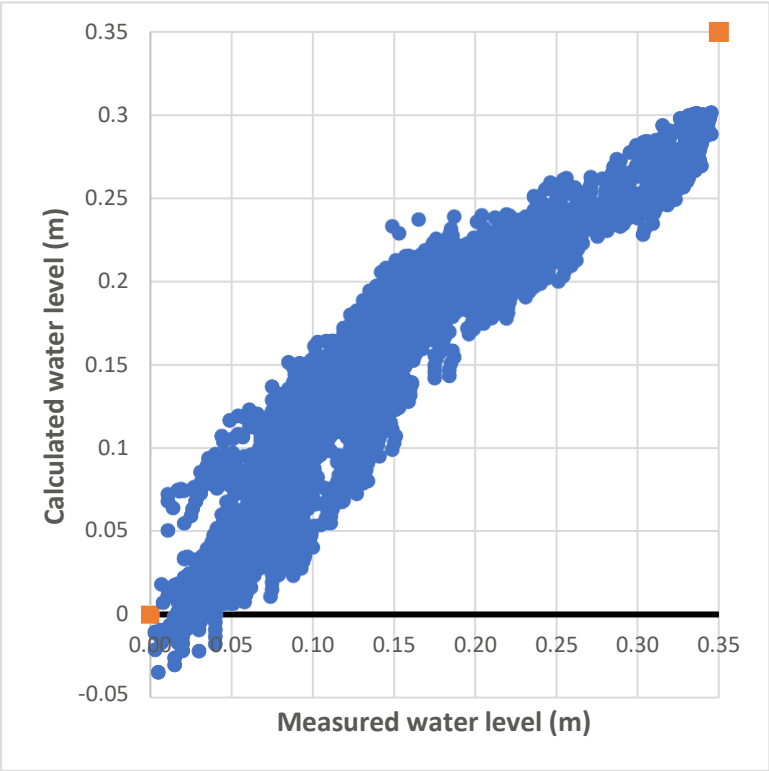
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0.299	0.266908	0.243545	2.63E-01	2.55E-01	2.71E-01	2.48E-01	2.69E-01
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0.231	0.218468	0.211824	2.14E-01	1.82E-01	2.21E-01	2.14E-01	2.18E-01
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0.136	0.11986	0.143487	1.16E-01	1.46E-01	1.22E-01	1.46E-01	1.20E-01
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0.13	0.104664	0.115106	1.00E-01	1.32E-01	1.07E-01	1.17E-01	1.05E-01
0.114	0.100864	0.112627	9.67E-02	1.25E-01	1.03E-01	1.15E-01	1.01E-01
0.103	0.063419	0.102091	5.92E-02	8.37E-02	6.55E-02	1.04E-01	6.29E-02
0.101	0.059505	0.085601	5.53E-02	8.18E-02	6.16E-02	8.77E-02	5.91E-02
0.1	0.05559	0.070957	5.14E-02	7.87E-02	5.77E-02	7.31E-02	5.54E-02
0.095	0.051676	0.05816	4.75E-02	7.46E-02	5.38E-02	6.03E-02	5.16E-02
0.091	0.047761	0.04721	4.36E-02	6.94E-02	4.99E-02	4.93E-02	4.78E-02
0.077	0.043847	0.038106	3.96E-02	6.32E-02	4.60E-02	4.02E-02	4.41E-02
0.061	0.006979	0.047671	2.78E-03	-3.49E-03	9.09E-03	4.98E-02	6.19E-03
0.062	0.002949	0.024555	-1.25E-03	-5.45E-03	5.06E-03	2.67E-02	2.42E-03
0.059	-0.00108	0.003287	-5.28E-03	-8.49E-03	1.03E-03	5.40E-03	-1.35E-03
0.055	-0.00511	-0.01614	-9.31E-03	-1.26E-02	-3.00E-03	-1.40E-02	-5.12E-03
0.049	-0.00914	-0.03371	-1.33E-02	-1.78E-02	-7.03E-03	-3.16E-02	-8.89E-03
0.028	-0.01317	-0.04944	-1.74E-02	-2.40E-02	-1.11E-02	-4.73E-02	-1.27E-02
0.354	0.258831	0.213293	2.55E-01	2.22E-01	2.49E-01	2.04E-01	2.59E-01
0.354	0.255263	0.216678	2.51E-01	2.20E-01	2.46E-01	2.07E-01	2.55E-01
0.352	0.251695	0.22191	2.47E-01	2.17E-01	2.42E-01	2.13E-01	2.51E-01
0.351	0.248126	0.228989	2.44E-01	2.13E-01	2.39E-01	2.20E-01	2.47E-01
0.348	0.244558	0.237913	2.40E-01	2.08E-01	2.35E-01	2.29E-01	2.44E-01
0.321	0.240989	0.248685	2.37E-01	2.01E-01	2.32E-01	2.39E-01	2.40E-01
0.288	0.230611	0.207248	2.26E-01	2.19E-01	2.21E-01	1.98E-01	2.30E-01
0.287	0.226985	0.207321	2.23E-01	2.17E-01	2.18E-01	1.98E-01	2.27E-01
0.286	0.223359	0.20924	2.19E-01	2.14E-01	2.14E-01	2.00E-01	2.23E-01
0.281	0.219733	0.213006	2.16E-01	2.10E-01	2.10E-01	2.04E-01	2.19E-01
0.278	0.216107	0.218618	2.12E-01	2.05E-01	2.07E-01	2.09E-01	2.15E-01
0.257	0.212481	0.226077	2.08E-01	1.98E-01	2.03E-01	2.17E-01	2.12E-01
0.232	0.202391	0.197947	1.98E-01	2.09E-01	1.93E-01	1.89E-01	2.02E-01
0.231	0.198707	0.194707	1.95E-01	2.08E-01	1.89E-01	1.85E-01	1.98E-01
0.229	0.195023	0.193314	1.91E-01	2.04E-01	1.86E-01	1.84E-01	1.94E-01
0.228	0.191339	0.193767	1.87E-01	2.00E-01	1.82E-01	1.84E-01	1.91E-01
0.227	0.187656	0.196067	1.83E-01	1.95E-01	1.78E-01	1.87E-01	1.87E-01
0.198	0.183972	0.200213	1.80E-01	1.89E-01	1.75E-01	1.91E-01	1.83E-01
0.168	0.14595	0.169577	1.42E-01	1.72E-01	1.37E-01	1.60E-01	1.45E-01
0.165	0.142151	0.159712	1.38E-01	1.70E-01	1.33E-01	1.50E-01	1.42E-01

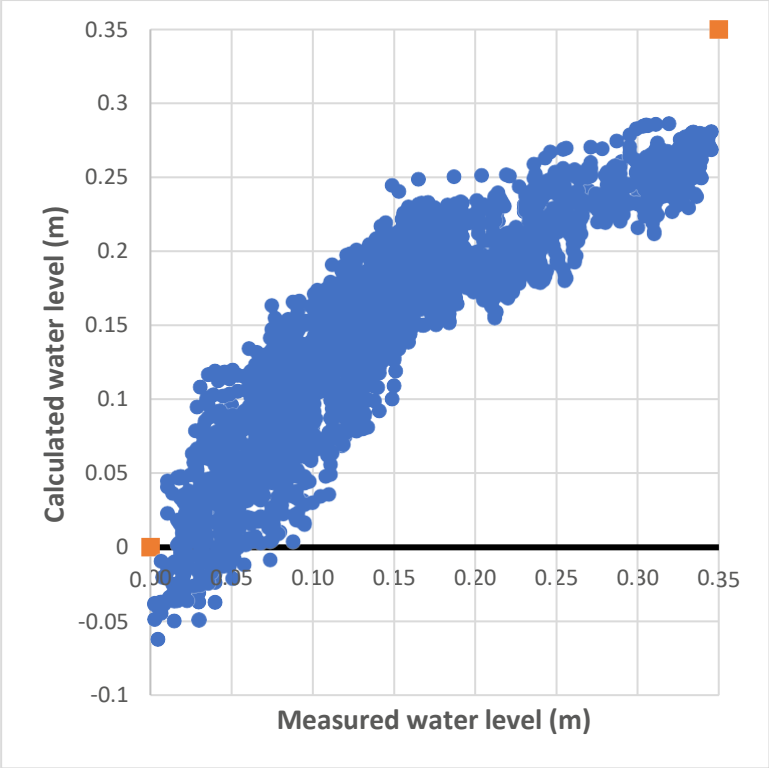
0.161	0.138352	0.151693	1.34E-01	1.67E-01	1.29E-01	1.42E-01	1.38E-01
0.159	0.134553	0.145521	1.30E-01	1.63E-01	1.25E-01	1.36E-01	1.34E-01
0.155	0.130754	0.141196	1.27E-01	1.58E-01	1.21E-01	1.32E-01	1.30E-01
0.134	0.126954	0.138717	1.23E-01	1.52E-01	1.18E-01	1.29E-01	1.26E-01
0.11	0.089509	0.128181	8.53E-02	1.10E-01	8.01E-02	1.19E-01	8.86E-02
0.111	0.085595	0.111691	8.14E-02	1.08E-01	7.62E-02	1.02E-01	8.48E-02
0.108	0.08168	0.097047	7.75E-02	1.05E-01	7.23E-02	8.77E-02	8.10E-02
0.107	0.077766	0.08425	7.36E-02	1.01E-01	6.84E-02	7.49E-02	7.73E-02
0.106	0.073851	0.0733	6.96E-02	9.55E-02	6.45E-02	6.39E-02	7.35E-02
0.087	0.069937	0.064196	6.57E-02	8.93E-02	6.06E-02	5.48E-02	6.97E-02
0.064	0.033069	0.07376	2.89E-02	2.26E-02	2.37E-02	6.44E-02	3.18E-02
0.063	0.029039	0.050645	2.48E-02	2.06E-02	1.97E-02	4.13E-02	2.81E-02
0.059	0.025009	0.029377	2.08E-02	1.76E-02	1.56E-02	2.00E-02	2.43E-02
0.06	0.020979	0.009954	1.68E-02	1.35E-02	1.16E-02	5.73E-04	2.05E-02
0.054	0.016949	-0.00762	1.27E-02	8.31E-03	7.57E-03	-1.70E-02	1.68E-02
0.031	0.012919	-0.02335	8.72E-03	2.05E-03	3.54E-03	-3.27E-02	1.30E-02
0.441	0.311011	0.265473	3.07E-01	2.74E-01	3.08E-01	2.62E-01	3.10E-01
0.44	0.307443	0.268858	3.03E-01	2.72E-01	3.04E-01	2.66E-01	3.06E-01
0.439	0.303874	0.27409	3.00E-01	2.69E-01	3.01E-01	2.71E-01	3.03E-01
0.435	0.300306	0.281168	2.96E-01	2.65E-01	2.97E-01	2.78E-01	2.99E-01
0.431	0.296738	0.290093	2.93E-01	2.60E-01	2.94E-01	2.87E-01	2.95E-01
0.412	0.293169	0.300865	2.89E-01	2.54E-01	2.90E-01	2.98E-01	2.91E-01
0.375	0.282791	0.259428	2.79E-01	2.71E-01	2.80E-01	2.56E-01	2.82E-01
0.376	0.279165	0.259501	2.75E-01	2.69E-01	2.76E-01	2.56E-01	2.78E-01
0.375	0.275539	0.26142	2.71E-01	2.66E-01	2.72E-01	2.58E-01	2.74E-01
0.369	0.271913	0.265186	2.68E-01	2.62E-01	2.69E-01	2.62E-01	2.70E-01
0.365	0.268287	0.270798	2.64E-01	2.57E-01	2.65E-01	2.68E-01	2.67E-01
0.329	0.26466	0.278257	2.60E-01	2.50E-01	2.61E-01	2.75E-01	2.63E-01
0.286	0.254571	0.250127	2.50E-01	2.62E-01	2.51E-01	2.47E-01	2.53E-01
0.284	0.250887	0.246887	2.47E-01	2.60E-01	2.48E-01	2.44E-01	2.50E-01
0.281	0.247203	0.245494	2.43E-01	2.57E-01	2.44E-01	2.42E-01	2.46E-01
0.28	0.243519	0.245947	2.39E-01	2.53E-01	2.40E-01	2.43E-01	2.42E-01
0.274	0.239836	0.248247	2.36E-01	2.47E-01	2.37E-01	2.45E-01	2.38E-01
0.243	0.236152	0.252393	2.32E-01	2.41E-01	2.33E-01	2.49E-01	2.34E-01
0.191	0.19813	0.221756	1.94E-01	2.24E-01	1.95E-01	2.19E-01	1.97E-01
0.192	0.194331	0.211891	1.90E-01	2.22E-01	1.91E-01	2.09E-01	1.93E-01
0.193	0.190532	0.203873	1.86E-01	2.19E-01	1.87E-01	2.01E-01	1.89E-01
0.19	0.186733	0.197701	1.83E-01	2.15E-01	1.84E-01	1.95E-01	1.85E-01
0.189	0.182933	0.193376	1.79E-01	2.10E-01	1.80E-01	1.90E-01	1.82E-01
0.153	0.179134	0.190897	1.75E-01	2.04E-01	1.76E-01	1.88E-01	1.78E-01
0.139	0.141689	0.180361	1.37E-01	1.62E-01	1.39E-01	1.77E-01	1.40E-01
0.14	0.137775	0.163871	1.34E-01	1.60E-01	1.35E-01	1.61E-01	1.36E-01
0.142	0.13386	0.149227	1.30E-01	1.57E-01	1.31E-01	1.46E-01	1.32E-01
0.141	0.129946	0.13643	1.26E-01	1.53E-01	1.27E-01	1.33E-01	1.29E-01
0.135	0.126031	0.12548	1.22E-01	1.48E-01	1.23E-01	1.22E-01	1.25E-01
0.124	0.122117	0.116376	1.18E-01	1.41E-01	1.19E-01	1.13E-01	1.21E-01
0.078	0.085249	0.12594	8.10E-02	7.48E-02	8.21E-02	1.23E-01	8.31E-02
0.074	0.081219	0.102825	7.70E-02	7.28E-02	7.80E-02	9.96E-02	7.94E-02

0.076	0.077189	0.081556	7.30E-02	6.98E-02	7.40E-02	7.84E-02	7.56E-02
0.069	0.073159	0.062134	6.90E-02	6.57E-02	7.00E-02	5.89E-02	7.18E-02
0.068	0.069129	0.044559	6.49E-02	6.05E-02	6.59E-02	4.14E-02	6.81E-02
0.041	0.065099	0.02883	6.09E-02	5.42E-02	6.19E-02	2.56E-02	6.43E-02

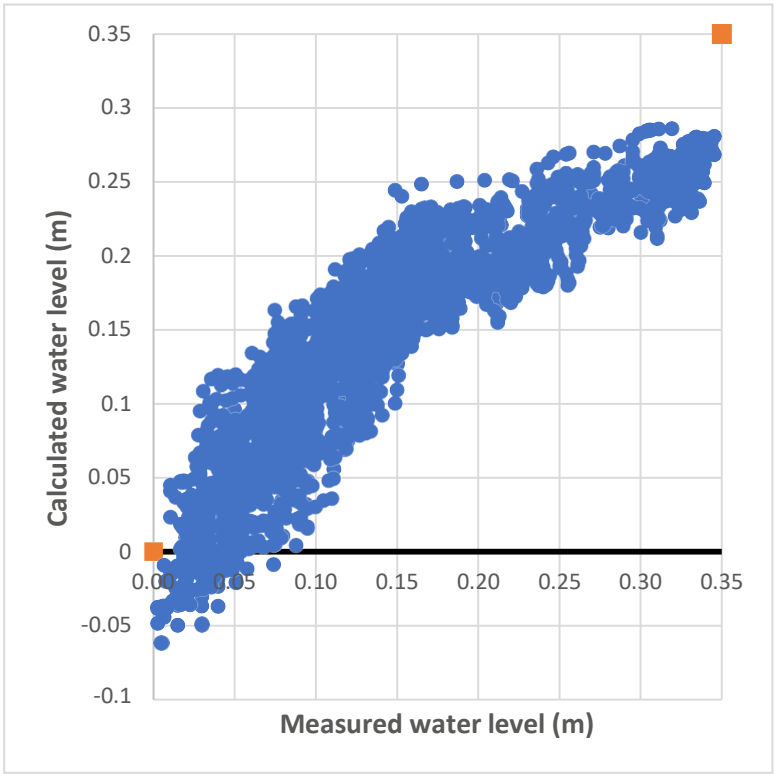
Appendix IV



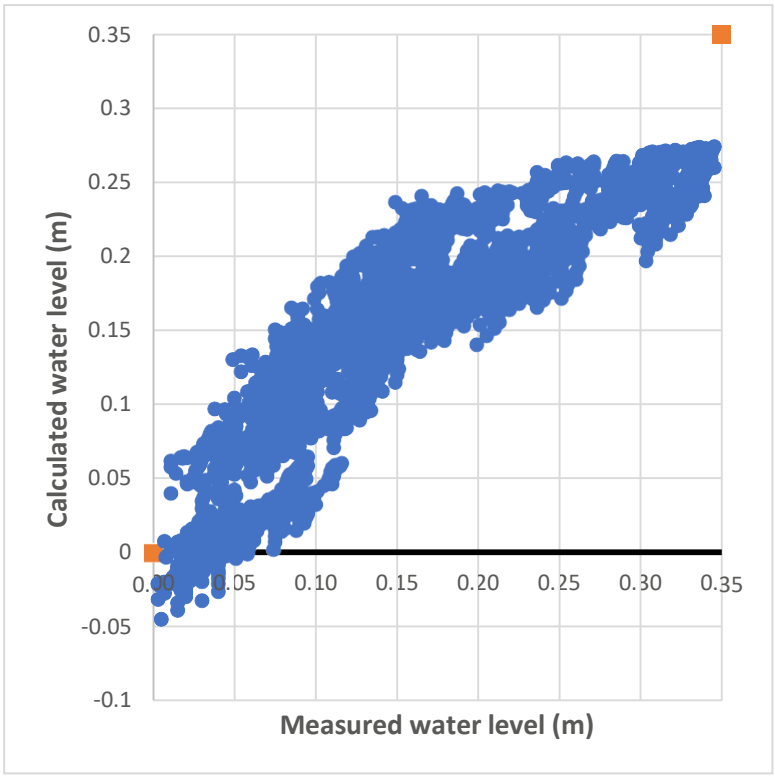
Measured water level vs calculated water level light rain test results for Model1



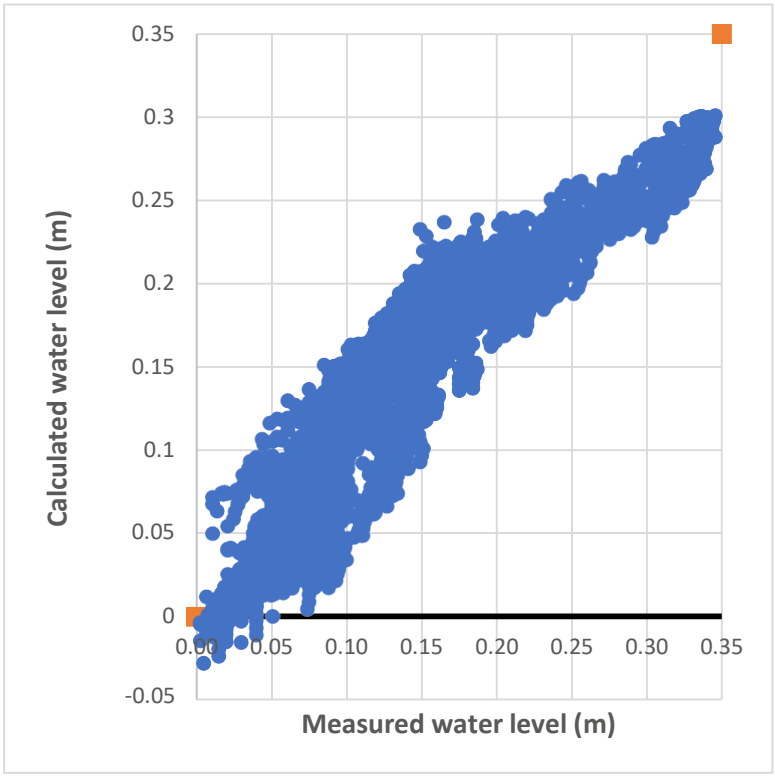
Measured water level vs calculated water level light rain test results for Model2



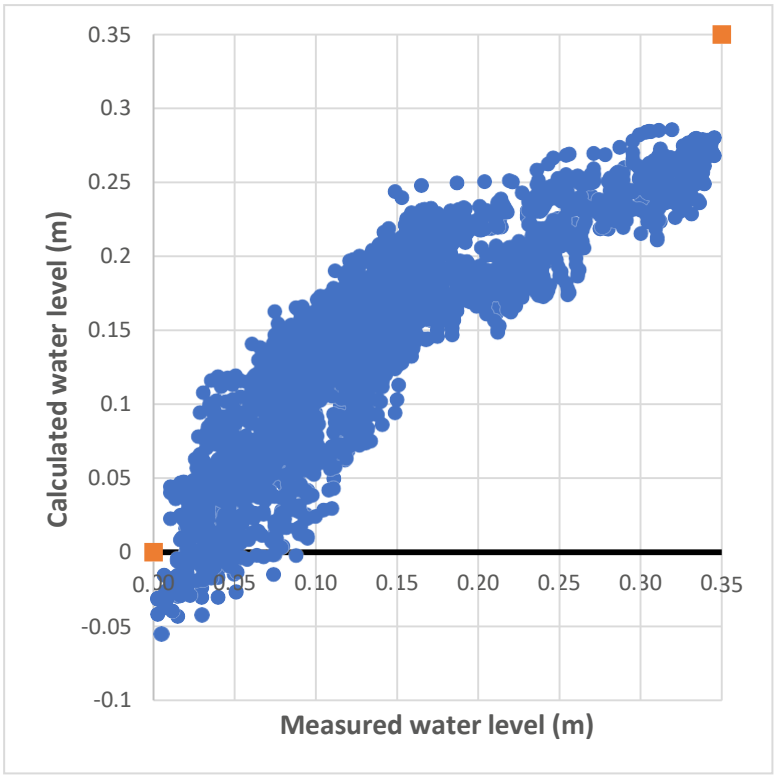
Measured water level vs calculated water level light rain test results for Model3



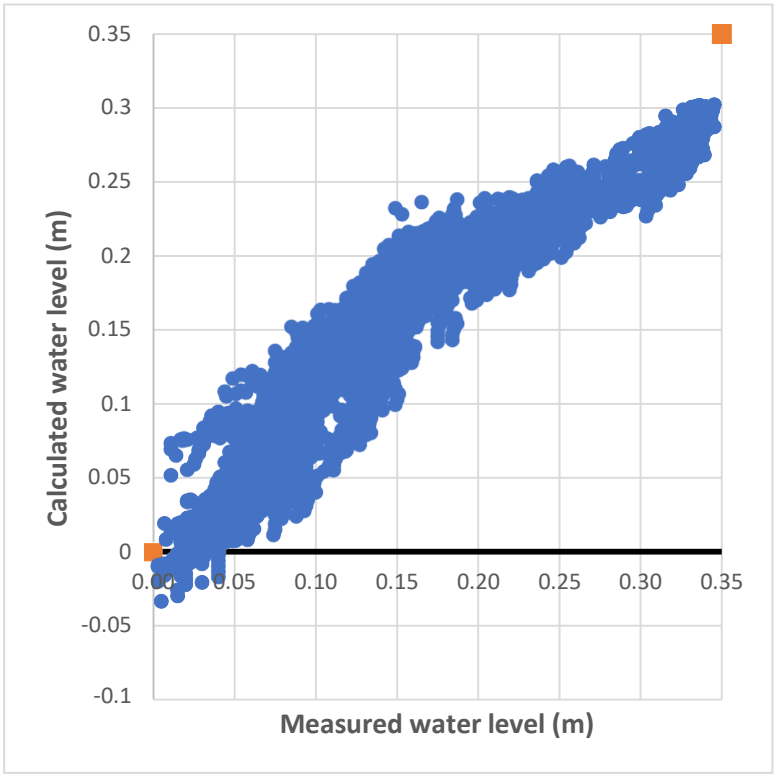
Measured water level vs calculated water level light rain test results for Model4



Measured water level vs calculated water level light rain test results for Model5



Measured water level vs calculated water level light rain test results for Model6



Measured water level vs calculated water level light rain test results for Model7

Light rain (33mm/hr)

	Model number						
	1	2	3	4	5	6	7
y	Negative predictions						
	49	88	53	92	30	93	51
Measure water level (m)							
0.15	0.190741	0.158064	0.188344	0.163875	0.197371	0.164694	0.191911
0.15	0.187505	0.15974	0.185109	0.161952	0.194136	0.16637	0.188208
0.15	0.18427	0.16233	0.181874	0.158979	0.1909	0.16896	0.184504
0.15	0.181034	0.165834	0.178638	0.154956	0.187665	0.172464	0.1808
0.14	0.177799	0.170252	0.175403	0.149884	0.184429	0.176882	0.177096
0.13	0.174563	0.175584	0.172167	0.143763	0.181194	0.182215	0.173393
0.14	0.169231	0.153644	0.166835	0.161427	0.175862	0.160275	0.170068
0.14	0.165862	0.153092	0.163466	0.159504	0.172493	0.159722	0.166364
0.14	0.162493	0.153453	0.160097	0.15653	0.169123	0.160084	0.16266
0.13	0.159124	0.154729	0.156727	0.152508	0.165754	0.161359	0.158956
0.13	0.155754	0.156919	0.153358	0.147436	0.162385	0.163549	0.155253
0.12	0.152385	0.160022	0.149989	0.141315	0.159016	0.166653	0.151549
0.12	0.147722	0.146329	0.145326	0.154083	0.154353	0.152959	0.148224
0.12	0.144219	0.143548	0.141823	0.152159	0.15085	0.150178	0.14452
0.12	0.140716	0.141681	0.13832	0.149186	0.147347	0.148311	0.140816
0.12	0.137213	0.140728	0.134817	0.145164	0.143844	0.147359	0.137113
0.12	0.13371	0.140689	0.131314	0.140092	0.140341	0.14732	0.133409
0.11	0.130207	0.141565	0.127811	0.133971	0.136837	0.148195	0.129705
0.09	0.104704	0.123009	0.102307	0.124706	0.111334	0.12964	0.104536
0.09	0.100933	0.115771	0.098537	0.122783	0.107564	0.122402	0.100833
0.09	0.097162	0.109448	0.094766	0.11981	0.103793	0.116078	0.097129
0.08	0.093392	0.104038	0.090996	0.115787	0.100022	0.110668	0.093425
0.08	0.089621	0.099542	0.087225	0.110715	0.096252	0.106173	0.089722
0.05	0.085851	0.09596	0.083454	0.104594	0.092481	0.102591	0.086018
0.07	0.061685	0.088105	0.059289	0.075745	0.068316	0.094736	0.060849
0.07	0.057647	0.07641	0.055251	0.073821	0.064277	0.083041	0.057145
0.07	0.053609	0.06563	0.051213	0.070848	0.060239	0.07226	0.053442
0.07	0.049571	0.055763	0.047174	0.066826	0.056201	0.062393	0.049738
0.07	0.045532	0.04681	0.043136	0.061754	0.052163	0.053441	0.046034
0.04	0.041494	0.038772	0.039098	0.055633	0.048125	0.045402	0.04233
0.05	0.018667	0.041617	0.01627	0.0072	0.025297	0.048247	0.017162
0.04	0.014361	0.025465	0.011965	0.005276	0.020991	0.032095	0.013458
0.04	0.010055	0.010227	0.007659	0.002303	0.016686	0.016857	0.009754
0.04	0.005749	-0.0041	0.003353	-0.00172	0.01238	0.002534	0.00605

0.04	0.001444	-0.01751	-0.00095	-0.00679	0.008074	-0.01088	0.002347
0.03	-0.00286	-0.03	-0.00526	-0.01291	0.003768	-0.02337	-0.00136
0.21	0.219065	0.186388	0.216668	0.192199	0.212939	0.180262	0.220235
0.21	0.215829	0.188064	0.213433	0.190275	0.209703	0.181937	0.216531
0.21	0.212594	0.190653	0.210197	0.187302	0.206468	0.184527	0.212828
0.2	0.209358	0.194158	0.206962	0.18328	0.203232	0.188031	0.209124
0.2	0.206123	0.198576	0.203726	0.178208	0.199997	0.19245	0.20542
0.18	0.202887	0.203908	0.200491	0.172087	0.196761	0.197782	0.201717
0.18	0.197555	0.181968	0.195159	0.189751	0.191429	0.175842	0.198391
0.18	0.194186	0.181416	0.19179	0.187827	0.18806	0.17529	0.194688
0.18	0.190817	0.181777	0.18842	0.184854	0.184691	0.175651	0.190984
0.18	0.187447	0.183053	0.185051	0.180832	0.181321	0.176927	0.18728
0.17	0.184078	0.185242	0.181682	0.17576	0.177952	0.179116	0.183577
0.16	0.180709	0.188346	0.178313	0.169639	0.174583	0.18222	0.179873
0.15	0.176046	0.174653	0.17365	0.182407	0.16992	0.168527	0.176548
0.16	0.172543	0.171872	0.170147	0.180483	0.166417	0.165746	0.172844
0.15	0.16904	0.170005	0.166644	0.17751	0.162914	0.163879	0.16914
0.15	0.165537	0.169052	0.163141	0.173488	0.159411	0.162926	0.165437
0.14	0.162034	0.169013	0.159638	0.168416	0.155908	0.162887	0.161733
0.14	0.158531	0.169888	0.156135	0.162295	0.152405	0.163762	0.158029
0.14	0.133027	0.151333	0.130631	0.15303	0.126901	0.145207	0.13286
0.14	0.129257	0.144095	0.126861	0.151106	0.123131	0.137969	0.129157
0.14	0.125486	0.137771	0.12309	0.148133	0.11936	0.131645	0.125453
0.13	0.121716	0.132362	0.119319	0.144111	0.11559	0.126236	0.121749
0.13	0.117945	0.127866	0.115549	0.139039	0.111819	0.12174	0.118045
0.1	0.114174	0.124284	0.111778	0.132918	0.108048	0.118158	0.114342
0.12	0.090009	0.116429	0.087613	0.104069	0.083883	0.110303	0.089173
0.12	0.085971	0.104734	0.083575	0.102145	0.079845	0.098608	0.085469
0.12	0.081933	0.093953	0.079536	0.099172	0.075807	0.087827	0.081765
0.12	0.077894	0.084087	0.075498	0.09515	0.071768	0.077961	0.078062
0.12	0.073856	0.075134	0.07146	0.090078	0.06773	0.069008	0.074358
0.07	0.069818	0.067096	0.067422	0.083957	0.063692	0.06097	0.070654
0.09	0.04699	0.06994	0.044594	0.035523	0.040864	0.063814	0.045485
0.09	0.042685	0.053788	0.040288	0.0336	0.036559	0.047662	0.041782
0.09	0.038379	0.038551	0.035983	0.030627	0.032253	0.032425	0.038078
0.08	0.034073	0.024227	0.031677	0.026604	0.027947	0.018101	0.034374
0.08	0.029767	0.010818	0.027371	0.021532	0.023641	0.004692	0.030671
0.05	0.025462	-0.00168	0.023066	0.015411	0.019336	-0.0078	0.026967
0.31	0.275712	0.243035	0.273316	0.248847	0.275208	0.242531	0.276883
0.31	0.272477	0.244711	0.27008	0.246923	0.271972	0.244207	0.273179
0.3	0.269241	0.247301	0.266845	0.24395	0.268737	0.246797	0.269475
0.3	0.266006	0.250805	0.263609	0.239928	0.265501	0.250301	0.265772
0.3	0.26277	0.255223	0.260374	0.234856	0.262266	0.254719	0.262068
0.29	0.259535	0.260556	0.257138	0.228735	0.25903	0.260051	0.258364
0.28	0.254203	0.238616	0.251807	0.246399	0.253698	0.238111	0.255039
0.28	0.250834	0.238063	0.248437	0.244475	0.250329	0.237559	0.251335
0.28	0.247464	0.238425	0.245068	0.241502	0.24696	0.23792	0.247632

0.27	0.244095	0.2397	0.241699	0.237479	0.243591	0.239196	0.243928
0.27	0.240726	0.24189	0.23833	0.232408	0.240221	0.241386	0.240224
0.25	0.237357	0.244994	0.23496	0.226287	0.236852	0.244489	0.23652
0.23	0.232694	0.2313	0.230297	0.239055	0.232189	0.230796	0.233195
0.23	0.229191	0.228519	0.226794	0.237131	0.228686	0.228015	0.229492
0.23	0.225688	0.226652	0.223291	0.234158	0.225183	0.226148	0.225788
0.21	0.222185	0.225699	0.219788	0.230135	0.22168	0.225195	0.222084
0.21	0.218681	0.225661	0.216285	0.225064	0.218177	0.225156	0.21838
0.19	0.215178	0.226536	0.212782	0.218943	0.214674	0.226032	0.214677
0.158	0.189675	0.207981	0.187279	0.209678	0.189171	0.207476	0.189508
0.159	0.185905	0.200743	0.183508	0.207754	0.1854	0.200238	0.185804
0.151	0.182134	0.194419	0.179738	0.204781	0.181629	0.193915	0.1821
0.148	0.178363	0.189009	0.175967	0.200759	0.177859	0.188505	0.178397
0.142	0.174593	0.184514	0.172196	0.195687	0.174088	0.184009	0.174693
0.141	0.170822	0.180932	0.168426	0.189566	0.170318	0.180427	0.170989
0.12	0.146657	0.173077	0.14426	0.160717	0.146152	0.172572	0.14582
0.12	0.142618	0.161382	0.140222	0.158793	0.142114	0.160877	0.142117
0.12	0.13858	0.150601	0.136184	0.15582	0.138076	0.150097	0.138413
0.12	0.134542	0.140734	0.132146	0.151797	0.134038	0.14023	0.134709
0.11	0.130504	0.131782	0.128108	0.146726	0.129999	0.131277	0.131006
0.1	0.126466	0.123743	0.124069	0.140605	0.125961	0.123239	0.127302
0.1	0.103638	0.126588	0.101242	0.092171	0.103134	0.126083	0.102133
0.1	0.099332	0.110436	0.096936	0.090247	0.098828	0.109932	0.098429
0.1	0.095027	0.095198	0.09263	0.087274	0.094522	0.094694	0.094726
0.1	0.090721	0.080875	0.088325	0.083252	0.090216	0.08037	0.091022
0.09	0.086415	0.067465	0.084019	0.07818	0.085911	0.066961	0.087318
0.08	0.082109	0.05497	0.079713	0.072059	0.081605	0.054465	0.083614
0.15	0.184414	0.151737	0.187006	0.157548	0.191044	0.158367	0.185584
0.15	0.181178	0.153413	0.183771	0.155625	0.187809	0.160043	0.181881
0.14	0.177943	0.156003	0.180535	0.152652	0.184573	0.162633	0.178177
0.14	0.174707	0.159507	0.1773	0.148629	0.181338	0.166137	0.174473
0.14	0.171472	0.163925	0.174064	0.143558	0.178102	0.170555	0.17077
0.13	0.168236	0.169257	0.170829	0.137436	0.174867	0.175888	0.167066
0.14	0.162905	0.147318	0.165497	0.1551	0.169535	0.153948	0.163741
0.14	0.159535	0.146765	0.162128	0.153177	0.166166	0.153395	0.160037
0.13	0.156166	0.147126	0.158758	0.150204	0.162797	0.153757	0.156333
0.13	0.152797	0.148402	0.155389	0.146181	0.159427	0.155033	0.15263
0.13	0.149428	0.150592	0.15202	0.141109	0.156058	0.157222	0.148926
0.12	0.146058	0.153696	0.148651	0.134988	0.152689	0.160326	0.145222
0.12	0.141395	0.140002	0.143988	0.147756	0.148026	0.146633	0.141897
0.12	0.137892	0.137221	0.140485	0.145832	0.144523	0.143851	0.138193
0.11	0.134389	0.135354	0.136982	0.142859	0.14102	0.141985	0.13449
0.11	0.130886	0.134401	0.133478	0.138837	0.137517	0.141032	0.130786
0.1	0.127383	0.134362	0.129975	0.133765	0.134014	0.140993	0.127082
0.1	0.12388	0.135238	0.126472	0.127644	0.130511	0.141868	0.123378
0.09	0.098377	0.116683	0.100969	0.118379	0.105007	0.123313	0.09821
0.09	0.094606	0.109445	0.097198	0.116456	0.101237	0.116075	0.094506
0.08	0.090836	0.103121	0.093428	0.113483	0.097466	0.109751	0.090802

0.08	0.087065	0.097711	0.089657	0.10946	0.093695	0.104341	0.087098
0.07	0.083294	0.093215	0.085887	0.104389	0.089925	0.099846	0.083395
0.05	0.079524	0.089634	0.082116	0.098268	0.086154	0.096264	0.079691
0.07	0.055358	0.081778	0.057951	0.069418	0.061989	0.088409	0.054522
0.07	0.05132	0.070083	0.053912	0.067495	0.057951	0.076714	0.050818
0.06	0.047282	0.059303	0.049874	0.064521	0.053912	0.065933	0.047115
0.06	0.043244	0.049436	0.045836	0.060499	0.049874	0.056066	0.043411
0.06	0.039206	0.040483	0.041798	0.055427	0.045836	0.047114	0.039707
0.04	0.035167	0.032445	0.03776	0.049306	0.041798	0.039075	0.036004
0.04	0.01234	0.03529	0.014932	0.000873	0.01897	0.04192	0.010835
0.04	0.008034	0.019138	0.010626	-0.00105	0.014665	0.025768	0.007131
0.04	0.003728	0.0039	0.006321	-0.00402	0.010359	0.010531	0.003427
0.04	-0.00058	-0.01042	0.002015	-0.00805	0.006053	-0.00379	-0.00028
0.03	-0.00488	-0.02383	-0.00229	-0.01312	0.001747	-0.0172	-0.00398
0.03	-0.00919	-0.03633	-0.0066	-0.01924	-0.00256	-0.0297	-0.00768
0.211	0.212738	0.180061	0.21533	0.185872	0.206612	0.173935	0.213908
0.21	0.209502	0.181737	0.212094	0.183948	0.203376	0.175611	0.210205
0.21	0.206267	0.184327	0.208859	0.180975	0.200141	0.178201	0.206501
0.2	0.203031	0.187831	0.205623	0.176953	0.196905	0.181705	0.202797
0.19	0.199796	0.192249	0.202388	0.171881	0.19367	0.186123	0.199093
0.19	0.19656	0.197581	0.199153	0.16576	0.190434	0.191455	0.19539
0.18	0.191228	0.175641	0.193821	0.183424	0.185102	0.169515	0.192065
0.179	0.187859	0.175089	0.190451	0.1815	0.181733	0.168963	0.188361
0.178	0.18449	0.17545	0.187082	0.178527	0.178364	0.169324	0.184657
0.175	0.181121	0.176726	0.183713	0.174505	0.174995	0.1706	0.180953
0.175	0.177751	0.178916	0.180344	0.169433	0.171625	0.17279	0.17725
0.169	0.174382	0.182019	0.176974	0.163312	0.168256	0.175893	0.173546
0.152	0.169719	0.168326	0.172311	0.17608	0.163593	0.1622	0.170221
0.153	0.166216	0.165545	0.168808	0.174156	0.16009	0.159419	0.166517
0.152	0.162713	0.163678	0.165305	0.171183	0.156587	0.157552	0.162813
0.151	0.15921	0.162725	0.161802	0.167161	0.153084	0.156599	0.15911
0.151	0.155707	0.162686	0.158299	0.162089	0.149581	0.15656	0.155406
0.148	0.152204	0.163562	0.154796	0.155968	0.146078	0.157436	0.151702
0.137	0.126701	0.145006	0.129293	0.146703	0.120575	0.13888	0.126533
0.136	0.12293	0.137768	0.125522	0.14478	0.116804	0.131642	0.12283
0.139	0.119159	0.131444	0.121752	0.141806	0.113033	0.125318	0.119126
0.137	0.115389	0.126035	0.117981	0.137784	0.109263	0.119909	0.115422
0.135	0.111618	0.121539	0.11421	0.132712	0.105492	0.115413	0.111719
0.123	0.107848	0.117957	0.11044	0.126591	0.101722	0.111831	0.108015
0.121	0.083682	0.110102	0.086274	0.097742	0.077556	0.103976	0.082846
0.119	0.079644	0.098407	0.082236	0.095818	0.073518	0.092281	0.079142
0.119	0.075606	0.087626	0.078198	0.092845	0.06948	0.0815	0.075439
0.119	0.071568	0.07776	0.07416	0.088823	0.065442	0.071634	0.071735
0.118	0.067529	0.068807	0.070122	0.083751	0.061403	0.062681	0.068031
0.09	0.063491	0.060769	0.066084	0.07763	0.057365	0.054643	0.064327

0.095	0.040664	0.063613	0.043256	0.029196	0.034538	0.057487	0.039159
0.094	0.036358	0.047462	0.03895	0.027273	0.030232	0.041336	0.035455
0.094	0.032052	0.032224	0.034644	0.0243	0.025926	0.026098	0.031751
0.093	0.027746	0.0179	0.030339	0.020277	0.02162	0.011774	0.028047
0.088	0.023441	0.004491	0.026033	0.015206	0.017315	-0.00164	0.024344
0.05	0.019135	-0.008	0.021727	0.009085	0.013009	-0.01413	0.02064
0.311	0.269385	0.236708	0.271978	0.24252	0.268881	0.236204	0.270556
0.312	0.26615	0.238384	0.268742	0.240596	0.265645	0.23788	0.266852
0.3	0.262914	0.240974	0.265507	0.237623	0.26241	0.24047	0.263148
0.31	0.259679	0.244478	0.262271	0.233601	0.259174	0.243974	0.259445
0.308	0.256443	0.248896	0.259036	0.228529	0.255939	0.248392	0.255741
0.303	0.253208	0.254229	0.2558	0.222408	0.252703	0.253724	0.252037
0.284	0.247876	0.232289	0.250468	0.240072	0.247372	0.231785	0.248712
0.282	0.244507	0.231736	0.247099	0.238148	0.244002	0.231232	0.245008
0.278	0.241137	0.232098	0.24373	0.235175	0.240633	0.231593	0.241305
0.269	0.237768	0.233373	0.240361	0.231153	0.237264	0.232869	0.237601
0.266	0.234399	0.235563	0.236991	0.226081	0.233894	0.235059	0.233897
0.252	0.23103	0.238667	0.233622	0.21996	0.230525	0.238163	0.230194
0.213	0.226367	0.224973	0.228959	0.232728	0.225862	0.224469	0.226868
0.212	0.222864	0.222192	0.225456	0.230804	0.222359	0.221688	0.223165
0.214	0.219361	0.220325	0.221953	0.227831	0.218856	0.219821	0.219461
0.208	0.215858	0.219373	0.21845	0.223808	0.215353	0.218868	0.215757
0.206	0.212355	0.219334	0.214947	0.218737	0.21185	0.218829	0.212054
0.204	0.208852	0.220209	0.211444	0.212616	0.208347	0.219705	0.20835
0.153	0.183348	0.201654	0.185941	0.203351	0.182844	0.20115	0.183181
0.158	0.179578	0.194416	0.18217	0.201427	0.179073	0.193912	0.179477
0.157	0.175807	0.188092	0.178399	0.198454	0.175303	0.187588	0.175774
0.152	0.172036	0.182682	0.174629	0.194432	0.171532	0.182178	0.17207
0.149	0.168266	0.178187	0.170858	0.18936	0.167761	0.177682	0.168366
0.148	0.164495	0.174605	0.167087	0.183239	0.163991	0.174101	0.164662
0.119	0.14033	0.16675	0.142922	0.15439	0.139825	0.166245	0.139494
0.118	0.136292	0.155055	0.138884	0.152466	0.135787	0.15455	0.13579
0.118	0.132253	0.144274	0.134846	0.149493	0.131749	0.14377	0.132086
0.118	0.128215	0.134407	0.130807	0.145471	0.127711	0.133903	0.128382
0.117	0.124177	0.125455	0.126769	0.140399	0.123673	0.12495	0.124679
0.1	0.120139	0.117416	0.122731	0.134278	0.119634	0.116912	0.120975
0.1	0.097311	0.120261	0.099903	0.085844	0.096807	0.119757	0.095806
0.1	0.093005	0.104109	0.095598	0.08392	0.092501	0.103605	0.092102
0.09	0.0887	0.088871	0.091292	0.080947	0.088195	0.088367	0.088399
0.09	0.084394	0.074548	0.086986	0.076925	0.083889	0.074043	0.084695
0.09	0.080088	0.061138	0.082681	0.071853	0.079584	0.060634	0.080991
0.08	0.075782	0.048643	0.078375	0.065732	0.075278	0.048138	0.077288
0.15	0.17176	0.139083	0.176299	0.144895	0.178391	0.145714	0.172931
0.15	0.168525	0.140759	0.173064	0.142971	0.175155	0.14739	0.169227
0.14	0.165289	0.143349	0.169828	0.139998	0.17192	0.149979	0.165523
0.14	0.162054	0.146853	0.166593	0.135975	0.168684	0.153484	0.161819
0.13	0.158818	0.151271	0.163357	0.130904	0.165449	0.157902	0.158116
0.13	0.155583	0.156603	0.160122	0.124783	0.162213	0.163234	0.154412

0.13	0.150251	0.134664	0.15479	0.142447	0.156881	0.141294	0.151087
0.13	0.146882	0.134111	0.151421	0.140523	0.153512	0.140742	0.147383
0.13	0.143512	0.134473	0.148052	0.13755	0.150143	0.141103	0.143679
0.13	0.140143	0.135748	0.144682	0.133527	0.146774	0.142379	0.139976
0.12	0.136774	0.137938	0.141313	0.128456	0.143404	0.144568	0.136272
0.12	0.133404	0.141042	0.137944	0.122335	0.140035	0.147672	0.132568
0.11	0.128742	0.127348	0.133281	0.135102	0.135372	0.133979	0.129243
0.11	0.125238	0.124567	0.129778	0.133179	0.131869	0.131198	0.12554
0.11	0.121735	0.1227	0.126275	0.130206	0.128366	0.129331	0.121836
0.1	0.118232	0.121747	0.122772	0.126183	0.124863	0.128378	0.118132
0.09	0.114729	0.121709	0.119269	0.121111	0.12136	0.128339	0.114428
0.09	0.111226	0.122584	0.115766	0.11499	0.117857	0.129214	0.110725
0.09	0.085723	0.104029	0.090262	0.105726	0.092354	0.110659	0.085556
0.09	0.081952	0.096791	0.086492	0.103802	0.088583	0.103421	0.081852
0.08	0.078182	0.090467	0.082721	0.100829	0.084812	0.097097	0.078148
0.08	0.074411	0.085057	0.07895	0.096806	0.081042	0.091688	0.074445
0.08	0.070641	0.080561	0.07518	0.091735	0.077271	0.087192	0.070741
0.07	0.06687	0.07698	0.071409	0.085614	0.0735	0.08361	0.067037
0.07	0.042704	0.069125	0.047244	0.056765	0.049335	0.075755	0.041868
0.07	0.038666	0.05743	0.043206	0.054841	0.045297	0.06406	0.038165
0.07	0.034628	0.046649	0.039167	0.051868	0.041259	0.053279	0.034461
0.06	0.03059	0.036782	0.035129	0.047845	0.03722	0.043413	0.030757
0.05	0.026552	0.02783	0.031091	0.042774	0.033182	0.03446	0.027053
0.04	0.022514	0.019791	0.027053	0.036653	0.029144	0.026422	0.02335
0.04	-0.00031	0.022636	0.004225	-0.01178	0.006316	0.029266	-0.00182
0.04	-0.00462	0.006484	-8E-05	-0.0137	0.002011	0.013115	-0.00552
0.04	-0.00893	-0.00875	-0.00439	-0.01668	-0.0023	-0.00212	-0.00923
0.04	-0.01323	-0.02308	-0.00869	-0.0207	-0.0066	-0.01645	-0.01293
0.04	-0.01754	-0.03649	-0.013	-0.02577	-0.01091	-0.02986	-0.01663
0.03	-0.02184	-0.04898	-0.0173	-0.03189	-0.01521	-0.04235	-0.02034
0.211	0.200084	0.167407	0.204623	0.173218	0.193958	0.161281	0.201254
0.208	0.196848	0.169083	0.201388	0.171295	0.190722	0.162957	0.197551
0.212	0.193613	0.171673	0.198152	0.168322	0.187487	0.165547	0.193847
0.208	0.190377	0.175177	0.194917	0.164299	0.184251	0.169051	0.190143
0.193	0.187142	0.179595	0.191681	0.159228	0.181016	0.173469	0.18644
0.191	0.183906	0.184927	0.188446	0.153107	0.17778	0.178801	0.182736
0.175	0.178575	0.162988	0.183114	0.17077	0.172449	0.156862	0.179411
0.174	0.175205	0.162435	0.179745	0.168847	0.169079	0.156309	0.175707
0.171	0.171836	0.162796	0.176375	0.165874	0.16571	0.15667	0.172003
0.171	0.168467	0.164072	0.173006	0.161851	0.162341	0.157946	0.1683
0.171	0.165098	0.166262	0.169637	0.156779	0.158972	0.160136	0.164596
0.165	0.161728	0.169366	0.166268	0.150658	0.155602	0.16324	0.160892
0.145	0.157065	0.155672	0.161605	0.163426	0.150939	0.149546	0.157567
0.148	0.153562	0.152891	0.158102	0.161502	0.147436	0.146765	0.153863
0.146	0.150059	0.151024	0.154599	0.158529	0.143933	0.144898	0.15016
0.146	0.146556	0.150071	0.151096	0.154507	0.14043	0.143945	0.146456
0.146	0.143053	0.150032	0.147592	0.149435	0.136927	0.143906	0.142752
0.139	0.13955	0.150908	0.144089	0.143314	0.133424	0.144782	0.139048

0.129	0.114047	0.132353	0.118586	0.13405	0.107921	0.126227	0.11388
0.128	0.110276	0.125115	0.114816	0.132126	0.10415	0.118989	0.110176
0.127	0.106506	0.118791	0.111045	0.129153	0.10038	0.112665	0.106472
0.127	0.102735	0.113381	0.107274	0.12513	0.096609	0.107255	0.102768
0.126	0.098964	0.108885	0.103504	0.120059	0.092838	0.102759	0.099065
0.115	0.095194	0.105304	0.099733	0.113938	0.089068	0.099178	0.095361
0.113	0.071028	0.097448	0.075568	0.085088	0.064902	0.091322	0.070192
0.112	0.06699	0.085754	0.071529	0.083165	0.060864	0.079627	0.066488
0.112	0.062952	0.074973	0.067491	0.080192	0.056826	0.068847	0.062785
0.111	0.058914	0.065106	0.063453	0.076169	0.052788	0.05898	0.059081
0.111	0.054876	0.056153	0.059415	0.071097	0.04875	0.050027	0.055377
0.095	0.050837	0.048115	0.055377	0.064976	0.044711	0.041989	0.051674
0.081	0.02801	0.05096	0.032549	0.016543	0.021884	0.044834	0.026505
0.079	0.023704	0.034808	0.028243	0.014619	0.017578	0.028682	0.022801
0.075	0.019398	0.01957	0.023938	0.011646	0.013272	0.013444	0.019097
0.075	0.015093	0.005246	0.019632	0.007623	0.008967	-0.00088	0.015394
0.074	0.010787	-0.00816	0.015326	0.002552	0.004661	-0.01429	0.01169
0.051	0.006481	-0.02066	0.01102	-0.00357	0.000355	-0.02678	0.007986
0.312	0.256731	0.224055	0.261271	0.229866	0.256227	0.22355	0.257902
0.311	0.253496	0.22573	0.258035	0.227942	0.252992	0.225226	0.254198
0.31	0.250261	0.22832	0.2548	0.224969	0.249756	0.227816	0.250495
0.308	0.247025	0.231824	0.251564	0.220947	0.246521	0.23132	0.246791
0.306	0.24379	0.236243	0.248329	0.215875	0.243285	0.235738	0.243087
0.304	0.240554	0.241575	0.245093	0.209754	0.24005	0.24107	0.239383
0.279	0.235222	0.219635	0.239762	0.227418	0.234718	0.219131	0.236058
0.28	0.231853	0.219083	0.236392	0.225494	0.231348	0.218578	0.232355
0.275	0.228484	0.219444	0.233023	0.222521	0.227979	0.21894	0.228651
0.264	0.225114	0.22072	0.229654	0.218499	0.22461	0.220215	0.224947
0.259	0.221745	0.222909	0.226284	0.213427	0.221241	0.222405	0.221243
0.249	0.218376	0.226013	0.222915	0.207306	0.217871	0.225509	0.21754
0.181	0.213713	0.21232	0.218252	0.220074	0.213208	0.211815	0.214215
0.182	0.21021	0.209539	0.214749	0.21815	0.209705	0.209034	0.210511
0.181	0.206707	0.207672	0.211246	0.215177	0.206202	0.207167	0.206807
0.181	0.203204	0.206719	0.207743	0.211155	0.202699	0.206214	0.203103
0.179	0.199701	0.20668	0.20424	0.206083	0.199196	0.206176	0.1994
0.165	0.196198	0.207555	0.200737	0.199962	0.195693	0.207051	0.195696
0.139	0.170694	0.189	0.175234	0.190697	0.17019	0.188496	0.170527
0.138	0.166924	0.181762	0.171463	0.188773	0.166419	0.181258	0.166823
0.138	0.163153	0.175438	0.167693	0.1858	0.162649	0.174934	0.16312
0.138	0.159383	0.170029	0.163922	0.181778	0.158878	0.169524	0.159416
0.137	0.155612	0.165533	0.160151	0.176706	0.155108	0.165028	0.155712
0.131	0.151841	0.161951	0.156381	0.170585	0.151337	0.161447	0.152009
0.115	0.127676	0.154096	0.132215	0.141736	0.127171	0.153592	0.12684
0.114	0.123638	0.142401	0.128177	0.139812	0.123133	0.141897	0.123136
0.114	0.1196	0.13162	0.124139	0.136839	0.119095	0.131116	0.119432
0.112	0.115561	0.121754	0.120101	0.132817	0.115057	0.121249	0.115729
0.112	0.111523	0.112801	0.116063	0.127745	0.111019	0.112297	0.112025
0.095	0.107485	0.104762	0.112024	0.121624	0.106981	0.104258	0.108321

0.079	0.084657	0.107607	0.089197	0.07319	0.084153	0.107103	0.083152
0.078	0.080352	0.091455	0.084891	0.071267	0.079847	0.090951	0.079449
0.078	0.076046	0.076218	0.080585	0.068293	0.075541	0.075713	0.075745
0.075	0.07174	0.061894	0.076279	0.064271	0.071236	0.06139	0.072041
0.074	0.067434	0.048485	0.071974	0.059199	0.06693	0.04798	0.068337
0.05	0.063129	0.035989	0.067668	0.053078	0.062624	0.035485	0.064634
0.15	0.159106	0.126429	0.154886	0.132241	0.165737	0.13306	0.160277
0.15	0.155871	0.128105	0.15165	0.130317	0.162501	0.134736	0.156573
0.14	0.152635	0.130695	0.148415	0.127344	0.159266	0.137326	0.152869
0.14	0.1494	0.134199	0.145179	0.123322	0.15603	0.14083	0.149166
0.13	0.146164	0.138617	0.141944	0.11825	0.152795	0.145248	0.145462
0.13	0.142929	0.14395	0.138708	0.112129	0.149559	0.15058	0.141758
0.11	0.137597	0.12201	0.133377	0.129793	0.144228	0.128641	0.138433
0.11	0.134228	0.121457	0.130007	0.127869	0.140858	0.128088	0.134729
0.1	0.130858	0.121819	0.126638	0.124896	0.137489	0.128449	0.131026
0.1	0.127489	0.123094	0.123269	0.120874	0.13412	0.129725	0.127322
0.1	0.12412	0.125284	0.1199	0.115802	0.13075	0.131915	0.123618
0.085	0.120751	0.128388	0.11653	0.109681	0.127381	0.135018	0.119915
0.085	0.116088	0.114694	0.111867	0.122449	0.122718	0.121325	0.116589
0.085	0.112585	0.111913	0.108364	0.120525	0.119215	0.118544	0.112886
0.085	0.109082	0.110046	0.104861	0.117552	0.115712	0.116677	0.109182
0.08	0.105579	0.109094	0.101358	0.113529	0.112209	0.115724	0.105478
0.085	0.102076	0.109055	0.097855	0.108458	0.108706	0.115685	0.101775
0.075	0.098573	0.10993	0.094352	0.102337	0.105203	0.116561	0.098071
0.06	0.073069	0.091375	0.068849	0.093072	0.0797	0.098005	0.072902
0.06	0.069299	0.084137	0.065078	0.091148	0.075929	0.090767	0.069198
0.05	0.065528	0.077813	0.061308	0.088175	0.072159	0.084444	0.065495
0.05	0.061757	0.072403	0.057537	0.084153	0.068388	0.079034	0.061791
0.05	0.057987	0.067908	0.053766	0.079081	0.064617	0.074538	0.058087
0.05	0.054216	0.064326	0.049996	0.07296	0.060847	0.070957	0.054383
0.04	0.030051	0.056471	0.02583	0.044111	0.036681	0.063101	0.029215
0.04	0.026013	0.044776	0.021792	0.042187	0.032643	0.051406	0.025511
0.04	0.021974	0.033995	0.017754	0.039214	0.028605	0.040626	0.021807
0.03	0.017936	0.024128	0.013716	0.035192	0.024567	0.030759	0.018103
0.03	0.013898	0.015176	0.009678	0.03012	0.020529	0.021806	0.0144
0.03	0.00986	0.007137	0.005639	0.023999	0.01649	0.013768	0.010696
0.02	-0.01297	0.009982	-0.01719	-0.02443	-0.00634	0.016613	-0.01447
0.02	-0.01727	-0.00617	-0.02149	-0.02636	-0.01064	0.000461	-0.01818
0.02	-0.02158	-0.02141	-0.0258	-0.02933	-0.01495	-0.01478	-0.02188
0.015	-0.02589	-0.03573	-0.03011	-0.03335	-0.01925	-0.0291	-0.02558
0.015	-0.03019	-0.04914	-0.03441	-0.03843	-0.02356	-0.04251	-0.02929
0.005	-0.0345	-0.06164	-0.03872	-0.04455	-0.02787	-0.05501	-0.03299
0.212	0.18743	0.154753	0.18321	0.160565	0.181304	0.148627	0.188601
0.212	0.184195	0.156429	0.179974	0.158641	0.178069	0.150303	0.184897
0.213	0.180959	0.159019	0.176739	0.155668	0.174833	0.152893	0.181193
0.21	0.177724	0.162523	0.173503	0.151645	0.171598	0.156397	0.17749
0.205	0.174488	0.166941	0.170268	0.146574	0.168362	0.160815	0.173786
0.199	0.171253	0.172273	0.167032	0.140453	0.165127	0.166147	0.170082

0.169	0.165921	0.150334	0.1617	0.158117	0.159795	0.144208	0.166757
0.168	0.162552	0.149781	0.158331	0.156193	0.156426	0.143655	0.163053
0.167	0.159182	0.150143	0.154962	0.15322	0.153056	0.144017	0.15935
0.163	0.155813	0.151418	0.151593	0.149197	0.149687	0.145292	0.155646
0.162	0.152444	0.153608	0.148223	0.144126	0.146318	0.147482	0.151942
0.156	0.149075	0.156712	0.144854	0.138005	0.142948	0.150586	0.148238
0.131	0.144412	0.143018	0.140191	0.150772	0.138286	0.136892	0.144913
0.129	0.140909	0.140237	0.136688	0.148849	0.134782	0.134111	0.14121
0.128	0.137405	0.13837	0.133185	0.145876	0.131279	0.132244	0.137506
0.126	0.133902	0.137417	0.129682	0.141853	0.127776	0.131291	0.133802
0.124	0.130399	0.137379	0.126179	0.136782	0.124273	0.131253	0.130098
0.116	0.126896	0.138254	0.122676	0.13066	0.12077	0.132128	0.126395
0.101	0.101393	0.119699	0.097173	0.121396	0.095267	0.113573	0.101226
0.098	0.097622	0.112461	0.093402	0.119472	0.091496	0.106335	0.097522
0.099	0.093852	0.106137	0.089631	0.116499	0.087726	0.100011	0.093818
0.098	0.090081	0.100727	0.085861	0.112477	0.083955	0.094601	0.090115
0.096	0.086311	0.096231	0.08209	0.107405	0.080185	0.090105	0.086411
0.088	0.08254	0.09265	0.07832	0.101284	0.076414	0.086524	0.082707
0.068	0.058375	0.084795	0.054154	0.072435	0.052248	0.078669	0.057538
0.066	0.054336	0.0731	0.050116	0.070511	0.04821	0.066974	0.053835
0.067	0.050298	0.062319	0.046078	0.067538	0.044172	0.056193	0.050131
0.066	0.04626	0.052452	0.04204	0.063515	0.040134	0.046326	0.046427
0.065	0.042222	0.0435	0.038001	0.058444	0.036096	0.037374	0.042723
0.058	0.038184	0.035461	0.033963	0.052323	0.032058	0.029335	0.03902
0.024	0.015356	0.038306	0.011136	0.003889	0.00923	0.03218	0.013851
0.023	0.01105	0.022154	0.00683	0.001965	0.004924	0.016028	0.010147
0.023	0.006745	0.006916	0.002524	-0.00101	0.000618	0.00079	0.006444
0.021	0.002439	-0.00741	-0.00178	-0.00503	-0.00369	-0.01353	0.00274
0.02	-0.00187	-0.02082	-0.00609	-0.0101	-0.00799	-0.02694	-0.00096
0.012	-0.00617	-0.03331	-0.01039	-0.01622	-0.0123	-0.03944	-0.00467
0.31	0.244078	0.211401	0.239857	0.217212	0.243573	0.210896	0.245248
0.31	0.240842	0.213077	0.236622	0.215289	0.240338	0.212572	0.241545
0.3	0.237607	0.215667	0.233386	0.212315	0.237102	0.215162	0.237841
0.309	0.234371	0.219171	0.230151	0.208293	0.233867	0.218666	0.234137
0.304	0.231136	0.223589	0.226915	0.203221	0.230631	0.223084	0.230433
0.303	0.2279	0.228921	0.22368	0.1971	0.227396	0.228417	0.22673
0.263	0.222568	0.206981	0.218348	0.214764	0.222064	0.206477	0.223405
0.263	0.219199	0.206429	0.214979	0.21284	0.218695	0.205924	0.219701
0.261	0.21583	0.20679	0.211609	0.209867	0.215325	0.206286	0.215997
0.262	0.212461	0.208066	0.20824	0.205845	0.211956	0.207561	0.212293
0.259	0.209091	0.210256	0.204871	0.200773	0.208587	0.209751	0.20859
0.245	0.205722	0.213359	0.201502	0.194652	0.205218	0.212855	0.204886
0.153	0.201059	0.199666	0.196839	0.20742	0.200555	0.199161	0.201561
0.151	0.197556	0.196885	0.193336	0.205496	0.197052	0.19638	0.197857
0.152	0.194053	0.195018	0.189833	0.202523	0.193549	0.194513	0.194153
0.151	0.19055	0.194065	0.18633	0.198501	0.190046	0.193561	0.19045

0.147	0.187047	0.194026	0.182827	0.193429	0.186543	0.193522	0.186746
0.143	0.183544	0.194902	0.179324	0.187308	0.183039	0.194397	0.183042
0.118	0.158041	0.176346	0.15382	0.178043	0.157536	0.175842	0.157873
0.117	0.15427	0.169108	0.15005	0.17612	0.153766	0.168604	0.15417
0.117	0.150499	0.162785	0.146279	0.173147	0.149995	0.16228	0.150466
0.117	0.146729	0.157375	0.142508	0.169124	0.146224	0.15687	0.146762
0.115	0.142958	0.152879	0.138738	0.164052	0.142454	0.152375	0.143059
0.102	0.139188	0.149297	0.134967	0.157931	0.138683	0.148793	0.139355
0.074	0.115022	0.141442	0.110802	0.129082	0.114518	0.140938	0.114186
0.073	0.110984	0.129747	0.106764	0.127158	0.110479	0.129243	0.110482
0.073	0.106946	0.118967	0.102725	0.124185	0.106441	0.118462	0.106779
0.072	0.102908	0.1091	0.098687	0.120163	0.102403	0.108595	0.103075
0.071	0.098869	0.100147	0.094649	0.115091	0.098365	0.099643	0.099371
0.058	0.094831	0.092109	0.090611	0.10897	0.094327	0.091604	0.095667
0.029	0.072004	0.094953	0.067783	0.060536	0.071499	0.094449	0.070499
0.028	0.067698	0.078802	0.063477	0.058613	0.067193	0.078297	0.066795
0.026	0.063392	0.063564	0.059172	0.05564	0.062888	0.063059	0.063091
0.025	0.059086	0.04924	0.054866	0.051617	0.058582	0.048736	0.059387
0.021	0.054781	0.035831	0.05056	0.046546	0.054276	0.035326	0.055684
0.011	0.050475	0.023335	0.046254	0.040425	0.04997	0.022831	0.05198
0.161	0.204175	0.171498	0.202192	0.177309	0.210805	0.178128	0.205345
0.159	0.200939	0.173174	0.198957	0.175386	0.20757	0.179804	0.201642
0.158	0.197704	0.175764	0.195721	0.172412	0.204334	0.182394	0.197938
0.157	0.194468	0.179268	0.192486	0.16839	0.201099	0.185898	0.194234
0.154	0.191233	0.183686	0.18925	0.163318	0.197863	0.190316	0.19053
0.147	0.187997	0.189018	0.186015	0.157197	0.194628	0.195649	0.186827
0.151	0.182665	0.167078	0.180683	0.174861	0.189296	0.173709	0.183502
0.147	0.179296	0.166526	0.177314	0.172937	0.185927	0.173156	0.179798
0.148	0.175927	0.166887	0.173944	0.169964	0.182557	0.173518	0.176094
0.143	0.172558	0.168163	0.170575	0.165942	0.179188	0.174793	0.17239
0.139	0.169188	0.170353	0.167206	0.16087	0.175819	0.176983	0.168687
0.134	0.165819	0.173456	0.163837	0.154749	0.17245	0.180087	0.164983
0.121	0.161156	0.159763	0.159174	0.167517	0.167787	0.166393	0.161658
0.119	0.157653	0.156982	0.155671	0.165593	0.164284	0.163612	0.157954
0.119	0.15415	0.155115	0.152168	0.16262	0.160781	0.161745	0.15425
0.121	0.150647	0.154162	0.148665	0.158598	0.157278	0.160793	0.150547
0.122	0.147144	0.154123	0.145162	0.153526	0.153774	0.160754	0.146843
0.119	0.143641	0.154999	0.141659	0.147405	0.150271	0.161629	0.143139
0.101	0.118138	0.136443	0.116155	0.13814	0.124768	0.143074	0.11797
0.099	0.114367	0.129205	0.112385	0.136217	0.120998	0.135836	0.114267
0.097	0.110596	0.122882	0.108614	0.133244	0.117227	0.129512	0.110563
0.096	0.106826	0.117472	0.104843	0.129221	0.113456	0.124102	0.106859
0.089	0.103055	0.112976	0.101073	0.124149	0.109686	0.119607	0.103156
0.068	0.099285	0.109394	0.097302	0.118028	0.105915	0.116025	0.099452
0.071	0.075119	0.101539	0.073137	0.089179	0.08175	0.10817	0.074283
0.069	0.071081	0.089844	0.069099	0.087255	0.077711	0.096475	0.070579
0.068	0.067043	0.079064	0.06506	0.084282	0.073673	0.085694	0.066876
0.065	0.063005	0.069197	0.061022	0.08026	0.069635	0.075827	0.063172

0.063	0.058966	0.060244	0.056984	0.075188	0.065597	0.066875	0.059468
0.049	0.054928	0.052206	0.052946	0.069067	0.061559	0.058836	0.055764
0.052	0.032101	0.05505	0.030118	0.020633	0.038731	0.061681	0.030596
0.051	0.027795	0.038899	0.025812	0.01871	0.034425	0.045529	0.026892
0.047	0.023489	0.023661	0.021507	0.015737	0.03012	0.030291	0.023188
0.043	0.019183	0.009337	0.017201	0.011714	0.025814	0.015968	0.019484
0.041	0.014878	-0.00407	0.012895	0.006643	0.021508	0.002558	0.015781
0.038	0.010572	-0.01657	0.008589	0.000522	0.017202	-0.00994	0.012077
0.223	0.232499	0.199822	0.230516	0.205633	0.226372	0.193696	0.233669
0.221	0.229263	0.201497	0.227281	0.203709	0.223137	0.195371	0.229965
0.221	0.226028	0.204087	0.224045	0.200736	0.219902	0.197961	0.226262
0.222	0.222792	0.207591	0.22081	0.196714	0.216666	0.201465	0.222558
0.219	0.219557	0.21201	0.217574	0.191642	0.213431	0.205884	0.218854
0.187	0.216321	0.217342	0.214339	0.185521	0.210195	0.211216	0.21515
0.193	0.210989	0.195402	0.209007	0.203185	0.204863	0.189276	0.211825
0.194	0.20762	0.19485	0.205638	0.201261	0.201494	0.188724	0.208122
0.191	0.204251	0.195211	0.202268	0.198288	0.198125	0.189085	0.204418
0.189	0.200881	0.196487	0.198899	0.194266	0.194755	0.190361	0.200714
0.186	0.197512	0.198676	0.19553	0.189194	0.191386	0.19255	0.19701
0.171	0.194143	0.20178	0.19216	0.183073	0.188017	0.195654	0.193307
0.165	0.18948	0.188087	0.187498	0.195841	0.183354	0.181961	0.189982
0.166	0.185977	0.185306	0.183994	0.193917	0.179851	0.17918	0.186278
0.166	0.182474	0.183439	0.180491	0.190944	0.176348	0.177313	0.182574
0.165	0.178971	0.182486	0.176988	0.186922	0.172845	0.17636	0.178871
0.159	0.175468	0.182447	0.173485	0.18185	0.169342	0.176321	0.175167
0.143	0.171965	0.183322	0.169982	0.175729	0.165839	0.177196	0.171463
0.144	0.146461	0.164767	0.144479	0.166464	0.140335	0.158641	0.146294
0.143	0.142691	0.157529	0.140708	0.16454	0.136565	0.151403	0.142591
0.142	0.13892	0.151205	0.136938	0.161567	0.132794	0.145079	0.138887
0.141	0.13515	0.145796	0.133167	0.157545	0.129024	0.13967	0.135183
0.138	0.131379	0.1413	0.129397	0.152473	0.125253	0.135174	0.131479
0.121	0.127608	0.137718	0.125626	0.146352	0.121482	0.131592	0.127776
0.127	0.103443	0.129863	0.10146	0.117503	0.097317	0.123737	0.102607
0.126	0.099405	0.118168	0.097422	0.115579	0.093279	0.112042	0.098903
0.125	0.095367	0.107387	0.093384	0.112606	0.089241	0.101261	0.095199
0.127	0.091328	0.097521	0.089346	0.108584	0.085202	0.091395	0.091496
0.119	0.08729	0.088568	0.085308	0.103512	0.081164	0.082442	0.087792
0.095	0.083252	0.080529	0.08127	0.097391	0.077126	0.074403	0.084088
0.091	0.060424	0.083374	0.058442	0.048957	0.054298	0.077248	0.058919
0.091	0.056119	0.067222	0.054136	0.047034	0.049993	0.061096	0.055216
0.091	0.051813	0.051985	0.04983	0.04406	0.045687	0.045859	0.051512
0.09	0.047507	0.037661	0.045525	0.040038	0.041381	0.031535	0.047808
0.075	0.043201	0.024252	0.041219	0.034966	0.037075	0.018126	0.044104
0.052	0.038896	0.011756	0.036913	0.028845	0.03277	0.00563	0.040401
0.317	0.289146	0.256469	0.287164	0.262281	0.288642	0.255965	0.290317
0.315	0.285911	0.258145	0.283928	0.260357	0.285406	0.257641	0.286613
0.314	0.282675	0.260735	0.280693	0.257384	0.282171	0.260231	0.282909
0.315	0.27944	0.264239	0.277457	0.253361	0.278935	0.263735	0.279206

0.314	0.276204	0.268657	0.274222	0.24829	0.2757	0.268153	0.275502
0.287	0.272969	0.27399	0.270986	0.242169	0.272464	0.273485	0.271798
0.288	0.267637	0.25205	0.265654	0.259833	0.267132	0.251545	0.268473
0.284	0.264268	0.251497	0.262285	0.257909	0.263763	0.250993	0.264769
0.289	0.260898	0.251859	0.258916	0.254936	0.260394	0.251354	0.261066
0.281	0.257529	0.253134	0.255547	0.250913	0.257025	0.25263	0.257362
0.269	0.25416	0.255324	0.252177	0.245842	0.253655	0.25482	0.253658
0.236	0.250791	0.258428	0.248808	0.239721	0.250286	0.257923	0.249954
0.239	0.246128	0.244734	0.244145	0.252488	0.245623	0.24423	0.246629
0.236	0.242625	0.241953	0.240642	0.250565	0.24212	0.241449	0.242926
0.235	0.239122	0.240086	0.237139	0.247592	0.238617	0.239582	0.239222
0.231	0.235618	0.239133	0.233636	0.243569	0.235114	0.238629	0.235518
0.214	0.232115	0.239095	0.230133	0.238498	0.231611	0.23859	0.231814
0.153	0.228612	0.23997	0.22663	0.232377	0.228108	0.239466	0.228111
0.155	0.203109	0.221415	0.201127	0.223112	0.202605	0.22091	0.202942
0.158	0.199338	0.214177	0.197356	0.221188	0.198834	0.213672	0.199238
0.159	0.195568	0.207853	0.193585	0.218215	0.195063	0.207348	0.195534
0.151	0.191797	0.202443	0.189815	0.214193	0.191293	0.201939	0.191831
0.143	0.188027	0.197947	0.186044	0.209121	0.187522	0.197443	0.188127
0.138	0.184256	0.194366	0.182274	0.203	0.183752	0.193861	0.184423
0.118	0.160091	0.186511	0.158108	0.174151	0.159586	0.186006	0.159254
0.117	0.156052	0.174816	0.15407	0.172227	0.155548	0.174311	0.155551
0.116	0.152014	0.164035	0.150032	0.169254	0.15151	0.16353	0.151847
0.116	0.147976	0.154168	0.145994	0.165231	0.147472	0.153664	0.148143
0.105	0.143938	0.145216	0.141955	0.16016	0.143433	0.144711	0.14444
0.093	0.1399	0.137177	0.137917	0.154039	0.139395	0.136673	0.140736
0.081	0.117072	0.140022	0.11509	0.105605	0.116568	0.139517	0.115567
0.083	0.112766	0.12387	0.110784	0.103681	0.112262	0.123366	0.111863
0.081	0.108461	0.108632	0.106478	0.100708	0.107956	0.108128	0.10816
0.078	0.104155	0.094309	0.102172	0.096686	0.10365	0.093804	0.104456
0.078	0.099849	0.080899	0.097867	0.091614	0.099345	0.080395	0.100752
0.051	0.095543	0.068404	0.093561	0.085493	0.095039	0.067899	0.097048
0.161	0.185194	0.152517	0.190147	0.158329	0.191825	0.159148	0.186365
0.159	0.181959	0.154193	0.186912	0.156405	0.188589	0.160823	0.182661
0.158	0.178723	0.156783	0.183676	0.153432	0.185354	0.163413	0.178957
0.155	0.175488	0.160287	0.180441	0.149409	0.182118	0.166917	0.175253
0.152	0.172252	0.164705	0.177205	0.144338	0.178883	0.171336	0.17155
0.154	0.169017	0.170037	0.17397	0.138217	0.175647	0.176668	0.167846
0.148	0.163685	0.148098	0.168638	0.155881	0.170315	0.154728	0.164521
0.147	0.160315	0.147545	0.165269	0.153957	0.166946	0.154176	0.160817
0.146	0.156946	0.147907	0.161899	0.150984	0.163577	0.154537	0.157113
0.144	0.153577	0.149182	0.15853	0.146961	0.160207	0.155813	0.15341
0.139	0.150208	0.151372	0.155161	0.14189	0.156838	0.158002	0.149706
0.134	0.146838	0.154476	0.151792	0.135769	0.153469	0.161106	0.146002
0.118	0.142175	0.140782	0.147129	0.148536	0.148806	0.147413	0.142677
0.119	0.138672	0.138001	0.143626	0.146613	0.145303	0.144632	0.138973
0.119	0.135169	0.136134	0.140123	0.14364	0.1418	0.142765	0.13527
0.119	0.131666	0.135181	0.136619	0.139617	0.138297	0.141812	0.131566

0.116	0.128163	0.135143	0.133116	0.134545	0.134794	0.141773	0.127862
0.099	0.12466	0.136018	0.129613	0.128424	0.131291	0.142648	0.124159
0.091	0.099157	0.117463	0.10411	0.11916	0.105787	0.124093	0.09899
0.095	0.095386	0.110225	0.100339	0.117236	0.102017	0.116855	0.095286
0.095	0.091616	0.103901	0.096569	0.114263	0.098246	0.110531	0.091582
0.096	0.087845	0.098491	0.092798	0.11024	0.094476	0.105122	0.087879
0.094	0.084075	0.093995	0.089028	0.105169	0.090705	0.100626	0.084175
0.069	0.080304	0.090414	0.085257	0.099048	0.086934	0.097044	0.080471
0.075	0.056138	0.082559	0.061092	0.070198	0.062769	0.089189	0.055302
0.065	0.0521	0.070864	0.057053	0.068275	0.058731	0.077494	0.051599
0.063	0.048062	0.060083	0.053015	0.065302	0.054693	0.066713	0.047895
0.063	0.044024	0.050216	0.048977	0.061279	0.050654	0.056847	0.044191
0.063	0.039986	0.041264	0.044939	0.056208	0.046616	0.047894	0.040487
0.039	0.035948	0.033225	0.040901	0.050087	0.042578	0.039856	0.036784
0.035	0.01312	0.03607	0.018073	0.001653	0.01975	0.0427	0.011615
0.034	0.008814	0.019918	0.013767	-0.00027	0.015445	0.026548	0.007911
0.033	0.004508	0.00468	0.009462	-0.00324	0.011139	0.011311	0.004207
0.033	0.000203	-0.00964	0.005156	-0.00727	0.006833	-0.00301	0.000504
0.031	-0.0041	-0.02305	0.00085	-0.01234	0.002527	-0.01642	-0.0032
0.023	-0.00841	-0.03555	-0.00346	-0.01846	-0.00178	-0.02892	-0.0069
0.223	0.213518	0.180841	0.218471	0.186652	0.207392	0.174715	0.214688
0.221	0.210282	0.182517	0.215235	0.184729	0.204156	0.176391	0.210985
0.221	0.207047	0.185107	0.212	0.181756	0.200921	0.178981	0.207281
0.222	0.203811	0.188611	0.208765	0.177733	0.197685	0.182485	0.203577
0.219	0.200576	0.193029	0.205529	0.172661	0.19445	0.186903	0.199874
0.187	0.19734	0.198361	0.202294	0.16654	0.191214	0.192235	0.19617
0.193	0.192009	0.176422	0.196962	0.184204	0.185883	0.170296	0.192845
0.194	0.188639	0.175869	0.193592	0.182281	0.182513	0.169743	0.189141
0.191	0.18527	0.17623	0.190223	0.179308	0.179144	0.170104	0.185437
0.189	0.181901	0.177506	0.186854	0.175285	0.175775	0.17138	0.181734
0.186	0.178532	0.179696	0.183485	0.170213	0.172405	0.17357	0.17803
0.171	0.175162	0.1828	0.180115	0.164092	0.169036	0.176674	0.174326
0.165	0.170499	0.169106	0.175452	0.17686	0.164373	0.16298	0.171001
0.166	0.166996	0.166325	0.171949	0.174936	0.16087	0.160199	0.167297
0.166	0.163493	0.164458	0.168446	0.171963	0.157367	0.158332	0.163594
0.165	0.15999	0.163505	0.164943	0.167941	0.153864	0.157379	0.15989
0.159	0.156487	0.163466	0.16144	0.162869	0.150361	0.15734	0.156186
0.143	0.152984	0.164342	0.157937	0.156748	0.146858	0.158216	0.152482
0.144	0.127481	0.145787	0.132434	0.147483	0.121355	0.139661	0.127314
0.143	0.12371	0.138549	0.128663	0.14556	0.117584	0.132423	0.12361
0.142	0.11994	0.132225	0.124893	0.142587	0.113814	0.126099	0.119906
0.141	0.116169	0.126815	0.121122	0.138564	0.110043	0.120689	0.116202
0.138	0.112398	0.122319	0.117351	0.133493	0.106272	0.116193	0.112499
0.121	0.108628	0.118738	0.113581	0.127372	0.102502	0.112612	0.108795
0.127	0.084462	0.110882	0.089415	0.098522	0.078336	0.104756	0.083626
0.126	0.080424	0.099187	0.085377	0.096599	0.074298	0.093061	0.079922
0.125	0.076386	0.088407	0.081339	0.093625	0.07026	0.082281	0.076219
0.127	0.072348	0.07854	0.077301	0.089603	0.066222	0.072414	0.072515

0.119	0.06831	0.069587	0.073263	0.084531	0.062184	0.063461	0.068811
0.095	0.064271	0.061549	0.069225	0.07841	0.058145	0.055423	0.065108
0.091	0.041444	0.064394	0.046397	0.029977	0.035318	0.058268	0.039939
0.091	0.037138	0.048242	0.042091	0.028053	0.031012	0.042116	0.036235
0.091	0.032832	0.033004	0.037785	0.02508	0.026706	0.026878	0.032531
0.09	0.028527	0.01868	0.03348	0.021057	0.0224	0.012554	0.028828
0.075	0.024221	0.005271	0.029174	0.015986	0.018095	-0.00086	0.025124
0.052	0.019915	-0.00722	0.024868	0.009865	0.013789	-0.01335	0.02142
0.31	0.270165	0.237489	0.275119	0.2433	0.269661	0.236984	0.271336
0.312	0.26693	0.239164	0.271883	0.241376	0.266425	0.23866	0.267632
0.311	0.263694	0.241754	0.268648	0.238403	0.26319	0.24125	0.263929
0.309	0.260459	0.245258	0.265412	0.234381	0.259955	0.244754	0.260225
0.309	0.257224	0.249677	0.262177	0.229309	0.256719	0.249172	0.256521
0.306	0.253988	0.255009	0.258941	0.223188	0.253484	0.254504	0.252817
0.284	0.248656	0.233069	0.253609	0.240852	0.248152	0.232565	0.249492
0.286	0.245287	0.232517	0.25024	0.238928	0.244782	0.232012	0.245789
0.278	0.241918	0.232878	0.246871	0.235955	0.241413	0.232374	0.242085
0.266	0.238548	0.234154	0.243502	0.231933	0.238044	0.233649	0.238381
0.261	0.235179	0.236343	0.240132	0.226861	0.234675	0.235839	0.234677
0.248	0.23181	0.239447	0.236763	0.22074	0.231305	0.238943	0.230974
0.186	0.227147	0.225754	0.2321	0.233508	0.226642	0.225249	0.227649
0.181	0.223644	0.222973	0.228597	0.231584	0.223139	0.222468	0.223945
0.183	0.220141	0.221106	0.225094	0.228611	0.219636	0.220601	0.220241
0.186	0.216638	0.220153	0.221591	0.224589	0.216133	0.219648	0.216537
0.185	0.213135	0.220114	0.218088	0.219517	0.21263	0.21961	0.212834
0.172	0.209632	0.220989	0.214585	0.213396	0.209127	0.220485	0.20913
0.142	0.184128	0.202434	0.189082	0.204131	0.183624	0.20193	0.183961
0.141	0.180358	0.195196	0.185311	0.202207	0.179853	0.194692	0.180257
0.136	0.176587	0.188872	0.18154	0.199234	0.176083	0.188368	0.176554
0.139	0.172817	0.183462	0.17777	0.195212	0.172312	0.182958	0.17285
0.139	0.169046	0.178967	0.173999	0.19014	0.168541	0.178462	0.169146
0.134	0.165275	0.175385	0.170228	0.184019	0.164771	0.174881	0.165443
0.109	0.14111	0.16753	0.146063	0.15517	0.140605	0.167026	0.140274
0.112	0.137072	0.155835	0.142025	0.153246	0.136567	0.155331	0.13657
0.111	0.133034	0.145054	0.137987	0.150273	0.132529	0.14455	0.132866
0.111	0.128995	0.135188	0.133948	0.146251	0.128491	0.134683	0.129163
0.112	0.124957	0.126235	0.12991	0.141179	0.124453	0.12573	0.125459
0.094	0.120919	0.118196	0.125872	0.135058	0.120415	0.117692	0.121755
0.081	0.098091	0.121041	0.103044	0.086624	0.097587	0.120537	0.096586
0.076	0.093786	0.104889	0.098739	0.0847	0.093281	0.104385	0.092883
0.076	0.08948	0.089652	0.094433	0.081727	0.088975	0.089147	0.089179
0.075	0.085174	0.075328	0.090127	0.077705	0.08467	0.074824	0.085475
0.074	0.080868	0.061918	0.085822	0.072633	0.080364	0.061414	0.081771
0.051	0.076563	0.049423	0.081516	0.066512	0.076058	0.048919	0.078068
0.148	0.17254	0.139863	0.168734	0.145675	0.179171	0.146494	0.173711
0.154	0.169305	0.141539	0.165498	0.143751	0.175935	0.14817	0.170007
0.151	0.166069	0.144129	0.162263	0.140778	0.1727	0.15076	0.166303
0.152	0.162834	0.147633	0.159027	0.136756	0.169464	0.154264	0.1626

0.148	0.159598	0.152051	0.155792	0.131684	0.166229	0.158682	0.158896
0.137	0.156363	0.157384	0.152556	0.125563	0.162993	0.164014	0.155192
0.112	0.151031	0.135444	0.147224	0.143227	0.157661	0.142074	0.151867
0.114	0.147662	0.134891	0.143855	0.141303	0.154292	0.141522	0.148163
0.111	0.144292	0.135253	0.140486	0.13833	0.150923	0.141883	0.14446
0.109	0.140923	0.136528	0.137117	0.134308	0.147554	0.143159	0.140756
0.101	0.137554	0.138718	0.133747	0.129236	0.144184	0.145349	0.137052
0.088	0.134185	0.141822	0.130378	0.123115	0.140815	0.148452	0.133349
0.089	0.129522	0.128128	0.125715	0.135883	0.136152	0.134759	0.130023
0.093	0.126019	0.125347	0.122212	0.133959	0.132649	0.131978	0.12632
0.081	0.122516	0.12348	0.118709	0.130986	0.129146	0.130111	0.122616
0.082	0.119013	0.122528	0.115206	0.126963	0.125643	0.129158	0.118912
0.081	0.11551	0.122489	0.111703	0.121892	0.12214	0.129119	0.115209
0.065	0.112006	0.123364	0.1082	0.115771	0.118637	0.129995	0.111505
0.061	0.086503	0.104809	0.082697	0.106506	0.093134	0.111439	0.086336
0.072	0.082733	0.097571	0.078926	0.104582	0.089363	0.104201	0.082632
0.059	0.078962	0.091247	0.075155	0.101609	0.085592	0.097878	0.078929
0.058	0.075191	0.085837	0.071385	0.097587	0.081822	0.092468	0.075225
0.061	0.071421	0.081342	0.067614	0.092515	0.078051	0.087972	0.071521
0.047	0.06765	0.07776	0.063844	0.086394	0.074281	0.08439	0.067817
0.038	0.043485	0.069905	0.039678	0.057545	0.050115	0.076535	0.042649
0.048	0.039446	0.05821	0.03564	0.055621	0.046077	0.06484	0.038945
0.039	0.035408	0.047429	0.031602	0.052648	0.042039	0.05406	0.035241
0.041	0.03137	0.037562	0.027564	0.048625	0.038001	0.044193	0.031537
0.042	0.027332	0.02861	0.023525	0.043554	0.033962	0.03524	0.027834
0.031	0.023294	0.020571	0.019487	0.037433	0.029924	0.027202	0.02413
0.022	0.000466	0.023416	-0.00334	-0.011	0.007097	0.030047	-0.00104
0.026	-0.00384	0.007264	-0.00765	-0.01292	0.002791	0.013895	-0.00474
0.021	-0.00815	-0.00797	-0.01195	-0.0159	-0.00151	-0.00134	-0.00845
0.019	-0.01245	-0.0223	-0.01626	-0.01992	-0.00582	-0.01567	-0.01215
0.017	-0.01676	-0.03571	-0.02056	-0.02499	-0.01013	-0.02908	-0.01585
0.003	-0.02106	-0.0482	-0.02487	-0.03111	-0.01443	-0.04157	-0.01956
0.22	0.200864	0.168187	0.197057	0.173999	0.194738	0.162061	0.202035
0.218	0.197629	0.169863	0.193822	0.172075	0.191503	0.163737	0.198331
0.219	0.194393	0.172453	0.190586	0.169102	0.188267	0.166327	0.194627
0.217	0.191158	0.175957	0.187351	0.165079	0.185032	0.169831	0.190923
0.211	0.187922	0.180375	0.184116	0.160008	0.181796	0.174249	0.18722
0.201	0.184687	0.185707	0.18088	0.153887	0.178561	0.179581	0.183516
0.173	0.179355	0.163768	0.175548	0.171551	0.173229	0.157642	0.180191
0.168	0.175986	0.163215	0.172179	0.169627	0.169859	0.157089	0.176487
0.171	0.172616	0.163577	0.16881	0.166654	0.16649	0.157451	0.172783
0.17	0.169247	0.164852	0.16544	0.162631	0.163121	0.158726	0.16908
0.168	0.165878	0.167042	0.162071	0.15756	0.159752	0.160916	0.165376
0.157	0.162508	0.170146	0.158702	0.151439	0.156382	0.16402	0.161672
0.133	0.157846	0.156452	0.154039	0.164206	0.151719	0.150326	0.158347
0.134	0.154342	0.153671	0.150536	0.162283	0.148216	0.147545	0.154643
0.133	0.150839	0.151804	0.147033	0.15931	0.144713	0.145678	0.15094
0.132	0.147336	0.150851	0.14353	0.155287	0.14121	0.144725	0.147236

0.131	0.143833	0.150813	0.140027	0.150215	0.137707	0.144687	0.143532
0.108	0.14033	0.151688	0.136524	0.144094	0.134204	0.145562	0.139829
0.106	0.114827	0.133133	0.11102	0.13483	0.108701	0.127007	0.11466
0.107	0.111056	0.125895	0.10725	0.132906	0.10493	0.119769	0.110956
0.099	0.107286	0.119571	0.103479	0.129933	0.10116	0.113445	0.107252
0.102	0.103515	0.114161	0.099709	0.12591	0.097389	0.108035	0.103549
0.099	0.099745	0.109665	0.095938	0.120839	0.093619	0.103539	0.099845
0.091	0.095974	0.106084	0.092167	0.114718	0.089848	0.099958	0.096141
0.071	0.071808	0.098229	0.068002	0.085868	0.065682	0.092103	0.070972
0.069	0.06777	0.086534	0.063964	0.083945	0.061644	0.080408	0.067269
0.068	0.063732	0.075753	0.059926	0.080972	0.057606	0.069627	0.063565
0.068	0.059694	0.065886	0.055887	0.076949	0.053568	0.05976	0.059861
0.066	0.055656	0.056934	0.051849	0.071878	0.04953	0.050808	0.056157
0.052	0.051618	0.048895	0.047811	0.065757	0.045492	0.042769	0.052454
0.029	0.02879	0.05174	0.024983	0.017323	0.022664	0.045614	0.027285
0.024	0.024484	0.035588	0.020678	0.015399	0.018358	0.029462	0.023581
0.024	0.020178	0.02035	0.016372	0.012426	0.014052	0.014224	0.019877
0.023	0.015873	0.006027	0.012066	0.008404	0.009747	-9.9E-05	0.016174
0.021	0.011567	-0.00738	0.00776	0.003332	0.005441	-0.01351	0.01247
0.008	0.007261	-0.01988	0.003455	-0.00279	0.001135	-0.026	0.008766
0.311	0.257512	0.224835	0.253705	0.230646	0.257007	0.22433	0.258682
0.321	0.254276	0.226511	0.25047	0.228722	0.253772	0.226006	0.254979
0.308	0.251041	0.229101	0.247234	0.225749	0.250536	0.228596	0.251275
0.311	0.247805	0.232605	0.243999	0.221727	0.247301	0.2321	0.247571
0.312	0.24457	0.237023	0.240763	0.216655	0.244065	0.236518	0.243867
0.309	0.241334	0.242355	0.237528	0.210534	0.24083	0.241851	0.240164
0.277	0.236002	0.220415	0.232196	0.228198	0.235498	0.219911	0.236839
0.289	0.232633	0.219863	0.228827	0.226274	0.232129	0.219358	0.233135
0.276	0.229264	0.220224	0.225457	0.223301	0.228759	0.21972	0.229431
0.265	0.225895	0.2215	0.222088	0.219279	0.22539	0.220995	0.225727
0.266	0.222525	0.22369	0.218719	0.214207	0.222021	0.223185	0.222024
0.253	0.219156	0.226793	0.215349	0.208086	0.218652	0.226289	0.21832
0.159	0.214493	0.2131	0.210687	0.220854	0.213989	0.212595	0.214995
0.164	0.21099	0.210319	0.207183	0.21893	0.210486	0.209814	0.211291
0.149	0.207487	0.208452	0.20368	0.215957	0.206983	0.207947	0.207587
0.152	0.203984	0.207499	0.200177	0.211935	0.20348	0.206994	0.203884
0.153	0.200481	0.20746	0.196674	0.206863	0.199976	0.206956	0.20018
0.139	0.196978	0.208336	0.193171	0.200742	0.196473	0.207831	0.196476
0.119	0.171475	0.18978	0.167668	0.191477	0.17097	0.189276	0.171307
0.122	0.167704	0.182542	0.163897	0.189554	0.1672	0.182038	0.167604
0.116	0.163933	0.176218	0.160127	0.18658	0.163429	0.175714	0.1639
0.115	0.160163	0.170809	0.156356	0.182558	0.159658	0.170304	0.160196
0.114	0.156392	0.166313	0.152586	0.177486	0.155888	0.165809	0.156493
0.099	0.152622	0.162731	0.148815	0.171365	0.152117	0.162227	0.152789
0.077	0.128456	0.154876	0.124649	0.142516	0.127952	0.154372	0.12762
0.085	0.124418	0.143181	0.120611	0.140592	0.123913	0.142677	0.123916
0.079	0.12038	0.1324	0.116573	0.137619	0.119875	0.131896	0.120213
0.076	0.116342	0.122534	0.112535	0.133597	0.115837	0.122029	0.116509

0.075	0.112303	0.113581	0.108497	0.128525	0.111799	0.113077	0.112805
0.054	0.108265	0.105543	0.104459	0.122404	0.107761	0.105038	0.109101
0.031	0.085438	0.108387	0.081631	0.07397	0.084933	0.107883	0.083933
0.043	0.081132	0.092236	0.077325	0.072047	0.080627	0.091731	0.080229
0.032	0.076826	0.076998	0.073019	0.069074	0.076322	0.076493	0.076525
0.031	0.07252	0.062674	0.068714	0.065051	0.072016	0.06217	0.072821
0.028	0.068215	0.049265	0.064408	0.05998	0.06771	0.04876	0.069118
0.014	0.063909	0.036769	0.060102	0.053859	0.063404	0.036265	0.065414
0.156	0.208308	0.175631	0.206453	0.181443	0.214939	0.182262	0.209479
0.159	0.205073	0.177307	0.203218	0.179519	0.211703	0.183938	0.205775
0.158	0.201837	0.179897	0.199982	0.176546	0.208468	0.186528	0.202071
0.156	0.198602	0.183401	0.196747	0.172524	0.205232	0.190032	0.198368
0.156	0.195366	0.187819	0.193511	0.167452	0.201997	0.19445	0.194664
0.151	0.192131	0.193152	0.190276	0.161331	0.198761	0.199782	0.19096
0.148	0.186799	0.171212	0.184944	0.178995	0.193429	0.177842	0.187635
0.149	0.18343	0.170659	0.181575	0.177071	0.19006	0.17729	0.183931
0.148	0.18006	0.171021	0.178205	0.174098	0.186691	0.177651	0.180228
0.148	0.176691	0.172296	0.174836	0.170076	0.183322	0.178927	0.176524
0.145	0.173322	0.174486	0.171467	0.165004	0.179952	0.181117	0.17282
0.141	0.169953	0.17759	0.168098	0.158883	0.176583	0.18422	0.169116
0.122	0.16529	0.163896	0.163435	0.171651	0.17192	0.170527	0.165791
0.123	0.161787	0.161115	0.159932	0.169727	0.168417	0.167746	0.162088
0.122	0.158284	0.159248	0.156428	0.166754	0.164914	0.165879	0.158384
0.124	0.154781	0.158296	0.152925	0.162731	0.161411	0.164926	0.15468
0.119	0.151278	0.158257	0.149422	0.15766	0.157908	0.164887	0.150976
0.121	0.147774	0.159132	0.145919	0.151539	0.154405	0.165763	0.147273
0.105	0.122271	0.140577	0.120416	0.142274	0.128902	0.147207	0.122104
0.103	0.118501	0.133339	0.116645	0.14035	0.125131	0.139969	0.1184
0.101	0.11473	0.127015	0.112875	0.137377	0.12136	0.133646	0.114696
0.101	0.110959	0.121605	0.109104	0.133355	0.11759	0.128236	0.110993
0.096	0.107189	0.11711	0.105334	0.128283	0.113819	0.12374	0.107289
0.075	0.103418	0.113528	0.101563	0.122162	0.110049	0.120158	0.103585
0.075	0.079253	0.105673	0.077398	0.093313	0.085883	0.112303	0.078416
0.071	0.075214	0.093978	0.073359	0.091389	0.081845	0.100608	0.074713
0.072	0.071176	0.083197	0.069321	0.088416	0.077807	0.089828	0.071009
0.071	0.067138	0.07333	0.065283	0.084393	0.073769	0.079961	0.067305
0.071	0.0631	0.064378	0.061245	0.079322	0.06973	0.071008	0.063602
0.055	0.059062	0.056339	0.057207	0.073201	0.065692	0.06297	0.059898
0.059	0.036234	0.059184	0.034379	0.024767	0.042865	0.065815	0.034729
0.058	0.031928	0.043032	0.030073	0.022843	0.038559	0.049663	0.031025
0.055	0.027623	0.027794	0.025768	0.01987	0.034253	0.034425	0.027322
0.055	0.023317	0.013471	0.021462	0.015848	0.029947	0.020101	0.023618
0.054	0.019011	6.12E-05	0.017156	0.010776	0.025642	0.006692	0.019914
0.043	0.014705	-0.01243	0.01285	0.004655	0.021336	-0.0058	0.01621
0.227	0.236632	0.203955	0.234777	0.209767	0.230506	0.197829	0.237803
0.226	0.233397	0.205631	0.231541	0.207843	0.227271	0.199505	0.234099
0.226	0.230161	0.208221	0.228306	0.20487	0.224035	0.202095	0.230395
0.226	0.226926	0.211725	0.22507	0.200847	0.2208	0.205599	0.226691

0.225	0.22369	0.216143	0.221835	0.195776	0.217564	0.210017	0.222988
0.193	0.220455	0.221475	0.2186	0.189655	0.214329	0.215349	0.219284
0.195	0.215123	0.199536	0.213268	0.207319	0.208997	0.19341	0.215959
0.195	0.211753	0.198983	0.209898	0.205395	0.205627	0.192857	0.212255
0.195	0.208384	0.199345	0.206529	0.202422	0.202258	0.193219	0.208551
0.191	0.205015	0.20062	0.20316	0.198399	0.198889	0.194494	0.204848
0.189	0.201646	0.20281	0.199791	0.193328	0.19552	0.196684	0.201144
0.173	0.198276	0.205914	0.196421	0.187207	0.19215	0.199788	0.19744
0.166	0.193613	0.19222	0.191758	0.199974	0.187487	0.186094	0.194115
0.168	0.19011	0.189439	0.188255	0.198051	0.183984	0.183313	0.190411
0.168	0.186607	0.187572	0.184752	0.195078	0.180481	0.181446	0.186708
0.167	0.183104	0.186619	0.181249	0.191055	0.176978	0.180493	0.183004
0.161	0.179601	0.186581	0.177746	0.185983	0.173475	0.180455	0.1793
0.141	0.176098	0.187456	0.174243	0.179862	0.169972	0.18133	0.175597
0.141	0.150595	0.168901	0.14874	0.170598	0.144469	0.162775	0.150428
0.141	0.146824	0.161663	0.144969	0.168674	0.140698	0.155537	0.146724
0.142	0.143054	0.155339	0.141199	0.165701	0.136928	0.149213	0.14302
0.143	0.139283	0.149929	0.137428	0.161678	0.133157	0.143803	0.139317
0.137	0.135513	0.145433	0.133657	0.156607	0.129387	0.139307	0.135613
0.126	0.131742	0.141852	0.129887	0.150486	0.125616	0.135726	0.131909
0.124	0.107576	0.133997	0.105721	0.121636	0.10145	0.127871	0.10674
0.124	0.103538	0.122302	0.101683	0.119713	0.097412	0.116176	0.103037
0.123	0.0995	0.111521	0.097645	0.11674	0.093374	0.105395	0.099333
0.123	0.095462	0.101654	0.093607	0.112717	0.089336	0.095528	0.095629
0.115	0.091424	0.092702	0.089569	0.107646	0.085298	0.086576	0.091925
0.101	0.087386	0.084663	0.08553	0.101525	0.08126	0.078537	0.088222
0.084	0.064558	0.087508	0.062703	0.053091	0.058432	0.081382	0.063053
0.083	0.060252	0.071356	0.058397	0.051167	0.054126	0.06523	0.059349
0.083	0.055946	0.056118	0.054091	0.048194	0.04982	0.049992	0.055645
0.082	0.051641	0.041795	0.049786	0.044172	0.045515	0.035669	0.051942
0.079	0.047335	0.028385	0.04548	0.0391	0.041209	0.022259	0.048238
0.047	0.043029	0.01589	0.041174	0.032979	0.036903	0.009764	0.044534
0.315	0.29328	0.260603	0.291425	0.266414	0.292775	0.260098	0.29445
0.319	0.290044	0.262279	0.288189	0.26449	0.28954	0.261774	0.290747
0.32	0.286809	0.264869	0.284954	0.261517	0.286304	0.264364	0.287043
0.311	0.283573	0.268373	0.281718	0.257495	0.283069	0.267868	0.283339
0.312	0.280338	0.272791	0.278483	0.252423	0.279833	0.272286	0.279635
0.295	0.277102	0.278123	0.275247	0.246302	0.276598	0.277619	0.275932
0.289	0.27177	0.256183	0.269915	0.263966	0.271266	0.255679	0.272607
0.285	0.268401	0.255631	0.266546	0.262042	0.267897	0.255126	0.268903
0.285	0.265032	0.255992	0.263177	0.259069	0.264527	0.255488	0.265199
0.286	0.261663	0.257268	0.259807	0.255047	0.261158	0.256763	0.261495
0.271	0.258293	0.259458	0.256438	0.249975	0.257789	0.258953	0.257792
0.243	0.254924	0.262561	0.253069	0.243854	0.25442	0.262057	0.254088
0.236	0.250261	0.248868	0.248406	0.256622	0.249757	0.248363	0.250763
0.241	0.246758	0.246087	0.244903	0.254698	0.246254	0.245582	0.247059
0.241	0.243255	0.24422	0.2414	0.251725	0.242751	0.243715	0.243355
0.239	0.239752	0.243267	0.237897	0.247703	0.239248	0.242762	0.239652

0.227	0.236249	0.243228	0.234394	0.242631	0.235744	0.242724	0.235948
0.149	0.232746	0.244104	0.230891	0.23651	0.232241	0.243599	0.232244
0.156	0.207243	0.225548	0.205387	0.227245	0.206738	0.225044	0.207075
0.156	0.203472	0.21831	0.201617	0.225322	0.202968	0.217806	0.203372
0.156	0.199701	0.211986	0.197846	0.222348	0.199197	0.211482	0.199668
0.152	0.195931	0.206577	0.194076	0.218326	0.195426	0.206072	0.195964
0.138	0.19216	0.202081	0.190305	0.213254	0.191656	0.201577	0.19226
0.131	0.18839	0.198499	0.186534	0.207133	0.187885	0.197995	0.188557
0.112	0.164224	0.190644	0.162369	0.178284	0.16372	0.19014	0.163388
0.111	0.160186	0.178949	0.158331	0.17636	0.159681	0.178445	0.159684
0.112	0.156148	0.168168	0.154293	0.173387	0.155643	0.167664	0.15598
0.113	0.15211	0.158302	0.150254	0.169365	0.151605	0.157797	0.152277
0.101	0.148071	0.149349	0.146216	0.164293	0.147567	0.148845	0.148573
0.089	0.144033	0.141311	0.142178	0.158172	0.143529	0.140806	0.144869
0.078	0.121206	0.144155	0.11935	0.109738	0.120701	0.143651	0.1197
0.085	0.1169	0.128004	0.115045	0.107815	0.116395	0.127499	0.115997
0.085	0.112594	0.112766	0.110739	0.104842	0.11209	0.112261	0.112293
0.081	0.108288	0.098442	0.106433	0.100819	0.107784	0.097938	0.108589
0.068	0.103983	0.085033	0.102127	0.095748	0.103478	0.084528	0.104886
0.067	0.099677	0.072537	0.097822	0.089626	0.099172	0.072033	0.101182
0.162	0.189328	0.156651	0.194408	0.162462	0.195958	0.163281	0.190498
0.159	0.186092	0.158326	0.191173	0.160538	0.192723	0.164957	0.186794
0.161	0.182857	0.160916	0.187937	0.157565	0.189487	0.167547	0.183091
0.161	0.179621	0.16442	0.184702	0.153543	0.186252	0.171051	0.179387
0.159	0.176386	0.168839	0.181466	0.148471	0.183016	0.175469	0.175683
0.158	0.17315	0.174171	0.178231	0.14235	0.179781	0.180801	0.17198
0.151	0.167818	0.152231	0.172899	0.160014	0.174449	0.158862	0.168654
0.15	0.164449	0.151679	0.169529	0.15809	0.17108	0.158309	0.164951
0.147	0.16108	0.15204	0.16616	0.155117	0.16771	0.158671	0.161247
0.145	0.15771	0.153316	0.162791	0.151095	0.164341	0.159946	0.157543
0.143	0.154341	0.155505	0.159422	0.146023	0.160972	0.162136	0.15384
0.141	0.150972	0.158609	0.156052	0.139902	0.157602	0.16524	0.150136
0.118	0.146309	0.144916	0.151389	0.15267	0.15294	0.151546	0.146811
0.117	0.142806	0.142135	0.147886	0.150746	0.149436	0.148765	0.143107
0.116	0.139303	0.140268	0.144383	0.147773	0.145933	0.146898	0.139403
0.117	0.1358	0.139315	0.14088	0.143751	0.14243	0.145945	0.1357
0.119	0.132297	0.139276	0.137377	0.138679	0.138927	0.145907	0.131996
0.101	0.128794	0.140151	0.133874	0.132558	0.135424	0.146782	0.128292
0.091	0.10329	0.121596	0.108371	0.123293	0.109921	0.128227	0.103123
0.096	0.09952	0.114358	0.1046	0.121369	0.10615	0.120989	0.09942
0.095	0.095749	0.108034	0.10083	0.118396	0.10238	0.114665	0.095716
0.095	0.091979	0.102625	0.097059	0.114374	0.098609	0.109255	0.092012
0.094	0.088208	0.098129	0.093289	0.109302	0.094839	0.104759	0.088308
0.071	0.084437	0.094547	0.089518	0.103181	0.091068	0.101178	0.084605
0.072	0.060272	0.086692	0.065352	0.074332	0.066902	0.093323	0.059436
0.068	0.056234	0.074997	0.061314	0.072408	0.062864	0.081628	0.055732
0.067	0.052196	0.064216	0.057276	0.069435	0.058826	0.070847	0.052028
0.066	0.048157	0.05435	0.053238	0.065413	0.054788	0.06098	0.048325

0.067	0.044119	0.045397	0.0492	0.060341	0.05075	0.052028	0.044621
0.044	0.040081	0.037359	0.045162	0.05422	0.046712	0.043989	0.040917
0.036	0.017253	0.040203	0.022334	0.005786	0.023884	0.046834	0.015748
0.034	0.012948	0.024051	0.018028	0.003863	0.019578	0.030682	0.012045
0.035	0.008642	0.008814	0.013722	0.00089	0.015272	0.015444	0.008341
0.034	0.004336	-0.00551	0.009417	-0.00313	0.010967	0.001121	0.004637
0.031	3.05E-05	-0.01892	0.005111	-0.0082	0.006661	-0.01229	0.000934
0.021	-0.00428	-0.03141	0.000805	-0.01433	0.002355	-0.02478	-0.00277
0.227	0.217651	0.184974	0.222732	0.190786	0.211525	0.178848	0.218822
0.226	0.214416	0.18665	0.219496	0.188862	0.20829	0.180524	0.215118
0.226	0.21118	0.18924	0.216261	0.185889	0.205054	0.183114	0.211414
0.226	0.207945	0.192744	0.213025	0.181867	0.201819	0.186618	0.207711
0.225	0.204709	0.197162	0.20979	0.176795	0.198583	0.191036	0.204007
0.193	0.201474	0.202495	0.206554	0.170674	0.195348	0.196369	0.200303
0.195	0.196142	0.180555	0.201223	0.188338	0.190016	0.174429	0.196978
0.195	0.192773	0.180002	0.197853	0.186414	0.186647	0.173876	0.193275
0.195	0.189404	0.180364	0.194484	0.183441	0.183278	0.174238	0.189571
0.191	0.186034	0.18164	0.191115	0.179419	0.179908	0.175514	0.185867
0.189	0.182665	0.183829	0.187745	0.174347	0.176539	0.177703	0.182163
0.173	0.179296	0.186933	0.184376	0.168226	0.17317	0.180807	0.17846
0.166	0.174633	0.17324	0.179713	0.180994	0.168507	0.167114	0.175135
0.168	0.17113	0.170458	0.17621	0.17907	0.165004	0.164332	0.171431
0.168	0.167627	0.168592	0.172707	0.176097	0.161501	0.162466	0.167727
0.167	0.164124	0.167639	0.169204	0.172074	0.157998	0.161513	0.164023
0.161	0.160621	0.1676	0.165701	0.167003	0.154495	0.161474	0.16032
0.141	0.157118	0.168475	0.162198	0.160882	0.150992	0.162349	0.156616
0.141	0.131614	0.14992	0.136695	0.151617	0.125488	0.143794	0.131447
0.141	0.127844	0.142682	0.132924	0.149693	0.121718	0.136556	0.127743
0.142	0.124073	0.136358	0.129154	0.14672	0.117947	0.130232	0.12404
0.143	0.120302	0.130948	0.125383	0.142698	0.114176	0.124822	0.120336
0.137	0.116532	0.126453	0.121612	0.137626	0.110406	0.120327	0.116632
0.126	0.112761	0.122871	0.117842	0.131505	0.106635	0.116745	0.112928
0.124	0.088596	0.115016	0.093676	0.102656	0.08247	0.10889	0.08776
0.124	0.084558	0.103321	0.089638	0.100732	0.078432	0.097195	0.084056
0.123	0.080519	0.09254	0.0856	0.097759	0.074393	0.086414	0.080352
0.123	0.076481	0.082673	0.081562	0.093737	0.070355	0.076547	0.076648
0.115	0.072443	0.073721	0.077524	0.088665	0.066317	0.067595	0.072945
0.101	0.068405	0.065682	0.073485	0.082544	0.062279	0.059556	0.069241
0.084	0.045577	0.068527	0.050658	0.03411	0.039451	0.062401	0.044072
0.083	0.041272	0.052375	0.046352	0.032186	0.035145	0.046249	0.040368
0.083	0.036966	0.037138	0.042046	0.029213	0.03084	0.031012	0.036665
0.082	0.03266	0.022814	0.037741	0.025191	0.026534	0.016688	0.032961
0.079	0.028354	0.009404	0.033435	0.020119	0.022228	0.003278	0.029257
0.047	0.024049	-0.00309	0.029129	0.013998	0.017923	-0.00922	0.025554
0.315	0.274299	0.241622	0.279379	0.247434	0.273794	0.241118	0.27547
0.314	0.271063	0.243298	0.276144	0.24551	0.270559	0.242793	0.271766
0.311	0.267828	0.245888	0.272908	0.242537	0.267324	0.245383	0.268062
0.308	0.264593	0.249392	0.269673	0.238514	0.264088	0.248887	0.264358

0.308	0.261357	0.25381	0.266438	0.233443	0.260853	0.253306	0.260655
0.307	0.258122	0.259142	0.263202	0.227322	0.257617	0.258638	0.256951
0.289	0.25279	0.237203	0.25787	0.244985	0.252285	0.236698	0.253626
0.288	0.24942	0.23665	0.254501	0.243062	0.248916	0.236146	0.249922
0.281	0.246051	0.237012	0.251132	0.240089	0.245547	0.236507	0.246218
0.274	0.242682	0.238287	0.247762	0.236066	0.242177	0.237783	0.242515
0.263	0.239313	0.240477	0.244393	0.230995	0.238808	0.239972	0.238811
0.255	0.235943	0.243581	0.241024	0.224874	0.235439	0.243076	0.235107
0.185	0.23128	0.229887	0.236361	0.237641	0.230776	0.229383	0.231782
0.184	0.227777	0.227106	0.232858	0.235718	0.227273	0.226602	0.228078
0.183	0.224274	0.225239	0.229355	0.232744	0.22377	0.224735	0.224375
0.182	0.220771	0.224286	0.225852	0.228722	0.220267	0.223782	0.220671
0.182	0.217268	0.224248	0.222349	0.22365	0.216764	0.223743	0.216967
0.176	0.213765	0.225123	0.218846	0.217529	0.213261	0.224618	0.213264
0.147	0.188262	0.206568	0.193342	0.208265	0.187757	0.206063	0.188095
0.147	0.184491	0.19933	0.189572	0.206341	0.183987	0.198825	0.184391
0.146	0.180721	0.193006	0.185801	0.203368	0.180216	0.192501	0.180687
0.145	0.17695	0.187596	0.182031	0.199345	0.176446	0.187092	0.176984
0.141	0.173179	0.1831	0.17826	0.194274	0.172675	0.182596	0.17328
0.139	0.169409	0.179519	0.174489	0.188153	0.168904	0.179014	0.169576
0.114	0.145243	0.171664	0.150324	0.159303	0.144739	0.171159	0.144407
0.114	0.141205	0.159969	0.146286	0.15738	0.140701	0.159464	0.140704
0.113	0.137167	0.149188	0.142248	0.154407	0.136663	0.148683	0.137
0.113	0.133129	0.139321	0.138209	0.150384	0.132624	0.138817	0.133296
0.111	0.129091	0.130368	0.134171	0.145313	0.128586	0.129864	0.129592
0.101	0.125053	0.12233	0.130133	0.139191	0.124548	0.121825	0.125889
0.088	0.102225	0.125175	0.107305	0.090758	0.10172	0.12467	0.10072
0.079	0.097919	0.109023	0.103	0.088834	0.097415	0.108518	0.097016
0.082	0.093613	0.093785	0.098694	0.085861	0.093109	0.093281	0.093312
0.083	0.089308	0.079462	0.094388	0.081839	0.088803	0.078957	0.089609
0.081	0.085002	0.066052	0.090082	0.076767	0.084497	0.065548	0.085905
0.059	0.080696	0.053557	0.085777	0.070646	0.080192	0.053052	0.082201
0.151	0.176674	0.143997	0.172994	0.149808	0.183304	0.150627	0.177844
0.147	0.173438	0.145673	0.169759	0.147885	0.180069	0.152303	0.174141
0.149	0.170203	0.148263	0.166524	0.144912	0.176833	0.154893	0.170437
0.146	0.166967	0.151767	0.163288	0.140889	0.173598	0.158397	0.166733
0.148	0.163732	0.156185	0.160053	0.135817	0.170362	0.162815	0.163029
0.141	0.160496	0.161517	0.156817	0.129696	0.167127	0.168148	0.159326
0.119	0.155164	0.139577	0.151485	0.14736	0.161795	0.146208	0.156001
0.115	0.151795	0.139025	0.148116	0.145437	0.158426	0.145655	0.152297
0.114	0.148426	0.139386	0.144747	0.142463	0.155056	0.146017	0.148593
0.107	0.145057	0.140662	0.141377	0.138441	0.151687	0.147292	0.144889
0.108	0.141687	0.142852	0.138008	0.133369	0.148318	0.149482	0.141186
0.091	0.138318	0.145955	0.134639	0.127248	0.144949	0.152586	0.137482
0.095	0.133655	0.132262	0.129976	0.140016	0.140286	0.138892	0.134157
0.088	0.130152	0.129481	0.126473	0.138092	0.136783	0.136111	0.130453
0.087	0.126649	0.127614	0.12297	0.135119	0.13328	0.134244	0.126749
0.085	0.123146	0.126661	0.119467	0.131097	0.129777	0.133292	0.123046

0.084	0.119643	0.126622	0.115964	0.126025	0.126274	0.133253	0.119342
0.071	0.11614	0.127498	0.112461	0.119904	0.12277	0.134128	0.115638
0.069	0.090637	0.108942	0.086957	0.110639	0.097267	0.115573	0.090469
0.062	0.086866	0.101704	0.083187	0.108716	0.093497	0.108335	0.086766
0.061	0.083095	0.095381	0.079416	0.105743	0.089726	0.102011	0.083062
0.063	0.079325	0.089971	0.075646	0.10172	0.085955	0.096601	0.079358
0.059	0.075554	0.085475	0.071875	0.096648	0.082185	0.092106	0.075655
0.052	0.071784	0.081894	0.068104	0.090527	0.078414	0.088524	0.071951
0.046	0.047618	0.074038	0.043939	0.061678	0.054249	0.080669	0.046782
0.044	0.04358	0.062343	0.039901	0.059754	0.05021	0.068974	0.043078
0.043	0.039542	0.051563	0.035863	0.056781	0.046172	0.058193	0.039375
0.043	0.035504	0.041696	0.031824	0.052759	0.042134	0.048326	0.035671
0.042	0.031465	0.032743	0.027786	0.047687	0.038096	0.039374	0.031967
0.033	0.027427	0.024705	0.023748	0.041566	0.034058	0.031335	0.028263
0.029	0.0046	0.02755	0.00092	-0.00687	0.01123	0.03418	0.003095
0.021	0.000294	0.011398	-0.00339	-0.00879	0.006924	0.018028	-0.00061
0.021	-0.00401	-0.00384	-0.00769	-0.01176	0.002619	0.00279	-0.00431
0.021	-0.00832	-0.01816	-0.012	-0.01579	-0.00169	-0.01153	-0.00802
0.014	-0.01262	-0.03157	-0.0163	-0.02086	-0.00599	-0.02494	-0.01172
0.007	-0.01693	-0.04407	-0.02061	-0.02698	-0.0103	-0.03744	-0.01542
0.223	0.204998	0.172321	0.201318	0.178132	0.198872	0.166195	0.206168
0.221	0.201762	0.173997	0.198083	0.176208	0.195636	0.16787	0.202464
0.222	0.198527	0.176586	0.194847	0.173235	0.192401	0.17046	0.198761
0.223	0.195291	0.180091	0.191612	0.169213	0.189165	0.173965	0.195057
0.219	0.192056	0.184509	0.188376	0.164141	0.18593	0.178383	0.191353
0.208	0.18882	0.189841	0.185141	0.15802	0.182694	0.183715	0.18765
0.177	0.183488	0.167901	0.179809	0.175684	0.177362	0.161775	0.184324
0.181	0.180119	0.167349	0.17644	0.17376	0.173993	0.161223	0.180621
0.176	0.17675	0.16771	0.173071	0.170787	0.170624	0.161584	0.176917
0.175	0.173381	0.168986	0.169701	0.166765	0.167254	0.16286	0.173213
0.174	0.170011	0.171175	0.166332	0.161693	0.163885	0.165049	0.16951
0.161	0.166642	0.174279	0.162963	0.155572	0.160516	0.168153	0.165806
0.134	0.161979	0.160586	0.1583	0.16834	0.155853	0.15446	0.162481
0.131	0.158476	0.157805	0.154797	0.166416	0.15235	0.151679	0.158777
0.131	0.154973	0.155938	0.151294	0.163443	0.148847	0.149812	0.155073
0.129	0.15147	0.154985	0.147791	0.159421	0.145344	0.148859	0.15137
0.136	0.147967	0.154946	0.144288	0.154349	0.141841	0.14882	0.147666
0.111	0.144464	0.155821	0.140785	0.148228	0.138338	0.149695	0.143962
0.105	0.118961	0.137266	0.115281	0.138963	0.112834	0.13114	0.118793
0.109	0.11519	0.130028	0.111511	0.137039	0.109064	0.123902	0.11509
0.105	0.111419	0.123704	0.10774	0.134066	0.105293	0.117578	0.111386
0.103	0.107649	0.118295	0.103969	0.130044	0.101523	0.112169	0.107682
0.101	0.103878	0.113799	0.100199	0.124972	0.097752	0.107673	0.103978
0.094	0.100107	0.110217	0.096428	0.118851	0.093981	0.104091	0.100275
0.077	0.075942	0.102362	0.072263	0.090002	0.069816	0.096236	0.075106
0.069	0.071904	0.090667	0.068225	0.088078	0.065778	0.084541	0.071402
0.072	0.067866	0.079886	0.064186	0.085105	0.06174	0.07376	0.067698
0.071	0.063827	0.07002	0.060148	0.081083	0.057701	0.063894	0.063995

0.07	0.059789	0.061067	0.05611	0.076011	0.053663	0.054941	0.060291
0.055	0.055751	0.053029	0.052072	0.06989	0.049625	0.046903	0.056587
0.028	0.032923	0.055873	0.029244	0.021456	0.026797	0.049747	0.031418
0.031	0.028618	0.039722	0.024938	0.019533	0.022492	0.033595	0.027715
0.024	0.024312	0.024484	0.020633	0.01656	0.018186	0.018358	0.024011
0.023	0.020006	0.01016	0.016327	0.012537	0.01388	0.004034	0.020307
0.019	0.015701	-0.00325	0.012021	0.007465	0.009574	-0.00938	0.016604
0.011	0.011395	-0.01574	0.007716	0.001344	0.005269	-0.02187	0.0129
0.331	0.261645	0.228968	0.257966	0.23478	0.261141	0.228464	0.262816
0.324	0.25841	0.230644	0.25473	0.232856	0.257905	0.23014	0.259112
0.325	0.255174	0.233234	0.251495	0.229883	0.25467	0.23273	0.255408
0.321	0.251939	0.236738	0.248259	0.225861	0.251434	0.236234	0.251705
0.323	0.248703	0.241156	0.245024	0.220789	0.248199	0.240652	0.248001
0.318	0.245468	0.246489	0.241789	0.214668	0.244963	0.245984	0.244297
0.291	0.240136	0.224549	0.236457	0.232332	0.239631	0.224044	0.240972
0.286	0.236767	0.223996	0.233087	0.230408	0.236262	0.223492	0.237268
0.284	0.233397	0.224358	0.229718	0.227435	0.232893	0.223853	0.233565
0.281	0.230028	0.225633	0.226349	0.223412	0.229524	0.225129	0.229861
0.275	0.226659	0.227823	0.22298	0.218341	0.226154	0.227319	0.226157
0.264	0.22329	0.230927	0.21961	0.21222	0.222785	0.230422	0.222453
0.171	0.218627	0.217233	0.214947	0.224988	0.218122	0.216729	0.219128
0.159	0.215124	0.214452	0.211444	0.223064	0.214619	0.213948	0.215425
0.155	0.211621	0.212585	0.207941	0.220091	0.211116	0.212081	0.211721
0.157	0.208118	0.211632	0.204438	0.216068	0.207613	0.211128	0.208017
0.151	0.204614	0.211594	0.200935	0.210997	0.20411	0.211089	0.204313
0.146	0.201111	0.212469	0.197432	0.204876	0.200607	0.211965	0.20061
0.127	0.175608	0.193914	0.171929	0.195611	0.175104	0.193409	0.175441
0.119	0.171838	0.186676	0.168158	0.193687	0.171333	0.186171	0.171737
0.121	0.168067	0.180352	0.164388	0.190714	0.167562	0.179848	0.168033
0.117	0.164296	0.174942	0.160617	0.186692	0.163792	0.174438	0.16433
0.111	0.160526	0.170447	0.156846	0.18162	0.160021	0.169942	0.160626
0.102	0.156755	0.166865	0.153076	0.175499	0.156251	0.16636	0.156922
0.091	0.13259	0.15901	0.12891	0.14665	0.132085	0.158505	0.131753
0.075	0.128551	0.147315	0.124872	0.144726	0.128047	0.14681	0.12805
0.079	0.124513	0.136534	0.120834	0.141753	0.124009	0.13603	0.124346
0.077	0.120475	0.126667	0.116796	0.13773	0.119971	0.126163	0.120642
0.076	0.116437	0.117715	0.112758	0.132659	0.115932	0.11721	0.116939
0.061	0.112399	0.109676	0.108719	0.126538	0.111894	0.109172	0.113235
0.042	0.089571	0.112521	0.085892	0.078104	0.089067	0.112016	0.088066
0.036	0.085265	0.096369	0.081586	0.07618	0.084761	0.095865	0.084362
0.033	0.08096	0.081131	0.07728	0.073207	0.080455	0.080627	0.080659
0.029	0.076654	0.066808	0.072975	0.069185	0.076149	0.066303	0.076955
0.029	0.072348	0.053398	0.068669	0.064113	0.071844	0.052894	0.073251
0.011	0.068042	0.040903	0.064363	0.057992	0.067538	0.040398	0.069547
0.151	0.212442	0.179765	0.210714	0.185576	0.219072	0.186395	0.213612
0.156	0.209206	0.181441	0.207478	0.183653	0.215837	0.188071	0.209909
0.162	0.205971	0.184031	0.204243	0.180679	0.212601	0.190661	0.206205
0.161	0.202735	0.187535	0.201008	0.176657	0.209366	0.194165	0.202501

0.157	0.1995	0.191953	0.197772	0.171585	0.20613	0.198583	0.198797
0.159	0.196264	0.197285	0.194537	0.165464	0.202895	0.203916	0.195094
0.145	0.190932	0.175345	0.189205	0.183128	0.197563	0.181976	0.191769
0.143	0.187563	0.174793	0.185835	0.181205	0.194194	0.181423	0.188065
0.145	0.184194	0.175154	0.182466	0.178231	0.190824	0.181785	0.184361
0.148	0.180825	0.17643	0.179097	0.174209	0.187455	0.18306	0.180657
0.141	0.177455	0.17862	0.175728	0.169137	0.184086	0.18525	0.176954
0.142	0.174086	0.181723	0.172358	0.163016	0.180717	0.188354	0.17325
0.119	0.169423	0.16803	0.167695	0.175784	0.176054	0.17466	0.169925
0.123	0.16592	0.165249	0.164192	0.17386	0.172551	0.171879	0.166221
0.125	0.162417	0.163382	0.160689	0.170887	0.169048	0.170012	0.162517
0.118	0.158914	0.162429	0.157186	0.166865	0.165545	0.16906	0.158814
0.121	0.155411	0.16239	0.153683	0.161793	0.162042	0.169021	0.15511
0.117	0.151908	0.163266	0.15018	0.155672	0.158538	0.169896	0.151406
0.105	0.126405	0.14471	0.124677	0.146407	0.133035	0.151341	0.126237
0.093	0.122634	0.137472	0.120906	0.144484	0.129265	0.144103	0.122534
0.095	0.118863	0.131149	0.117136	0.141511	0.125494	0.137779	0.11883
0.098	0.115093	0.125739	0.113365	0.137488	0.121723	0.132369	0.115126
0.091	0.111322	0.121243	0.109594	0.132416	0.117953	0.127874	0.111423
0.074	0.107552	0.117661	0.105824	0.126295	0.114182	0.124292	0.107719
0.068	0.083386	0.109806	0.081658	0.097446	0.090017	0.116437	0.08255
0.072	0.079348	0.098111	0.07762	0.095522	0.085978	0.104742	0.078846
0.071	0.07531	0.087331	0.073582	0.092549	0.08194	0.093961	0.075143
0.066	0.071272	0.077464	0.069544	0.088527	0.077902	0.084094	0.071439
0.061	0.067233	0.068511	0.065506	0.083455	0.073864	0.075142	0.067735
0.052	0.063195	0.060473	0.061468	0.077334	0.069826	0.067103	0.064031
0.044	0.040368	0.063318	0.03864	0.028901	0.046998	0.069948	0.038863
0.049	0.036062	0.047166	0.034334	0.026977	0.042692	0.053796	0.035159
0.051	0.031756	0.031928	0.030028	0.024004	0.038387	0.038558	0.031455
0.044	0.02745	0.017604	0.025723	0.019981	0.034081	0.024235	0.027751
0.046	0.023145	0.004195	0.021417	0.01491	0.029775	0.010825	0.024048
0.021	0.018839	-0.0083	0.017111	0.008789	0.025469	-0.00167	0.020344
0.237	0.240766	0.208089	0.239038	0.2139	0.23464	0.201963	0.241936
0.239	0.23753	0.209764	0.235802	0.211976	0.231404	0.203638	0.238232
0.239	0.234295	0.212354	0.232567	0.209003	0.228169	0.206228	0.234529
0.241	0.231059	0.215859	0.229331	0.204981	0.224933	0.209732	0.230825
0.233	0.227824	0.220277	0.226096	0.199909	0.221698	0.214151	0.227121
0.212	0.224588	0.225609	0.22286	0.193788	0.218462	0.219483	0.223418
0.216	0.219256	0.203669	0.217529	0.211452	0.21313	0.197543	0.220092
0.215	0.215887	0.203117	0.214159	0.209528	0.209761	0.196991	0.216389
0.214	0.212518	0.203478	0.21079	0.206555	0.206392	0.197352	0.212685
0.214	0.209148	0.204754	0.207421	0.202533	0.203022	0.198628	0.208981
0.208	0.205779	0.206943	0.204051	0.197461	0.199653	0.200817	0.205278
0.166	0.20241	0.210047	0.200682	0.19134	0.196284	0.203921	0.201574
0.171	0.197747	0.196354	0.196019	0.204108	0.191621	0.190228	0.198249
0.172	0.194244	0.193573	0.192516	0.202184	0.188118	0.187447	0.194545
0.173	0.190741	0.191706	0.189013	0.199211	0.184615	0.18558	0.190841
0.172	0.187238	0.190753	0.18551	0.195189	0.181112	0.184627	0.187138

0.169	0.183735	0.190714	0.182007	0.190117	0.177609	0.184588	0.183434
0.144	0.180232	0.191589	0.178504	0.183996	0.174106	0.185463	0.17973
0.147	0.154728	0.173034	0.153001	0.174731	0.148602	0.166908	0.154561
0.151	0.150958	0.165796	0.14923	0.172807	0.144832	0.15967	0.150858
0.144	0.147187	0.159472	0.14546	0.169834	0.141061	0.153346	0.147154
0.148	0.143417	0.154063	0.141689	0.165812	0.137291	0.147937	0.14345
0.141	0.139646	0.149567	0.137918	0.16074	0.13352	0.143441	0.139746
0.119	0.135875	0.145985	0.134148	0.154619	0.129749	0.139859	0.136043
0.126	0.11171	0.13813	0.109982	0.12577	0.105584	0.132004	0.110874
0.124	0.107672	0.126435	0.105944	0.123846	0.101546	0.120309	0.10717
0.123	0.103634	0.115654	0.101906	0.120873	0.097508	0.109528	0.103466
0.123	0.099595	0.105788	0.097868	0.116851	0.093469	0.099662	0.099763
0.116	0.095557	0.096835	0.09383	0.111779	0.089431	0.090709	0.096059
0.088	0.091519	0.088797	0.089791	0.105658	0.085393	0.082671	0.092355
0.089	0.068691	0.091641	0.066964	0.057224	0.062565	0.085515	0.067186
0.087	0.064386	0.075489	0.062658	0.055301	0.05826	0.069363	0.063483
0.089	0.06008	0.060252	0.058352	0.052328	0.053954	0.054126	0.059779
0.082	0.055774	0.045928	0.054046	0.048305	0.049648	0.039802	0.056075
0.079	0.051468	0.032519	0.049741	0.043233	0.045342	0.026393	0.052372
0.043	0.047163	0.020023	0.045435	0.037112	0.041037	0.013897	0.048668
0.326	0.297413	0.264736	0.295685	0.270548	0.296909	0.264232	0.298584
0.327	0.294178	0.266412	0.29245	0.268624	0.293673	0.265908	0.29488
0.325	0.290942	0.269002	0.289214	0.265651	0.290438	0.268498	0.291176
0.333	0.287707	0.272506	0.285979	0.261629	0.287202	0.272002	0.287473
0.329	0.284471	0.276924	0.282743	0.256557	0.283967	0.27642	0.283769
0.299	0.281236	0.282257	0.279508	0.250436	0.280731	0.281752	0.280065
0.301	0.275904	0.260317	0.274176	0.2681	0.275399	0.259812	0.27674
0.305	0.272535	0.259764	0.270807	0.266176	0.27203	0.25926	0.273036
0.299	0.269165	0.260126	0.267438	0.263203	0.268661	0.259621	0.269333
0.298	0.265796	0.261401	0.264068	0.25918	0.265292	0.260897	0.265629
0.295	0.262427	0.263591	0.260699	0.254109	0.261922	0.263087	0.261925
0.246	0.259058	0.266695	0.25733	0.247988	0.258553	0.26619	0.258221
0.249	0.254395	0.253001	0.252667	0.260756	0.25389	0.252497	0.254896
0.251	0.250892	0.25022	0.249164	0.258832	0.250387	0.249716	0.251193
0.252	0.247389	0.248353	0.245661	0.255859	0.246884	0.247849	0.247489
0.247	0.243886	0.2474	0.242158	0.251836	0.243381	0.246896	0.243785
0.246	0.240382	0.247362	0.238655	0.246765	0.239878	0.246857	0.240081
0.165	0.236879	0.248237	0.235152	0.240644	0.236375	0.247733	0.236378
0.159	0.211376	0.229682	0.209648	0.231379	0.210872	0.229177	0.211209
0.162	0.207606	0.222444	0.205878	0.229455	0.207101	0.221939	0.207505
0.163	0.203835	0.21612	0.202107	0.226482	0.20333	0.215616	0.203801
0.161	0.200064	0.21071	0.198337	0.22246	0.19956	0.210206	0.200098
0.166	0.196294	0.206215	0.194566	0.217388	0.195789	0.20571	0.196394
0.148	0.192523	0.202633	0.190795	0.211267	0.192019	0.202128	0.19269
0.122	0.168358	0.194778	0.16663	0.182418	0.167853	0.194273	0.167521
0.123	0.164319	0.183083	0.162592	0.180494	0.163815	0.182578	0.163818
0.121	0.160281	0.172302	0.158553	0.177521	0.159777	0.171798	0.160114
0.119	0.156243	0.162435	0.154515	0.173498	0.155739	0.161931	0.15641

0.123	0.152205	0.153483	0.150477	0.168427	0.1517	0.152978	0.152707
0.088	0.148167	0.145444	0.146439	0.162306	0.147662	0.14494	0.149003
0.079	0.125339	0.148289	0.123611	0.113872	0.124835	0.147784	0.123834
0.075	0.121033	0.132137	0.119306	0.111948	0.120529	0.131633	0.12013
0.073	0.116728	0.116899	0.115	0.108975	0.116223	0.116395	0.116427
0.074	0.112422	0.102576	0.110694	0.104953	0.111917	0.102071	0.112723
0.069	0.108116	0.089166	0.106388	0.099881	0.107612	0.088662	0.109019
0.045	0.10381	0.076671	0.102083	0.09376	0.103306	0.076166	0.105315
0.167	0.193461	0.160784	0.198669	0.166596	0.200092	0.167415	0.194632
0.163	0.190226	0.16246	0.195433	0.164672	0.196856	0.169091	0.190928
0.165	0.18699	0.16505	0.192198	0.161699	0.193621	0.17168	0.187224
0.165	0.183755	0.168554	0.188962	0.157676	0.190385	0.175185	0.18352
0.159	0.180519	0.172972	0.185727	0.152605	0.18715	0.179603	0.179817
0.159	0.177284	0.178304	0.182491	0.146484	0.183914	0.184935	0.176113
0.151	0.171952	0.156365	0.17716	0.164148	0.178582	0.162995	0.172788
0.148	0.168583	0.155812	0.17379	0.162224	0.175213	0.162443	0.169084
0.151	0.165213	0.156174	0.170421	0.159251	0.171844	0.162804	0.16538
0.148	0.161844	0.157449	0.167052	0.155228	0.168475	0.16408	0.161677
0.149	0.158475	0.159639	0.163683	0.150157	0.165105	0.166269	0.157973
0.135	0.155105	0.162743	0.160313	0.144036	0.161736	0.169373	0.154269
0.12	0.150443	0.149049	0.15565	0.156803	0.157073	0.15568	0.150944
0.121	0.146939	0.146268	0.152147	0.15488	0.15357	0.152899	0.14724
0.121	0.143436	0.144401	0.148644	0.151907	0.150067	0.151032	0.143537
0.122	0.139933	0.143448	0.145141	0.147884	0.146564	0.150079	0.139833
0.119	0.13643	0.14341	0.141638	0.142812	0.143061	0.15004	0.136129
0.103	0.132927	0.144285	0.138135	0.136691	0.139558	0.150915	0.132426
0.095	0.107424	0.12573	0.112632	0.127427	0.114055	0.13236	0.107257
0.094	0.103653	0.118492	0.108861	0.125503	0.110284	0.125122	0.103553
0.093	0.099883	0.112168	0.105091	0.12253	0.106513	0.118798	0.099849
0.094	0.096112	0.106758	0.10132	0.118507	0.102743	0.113389	0.096146
0.093	0.092342	0.102262	0.097549	0.113436	0.098972	0.108893	0.092442
0.071	0.088571	0.098681	0.093779	0.107315	0.095201	0.105311	0.088738
0.071	0.064405	0.090826	0.069613	0.078466	0.071036	0.097456	0.063569
0.069	0.060367	0.079131	0.065575	0.076542	0.066998	0.085761	0.059866
0.068	0.056329	0.06835	0.061537	0.073569	0.06296	0.07498	0.056162
0.065	0.052291	0.058483	0.057499	0.069546	0.058921	0.065114	0.052458
0.061	0.048253	0.049531	0.053461	0.064475	0.054883	0.056161	0.048754
0.045	0.044215	0.041492	0.049422	0.058354	0.050845	0.048123	0.045051
0.031	0.021387	0.044337	0.026595	0.00992	0.028017	0.050967	0.019882
0.035	0.017081	0.028185	0.022289	0.007996	0.023712	0.034816	0.016178
0.031	0.012775	0.012947	0.017983	0.005023	0.019406	0.019578	0.012474
0.032	0.00847	-0.00138	0.013678	0.001001	0.0151	0.005254	0.008771
0.029	0.004164	-0.01479	0.009372	-0.00407	0.010795	-0.00816	0.005067
0.022	-0.00014	-0.02728	0.005066	-0.01019	0.006489	-0.02065	0.001363
0.228	0.221785	0.189108	0.226993	0.194919	0.215659	0.182982	0.222955
0.226	0.218549	0.190784	0.223757	0.192996	0.212423	0.184658	0.219252
0.227	0.215314	0.193374	0.220522	0.190023	0.209188	0.187248	0.215548
0.225	0.212078	0.196878	0.217286	0.186	0.205952	0.190752	0.211844

0.228	0.208843	0.201296	0.214051	0.180929	0.202717	0.19517	0.208141
0.205	0.205607	0.206628	0.210815	0.174808	0.199481	0.200502	0.204437
0.197	0.200276	0.184689	0.205483	0.192471	0.19415	0.178563	0.201112
0.201	0.196906	0.184136	0.202114	0.190548	0.19078	0.17801	0.197408
0.201	0.193537	0.184497	0.198745	0.187575	0.187411	0.178371	0.193704
0.2	0.190168	0.185773	0.195376	0.183552	0.184042	0.179647	0.190001
0.191	0.186799	0.187963	0.192006	0.17848	0.180673	0.181837	0.186297
0.183	0.183429	0.191067	0.188637	0.172359	0.177303	0.184941	0.182593
0.161	0.178766	0.177373	0.183974	0.185127	0.17264	0.171247	0.179268
0.161	0.175263	0.174592	0.180471	0.183203	0.169137	0.168466	0.175564
0.171	0.17176	0.172725	0.176968	0.18023	0.165634	0.166599	0.171861
0.172	0.168257	0.171772	0.173465	0.176208	0.162131	0.165646	0.168157
0.155	0.164754	0.171733	0.169962	0.171136	0.158628	0.165607	0.164453
0.136	0.161251	0.172609	0.166459	0.165015	0.155125	0.166483	0.160749
0.146	0.135748	0.154054	0.140956	0.155751	0.129622	0.147928	0.135581
0.141	0.131977	0.146816	0.137185	0.153827	0.125851	0.14069	0.131877
0.139	0.128207	0.140492	0.133414	0.150854	0.122081	0.134366	0.128173
0.141	0.124436	0.135082	0.129644	0.146831	0.11831	0.128956	0.124469
0.138	0.120665	0.130586	0.125873	0.14176	0.114539	0.12446	0.120766
0.116	0.116895	0.127005	0.122103	0.135639	0.110769	0.120879	0.117062
0.124	0.092729	0.119149	0.097937	0.106789	0.086603	0.113023	0.091893
0.126	0.088691	0.107455	0.093899	0.104866	0.082565	0.101328	0.088189
0.128	0.084653	0.096674	0.089861	0.101892	0.078527	0.090548	0.084486
0.129	0.080615	0.086807	0.085823	0.09787	0.074489	0.080681	0.080782
0.121	0.076577	0.077854	0.081784	0.092798	0.070451	0.071728	0.077078
0.087	0.072538	0.069816	0.077746	0.086677	0.066412	0.06369	0.073375
0.075	0.049711	0.072661	0.054919	0.038244	0.043585	0.066535	0.048206
0.071	0.045405	0.056509	0.050613	0.03632	0.039279	0.050383	0.044502
0.069	0.041099	0.041271	0.046307	0.033347	0.034973	0.035145	0.040798
0.075	0.036794	0.026947	0.042001	0.029324	0.030668	0.020821	0.037095
0.073	0.032488	0.013538	0.037696	0.024253	0.026362	0.007412	0.033391
0.048	0.028182	0.001042	0.03339	0.018132	0.022056	-0.00508	0.029687
0.315	0.278432	0.245756	0.28364	0.251567	0.277928	0.245251	0.279603
0.325	0.275197	0.247431	0.280405	0.249643	0.274693	0.246927	0.275899
0.328	0.271962	0.250021	0.277169	0.24667	0.271457	0.249517	0.272196
0.331	0.268726	0.253525	0.273934	0.242648	0.268222	0.253021	0.268492
0.328	0.265491	0.257944	0.270698	0.237576	0.264986	0.257439	0.264788
0.318	0.262255	0.263276	0.267463	0.231455	0.261751	0.262771	0.261084
0.285	0.256923	0.241336	0.262131	0.249119	0.256419	0.240832	0.257759
0.287	0.253554	0.240784	0.258762	0.247195	0.253049	0.240279	0.254056
0.288	0.250185	0.241145	0.255393	0.244222	0.24968	0.240641	0.250352
0.284	0.246815	0.242421	0.252023	0.2402	0.246311	0.241916	0.246648
0.281	0.243446	0.24461	0.248654	0.235128	0.242942	0.244106	0.242944
0.245	0.240077	0.247714	0.245285	0.229007	0.239572	0.24721	0.239241
0.201	0.235414	0.234021	0.240622	0.241775	0.234909	0.233516	0.235916
0.205	0.231911	0.23124	0.237119	0.239851	0.231406	0.230735	0.232212
0.209	0.228408	0.229373	0.233616	0.236878	0.227903	0.228868	0.228508
0.205	0.224905	0.22842	0.230113	0.232856	0.2244	0.227915	0.224804

0.204	0.221402	0.228381	0.22661	0.227784	0.220897	0.227877	0.221101
0.175	0.217899	0.229256	0.223107	0.221663	0.217394	0.228752	0.217397
0.151	0.192395	0.210701	0.197603	0.212398	0.191891	0.210197	0.192228
0.149	0.188625	0.203463	0.193833	0.210474	0.18812	0.202959	0.188524
0.148	0.184854	0.197139	0.190062	0.207501	0.18435	0.196635	0.184821
0.145	0.181084	0.19173	0.186291	0.203479	0.180579	0.191225	0.181117
0.146	0.177313	0.187234	0.182521	0.198407	0.176809	0.186729	0.177413
0.133	0.173542	0.183652	0.17875	0.192286	0.173038	0.183148	0.17371
0.112	0.149377	0.175797	0.154585	0.163437	0.148872	0.175293	0.148541
0.111	0.145339	0.164102	0.150547	0.161513	0.144834	0.163598	0.144837
0.112	0.141301	0.153321	0.146508	0.15854	0.140796	0.152817	0.141133
0.115	0.137262	0.143455	0.14247	0.154518	0.136758	0.14295	0.13743
0.114	0.133224	0.134502	0.138432	0.149446	0.13272	0.133998	0.133726
0.092	0.129186	0.126463	0.134394	0.143325	0.128682	0.125959	0.130022
0.068	0.106358	0.129308	0.111566	0.094891	0.105854	0.128804	0.104853
0.071	0.102053	0.113156	0.10726	0.092968	0.101548	0.112652	0.10115
0.07	0.097747	0.097919	0.102955	0.089994	0.097242	0.097414	0.097446
0.072	0.093441	0.083595	0.098649	0.085972	0.092937	0.083091	0.093742
0.068	0.089135	0.070186	0.094343	0.0809	0.088631	0.069681	0.090038
0.059	0.08483	0.05769	0.090038	0.074779	0.084325	0.057186	0.086335
0.157	0.180807	0.14813	0.177255	0.153942	0.187438	0.154761	0.181978
0.156	0.177572	0.149806	0.17402	0.152018	0.184202	0.156437	0.178274
0.155	0.174336	0.152396	0.170784	0.149045	0.180967	0.159027	0.17457
0.154	0.171101	0.1559	0.167549	0.145023	0.177731	0.162531	0.170867
0.157	0.167865	0.160318	0.164313	0.139951	0.174496	0.166949	0.167163
0.141	0.16463	0.165651	0.161078	0.13383	0.17126	0.172281	0.163459
0.116	0.159298	0.143711	0.155746	0.151494	0.165929	0.150342	0.160134
0.117	0.155929	0.143158	0.152377	0.14957	0.162559	0.149789	0.15643
0.115	0.152559	0.14352	0.149008	0.146597	0.15919	0.15015	0.152727
0.113	0.14919	0.144795	0.145638	0.142575	0.155821	0.151426	0.149023
0.114	0.145821	0.146985	0.142269	0.137503	0.152451	0.153616	0.145319
0.091	0.142452	0.150089	0.1389	0.131382	0.149082	0.156719	0.141616
0.093	0.137789	0.136395	0.134237	0.14415	0.144419	0.143026	0.13829
0.091	0.134286	0.133614	0.130734	0.142226	0.140916	0.140245	0.134587
0.092	0.130783	0.131747	0.127231	0.139253	0.137413	0.138378	0.130883
0.091	0.12728	0.130795	0.123728	0.13523	0.13391	0.137425	0.127179
0.086	0.123777	0.130756	0.120225	0.130159	0.130407	0.137386	0.123476
0.066	0.120274	0.131631	0.116722	0.124038	0.126904	0.138262	0.119772
0.063	0.09477	0.113076	0.091218	0.114773	0.101401	0.119706	0.094603
0.065	0.091	0.105838	0.087448	0.112849	0.09763	0.112468	0.090899
0.065	0.087229	0.099514	0.083677	0.109876	0.09386	0.106145	0.087196
0.066	0.083458	0.094104	0.079906	0.105854	0.090089	0.100735	0.083492
0.059	0.079688	0.089609	0.076136	0.100782	0.086318	0.096239	0.079788
0.051	0.075917	0.086027	0.072365	0.094661	0.082548	0.092658	0.076084
0.041	0.051752	0.078172	0.0482	0.065812	0.058382	0.084802	0.050916
0.039	0.047714	0.066477	0.044162	0.063888	0.054344	0.073107	0.047212
0.04	0.043675	0.055696	0.040123	0.060915	0.050306	0.062327	0.043508
0.038	0.039637	0.045829	0.036085	0.056893	0.046268	0.05246	0.039804

0.037	0.035599	0.036877	0.032047	0.051821	0.04223	0.043507	0.036101
0.029	0.031561	0.028838	0.028009	0.0457	0.038191	0.035469	0.032397
0.021	0.008733	0.031683	0.005181	-0.00273	0.015364	0.038314	0.007228
0.019	0.004427	0.015531	0.000876	-0.00466	0.011058	0.022162	0.003524
0.022	0.000122	0.000293	-0.00343	-0.00763	0.006752	0.006924	-0.00018
0.018	-0.00418	-0.01403	-0.00774	-0.01165	0.002446	-0.0074	-0.00388
0.016	-0.00849	-0.02744	-0.01204	-0.01672	-0.00186	-0.02081	-0.00759
0.007	-0.0128	-0.03994	-0.01635	-0.02285	-0.00617	-0.0333	-0.01129
0.218	0.209131	0.176454	0.205579	0.182266	0.203005	0.170328	0.210302
0.223	0.205896	0.17813	0.202344	0.180342	0.19977	0.172004	0.206598
0.223	0.20266	0.18072	0.199108	0.177369	0.196534	0.174594	0.202894
0.224	0.199425	0.184224	0.195873	0.173346	0.193299	0.178098	0.199191
0.225	0.196189	0.188642	0.192637	0.168275	0.190063	0.182516	0.195487
0.206	0.192954	0.193974	0.189402	0.162154	0.186828	0.187848	0.191783
0.175	0.187622	0.172035	0.18407	0.179818	0.181496	0.165909	0.188458
0.176	0.184253	0.171482	0.180701	0.177894	0.178127	0.165356	0.184754
0.177	0.180883	0.171844	0.177331	0.174921	0.174757	0.165718	0.181051
0.175	0.177514	0.173119	0.173962	0.170898	0.171388	0.166993	0.177347
0.171	0.174145	0.175309	0.170593	0.165827	0.168019	0.169183	0.173643
0.155	0.170775	0.178413	0.167224	0.159706	0.164649	0.172287	0.169939
0.136	0.166113	0.164719	0.162561	0.172473	0.159987	0.158593	0.166614
0.137	0.16261	0.161938	0.159058	0.17055	0.156483	0.155812	0.162911
0.138	0.159106	0.160071	0.155555	0.167577	0.15298	0.153945	0.159207
0.141	0.155603	0.159118	0.152051	0.163554	0.149477	0.152992	0.155503
0.135	0.1521	0.15908	0.148548	0.158483	0.145974	0.152954	0.151799
0.101	0.148597	0.159955	0.145045	0.152361	0.142471	0.153829	0.148096
0.109	0.123094	0.1414	0.119542	0.143097	0.116968	0.135274	0.122927
0.111	0.119323	0.134162	0.115771	0.141173	0.113197	0.128036	0.119223
0.112	0.115553	0.127838	0.112001	0.1382	0.109427	0.121712	0.115519
0.113	0.111782	0.122428	0.10823	0.134178	0.105656	0.116302	0.111816
0.107	0.108012	0.117932	0.10446	0.129106	0.101886	0.111806	0.108112
0.083	0.104241	0.114351	0.100689	0.122985	0.098115	0.108225	0.104408
0.081	0.080076	0.106496	0.076524	0.094136	0.073949	0.10037	0.079239
0.08	0.076037	0.094801	0.072485	0.092212	0.069911	0.088675	0.075536
0.079	0.071999	0.08402	0.068447	0.089239	0.065873	0.077894	0.071832
0.071	0.067961	0.074153	0.064409	0.085216	0.061835	0.068027	0.068128
0.075	0.063923	0.065201	0.060371	0.080145	0.057797	0.059075	0.064424
0.044	0.059885	0.057162	0.056333	0.074024	0.053759	0.051036	0.060721
0.036	0.037057	0.060007	0.033505	0.02559	0.030931	0.053881	0.035552
0.037	0.032751	0.043855	0.029199	0.023666	0.026625	0.037729	0.031848
0.034	0.028446	0.028617	0.024894	0.020693	0.022319	0.022491	0.028144
0.033	0.02414	0.014294	0.020588	0.016671	0.018014	0.008168	0.024441
0.031	0.019834	0.000884	0.016282	0.011599	0.013708	-0.00524	0.020737
0.011	0.015528	-0.01161	0.011976	0.005478	0.009402	-0.01774	0.017033
0.308	0.265779	0.233102	0.262227	0.238913	0.265274	0.232597	0.266949
0.312	0.262543	0.234778	0.258991	0.23699	0.262039	0.234273	0.263246
0.315	0.259308	0.237368	0.255756	0.234016	0.258803	0.236863	0.259542
0.318	0.256072	0.240872	0.25252	0.229994	0.255568	0.240367	0.255838

0.314	0.252837	0.24529	0.249285	0.224922	0.252332	0.244785	0.252134
0.311	0.249601	0.250622	0.246049	0.218801	0.249097	0.250118	0.248431
0.286	0.244269	0.228682	0.240718	0.236465	0.243765	0.228178	0.245106
0.285	0.2409	0.22813	0.237348	0.234541	0.240396	0.227625	0.241402
0.278	0.237531	0.228491	0.233979	0.231568	0.237026	0.227987	0.237698
0.281	0.234162	0.229767	0.23061	0.227546	0.233657	0.229262	0.233994
0.271	0.230792	0.231957	0.22724	0.222474	0.230288	0.231452	0.230291
0.241	0.227423	0.23506	0.223871	0.216353	0.226919	0.234556	0.226587
0.174	0.22276	0.221367	0.219208	0.229121	0.222256	0.220862	0.223262
0.175	0.219257	0.218586	0.215705	0.227197	0.218753	0.218081	0.219558
0.17	0.215754	0.216719	0.212202	0.224224	0.21525	0.216214	0.215854
0.177	0.212251	0.215766	0.208699	0.220202	0.211747	0.215262	0.212151
0.169	0.208748	0.215727	0.205196	0.21513	0.208244	0.215223	0.208447
0.142	0.205245	0.216603	0.201693	0.209009	0.20474	0.216098	0.204743
0.123	0.179742	0.198047	0.17619	0.199744	0.179237	0.197543	0.179574
0.124	0.175971	0.190809	0.172419	0.197821	0.175467	0.190305	0.175871
0.125	0.1722	0.184486	0.168649	0.194848	0.171696	0.183981	0.172167
0.121	0.16843	0.179076	0.164878	0.190825	0.167925	0.178571	0.168463
0.123	0.164659	0.17458	0.161107	0.185753	0.164155	0.174076	0.16476
0.101	0.160889	0.170998	0.157337	0.179632	0.160384	0.170494	0.161056
0.075	0.136723	0.163143	0.133171	0.150783	0.136219	0.162639	0.135887
0.078	0.132685	0.151448	0.129133	0.148859	0.13218	0.150944	0.132183
0.079	0.128647	0.140668	0.125095	0.145886	0.128142	0.140163	0.12848
0.079	0.124609	0.130801	0.121057	0.141864	0.124104	0.130296	0.124776
0.081	0.12057	0.121848	0.117019	0.136792	0.120066	0.121344	0.121072
0.049	0.116532	0.11381	0.11298	0.130671	0.116028	0.113305	0.117368
0.036	0.093705	0.116654	0.090153	0.082237	0.0932	0.11615	0.0922
0.035	0.089399	0.100503	0.085847	0.080314	0.088894	0.099998	0.088496
0.034	0.085093	0.085265	0.081541	0.077341	0.084589	0.08476	0.084792
0.033	0.080787	0.070941	0.077235	0.073318	0.080283	0.070437	0.081088
0.027	0.076482	0.057532	0.07293	0.068247	0.075977	0.057027	0.077385
0.011	0.072176	0.045036	0.068624	0.062126	0.071671	0.044532	0.073681
0.157	0.214985	0.182309	0.213336	0.18812	0.221616	0.188939	0.216156
0.161	0.21175	0.183984	0.210101	0.186196	0.21838	0.190615	0.212452
0.165	0.208514	0.186574	0.206865	0.183223	0.215145	0.193205	0.208749
0.168	0.205279	0.190078	0.20363	0.179201	0.211909	0.196709	0.205045
0.153	0.202044	0.194497	0.200394	0.174129	0.208674	0.201127	0.201341
0.156	0.198808	0.199829	0.197159	0.168008	0.205439	0.206459	0.197637
0.143	0.193476	0.177889	0.191827	0.185672	0.200107	0.18452	0.194312
0.142	0.190107	0.177337	0.188458	0.183748	0.196737	0.183967	0.190609
0.141	0.186738	0.177698	0.185088	0.180775	0.193368	0.184329	0.186905
0.156	0.183368	0.178974	0.181719	0.176753	0.189999	0.185604	0.183201
0.141	0.179999	0.181163	0.17835	0.171681	0.18663	0.187794	0.179497
0.139	0.17663	0.184267	0.17498	0.16556	0.18326	0.190898	0.175794
0.125	0.171967	0.170574	0.170318	0.178328	0.178597	0.177204	0.172469
0.121	0.168464	0.167793	0.166814	0.176404	0.175094	0.174423	0.168765
0.121	0.164961	0.165926	0.163311	0.173431	0.171591	0.172556	0.165061
0.129	0.161458	0.164973	0.159808	0.169409	0.168088	0.171603	0.161357

0.117	0.157955	0.164934	0.156305	0.164337	0.164585	0.171564	0.157654
0.105	0.154452	0.165809	0.152802	0.158216	0.161082	0.17244	0.15395
0.109	0.128948	0.147254	0.127299	0.148951	0.135579	0.153885	0.128781
0.108	0.125178	0.140016	0.123528	0.147027	0.131808	0.146647	0.125077
0.101	0.121407	0.133692	0.119758	0.144054	0.128038	0.140323	0.121374
0.103	0.117637	0.128282	0.115987	0.140032	0.124267	0.134913	0.11767
0.105	0.113866	0.123787	0.112217	0.13496	0.120496	0.130417	0.113966
0.069	0.110095	0.120205	0.108446	0.128839	0.116726	0.126836	0.110263
0.081	0.08593	0.11235	0.08428	0.09999	0.09256	0.118981	0.085094
0.069	0.081892	0.100655	0.080242	0.098066	0.088522	0.107286	0.08139
0.071	0.077854	0.089874	0.076204	0.095093	0.084484	0.096505	0.077686
0.069	0.073815	0.080008	0.072166	0.091071	0.080446	0.086638	0.073983
0.072	0.069777	0.071055	0.068128	0.085999	0.076408	0.077685	0.070279
0.048	0.065739	0.063016	0.06409	0.079878	0.072369	0.069647	0.066575
0.06	0.042911	0.065861	0.041262	0.031444	0.049542	0.072492	0.041406
0.053	0.038606	0.049709	0.036956	0.02952	0.045236	0.05634	0.037703
0.054	0.0343	0.034472	0.03265	0.026547	0.04093	0.041102	0.033999
0.061	0.029994	0.020148	0.028345	0.022525	0.036625	0.026779	0.030295
0.048	0.025688	0.006738	0.024039	0.017453	0.032319	0.013369	0.026591
0.039	0.021383	-0.00576	0.019733	0.011332	0.028013	0.000874	0.022888
0.245	0.243309	0.210632	0.24166	0.216444	0.237183	0.204506	0.24448
0.242	0.240074	0.212308	0.238424	0.21452	0.233948	0.206182	0.240776
0.243	0.236838	0.214898	0.235189	0.211547	0.230712	0.208772	0.237072
0.239	0.233603	0.218402	0.231953	0.207525	0.227477	0.212276	0.233369
0.241	0.230367	0.22282	0.228718	0.202453	0.224241	0.216694	0.229665
0.232	0.227132	0.228153	0.225482	0.196332	0.221006	0.222027	0.225961
0.218	0.2218	0.206213	0.220151	0.213996	0.215674	0.200087	0.222636
0.223	0.218431	0.20566	0.216781	0.212072	0.212305	0.199534	0.218932
0.226	0.215061	0.206022	0.213412	0.209099	0.208935	0.199896	0.215229
0.217	0.211692	0.207297	0.210043	0.205077	0.205566	0.201171	0.211525
0.216	0.208323	0.209487	0.206674	0.200005	0.202197	0.203361	0.207821
0.174	0.204954	0.212591	0.203304	0.193884	0.198828	0.206465	0.204118
0.175	0.200291	0.198897	0.198641	0.206652	0.194165	0.192771	0.200792
0.176	0.196788	0.196116	0.195138	0.204728	0.190662	0.18999	0.197089
0.177	0.193285	0.194249	0.191635	0.201755	0.187159	0.188123	0.193385
0.178	0.189782	0.193297	0.188132	0.197732	0.183656	0.187171	0.189681
0.175	0.186279	0.193258	0.184629	0.192661	0.180153	0.187132	0.185978
0.149	0.182775	0.194133	0.181126	0.18654	0.176649	0.188007	0.182274
0.144	0.157272	0.175578	0.155623	0.177275	0.151146	0.169452	0.157105
0.148	0.153502	0.16834	0.151852	0.175351	0.147376	0.162214	0.153401
0.146	0.149731	0.162016	0.148082	0.172378	0.143605	0.15589	0.149698
0.151	0.14596	0.156606	0.144311	0.168356	0.139834	0.15048	0.145994
0.156	0.14219	0.152111	0.14054	0.163284	0.136064	0.145985	0.14229
0.121	0.138419	0.148529	0.13677	0.157163	0.132293	0.142403	0.138586
0.119	0.114254	0.140674	0.112604	0.128314	0.108128	0.134548	0.113418
0.125	0.110216	0.128979	0.108566	0.12639	0.104089	0.122853	0.109714
0.121	0.106177	0.118198	0.104528	0.123417	0.100051	0.112072	0.10601
0.126	0.102139	0.108331	0.10049	0.119394	0.096013	0.102205	0.102306

0.111	0.098101	0.099379	0.096452	0.114323	0.091975	0.093253	0.098603
0.095	0.094063	0.09134	0.092413	0.108202	0.087937	0.085214	0.094899
0.091	0.071235	0.094185	0.069586	0.059768	0.065109	0.088059	0.06973
0.089	0.066929	0.078033	0.06528	0.057844	0.060803	0.071907	0.066026
0.088	0.062624	0.062795	0.060974	0.054871	0.056498	0.056669	0.062323
0.088	0.058318	0.048472	0.056669	0.050849	0.052192	0.042346	0.058619
0.087	0.054012	0.035062	0.052363	0.045777	0.047886	0.028936	0.054915
0.045	0.049706	0.022567	0.048057	0.039656	0.04358	0.016441	0.051212
0.334	0.299957	0.26728	0.298307	0.273091	0.299452	0.266775	0.301127
0.331	0.296721	0.268956	0.295072	0.271168	0.296217	0.268451	0.297424
0.332	0.293486	0.271546	0.291836	0.268195	0.292981	0.271041	0.29372
0.326	0.29025	0.27505	0.288601	0.264172	0.289746	0.274545	0.290016
0.333	0.287015	0.279468	0.285366	0.259101	0.28651	0.278964	0.286313
0.305	0.283779	0.2848	0.28213	0.25298	0.283275	0.284296	0.282609
0.307	0.278448	0.262861	0.276798	0.270643	0.277943	0.262356	0.279284
0.311	0.275078	0.262308	0.273429	0.26872	0.274574	0.261804	0.27558
0.31	0.271709	0.262669	0.27006	0.265747	0.271205	0.262165	0.271876
0.308	0.26834	0.263945	0.26669	0.261724	0.267835	0.263441	0.268173
0.295	0.264971	0.266135	0.263321	0.256652	0.264466	0.26563	0.264469
0.256	0.261601	0.269239	0.259952	0.250531	0.261097	0.268734	0.260765
0.254	0.256938	0.255545	0.255289	0.263299	0.256434	0.255041	0.25744
0.249	0.253435	0.252764	0.251786	0.261375	0.252931	0.25226	0.253736
0.253	0.249932	0.250897	0.248283	0.258402	0.249428	0.250393	0.250033
0.248	0.246429	0.249944	0.24478	0.25438	0.245925	0.24944	0.246329
0.251	0.242926	0.249905	0.241277	0.249308	0.242422	0.249401	0.242625
0.204	0.239423	0.250781	0.237774	0.243187	0.238919	0.250276	0.238921
0.167	0.21392	0.232226	0.21227	0.233923	0.213415	0.231721	0.213753
0.161	0.210149	0.224988	0.2085	0.231999	0.209645	0.224483	0.210049
0.159	0.206379	0.218664	0.204729	0.229026	0.205874	0.218159	0.206345
0.168	0.202608	0.213254	0.200959	0.225003	0.202104	0.212749	0.202641
0.164	0.198837	0.208758	0.197188	0.219932	0.198333	0.208254	0.198938
0.151	0.195067	0.205177	0.193417	0.213811	0.194562	0.204672	0.195234
0.121	0.170901	0.197321	0.169252	0.184961	0.170397	0.196817	0.170065
0.122	0.166863	0.185627	0.165214	0.183038	0.166359	0.185122	0.166361
0.123	0.162825	0.174846	0.161176	0.180065	0.16232	0.174341	0.162658
0.121	0.158787	0.164979	0.157137	0.176042	0.158282	0.164475	0.158954
0.12	0.154749	0.156026	0.153099	0.17097	0.154244	0.155522	0.15525
0.092	0.15071	0.147988	0.149061	0.164849	0.150206	0.147483	0.151547
0.085	0.127883	0.150833	0.126233	0.116416	0.127378	0.150328	0.126378
0.086	0.123577	0.134681	0.121928	0.114492	0.123073	0.134176	0.122674
0.089	0.119271	0.119443	0.117622	0.111519	0.118767	0.118939	0.11897
0.081	0.114966	0.105119	0.113316	0.107496	0.114461	0.104615	0.115267
0.082	0.11066	0.09171	0.10901	0.102425	0.110155	0.091205	0.111563
0.057	0.106354	0.079214	0.104705	0.096304	0.10585	0.07871	0.107859
0.167	0.196005	0.163328	0.201291	0.169139	0.202635	0.169958	0.197175
0.168	0.192769	0.165004	0.198055	0.167216	0.1994	0.171634	0.193472
0.168	0.189534	0.167594	0.19482	0.164243	0.196164	0.174224	0.189768
0.165	0.186298	0.171098	0.191584	0.16022	0.192929	0.177728	0.186064

0.163	0.183063	0.175516	0.188349	0.155148	0.189693	0.182146	0.18236
0.156	0.179827	0.180848	0.185114	0.149027	0.186458	0.187479	0.178657
0.148	0.174496	0.158909	0.179782	0.166691	0.181126	0.165539	0.175332
0.147	0.171126	0.158356	0.176412	0.164768	0.177757	0.164986	0.171628
0.151	0.167757	0.158717	0.173043	0.161794	0.174387	0.165348	0.167924
0.148	0.164388	0.159993	0.169674	0.157772	0.171018	0.166623	0.16422
0.149	0.161018	0.162183	0.166305	0.1527	0.167649	0.168813	0.160517
0.138	0.157649	0.165286	0.162935	0.146579	0.16428	0.171917	0.156813
0.121	0.152986	0.151593	0.158272	0.159347	0.159617	0.158223	0.153488
0.121	0.149483	0.148812	0.154769	0.157423	0.156114	0.155442	0.149784
0.119	0.14598	0.146945	0.151266	0.15445	0.152611	0.153575	0.14608
0.12	0.142477	0.145992	0.147763	0.150428	0.149108	0.152623	0.142377
0.118	0.138974	0.145953	0.14426	0.145356	0.145605	0.152584	0.138673
0.104	0.135471	0.146829	0.140757	0.139235	0.142102	0.153459	0.134969
0.093	0.109968	0.128273	0.115254	0.12997	0.116598	0.134904	0.1098
0.092	0.106197	0.121035	0.111483	0.128047	0.112828	0.127666	0.106097
0.091	0.102426	0.114712	0.107713	0.125074	0.109057	0.121342	0.102393
0.094	0.098656	0.109302	0.103942	0.121051	0.105286	0.115932	0.098689
0.091	0.094885	0.104806	0.100171	0.115979	0.101516	0.111437	0.094986
0.07	0.091115	0.101225	0.096401	0.109858	0.097745	0.107855	0.091282
0.075	0.066949	0.093369	0.072235	0.081009	0.07358	0.1	0.066113
0.074	0.062911	0.081674	0.068197	0.079085	0.069542	0.088305	0.062409
0.073	0.058873	0.070894	0.064159	0.076112	0.065503	0.077524	0.058706
0.075	0.054835	0.061027	0.060121	0.07209	0.061465	0.067657	0.055002
0.074	0.050796	0.052074	0.056083	0.067018	0.057427	0.058705	0.051298
0.046	0.046758	0.044036	0.052044	0.060897	0.053389	0.050666	0.047594
0.042	0.023931	0.046881	0.029217	0.012464	0.030561	0.053511	0.022426
0.044	0.019625	0.030729	0.024911	0.01054	0.026255	0.037359	0.018722
0.046	0.015319	0.015491	0.020605	0.007567	0.02195	0.022121	0.015018
0.044	0.011013	0.001167	0.0163	0.003544	0.017644	0.007798	0.011314
0.049	0.006708	-0.01224	0.011994	-0.00153	0.013338	-0.00561	0.007611
0.03	0.002402	-0.02474	0.007688	-0.00765	0.009032	-0.01811	0.003907
0.231	0.224329	0.191652	0.229615	0.197463	0.218203	0.185526	0.225499
0.228	0.221093	0.193328	0.226379	0.195539	0.214967	0.187202	0.221795
0.228	0.217858	0.195917	0.223144	0.192566	0.211732	0.189791	0.218092
0.229	0.214622	0.199422	0.219908	0.188544	0.208496	0.193296	0.214388
0.231	0.211387	0.20384	0.216673	0.183472	0.205261	0.197714	0.210684
0.217	0.208151	0.209172	0.213437	0.177351	0.202025	0.203046	0.206981
0.201	0.202819	0.187232	0.208105	0.195015	0.196693	0.181106	0.203655
0.198	0.19945	0.18668	0.204736	0.193091	0.193324	0.180554	0.199952
0.204	0.196081	0.187041	0.201367	0.190118	0.189955	0.180915	0.196248
0.206	0.192712	0.188317	0.197998	0.186096	0.186585	0.182191	0.192544
0.195	0.189342	0.190506	0.194628	0.181024	0.183216	0.18438	0.188841
0.182	0.185973	0.19361	0.191259	0.174903	0.179847	0.187484	0.185137
0.165	0.18131	0.179917	0.186596	0.187671	0.175184	0.173791	0.181812
0.166	0.177807	0.177136	0.183093	0.185747	0.171681	0.17101	0.178108
0.168	0.174304	0.175269	0.17959	0.182774	0.168178	0.169143	0.174404
0.171	0.170801	0.174316	0.176087	0.178752	0.164675	0.16819	0.170701

0.17	0.167298	0.174277	0.172584	0.17368	0.161172	0.168151	0.166997
0.152	0.163795	0.175152	0.169081	0.167559	0.157669	0.169026	0.163293
0.139	0.138292	0.156597	0.143578	0.158294	0.132166	0.150471	0.138124
0.138	0.134521	0.149359	0.139807	0.15637	0.128395	0.143233	0.134421
0.135	0.13075	0.143035	0.136036	0.153397	0.124624	0.136909	0.130717
0.135	0.12698	0.137626	0.132266	0.149375	0.120854	0.1315	0.127013
0.136	0.123209	0.13313	0.128495	0.144303	0.117083	0.127004	0.123309
0.114	0.119438	0.129548	0.124725	0.138182	0.113312	0.123422	0.119606
0.123	0.095273	0.121693	0.100559	0.109333	0.089147	0.115567	0.094437
0.125	0.091235	0.109998	0.096521	0.107409	0.085109	0.103872	0.090733
0.124	0.087197	0.099217	0.092483	0.104436	0.081071	0.093091	0.087029
0.123	0.083158	0.089351	0.088445	0.100414	0.077032	0.083225	0.083326
0.123	0.07912	0.080398	0.084406	0.095342	0.072994	0.074272	0.079622
0.095	0.075082	0.07236	0.080368	0.089221	0.068956	0.066234	0.075918
0.087	0.052254	0.075204	0.057541	0.040787	0.046128	0.069078	0.050749
0.083	0.047949	0.059053	0.053235	0.038864	0.041823	0.052927	0.047046
0.075	0.043643	0.043815	0.048929	0.035891	0.037517	0.037689	0.043342
0.078	0.039337	0.029491	0.044623	0.031868	0.033211	0.023365	0.039638
0.076	0.035032	0.016082	0.040318	0.026796	0.028906	0.009956	0.035935
0.051	0.030726	0.003586	0.036012	0.020675	0.0246	-0.00254	0.032231
0.328	0.280976	0.248299	0.286262	0.254111	0.280472	0.247795	0.282147
0.327	0.277741	0.249975	0.283027	0.252187	0.277236	0.249471	0.278443
0.325	0.274505	0.252565	0.279791	0.249214	0.274001	0.252061	0.274739
0.326	0.27127	0.256069	0.276556	0.245192	0.270765	0.255565	0.271036
0.329	0.268034	0.260487	0.27332	0.24012	0.26753	0.259983	0.267332
0.321	0.264799	0.26582	0.270085	0.233999	0.264294	0.265315	0.263628
0.295	0.259467	0.24388	0.264753	0.251663	0.258962	0.243375	0.260303
0.29	0.256098	0.243327	0.261384	0.249739	0.255593	0.242823	0.256599
0.292	0.252728	0.243689	0.258015	0.246766	0.252224	0.243184	0.252896
0.293	0.249359	0.244964	0.254645	0.242744	0.248855	0.24446	0.249192
0.285	0.24599	0.247154	0.251276	0.237672	0.245485	0.24665	0.245488
0.255	0.242621	0.250258	0.247907	0.231551	0.242116	0.249753	0.241784
0.212	0.237958	0.236564	0.243244	0.244319	0.237453	0.23606	0.238459
0.216	0.234455	0.233783	0.239741	0.242395	0.23395	0.233279	0.234756
0.217	0.230952	0.231916	0.236238	0.239422	0.230447	0.231412	0.231052
0.216	0.227449	0.230964	0.232735	0.235399	0.226944	0.230459	0.227348
0.214	0.223945	0.230925	0.229232	0.230328	0.223441	0.23042	0.223644
0.189	0.220442	0.2318	0.225729	0.224207	0.219938	0.231296	0.219941
0.153	0.194939	0.213245	0.200225	0.214942	0.194435	0.21274	0.194772
0.152	0.191169	0.206007	0.196455	0.213018	0.190664	0.205502	0.191068
0.149	0.187398	0.199683	0.192684	0.210045	0.186893	0.199179	0.187364
0.149	0.183627	0.194273	0.188913	0.206023	0.183123	0.193769	0.183661
0.151	0.179857	0.189778	0.185143	0.200951	0.179352	0.189273	0.179957
0.146	0.176086	0.186196	0.181372	0.19483	0.175582	0.185691	0.176253
0.117	0.151921	0.178341	0.157207	0.165981	0.151416	0.177836	0.151084
0.116	0.147882	0.166646	0.153169	0.164057	0.147378	0.166141	0.147381
0.116	0.143844	0.155865	0.14913	0.161084	0.14334	0.155361	0.143677
0.115	0.139806	0.145998	0.145092	0.157061	0.139302	0.145494	0.139973

0.114	0.135768	0.137046	0.141054	0.15199	0.135263	0.136541	0.13627
0.096	0.13173	0.129007	0.137016	0.145869	0.131225	0.128503	0.132566
0.089	0.108902	0.131852	0.114188	0.097435	0.108398	0.131348	0.107397
0.091	0.104596	0.1157	0.109883	0.095511	0.104092	0.115196	0.103693
0.079	0.100291	0.100462	0.105577	0.092538	0.099786	0.099958	0.09999
0.075	0.095985	0.086139	0.101271	0.088516	0.09548	0.085634	0.096286
0.073	0.091679	0.072729	0.096965	0.083444	0.091175	0.072225	0.092582
0.051	0.087373	0.060234	0.09266	0.077323	0.086869	0.059729	0.088878
0.159	0.183351	0.150674	0.179877	0.156486	0.189981	0.157305	0.184522
0.158	0.180115	0.15235	0.176642	0.154562	0.186746	0.15898	0.180818
0.156	0.17688	0.15494	0.173406	0.151589	0.183511	0.16157	0.177114
0.157	0.173645	0.158444	0.170171	0.147566	0.180275	0.165074	0.17341
0.155	0.170409	0.162862	0.166935	0.142495	0.17704	0.169493	0.169707
0.141	0.167174	0.168194	0.1637	0.136374	0.173804	0.174825	0.166003
0.118	0.161842	0.146255	0.158368	0.154038	0.168472	0.152885	0.162678
0.119	0.158472	0.145702	0.154999	0.152114	0.165103	0.152333	0.158974
0.117	0.155103	0.146064	0.15163	0.149141	0.161734	0.152694	0.15527
0.121	0.151734	0.147339	0.14826	0.145118	0.158364	0.15397	0.151567
0.114	0.148365	0.149529	0.144891	0.140047	0.154995	0.156159	0.147863
0.096	0.144995	0.152633	0.141522	0.133926	0.151626	0.159263	0.144159
0.099	0.140332	0.138939	0.136859	0.146693	0.146963	0.14557	0.140834
0.093	0.136829	0.136158	0.133356	0.14477	0.14346	0.142789	0.13713
0.095	0.133326	0.134291	0.129853	0.141797	0.139957	0.140922	0.133427
0.091	0.129823	0.133338	0.12635	0.137774	0.136454	0.139969	0.129723
0.088	0.12632	0.1333	0.122847	0.132702	0.132951	0.13993	0.126019
0.061	0.122817	0.134175	0.119344	0.126581	0.129448	0.140805	0.122316
0.066	0.097314	0.11562	0.09384	0.117317	0.103944	0.12225	0.097147
0.065	0.093543	0.108382	0.09007	0.115393	0.100174	0.115012	0.093443
0.064	0.089773	0.102058	0.086299	0.11242	0.096403	0.108688	0.089739
0.065	0.086002	0.096648	0.082529	0.108397	0.092633	0.103279	0.086036
0.061	0.082231	0.092152	0.078758	0.103326	0.088862	0.098783	0.082332
0.038	0.078461	0.088571	0.074987	0.097205	0.085091	0.095201	0.078628
0.045	0.054295	0.080716	0.050822	0.068355	0.060926	0.087346	0.053459
0.044	0.050257	0.069021	0.046784	0.066432	0.056888	0.075651	0.049756
0.043	0.046219	0.05824	0.042745	0.063459	0.05285	0.06487	0.046052
0.044	0.042181	0.048373	0.038707	0.059436	0.048811	0.055004	0.042348
0.047	0.038143	0.03942	0.034669	0.054365	0.044773	0.046051	0.038644
0.021	0.034105	0.031382	0.030631	0.048243	0.040735	0.038012	0.034941
0.019	0.011277	0.034227	0.007803	-0.00019	0.017907	0.040857	0.009772
0.021	0.006971	0.018075	0.003498	-0.00211	0.013602	0.024705	0.006068
0.018	0.002665	0.002837	-0.00081	-0.00509	0.009296	0.009468	0.002364
0.022	-0.00164	-0.01149	-0.00511	-0.00911	0.00499	-0.00486	-0.00134
0.021	-0.00595	-0.0249	-0.00942	-0.01418	0.000684	-0.01827	-0.00504
0.003	-0.01025	-0.03739	-0.01373	-0.0203	-0.00362	-0.03076	-0.00875
0.222	0.211675	0.178998	0.208201	0.184809	0.205549	0.172872	0.212845
0.223	0.208439	0.180674	0.204966	0.182886	0.202313	0.174548	0.209142
0.221	0.205204	0.183264	0.20173	0.179913	0.199078	0.177138	0.205438
0.219	0.201968	0.186768	0.198495	0.17589	0.195842	0.180642	0.201734

0.217	0.198733	0.191186	0.195259	0.170818	0.192607	0.18506	0.198031
0.206	0.195497	0.196518	0.192024	0.164697	0.189371	0.190392	0.194327
0.178	0.190166	0.174579	0.186692	0.182361	0.18404	0.168453	0.191002
0.185	0.186796	0.174026	0.183323	0.180438	0.18067	0.1679	0.187298
0.186	0.183427	0.174387	0.179953	0.177464	0.177301	0.168261	0.183594
0.185	0.180058	0.175663	0.176584	0.173442	0.173932	0.169537	0.179891
0.179	0.176688	0.177853	0.173215	0.16837	0.170562	0.171727	0.176187
0.165	0.173319	0.180957	0.169846	0.162249	0.167193	0.17483	0.172483
0.133	0.168656	0.167263	0.165183	0.175017	0.16253	0.161137	0.169158
0.132	0.165153	0.164482	0.16168	0.173093	0.159027	0.158356	0.165454
0.131	0.16165	0.162615	0.158177	0.17012	0.155524	0.156489	0.161751
0.129	0.158147	0.161662	0.154674	0.166098	0.152021	0.155536	0.158047
0.128	0.154644	0.161623	0.151171	0.161026	0.148518	0.155497	0.154343
0.106	0.151141	0.162499	0.147667	0.154905	0.145015	0.156373	0.150639
0.107	0.125638	0.143943	0.122164	0.14564	0.119512	0.137817	0.125471
0.108	0.121867	0.136706	0.118394	0.143717	0.115741	0.130579	0.121767
0.111	0.118097	0.130382	0.114623	0.140744	0.11197	0.124256	0.118063
0.105	0.114326	0.124972	0.110852	0.136721	0.1082	0.118846	0.114359
0.101	0.110555	0.120476	0.107082	0.13165	0.104429	0.11435	0.110656
0.084	0.106785	0.116895	0.103311	0.125528	0.100659	0.110769	0.106952
0.086	0.082619	0.109039	0.079146	0.096679	0.076493	0.102913	0.081783
0.087	0.078581	0.097344	0.075107	0.094755	0.072455	0.091218	0.078079
0.079	0.074543	0.086564	0.071069	0.091782	0.068417	0.080438	0.074376
0.075	0.070505	0.076697	0.067031	0.08776	0.064379	0.070571	0.070672
0.077	0.066467	0.067744	0.062993	0.082688	0.06034	0.061618	0.066968
0.053	0.062428	0.059706	0.058955	0.076567	0.056302	0.05358	0.063264
0.035	0.039601	0.062551	0.036127	0.028134	0.033475	0.056425	0.038096
0.036	0.035295	0.046399	0.031821	0.02621	0.029169	0.040273	0.034392
0.033	0.030989	0.031161	0.027516	0.023237	0.024863	0.025035	0.030688
0.029	0.026683	0.016837	0.02321	0.019214	0.020557	0.010711	0.026984
0.021	0.022378	0.003428	0.018904	0.014143	0.016252	-0.0027	0.023281
0.007	0.018072	-0.00907	0.014598	0.008022	0.011946	-0.01519	0.019577
0.31	0.268322	0.235646	0.264849	0.241457	0.267818	0.235141	0.269493
0.316	0.265087	0.237321	0.261613	0.239533	0.264582	0.236817	0.265789
0.317	0.261851	0.239911	0.258378	0.23656	0.261347	0.239407	0.262086
0.318	0.258616	0.243415	0.255142	0.232538	0.258111	0.242911	0.258382
0.314	0.25538	0.247834	0.251907	0.227466	0.254876	0.247329	0.254678
0.299	0.252145	0.253166	0.248671	0.221345	0.251641	0.252661	0.250974
0.289	0.246813	0.231226	0.24334	0.239009	0.246309	0.230722	0.247649
0.287	0.243444	0.230674	0.23997	0.237085	0.242939	0.230169	0.243946
0.285	0.240075	0.231035	0.236601	0.234112	0.23957	0.230531	0.240242
0.286	0.236705	0.232311	0.233232	0.23009	0.236201	0.231806	0.236538
0.275	0.233336	0.2345	0.229863	0.225018	0.232832	0.233996	0.232834
0.251	0.229967	0.237604	0.226493	0.218897	0.229462	0.2371	0.229131
0.176	0.225304	0.223911	0.22183	0.231665	0.224799	0.223406	0.225806
0.177	0.221801	0.22113	0.218327	0.229741	0.221296	0.220625	0.222102
0.169	0.218298	0.219263	0.214824	0.226768	0.217793	0.218758	0.218398
0.174	0.214795	0.21831	0.211321	0.222746	0.21429	0.217805	0.214694

0.168	0.211292	0.218271	0.207818	0.217674	0.210787	0.217766	0.210991
0.145	0.207789	0.219146	0.204315	0.211553	0.207284	0.218642	0.207287
0.127	0.182285	0.200591	0.178812	0.202288	0.181781	0.200087	0.182118
0.126	0.178515	0.193353	0.175041	0.200364	0.17801	0.192849	0.178414
0.124	0.174744	0.187029	0.171271	0.197391	0.17424	0.186525	0.174711
0.123	0.170974	0.181619	0.1675	0.193369	0.170469	0.181115	0.171007
0.121	0.167203	0.177124	0.163729	0.188297	0.166698	0.176619	0.167303
0.103	0.163432	0.173542	0.159959	0.182176	0.162928	0.173038	0.1636
0.088	0.139267	0.165687	0.135793	0.153327	0.138762	0.165182	0.138431
0.085	0.135229	0.153992	0.131755	0.151403	0.134724	0.153488	0.134727
0.083	0.13119	0.143211	0.127717	0.14843	0.130686	0.142707	0.131023
0.081	0.127152	0.133345	0.123679	0.144408	0.126648	0.13284	0.12732
0.076	0.123114	0.124392	0.119641	0.139336	0.12261	0.123887	0.123616
0.054	0.119076	0.116353	0.115602	0.133215	0.118571	0.115849	0.119912
0.04	0.096248	0.119198	0.092775	0.084781	0.095744	0.118694	0.094743
0.039	0.091943	0.103046	0.088469	0.082857	0.091438	0.102542	0.09104
0.036	0.087637	0.087809	0.084163	0.079884	0.087132	0.087304	0.087336
0.035	0.083331	0.073485	0.079858	0.075862	0.082827	0.072981	0.083632
0.031	0.079025	0.060075	0.075552	0.07079	0.078521	0.059571	0.079928
0.017	0.07472	0.04758	0.071246	0.064669	0.074215	0.047076	0.076225
0.162	0.214151	0.181474	0.212476	0.187285	0.220781	0.188104	0.215321
0.165	0.210915	0.18315	0.20924	0.185362	0.217546	0.18978	0.211618
0.163	0.20768	0.18574	0.206005	0.182389	0.21431	0.19237	0.207914
0.165	0.204444	0.189244	0.202769	0.178366	0.211075	0.195874	0.20421
0.166	0.201209	0.193662	0.199534	0.173294	0.207839	0.200292	0.200507
0.161	0.197973	0.198994	0.196298	0.167173	0.204604	0.205625	0.196803
0.152	0.192642	0.177055	0.190966	0.184837	0.199272	0.183685	0.193478
0.151	0.189272	0.176502	0.187597	0.182914	0.195903	0.183132	0.189774
0.152	0.185903	0.176863	0.184228	0.17994	0.192533	0.183494	0.18607
0.149	0.182534	0.178139	0.180859	0.175918	0.189164	0.18477	0.182367
0.151	0.179164	0.180329	0.177489	0.170846	0.185795	0.186959	0.178663
0.148	0.175795	0.183433	0.17412	0.164725	0.182426	0.190063	0.174959
0.135	0.171132	0.169739	0.169457	0.177493	0.177763	0.17637	0.171634
0.135	0.167629	0.166958	0.165954	0.175569	0.17426	0.173588	0.16793
0.134	0.164126	0.165091	0.162451	0.172596	0.170757	0.171721	0.164227
0.131	0.160623	0.164138	0.158948	0.168574	0.167254	0.170769	0.160523
0.129	0.15712	0.164099	0.155445	0.163502	0.163751	0.17073	0.156819
0.115	0.153617	0.164975	0.151942	0.157381	0.160248	0.171605	0.153115
0.111	0.128114	0.146419	0.126439	0.148116	0.134744	0.15305	0.127947
0.108	0.124343	0.139182	0.122668	0.146193	0.130974	0.145812	0.124243
0.101	0.120573	0.132858	0.118897	0.14322	0.127203	0.139488	0.120539
0.105	0.116802	0.127448	0.115127	0.139197	0.123432	0.134078	0.116835
0.106	0.113031	0.122952	0.111356	0.134126	0.119662	0.129583	0.113132
0.089	0.109261	0.119371	0.107586	0.128004	0.115891	0.126001	0.109428
0.081	0.085095	0.111515	0.08342	0.099155	0.091726	0.118146	0.084259
0.079	0.081057	0.09982	0.079382	0.097231	0.087688	0.106451	0.080555
0.078	0.077019	0.08904	0.075344	0.094258	0.083649	0.09567	0.076852
0.076	0.072981	0.079173	0.071306	0.090236	0.079611	0.085803	0.073148

0.075	0.068943	0.07022	0.067267	0.085164	0.075573	0.076851	0.069444
0.059	0.064904	0.062182	0.063229	0.079043	0.071535	0.068812	0.06574
0.061	0.042077	0.065027	0.040402	0.03061	0.048707	0.071657	0.040572
0.059	0.037771	0.048875	0.036096	0.028686	0.044401	0.055505	0.036868
0.058	0.033465	0.033637	0.03179	0.025713	0.040096	0.040267	0.033164
0.055	0.029159	0.019313	0.027484	0.02169	0.03579	0.025944	0.02946
0.053	0.024854	0.005904	0.023179	0.016619	0.031484	0.012534	0.025757
0.035	0.020548	-0.00659	0.018873	0.010498	0.027179	3.89E-05	0.022053
0.241	0.242475	0.209798	0.240799	0.215609	0.236349	0.203672	0.243645
0.239	0.239239	0.211474	0.237564	0.213685	0.233113	0.205348	0.239941
0.238	0.236004	0.214064	0.234329	0.210712	0.229878	0.207937	0.236238
0.244	0.232768	0.217568	0.231093	0.20669	0.226642	0.211442	0.232534
0.238	0.229533	0.221986	0.227858	0.201618	0.223407	0.21586	0.22883
0.231	0.226297	0.227318	0.224622	0.195497	0.220171	0.221192	0.225127
0.225	0.220965	0.205378	0.21929	0.213161	0.214839	0.199252	0.221801
0.226	0.217596	0.204826	0.215921	0.211237	0.21147	0.1987	0.218098
0.222	0.214227	0.205187	0.212552	0.208264	0.208101	0.199061	0.214394
0.221	0.210858	0.206463	0.209182	0.204242	0.204732	0.200337	0.21069
0.221	0.207488	0.208653	0.205813	0.19917	0.201362	0.202526	0.206987
0.202	0.204119	0.211756	0.202444	0.193049	0.197993	0.20563	0.203283
0.195	0.199456	0.198063	0.197781	0.205817	0.19333	0.191937	0.199958
0.193	0.195953	0.195282	0.194278	0.203893	0.189827	0.189156	0.196254
0.194	0.19245	0.193415	0.190775	0.20092	0.186324	0.187289	0.19255
0.1914	0.188947	0.192462	0.187272	0.196898	0.182821	0.186336	0.188847
0.189	0.185444	0.192423	0.183769	0.191826	0.179318	0.186297	0.185143
0.162	0.181941	0.193298	0.180266	0.185705	0.175815	0.187172	0.181439
0.155	0.156438	0.174743	0.154762	0.17644	0.150312	0.168617	0.15627
0.156	0.152667	0.167505	0.150992	0.174516	0.146541	0.161379	0.152567
0.157	0.148896	0.161181	0.147221	0.171543	0.14277	0.155055	0.148863
0.155	0.145126	0.155772	0.143451	0.167521	0.139	0.149646	0.145159
0.156	0.141355	0.151276	0.13968	0.162449	0.135229	0.14515	0.141455
0.135	0.137584	0.147694	0.135909	0.156328	0.131458	0.141568	0.137752
0.133	0.113419	0.139839	0.111744	0.127479	0.107293	0.133713	0.112583
0.129	0.109381	0.128144	0.107706	0.125555	0.103255	0.122018	0.108879
0.128	0.105343	0.117363	0.103668	0.122582	0.099217	0.111237	0.105175
0.131	0.101305	0.107497	0.099629	0.11856	0.095178	0.101371	0.101472
0.128	0.097266	0.098544	0.095591	0.113488	0.09114	0.092418	0.097768
0.096	0.093228	0.090506	0.091553	0.107367	0.087102	0.08438	0.094064
0.095	0.0704	0.09335	0.068725	0.058933	0.064274	0.087224	0.068895
0.094	0.066095	0.077199	0.06442	0.05701	0.059969	0.071073	0.065192
0.093	0.061789	0.061961	0.060114	0.054037	0.055663	0.055835	0.061488
0.094	0.057483	0.047637	0.055808	0.050014	0.051357	0.041511	0.057784
0.089	0.053178	0.034228	0.051502	0.044942	0.047052	0.028102	0.054081
0.051	0.048872	0.021732	0.047197	0.038821	0.042746	0.015606	0.050377
0.331	0.299122	0.266445	0.297447	0.272257	0.298618	0.265941	0.300293
0.329	0.295887	0.268121	0.294212	0.270333	0.295382	0.267617	0.296589
0.335	0.292651	0.270711	0.290976	0.26736	0.292147	0.270207	0.292885
0.327	0.289416	0.274215	0.287741	0.263338	0.288911	0.273711	0.289182

0.341	0.28618	0.278633	0.284505	0.258266	0.285676	0.278129	0.285478
0.303	0.282945	0.283966	0.28127	0.252145	0.28244	0.283461	0.281774
0.305	0.277613	0.262026	0.275938	0.269809	0.277108	0.261521	0.278449
0.307	0.274244	0.261473	0.272569	0.267885	0.273739	0.260969	0.274745
0.309	0.270874	0.261835	0.269199	0.264912	0.27037	0.26133	0.271042
0.305	0.267505	0.26311	0.26583	0.26089	0.267001	0.262606	0.267338
0.311	0.264136	0.2653	0.262461	0.255818	0.263631	0.264796	0.263634
0.254	0.260767	0.268404	0.259092	0.249697	0.260262	0.267899	0.25993
0.261	0.256104	0.25471	0.254429	0.262465	0.255599	0.254206	0.256605
0.259	0.252601	0.251929	0.250926	0.260541	0.252096	0.251425	0.252902
0.262	0.249098	0.250062	0.247422	0.257568	0.248593	0.249558	0.249198
0.263	0.245595	0.24911	0.243919	0.253545	0.24509	0.248605	0.245494
0.265	0.242092	0.249071	0.240416	0.248474	0.241587	0.248566	0.24179
0.187	0.238588	0.249946	0.236913	0.242353	0.238084	0.249442	0.238087
0.165	0.213085	0.231391	0.21141	0.233088	0.212581	0.230886	0.212918
0.166	0.209315	0.224153	0.207639	0.231164	0.20881	0.223648	0.209214
0.159	0.205544	0.217829	0.203869	0.228191	0.205039	0.217325	0.205511
0.161	0.201773	0.212419	0.200098	0.224169	0.201269	0.211915	0.201807
0.154	0.198003	0.207924	0.196328	0.219097	0.197498	0.207419	0.198103
0.135	0.194232	0.204342	0.192557	0.212976	0.193728	0.203837	0.194399
0.123	0.170067	0.196487	0.168392	0.184127	0.169562	0.195982	0.169231
0.119	0.166028	0.184792	0.164353	0.182203	0.165524	0.184287	0.165527
0.118	0.16199	0.174011	0.160315	0.17923	0.161486	0.173507	0.161823
0.125	0.157952	0.164144	0.156277	0.175207	0.157448	0.16364	0.158119
0.128	0.153914	0.155192	0.152239	0.170136	0.153409	0.154687	0.154416
0.091	0.149876	0.147153	0.148201	0.164015	0.149371	0.146649	0.150712
0.084	0.127048	0.149998	0.125373	0.115581	0.126544	0.149494	0.125543
0.083	0.122742	0.133846	0.121067	0.113657	0.122238	0.133342	0.121839
0.082	0.118437	0.118608	0.116762	0.110684	0.117932	0.118104	0.118136
0.082	0.114131	0.104285	0.112456	0.106662	0.113626	0.10378	0.114432
0.081	0.109825	0.090875	0.10815	0.10159	0.109321	0.090371	0.110728
0.051	0.105519	0.07838	0.103844	0.095469	0.105015	0.077875	0.107024
0.159	0.19517	0.162493	0.200431	0.168305	0.201801	0.169124	0.196341
0.159	0.191935	0.164169	0.197195	0.166381	0.198565	0.1708	0.192637
0.161	0.188699	0.166759	0.19396	0.163408	0.19533	0.17339	0.188933
0.159	0.185464	0.170263	0.190724	0.159385	0.192094	0.176894	0.18523
0.158	0.182228	0.174681	0.187489	0.154314	0.188859	0.181312	0.181526
0.158	0.178993	0.180013	0.184253	0.148193	0.185623	0.186644	0.177822
0.15	0.173661	0.158074	0.178921	0.165857	0.180291	0.164704	0.174497
0.149	0.170292	0.157521	0.175552	0.163933	0.176922	0.164152	0.170793
0.148	0.166922	0.157883	0.172183	0.16096	0.173553	0.164513	0.16709
0.149	0.163553	0.159158	0.168814	0.156937	0.170184	0.165789	0.163386
0.151	0.160184	0.161348	0.165444	0.151866	0.166814	0.167979	0.159682
0.145	0.156815	0.164452	0.162075	0.145745	0.163445	0.171082	0.155978
0.128	0.152152	0.150758	0.157412	0.158512	0.158782	0.157389	0.152653
0.129	0.148649	0.147977	0.153909	0.156589	0.155279	0.154608	0.14895
0.128	0.145145	0.14611	0.150406	0.153616	0.151776	0.152741	0.145246
0.127	0.141642	0.145157	0.146903	0.149593	0.148273	0.151788	0.141542

0.125	0.138139	0.145119	0.1434	0.144522	0.14477	0.151749	0.137838
0.112	0.134636	0.145994	0.139897	0.138401	0.141267	0.152624	0.134135
0.101	0.109133	0.127439	0.114394	0.129136	0.115764	0.134069	0.108966
0.102	0.105362	0.120201	0.110623	0.127212	0.111993	0.126831	0.105262
0.103	0.101592	0.113877	0.106852	0.124239	0.108222	0.120507	0.101558
0.099	0.097821	0.108467	0.103082	0.120217	0.104452	0.115098	0.097855
0.101	0.094051	0.103971	0.099311	0.115145	0.100681	0.110602	0.094151
0.075	0.09028	0.10039	0.09554	0.109024	0.096911	0.10702	0.090447
0.074	0.066115	0.092535	0.071375	0.080175	0.072745	0.099165	0.065278
0.073	0.062076	0.08084	0.067337	0.078251	0.068707	0.08747	0.061575
0.071	0.058038	0.070059	0.063299	0.075278	0.064669	0.076689	0.057871
0.071	0.054	0.060192	0.05926	0.071255	0.060631	0.066823	0.054167
0.069	0.049962	0.05124	0.055222	0.066184	0.056592	0.05787	0.050464
0.051	0.045924	0.043201	0.051184	0.060063	0.052554	0.049832	0.04676
0.049	0.023096	0.046046	0.028356	0.011629	0.029727	0.052676	0.021591
0.046	0.01879	0.029894	0.024051	0.009705	0.025421	0.036525	0.017887
0.043	0.014485	0.014656	0.019745	0.006732	0.021115	0.021287	0.014184
0.041	0.010179	0.000333	0.015439	0.00271	0.016809	0.006963	0.01048
0.039	0.005873	-0.01308	0.011134	-0.00236	0.012504	-0.00645	0.006776
0.027	0.001567	-0.02557	0.006828	-0.00848	0.008198	-0.01894	0.003072
0.235	0.223494	0.190817	0.228754	0.196629	0.217368	0.184691	0.224665
0.231	0.220258	0.192493	0.225519	0.194705	0.214132	0.186367	0.220961
0.235	0.217023	0.195083	0.222283	0.191732	0.210897	0.188957	0.217257
0.232	0.213787	0.198587	0.219048	0.187709	0.207661	0.192461	0.213553
0.231	0.210552	0.203005	0.215812	0.182638	0.204426	0.196879	0.20985
0.214	0.207317	0.208337	0.212577	0.176517	0.20119	0.202211	0.206146
0.208	0.201985	0.186398	0.207245	0.19418	0.195859	0.180272	0.202821
0.207	0.198615	0.185845	0.203876	0.192257	0.192489	0.179719	0.199117
0.206	0.195246	0.186207	0.200507	0.189284	0.18912	0.180081	0.195413
0.208	0.191877	0.187482	0.197137	0.185261	0.185751	0.181356	0.19171
0.205	0.188508	0.189672	0.193768	0.18019	0.182382	0.183546	0.188006
0.185	0.185138	0.192776	0.190399	0.174069	0.179012	0.18665	0.184302
0.169	0.180475	0.179082	0.185736	0.186836	0.174349	0.172956	0.180977
0.172	0.176972	0.176301	0.182233	0.184913	0.170846	0.170175	0.177273
0.173	0.173469	0.174434	0.17873	0.181939	0.167343	0.168308	0.17357
0.171	0.169966	0.173481	0.175227	0.177917	0.16384	0.167355	0.169866
0.169	0.166463	0.173442	0.171724	0.172845	0.160337	0.167316	0.166162
0.151	0.16296	0.174318	0.168221	0.166724	0.156834	0.168192	0.162458
0.141	0.137457	0.155763	0.142717	0.15746	0.131331	0.149637	0.13729
0.141	0.133686	0.148525	0.138947	0.155536	0.12756	0.142399	0.133586
0.142	0.129916	0.142201	0.135176	0.152563	0.12379	0.136075	0.129882
0.139	0.126145	0.136791	0.131405	0.14854	0.120019	0.130665	0.126178
0.145	0.122374	0.132295	0.127635	0.143469	0.116248	0.126169	0.122475
0.122	0.118604	0.128714	0.123864	0.137348	0.112478	0.122588	0.118771
0.121	0.094438	0.120858	0.099699	0.108498	0.088312	0.114732	0.093602
0.121	0.0904	0.109164	0.095661	0.106575	0.084274	0.103038	0.089898
0.121	0.086362	0.098383	0.091622	0.103602	0.080236	0.092257	0.086195
0.123	0.082324	0.088516	0.087584	0.099579	0.076198	0.08239	0.082491

0.121	0.078286	0.079563	0.083546	0.094507	0.07216	0.073437	0.078787
0.076	0.074247	0.071525	0.079508	0.088386	0.068121	0.065399	0.075084
0.082	0.05142	0.07437	0.05668	0.039953	0.045294	0.068244	0.049915
0.081	0.047114	0.058218	0.052375	0.038029	0.040988	0.052092	0.046211
0.079	0.042808	0.04298	0.048069	0.035056	0.036682	0.036854	0.042507
0.081	0.038503	0.028656	0.043763	0.031034	0.032377	0.02253	0.038804
0.076	0.034197	0.015247	0.039457	0.025962	0.028071	0.009121	0.0351
0.055	0.029891	0.002752	0.035152	0.019841	0.023765	-0.00337	0.031396
0.32	0.280142	0.247465	0.285402	0.253276	0.279637	0.24696	0.281312
0.326	0.276906	0.24914	0.282167	0.251352	0.276402	0.248636	0.277608
0.325	0.273671	0.25173	0.278931	0.248379	0.273166	0.251226	0.273905
0.325	0.270435	0.255235	0.275696	0.244357	0.269931	0.25473	0.270201
0.321	0.2672	0.259653	0.27246	0.239285	0.266695	0.259148	0.266497
0.308	0.263964	0.264985	0.269225	0.233164	0.26346	0.26448	0.262794
0.291	0.258632	0.243045	0.263893	0.250828	0.258128	0.242541	0.259468
0.292	0.255263	0.242493	0.260523	0.248904	0.254759	0.241988	0.255765
0.289	0.251894	0.242854	0.257154	0.245931	0.251389	0.24235	0.252061
0.29	0.248524	0.24413	0.253785	0.241909	0.24802	0.243625	0.248357
0.286	0.245155	0.246319	0.250416	0.236837	0.244651	0.245815	0.244654
0.251	0.241786	0.249423	0.247046	0.230716	0.241281	0.248919	0.24095
0.215	0.237123	0.23573	0.242383	0.243484	0.236619	0.235225	0.237625
0.216	0.23362	0.232949	0.23888	0.24156	0.233115	0.232444	0.233921
0.217	0.230117	0.231082	0.235377	0.238587	0.229612	0.230577	0.230217
0.218	0.226614	0.230129	0.231874	0.234565	0.226109	0.229624	0.226514
0.215	0.223111	0.23009	0.228371	0.229493	0.222606	0.229586	0.22281
0.183	0.219608	0.230965	0.224868	0.223372	0.219103	0.230461	0.219106
0.157	0.194104	0.21241	0.199365	0.214107	0.1936	0.211906	0.193937
0.158	0.190334	0.205172	0.195594	0.212183	0.189829	0.204668	0.190234
0.157	0.186563	0.198848	0.191824	0.20921	0.186059	0.198344	0.18653
0.156	0.182793	0.193439	0.188053	0.205188	0.182288	0.192934	0.182826
0.157	0.179022	0.188943	0.184283	0.200116	0.178518	0.188438	0.179122
0.129	0.175251	0.185361	0.180512	0.193995	0.174747	0.184857	0.175419
0.115	0.151086	0.177506	0.156346	0.165146	0.150581	0.177002	0.15025
0.115	0.147048	0.165811	0.152308	0.163222	0.146543	0.165307	0.146546
0.116	0.14301	0.15503	0.14827	0.160249	0.142505	0.154526	0.142842
0.115	0.138971	0.145164	0.144232	0.156227	0.138467	0.144659	0.139139
0.116	0.134933	0.136211	0.140194	0.151155	0.134429	0.135707	0.135435
0.089	0.130895	0.128173	0.136156	0.145034	0.130391	0.127668	0.131731
0.073	0.108067	0.131017	0.113328	0.0966	0.107563	0.130513	0.106562
0.072	0.103762	0.114865	0.109022	0.094677	0.103257	0.114361	0.102859
0.071	0.099456	0.099628	0.104716	0.091704	0.098951	0.099123	0.099155
0.072	0.09515	0.085304	0.100411	0.087681	0.094646	0.0848	0.095451
0.069	0.090844	0.071895	0.096105	0.082609	0.09034	0.07139	0.091748
0.048	0.086539	0.059399	0.091799	0.076488	0.086034	0.058895	0.088044
0.156	0.182516	0.149839	0.179017	0.155651	0.189147	0.15647	0.183687
0.158	0.179281	0.151515	0.175782	0.153727	0.185911	0.158146	0.179983
0.158	0.176045	0.154105	0.172546	0.150754	0.182676	0.160736	0.176279
0.157	0.17281	0.157609	0.169311	0.146732	0.17944	0.16424	0.172576

0.157	0.169574	0.162027	0.166075	0.14166	0.176205	0.168658	0.168872
0.145	0.166339	0.16736	0.16284	0.135539	0.172969	0.17399	0.165168
0.127	0.161007	0.14542	0.157508	0.153203	0.167638	0.152051	0.161843
0.128	0.157638	0.144867	0.154139	0.151279	0.164268	0.151498	0.158139
0.126	0.154269	0.145229	0.150769	0.148306	0.160899	0.151859	0.154436
0.125	0.150899	0.146505	0.1474	0.144284	0.15753	0.153135	0.150732
0.126	0.14753	0.148694	0.144031	0.139212	0.154161	0.155325	0.147028
0.102	0.144161	0.151798	0.140661	0.133091	0.150791	0.158429	0.143325
0.106	0.139498	0.138105	0.135999	0.145859	0.146128	0.144735	0.139999
0.105	0.135995	0.135323	0.132495	0.143935	0.142625	0.141954	0.136296
0.105	0.132492	0.133457	0.128992	0.140962	0.139122	0.140087	0.132592
0.106	0.128989	0.132504	0.125489	0.136939	0.135619	0.139134	0.128888
0.104	0.125486	0.132465	0.121986	0.131868	0.132116	0.139095	0.125185
0.075	0.121983	0.13334	0.118483	0.125747	0.128613	0.139971	0.121481
0.078	0.096479	0.114785	0.09298	0.116482	0.10311	0.121416	0.096312
0.079	0.092709	0.107547	0.089209	0.114558	0.099339	0.114178	0.092608
0.078	0.088938	0.101223	0.085439	0.111585	0.095569	0.107854	0.088905
0.079	0.085167	0.095813	0.081668	0.107563	0.091798	0.102444	0.085201
0.078	0.081397	0.091318	0.077898	0.102491	0.088027	0.097948	0.081497
0.049	0.077626	0.087736	0.074127	0.09637	0.084257	0.094367	0.077793
0.044	0.053461	0.079881	0.049961	0.067521	0.060091	0.086511	0.052625
0.043	0.049423	0.068186	0.045923	0.065597	0.056053	0.074816	0.048921
0.042	0.045384	0.057405	0.041885	0.062624	0.052015	0.064036	0.045217
0.043	0.041346	0.047538	0.037847	0.058602	0.047977	0.054169	0.041513
0.041	0.037308	0.038586	0.033809	0.05353	0.043939	0.045216	0.03781
0.021	0.03327	0.030547	0.029771	0.047409	0.0399	0.037178	0.034106
0.019	0.010442	0.033392	0.006943	-0.00102	0.017073	0.040023	0.008937
0.018	0.006136	0.01724	0.002637	-0.00295	0.012767	0.023871	0.005233
0.017	0.001831	0.002003	-0.00167	-0.00592	0.008461	0.008633	0.00153
0.015	-0.00247	-0.01232	-0.00597	-0.00994	0.004156	-0.00569	-0.00217
0.015	-0.00678	-0.02573	-0.01028	-0.01502	-0.00015	-0.0191	-0.00588
0.003	-0.01109	-0.03823	-0.01459	-0.02114	-0.00446	-0.0316	-0.00958
0.227	0.21084	0.178163	0.207341	0.183975	0.204714	0.172037	0.212011
0.225	0.207605	0.179839	0.204105	0.182051	0.201479	0.173713	0.208307
0.228	0.204369	0.182429	0.20087	0.179078	0.198243	0.176303	0.204603
0.226	0.201134	0.185933	0.197634	0.175056	0.195008	0.179807	0.2009
0.225	0.197898	0.190351	0.194399	0.169984	0.191772	0.184225	0.197196
0.208	0.194663	0.195684	0.191163	0.163863	0.188537	0.189557	0.193492
0.183	0.189331	0.173744	0.185832	0.181527	0.183205	0.167618	0.190167
0.182	0.185962	0.173191	0.182462	0.179603	0.179836	0.167065	0.186463
0.181	0.182592	0.173553	0.179093	0.17663	0.176466	0.167427	0.18276
0.183	0.179223	0.174828	0.175724	0.172607	0.173097	0.168702	0.179056
0.181	0.175854	0.177018	0.172355	0.167536	0.169728	0.170892	0.175352
0.165	0.172485	0.180122	0.168985	0.161415	0.166359	0.173996	0.171648
0.151	0.167822	0.166428	0.164322	0.174182	0.161696	0.160302	0.168323
0.15	0.164319	0.163647	0.160819	0.172259	0.158193	0.157521	0.16462
0.151	0.160816	0.16178	0.157316	0.169286	0.154689	0.155654	0.160916
0.149	0.157312	0.160827	0.153813	0.165263	0.151186	0.154701	0.157212

0.15	0.153809	0.160789	0.15031	0.160192	0.147683	0.154663	0.153508
0.126	0.150306	0.161664	0.146807	0.154071	0.14418	0.155538	0.149805
0.114	0.124803	0.143109	0.121304	0.144806	0.118677	0.136983	0.124636
0.115	0.121032	0.135871	0.117533	0.142882	0.114906	0.129745	0.120932
0.116	0.117262	0.129547	0.113763	0.139909	0.111136	0.123421	0.117228
0.117	0.113491	0.124137	0.109992	0.135887	0.107365	0.118011	0.113525
0.116	0.109721	0.119641	0.106221	0.130815	0.103595	0.113515	0.109821
0.079	0.10595	0.11606	0.102451	0.124694	0.099824	0.109934	0.106117
0.091	0.081785	0.108205	0.078285	0.095845	0.075659	0.102079	0.080948
0.092	0.077746	0.09651	0.074247	0.093921	0.07162	0.090384	0.077245
0.092	0.073708	0.085729	0.070209	0.090948	0.067582	0.079603	0.073541
0.093	0.06967	0.075862	0.066171	0.086925	0.063544	0.069736	0.069837
0.091	0.065632	0.06691	0.062133	0.081854	0.059506	0.060784	0.066134
0.053	0.061594	0.058871	0.058094	0.075733	0.055468	0.052745	0.06243
0.048	0.038766	0.061716	0.035267	0.027299	0.03264	0.05559	0.037261
0.047	0.03446	0.045564	0.030961	0.025375	0.028334	0.039438	0.033557
0.049	0.030155	0.030326	0.026655	0.022402	0.024029	0.0242	0.029854
0.046	0.025849	0.016003	0.02235	0.01838	0.019723	0.009877	0.02615
0.045	0.021543	0.002593	0.018044	0.013308	0.015417	-0.00353	0.022446
0.016	0.017237	-0.0099	0.013738	0.007187	0.011111	-0.01603	0.018742
0.312	0.267488	0.234811	0.263988	0.240622	0.266983	0.234306	0.268658
0.315	0.264252	0.236487	0.260753	0.238699	0.263748	0.235982	0.264955
0.313	0.261017	0.239077	0.257518	0.235726	0.260512	0.238572	0.261251
0.315	0.257781	0.242581	0.254282	0.231703	0.257277	0.242076	0.257547
0.312	0.254546	0.246999	0.251047	0.226631	0.254041	0.246494	0.253843
0.299	0.25131	0.252331	0.247811	0.22051	0.250806	0.251827	0.25014
0.275	0.245978	0.230391	0.242479	0.238174	0.245474	0.229887	0.246815
0.276	0.242609	0.229839	0.23911	0.236251	0.242105	0.229334	0.243111
0.273	0.23924	0.2302	0.235741	0.233277	0.238735	0.229696	0.239407
0.269	0.235871	0.231476	0.232371	0.229255	0.235366	0.230971	0.235703
0.266	0.232501	0.233666	0.229002	0.224183	0.231997	0.233161	0.232
0.236	0.229132	0.236769	0.225633	0.218062	0.228628	0.236265	0.228296
0.186	0.224469	0.223076	0.22097	0.23083	0.223965	0.222571	0.224971
0.189	0.220966	0.220295	0.217467	0.228906	0.220462	0.21979	0.221267
0.188	0.217463	0.218428	0.213964	0.225933	0.216959	0.217923	0.217563
0.185	0.21396	0.217475	0.210461	0.221911	0.213456	0.216971	0.21386
0.181	0.210457	0.217436	0.206958	0.216839	0.209953	0.216932	0.210156
0.156	0.206954	0.218312	0.203455	0.210718	0.20645	0.217807	0.206452
0.133	0.181451	0.199756	0.177951	0.201453	0.180946	0.199252	0.181283
0.136	0.17768	0.192518	0.174181	0.19953	0.177176	0.192014	0.17758
0.133	0.173909	0.186195	0.17041	0.196557	0.173405	0.18569	0.173876
0.132	0.170139	0.180785	0.16664	0.192534	0.169634	0.18028	0.170172
0.133	0.166368	0.176289	0.162869	0.187462	0.165864	0.175785	0.166469
0.114	0.162598	0.172708	0.159098	0.181341	0.162093	0.172203	0.162765
0.089	0.138432	0.164852	0.134933	0.152492	0.137928	0.164348	0.137596
0.085	0.134394	0.153157	0.130895	0.150568	0.13389	0.152653	0.133892
0.083	0.130356	0.142377	0.126857	0.147595	0.129851	0.141872	0.130189
0.081	0.126318	0.13251	0.122818	0.143573	0.125813	0.132005	0.126485

0.082	0.122279	0.123557	0.11878	0.138501	0.121775	0.123053	0.122781
0.058	0.118241	0.115519	0.114742	0.13238	0.117737	0.115014	0.119077
0.046	0.095414	0.118364	0.091914	0.083947	0.094909	0.117859	0.093909
0.045	0.091108	0.102212	0.087609	0.082023	0.090603	0.101707	0.090205
0.043	0.086802	0.086974	0.083303	0.07905	0.086298	0.086469	0.086501
0.042	0.082496	0.07265	0.078997	0.075027	0.081992	0.072146	0.082797
0.039	0.078191	0.059241	0.074691	0.069956	0.077686	0.058736	0.079094
0.018	0.073885	0.046745	0.070386	0.063835	0.07338	0.046241	0.07539
0.166	0.215558	0.182881	0.213926	0.188692	0.222188	0.189511	0.216728
0.167	0.212322	0.184557	0.210691	0.186769	0.218953	0.191187	0.213025
0.165	0.209087	0.187147	0.207455	0.183796	0.215717	0.193777	0.209321
0.165	0.205851	0.190651	0.20422	0.179773	0.212482	0.197281	0.205617
0.163	0.202616	0.195069	0.200984	0.174701	0.209246	0.201699	0.201913
0.161	0.19938	0.200401	0.197749	0.16858	0.206011	0.207032	0.19821
0.153	0.194049	0.178462	0.192417	0.186244	0.200679	0.185092	0.194885
0.151	0.190679	0.177909	0.189047	0.184321	0.19731	0.184539	0.191181
0.152	0.18731	0.17827	0.185678	0.181347	0.19394	0.184901	0.187477
0.153	0.183941	0.179546	0.182309	0.177325	0.190571	0.186176	0.183773
0.154	0.180571	0.181736	0.17894	0.172253	0.187202	0.188366	0.18007
0.151	0.177202	0.184839	0.17557	0.166132	0.183833	0.19147	0.176366
0.146	0.172539	0.171146	0.170907	0.1789	0.17917	0.177776	0.173041
0.147	0.169036	0.168365	0.167404	0.176976	0.175667	0.174995	0.169337
0.143	0.165533	0.166498	0.163901	0.174003	0.172164	0.173128	0.165633
0.139	0.16203	0.165545	0.160398	0.169981	0.168661	0.172176	0.16193
0.138	0.158527	0.165506	0.156895	0.164909	0.165158	0.172137	0.158226
0.122	0.155024	0.166382	0.153392	0.158788	0.161655	0.173012	0.154522
0.116	0.129521	0.147826	0.127889	0.149523	0.136151	0.154457	0.129353
0.115	0.12575	0.140588	0.124118	0.1476	0.132381	0.147219	0.12565
0.114	0.12198	0.134265	0.120348	0.144627	0.12861	0.140895	0.121946
0.117	0.118209	0.128855	0.116577	0.140604	0.124839	0.135485	0.118242
0.114	0.114438	0.124359	0.112807	0.135532	0.121069	0.13099	0.114539
0.101	0.110668	0.120778	0.109036	0.129411	0.117298	0.127408	0.110835
0.087	0.086502	0.112922	0.08487	0.100562	0.093133	0.119553	0.085666
0.087	0.082464	0.101227	0.080832	0.098638	0.089095	0.107858	0.081962
0.085	0.078426	0.090447	0.076794	0.095665	0.085056	0.097077	0.078259
0.083	0.074388	0.08058	0.072756	0.091643	0.081018	0.08721	0.074555
0.085	0.07035	0.071627	0.068718	0.086571	0.07698	0.078258	0.070851
0.066	0.066311	0.063589	0.06468	0.08045	0.072942	0.070219	0.067147
0.065	0.043484	0.066434	0.041852	0.032017	0.050114	0.073064	0.041979
0.061	0.039178	0.050282	0.037546	0.030093	0.045808	0.056912	0.038275
0.059	0.034872	0.035044	0.03324	0.02712	0.041503	0.041674	0.034571
0.06	0.030566	0.02072	0.028935	0.023097	0.037197	0.027351	0.030867
0.049	0.026261	0.007311	0.024629	0.018026	0.032891	0.013941	0.027164
0.029	0.021955	-0.00518	0.020323	0.011905	0.028585	0.001446	0.02346
0.246	0.243882	0.211205	0.24225	0.217016	0.237756	0.205079	0.245052
0.251	0.240646	0.212881	0.239014	0.215092	0.23452	0.206755	0.241348
0.247	0.237411	0.21547	0.235779	0.212119	0.231285	0.209344	0.237645
0.249	0.234175	0.218975	0.232543	0.208097	0.228049	0.212849	0.233941

0.251	0.23094	0.223393	0.229308	0.203025	0.224814	0.217267	0.230237
0.248	0.227704	0.228725	0.226072	0.196904	0.221578	0.222599	0.226534
0.231	0.222372	0.206785	0.220741	0.214568	0.216246	0.200659	0.223208
0.229	0.219003	0.206233	0.217371	0.212644	0.212877	0.200107	0.219505
0.235	0.215634	0.206594	0.214002	0.209671	0.209508	0.200468	0.215801
0.236	0.212265	0.20787	0.210633	0.205649	0.206139	0.201744	0.212097
0.234	0.208895	0.210059	0.207263	0.200577	0.202769	0.203933	0.208394
0.211	0.205526	0.213163	0.203894	0.194456	0.1994	0.207037	0.20469
0.201	0.200863	0.19947	0.199231	0.207224	0.194737	0.193344	0.201365
0.202	0.19736	0.196689	0.195728	0.2053	0.191234	0.190563	0.197661
0.201	0.193857	0.194822	0.192225	0.202327	0.187731	0.188696	0.193957
0.2	0.190354	0.193869	0.188722	0.198305	0.184228	0.187743	0.190254
0.198	0.186851	0.19383	0.185219	0.193233	0.180725	0.187704	0.18655
0.179	0.183348	0.194705	0.181716	0.187112	0.177222	0.188579	0.182846
0.161	0.157845	0.17615	0.156213	0.177847	0.151719	0.170024	0.157677
0.159	0.154074	0.168912	0.152442	0.175923	0.147948	0.162786	0.153974
0.157	0.150303	0.162588	0.148672	0.17295	0.144177	0.156462	0.15027
0.154	0.146533	0.157179	0.144901	0.168928	0.140407	0.151053	0.146566
0.152	0.142762	0.152683	0.14113	0.163856	0.136636	0.146557	0.142862
0.139	0.138991	0.149101	0.13736	0.157735	0.132865	0.142975	0.139159
0.135	0.114826	0.141246	0.113194	0.128886	0.1087	0.13512	0.11399
0.136	0.110788	0.129551	0.109156	0.126962	0.104662	0.123425	0.110286
0.137	0.10675	0.11877	0.105118	0.123989	0.100624	0.112644	0.106582
0.138	0.102711	0.108904	0.10108	0.119967	0.096585	0.102778	0.102879
0.134	0.098673	0.099951	0.097042	0.114895	0.092547	0.093825	0.099175
0.101	0.094635	0.091913	0.093003	0.108774	0.088509	0.085787	0.095471
0.094	0.071807	0.094757	0.070176	0.06034	0.065681	0.088631	0.070302
0.093	0.067502	0.078606	0.06587	0.058417	0.061376	0.07248	0.066599
0.089	0.063196	0.063368	0.061564	0.055444	0.05707	0.057242	0.062895
0.088	0.05889	0.049044	0.057258	0.051421	0.052764	0.042918	0.059191
0.089	0.054585	0.035635	0.052953	0.046349	0.048459	0.029509	0.055488
0.044	0.050279	0.023139	0.048647	0.040228	0.044153	0.017013	0.051784
0.336	0.300529	0.267852	0.298897	0.273664	0.300025	0.267348	0.3017
0.335	0.297294	0.269528	0.295662	0.27174	0.296789	0.269024	0.297996
0.337	0.294058	0.272118	0.292426	0.268767	0.293554	0.271614	0.294292
0.335	0.290823	0.275622	0.289191	0.264745	0.290318	0.275118	0.290589
0.334	0.287587	0.28004	0.285955	0.259673	0.287083	0.279536	0.286885
0.311	0.284352	0.285373	0.28272	0.253552	0.283847	0.284868	0.283181
0.315	0.27902	0.263433	0.277388	0.271216	0.278515	0.262928	0.279856
0.312	0.275651	0.26288	0.274019	0.269292	0.275146	0.262376	0.276152
0.315	0.272281	0.263242	0.27065	0.266319	0.271777	0.262737	0.272449
0.311	0.268912	0.264517	0.26728	0.262297	0.268408	0.264013	0.268745
0.312	0.265543	0.266707	0.263911	0.257225	0.265038	0.266203	0.265041
0.271	0.262174	0.269811	0.260542	0.251104	0.261669	0.269306	0.261337
0.271	0.257511	0.256117	0.255879	0.263872	0.257006	0.255613	0.258012
0.269	0.254008	0.253336	0.252376	0.261948	0.253503	0.252832	0.254309
0.268	0.250505	0.251469	0.248873	0.258975	0.25	0.250965	0.250605
0.271	0.247002	0.250517	0.24537	0.254952	0.246497	0.250012	0.246901

0.265	0.243498	0.250478	0.241867	0.249881	0.242994	0.249973	0.243197
0.219	0.239995	0.251353	0.238364	0.24376	0.239491	0.250849	0.239494
0.171	0.214492	0.232798	0.21286	0.234495	0.213988	0.232293	0.214325
0.172	0.210722	0.22556	0.20909	0.232571	0.210217	0.225055	0.210621
0.169	0.206951	0.219236	0.205319	0.229598	0.206446	0.218732	0.206917
0.171	0.20318	0.213826	0.201549	0.225576	0.202676	0.213322	0.203214
0.172	0.19941	0.209331	0.197778	0.220504	0.198905	0.208826	0.19951
0.142	0.195639	0.205749	0.194007	0.214383	0.195135	0.205244	0.195806
0.134	0.171474	0.197894	0.169842	0.185534	0.170969	0.197389	0.170637
0.133	0.167435	0.186199	0.165804	0.18361	0.166931	0.185694	0.166934
0.135	0.163397	0.175418	0.161766	0.180637	0.162893	0.174914	0.16323
0.131	0.159359	0.165551	0.157727	0.176614	0.158855	0.165047	0.159526
0.129	0.155321	0.156599	0.153689	0.171543	0.154816	0.156094	0.155823
0.085	0.151283	0.14856	0.149651	0.165422	0.150778	0.148056	0.152119
0.092	0.128455	0.151405	0.126823	0.116988	0.127951	0.150901	0.12695
0.093	0.124149	0.135253	0.122518	0.115064	0.123645	0.134749	0.123246
0.091	0.119844	0.120015	0.118212	0.112091	0.119339	0.119511	0.119543
0.089	0.115538	0.105692	0.113906	0.108069	0.115033	0.105187	0.115839
0.085	0.111232	0.092282	0.1096	0.102997	0.110728	0.091778	0.112135
0.044	0.106926	0.079787	0.105295	0.096876	0.106422	0.079282	0.108431
0.163	0.196577	0.1639	0.201881	0.169712	0.203208	0.170531	0.197748
0.161	0.193342	0.165576	0.198645	0.167788	0.199972	0.172207	0.194044
0.161	0.190106	0.168166	0.19541	0.164815	0.196737	0.174797	0.19034
0.159	0.186871	0.17167	0.192174	0.160792	0.193501	0.178301	0.186637
0.161	0.183635	0.176088	0.188939	0.155721	0.190266	0.182719	0.182933
0.159	0.1804	0.18142	0.185703	0.1496	0.18703	0.188051	0.179229
0.151	0.175068	0.159481	0.180372	0.167264	0.181698	0.166111	0.175904
0.151	0.171699	0.158928	0.177002	0.16534	0.178329	0.165559	0.1722
0.148	0.168329	0.15929	0.173633	0.162367	0.17496	0.16592	0.168497
0.149	0.16496	0.160565	0.170264	0.158344	0.171591	0.167196	0.164793
0.151	0.161591	0.162755	0.166895	0.153273	0.168221	0.169386	0.161089
0.142	0.158222	0.165859	0.163525	0.147152	0.164852	0.172489	0.157385
0.135	0.153559	0.152165	0.158862	0.159919	0.160189	0.158796	0.15406
0.133	0.150056	0.149384	0.155359	0.157996	0.156686	0.156015	0.150357
0.133	0.146552	0.147517	0.151856	0.155023	0.153183	0.154148	0.146653
0.131	0.143049	0.146564	0.148353	0.151	0.14968	0.153195	0.142949
0.125	0.139546	0.146526	0.14485	0.145929	0.146177	0.153156	0.139245
0.117	0.136043	0.147401	0.141347	0.139808	0.142674	0.154031	0.135542
0.106	0.11054	0.128846	0.115844	0.130543	0.117171	0.135476	0.110373
0.105	0.106769	0.121608	0.112073	0.128619	0.1134	0.128238	0.106669
0.101	0.102999	0.115284	0.108303	0.125646	0.109629	0.121914	0.102965
0.098	0.099228	0.109874	0.104532	0.121624	0.105859	0.116505	0.099262
0.095	0.095458	0.105378	0.100761	0.116552	0.102088	0.112009	0.095558
0.077	0.091687	0.101797	0.096991	0.110431	0.098317	0.108427	0.091854
0.081	0.067522	0.093942	0.072825	0.081582	0.074152	0.100572	0.066685
0.082	0.063483	0.082247	0.068787	0.079658	0.070114	0.088877	0.062982
0.079	0.059445	0.071466	0.064749	0.076685	0.066076	0.078096	0.059278
0.081	0.055407	0.061599	0.060711	0.072662	0.062038	0.06823	0.055574

0.075	0.051369	0.052647	0.056673	0.067591	0.057999	0.059277	0.051871
0.06	0.047331	0.044608	0.052634	0.06147	0.053961	0.051239	0.048167
0.05	0.024503	0.047453	0.029807	0.013036	0.031133	0.054083	0.022998
0.051	0.020197	0.031301	0.025501	0.011112	0.026828	0.037932	0.019294
0.048	0.015892	0.016063	0.021195	0.008139	0.022522	0.022694	0.015591
0.045	0.011586	0.00174	0.01689	0.004117	0.018216	0.00837	0.011887
0.044	0.00728	-0.01167	0.012584	-0.00096	0.013911	-0.00504	0.008183
0.031	0.002974	-0.02417	0.008278	-0.00708	0.009605	-0.01753	0.004479
0.24	0.224901	0.192224	0.230205	0.198035	0.218775	0.186098	0.226072
0.239	0.221665	0.1939	0.226969	0.196112	0.215539	0.187774	0.222368
0.239	0.21843	0.19649	0.223734	0.193139	0.212304	0.190364	0.218664
0.24	0.215194	0.199994	0.220498	0.189116	0.209068	0.193868	0.21496
0.238	0.211959	0.204412	0.217263	0.184045	0.205833	0.198286	0.211257
0.221	0.208723	0.209744	0.214027	0.177924	0.202597	0.203618	0.207553
0.217	0.203392	0.187805	0.208695	0.195587	0.197266	0.181679	0.204228
0.215	0.200022	0.187252	0.205326	0.193664	0.193896	0.181126	0.200524
0.216	0.196653	0.187614	0.201957	0.190691	0.190527	0.181488	0.19682
0.215	0.193284	0.188889	0.198588	0.186668	0.187158	0.182763	0.193117
0.214	0.189915	0.191079	0.195218	0.181597	0.183789	0.184953	0.189413
0.193	0.186545	0.194183	0.191849	0.175475	0.180419	0.188057	0.185709
0.175	0.181882	0.180489	0.187186	0.188243	0.175756	0.174363	0.182384
0.171	0.178379	0.177708	0.183683	0.18632	0.172253	0.171582	0.17868
0.172	0.174876	0.175841	0.18018	0.183346	0.16875	0.169715	0.174977
0.175	0.171373	0.174888	0.176677	0.179324	0.165247	0.168762	0.171273
0.171	0.16787	0.174849	0.173174	0.174252	0.161744	0.168723	0.167569
0.159	0.164367	0.175725	0.169671	0.168131	0.158241	0.169599	0.163865
0.145	0.138864	0.15717	0.144168	0.158867	0.132738	0.151044	0.138697
0.144	0.135093	0.149932	0.140397	0.156943	0.128967	0.143806	0.134993
0.144	0.131323	0.143608	0.136626	0.15397	0.125197	0.137482	0.131289
0.144	0.127552	0.138198	0.132856	0.149947	0.121426	0.132072	0.127585
0.143	0.123781	0.133702	0.129085	0.144876	0.117655	0.127576	0.123882
0.126	0.120011	0.130121	0.125315	0.138755	0.113885	0.123995	0.120178
0.125	0.095845	0.122265	0.101149	0.109905	0.089719	0.116139	0.095009
0.124	0.091807	0.110571	0.097111	0.107982	0.085681	0.104445	0.091305
0.126	0.087769	0.09979	0.093073	0.105009	0.081643	0.093664	0.087602
0.122	0.083731	0.089923	0.089035	0.100986	0.077605	0.083797	0.083898
0.121	0.079693	0.08097	0.084996	0.095914	0.073567	0.074844	0.080194
0.085	0.075654	0.072932	0.080958	0.089793	0.069528	0.066806	0.076491
0.085	0.052827	0.075777	0.058131	0.04136	0.046701	0.069651	0.051322
0.084	0.048521	0.059625	0.053825	0.039436	0.042395	0.053499	0.047618
0.084	0.044215	0.044387	0.049519	0.036463	0.038089	0.038261	0.043914
0.079	0.03991	0.030063	0.045213	0.03244	0.033784	0.023937	0.040211
0.075	0.035604	0.016654	0.040908	0.027369	0.029478	0.010528	0.036507
0.049	0.031298	0.004159	0.036602	0.021248	0.025172	-0.00197	0.032803
0.331	0.281549	0.248872	0.286852	0.254683	0.281044	0.248367	0.282719
0.332	0.278313	0.250547	0.283617	0.252759	0.277809	0.250043	0.279015
0.331	0.275078	0.253137	0.280381	0.249786	0.274573	0.252633	0.275312
0.331	0.271842	0.256641	0.277146	0.245764	0.271338	0.256137	0.271608

0.33	0.268607	0.26106	0.27391	0.240692	0.268102	0.260555	0.267904
0.314	0.265371	0.266392	0.270675	0.234571	0.264867	0.265887	0.264201
0.305	0.260039	0.244452	0.265343	0.252235	0.259535	0.243948	0.260875
0.306	0.25667	0.2439	0.261974	0.250311	0.256166	0.243395	0.257172
0.305	0.253301	0.244261	0.258605	0.247338	0.252796	0.243757	0.253468
0.303	0.249931	0.245537	0.255235	0.243316	0.249427	0.245032	0.249764
0.303	0.246562	0.247726	0.251866	0.238244	0.246058	0.247222	0.246061
0.267	0.243193	0.25083	0.248497	0.232123	0.242688	0.250326	0.242357
0.231	0.23853	0.237137	0.243834	0.244891	0.238026	0.236632	0.239032
0.232	0.235027	0.234356	0.240331	0.242967	0.234522	0.233851	0.235328
0.233	0.231524	0.232489	0.236828	0.239994	0.231019	0.231984	0.231624
0.231	0.228021	0.231536	0.233325	0.235972	0.227516	0.231031	0.227921
0.232	0.224518	0.231497	0.229822	0.2309	0.224013	0.230993	0.224217
0.192	0.221015	0.232372	0.226319	0.224779	0.22051	0.231868	0.220513
0.161	0.195511	0.213817	0.200815	0.215514	0.195007	0.213313	0.195344
0.16	0.191741	0.206579	0.197045	0.21359	0.191236	0.206075	0.191641
0.161	0.18797	0.200255	0.193274	0.210617	0.187466	0.199751	0.187937
0.159	0.1842	0.194846	0.189503	0.206595	0.183695	0.194341	0.184233
0.16	0.180429	0.19035	0.185733	0.201523	0.179925	0.189845	0.180529
0.138	0.176658	0.186768	0.181962	0.195402	0.176154	0.186264	0.176826
0.122	0.152493	0.178913	0.157797	0.166553	0.151988	0.178409	0.151657
0.123	0.148455	0.167218	0.153759	0.164629	0.14795	0.166714	0.147953
0.123	0.144417	0.156437	0.14972	0.161656	0.143912	0.155933	0.144249
0.122	0.140378	0.146571	0.145682	0.157634	0.139874	0.146066	0.140546
0.121	0.13634	0.137618	0.141644	0.152562	0.135836	0.137114	0.136842
0.096	0.132302	0.12958	0.137606	0.146441	0.131798	0.129075	0.133138
0.091	0.109474	0.132424	0.114778	0.098007	0.10897	0.13192	0.107969
0.09	0.105169	0.116272	0.110472	0.096084	0.104664	0.115768	0.104266
0.091	0.100863	0.101035	0.106167	0.093111	0.100358	0.10053	0.100562
0.09	0.096557	0.086711	0.101861	0.089088	0.096053	0.086207	0.096858
0.085	0.092251	0.073302	0.097555	0.084016	0.091747	0.072797	0.093155
0.053	0.087946	0.060806	0.09325	0.077895	0.087441	0.060302	0.089451
0.157	0.183923	0.151246	0.180467	0.157058	0.190554	0.157877	0.185094
0.158	0.180688	0.152922	0.177232	0.155134	0.187318	0.159553	0.18139
0.156	0.177452	0.155512	0.173996	0.152161	0.184083	0.162143	0.177686
0.157	0.174217	0.159016	0.170761	0.148139	0.180847	0.165647	0.173983
0.156	0.170981	0.163434	0.167525	0.143067	0.177612	0.170065	0.170279
0.146	0.167746	0.168767	0.16429	0.136946	0.174376	0.175397	0.166575
0.132	0.162414	0.146827	0.158958	0.15461	0.169045	0.153458	0.16325
0.133	0.159045	0.146274	0.155589	0.152686	0.165675	0.152905	0.159546
0.134	0.155676	0.146636	0.15222	0.149713	0.162306	0.153266	0.155843
0.133	0.152306	0.147912	0.14885	0.145691	0.158937	0.154542	0.152139
0.133	0.148937	0.150101	0.145481	0.140619	0.155567	0.156732	0.148435
0.112	0.145568	0.153205	0.142112	0.134498	0.152198	0.159836	0.144732
0.111	0.140905	0.139512	0.137449	0.147266	0.147535	0.146142	0.141406
0.112	0.137402	0.13673	0.133946	0.145342	0.144032	0.143361	0.137703
0.109	0.133899	0.134863	0.130443	0.142369	0.140529	0.141494	0.133999
0.111	0.130396	0.133911	0.12694	0.138346	0.137026	0.140541	0.130295

0.11	0.126893	0.133872	0.123437	0.133275	0.133523	0.140502	0.126592
0.086	0.12339	0.134747	0.119934	0.127154	0.13002	0.141378	0.122888
0.083	0.097886	0.116192	0.09443	0.117889	0.104517	0.122823	0.097719
0.081	0.094116	0.108954	0.09066	0.115965	0.100746	0.115585	0.094015
0.082	0.090345	0.10263	0.086889	0.112992	0.096976	0.109261	0.090312
0.081	0.086574	0.09722	0.083118	0.10897	0.093205	0.103851	0.086608
0.08	0.082804	0.092725	0.079348	0.103898	0.089434	0.099355	0.082904
0.051	0.079033	0.089143	0.075577	0.097777	0.085664	0.095774	0.0792
0.051	0.054868	0.081288	0.051412	0.068928	0.061498	0.087918	0.054032
0.05	0.05083	0.069593	0.047374	0.067004	0.05746	0.076223	0.050328
0.049	0.046791	0.058812	0.043335	0.064031	0.053422	0.065443	0.046624
0.051	0.042753	0.048945	0.039297	0.060009	0.049384	0.055576	0.04292
0.049	0.038715	0.039993	0.035259	0.054937	0.045346	0.046623	0.039217
0.023	0.034677	0.031954	0.031221	0.048816	0.041307	0.038585	0.035513
0.021	0.011849	0.034799	0.008393	0.000382	0.01848	0.04143	0.010344
0.017	0.007543	0.018647	0.004088	-0.00154	0.014174	0.025278	0.00664
0.018	0.003238	0.00341	-0.00022	-0.00451	0.009868	0.01004	0.002937
0.015	-0.00107	-0.01091	-0.00452	-0.00854	0.005562	-0.00428	-0.00077
0.014	-0.00537	-0.02432	-0.00883	-0.01361	0.001257	-0.01769	-0.00447
0.006	-0.00968	-0.03682	-0.01314	-0.01973	-0.00305	-0.03019	-0.00817
0.237	0.212247	0.17957	0.208791	0.185382	0.206121	0.173444	0.213418
0.236	0.209012	0.181246	0.205556	0.183458	0.202886	0.17512	0.209714
0.237	0.205776	0.183836	0.20232	0.180485	0.19965	0.17771	0.20601
0.235	0.202541	0.18734	0.199085	0.176462	0.196415	0.181214	0.202307
0.233	0.199305	0.191758	0.195849	0.171391	0.193179	0.185632	0.198603
0.219	0.19607	0.197091	0.192614	0.16527	0.189944	0.190964	0.194899
0.201	0.190738	0.175151	0.187282	0.182934	0.184612	0.169025	0.191574
0.2	0.187369	0.174598	0.183913	0.18101	0.181243	0.168472	0.18787
0.2	0.183999	0.17496	0.180543	0.178037	0.177873	0.168834	0.184167
0.198	0.18063	0.176235	0.177174	0.174014	0.174504	0.170109	0.180463
0.199	0.177261	0.178425	0.173805	0.168943	0.171135	0.172299	0.176759
0.173	0.173892	0.181529	0.170436	0.162822	0.167766	0.175403	0.173055
0.161	0.169229	0.167835	0.165773	0.175589	0.163103	0.161709	0.16973
0.16	0.165726	0.165054	0.16227	0.173666	0.1596	0.158928	0.166027
0.159	0.162223	0.163187	0.158767	0.170693	0.156096	0.157061	0.162323
0.155	0.158719	0.162234	0.155264	0.16667	0.152593	0.156108	0.158619
0.153	0.155216	0.162196	0.15176	0.161599	0.14909	0.15607	0.154915
0.139	0.151713	0.163071	0.148257	0.155478	0.145587	0.156945	0.151212
0.129	0.12621	0.144516	0.122754	0.146213	0.120084	0.13839	0.126043
0.128	0.122439	0.137278	0.118984	0.144289	0.116313	0.131152	0.122339
0.128	0.118669	0.130954	0.115213	0.141316	0.112543	0.124828	0.118635
0.125	0.114898	0.125544	0.111442	0.137294	0.108772	0.119418	0.114932
0.125	0.111128	0.121048	0.107672	0.132222	0.105002	0.114922	0.111228
0.101	0.107357	0.117467	0.103901	0.126101	0.101231	0.111341	0.107524
0.094	0.083192	0.109612	0.079736	0.097252	0.077066	0.103486	0.082355
0.095	0.079153	0.097917	0.075697	0.095328	0.073027	0.091791	0.078652
0.095	0.075115	0.087136	0.071659	0.092355	0.068989	0.08101	0.074948
0.096	0.071077	0.077269	0.067621	0.088332	0.064951	0.071143	0.071244

0.094	0.067039	0.068317	0.063583	0.083261	0.060913	0.062191	0.067541
0.067	0.063001	0.060278	0.059545	0.07714	0.056875	0.054152	0.063837
0.051	0.040173	0.063123	0.036717	0.028706	0.034047	0.056997	0.038668
0.049	0.035867	0.046971	0.032411	0.026782	0.029741	0.040845	0.034964
0.044	0.031562	0.031733	0.028106	0.023809	0.025436	0.025607	0.031261
0.039	0.027256	0.01741	0.0238	0.019787	0.02113	0.011284	0.027557
0.035	0.02295	0.004	0.019494	0.014715	0.016824	-0.00213	0.023853
0.017	0.018644	-0.0085	0.015188	0.008594	0.012518	-0.01462	0.020149
0.321	0.268895	0.236218	0.265439	0.242029	0.26839	0.235713	0.270065
0.319	0.265659	0.237894	0.262203	0.240106	0.265155	0.237389	0.266362
0.32	0.262424	0.240484	0.258968	0.237133	0.261919	0.239979	0.262658
0.319	0.259188	0.243988	0.255732	0.23311	0.258684	0.243483	0.258954
0.321	0.255953	0.248406	0.252497	0.228038	0.255448	0.247901	0.25525
0.309	0.252717	0.253738	0.249261	0.221917	0.252213	0.253234	0.251547
0.283	0.247385	0.231798	0.24393	0.239581	0.246881	0.231294	0.248222
0.283	0.244016	0.231246	0.24056	0.237658	0.243512	0.230741	0.244518
0.28	0.240647	0.231607	0.237191	0.234684	0.240142	0.231103	0.240814
0.279	0.237278	0.232883	0.233822	0.230662	0.236773	0.232378	0.23711
0.276	0.233908	0.235073	0.230452	0.22559	0.233404	0.234568	0.233407
0.243	0.230539	0.238176	0.227083	0.219469	0.230035	0.237672	0.229703
0.199	0.225876	0.224483	0.22242	0.232237	0.225372	0.223978	0.226378
0.195	0.222373	0.221702	0.218917	0.230313	0.221869	0.221197	0.222674
0.194	0.21887	0.219835	0.215414	0.22734	0.218366	0.21933	0.21897
0.196	0.215367	0.218882	0.211911	0.223318	0.214863	0.218378	0.215267
0.193	0.211864	0.218843	0.208408	0.218246	0.21136	0.218339	0.211563
0.157	0.208361	0.219719	0.204905	0.212125	0.207857	0.219214	0.207859
0.141	0.182858	0.201163	0.179402	0.20286	0.182353	0.200659	0.18269
0.142	0.179087	0.193925	0.175631	0.200937	0.178583	0.193421	0.178987
0.143	0.175316	0.187602	0.171861	0.197964	0.174812	0.187097	0.175283
0.139	0.171546	0.182192	0.16809	0.193941	0.171041	0.181687	0.171579
0.135	0.167775	0.177696	0.164319	0.188869	0.167271	0.177192	0.167876
0.108	0.164005	0.174114	0.160549	0.182748	0.1635	0.17361	0.164172
0.092	0.139839	0.166259	0.136383	0.153899	0.139335	0.165755	0.139003
0.091	0.135801	0.154564	0.132345	0.151975	0.135297	0.15406	0.135299
0.09	0.131763	0.143784	0.128307	0.149002	0.131258	0.143279	0.131596
0.089	0.127725	0.133917	0.124269	0.14498	0.12722	0.133412	0.127892
0.084	0.123686	0.124964	0.120231	0.139908	0.123182	0.12446	0.124188
0.061	0.119648	0.116926	0.116192	0.133787	0.119144	0.116421	0.120484
0.051	0.096821	0.119771	0.093365	0.085354	0.096316	0.119266	0.095316
0.049	0.092515	0.103619	0.089059	0.08343	0.09201	0.103114	0.091612
0.048	0.088209	0.088381	0.084753	0.080457	0.087705	0.087876	0.087908
0.047	0.083903	0.074057	0.080447	0.076434	0.083399	0.073553	0.084204
0.039	0.079598	0.060648	0.076142	0.071363	0.079093	0.060143	0.080501
0.019	0.075292	0.048152	0.071836	0.065242	0.074787	0.047648	0.076797
0.175	0.214675	0.181999	0.213016	0.18781	0.221306	0.188629	0.215846
0.178	0.21144	0.183674	0.209781	0.185886	0.21807	0.190305	0.212142
0.176	0.208204	0.186264	0.206546	0.182913	0.214835	0.192895	0.208439
0.175	0.204969	0.189768	0.20331	0.178891	0.211599	0.196399	0.204735

0.178	0.201733	0.194187	0.200075	0.173819	0.208364	0.200817	0.201031
0.173	0.198498	0.199519	0.196839	0.167698	0.205129	0.206149	0.197327
0.163	0.193166	0.177579	0.191507	0.185362	0.199797	0.18421	0.194002
0.162	0.189797	0.177027	0.188138	0.183438	0.196427	0.183657	0.190299
0.163	0.186428	0.177388	0.184769	0.180465	0.193058	0.184019	0.186595
0.161	0.183058	0.178664	0.181399	0.176443	0.189689	0.185294	0.182891
0.16	0.179689	0.180853	0.17803	0.171371	0.18632	0.187484	0.179187
0.155	0.17632	0.183957	0.174661	0.16525	0.18295	0.190588	0.175484
0.149	0.171657	0.170264	0.169998	0.178018	0.178287	0.176894	0.172159
0.148	0.168154	0.167483	0.166495	0.176094	0.174784	0.174113	0.168455
0.146	0.164651	0.165616	0.162992	0.173121	0.171281	0.172246	0.164751
0.147	0.161148	0.164663	0.159489	0.169099	0.167778	0.171293	0.161047
0.145	0.157645	0.164624	0.155986	0.164027	0.164275	0.171254	0.157344
0.139	0.154142	0.165499	0.152483	0.157906	0.160772	0.17213	0.15364
0.118	0.128638	0.146944	0.126979	0.148641	0.135269	0.153575	0.128471
0.117	0.124868	0.139706	0.123209	0.146717	0.131498	0.146337	0.124767
0.116	0.121097	0.133382	0.119438	0.143744	0.127728	0.140013	0.121064
0.115	0.117327	0.127972	0.115668	0.139722	0.123957	0.134603	0.11736
0.117	0.113556	0.123477	0.111897	0.13465	0.120186	0.130107	0.113656
0.103	0.109785	0.119895	0.108126	0.128529	0.116416	0.126526	0.109953
0.088	0.08562	0.11204	0.083961	0.09968	0.09225	0.11867	0.084784
0.089	0.081582	0.100345	0.079923	0.097756	0.088212	0.106976	0.08108
0.088	0.077544	0.089564	0.075885	0.094783	0.084174	0.096195	0.077376
0.086	0.073505	0.079698	0.071846	0.090761	0.080136	0.086328	0.073673
0.085	0.069467	0.070745	0.067808	0.085689	0.076098	0.077375	0.069969
0.068	0.065429	0.062706	0.06377	0.079568	0.072059	0.069337	0.066265
0.068	0.042601	0.065551	0.040942	0.031134	0.049232	0.072182	0.041096
0.061	0.038296	0.049399	0.036637	0.02921	0.044926	0.05603	0.037393
0.065	0.03399	0.034162	0.032331	0.026237	0.04062	0.040792	0.033689
0.063	0.029684	0.019838	0.028025	0.022215	0.036315	0.026469	0.029985
0.061	0.025378	0.006428	0.023719	0.017143	0.032009	0.013059	0.026281
0.049	0.021073	-0.00607	0.019414	0.011022	0.027703	0.000564	0.022578
0.259	0.242999	0.210322	0.24134	0.216134	0.236873	0.204196	0.24417
0.258	0.239764	0.211998	0.238105	0.21421	0.233638	0.205872	0.240466
0.258	0.236528	0.214588	0.234869	0.211237	0.230402	0.208462	0.236762
0.257	0.233293	0.218092	0.231634	0.207215	0.227167	0.211966	0.233059
0.256	0.230057	0.22251	0.228398	0.202143	0.223931	0.216384	0.229355
0.249	0.226822	0.227843	0.225163	0.196022	0.220696	0.221717	0.225651
0.238	0.22149	0.205903	0.219831	0.213686	0.215364	0.199777	0.222326
0.237	0.218121	0.20535	0.216462	0.211762	0.211995	0.199224	0.218622
0.237	0.214751	0.205712	0.213092	0.208789	0.208625	0.199586	0.214919
0.236	0.211382	0.206987	0.209723	0.204767	0.205256	0.200861	0.211215
0.235	0.208013	0.209177	0.206354	0.199695	0.201887	0.203051	0.207511
0.221	0.204644	0.212281	0.202985	0.193574	0.198518	0.206155	0.203808
0.212	0.199981	0.198587	0.198322	0.206342	0.193855	0.192461	0.200482
0.211	0.196478	0.195806	0.194819	0.204418	0.190352	0.18968	0.196779
0.21	0.192975	0.193939	0.191316	0.201445	0.186849	0.187813	0.193075
0.209	0.189472	0.192987	0.187813	0.197422	0.183346	0.186861	0.189371

0.208	0.185969	0.192948	0.18431	0.192351	0.179843	0.186822	0.185668
0.195	0.182465	0.193823	0.180807	0.18623	0.176339	0.187697	0.181964
0.178	0.156962	0.175268	0.155303	0.176965	0.150836	0.169142	0.156795
0.176	0.153192	0.16803	0.151533	0.175041	0.147066	0.161904	0.153091
0.175	0.149421	0.161706	0.147762	0.172068	0.143295	0.15558	0.149388
0.175	0.14565	0.156296	0.143991	0.168046	0.139524	0.15017	0.145684
0.175	0.14188	0.151801	0.140221	0.162974	0.135754	0.145675	0.14198
0.161	0.138109	0.148219	0.13645	0.156853	0.131983	0.142093	0.138276
0.143	0.113944	0.140364	0.112285	0.128004	0.107818	0.134238	0.113108
0.144	0.109905	0.128669	0.108247	0.12608	0.103779	0.122543	0.109404
0.141	0.105867	0.117888	0.104208	0.123107	0.099741	0.111762	0.1057
0.14	0.101829	0.108021	0.10017	0.119084	0.095703	0.101895	0.101996
0.138	0.097791	0.099069	0.096132	0.114013	0.091665	0.092943	0.098293
0.126	0.093753	0.09103	0.092094	0.107892	0.087627	0.084904	0.094589
0.112	0.070925	0.093875	0.069266	0.059458	0.064799	0.087749	0.06942
0.11	0.066619	0.077723	0.06496	0.057534	0.060493	0.071597	0.065716
0.109	0.062314	0.062485	0.060655	0.054561	0.056188	0.056359	0.062013
0.108	0.058008	0.048162	0.056349	0.050539	0.051882	0.042036	0.058309
0.105	0.053702	0.034752	0.052043	0.045467	0.047576	0.028626	0.054605
0.089	0.049396	0.022257	0.047737	0.039346	0.04327	0.016131	0.050901
0.34	0.299647	0.26697	0.297988	0.272781	0.299142	0.266465	0.300817
0.34	0.296411	0.268646	0.294752	0.270858	0.295907	0.268141	0.297114
0.339	0.293176	0.271236	0.291517	0.267885	0.292671	0.270731	0.29341
0.338	0.28994	0.27474	0.288281	0.263862	0.289436	0.274235	0.289706
0.338	0.286705	0.279158	0.285046	0.258791	0.2862	0.278654	0.286003
0.306	0.283469	0.28449	0.28181	0.25267	0.282965	0.283986	0.282299
0.312	0.278138	0.262551	0.276479	0.270333	0.277633	0.262046	0.278974
0.315	0.274768	0.261998	0.273109	0.26841	0.274264	0.261494	0.27527
0.316	0.271399	0.262359	0.26974	0.265437	0.270895	0.261855	0.271566
0.317	0.26803	0.263635	0.266371	0.261414	0.267525	0.263131	0.267863
0.316	0.264661	0.265825	0.263002	0.256342	0.264156	0.26532	0.264159
0.278	0.261291	0.268929	0.259632	0.250221	0.260787	0.268424	0.260455
0.271	0.256628	0.255235	0.254969	0.262989	0.256124	0.254731	0.25713
0.271	0.253125	0.252454	0.251466	0.261065	0.252621	0.25195	0.253426
0.27	0.249622	0.250587	0.247963	0.258092	0.249118	0.250083	0.249723
0.269	0.246119	0.249634	0.24446	0.25407	0.245615	0.24913	0.246019
0.265	0.242616	0.249595	0.240957	0.248998	0.242112	0.249091	0.242315
0.221	0.239113	0.250471	0.237454	0.242877	0.238609	0.249966	0.238611
0.188	0.21361	0.231916	0.211951	0.233612	0.213105	0.231411	0.213443
0.186	0.209839	0.224678	0.20818	0.231689	0.209335	0.224173	0.209739
0.185	0.206069	0.218354	0.20441	0.228716	0.205564	0.217849	0.206035
0.185	0.202298	0.212944	0.200639	0.224693	0.201793	0.212439	0.202331
0.184	0.198527	0.208448	0.196868	0.219622	0.198023	0.207944	0.198628
0.159	0.194757	0.204867	0.193098	0.213501	0.194252	0.204362	0.194924
0.141	0.170591	0.197011	0.168932	0.184651	0.170087	0.196507	0.169755
0.141	0.166553	0.185317	0.164894	0.182728	0.166049	0.184812	0.166051
0.14	0.162515	0.174536	0.160856	0.179754	0.16201	0.174031	0.162348
0.14	0.158477	0.164669	0.156818	0.175732	0.157972	0.164164	0.158644

0.139	0.154439	0.155716	0.15278	0.17066	0.153934	0.155212	0.15494
0.118	0.1504	0.147678	0.148741	0.164539	0.149896	0.147173	0.151237
0.095	0.127573	0.150523	0.125914	0.116106	0.127068	0.150018	0.126068
0.094	0.123267	0.134371	0.121608	0.114182	0.122763	0.133866	0.122364
0.093	0.118961	0.119133	0.117302	0.111209	0.118457	0.118629	0.11866
0.093	0.114656	0.104809	0.112997	0.107186	0.114151	0.104305	0.114957
0.093	0.11035	0.0914	0.108691	0.102115	0.109845	0.090895	0.111253
0.078	0.106044	0.078904	0.104385	0.095994	0.10554	0.0784	0.107549
0.179	0.195695	0.163018	0.200971	0.168829	0.202325	0.169648	0.196865
0.18	0.192459	0.164694	0.197736	0.166906	0.19909	0.171324	0.193162
0.179	0.189224	0.167284	0.1945	0.163933	0.195854	0.173914	0.189458
0.178	0.185988	0.170788	0.191265	0.15991	0.192619	0.177418	0.185754
0.177	0.182753	0.175206	0.188029	0.154838	0.189383	0.181836	0.18205
0.166	0.179517	0.180538	0.184794	0.148717	0.186148	0.187169	0.178347
0.156	0.174185	0.158598	0.179462	0.166381	0.180816	0.165229	0.175022
0.157	0.170816	0.158046	0.176093	0.164458	0.177447	0.164676	0.171318
0.157	0.167447	0.158407	0.172724	0.161484	0.174077	0.165038	0.167614
0.155	0.164078	0.159683	0.169354	0.157462	0.170708	0.166313	0.16391
0.156	0.160708	0.161873	0.165985	0.15239	0.167339	0.168503	0.160207
0.149	0.157339	0.164976	0.162616	0.146269	0.16397	0.171607	0.156503
0.135	0.152676	0.151283	0.157953	0.159037	0.159307	0.157913	0.153178
0.136	0.149173	0.148502	0.15445	0.157113	0.155804	0.155132	0.149474
0.137	0.14567	0.146635	0.150947	0.15414	0.152301	0.153265	0.14577
0.137	0.142167	0.145682	0.147444	0.150118	0.148798	0.152313	0.142067
0.137	0.138664	0.145643	0.143941	0.145046	0.145295	0.152274	0.138363
0.125	0.135161	0.146519	0.140438	0.138925	0.141791	0.153149	0.134659
0.108	0.109658	0.127963	0.114934	0.12966	0.116288	0.134594	0.10949
0.107	0.105887	0.120725	0.111164	0.127737	0.112518	0.127356	0.105787
0.105	0.102116	0.114402	0.107393	0.124764	0.108747	0.121032	0.102083
0.104	0.098346	0.108992	0.103622	0.120741	0.104976	0.115622	0.098379
0.103	0.094575	0.104496	0.099852	0.115669	0.101206	0.111127	0.094676
0.083	0.090805	0.100915	0.096081	0.109548	0.097435	0.107545	0.090972
0.08	0.066639	0.093059	0.071916	0.080699	0.07327	0.09969	0.065803
0.079	0.062601	0.081364	0.067878	0.078775	0.069231	0.087995	0.062099
0.08	0.058563	0.070584	0.063839	0.075802	0.065193	0.077214	0.058396
0.076	0.054525	0.060717	0.059801	0.07178	0.061155	0.067347	0.054692
0.075	0.050486	0.051764	0.055763	0.066708	0.057117	0.058395	0.050988
0.061	0.046448	0.043726	0.051725	0.060587	0.053079	0.050356	0.047284
0.055	0.023621	0.046571	0.028897	0.012154	0.030251	0.053201	0.022116
0.054	0.019315	0.030419	0.024592	0.01023	0.025945	0.037049	0.018412
0.053	0.015009	0.015181	0.020286	0.007257	0.02164	0.021811	0.014708
0.05	0.010703	0.000857	0.01598	0.003234	0.017334	0.007488	0.011004
0.045	0.006398	-0.01255	0.011674	-0.00184	0.013028	-0.00592	0.007301
0.031	0.002092	-0.02505	0.007369	-0.00796	0.008722	-0.01842	0.003597
0.251	0.224019	0.191342	0.229295	0.197153	0.217893	0.185216	0.225189
0.25	0.220783	0.193018	0.22606	0.195229	0.214657	0.186891	0.221485
0.251	0.217548	0.195607	0.222824	0.192256	0.211422	0.189481	0.217782
0.249	0.214312	0.199112	0.219589	0.188234	0.208186	0.192986	0.214078

0.248	0.211077	0.20353	0.216353	0.183162	0.204951	0.197404	0.210374
0.231	0.207841	0.208862	0.213118	0.177041	0.201715	0.202736	0.206671
0.219	0.202509	0.186922	0.207786	0.194705	0.196383	0.180796	0.203345
0.218	0.19914	0.18637	0.204417	0.192781	0.193014	0.180244	0.199642
0.217	0.195771	0.186731	0.201047	0.189808	0.189645	0.180605	0.195938
0.215	0.192402	0.188007	0.197678	0.185786	0.186275	0.181881	0.192234
0.215	0.189032	0.190196	0.194309	0.180714	0.182906	0.18407	0.188531
0.196	0.185663	0.1933	0.19094	0.174593	0.179537	0.187174	0.184827
0.184	0.181	0.179607	0.186277	0.187361	0.174874	0.173481	0.181502
0.183	0.177497	0.176826	0.182774	0.185437	0.171371	0.1707	0.177798
0.18	0.173994	0.174959	0.179271	0.182464	0.167868	0.168833	0.174094
0.18	0.170491	0.174006	0.175768	0.178442	0.164365	0.16788	0.170391
0.178	0.166988	0.173967	0.172264	0.17337	0.160862	0.167841	0.166687
0.163	0.163485	0.174842	0.168761	0.167249	0.157359	0.168716	0.162983
0.15	0.137982	0.156287	0.143258	0.157984	0.131855	0.150161	0.137814
0.152	0.134211	0.149049	0.139488	0.15606	0.128085	0.142923	0.134111
0.152	0.13044	0.142725	0.135717	0.153087	0.124314	0.136599	0.130407
0.152	0.12667	0.137316	0.131946	0.149065	0.120544	0.13119	0.126703
0.151	0.122899	0.13282	0.128176	0.143993	0.116773	0.126694	0.122999
0.141	0.119128	0.129238	0.124405	0.137872	0.113002	0.123112	0.119296
0.132	0.094963	0.121383	0.10024	0.109023	0.088837	0.115257	0.094127
0.134	0.090925	0.109688	0.096201	0.107099	0.084799	0.103562	0.090423
0.133	0.086887	0.098907	0.092163	0.104126	0.080761	0.092781	0.086719
0.132	0.082848	0.089041	0.088125	0.100104	0.076722	0.082915	0.083016
0.131	0.07881	0.080088	0.084087	0.095032	0.072684	0.073962	0.079312
0.109	0.074772	0.07205	0.080049	0.088911	0.068646	0.065924	0.075608
0.098	0.051944	0.074894	0.057221	0.040477	0.045818	0.068768	0.050439
0.099	0.047639	0.058743	0.052915	0.038554	0.041513	0.052616	0.046736
0.095	0.043333	0.043505	0.04861	0.035581	0.037207	0.037379	0.043032
0.095	0.039027	0.029181	0.044304	0.031558	0.032901	0.023055	0.039328
0.095	0.034722	0.015772	0.039998	0.026486	0.028595	0.009646	0.035625
0.068	0.030416	0.003276	0.035692	0.020365	0.02429	-0.00285	0.031921
0.332	0.280666	0.247989	0.285943	0.253801	0.280162	0.247485	0.281837
0.335	0.277431	0.249665	0.282707	0.251877	0.276926	0.249161	0.278133
0.336	0.274195	0.252255	0.279472	0.248904	0.273691	0.251751	0.274429
0.331	0.27096	0.255759	0.276236	0.244882	0.270455	0.255255	0.270726
0.33	0.267724	0.260177	0.273001	0.23981	0.26722	0.259673	0.267022
0.314	0.264489	0.26551	0.269765	0.233689	0.263984	0.265005	0.263318
0.306	0.259157	0.24357	0.264434	0.251353	0.258652	0.243065	0.259993
0.305	0.255788	0.243017	0.261064	0.249429	0.255283	0.242513	0.256289
0.304	0.252418	0.243379	0.257695	0.246456	0.251914	0.242874	0.252586
0.303	0.249049	0.244654	0.254326	0.242433	0.248545	0.24415	0.248882
0.3	0.24568	0.246844	0.250956	0.237362	0.245175	0.24634	0.245178
0.269	0.242311	0.249948	0.247587	0.231241	0.241806	0.249443	0.241474
0.241	0.237648	0.236254	0.242924	0.244009	0.237143	0.23575	0.238149
0.24	0.234145	0.233473	0.239421	0.242085	0.23364	0.232969	0.234446
0.239	0.230642	0.231606	0.235918	0.239112	0.230137	0.231102	0.230742
0.238	0.227139	0.230653	0.232415	0.235089	0.226634	0.230149	0.227038

0.235	0.223635	0.230615	0.228912	0.230018	0.223131	0.23011	0.223334
0.202	0.220132	0.23149	0.225409	0.223897	0.219628	0.230986	0.219631
0.169	0.194629	0.212935	0.199906	0.214632	0.194125	0.21243	0.194462
0.168	0.190859	0.205697	0.196135	0.212708	0.190354	0.205192	0.190758
0.165	0.187088	0.199373	0.192365	0.209735	0.186583	0.198869	0.187054
0.163	0.183317	0.193963	0.188594	0.205713	0.182813	0.193459	0.183351
0.161	0.179547	0.189468	0.184823	0.200641	0.179042	0.188963	0.179647
0.151	0.175776	0.185886	0.181053	0.19452	0.175272	0.185381	0.175943
0.124	0.151611	0.178031	0.156887	0.165671	0.151106	0.177526	0.150774
0.125	0.147572	0.166336	0.152849	0.163747	0.147068	0.165831	0.147071
0.126	0.143534	0.155555	0.148811	0.160774	0.14303	0.155051	0.143367
0.124	0.139496	0.145688	0.144773	0.156751	0.138992	0.145184	0.139663
0.125	0.135458	0.136736	0.140735	0.15168	0.134953	0.136231	0.13596
0.109	0.13142	0.128697	0.136696	0.145559	0.130915	0.128193	0.132256
0.083	0.108592	0.131542	0.113869	0.097125	0.108088	0.131037	0.107087
0.084	0.104286	0.11539	0.109563	0.095201	0.103782	0.114886	0.103383
0.085	0.099981	0.100152	0.105257	0.092228	0.099476	0.099648	0.09968
0.079	0.095675	0.085829	0.100951	0.088206	0.09517	0.085324	0.095976
0.076	0.091369	0.072419	0.096646	0.083134	0.090865	0.071915	0.092272
0.065	0.087063	0.059924	0.09234	0.077013	0.086559	0.059419	0.088568
0.176	0.183041	0.150364	0.179558	0.156176	0.189671	0.156995	0.184212
0.175	0.179805	0.15204	0.176322	0.154252	0.186436	0.15867	0.180508
0.175	0.17657	0.15463	0.173087	0.151279	0.183201	0.16126	0.176804
0.173	0.173335	0.158134	0.169851	0.147256	0.179965	0.164764	0.1731
0.171	0.170099	0.162552	0.166616	0.142185	0.17673	0.169183	0.169397
0.164	0.166864	0.167884	0.16338	0.136064	0.173494	0.174515	0.165693
0.153	0.161532	0.145945	0.158049	0.153727	0.168162	0.152575	0.162368
0.151	0.158162	0.145392	0.154679	0.151804	0.164793	0.152023	0.158664
0.15	0.154793	0.145754	0.15131	0.148831	0.161424	0.152384	0.15496
0.154	0.151424	0.147029	0.147941	0.144808	0.158054	0.15366	0.151257
0.151	0.148055	0.149219	0.144572	0.139737	0.154685	0.155849	0.147553
0.142	0.144685	0.152323	0.141202	0.133616	0.151316	0.158953	0.143849
0.111	0.140022	0.138629	0.136539	0.146383	0.146653	0.14526	0.140524
0.108	0.136519	0.135848	0.133036	0.14446	0.14315	0.142479	0.13682
0.109	0.133016	0.133981	0.129533	0.141486	0.139647	0.140612	0.133117
0.11	0.129513	0.133028	0.12603	0.137464	0.136144	0.139659	0.129413
0.105	0.12601	0.13299	0.122527	0.132392	0.132641	0.13962	0.125709
0.091	0.122507	0.133865	0.119024	0.126271	0.129138	0.140495	0.122006
0.083	0.097004	0.11531	0.093521	0.117007	0.103634	0.12194	0.096837
0.081	0.093233	0.108072	0.08975	0.115083	0.099864	0.114702	0.093133
0.08	0.089463	0.101748	0.08598	0.11211	0.096093	0.108378	0.089429
0.081	0.085692	0.096338	0.082209	0.108087	0.092323	0.102968	0.085726
0.079	0.081921	0.091842	0.078438	0.103016	0.088552	0.098473	0.082022
0.052	0.078151	0.088261	0.074668	0.096895	0.084781	0.094891	0.078318
0.051	0.053985	0.080406	0.050502	0.068045	0.060616	0.087036	0.053149
0.05	0.049947	0.068711	0.046464	0.066122	0.056578	0.075341	0.049446
0.051	0.045909	0.05793	0.042426	0.063149	0.05254	0.06456	0.045742
0.048	0.041871	0.048063	0.038388	0.059126	0.048501	0.054694	0.042038

0.043	0.037833	0.03911	0.03435	0.054055	0.044463	0.045741	0.038334
0.024	0.033795	0.031072	0.030311	0.047933	0.040425	0.037702	0.034631
0.022	0.010967	0.033917	0.007484	-0.0005	0.017597	0.040547	0.009462
0.021	0.006661	0.017765	0.003178	-0.00242	0.013292	0.024395	0.005758
0.02	0.002355	0.002527	-0.00113	-0.0054	0.008986	0.009158	0.002054
0.018	-0.00195	-0.0118	-0.00543	-0.00942	0.00468	-0.00517	-0.00165
0.015	-0.00626	-0.02521	-0.00974	-0.01449	0.000374	-0.01858	-0.00535
0.009	-0.01056	-0.0377	-0.01404	-0.02061	-0.00393	-0.03107	-0.00906
0.24	0.211365	0.178688	0.207882	0.184499	0.205239	0.172562	0.212535
0.242	0.208129	0.180364	0.204646	0.182576	0.202003	0.174238	0.208832
0.243	0.204894	0.182954	0.201411	0.179603	0.198768	0.176828	0.205128
0.244	0.201658	0.186458	0.198175	0.17558	0.195532	0.180332	0.201424
0.24	0.198423	0.190876	0.19494	0.170508	0.192297	0.18475	0.19772
0.214	0.195187	0.196208	0.191704	0.164387	0.189061	0.190082	0.194017
0.203	0.189856	0.174269	0.186372	0.182051	0.183729	0.168142	0.190692
0.204	0.186486	0.173716	0.183003	0.180128	0.18036	0.16759	0.186988
0.202	0.183117	0.174077	0.179634	0.177154	0.176991	0.167951	0.183284
0.203	0.179748	0.175353	0.176265	0.173132	0.173622	0.169227	0.17958
0.205	0.176378	0.177543	0.172895	0.16806	0.170252	0.171417	0.175877
0.178	0.173009	0.180646	0.169526	0.161939	0.166883	0.17452	0.172173
0.169	0.168346	0.166953	0.164863	0.174707	0.16222	0.160827	0.168848
0.165	0.164843	0.164172	0.16136	0.172783	0.158717	0.158046	0.165144
0.164	0.16134	0.162305	0.157857	0.16981	0.155214	0.156179	0.16144
0.163	0.157837	0.161352	0.154354	0.165788	0.151711	0.155226	0.157737
0.16	0.154334	0.161313	0.150851	0.160716	0.148208	0.155187	0.154033
0.146	0.150831	0.162189	0.147348	0.154595	0.144705	0.156063	0.150329
0.123	0.125328	0.143633	0.121845	0.14533	0.119202	0.137507	0.12516
0.124	0.121557	0.136395	0.118074	0.143407	0.115431	0.130269	0.121457
0.124	0.117787	0.130072	0.114303	0.140434	0.11166	0.123946	0.117753
0.124	0.114016	0.124662	0.110533	0.136411	0.10789	0.118536	0.114049
0.125	0.110245	0.120166	0.106762	0.131339	0.104119	0.11404	0.110346
0.107	0.106475	0.116585	0.102992	0.125218	0.100349	0.110459	0.106642
0.103	0.082309	0.108729	0.078826	0.096369	0.076183	0.102603	0.081473
0.101	0.078271	0.097034	0.074788	0.094445	0.072145	0.090908	0.077769
0.1	0.074233	0.086254	0.07075	0.091472	0.068107	0.080128	0.074066
0.1	0.070195	0.076387	0.066712	0.08745	0.064069	0.070261	0.070362
0.102	0.066157	0.067434	0.062673	0.082378	0.06003	0.061308	0.066658
0.075	0.062118	0.059396	0.058635	0.076257	0.055992	0.05327	0.062954
0.051	0.039291	0.062241	0.035808	0.027824	0.033165	0.056115	0.037786
0.05	0.034985	0.046089	0.031502	0.0259	0.028859	0.039963	0.034082
0.048	0.030679	0.030851	0.027196	0.022927	0.024553	0.024725	0.030378
0.045	0.026373	0.016527	0.02289	0.018904	0.020247	0.010401	0.026674
0.044	0.022068	0.003118	0.018585	0.013833	0.015942	-0.00301	0.022971
0.015	0.017762	-0.00938	0.014279	0.007712	0.011636	-0.0155	0.019267
0.327	0.268012	0.235335	0.264529	0.241147	0.267508	0.234831	0.269183
0.328	0.264777	0.237011	0.261294	0.239223	0.264272	0.236507	0.265479
0.327	0.261541	0.239601	0.258058	0.23625	0.261037	0.239097	0.261776
0.325	0.258306	0.243105	0.254823	0.232228	0.257801	0.242601	0.258072

0.321	0.25507	0.247524	0.251587	0.227156	0.254566	0.247019	0.254368
0.307	0.251835	0.252856	0.248352	0.221035	0.251331	0.252351	0.250664
0.289	0.246503	0.230916	0.24302	0.238699	0.245999	0.230412	0.247339
0.29	0.243134	0.230364	0.239651	0.236775	0.242629	0.229859	0.243636
0.284	0.239765	0.230725	0.236281	0.233802	0.23926	0.230221	0.239932
0.283	0.236395	0.232001	0.232912	0.22978	0.235891	0.231496	0.236228
0.281	0.233026	0.23419	0.229543	0.224708	0.232522	0.233686	0.232524
0.256	0.229657	0.237294	0.226174	0.218587	0.229152	0.23679	0.228821
0.211	0.224994	0.223601	0.221511	0.231355	0.224489	0.223096	0.225496
0.212	0.221491	0.22082	0.218008	0.229431	0.220986	0.220315	0.221792
0.204	0.217988	0.218953	0.214505	0.226458	0.217483	0.218448	0.218088
0.202	0.214485	0.218	0.211002	0.222436	0.21398	0.217495	0.214384
0.201	0.210982	0.217961	0.207499	0.217364	0.210477	0.217456	0.210681
0.174	0.207479	0.218836	0.203996	0.211243	0.206974	0.218332	0.206977
0.151	0.181975	0.200281	0.178492	0.201978	0.181471	0.199777	0.181808
0.155	0.178205	0.193043	0.174722	0.200054	0.1777	0.192539	0.178104
0.154	0.174434	0.186719	0.170951	0.197081	0.17393	0.186215	0.174401
0.153	0.170664	0.181309	0.16718	0.193059	0.170159	0.180805	0.170697
0.148	0.166893	0.176814	0.16341	0.187987	0.166388	0.176309	0.166993
0.132	0.163122	0.173232	0.159639	0.181866	0.162618	0.172728	0.16329
0.105	0.138957	0.165377	0.135474	0.153017	0.138452	0.164872	0.138121
0.106	0.134919	0.153682	0.131436	0.151093	0.134414	0.153178	0.134417
0.101	0.13088	0.142901	0.127397	0.14812	0.130376	0.142397	0.130713
0.1	0.126842	0.133035	0.123359	0.144098	0.126338	0.13253	0.12701
0.097	0.122804	0.124082	0.119321	0.139026	0.1223	0.123577	0.123306
0.078	0.118766	0.116043	0.115283	0.132905	0.118261	0.115539	0.119602
0.062	0.095938	0.118888	0.092455	0.084471	0.095434	0.118384	0.094433
0.063	0.091633	0.102736	0.088149	0.082547	0.091128	0.102232	0.09073
0.061	0.087327	0.087499	0.083844	0.079574	0.086822	0.086994	0.087026
0.055	0.083021	0.073175	0.079538	0.075552	0.082517	0.07267	0.083322
0.047	0.078715	0.059765	0.075232	0.07048	0.078211	0.059261	0.079618
0.021	0.07441	0.04727	0.070926	0.064359	0.073905	0.046766	0.075915
0.184	0.215892	0.183215	0.21427	0.189026	0.222522	0.189845	0.217062
0.183	0.212656	0.184891	0.211035	0.187102	0.219287	0.191521	0.213359
0.184	0.209421	0.187481	0.207799	0.184129	0.216051	0.194111	0.209655
0.185	0.206185	0.190985	0.204564	0.180107	0.212816	0.197615	0.205951
0.183	0.20295	0.195403	0.201328	0.175035	0.20958	0.202033	0.202247
0.178	0.199714	0.200735	0.198093	0.168914	0.206345	0.207366	0.198544
0.171	0.194382	0.178795	0.192761	0.186578	0.201013	0.185426	0.195219
0.169	0.191013	0.178243	0.189392	0.184654	0.197644	0.184873	0.191515
0.17	0.187644	0.178604	0.186022	0.181681	0.194274	0.185235	0.187811
0.168	0.184275	0.17988	0.182653	0.177659	0.190905	0.18651	0.184107
0.168	0.180905	0.18207	0.179284	0.172587	0.187536	0.1887	0.180404
0.159	0.177536	0.185173	0.175915	0.166466	0.184167	0.191804	0.1767
0.156	0.172873	0.17148	0.171252	0.179234	0.179504	0.17811	0.173375
0.155	0.16937	0.168699	0.167749	0.17731	0.176001	0.175329	0.169671
0.154	0.165867	0.166832	0.164246	0.174337	0.172498	0.173462	0.165967
0.154	0.162364	0.165879	0.160742	0.170315	0.168994	0.172509	0.162264

0.153	0.158861	0.16584	0.157239	0.165243	0.165491	0.172471	0.15856
0.141	0.155358	0.166716	0.153736	0.159122	0.161988	0.173346	0.154856
0.12	0.129855	0.14816	0.128233	0.149857	0.136485	0.154791	0.129687
0.121	0.126084	0.140922	0.124462	0.147934	0.132714	0.147553	0.125984
0.119	0.122313	0.134598	0.120692	0.14496	0.128944	0.141229	0.12228
0.117	0.118543	0.129189	0.116921	0.140938	0.125173	0.135819	0.118576
0.115	0.114772	0.124693	0.113151	0.135866	0.121403	0.131323	0.114872
0.108	0.111002	0.121111	0.10938	0.129745	0.117632	0.127742	0.111169
0.096	0.086836	0.113256	0.085215	0.100896	0.093467	0.119887	0.086
0.097	0.082798	0.101561	0.081176	0.098972	0.089428	0.108192	0.082296
0.095	0.07876	0.09078	0.077138	0.095999	0.08539	0.097411	0.078592
0.094	0.074722	0.080914	0.0731	0.091977	0.081352	0.087544	0.074889
0.093	0.070683	0.071961	0.069062	0.086905	0.077314	0.078592	0.071185
0.085	0.066645	0.063923	0.065024	0.080784	0.073276	0.070553	0.067481
0.075	0.043818	0.066767	0.042196	0.03235	0.050448	0.073398	0.042312
0.072	0.039512	0.050616	0.03789	0.030427	0.046142	0.057246	0.038609
0.07	0.035206	0.035378	0.033585	0.027454	0.041837	0.042008	0.034905
0.068	0.0309	0.021054	0.029279	0.023431	0.037531	0.027685	0.031201
0.065	0.026595	0.007645	0.024973	0.01836	0.033225	0.014275	0.027498
0.044	0.022289	-0.00485	0.020667	0.012238	0.028919	0.00178	0.023794
0.265	0.244215	0.211539	0.242594	0.21735	0.238089	0.205413	0.245386
0.264	0.24098	0.213214	0.239358	0.215426	0.234854	0.207088	0.241682
0.264	0.237744	0.215804	0.236123	0.212453	0.231618	0.209678	0.237979
0.263	0.234509	0.219308	0.232888	0.208431	0.228383	0.213182	0.234275
0.264	0.231274	0.223727	0.229652	0.203359	0.225147	0.217601	0.230571
0.253	0.228038	0.229059	0.226417	0.197238	0.221912	0.222933	0.226867
0.247	0.222706	0.207119	0.221085	0.214902	0.21658	0.200993	0.223542
0.246	0.219337	0.206567	0.217715	0.212978	0.213211	0.200441	0.219839
0.245	0.215968	0.206928	0.214346	0.210005	0.209842	0.200802	0.216135
0.244	0.212598	0.208204	0.210977	0.205983	0.206472	0.202078	0.212431
0.244	0.209229	0.210393	0.207608	0.200911	0.203103	0.204267	0.208727
0.233	0.20586	0.213497	0.204238	0.19479	0.199734	0.207371	0.205024
0.219	0.201197	0.199804	0.199575	0.207558	0.195071	0.193678	0.201699
0.22	0.197694	0.197023	0.196072	0.205634	0.191568	0.190897	0.197995
0.221	0.194191	0.195156	0.192569	0.202661	0.188065	0.18903	0.194291
0.218	0.190688	0.194203	0.189066	0.198639	0.184562	0.188077	0.190587
0.217	0.187185	0.194164	0.185563	0.193567	0.181059	0.188038	0.186884
0.201	0.183682	0.195039	0.18206	0.187446	0.177556	0.188913	0.18318
0.186	0.158178	0.176484	0.156557	0.178181	0.152052	0.170358	0.158011
0.187	0.154408	0.169246	0.152786	0.176257	0.148282	0.16312	0.154307
0.185	0.150637	0.162922	0.149016	0.173284	0.144511	0.156796	0.150604
0.184	0.146867	0.157512	0.145245	0.169262	0.140741	0.151386	0.1469
0.184	0.143096	0.153017	0.141474	0.16419	0.13697	0.146891	0.143196
0.159	0.139325	0.149435	0.137704	0.158069	0.133199	0.143309	0.139493
0.148	0.11516	0.14158	0.113538	0.12922	0.109034	0.135454	0.114324
0.149	0.111122	0.129885	0.1095	0.127296	0.104996	0.123759	0.11062
0.151	0.107084	0.119104	0.105462	0.124323	0.100958	0.112978	0.106916
0.15	0.103045	0.109238	0.101424	0.120301	0.096919	0.103112	0.103213

0.149	0.099007	0.100285	0.097386	0.115229	0.092881	0.094159	0.099509
0.141	0.094969	0.092246	0.093348	0.109108	0.088843	0.08612	0.095805
0.116	0.072141	0.095091	0.07052	0.060674	0.066015	0.088965	0.070636
0.115	0.067836	0.078939	0.066214	0.05875	0.06171	0.072813	0.066933
0.112	0.06353	0.063702	0.061908	0.055777	0.057404	0.057576	0.063229
0.111	0.059224	0.049378	0.057603	0.051755	0.053098	0.043252	0.059525
0.11	0.054918	0.035968	0.053297	0.046683	0.048792	0.029842	0.055821
0.091	0.050613	0.023473	0.048991	0.040562	0.044487	0.017347	0.052118
0.345	0.300863	0.268186	0.299242	0.273998	0.300359	0.267682	0.302034
0.344	0.297628	0.269862	0.296006	0.272074	0.297123	0.269358	0.29833
0.343	0.294392	0.272452	0.292771	0.269101	0.293888	0.271947	0.294626
0.343	0.291157	0.275956	0.289535	0.265078	0.290652	0.275452	0.290923
0.345	0.287921	0.280374	0.2863	0.260007	0.287417	0.27987	0.287219
0.319	0.284686	0.285706	0.283064	0.253886	0.284181	0.285202	0.283515
0.321	0.279354	0.263767	0.277732	0.27155	0.278849	0.263262	0.28019
0.32	0.275985	0.263214	0.274363	0.269626	0.27548	0.26271	0.276486
0.32	0.272615	0.263576	0.270994	0.266653	0.272111	0.263071	0.272783
0.319	0.269246	0.264851	0.267625	0.26263	0.268742	0.264347	0.269079
0.318	0.265877	0.267041	0.264255	0.257559	0.265372	0.266537	0.265375
0.295	0.262507	0.270145	0.260886	0.251438	0.262003	0.26964	0.261671
0.285	0.257845	0.256451	0.256223	0.264205	0.25734	0.255947	0.258346
0.284	0.254341	0.25367	0.25272	0.262282	0.253837	0.253166	0.254643
0.283	0.250838	0.251803	0.249217	0.259309	0.250334	0.251299	0.250939
0.28	0.247335	0.25085	0.245714	0.255286	0.246831	0.250346	0.247235
0.28	0.243832	0.250812	0.242211	0.250214	0.243328	0.250307	0.243531
0.237	0.240329	0.251687	0.238708	0.244093	0.239825	0.251182	0.239828
0.191	0.214826	0.233132	0.213205	0.234829	0.214322	0.232627	0.214659
0.192	0.211055	0.225894	0.209434	0.232905	0.210551	0.225389	0.210955
0.195	0.207285	0.21957	0.205663	0.229932	0.20678	0.219065	0.207251
0.191	0.203514	0.21416	0.201893	0.225909	0.20301	0.213656	0.203548
0.192	0.199744	0.209664	0.198122	0.220838	0.199239	0.20916	0.199844
0.176	0.195973	0.206083	0.194351	0.214717	0.195468	0.205578	0.19614
0.149	0.171807	0.198228	0.170186	0.185868	0.171303	0.197723	0.170971
0.148	0.167769	0.186533	0.166148	0.183944	0.167265	0.186028	0.167268
0.151	0.163731	0.175752	0.16211	0.180971	0.163227	0.175247	0.163564
0.149	0.159693	0.165885	0.158071	0.176948	0.159188	0.165381	0.15986
0.148	0.155655	0.156933	0.154033	0.171877	0.15515	0.156428	0.156156
0.138	0.151617	0.148894	0.149995	0.165756	0.151112	0.14839	0.152453
0.113	0.128789	0.151739	0.127167	0.117322	0.128284	0.151234	0.127284
0.112	0.124483	0.135587	0.122862	0.115398	0.123979	0.135083	0.12358
0.112	0.120177	0.120349	0.118556	0.112425	0.119673	0.119845	0.119876
0.11	0.115872	0.106026	0.11425	0.108403	0.115367	0.105521	0.116173
0.099	0.111566	0.092616	0.109945	0.103331	0.111062	0.092112	0.112469
0.087	0.10726	0.080121	0.105639	0.09721	0.106756	0.079616	0.108765
0.189	0.196911	0.164234	0.202225	0.170046	0.203541	0.170865	0.198082
0.188	0.193675	0.16591	0.19899	0.168122	0.200306	0.17254	0.194378
0.188	0.19044	0.1685	0.195754	0.165149	0.19707	0.17513	0.190674
0.187	0.187205	0.172004	0.192519	0.161126	0.193835	0.178634	0.18697

0.186	0.183969	0.176422	0.189283	0.156055	0.1906	0.183053	0.183267
0.173	0.180734	0.181754	0.186048	0.149934	0.187364	0.188385	0.179563
0.16	0.175402	0.159815	0.180716	0.167597	0.182032	0.166445	0.176238
0.159	0.172032	0.159262	0.177347	0.165674	0.178663	0.165893	0.172534
0.158	0.168663	0.159624	0.173977	0.162701	0.175294	0.166254	0.16883
0.158	0.165294	0.160899	0.170608	0.158678	0.171924	0.16753	0.165127
0.157	0.161925	0.163089	0.167239	0.153607	0.168555	0.169719	0.161423
0.151	0.158555	0.166193	0.163869	0.147486	0.165186	0.172823	0.157719
0.137	0.153892	0.152499	0.159207	0.160253	0.160523	0.15913	0.154394
0.138	0.150389	0.149718	0.155703	0.15833	0.15702	0.156349	0.15069
0.137	0.146886	0.147851	0.1522	0.155356	0.153517	0.154482	0.146987
0.136	0.143383	0.146898	0.148697	0.151334	0.150014	0.153529	0.143283
0.137	0.13988	0.14686	0.145194	0.146262	0.146511	0.15349	0.139579
0.129	0.136377	0.147735	0.141691	0.140141	0.143008	0.154365	0.135876
0.11	0.110874	0.12918	0.116188	0.130877	0.117504	0.13581	0.110707
0.111	0.107103	0.121942	0.112417	0.128953	0.113734	0.128572	0.107003
0.109	0.103333	0.115618	0.108647	0.12598	0.109963	0.122248	0.103299
0.108	0.099562	0.110208	0.104876	0.121957	0.106193	0.116838	0.099596
0.105	0.095791	0.105712	0.101106	0.116886	0.102422	0.112343	0.095892
0.096	0.092021	0.102131	0.097335	0.110765	0.098651	0.108761	0.092188
0.091	0.067855	0.094276	0.073169	0.081915	0.074486	0.100906	0.067019
0.09	0.063817	0.082581	0.069131	0.079992	0.070448	0.089211	0.063316
0.09	0.059779	0.0718	0.065093	0.077019	0.06641	0.07843	0.059612
0.089	0.055741	0.061933	0.061055	0.072996	0.062371	0.068564	0.055908
0.087	0.051703	0.05298	0.057017	0.067924	0.058333	0.059611	0.052204
0.063	0.047665	0.044942	0.052979	0.061803	0.054295	0.051572	0.048501
0.061	0.024837	0.047787	0.030151	0.01337	0.031467	0.054417	0.023332
0.06	0.020531	0.031635	0.025845	0.011446	0.027162	0.038265	0.019628
0.062	0.016225	0.016397	0.021539	0.008473	0.022856	0.023028	0.015924
0.059	0.01192	0.002074	0.017234	0.004451	0.01855	0.008704	0.012221
0.058	0.007614	-0.01134	0.012928	-0.00062	0.014244	-0.00471	0.008517
0.036	0.003308	-0.02383	0.008622	-0.00674	0.009939	-0.0172	0.004813
0.261	0.225235	0.192558	0.230549	0.198369	0.219109	0.186432	0.226405
0.261	0.221999	0.194234	0.227313	0.196446	0.215873	0.188108	0.222702
0.262	0.218764	0.196824	0.224078	0.193473	0.212638	0.190698	0.218998
0.26	0.215528	0.200328	0.220842	0.18945	0.209402	0.194202	0.215294
0.26	0.212293	0.204746	0.217607	0.184378	0.206167	0.19862	0.21159
0.241	0.209057	0.210078	0.214371	0.178257	0.202931	0.203952	0.207887
0.239	0.203726	0.188139	0.20904	0.195921	0.197599	0.182012	0.204562
0.238	0.200356	0.187586	0.20567	0.193998	0.19423	0.18146	0.200858
0.235	0.196987	0.187947	0.202301	0.191024	0.190861	0.181821	0.197154
0.233	0.193618	0.189223	0.198932	0.187002	0.187492	0.183097	0.19345
0.231	0.190248	0.191413	0.195563	0.18193	0.184122	0.185287	0.189747
0.216	0.186879	0.194516	0.192193	0.175809	0.180753	0.18839	0.186043
0.198	0.182216	0.180823	0.18753	0.188577	0.17609	0.174697	0.182718
0.199	0.178713	0.178042	0.184027	0.186653	0.172587	0.171916	0.179014
0.198	0.17521	0.176175	0.180524	0.18368	0.169084	0.170049	0.17531
0.195	0.171707	0.175222	0.177021	0.179658	0.165581	0.169096	0.171607

0.196	0.168204	0.175183	0.173518	0.174586	0.162078	0.169057	0.167903
0.173	0.164701	0.176059	0.170015	0.168465	0.158575	0.169933	0.164199
0.161	0.139198	0.157503	0.144512	0.1592	0.133072	0.151377	0.13903
0.16	0.135427	0.150265	0.140741	0.157277	0.129301	0.144139	0.135327
0.16	0.131656	0.143942	0.136971	0.154304	0.12553	0.137816	0.131623
0.159	0.127886	0.138532	0.1332	0.150281	0.12176	0.132406	0.127919
0.153	0.124115	0.134036	0.129429	0.145209	0.117989	0.12791	0.124216
0.141	0.120345	0.130455	0.125659	0.139088	0.114219	0.124329	0.120512
0.133	0.096179	0.122599	0.101493	0.110239	0.090053	0.116473	0.095343
0.132	0.092141	0.110904	0.097455	0.108315	0.086015	0.104778	0.091639
0.131	0.088103	0.100124	0.093417	0.105342	0.081977	0.093998	0.087936
0.132	0.084065	0.090257	0.089379	0.10132	0.077939	0.084131	0.084232
0.134	0.080027	0.081304	0.085341	0.096248	0.0739	0.075178	0.080528
0.107	0.075988	0.073266	0.081302	0.090127	0.069862	0.06714	0.076824
0.101	0.053161	0.076111	0.058475	0.041694	0.047035	0.069985	0.051656
0.099	0.048855	0.059959	0.054169	0.03977	0.042729	0.053833	0.047952
0.098	0.044549	0.044721	0.049863	0.036797	0.038423	0.038595	0.044248
0.1	0.040243	0.030397	0.045558	0.032774	0.034117	0.024271	0.040544
0.095	0.035938	0.016988	0.041252	0.027703	0.029812	0.010862	0.036841
0.074	0.031632	0.004492	0.036946	0.021582	0.025506	-0.00163	0.033137
0.339	0.281882	0.249205	0.287196	0.255017	0.281378	0.248701	0.283053
0.338	0.278647	0.250881	0.283961	0.253093	0.278142	0.250377	0.279349
0.337	0.275411	0.253471	0.280726	0.25012	0.274907	0.252967	0.275646
0.338	0.272176	0.256975	0.27749	0.246098	0.271671	0.256471	0.271942
0.339	0.26894	0.261394	0.274255	0.241026	0.268436	0.260889	0.268238
0.318	0.265705	0.266726	0.271019	0.234905	0.2652	0.266221	0.264534
0.308	0.260373	0.244786	0.265687	0.252569	0.259869	0.244282	0.261209
0.308	0.257004	0.244234	0.262318	0.250645	0.256499	0.243729	0.257506
0.306	0.253635	0.244595	0.258949	0.247672	0.25313	0.244091	0.253802
0.307	0.250265	0.245871	0.255579	0.24365	0.249761	0.245366	0.250098
0.305	0.246896	0.24806	0.25221	0.238578	0.246392	0.247556	0.246394
0.286	0.243527	0.251164	0.248841	0.232457	0.243022	0.25066	0.242691
0.261	0.238864	0.237471	0.244178	0.245225	0.238359	0.236966	0.239366
0.26	0.235361	0.23469	0.240675	0.243301	0.234856	0.234185	0.235662
0.259	0.231858	0.232823	0.237172	0.240328	0.231353	0.232318	0.231958
0.258	0.228355	0.23187	0.233669	0.236306	0.22785	0.231365	0.228254
0.255	0.224852	0.231831	0.230166	0.231234	0.224347	0.231326	0.224551
0.215	0.221349	0.232706	0.226663	0.225113	0.220844	0.232202	0.220847
0.175	0.195845	0.214151	0.201159	0.215848	0.195341	0.213647	0.195678
0.174	0.192075	0.206913	0.197389	0.213924	0.19157	0.206409	0.191974
0.173	0.188304	0.200589	0.193618	0.210951	0.1878	0.200085	0.188271
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0.17	0.180763	0.190684	0.186077	0.201857	0.180258	0.190179	0.180863
0.151	0.176992	0.187102	0.182306	0.195736	0.176488	0.186598	0.17716
0.133	0.152827	0.179247	0.158141	0.166887	0.152322	0.178742	0.151991
0.136	0.148789	0.167552	0.154103	0.164963	0.148284	0.167048	0.148287
0.135	0.14475	0.156771	0.150065	0.16199	0.144246	0.156267	0.144583
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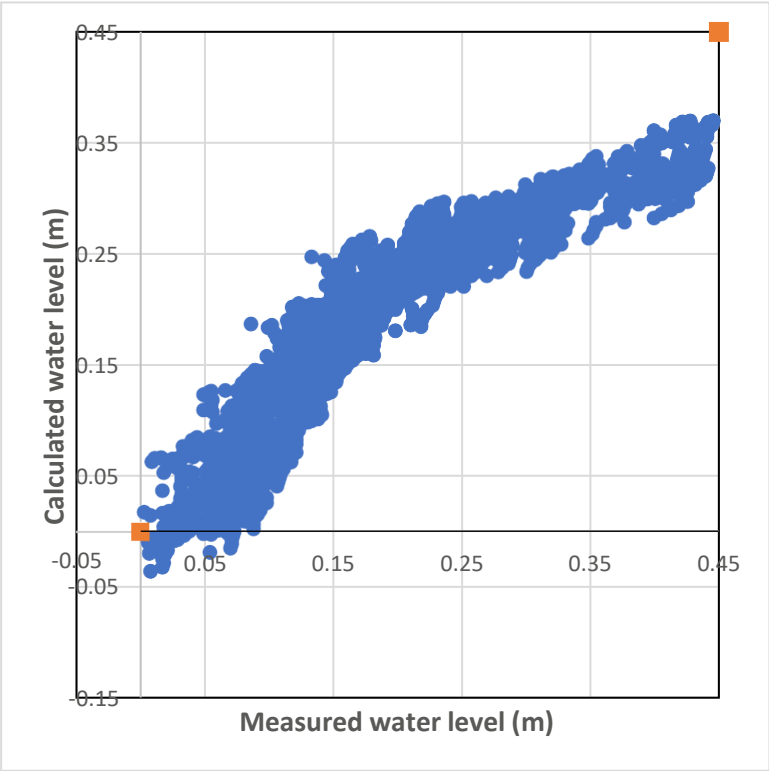
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0.101	0.109808	0.132758	0.115122	0.098341	0.109304	0.132254	0.108303
0.1	0.105503	0.116606	0.110817	0.096417	0.104998	0.116102	0.1046
0.1	0.101197	0.101369	0.106511	0.093444	0.100692	0.100864	0.100896
0.102	0.096891	0.087045	0.102205	0.089422	0.096387	0.08654	0.097192
0.101	0.092585	0.073635	0.097899	0.08435	0.092081	0.073131	0.093488
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0.184	0.184257	0.15158	0.180812	0.157392	0.190888	0.158211	0.185428
0.183	0.181022	0.153256	0.177576	0.155468	0.187652	0.159887	0.181724
0.181	0.177786	0.155846	0.174341	0.152495	0.184417	0.162477	0.17802
0.18	0.174551	0.15935	0.171105	0.148473	0.181181	0.165981	0.174317
0.179	0.171315	0.163768	0.16787	0.143401	0.177946	0.170399	0.170613
0.162	0.16808	0.169101	0.164634	0.13728	0.17471	0.175731	0.166909
0.157	0.162748	0.147161	0.159302	0.154944	0.169378	0.153791	0.163584
0.155	0.159379	0.146608	0.155933	0.15302	0.166009	0.153239	0.15988
0.152	0.156009	0.14697	0.152564	0.150047	0.16264	0.1536	0.156177
0.151	0.15264	0.148245	0.149194	0.146024	0.159271	0.154876	0.152473
0.15	0.149271	0.150435	0.145825	0.140953	0.155901	0.157066	0.148769
0.147	0.145902	0.153539	0.142456	0.134832	0.152532	0.160169	0.145065
0.121	0.141239	0.139845	0.137793	0.1476	0.147869	0.146476	0.14174
0.12	0.137736	0.137064	0.13429	0.145676	0.144366	0.143695	0.138037
0.119	0.134233	0.135197	0.130787	0.142703	0.140863	0.141828	0.134333
0.117	0.13073	0.134244	0.127284	0.13868	0.13736	0.140875	0.130629
0.115	0.127226	0.134206	0.123781	0.133609	0.133857	0.140836	0.126925
0.101	0.123723	0.135081	0.120278	0.127488	0.130354	0.141712	0.123222
0.085	0.09822	0.116526	0.094774	0.118223	0.104851	0.123156	0.098053
0.084	0.09445	0.109288	0.091004	0.116299	0.10108	0.115918	0.094349
0.083	0.090679	0.102964	0.087233	0.113326	0.097309	0.109594	0.090645
0.081	0.086908	0.097554	0.083463	0.109304	0.093539	0.104185	0.086942
0.08	0.083138	0.093059	0.079692	0.104232	0.089768	0.099689	0.083238
0.066	0.079367	0.089477	0.075921	0.098111	0.085998	0.096107	0.079534
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0.057	0.051163	0.069927	0.047718	0.067338	0.057794	0.076557	0.050662
0.055	0.047125	0.059146	0.04368	0.064365	0.053756	0.065777	0.046958
0.051	0.043087	0.049279	0.039641	0.060342	0.049718	0.05591	0.043254
0.05	0.039049	0.040327	0.035603	0.055271	0.045679	0.046957	0.039551
0.032	0.035011	0.032288	0.031565	0.04915	0.041641	0.038919	0.035847
0.028	0.012183	0.035133	0.008737	0.000716	0.018814	0.041763	0.010678
0.025	0.007877	0.018981	0.004432	-0.00121	0.014508	0.025612	0.006974
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0.023	-0.00073	-0.01058	-0.00418	-0.0082	0.005896	-0.00395	-0.00043
0.02	-0.00504	-0.02399	-0.00849	-0.01327	0.001591	-0.01736	-0.00414
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0.198	0.174225	0.181863	0.17078	0.163156	0.168099	0.175737	0.173389
0.184	0.169562	0.168169	0.166117	0.175923	0.163436	0.162043	0.170064
0.181	0.166059	0.165388	0.162614	0.174	0.159933	0.159262	0.16636
0.18	0.162556	0.163521	0.159111	0.171027	0.15643	0.157395	0.162657
0.178	0.159053	0.162568	0.155608	0.167004	0.152927	0.156442	0.158953
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0.154	0.152047	0.163405	0.148602	0.155811	0.145921	0.157279	0.151546
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0.145	0.122773	0.137612	0.119328	0.144623	0.116647	0.131486	0.122673
0.144	0.119003	0.131288	0.115557	0.14165	0.112877	0.125162	0.118969
0.143	0.115232	0.125878	0.111786	0.137627	0.109106	0.119752	0.115266
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0.33	0.259522	0.244322	0.256077	0.233444	0.259018	0.243817	0.259288
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0.246	0.22621	0.224817	0.222764	0.232571	0.225706	0.224312	0.226712
0.245	0.222707	0.222036	0.219261	0.230647	0.222203	0.221531	0.223008
0.244	0.219204	0.220169	0.215758	0.227674	0.2187	0.219664	0.219304
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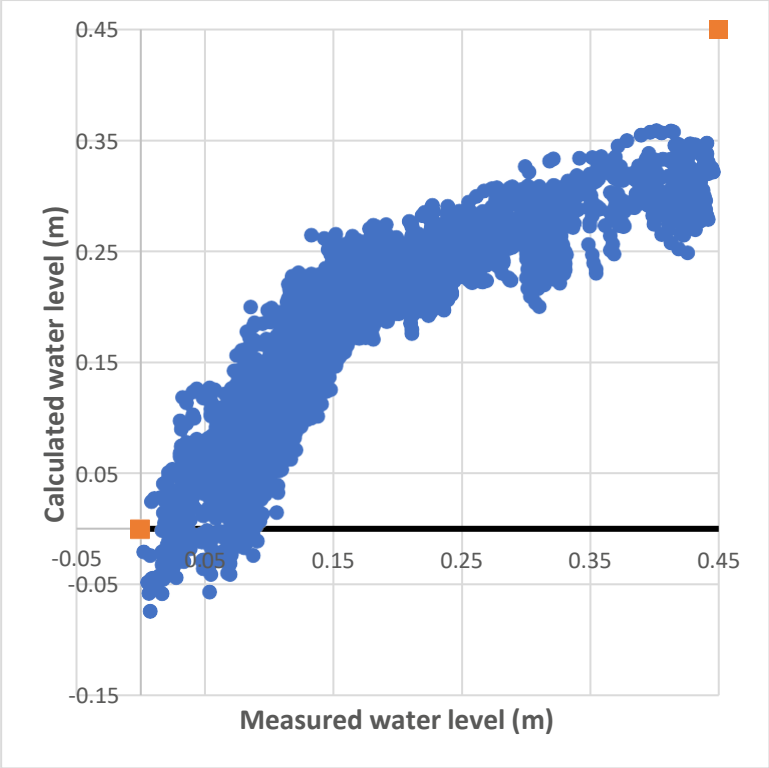
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0.133	0.164339	0.174448	0.160893	0.183082	0.163834	0.173944	0.164506
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0.119	0.128059	0.134251	0.124613	0.145314	0.127554	0.133746	0.128226
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0.087	0.119982	0.11726	0.116537	0.134121	0.119478	0.116755	0.120818
0.075	0.097154	0.120104	0.093709	0.085687	0.09665	0.1196	0.095649
0.071	0.092849	0.103953	0.089403	0.083764	0.092344	0.103448	0.091946
0.069	0.088543	0.088715	0.085097	0.080791	0.088039	0.08821	0.088242
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0.063	0.079932	0.060982	0.076486	0.071696	0.079427	0.060477	0.080835
0.041	0.075626	0.048486	0.07218	0.065575	0.075121	0.047982	0.077131

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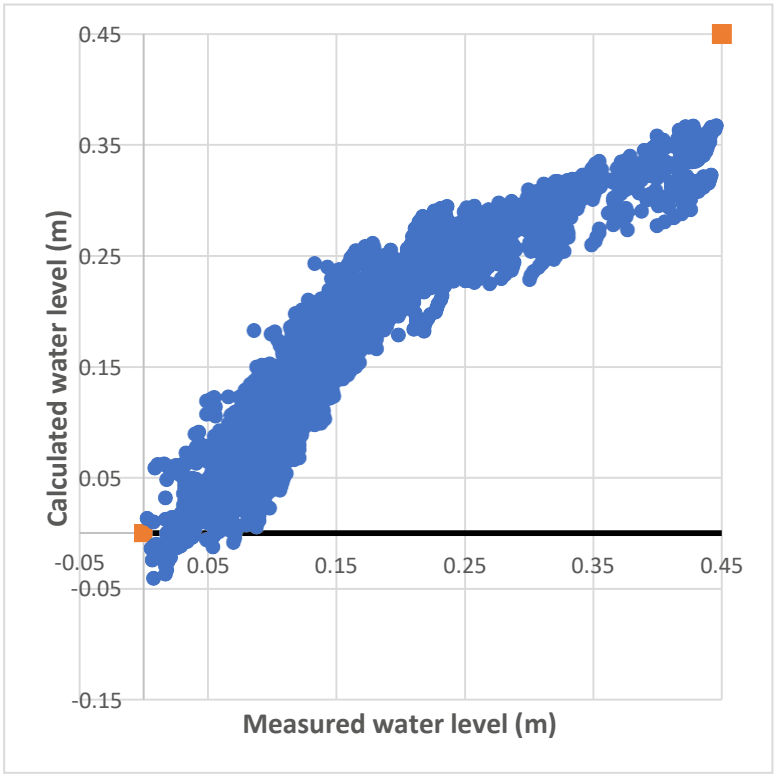
Appendix V



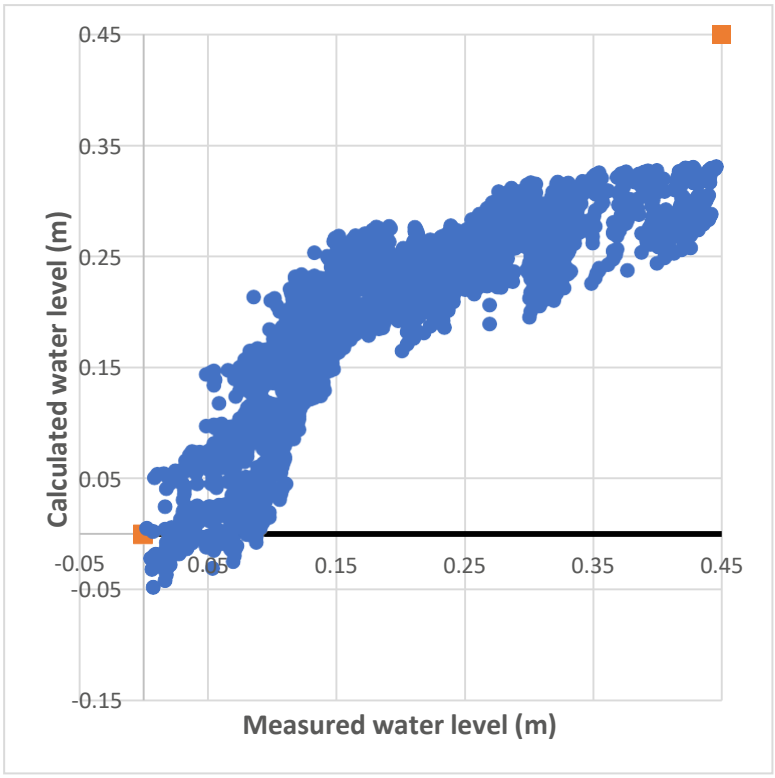
Measured water level vs calculated water level medium rain test results for Model1



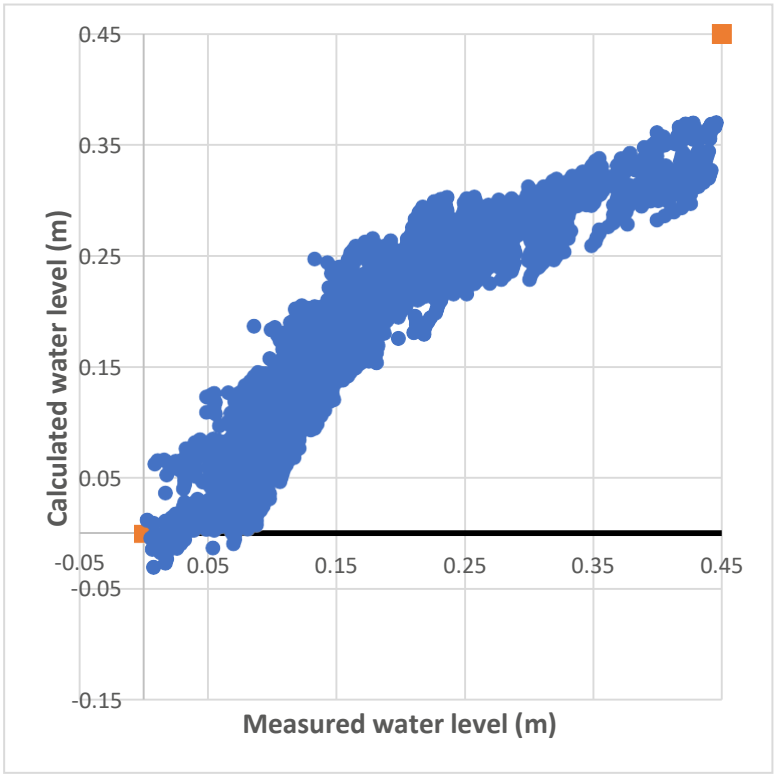
Measured water level vs calculated water level medium rain test results for Model2



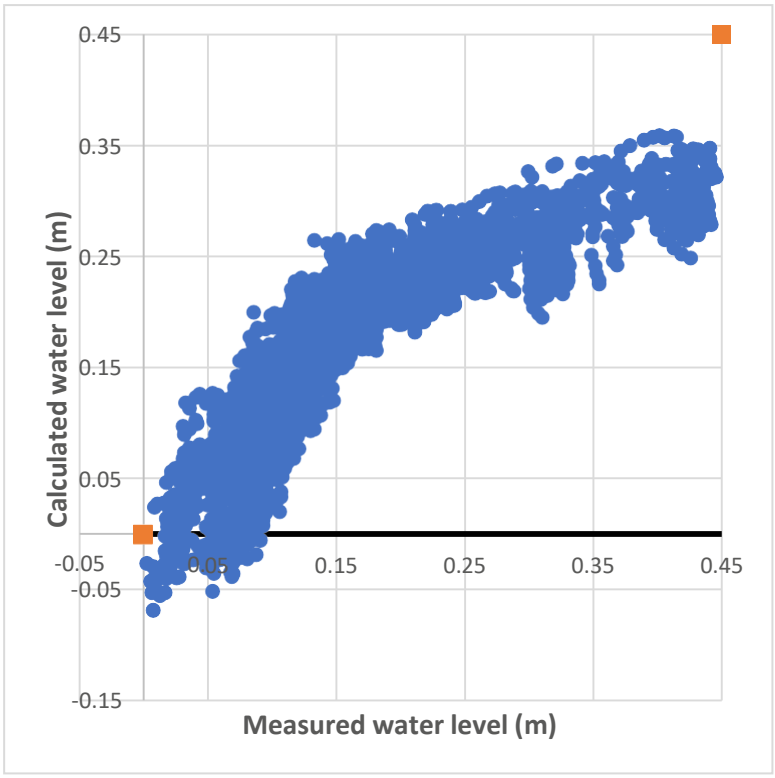
Measured water level vs calculated water level medium rain test results for Model3



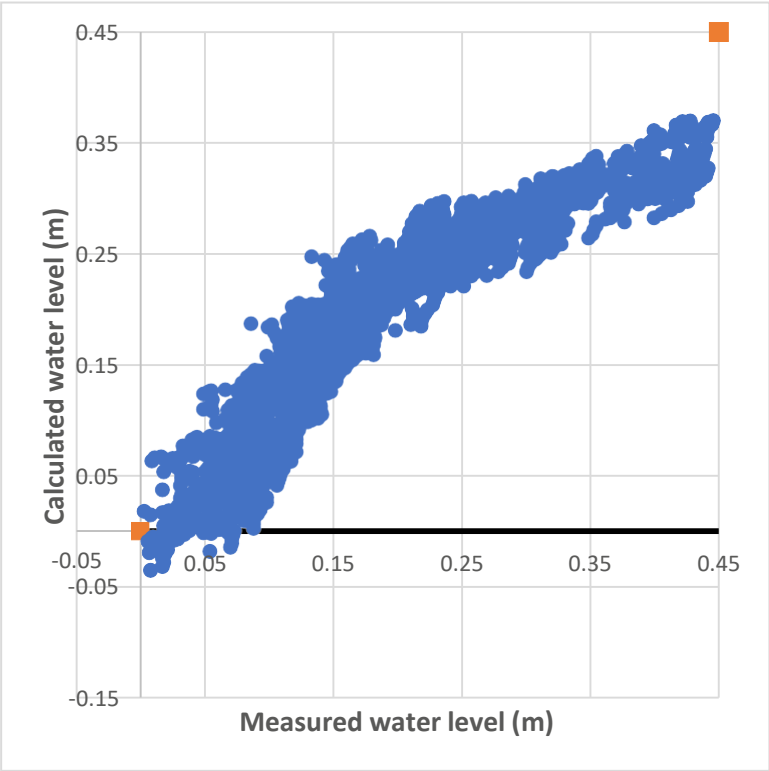
Measured water level vs calculated water level medium rain test results for Model4



Measured water level vs calculated water level medium rain test results for Model5



Measured water level vs calculated water level medium rain test results for Model6



Measured water level vs calculated water level medium rain test results for Model7

Medium rain (45mm/hr)

	Model number						
	1	2	3	4	5	6	7
y	Negative predictions						
	39	97	47	79	29	94	39
Measure water level (m)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)
0.21	0.26683	0.218713	0.263382	0.227578	0.272387	0.224271	0.266956
0.208	0.26319	0.222276	0.25974	0.22565	0.268745	0.227834	0.263264
0.205	0.25955	0.227783	0.256099	0.222671	0.265104	0.23334	0.259572
0.207	0.2559	0.235232	0.252457	0.218641	0.261462	0.240789	0.25588
0.208	0.25226	0.244625	0.248815	0.213559	0.25782	0.250183	0.252188
0.199	0.24862	0.255962	0.245174	0.207426	0.254179	0.261519	0.248495
0.18	0.23675	0.212387	0.233299	0.224258	0.242304	0.217944	0.236837
0.181	0.23309	0.212551	0.229643	0.222331	0.238648	0.218108	0.233145
0.179	0.22943	0.214658	0.225987	0.219352	0.234992	0.220215	0.229453
0.18	0.22578	0.218709	0.222331	0.215321	0.231336	0.224266	0.225761
0.179	0.22212	0.224703	0.218675	0.21024	0.22768	0.23026	0.222069
0.163	0.21847	0.23264	0.215019	0.204107	0.224024	0.238197	0.218377
0.162	0.20666	0.202472	0.203216	0.214299	0.212221	0.208029	0.206718
0.163	0.20299	0.199237	0.199546	0.212372	0.208551	0.204794	0.203026
0.163	0.19932	0.197945	0.195876	0.209393	0.204881	0.203502	0.199334
0.162	0.19565	0.198597	0.192205	0.205363	0.20121	0.204154	0.195642
0.161	0.19198	0.201192	0.188535	0.200281	0.19754	0.206749	0.19195
0.139	0.18831	0.20573	0.184864	0.194148	0.193869	0.211287	0.188258
0.145	0.1465	0.171877	0.143051	0.174465	0.152056	0.177434	0.146481
0.146	0.1428	0.161843	0.139352	0.172537	0.148357	0.1674	0.142789
0.144	0.1391	0.153753	0.135652	0.169558	0.144657	0.159311	0.139097
0.144	0.1354	0.147607	0.131953	0.165528	0.140958	0.153164	0.135405
0.147	0.1317	0.143404	0.128254	0.160446	0.137259	0.148961	0.131713
0.121	0.128	0.141144	0.124555	0.154313	0.13356	0.146701	0.12802
0.12	0.08633	0.126927	0.082885	0.108074	0.09189	0.132484	0.086243
0.121	0.08261	0.110095	0.079157	0.106146	0.088162	0.115652	0.082551
0.121	0.07888	0.095207	0.075429	0.103167	0.084434	0.100764	0.078859
0.12	0.07515	0.082263	0.071701	0.099137	0.080706	0.08782	0.075167
0.121	0.07142	0.071262	0.067973	0.094056	0.076978	0.076819	0.071475
0.11	0.06769	0.062204	0.064245	0.087922	0.07325	0.067761	0.067783
0.098	0.02617	0.067622	0.02272	0.015127	0.031725	0.073179	0.026006
0.09	0.02241	0.043993	0.018963	0.013199	0.027968	0.04955	0.022314
0.09	0.01865	0.022307	0.015206	0.01022	0.024211	0.027864	0.018622
0.09	0.0149	0.002564	0.011449	0.00619	0.020454	0.008121	0.01493

0.08	0.01114	-0.01523	0.007692	0.001108	0.016697	-0.00968	0.011238
0.07	0.00738	-0.03109	0.003936	-0.00502	0.012941	-0.02553	0.007545
0.302	0.29099	0.242874	0.287543	0.251739	0.285716	0.237599	0.291117
0.301	0.28735	0.246437	0.283901	0.249811	0.282074	0.241162	0.287425
0.302	0.28371	0.251943	0.280259	0.246832	0.278432	0.246668	0.283733
0.3	0.28007	0.259393	0.276618	0.242802	0.274791	0.254118	0.28004
0.298	0.27642	0.268786	0.272976	0.23772	0.271149	0.263511	0.276348
0.269	0.27278	0.280123	0.269335	0.231587	0.267507	0.274848	0.272656
0.259	0.26091	0.236548	0.25746	0.248419	0.255633	0.231273	0.260998
0.261	0.25725	0.236712	0.253804	0.246491	0.251977	0.231437	0.257306
0.26	0.2536	0.238819	0.250148	0.243513	0.248321	0.233544	0.253614
0.261	0.24994	0.24287	0.246492	0.239482	0.244665	0.237595	0.249922
0.258	0.24628	0.248864	0.242836	0.234401	0.241009	0.243589	0.24623
0.237	0.24263	0.256801	0.23918	0.228267	0.237353	0.251526	0.242538
0.21	0.23083	0.226633	0.227377	0.23846	0.22555	0.221358	0.230879
0.21	0.22715	0.223398	0.223707	0.236533	0.22188	0.218123	0.227187
0.209	0.22348	0.222106	0.220036	0.233554	0.218209	0.216831	0.223495
0.208	0.21981	0.222758	0.216366	0.229524	0.214539	0.217483	0.219803
0.205	0.21614	0.225353	0.212695	0.224442	0.210868	0.220078	0.216111
0.195	0.21247	0.229891	0.209025	0.218309	0.207198	0.224616	0.212419
0.15	0.17066	0.196037	0.167212	0.198626	0.165385	0.190762	0.170642
0.151	0.16696	0.186004	0.163513	0.196698	0.161685	0.180729	0.16695
0.146	0.16326	0.177914	0.159813	0.193719	0.157986	0.172639	0.163258
0.149	0.15956	0.171768	0.156114	0.189689	0.154287	0.166493	0.159565
0.152	0.15586	0.167565	0.152415	0.184607	0.150588	0.16229	0.155873
0.141	0.15216	0.165305	0.148715	0.178474	0.146888	0.16003	0.152181
0.121	0.11049	0.151087	0.107046	0.132235	0.105219	0.145812	0.110404
0.119	0.10677	0.134256	0.103318	0.130307	0.101491	0.128981	0.106712
0.12	0.10304	0.119368	0.09959	0.127328	0.097763	0.114093	0.10302
0.12	0.09931	0.106424	0.095862	0.123298	0.094035	0.101149	0.099328
0.119	0.09558	0.095422	0.092134	0.118216	0.090307	0.090147	0.095636
0.112	0.09185	0.086365	0.088406	0.112083	0.086579	0.08109	0.091944
0.09	0.05033	0.091783	0.046881	0.039287	0.045054	0.086508	0.050167
0.09	0.04657	0.068154	0.043124	0.03736	0.041297	0.062879	0.046475
0.09	0.04281	0.046468	0.039367	0.034381	0.03754	0.041193	0.042782
0.09	0.03906	0.026725	0.03561	0.030351	0.033783	0.02145	0.03909
0.08	0.0353	0.008926	0.031853	0.025269	0.030026	0.003651	0.035398
0.07	0.03154	-0.00693	0.028096	0.019136	0.026269	-0.01221	0.031706
0.396	0.33931	0.291196	0.335865	0.30006	0.33903	0.290914	0.339438
0.395	0.33567	0.294759	0.332223	0.298133	0.335389	0.294477	0.335746
0.395	0.33203	0.300265	0.328581	0.295154	0.331747	0.299983	0.332054
0.398	0.32839	0.307715	0.32494	0.291123	0.328105	0.307433	0.328362
0.396	0.32475	0.317108	0.321298	0.286042	0.324464	0.316826	0.32467
0.365	0.3211	0.328444	0.317656	0.279909	0.320822	0.328162	0.320978
0.33	0.30923	0.28487	0.305782	0.296741	0.308947	0.284588	0.30932
0.33	0.30557	0.285034	0.302126	0.294813	0.305291	0.284751	0.305628
0.322	0.30192	0.287141	0.29847	0.291834	0.301635	0.286859	0.301935

0.323	0.29826	0.291191	0.294814	0.287804	0.297979	0.290909	0.298243
0.32	0.29461	0.297185	0.291158	0.282722	0.294323	0.296903	0.294551
0.295	0.29095	0.305123	0.287501	0.276589	0.290667	0.304841	0.290859
0.27	0.27915	0.274955	0.275699	0.286782	0.278865	0.274673	0.279201
0.269	0.27548	0.27172	0.272029	0.284854	0.275194	0.271437	0.275509
0.27	0.27181	0.270428	0.268358	0.281876	0.271524	0.270146	0.271817
0.269	0.26814	0.271079	0.264688	0.277845	0.267853	0.270797	0.268125
0.27	0.26447	0.273674	0.261017	0.272764	0.264183	0.273392	0.264433
0.248	0.26079	0.278213	0.257347	0.266631	0.260512	0.277931	0.260741
0.156	0.21898	0.244359	0.215534	0.246947	0.218699	0.244077	0.218963
0.155	0.21528	0.234326	0.211834	0.24502	0.215	0.234044	0.215271
0.154	0.21158	0.226236	0.208135	0.242041	0.211301	0.225954	0.211579
0.155	0.20788	0.22009	0.204436	0.238011	0.207601	0.219807	0.207887
0.159	0.20418	0.215886	0.200736	0.232929	0.203902	0.215604	0.204195
0.143	0.20049	0.213627	0.197037	0.226796	0.200203	0.213345	0.200503
0.122	0.15882	0.199409	0.155368	0.180557	0.158534	0.199127	0.158726
0.122	0.15509	0.182578	0.15164	0.178629	0.154806	0.182296	0.155034
0.123	0.15136	0.16769	0.147912	0.17565	0.151078	0.167408	0.151342
0.125	0.14763	0.154745	0.144184	0.17162	0.14735	0.154463	0.14765
0.125	0.1439	0.143744	0.140456	0.166538	0.143621	0.143462	0.143958
0.1	0.14018	0.134686	0.136728	0.160405	0.139893	0.134404	0.140266
0.08	0.09865	0.140105	0.095202	0.087609	0.098368	0.139823	0.098488
0.08	0.09489	0.116475	0.091446	0.085682	0.094611	0.116193	0.094796
0.08	0.09114	0.094789	0.087689	0.082703	0.090854	0.094507	0.091104
0.08	0.08738	0.075047	0.083932	0.078672	0.087098	0.074765	0.087412
0.08	0.08362	0.057248	0.080175	0.073591	0.083341	0.056965	0.08372
0.07	0.07987	0.041392	0.076418	0.067458	0.079584	0.04111	0.080028
0.211	0.25828	0.210168	0.261597	0.219032	0.263842	0.215725	0.258411
0.211	0.25464	0.213731	0.257956	0.217105	0.2602	0.219288	0.254718
0.209	0.251	0.219237	0.254314	0.214126	0.256558	0.224795	0.251026
0.208	0.24736	0.226687	0.250672	0.210096	0.252917	0.232244	0.247334
0.205	0.24372	0.23608	0.247031	0.205014	0.249275	0.241637	0.243642
0.2	0.24008	0.247417	0.243389	0.198881	0.245633	0.252974	0.23995
0.194	0.2282	0.203842	0.231515	0.215713	0.233759	0.209399	0.228292
0.194	0.22455	0.204006	0.227859	0.213785	0.230103	0.209563	0.2246
0.192	0.22089	0.206113	0.224203	0.210806	0.226447	0.21167	0.220908
0.192	0.21723	0.210164	0.220547	0.206776	0.222791	0.215721	0.217216
0.184	0.21358	0.216158	0.21689	0.201694	0.219135	0.221715	0.213524
0.178	0.20992	0.224095	0.213234	0.195561	0.215479	0.229652	0.209831
0.181	0.19812	0.193927	0.201432	0.205754	0.203676	0.199484	0.198173
0.182	0.19445	0.190692	0.197761	0.203827	0.200006	0.196249	0.194481
0.181	0.19078	0.1894	0.194091	0.200848	0.196335	0.194957	0.190789
0.182	0.18711	0.190052	0.190421	0.196817	0.192665	0.195609	0.187097
0.179	0.18344	0.192647	0.18675	0.191736	0.188994	0.198204	0.183405
0.163	0.17977	0.197185	0.18308	0.185603	0.185324	0.202742	0.179713
0.143	0.13795	0.163331	0.141266	0.16592	0.143511	0.168888	0.137936
0.142	0.13425	0.153298	0.137567	0.163992	0.139811	0.158855	0.134243
0.142	0.13055	0.145208	0.133868	0.161013	0.136112	0.150765	0.130551

0.142	0.12686	0.139062	0.130169	0.156983	0.132413	0.144619	0.126859
0.141	0.12316	0.134859	0.126469	0.151901	0.128714	0.140416	0.123167
0.119	0.11946	0.132599	0.12277	0.145768	0.125014	0.138156	0.119475
0.118	0.07779	0.118381	0.081101	0.099529	0.083345	0.123938	0.077698
0.117	0.07406	0.10155	0.077373	0.097601	0.079617	0.107107	0.074006
0.117	0.07033	0.086662	0.073645	0.094622	0.075889	0.092219	0.070314
0.117	0.0666	0.073718	0.069917	0.090592	0.072161	0.079275	0.066622
0.117	0.06288	0.062716	0.066189	0.08551	0.068433	0.068274	0.06293
0.11	0.05915	0.053659	0.062461	0.079377	0.064705	0.059216	0.059238
0.09	0.01762	0.059077	0.020935	0.006581	0.02318	0.064634	0.01746
0.089	0.01387	0.035448	0.017179	0.004654	0.019423	0.041005	0.013768
0.088	0.01011	0.013762	0.013422	0.001675	0.015666	0.019319	0.010076
0.088	0.00635	-0.00598	0.009665	-0.00236	0.011909	-0.00042	0.006384
0.088	0.0026	-0.02378	0.005908	-0.00744	0.008152	-0.01822	0.002692
0.068	-0.00116	-0.03964	0.002151	-0.01357	0.004395	-0.03408	-0.001
0.303	0.28245	0.234329	0.285758	0.243193	0.27717	0.229054	0.282571
0.302	0.2788	0.237892	0.282117	0.241266	0.273529	0.232617	0.278879
0.303	0.27516	0.243398	0.278475	0.238287	0.269887	0.238123	0.275187
0.301	0.27152	0.250848	0.274833	0.234256	0.266245	0.245573	0.271495
0.301	0.26788	0.260241	0.271192	0.229175	0.262604	0.254966	0.267803
0.267	0.26424	0.271577	0.26755	0.223042	0.258962	0.266302	0.264111
0.258	0.25236	0.228003	0.255676	0.239874	0.247088	0.222728	0.252453
0.257	0.24871	0.228167	0.252019	0.237946	0.243432	0.222892	0.248761
0.257	0.24505	0.230274	0.248363	0.234967	0.239775	0.224999	0.245069
0.256	0.24139	0.234324	0.244707	0.230937	0.236119	0.229049	0.241376
0.256	0.23774	0.240318	0.241051	0.225855	0.232463	0.235043	0.237684
0.235	0.23408	0.248256	0.237395	0.219722	0.228807	0.242981	0.233992
0.201	0.22228	0.218088	0.225593	0.229915	0.217005	0.212813	0.222334
0.199	0.21861	0.214853	0.221922	0.227988	0.213334	0.209578	0.218642
0.197	0.21494	0.213561	0.218252	0.225009	0.209664	0.208286	0.21495
0.195	0.21127	0.214212	0.214581	0.220978	0.205993	0.208937	0.211258
0.193	0.2076	0.216807	0.210911	0.215897	0.202323	0.211532	0.207566
0.175	0.20393	0.221346	0.20724	0.209764	0.198653	0.216071	0.203874
0.149	0.16211	0.187492	0.165427	0.19008	0.156839	0.182217	0.162096
0.147	0.15842	0.177459	0.161728	0.188153	0.15314	0.172184	0.158404
0.145	0.15472	0.169369	0.158029	0.185174	0.149441	0.164094	0.154712
0.144	0.15102	0.163223	0.154329	0.181144	0.145742	0.157948	0.15102
0.142	0.14732	0.159019	0.15063	0.176062	0.142042	0.153744	0.147328
0.139	0.14362	0.15676	0.146931	0.169929	0.138343	0.151485	0.143636
0.119	0.10195	0.142542	0.105262	0.12369	0.096674	0.137267	0.101859
0.119	0.09822	0.125711	0.101534	0.121762	0.092946	0.120436	0.098167
0.119	0.09449	0.110823	0.097806	0.118783	0.089218	0.105548	0.094475
0.118	0.09076	0.097878	0.094078	0.114753	0.08549	0.092603	0.090783
0.118	0.08704	0.086877	0.09035	0.109671	0.081762	0.081602	0.087091
0.111	0.08331	0.077819	0.086621	0.103538	0.078033	0.072544	0.083399
0.095	0.04178	0.083238	0.045096	0.030742	0.036508	0.077963	0.041621
0.085	0.03803	0.059608	0.041339	0.028815	0.032751	0.054333	0.037929

0.085	0.03427	0.037922	0.037583	0.025836	0.028995	0.032647	0.034237
0.085	0.03051	0.01818	0.033826	0.021805	0.025238	0.012905	0.030545
0.084	0.02676	0.000381	0.030069	0.016724	0.021481	-0.00489	0.026853
0.075	0.023	-0.01548	0.026312	0.010591	0.017724	-0.02075	0.023161
0.406	0.33077	0.282651	0.33408	0.291515	0.330485	0.282369	0.330893
0.405	0.32713	0.286214	0.330438	0.289587	0.326843	0.285932	0.327201
0.405	0.32348	0.29172	0.326797	0.286608	0.323202	0.291438	0.323509
0.399	0.31984	0.29917	0.323155	0.282578	0.31956	0.298887	0.319817
0.399	0.3162	0.308563	0.319513	0.277497	0.315918	0.308281	0.316125
0.365	0.31256	0.319899	0.315872	0.271363	0.312277	0.319617	0.312433
0.31	0.30068	0.276324	0.303997	0.288195	0.300402	0.276042	0.300774
0.305	0.29703	0.276488	0.300341	0.286268	0.296746	0.276206	0.297082
0.306	0.29337	0.278596	0.296685	0.283289	0.29309	0.278313	0.29339
0.311	0.28972	0.282646	0.293029	0.279259	0.289434	0.282364	0.289698
0.313	0.28606	0.28864	0.289373	0.274177	0.285778	0.288358	0.286006
0.285	0.2824	0.296578	0.285717	0.268044	0.282122	0.296295	0.282314
0.265	0.2706	0.26641	0.273915	0.278237	0.270319	0.266127	0.270656
0.265	0.26693	0.263174	0.270244	0.276309	0.266649	0.262892	0.266964
0.263	0.26326	0.261883	0.266574	0.27333	0.262979	0.2616	0.263271
0.265	0.25959	0.262534	0.262903	0.2693	0.259308	0.262252	0.259579
0.261	0.25592	0.265129	0.259233	0.264218	0.255638	0.264847	0.255887
0.242	0.25225	0.269667	0.255562	0.258085	0.251967	0.269385	0.252195
0.152	0.21044	0.235814	0.213749	0.238402	0.210154	0.235532	0.210418
0.151	0.20674	0.225781	0.21005	0.236475	0.206455	0.225498	0.206726
0.154	0.20304	0.217691	0.20635	0.233496	0.202755	0.217409	0.203034
0.151	0.19934	0.211544	0.202651	0.229465	0.199056	0.211262	0.199342
0.15	0.19564	0.207341	0.198952	0.224384	0.195357	0.207059	0.19565
0.141	0.19194	0.205081	0.195253	0.218251	0.191658	0.204799	0.191958
0.121	0.15027	0.190864	0.153583	0.172011	0.149988	0.190582	0.150181
0.121	0.14654	0.174033	0.149855	0.170084	0.14626	0.17375	0.146489
0.12	0.14281	0.159145	0.146127	0.167105	0.142532	0.158863	0.142796
0.119	0.13909	0.1462	0.142399	0.163074	0.138804	0.145918	0.139104
0.119	0.13536	0.135199	0.138671	0.157993	0.135076	0.134917	0.135412
0.11	0.13163	0.126141	0.134943	0.15186	0.131348	0.125859	0.13172
0.082	0.09011	0.13156	0.093418	0.079064	0.089823	0.131277	0.089943
0.081	0.08635	0.10793	0.089661	0.077136	0.086066	0.107648	0.086251
0.081	0.08259	0.086244	0.085904	0.074157	0.082309	0.085962	0.082559
0.081	0.07883	0.066502	0.082147	0.070127	0.078552	0.066219	0.078867
0.079	0.07508	0.048702	0.078391	0.065045	0.074795	0.04842	0.075175
0.071	0.07132	0.032846	0.074634	0.058912	0.071039	0.032564	0.071483
0.212	0.24119	0.193078	0.247321	0.201942	0.246751	0.198635	0.24132
0.212	0.23755	0.196641	0.24368	0.200014	0.243109	0.202198	0.237628
0.211	0.23391	0.202147	0.240038	0.197035	0.239468	0.207704	0.233936
0.211	0.23027	0.209596	0.236396	0.193005	0.235826	0.215154	0.230244
0.208	0.22663	0.21899	0.232755	0.187923	0.232184	0.224547	0.226552
0.205	0.22299	0.230326	0.229113	0.18179	0.228543	0.235883	0.22286
0.192	0.21111	0.186751	0.217239	0.198622	0.216668	0.192308	0.211201
0.191	0.20746	0.186915	0.213583	0.196695	0.213012	0.192472	0.207509

0.189	0.2038	0.189022	0.209926	0.193716	0.209356	0.19458	0.203817
0.187	0.20014	0.193073	0.20627	0.189686	0.2057	0.19863	0.200125
0.183	0.19649	0.199067	0.202614	0.184604	0.202044	0.204624	0.196433
0.175	0.19283	0.207004	0.198958	0.178471	0.198388	0.212562	0.192741
0.174	0.18103	0.176836	0.187156	0.188664	0.186586	0.182394	0.181082
0.171	0.17736	0.173601	0.183485	0.186736	0.182915	0.179158	0.17739
0.169	0.17369	0.172309	0.179815	0.183757	0.179245	0.177867	0.173698
0.165	0.17002	0.172961	0.176144	0.179727	0.175574	0.178518	0.170006
0.161	0.16635	0.175556	0.172474	0.174645	0.171904	0.181113	0.166314
0.151	0.16268	0.180094	0.168803	0.168512	0.168233	0.185652	0.162622
0.121	0.12086	0.146241	0.12699	0.148829	0.12642	0.151798	0.120845
0.121	0.11716	0.136208	0.123291	0.146902	0.122721	0.141765	0.117153
0.121	0.11346	0.128118	0.119592	0.143923	0.119022	0.133675	0.113461
0.119	0.10977	0.121971	0.115893	0.139892	0.115322	0.127528	0.109769
0.119	0.10607	0.117768	0.112193	0.134811	0.111623	0.123325	0.106077
0.114	0.10237	0.115508	0.108494	0.128678	0.107924	0.121066	0.102385
0.101	0.0607	0.101291	0.066825	0.082438	0.066255	0.106848	0.060607
0.102	0.05697	0.084459	0.063097	0.080511	0.062527	0.090017	0.056915
0.101	0.05324	0.069572	0.059369	0.077532	0.058798	0.075129	0.053223
0.101	0.04951	0.056627	0.055641	0.073501	0.05507	0.062184	0.049531
0.101	0.04579	0.045626	0.051913	0.06842	0.051342	0.051183	0.045839
0.095	0.04206	0.036568	0.048184	0.062287	0.047614	0.042125	0.042147
0.073	0.00053	0.041986	0.006659	-0.01051	0.006089	0.047544	0.00037
0.072	-0.00322	0.018357	0.002902	-0.01244	0.002332	0.023914	-0.00332
0.071	-0.00698	-0.00333	-0.00085	-0.01542	-0.00142	0.002228	-0.00701
0.071	-0.01074	-0.02307	-0.00461	-0.01945	-0.00518	-0.01751	-0.01071
0.07	-0.0145	-0.04087	-0.00837	-0.02453	-0.00894	-0.03531	-0.0144
0.054	-0.01825	-0.05673	-0.01213	-0.03066	-0.0127	-0.05117	-0.01809
0.307	0.26535	0.217239	0.271482	0.226103	0.26008	0.211963	0.265481
0.305	0.26171	0.220801	0.267841	0.224175	0.256438	0.215526	0.261789
0.303	0.25807	0.226308	0.264199	0.221196	0.252796	0.221033	0.258097
0.301	0.25443	0.233757	0.260557	0.217166	0.249155	0.228482	0.254405
0.3	0.25079	0.24315	0.256916	0.212084	0.245513	0.237875	0.250713
0.269	0.24715	0.254487	0.253274	0.205951	0.241871	0.249212	0.247021
0.241	0.23527	0.210912	0.241399	0.222783	0.229997	0.205637	0.235362
0.242	0.23162	0.211076	0.237743	0.220856	0.226341	0.205801	0.23167
0.242	0.22796	0.213183	0.234087	0.217877	0.222685	0.207908	0.227978
0.241	0.2243	0.217234	0.230431	0.213846	0.219029	0.211959	0.224286
0.241	0.22065	0.223228	0.226775	0.208765	0.215373	0.217953	0.220594
0.226	0.21699	0.231165	0.223119	0.202632	0.211717	0.22589	0.216902
0.195	0.20519	0.200997	0.211317	0.212824	0.199914	0.195722	0.205243
0.191	0.20152	0.197762	0.207646	0.210897	0.196244	0.192487	0.201551
0.187	0.19785	0.19647	0.203976	0.207918	0.192573	0.191195	0.197859
0.185	0.19418	0.197122	0.200305	0.203888	0.188903	0.191847	0.194167
0.182	0.19051	0.199717	0.196635	0.198806	0.185232	0.194442	0.190475
0.169	0.18684	0.204255	0.192964	0.192673	0.181562	0.19898	0.186783
0.148	0.14502	0.170402	0.151151	0.17299	0.139749	0.165127	0.145006
0.147	0.14132	0.160368	0.147452	0.171062	0.13605	0.155093	0.141314

0.143	0.13763	0.152278	0.143753	0.168083	0.13235	0.147003	0.137622
0.141	0.13393	0.146132	0.140053	0.164053	0.128651	0.140857	0.13393
0.138	0.13023	0.141929	0.136354	0.158971	0.124952	0.136654	0.130238
0.135	0.12653	0.139669	0.132655	0.152838	0.121252	0.134394	0.126545
0.115	0.08486	0.125452	0.090986	0.106599	0.079583	0.120177	0.084768
0.114	0.08113	0.10862	0.087258	0.104671	0.075855	0.103345	0.081076
0.114	0.0774	0.093732	0.08353	0.101693	0.072127	0.088457	0.077384
0.114	0.07367	0.080788	0.079801	0.097662	0.068399	0.075513	0.073692
0.112	0.06995	0.069787	0.076073	0.092581	0.064671	0.064512	0.07
0.105	0.06622	0.060729	0.072345	0.086447	0.060943	0.055454	0.066308
0.084	0.02469	0.066147	0.03082	0.013652	0.019418	0.060872	0.024531
0.083	0.02094	0.042518	0.027063	0.011724	0.015661	0.037243	0.020839
0.083	0.01718	0.020832	0.023306	0.008745	0.011904	0.015557	0.017147
0.082	0.01342	0.001089	0.01955	0.004715	0.008147	-0.00419	0.013455
0.081	0.00967	-0.01671	0.015793	-0.00037	0.00439	-0.02198	0.009763
0.069	0.00591	-0.03257	0.012036	-0.0065	0.000633	-0.03784	0.00607
0.42	0.31368	0.26556	0.319804	0.274424	0.313394	0.265278	0.313803
0.41	0.31003	0.269123	0.316162	0.272497	0.309753	0.268841	0.31011
0.41	0.30639	0.274629	0.312521	0.269518	0.306111	0.274347	0.306418
0.398	0.30275	0.282079	0.308879	0.265488	0.302469	0.281797	0.302726
0.394	0.29911	0.291472	0.305237	0.260406	0.298828	0.29119	0.299034
0.365	0.29547	0.302809	0.301596	0.254273	0.295186	0.302526	0.295342
0.305	0.28359	0.259234	0.289721	0.271105	0.283312	0.258952	0.283684
0.301	0.27994	0.259398	0.286065	0.269177	0.279656	0.259116	0.279992
0.294	0.27628	0.261505	0.282409	0.266198	0.276	0.261223	0.2763
0.292	0.27263	0.265556	0.278753	0.262168	0.272343	0.265273	0.272608
0.289	0.26897	0.27155	0.275097	0.257086	0.268687	0.271268	0.268916
0.279	0.26531	0.279487	0.271441	0.250953	0.265031	0.279205	0.265223
0.245	0.25351	0.249319	0.259638	0.261146	0.253229	0.249037	0.253565
0.243	0.24984	0.246084	0.255968	0.259219	0.249558	0.245802	0.249873
0.241	0.24617	0.244792	0.252297	0.25624	0.245888	0.24451	0.246181
0.238	0.2425	0.245444	0.248627	0.252209	0.242218	0.245161	0.242489
0.235	0.23883	0.248039	0.244957	0.247128	0.238547	0.247756	0.238797
0.229	0.23516	0.252577	0.241286	0.240995	0.234877	0.252295	0.235105
0.15	0.19335	0.218723	0.199473	0.221312	0.193063	0.218441	0.193328
0.149	0.18965	0.20869	0.195774	0.219384	0.189364	0.208408	0.189635
0.148	0.18595	0.2006	0.192074	0.216405	0.185665	0.200318	0.185943
0.146	0.18225	0.194454	0.188375	0.212375	0.181966	0.194172	0.182251
0.141	0.17855	0.190251	0.184676	0.207293	0.178266	0.189969	0.178559
0.139	0.17485	0.187991	0.180977	0.20116	0.174567	0.187709	0.174867
0.106	0.13318	0.173773	0.139307	0.154921	0.132898	0.173491	0.13309
0.105	0.12945	0.156942	0.135579	0.152993	0.12917	0.15666	0.129398
0.105	0.12572	0.142054	0.131851	0.150014	0.125442	0.141772	0.125706
0.104	0.122	0.12911	0.128123	0.145984	0.121714	0.128827	0.122014
0.104	0.11827	0.118108	0.124395	0.140902	0.117986	0.117826	0.118322
0.095	0.11454	0.109051	0.120667	0.134769	0.114258	0.108768	0.11463
0.071	0.07301	0.114469	0.079142	0.061973	0.072732	0.114187	0.072853
0.069	0.06926	0.09084	0.075385	0.060046	0.068976	0.090558	0.06916

0.069	0.0655	0.069154	0.071628	0.057067	0.065219	0.068871	0.065468
0.069	0.06174	0.049411	0.067871	0.053037	0.061462	0.049129	0.061776
0.068	0.05799	0.031612	0.064114	0.047955	0.057705	0.03133	0.058084
0.057	0.05423	0.015756	0.060358	0.041822	0.053948	0.015474	0.054392
0.211	0.2241	0.175987	0.218769	0.184851	0.229661	0.181544	0.224229
0.211	0.22046	0.17955	0.215127	0.182924	0.226019	0.185107	0.220537
0.21	0.21682	0.185056	0.211486	0.179945	0.222377	0.190613	0.216845
0.21	0.21318	0.192506	0.207844	0.175915	0.218736	0.198063	0.213153
0.205	0.20954	0.201899	0.204202	0.170833	0.215094	0.207456	0.209461
0.201	0.2059	0.213235	0.200561	0.1647	0.211452	0.218793	0.205769
0.162	0.19402	0.169661	0.188686	0.181532	0.199578	0.175218	0.194111
0.159	0.19036	0.169825	0.18503	0.179604	0.195922	0.175382	0.190419
0.158	0.18671	0.171932	0.181374	0.176625	0.192266	0.177489	0.186727
0.157	0.18305	0.175982	0.177718	0.172595	0.18861	0.18154	0.183034
0.156	0.1794	0.181977	0.174062	0.167513	0.184954	0.187534	0.179342
0.149	0.17574	0.189914	0.170406	0.16138	0.181298	0.195471	0.17565
0.121	0.16394	0.159746	0.158604	0.171573	0.169495	0.165303	0.163992
0.122	0.16027	0.156511	0.154933	0.169646	0.165825	0.162068	0.1603
0.123	0.1566	0.155219	0.151263	0.166667	0.162154	0.160776	0.156608
0.121	0.15293	0.15587	0.147592	0.162636	0.158484	0.161428	0.152916
0.118	0.14926	0.158465	0.143922	0.157555	0.154813	0.164023	0.149224
0.106	0.14559	0.163004	0.140251	0.151422	0.151143	0.168561	0.145532
0.093	0.10377	0.12915	0.098438	0.131739	0.10933	0.134707	0.103754
0.091	0.10007	0.119117	0.094739	0.129811	0.10563	0.124674	0.100062
0.091	0.09637	0.111027	0.09104	0.126832	0.101931	0.116584	0.09637
0.092	0.09267	0.104881	0.08734	0.122802	0.098232	0.110438	0.092678
0.091	0.08898	0.100678	0.083641	0.11772	0.094533	0.106235	0.088986
0.084	0.08528	0.098418	0.079942	0.111587	0.090833	0.103975	0.085294
0.056	0.04361	0.0842	0.038273	0.065348	0.049164	0.089757	0.043517
0.057	0.03988	0.067369	0.034544	0.06342	0.045436	0.072926	0.039825
0.055	0.03615	0.052481	0.030816	0.060441	0.041708	0.058038	0.036133
0.055	0.03242	0.039536	0.027088	0.056411	0.03798	0.045094	0.032441
0.054	0.02869	0.028535	0.02336	0.051329	0.034252	0.034092	0.028749
0.042	0.02497	0.019477	0.019632	0.045196	0.030524	0.025035	0.025057
0.021	-0.01656	0.024896	-0.02189	-0.0276	-0.011	0.030453	-0.01672
0.019	-0.02032	0.001267	-0.02565	-0.02953	-0.01476	0.006824	-0.02041
0.017	-0.02407	-0.02042	-0.02941	-0.03251	-0.01852	-0.01486	-0.0241
0.018	-0.02783	-0.04016	-0.03316	-0.03654	-0.02227	-0.0346	-0.0278
0.017	-0.03159	-0.05796	-0.03692	-0.04162	-0.02603	-0.0524	-0.03149
0.008	-0.03534	-0.07382	-0.04068	-0.04775	-0.02979	-0.06826	-0.03518
0.31	0.24826	0.200148	0.24293	0.209012	0.242989	0.194873	0.24839
0.307	0.24462	0.203711	0.239288	0.207085	0.239348	0.198436	0.244698
0.303	0.24098	0.209217	0.235647	0.204106	0.235706	0.203942	0.241006
0.301	0.23734	0.216667	0.232005	0.200075	0.232064	0.211392	0.237314
0.3	0.2337	0.22606	0.228363	0.194994	0.228423	0.220785	0.233622
0.269	0.23006	0.237396	0.224722	0.188861	0.224781	0.232121	0.22993
0.201	0.21818	0.193822	0.212847	0.205693	0.212906	0.188547	0.218272
0.199	0.21453	0.193985	0.209191	0.203765	0.20925	0.18871	0.214579

0.202	0.21087	0.196093	0.205535	0.200786	0.205594	0.190818	0.210887
0.198	0.20721	0.200143	0.201879	0.196756	0.201938	0.194868	0.207195
0.198	0.20356	0.206137	0.198223	0.191674	0.198282	0.200862	0.203503
0.186	0.1999	0.214075	0.194567	0.185541	0.194626	0.2088	0.199811
0.156	0.1881	0.183907	0.182764	0.195734	0.182824	0.178632	0.188153
0.152	0.18443	0.180672	0.179094	0.193806	0.179153	0.175396	0.184461
0.155	0.18076	0.17938	0.175423	0.190827	0.175483	0.174105	0.180769
0.154	0.17709	0.180031	0.171753	0.186797	0.171812	0.174756	0.177077
0.153	0.17342	0.182626	0.168083	0.181716	0.168142	0.177351	0.173385
0.147	0.16975	0.187165	0.164412	0.175582	0.164471	0.18189	0.169692
0.117	0.12793	0.153311	0.122599	0.155899	0.122658	0.148036	0.127915
0.116	0.12423	0.143278	0.1189	0.153972	0.118959	0.138003	0.124223
0.115	0.12053	0.135188	0.1152	0.150993	0.11526	0.129913	0.120531
0.115	0.11684	0.129041	0.111501	0.146963	0.11156	0.123766	0.116839
0.114	0.11314	0.124838	0.107802	0.141881	0.107861	0.119563	0.113147
0.101	0.10944	0.122579	0.104103	0.135748	0.104162	0.117304	0.109455
0.081	0.06777	0.108361	0.062433	0.089508	0.062493	0.103086	0.067678
0.082	0.06404	0.09153	0.058705	0.087581	0.058765	0.086255	0.063986
0.081	0.06031	0.076642	0.054977	0.084602	0.055037	0.071367	0.060294
0.079	0.05658	0.063697	0.051249	0.080572	0.051309	0.058422	0.056602
0.079	0.05286	0.052696	0.047521	0.07549	0.04758	0.047421	0.05291
0.069	0.04913	0.043638	0.043793	0.069357	0.043852	0.038363	0.049217
0.032	0.0076	0.049057	0.002268	-0.00344	0.002327	0.043782	0.00744
0.031	0.00385	0.025427	-0.00149	-0.00537	-0.00143	0.020152	0.003748
0.032	8.9E-05	0.003741	-0.00525	-0.00835	-0.00519	-0.00153	5.61E-05
0.029	-0.00367	-0.016	-0.009	-0.01238	-0.00894	-0.02128	-0.00364
0.026	-0.00743	-0.0338	-0.01276	-0.01746	-0.0127	-0.03908	-0.00733
0.013	-0.01118	-0.04966	-0.01652	-0.02359	-0.01646	-0.05493	-0.01102
0.425	0.29659	0.24847	0.291252	0.257334	0.296304	0.248188	0.296712
0.418	0.29294	0.252033	0.28761	0.255406	0.292662	0.25175	0.29302
0.412	0.2893	0.257539	0.283968	0.252427	0.289021	0.257257	0.289328
0.405	0.28566	0.264989	0.280327	0.248397	0.285379	0.264706	0.285636
0.399	0.28202	0.274382	0.276685	0.243315	0.281737	0.274099	0.281944
0.376	0.27838	0.285718	0.273043	0.237182	0.278096	0.285436	0.278252
0.247	0.2665	0.242143	0.261169	0.254014	0.266221	0.241861	0.266593
0.246	0.26285	0.242307	0.257513	0.252087	0.262565	0.242025	0.262901
0.244	0.25919	0.244414	0.253857	0.249108	0.258909	0.244132	0.259209
0.242	0.25554	0.248465	0.250201	0.245078	0.255253	0.248183	0.255517
0.241	0.25188	0.254459	0.246545	0.239996	0.251597	0.254177	0.251825
0.229	0.24822	0.262396	0.242889	0.233863	0.247941	0.262114	0.248133
0.162	0.23642	0.232228	0.231086	0.244056	0.236138	0.231946	0.236474
0.161	0.23275	0.228993	0.227416	0.242128	0.232468	0.228711	0.232782
0.159	0.22908	0.227701	0.223745	0.239149	0.228797	0.227419	0.22909
0.158	0.22541	0.228353	0.220075	0.235119	0.225127	0.228071	0.225398
0.156	0.22174	0.230948	0.216404	0.230037	0.221457	0.230666	0.221706
0.148	0.21807	0.235486	0.212734	0.223904	0.217786	0.235204	0.218014
0.115	0.17625	0.201633	0.170921	0.204221	0.175973	0.201351	0.176237
0.114	0.17256	0.1916	0.167221	0.202294	0.172274	0.191317	0.172545

0.112	0.16886	0.18351	0.163522	0.199315	0.168574	0.183228	0.168853
0.111	0.16516	0.177363	0.159823	0.195284	0.164875	0.177081	0.165161
0.111	0.16146	0.17316	0.156124	0.190203	0.161176	0.172878	0.161469
0.098	0.15776	0.1709	0.152424	0.18407	0.157477	0.170618	0.157777
0.079	0.11609	0.156683	0.110755	0.13783	0.115807	0.156401	0.115999
0.078	0.11236	0.139851	0.107027	0.135903	0.112079	0.139569	0.112307
0.077	0.10863	0.124964	0.103299	0.132924	0.108351	0.124681	0.108615
0.075	0.10491	0.112019	0.099571	0.128893	0.104623	0.111737	0.104923
0.072	0.10118	0.101018	0.095843	0.123812	0.100895	0.100736	0.101231
0.059	0.09745	0.09196	0.092115	0.117679	0.097167	0.091678	0.097539
0.031	0.05592	0.097378	0.05059	0.044883	0.055642	0.097096	0.055762
0.032	0.05217	0.073749	0.046833	0.042955	0.051885	0.073467	0.05207
0.032	0.04841	0.052063	0.043076	0.039976	0.048128	0.051781	0.048378
0.032	0.04465	0.03232	0.039319	0.035946	0.044371	0.032038	0.044686
0.031	0.0409	0.014521	0.035562	0.030864	0.040614	0.014239	0.040994
0.017	0.03714	-0.00133	0.031805	0.024731	0.036858	-0.00162	0.037302
0.214	0.28291	0.234793	0.27999	0.243657	0.288466	0.24035	0.283035
0.215	0.27927	0.238355	0.276348	0.241729	0.284824	0.243913	0.279343
0.214	0.27563	0.243862	0.272707	0.23875	0.281183	0.249419	0.275651
0.213	0.27198	0.251311	0.269065	0.23472	0.277541	0.256869	0.271959
0.211	0.26834	0.260704	0.265423	0.229638	0.273899	0.266262	0.268267
0.211	0.2647	0.272041	0.261782	0.223505	0.270258	0.277598	0.264575
0.187	0.25283	0.228466	0.249907	0.240337	0.258383	0.234023	0.252916
0.185	0.24917	0.22863	0.246251	0.23841	0.254727	0.234187	0.249224
0.183	0.24551	0.230737	0.242595	0.235431	0.251071	0.236294	0.245532
0.186	0.24186	0.234788	0.238939	0.2314	0.247415	0.240345	0.24184
0.186	0.2382	0.240782	0.235283	0.226319	0.243759	0.246339	0.238148
0.162	0.23455	0.248719	0.231627	0.220186	0.240103	0.254276	0.234456
0.165	0.22274	0.218551	0.219824	0.230378	0.2283	0.224108	0.222797
0.165	0.21907	0.215316	0.216154	0.228451	0.22463	0.220873	0.219105
0.163	0.2154	0.214024	0.212483	0.225472	0.22096	0.219581	0.215413
0.165	0.21173	0.214676	0.208813	0.221442	0.217289	0.220233	0.211721
0.159	0.20806	0.217271	0.205143	0.21636	0.213619	0.222828	0.208029
0.143	0.20439	0.221809	0.201472	0.210227	0.209948	0.227366	0.204337
0.143	0.16258	0.187956	0.159659	0.190544	0.168135	0.193513	0.16256
0.142	0.15888	0.177922	0.15596	0.188616	0.164436	0.18348	0.158868
0.141	0.15518	0.169832	0.15226	0.185637	0.160736	0.17539	0.155176
0.143	0.15148	0.163686	0.148561	0.181607	0.157037	0.169243	0.151484
0.142	0.14778	0.159483	0.144862	0.176525	0.153338	0.16504	0.147792
0.118	0.14408	0.157223	0.141163	0.170392	0.149639	0.16278	0.144099
0.119	0.10241	0.143006	0.099493	0.124153	0.107969	0.148563	0.102322
0.121	0.09868	0.126174	0.095765	0.122225	0.104241	0.131731	0.09863
0.123	0.09496	0.111286	0.092037	0.119247	0.100513	0.116844	0.094938
0.123	0.09123	0.098342	0.088309	0.115216	0.096785	0.103899	0.091246
0.121	0.0875	0.087341	0.084581	0.110135	0.093057	0.092898	0.087554
0.109	0.08377	0.078283	0.080853	0.104001	0.089329	0.08384	0.083862
0.094	0.04225	0.083701	0.039328	0.031206	0.047804	0.089258	0.042085
0.091	0.03849	0.060072	0.035571	0.029278	0.044047	0.065629	0.038393

0.085	0.03473	0.038386	0.031814	0.026299	0.04029	0.043943	0.034701
0.084	0.03098	0.018643	0.028057	0.022269	0.036533	0.0242	0.031009
0.083	0.02722	0.000844	0.0243	0.017187	0.032777	0.006401	0.027317
0.068	0.02346	-0.01501	0.020544	0.011054	0.02902	-0.00945	0.023624
0.307	0.30707	0.258953	0.304151	0.267818	0.301795	0.253678	0.307196
0.307	0.30343	0.262516	0.300509	0.26589	0.298153	0.257241	0.303504
0.306	0.29979	0.268023	0.296867	0.262911	0.294511	0.262747	0.299812
0.311	0.29614	0.275472	0.293226	0.258881	0.29087	0.270197	0.29612
0.305	0.2925	0.284865	0.289584	0.253799	0.287228	0.27959	0.292427
0.283	0.28886	0.296202	0.285942	0.247666	0.283586	0.290927	0.288735
0.263	0.27699	0.252627	0.274068	0.264498	0.271712	0.247352	0.277077
0.259	0.27333	0.252791	0.270412	0.26257	0.268056	0.247516	0.273385
0.264	0.26967	0.254898	0.266756	0.259592	0.2644	0.249623	0.269693
0.263	0.26602	0.258949	0.2631	0.255561	0.260744	0.253674	0.266001
0.258	0.26236	0.264943	0.259444	0.25048	0.257088	0.259668	0.262309
0.244	0.25871	0.27288	0.255788	0.244347	0.253432	0.267605	0.258617
0.219	0.2469	0.242712	0.243985	0.254539	0.241629	0.237437	0.246958
0.218	0.24323	0.239477	0.240315	0.252612	0.237959	0.234202	0.243266
0.221	0.23956	0.238185	0.236644	0.249633	0.234288	0.23291	0.239574
0.215	0.23589	0.238837	0.232974	0.245603	0.230618	0.233562	0.235882
0.207	0.23222	0.241432	0.229303	0.240521	0.226947	0.236157	0.23219
0.199	0.22855	0.24597	0.225633	0.234388	0.223277	0.240695	0.228498
0.152	0.18674	0.212116	0.18382	0.214705	0.181464	0.206841	0.186721
0.156	0.18304	0.202083	0.18012	0.212777	0.177764	0.196808	0.183029
0.148	0.17934	0.193993	0.176421	0.209798	0.174065	0.188718	0.179337
0.146	0.17564	0.187847	0.172722	0.205768	0.170366	0.182572	0.175644
0.144	0.17194	0.183644	0.169023	0.200686	0.166667	0.178369	0.171952
0.139	0.16824	0.181384	0.165323	0.194553	0.162967	0.176109	0.16826
0.119	0.12657	0.167167	0.123654	0.148314	0.121298	0.161891	0.126483
0.118	0.12285	0.150335	0.119926	0.146386	0.11757	0.14506	0.122791
0.119	0.11912	0.135447	0.116198	0.143407	0.113842	0.130172	0.119099
0.117	0.11539	0.122503	0.11247	0.139377	0.110114	0.117228	0.115407
0.114	0.11166	0.111502	0.108742	0.134295	0.106386	0.106226	0.111715
0.108	0.10793	0.102444	0.105014	0.128162	0.102658	0.097169	0.108023
0.091	0.06641	0.107862	0.063489	0.055366	0.061133	0.102587	0.066246
0.092	0.06265	0.084233	0.059732	0.053439	0.057376	0.078958	0.062554
0.093	0.05889	0.062547	0.055975	0.05046	0.053619	0.057272	0.058862
0.092	0.05514	0.042804	0.052218	0.04643	0.049862	0.037529	0.055169
0.091	0.05138	0.025005	0.048461	0.041348	0.046105	0.01973	0.051477
0.069	0.04762	0.009149	0.044704	0.035215	0.042348	0.003874	0.047785
0.401	0.35539	0.307275	0.352472	0.316139	0.355109	0.306993	0.355517
0.398	0.35175	0.310838	0.348831	0.314212	0.351468	0.310556	0.351825
0.397	0.34811	0.316344	0.345189	0.311233	0.347826	0.316062	0.348133
0.399	0.34447	0.323794	0.341547	0.307203	0.344184	0.323512	0.344441
0.393	0.34082	0.333187	0.337906	0.302121	0.340543	0.332905	0.340749
0.371	0.33718	0.344523	0.334264	0.295988	0.336901	0.344241	0.337057
0.341	0.32531	0.300949	0.32239	0.31282	0.325027	0.300667	0.325399
0.333	0.32165	0.301113	0.318734	0.310892	0.32137	0.30083	0.321707

0.331	0.318	0.30322	0.315078	0.307913	0.317714	0.302938	0.318015
0.33	0.31434	0.30727	0.311421	0.303883	0.314058	0.306988	0.314322
0.332	0.31068	0.313264	0.307765	0.298801	0.310402	0.312982	0.31063
0.302	0.30703	0.321202	0.304109	0.292668	0.306746	0.32092	0.306938
0.281	0.29523	0.291034	0.292307	0.302861	0.294944	0.290752	0.29528
0.278	0.29156	0.287799	0.288636	0.300934	0.291273	0.287516	0.291588
0.271	0.28788	0.286507	0.284966	0.297955	0.287603	0.286225	0.287896
0.279	0.28421	0.287158	0.281296	0.293924	0.283932	0.286876	0.284204
0.273	0.28054	0.289753	0.277625	0.288843	0.280262	0.289471	0.280512
0.255	0.27687	0.294292	0.273955	0.28271	0.276591	0.29401	0.27682
0.151	0.23506	0.260438	0.232141	0.263026	0.234778	0.260156	0.235042
0.162	0.23136	0.250405	0.228442	0.261099	0.231079	0.250123	0.23135
0.159	0.22766	0.242315	0.224743	0.25812	0.22738	0.242033	0.227658
0.157	0.22396	0.236169	0.221044	0.25409	0.22368	0.235886	0.223966
0.166	0.22026	0.231965	0.217344	0.249008	0.219981	0.231683	0.220274
0.148	0.21656	0.229706	0.213645	0.242875	0.216282	0.229424	0.216582
0.116	0.17489	0.215488	0.171976	0.196636	0.174613	0.215206	0.174805
0.121	0.17117	0.198657	0.168248	0.194708	0.170885	0.198375	0.171113
0.126	0.16744	0.183769	0.16452	0.191729	0.167157	0.183487	0.167421
0.121	0.16371	0.170824	0.160792	0.187699	0.163429	0.170542	0.163729
0.119	0.15998	0.159823	0.157064	0.182617	0.1597	0.159541	0.160037
0.114	0.15625	0.150765	0.153336	0.176484	0.155972	0.150483	0.156345
0.075	0.11473	0.156184	0.11181	0.103688	0.114447	0.155902	0.114567
0.091	0.11097	0.132554	0.108054	0.101761	0.11069	0.132272	0.110875
0.089	0.10722	0.110868	0.104297	0.098782	0.106934	0.110586	0.107183
0.083	0.10346	0.091126	0.10054	0.094751	0.103177	0.090844	0.103491
0.081	0.0997	0.073327	0.096783	0.08967	0.09942	0.073044	0.099799
0.069	0.09595	0.057471	0.093026	0.083537	0.095663	0.057189	0.096107
0.22	0.25727	0.209157	0.263929	0.218021	0.26283	0.214714	0.257399
0.217	0.25363	0.21272	0.260288	0.216093	0.259189	0.218277	0.253707
0.215	0.24999	0.218226	0.256646	0.213114	0.255547	0.223783	0.250015
0.215	0.24635	0.225676	0.253004	0.209084	0.251905	0.231233	0.246323
0.214	0.24271	0.235069	0.249363	0.204002	0.248264	0.240626	0.242631
0.208	0.23906	0.246405	0.245721	0.197869	0.244622	0.251962	0.238939
0.195	0.22719	0.20283	0.233846	0.214701	0.232747	0.208388	0.22728
0.194	0.22353	0.202994	0.23019	0.212774	0.229091	0.208551	0.223588
0.193	0.21988	0.205101	0.226534	0.209795	0.225435	0.210659	0.219896
0.188	0.21622	0.209152	0.222878	0.205765	0.221779	0.214709	0.216204
0.179	0.21257	0.215146	0.219222	0.200683	0.218123	0.220703	0.212512
0.176	0.20891	0.223084	0.215566	0.19455	0.214467	0.228641	0.20882
0.179	0.19711	0.192915	0.203764	0.204743	0.202665	0.198473	0.197162
0.181	0.19344	0.18968	0.200093	0.202815	0.198994	0.195237	0.193469
0.175	0.18977	0.188388	0.196423	0.199836	0.195324	0.193946	0.189777
0.168	0.1861	0.18904	0.192752	0.195806	0.191653	0.194597	0.186085
0.168	0.18243	0.191635	0.189082	0.190724	0.187983	0.197192	0.182393
0.15	0.17876	0.196173	0.185411	0.184591	0.184312	0.201731	0.178701
0.119	0.13694	0.16232	0.143598	0.164908	0.142499	0.167877	0.136924
0.12	0.13324	0.152287	0.139899	0.162981	0.1388	0.157844	0.133232

0.119	0.12954	0.144197	0.1362	0.160002	0.135101	0.149754	0.12954
0.119	0.12584	0.13805	0.1325	0.155971	0.131401	0.143607	0.125848
0.118	0.12214	0.133847	0.128801	0.15089	0.127702	0.139404	0.122156
0.102	0.11845	0.131587	0.125102	0.144757	0.124003	0.137145	0.118464
0.099	0.07678	0.11737	0.083433	0.098517	0.082334	0.122927	0.076686
0.105	0.07305	0.100538	0.079705	0.09659	0.078606	0.106096	0.072994
0.102	0.06932	0.085651	0.075977	0.093611	0.074878	0.091208	0.069302
0.103	0.06559	0.072706	0.072249	0.08958	0.071149	0.078263	0.06561
0.104	0.06186	0.061705	0.06852	0.084499	0.067421	0.067262	0.061918
0.081	0.05814	0.052647	0.064792	0.078366	0.063693	0.058204	0.058226
0.072	0.01661	0.058065	0.023267	0.00557	0.022168	0.063623	0.016449
0.068	0.01285	0.034436	0.01951	0.003642	0.018411	0.039993	0.012757
0.066	0.0091	0.01275	0.015753	0.000663	0.014654	0.018307	0.009065
0.064	0.00534	-0.00699	0.011997	-0.00337	0.010898	-0.00144	0.005373
0.061	0.00158	-0.02479	0.00824	-0.00845	0.007141	-0.01923	0.001681
0.055	-0.00217	-0.04065	0.004483	-0.01458	0.003384	-0.03509	-0.00201
0.31	0.28143	0.233318	0.28809	0.242182	0.276159	0.228043	0.28156
0.312	0.27779	0.23688	0.284448	0.240254	0.272517	0.231605	0.277868
0.311	0.27415	0.242387	0.280807	0.237275	0.268876	0.237112	0.274176
0.311	0.27051	0.249836	0.277165	0.233245	0.265234	0.244561	0.270484
0.308	0.26687	0.259229	0.273523	0.228163	0.261592	0.253954	0.266792
0.275	0.26323	0.270566	0.269882	0.22203	0.257951	0.265291	0.2631
0.248	0.25135	0.226991	0.258007	0.238862	0.246076	0.221716	0.251441
0.247	0.2477	0.227155	0.254351	0.236935	0.24242	0.22188	0.247749
0.246	0.24404	0.229262	0.250695	0.233956	0.238764	0.223987	0.244057
0.245	0.24038	0.233313	0.247039	0.229925	0.235108	0.228038	0.240365
0.238	0.23673	0.239307	0.243383	0.224844	0.231452	0.234032	0.236673
0.231	0.23307	0.247244	0.239727	0.218711	0.227796	0.241969	0.232981
0.206	0.22127	0.217076	0.227925	0.228904	0.215993	0.211801	0.221322
0.205	0.2176	0.213841	0.224254	0.226976	0.212323	0.208566	0.21763
0.204	0.21393	0.212549	0.220584	0.223997	0.208652	0.207274	0.213938
0.204	0.21026	0.213201	0.216913	0.219967	0.204982	0.207926	0.210246
0.201	0.20659	0.215796	0.213243	0.214885	0.201311	0.210521	0.206554
0.188	0.20292	0.220334	0.209572	0.208752	0.197641	0.215059	0.202862
0.155	0.1611	0.186481	0.167759	0.189069	0.155828	0.181206	0.161085
0.148	0.1574	0.176447	0.16406	0.187141	0.152129	0.171172	0.157393
0.156	0.1537	0.168358	0.160361	0.184163	0.148429	0.163082	0.153701
0.157	0.15001	0.162211	0.156661	0.180132	0.14473	0.156936	0.150009
0.148	0.14631	0.158008	0.152962	0.175051	0.141031	0.152733	0.146317
0.143	0.14261	0.155748	0.149263	0.168917	0.137331	0.150473	0.142625
0.116	0.10094	0.141531	0.107594	0.122678	0.095662	0.136256	0.100847
0.116	0.09721	0.124699	0.103865	0.12075	0.091934	0.119424	0.097155
0.116	0.09348	0.109811	0.100137	0.117772	0.088206	0.104536	0.093463
0.112	0.08975	0.096867	0.096409	0.113741	0.084478	0.091592	0.089771
0.111	0.08603	0.085866	0.092681	0.10866	0.08075	0.080591	0.086079
0.098	0.0823	0.076808	0.088953	0.102527	0.077022	0.071533	0.082387
0.078	0.04077	0.082226	0.047428	0.029731	0.035497	0.076951	0.04061
0.088	0.03701	0.058597	0.043671	0.027803	0.03174	0.053322	0.036918

0.086	0.03326	0.036911	0.039914	0.024824	0.027983	0.031636	0.033226
0.084	0.0295	0.017168	0.036157	0.020794	0.024226	0.011893	0.029534
0.083	0.02574	-0.00063	0.032401	0.015712	0.020469	-0.00591	0.025842
0.055	0.02199	-0.01649	0.028644	0.009579	0.016712	-0.02176	0.02215
0.421	0.32976	0.281639	0.336412	0.290503	0.329473	0.281357	0.329882
0.418	0.32611	0.285202	0.33277	0.288576	0.325832	0.28492	0.32619
0.417	0.32247	0.290708	0.329128	0.285597	0.32219	0.290426	0.322497
0.404	0.31883	0.298158	0.325487	0.281567	0.318548	0.297876	0.318805
0.401	0.31519	0.307551	0.321845	0.276485	0.314907	0.307269	0.315113
0.387	0.31155	0.318888	0.318203	0.270352	0.311265	0.318605	0.311421
0.311	0.29967	0.275313	0.306329	0.287184	0.299391	0.275031	0.299763
0.308	0.29602	0.275477	0.302673	0.285256	0.295735	0.275195	0.296071
0.312	0.29236	0.277584	0.299017	0.282277	0.292079	0.277302	0.292379
0.305	0.2887	0.281635	0.295361	0.278247	0.288423	0.281353	0.288687
0.296	0.28505	0.287629	0.291705	0.273165	0.284766	0.287347	0.284995
0.284	0.28139	0.295566	0.288049	0.267032	0.28111	0.295284	0.281303
0.256	0.26959	0.265398	0.276246	0.277225	0.269308	0.265116	0.269644
0.255	0.26592	0.262163	0.272576	0.275298	0.265637	0.261881	0.265952
0.254	0.26225	0.260871	0.268905	0.272319	0.261967	0.260589	0.26226
0.255	0.25858	0.261523	0.265235	0.268288	0.258297	0.26124	0.258568
0.251	0.25491	0.264118	0.261564	0.263207	0.254626	0.263835	0.254876
0.237	0.25124	0.268656	0.257894	0.257074	0.250956	0.268374	0.251184
0.153	0.20942	0.234802	0.216081	0.237391	0.209142	0.23452	0.209407
0.148	0.20573	0.224769	0.212382	0.235463	0.205443	0.224487	0.205714
0.157	0.20203	0.216679	0.208682	0.232484	0.201744	0.216397	0.202022
0.149	0.19833	0.210533	0.204983	0.228454	0.198045	0.210251	0.19833
0.151	0.19463	0.20633	0.201284	0.223372	0.194345	0.206048	0.194638
0.126	0.19093	0.20407	0.197584	0.217239	0.190646	0.203788	0.190946
0.111	0.14926	0.189852	0.155915	0.171	0.148977	0.18957	0.149169
0.112	0.14553	0.173021	0.152187	0.169072	0.145249	0.172739	0.145477
0.11	0.1418	0.158133	0.148459	0.166093	0.141521	0.157851	0.141785
0.111	0.13807	0.145189	0.144731	0.162063	0.137793	0.144906	0.138093
0.112	0.13435	0.134187	0.141003	0.156981	0.134065	0.133905	0.134401
0.101	0.13062	0.12513	0.137275	0.150848	0.130337	0.124848	0.130709
0.075	0.08909	0.130548	0.09575	0.078052	0.088811	0.130266	0.088932
0.069	0.08534	0.106919	0.091993	0.076125	0.085055	0.106637	0.085239
0.075	0.08158	0.085233	0.088236	0.073146	0.081298	0.084951	0.081547
0.074	0.07782	0.06549	0.084479	0.069116	0.077541	0.065208	0.077855
0.073	0.07407	0.047691	0.080722	0.064034	0.073784	0.047409	0.074163
0.071	0.07031	0.031835	0.076965	0.057901	0.070027	0.031553	0.070471
0.224	0.24018	0.192066	0.235377	0.20093	0.24574	0.197623	0.240308
0.226	0.23654	0.195629	0.231735	0.199003	0.242098	0.201186	0.236616
0.227	0.2329	0.201135	0.228094	0.196024	0.238456	0.206692	0.232924
0.229	0.22926	0.208585	0.224452	0.191994	0.234815	0.214142	0.229232
0.223	0.22562	0.217978	0.22081	0.186912	0.231173	0.223535	0.22554
0.218	0.22197	0.229314	0.217169	0.180779	0.227531	0.234872	0.221848
0.176	0.2101	0.18574	0.205294	0.197611	0.215657	0.191297	0.21019
0.169	0.20644	0.185904	0.201638	0.195683	0.212001	0.191461	0.206498

0.171	0.20279	0.188011	0.197982	0.192704	0.208345	0.193568	0.202806
0.166	0.19913	0.192062	0.194326	0.188674	0.204689	0.197619	0.199114
0.162	0.19548	0.198056	0.19067	0.183592	0.201033	0.203613	0.195421
0.153	0.19182	0.205993	0.187014	0.177459	0.197377	0.21155	0.191729
0.128	0.18002	0.175825	0.175211	0.187652	0.185574	0.181382	0.180071
0.131	0.17635	0.17259	0.171541	0.185725	0.181904	0.178147	0.176379
0.129	0.17268	0.171298	0.167871	0.182746	0.178233	0.176855	0.172687
0.133	0.16901	0.171949	0.1642	0.178715	0.174563	0.177507	0.168995
0.127	0.16534	0.174544	0.16053	0.173634	0.170892	0.180102	0.165303
0.117	0.16166	0.179083	0.156859	0.167501	0.167222	0.18464	0.161611
0.098	0.11985	0.145229	0.115046	0.147818	0.125409	0.150786	0.119833
0.095	0.11615	0.135196	0.111347	0.14589	0.121709	0.140753	0.116141
0.099	0.11245	0.127106	0.107647	0.142911	0.11801	0.132663	0.112449
0.091	0.10875	0.12096	0.103948	0.138881	0.114311	0.126517	0.108757
0.089	0.10505	0.116757	0.100249	0.133799	0.110612	0.122314	0.105065
0.083	0.10136	0.114497	0.09655	0.127666	0.106912	0.120054	0.101373
0.063	0.05969	0.100279	0.05488	0.081427	0.065243	0.105836	0.059596
0.062	0.05596	0.083448	0.051152	0.079499	0.061515	0.089005	0.055904
0.059	0.05223	0.06856	0.047424	0.07652	0.057787	0.074117	0.052212
0.058	0.0485	0.055615	0.043696	0.07249	0.054059	0.061173	0.04852
0.059	0.04477	0.044614	0.039968	0.067408	0.050331	0.050171	0.044828
0.046	0.04105	0.035557	0.03624	0.061275	0.046603	0.041114	0.041136
0.018	-0.00048	0.040975	-0.00529	-0.01152	0.005078	0.046532	-0.00064
0.025	-0.00424	0.017346	-0.00904	-0.01345	0.001321	0.022903	-0.00433
0.026	-0.00799	-0.00434	-0.0128	-0.01643	-0.00244	0.001217	-0.00803
0.018	-0.01175	-0.02408	-0.01656	-0.02046	-0.00619	-0.01853	-0.01172
0.015	-0.01551	-0.04188	-0.02031	-0.02554	-0.00995	-0.03633	-0.01541
0.007	-0.01926	-0.05774	-0.02407	-0.03167	-0.01371	-0.05218	-0.0191
0.309	0.26434	0.216227	0.259538	0.225091	0.259068	0.210952	0.264469
0.314	0.2607	0.21979	0.255896	0.223164	0.255427	0.214515	0.260777
0.312	0.25706	0.225296	0.252254	0.220185	0.251785	0.220021	0.257085
0.313	0.25342	0.232746	0.248613	0.216154	0.248143	0.227471	0.253393
0.311	0.24978	0.242139	0.244971	0.211073	0.244502	0.236864	0.249701
0.308	0.24614	0.253475	0.24133	0.20494	0.24086	0.2482	0.246009
0.207	0.23426	0.209901	0.229455	0.221772	0.228986	0.204626	0.234351
0.218	0.2306	0.210065	0.225799	0.219844	0.225329	0.204789	0.230659
0.216	0.22695	0.212172	0.222143	0.216865	0.221673	0.206897	0.226966
0.212	0.22329	0.216222	0.218487	0.212835	0.218017	0.210947	0.223274
0.208	0.21964	0.222216	0.214831	0.207753	0.214361	0.216941	0.219582
0.197	0.21598	0.230154	0.211175	0.20162	0.210705	0.224879	0.21589
0.154	0.20418	0.199986	0.199372	0.211813	0.198903	0.194711	0.204232
0.163	0.20051	0.196751	0.195702	0.209885	0.195232	0.191476	0.20054
0.159	0.19684	0.195459	0.192031	0.206907	0.191562	0.190184	0.196848
0.161	0.19317	0.19611	0.188361	0.202876	0.187891	0.190835	0.193156
0.157	0.1895	0.198705	0.18469	0.197795	0.184221	0.19343	0.189464
0.142	0.18583	0.203244	0.18102	0.191661	0.18055	0.197969	0.185771
0.116	0.14401	0.16939	0.139207	0.171978	0.138737	0.164115	0.143994
0.121	0.14031	0.159357	0.135508	0.170051	0.135038	0.154082	0.140302

0.123	0.13661	0.151267	0.131808	0.167072	0.131339	0.145992	0.13661
0.121	0.13291	0.14512	0.128109	0.163042	0.127639	0.139845	0.132918
0.118	0.12922	0.140917	0.12441	0.15796	0.12394	0.135642	0.129226
0.099	0.12552	0.138658	0.12071	0.151827	0.120241	0.133383	0.125534
0.082	0.08385	0.12444	0.079041	0.105587	0.078572	0.119165	0.083757
0.081	0.08012	0.107609	0.075313	0.10366	0.074844	0.102334	0.080065
0.079	0.07639	0.092721	0.071585	0.100681	0.071116	0.087446	0.076373
0.084	0.07266	0.079776	0.067857	0.096651	0.067388	0.074501	0.072681
0.083	0.06893	0.068775	0.064129	0.091569	0.063659	0.0635	0.068989
0.066	0.06521	0.059717	0.060401	0.085436	0.059931	0.054442	0.065296
0.031	0.02368	0.065136	0.018876	0.01264	0.018406	0.059861	0.023519
0.036	0.01992	0.041506	0.015119	0.010713	0.014649	0.036231	0.019827
0.035	0.01617	0.01982	0.011362	0.007734	0.010893	0.014545	0.016135
0.037	0.01241	7.78E-05	0.007605	0.003703	0.007136	-0.0052	0.012443
0.039	0.00865	-0.01772	0.003848	-0.00138	0.003379	-0.023	0.008751
0.018	0.0049	-0.03358	9.15E-05	-0.00751	-0.00038	-0.03885	0.005059
0.422	0.31267	0.264549	0.30786	0.273413	0.312383	0.264267	0.312791
0.422	0.30902	0.268112	0.304218	0.271485	0.308741	0.267829	0.309099
0.425	0.30538	0.273618	0.300576	0.268506	0.3051	0.273336	0.305407
0.419	0.30174	0.281068	0.296935	0.264476	0.301458	0.280785	0.301715
0.408	0.2981	0.290461	0.293293	0.259394	0.297816	0.290178	0.298023
0.387	0.29446	0.301797	0.289651	0.253261	0.294175	0.301515	0.294331
0.252	0.28258	0.258222	0.277777	0.270093	0.2823	0.25794	0.282672
0.247	0.27893	0.258386	0.274121	0.268166	0.278644	0.258104	0.27898
0.249	0.27527	0.260493	0.270465	0.265187	0.274988	0.260211	0.275288
0.243	0.27161	0.264544	0.266809	0.261157	0.271332	0.264262	0.271596
0.248	0.26796	0.270538	0.263153	0.256075	0.267676	0.270256	0.267904
0.225	0.2643	0.278476	0.259496	0.249942	0.26402	0.278193	0.264212
0.161	0.2525	0.248307	0.247694	0.260135	0.252217	0.248025	0.252554
0.167	0.24883	0.245072	0.244024	0.258207	0.248547	0.24479	0.248861
0.163	0.24516	0.24378	0.240353	0.255228	0.244876	0.243498	0.245169
0.162	0.24149	0.244432	0.236683	0.251198	0.241206	0.24415	0.241477
0.155	0.23782	0.247027	0.233012	0.246116	0.237536	0.246745	0.237785
0.146	0.23415	0.251565	0.229342	0.239983	0.233865	0.251283	0.234093
0.117	0.19233	0.217712	0.187529	0.2203	0.192052	0.21743	0.192316
0.115	0.18863	0.207679	0.183829	0.218373	0.188353	0.207396	0.188624
0.119	0.18494	0.199589	0.18013	0.215394	0.184653	0.199307	0.184932
0.118	0.18124	0.193442	0.176431	0.211363	0.180954	0.19316	0.18124
0.117	0.17754	0.189239	0.172731	0.206282	0.177255	0.188957	0.177548
0.106	0.17384	0.186979	0.169032	0.200149	0.173556	0.186697	0.173856
0.085	0.13217	0.172762	0.127363	0.153909	0.131886	0.17248	0.132079
0.084	0.12844	0.155931	0.123635	0.151982	0.128158	0.155648	0.128386
0.076	0.12471	0.141043	0.119907	0.149003	0.12443	0.14076	0.124694
0.081	0.12098	0.128098	0.116179	0.144972	0.120702	0.127816	0.121002
0.078	0.11726	0.117097	0.112451	0.139891	0.116974	0.116815	0.11731
0.055	0.11353	0.108039	0.108723	0.133758	0.113246	0.107757	0.113618
0.036	0.072	0.113458	0.067197	0.060962	0.071721	0.113175	0.071841
0.032	0.06825	0.089828	0.063441	0.059034	0.067964	0.089546	0.068149

0.031	0.06449	0.068142	0.059684	0.056055	0.064207	0.06786	0.064457
0.028	0.06073	0.048399	0.055927	0.052025	0.06045	0.048117	0.060765
0.029	0.05698	0.0306	0.05217	0.046943	0.056693	0.030318	0.057073
0.018	0.05322	0.014744	0.048413	0.04081	0.052937	0.014462	0.053381
0.217	0.28786	0.23974	0.2851	0.248604	0.293413	0.245297	0.287982
0.215	0.28421	0.243303	0.281458	0.246677	0.289772	0.24886	0.28429
0.218	0.28057	0.248809	0.277817	0.243698	0.28613	0.254366	0.280598
0.211	0.27693	0.256259	0.274175	0.239667	0.282488	0.261816	0.276906
0.216	0.27329	0.265652	0.270533	0.234586	0.278847	0.271209	0.273214
0.209	0.26965	0.276988	0.266892	0.228453	0.275205	0.282545	0.269522
0.192	0.25777	0.233414	0.255017	0.245285	0.263331	0.238971	0.257863
0.191	0.25412	0.233577	0.251361	0.243357	0.259675	0.239135	0.254171
0.191	0.25046	0.235685	0.247705	0.240378	0.256019	0.241242	0.250479
0.19	0.24681	0.239735	0.244049	0.236348	0.252362	0.245292	0.246787
0.188	0.24315	0.245729	0.240393	0.231266	0.248706	0.251286	0.243095
0.174	0.23949	0.253667	0.236737	0.225133	0.24505	0.259224	0.239403
0.171	0.22769	0.223499	0.224934	0.235326	0.233248	0.229056	0.227745
0.163	0.22402	0.220263	0.221264	0.233398	0.229577	0.225821	0.224053
0.162	0.22035	0.218972	0.217594	0.230419	0.225907	0.224529	0.220361
0.168	0.21668	0.219623	0.213923	0.226389	0.222236	0.22518	0.216669
0.165	0.21301	0.222218	0.210253	0.221307	0.218566	0.227775	0.212976
0.148	0.20934	0.226757	0.206582	0.215174	0.214896	0.232314	0.209284
0.148	0.16753	0.192903	0.164769	0.195491	0.173082	0.19846	0.167507
0.139	0.16383	0.18287	0.16107	0.193564	0.169383	0.188427	0.163815
0.139	0.16013	0.17478	0.15737	0.190585	0.165684	0.180337	0.160123
0.138	0.15643	0.168633	0.153671	0.186555	0.161985	0.174191	0.156431
0.143	0.15273	0.16443	0.149972	0.181473	0.158285	0.169987	0.152739
0.101	0.14903	0.162171	0.146273	0.17534	0.154586	0.167728	0.149047
0.122	0.10736	0.147953	0.104603	0.1291	0.112917	0.15351	0.10727
0.122	0.10363	0.131122	0.100875	0.127173	0.109189	0.136679	0.103578
0.119	0.0999	0.116234	0.097147	0.124194	0.105461	0.121791	0.099886
0.119	0.09618	0.103289	0.093419	0.120164	0.101733	0.108846	0.096194
0.116	0.09245	0.092288	0.089691	0.115082	0.098005	0.097845	0.092501
0.091	0.08872	0.08323	0.085963	0.108949	0.094277	0.088787	0.088809
0.091	0.04719	0.088649	0.044438	0.036153	0.052751	0.094206	0.047032
0.086	0.04344	0.065019	0.040681	0.034226	0.048994	0.070576	0.04334
0.084	0.03968	0.043333	0.036924	0.031247	0.045238	0.04889	0.039648
0.085	0.03592	0.023591	0.033167	0.027216	0.041481	0.029148	0.035956
0.079	0.03217	0.005791	0.02941	0.022135	0.037724	0.011349	0.032264
0.055	0.02841	-0.01006	0.025654	0.016002	0.033967	-0.00451	0.028572
0.311	0.31202	0.263901	0.309261	0.272765	0.306742	0.258626	0.312143
0.313	0.30838	0.267464	0.305619	0.270837	0.3031	0.262189	0.308451
0.314	0.30473	0.27297	0.301978	0.267858	0.299459	0.267695	0.304759
0.317	0.30109	0.28042	0.298336	0.263828	0.295817	0.275145	0.301067
0.306	0.29745	0.289813	0.294694	0.258747	0.292175	0.284538	0.297375
0.281	0.29381	0.301149	0.291053	0.252613	0.288534	0.295874	0.293683
0.266	0.28193	0.257574	0.279178	0.269445	0.276659	0.252299	0.282024
0.267	0.27828	0.257738	0.275522	0.267518	0.273003	0.252463	0.278332

0.268	0.27462	0.259846	0.271866	0.264539	0.269347	0.25457	0.27464
0.268	0.27097	0.263896	0.26821	0.260509	0.265691	0.258621	0.270948
0.255	0.26731	0.26989	0.264554	0.255427	0.262035	0.264615	0.267256
0.239	0.26365	0.277828	0.260898	0.249294	0.258379	0.272553	0.263564
0.223	0.25185	0.247659	0.249095	0.259487	0.246577	0.242384	0.251906
0.224	0.24818	0.244424	0.245425	0.257559	0.242906	0.239149	0.248214
0.225	0.24451	0.243133	0.241754	0.25458	0.239236	0.237857	0.244521
0.217	0.24084	0.243784	0.238084	0.25055	0.235565	0.238509	0.240829
0.208	0.23717	0.246379	0.234413	0.245468	0.231895	0.241104	0.237137
0.201	0.2335	0.250917	0.230743	0.239335	0.228224	0.245642	0.233445
0.156	0.19169	0.217064	0.18893	0.219652	0.186411	0.211789	0.191668
0.151	0.18799	0.207031	0.185231	0.217725	0.182712	0.201756	0.187976
0.155	0.18429	0.198941	0.181531	0.214746	0.179013	0.193666	0.184284
0.154	0.18059	0.192794	0.177832	0.210715	0.175313	0.187519	0.180592
0.143	0.17689	0.188591	0.174133	0.205634	0.171614	0.183316	0.1769
0.141	0.17319	0.186331	0.170434	0.199501	0.167915	0.181056	0.173208
0.123	0.13152	0.172114	0.128764	0.153261	0.126246	0.166839	0.131431
0.117	0.12779	0.155283	0.125036	0.151334	0.122517	0.150008	0.127738
0.117	0.12406	0.140395	0.121308	0.148355	0.118789	0.13512	0.124046
0.117	0.12034	0.12745	0.11758	0.144324	0.115061	0.122175	0.120354
0.116	0.11661	0.116449	0.113852	0.139243	0.111333	0.111174	0.116662
0.109	0.11288	0.107391	0.110124	0.13311	0.107605	0.102116	0.11297
0.089	0.07136	0.11281	0.068599	0.060314	0.06608	0.107535	0.071193
0.094	0.0676	0.08918	0.064842	0.058386	0.062323	0.083905	0.067501
0.093	0.06384	0.067494	0.061085	0.055407	0.058566	0.062219	0.063809
0.093	0.06008	0.047752	0.057328	0.051377	0.054809	0.042476	0.060117
0.088	0.05633	0.029952	0.053571	0.046295	0.051053	0.024677	0.056425
0.071	0.05257	0.014096	0.049814	0.040162	0.047296	0.008821	0.052733
0.399	0.36034	0.312222	0.357583	0.321087	0.360057	0.31194	0.360465
0.404	0.3567	0.315785	0.353941	0.319159	0.356415	0.315503	0.356773
0.401	0.35306	0.321292	0.350299	0.31618	0.352773	0.32101	0.353081
0.396	0.34941	0.328741	0.346658	0.31215	0.349132	0.328459	0.349389
0.395	0.34577	0.338134	0.343016	0.307068	0.34549	0.337852	0.345697
0.378	0.34213	0.349471	0.339374	0.300935	0.341848	0.349189	0.342004
0.348	0.33026	0.305896	0.3275	0.317767	0.329974	0.305614	0.330346
0.347	0.3266	0.30606	0.323844	0.31584	0.326318	0.305778	0.326654
0.346	0.32294	0.308167	0.320188	0.312861	0.322662	0.307885	0.322962
0.346	0.31929	0.312218	0.316532	0.30883	0.319006	0.311936	0.31927
0.339	0.31563	0.318212	0.312876	0.303749	0.31535	0.31793	0.315578
0.299	0.31198	0.326149	0.309219	0.297616	0.311694	0.325867	0.311886
0.276	0.30017	0.295981	0.297417	0.307808	0.299891	0.295699	0.300227
0.281	0.2965	0.292746	0.293747	0.305881	0.296221	0.292464	0.296535
0.282	0.29283	0.291454	0.290076	0.302902	0.29255	0.291172	0.292843
0.281	0.28916	0.292106	0.286406	0.298872	0.28888	0.291824	0.289151
0.282	0.28549	0.294701	0.282735	0.29379	0.285209	0.294419	0.285459
0.261	0.28182	0.299239	0.279065	0.287657	0.281539	0.298957	0.281767
0.152	0.24001	0.265386	0.237252	0.267974	0.239726	0.265103	0.23999
0.149	0.23631	0.255352	0.233552	0.266046	0.236026	0.25507	0.236298

0.148	0.23261	0.247262	0.229853	0.263067	0.232327	0.24698	0.232606
0.151	0.22891	0.241116	0.226154	0.259037	0.228628	0.240834	0.228914
0.153	0.22521	0.236913	0.222454	0.253955	0.224929	0.236631	0.225222
0.144	0.22151	0.234653	0.218755	0.247822	0.221229	0.234371	0.221529
0.115	0.17984	0.220436	0.177086	0.201583	0.17956	0.220153	0.179752
0.116	0.17611	0.203604	0.173358	0.199655	0.175832	0.203322	0.17606
0.119	0.17239	0.188716	0.16963	0.196676	0.172104	0.188434	0.172368
0.121	0.16866	0.175772	0.165902	0.192646	0.168376	0.17549	0.168676
0.116	0.16493	0.164771	0.162174	0.187565	0.164648	0.164489	0.164984
0.109	0.1612	0.155713	0.158446	0.181431	0.16092	0.155431	0.161292
0.081	0.11968	0.161131	0.116921	0.108636	0.119395	0.160849	0.119515
0.079	0.11592	0.137502	0.113164	0.106708	0.115638	0.13722	0.115823
0.08	0.11216	0.115816	0.109407	0.103729	0.111881	0.115534	0.112131
0.079	0.10841	0.096073	0.10565	0.099699	0.108124	0.095791	0.108439
0.075	0.10465	0.078274	0.101893	0.094617	0.104367	0.077992	0.104747
0.066	0.10089	0.062418	0.098136	0.088484	0.10061	0.062136	0.101054
0.218	0.26222	0.214104	0.269039	0.222968	0.267778	0.219661	0.262346
0.221	0.25858	0.217667	0.265398	0.221041	0.264136	0.223224	0.258654
0.221	0.25494	0.223173	0.261756	0.218062	0.260494	0.22873	0.254962
0.221	0.2513	0.230623	0.258114	0.214032	0.256853	0.23618	0.25127
0.22	0.24765	0.240016	0.254473	0.20895	0.253211	0.245573	0.247578
0.211	0.24401	0.251352	0.250831	0.202817	0.249569	0.25691	0.243886
0.194	0.23214	0.207778	0.238957	0.219649	0.237695	0.213335	0.232228
0.197	0.22848	0.207942	0.235301	0.217721	0.234039	0.213499	0.228536
0.201	0.22483	0.210049	0.231644	0.214742	0.230383	0.215606	0.224844
0.195	0.22117	0.214099	0.227988	0.210712	0.226727	0.219657	0.221151
0.181	0.21751	0.220093	0.224332	0.20563	0.223071	0.225651	0.217459
0.181	0.21386	0.228031	0.220676	0.199497	0.219415	0.233588	0.213767
0.177	0.20205	0.197863	0.208874	0.20969	0.207612	0.20342	0.202109
0.183	0.19838	0.194628	0.205203	0.207763	0.203942	0.200185	0.198417
0.183	0.19471	0.193336	0.201533	0.204784	0.200271	0.198893	0.194725
0.183	0.19104	0.193987	0.197862	0.200753	0.196601	0.199545	0.191033
0.171	0.18737	0.196582	0.194192	0.195672	0.19293	0.20214	0.187341
0.156	0.1837	0.201121	0.190522	0.189539	0.18926	0.206678	0.183649
0.122	0.14189	0.167267	0.148708	0.169855	0.147447	0.172824	0.141871
0.122	0.13819	0.157234	0.145009	0.167928	0.143747	0.162791	0.138179
0.122	0.13449	0.149144	0.14131	0.164949	0.140048	0.154701	0.134487
0.121	0.13079	0.142998	0.137611	0.160919	0.136349	0.148555	0.130795
0.119	0.12709	0.138794	0.133911	0.155837	0.132649	0.144352	0.127103
0.105	0.12339	0.136535	0.130212	0.149704	0.12895	0.142092	0.123411
0.102	0.08172	0.122317	0.088543	0.103465	0.087281	0.127874	0.081634
0.103	0.078	0.105486	0.084815	0.101537	0.083553	0.111043	0.077942
0.101	0.07427	0.090598	0.081087	0.098558	0.079825	0.096155	0.07425
0.098	0.07054	0.077653	0.077359	0.094528	0.076097	0.083211	0.070558
0.097	0.06681	0.066652	0.073631	0.089446	0.072369	0.072209	0.066866
0.078	0.06308	0.057594	0.069902	0.083313	0.068641	0.063152	0.063174
0.077	0.02156	0.063013	0.028377	0.010517	0.027116	0.06857	0.021396
0.075	0.0178	0.039383	0.02462	0.00859	0.023359	0.044941	0.017704

0.073	0.01404	0.017697	0.020864	0.005611	0.019602	0.023255	0.014012
0.068	0.01029	-0.00205	0.017107	0.00158	0.015845	0.003512	0.01032
0.065	0.00653	-0.01984	0.01335	-0.0035	0.012088	-0.01429	0.006628
0.049	0.00277	-0.0357	0.009593	-0.00963	0.008331	-0.03014	0.002936
0.321	0.28638	0.238265	0.2932	0.247129	0.281106	0.23299	0.286507
0.316	0.28274	0.241828	0.289559	0.245202	0.277465	0.236553	0.282815
0.316	0.2791	0.247334	0.285917	0.242223	0.273823	0.242059	0.279123
0.315	0.27546	0.254784	0.282275	0.238192	0.270181	0.249509	0.275431
0.311	0.27181	0.264177	0.278634	0.233111	0.26654	0.258902	0.271739
0.287	0.26817	0.275513	0.274992	0.226978	0.262898	0.270238	0.268047
0.259	0.2563	0.231939	0.263117	0.24381	0.251023	0.226664	0.256389
0.255	0.25264	0.232102	0.259461	0.241882	0.247367	0.226827	0.252696
0.257	0.24899	0.23421	0.255805	0.238903	0.243711	0.228935	0.249004
0.253	0.24533	0.23826	0.252149	0.234873	0.240055	0.232985	0.245312
0.251	0.24167	0.244254	0.248493	0.229791	0.236399	0.238979	0.24162
0.244	0.23802	0.252192	0.244837	0.223658	0.232743	0.246917	0.237928
0.217	0.22622	0.222024	0.233035	0.233851	0.220941	0.216749	0.22627
0.211	0.22255	0.218788	0.229364	0.231923	0.21727	0.213513	0.222578
0.209	0.21887	0.217497	0.225694	0.228944	0.2136	0.212222	0.218886
0.213	0.2152	0.218148	0.222023	0.224914	0.209929	0.212873	0.215194
0.204	0.21153	0.220743	0.218353	0.219832	0.206259	0.215468	0.211502
0.196	0.20786	0.225282	0.214682	0.213699	0.202588	0.220007	0.207809
0.162	0.16605	0.191428	0.172869	0.194016	0.160775	0.186153	0.166032
0.155	0.16235	0.181395	0.16917	0.192089	0.157076	0.17612	0.16234
0.168	0.15865	0.173305	0.165471	0.18911	0.153377	0.16803	0.158648
0.153	0.15495	0.167158	0.161771	0.18508	0.149677	0.161883	0.154956
0.149	0.15125	0.162955	0.158072	0.179998	0.145978	0.15768	0.151264
0.139	0.14755	0.160696	0.154373	0.173865	0.142279	0.155421	0.147572
0.114	0.10588	0.146478	0.112704	0.127625	0.10061	0.141203	0.105795
0.115	0.10216	0.129647	0.108976	0.125698	0.096882	0.124372	0.102103
0.114	0.09843	0.114759	0.105248	0.122719	0.093154	0.109484	0.098411
0.115	0.0947	0.101814	0.101519	0.118689	0.089426	0.096539	0.094719
0.108	0.09097	0.090813	0.097791	0.113607	0.085697	0.085538	0.091026
0.107	0.08724	0.081755	0.094063	0.107474	0.081969	0.07648	0.087334
0.086	0.04572	0.087174	0.052538	0.034678	0.040444	0.081899	0.045557
0.086	0.04196	0.063544	0.048781	0.032751	0.036687	0.058269	0.041865
0.087	0.03821	0.041858	0.045024	0.029772	0.03293	0.036583	0.038173
0.086	0.03445	0.022116	0.041268	0.025741	0.029174	0.016841	0.034481
0.075	0.03069	0.004316	0.037511	0.02066	0.025417	-0.00096	0.030789
0.048	0.02693	-0.01154	0.033754	0.014527	0.02166	-0.01681	0.027097
0.417	0.3347	0.286587	0.341522	0.295451	0.334421	0.286305	0.334829
0.419	0.33106	0.29015	0.33788	0.293523	0.330779	0.289867	0.331137
0.421	0.32742	0.295656	0.334239	0.290544	0.327138	0.295374	0.327445
0.409	0.32378	0.303105	0.330597	0.286514	0.323496	0.302823	0.323753
0.415	0.32014	0.312499	0.326955	0.281432	0.319854	0.312216	0.320061
0.393	0.31649	0.323835	0.323314	0.275299	0.316213	0.323553	0.316369
0.322	0.30462	0.28026	0.311439	0.292131	0.304338	0.279978	0.30471
0.306	0.30096	0.280424	0.307783	0.290204	0.300682	0.280142	0.301018

0.315	0.29731	0.282531	0.304127	0.287225	0.297026	0.282249	0.297326
0.316	0.29365	0.286582	0.300471	0.283195	0.29337	0.2863	0.293634
0.315	0.29	0.292576	0.296815	0.278113	0.289714	0.292294	0.289942
0.291	0.28634	0.300513	0.293159	0.27198	0.286058	0.300231	0.28625
0.257	0.27454	0.270345	0.281356	0.282173	0.274255	0.270063	0.274591
0.256	0.27087	0.26711	0.277686	0.280245	0.270585	0.266828	0.270899
0.256	0.2672	0.265818	0.274015	0.277266	0.266914	0.265536	0.267207
0.255	0.26353	0.26647	0.270345	0.273236	0.263244	0.266188	0.263515
0.259	0.25986	0.269065	0.266675	0.268154	0.259573	0.268783	0.259823
0.241	0.25619	0.273603	0.263004	0.262021	0.255903	0.273321	0.256131
0.149	0.21437	0.23975	0.221191	0.242338	0.21409	0.239468	0.214354
0.148	0.21067	0.229717	0.217492	0.240411	0.210391	0.229434	0.210662
0.148	0.20697	0.221627	0.213792	0.237432	0.206691	0.221345	0.20697
0.148	0.20327	0.21548	0.210093	0.233401	0.202992	0.215198	0.203278
0.146	0.19957	0.211277	0.206394	0.22832	0.199293	0.210995	0.199586
0.131	0.19588	0.209017	0.202695	0.222187	0.195594	0.208735	0.195894
0.108	0.15421	0.1948	0.161025	0.175947	0.153924	0.194518	0.154116
0.109	0.15048	0.177968	0.157297	0.17402	0.150196	0.177686	0.150424
0.11	0.14675	0.163081	0.153569	0.171041	0.146468	0.162798	0.146732
0.109	0.14302	0.150136	0.149841	0.16701	0.14274	0.149854	0.14304
0.108	0.13929	0.139135	0.146113	0.161929	0.139012	0.138853	0.139348
0.098	0.13557	0.130077	0.142385	0.155796	0.135284	0.129795	0.135656
0.081	0.09404	0.135495	0.10086	0.083	0.093759	0.135213	0.093879
0.08	0.09028	0.111866	0.097103	0.081072	0.090002	0.111584	0.090187
0.081	0.08653	0.09018	0.093346	0.078093	0.086245	0.089898	0.086495
0.076	0.08277	0.070437	0.089589	0.074063	0.082488	0.070155	0.082803
0.075	0.07901	0.052638	0.085832	0.068981	0.078731	0.052356	0.079111
0.066	0.07526	0.036782	0.082076	0.062848	0.074974	0.0365	0.075419
0.236	0.24513	0.197014	0.240487	0.205878	0.250687	0.202571	0.245256
0.233	0.24149	0.200576	0.236845	0.20395	0.247045	0.206134	0.241564
0.237	0.23785	0.206083	0.233204	0.200971	0.243404	0.21164	0.237872
0.233	0.2342	0.213532	0.229562	0.196941	0.239762	0.21909	0.23418
0.233	0.23056	0.222925	0.22592	0.191859	0.23612	0.228483	0.230488
0.234	0.22692	0.234262	0.222279	0.185726	0.232479	0.239819	0.226796
0.181	0.21505	0.190687	0.210404	0.202558	0.220604	0.196244	0.215137
0.173	0.21139	0.190851	0.206748	0.200631	0.216948	0.196408	0.211445
0.172	0.20773	0.192958	0.203092	0.197652	0.213292	0.198515	0.207753
0.168	0.20408	0.197009	0.199436	0.193621	0.209636	0.202566	0.204061
0.163	0.20042	0.203003	0.19578	0.18854	0.20598	0.20856	0.200369
0.159	0.19677	0.21094	0.192124	0.182407	0.202324	0.216498	0.196677
0.132	0.18496	0.180772	0.180322	0.1926	0.190522	0.186329	0.185018
0.131	0.18129	0.177537	0.176651	0.190672	0.186851	0.183094	0.181326
0.124	0.17762	0.176245	0.172981	0.187693	0.183181	0.181802	0.177634
0.135	0.17395	0.176897	0.16931	0.183663	0.17951	0.182454	0.173942
0.125	0.17028	0.179492	0.16564	0.178581	0.17584	0.185049	0.17025
0.119	0.16661	0.18403	0.161969	0.172448	0.172169	0.189587	0.166558
0.095	0.1248	0.150177	0.120156	0.152765	0.130356	0.155734	0.124781
0.099	0.1211	0.140143	0.116457	0.150837	0.126657	0.145701	0.121089

0.098	0.1174	0.132054	0.112758	0.147858	0.122957	0.137611	0.117397
0.102	0.1137	0.125907	0.109058	0.143828	0.119258	0.131464	0.113705
0.087	0.11	0.121704	0.105359	0.138747	0.115559	0.127261	0.110013
0.083	0.1063	0.119444	0.10166	0.132613	0.11186	0.125001	0.106321
0.06	0.06463	0.105227	0.059991	0.086374	0.07019	0.110784	0.064543
0.066	0.06091	0.088395	0.056262	0.084446	0.066462	0.093953	0.060851
0.055	0.05718	0.073507	0.052534	0.081468	0.062734	0.079065	0.057159
0.068	0.05345	0.060563	0.048806	0.077437	0.059006	0.06612	0.053467
0.052	0.04972	0.049562	0.045078	0.072356	0.055278	0.055119	0.049775
0.041	0.04599	0.040504	0.04135	0.066223	0.05155	0.046061	0.046083
0.022	0.00447	0.045922	-0.00017	-0.00657	0.010025	0.05148	0.004306
0.023	0.00071	0.022293	-0.00393	-0.0085	0.006268	0.02785	0.000614
0.021	-0.00305	0.000607	-0.00769	-0.01148	0.002511	0.006164	-0.00308
0.029	-0.0068	-0.01914	-0.01145	-0.01551	-0.00125	-0.01358	-0.00677
0.019	-0.01056	-0.03693	-0.0152	-0.02059	-0.005	-0.03138	-0.01046
0.009	-0.01432	-0.05279	-0.01896	-0.02672	-0.00876	-0.04723	-0.01415
0.326	0.26929	0.221174	0.264648	0.230039	0.264016	0.215899	0.269417
0.322	0.26565	0.224737	0.261006	0.228111	0.260374	0.219462	0.265725
0.323	0.26201	0.230244	0.257365	0.225132	0.256732	0.224969	0.262033
0.327	0.25837	0.237693	0.253723	0.221102	0.253091	0.232418	0.258341
0.321	0.25472	0.247086	0.250081	0.21602	0.249449	0.241811	0.254648
0.319	0.25108	0.258423	0.24644	0.209887	0.245807	0.253148	0.250956
0.221	0.23921	0.214848	0.234565	0.226719	0.233933	0.209573	0.239298
0.229	0.23555	0.215012	0.230909	0.224791	0.230277	0.209737	0.235606
0.228	0.2319	0.217119	0.227253	0.221813	0.226621	0.211844	0.231914
0.224	0.22824	0.22117	0.223597	0.217782	0.222965	0.215895	0.228222
0.216	0.22458	0.227164	0.219941	0.212701	0.219309	0.221889	0.22453
0.205	0.22093	0.235101	0.216285	0.206568	0.215653	0.229826	0.220838
0.161	0.20913	0.204933	0.204482	0.21676	0.20385	0.199658	0.209179
0.157	0.20545	0.201698	0.200812	0.214833	0.20018	0.196423	0.205487
0.158	0.20178	0.200406	0.197142	0.211854	0.196509	0.195131	0.201795
0.159	0.19811	0.201058	0.193471	0.207824	0.192839	0.195783	0.198103
0.161	0.19444	0.203653	0.189801	0.202742	0.189168	0.198378	0.194411
0.144	0.19077	0.208191	0.18613	0.196609	0.185498	0.202916	0.190719
0.119	0.14896	0.174338	0.144317	0.176926	0.143685	0.169062	0.148942
0.117	0.14526	0.164304	0.140618	0.174998	0.139985	0.159029	0.14525
0.118	0.14156	0.156214	0.136918	0.172019	0.136286	0.150939	0.141558
0.116	0.13786	0.150068	0.133219	0.167989	0.132587	0.144793	0.137866
0.113	0.13416	0.145865	0.12952	0.162907	0.128888	0.14059	0.134173
0.107	0.13046	0.143605	0.125821	0.156774	0.125188	0.13833	0.130481
0.088	0.08879	0.129388	0.084151	0.110535	0.083519	0.124112	0.088704
0.083	0.08507	0.112556	0.080423	0.108607	0.079791	0.107281	0.085012
0.079	0.08134	0.097668	0.076695	0.105628	0.076063	0.092393	0.08132
0.085	0.07761	0.084724	0.072967	0.101598	0.072335	0.079449	0.077628
0.085	0.07388	0.073723	0.069239	0.096516	0.068607	0.068448	0.073936
0.071	0.07015	0.064665	0.065511	0.090383	0.064879	0.05939	0.070244
0.044	0.02863	0.070083	0.023986	0.017588	0.023354	0.064808	0.028467
0.039	0.02487	0.046454	0.020229	0.01566	0.019597	0.041179	0.024775

0.037	0.02111	0.024768	0.016472	0.012681	0.01584	0.019493	0.021083
0.031	0.01736	0.005025	0.012715	0.008651	0.012083	-0.00025	0.01739
0.027	0.0136	-0.01277	0.008958	0.003569	0.008326	-0.01805	0.013698
0.021	0.00984	-0.02863	0.005202	-0.00256	0.004569	-0.0339	0.010006
0.431	0.31761	0.269496	0.31297	0.27836	0.31733	0.269214	0.317738
0.424	0.31397	0.273059	0.309328	0.276433	0.313689	0.272777	0.314046
0.425	0.31033	0.278565	0.305686	0.273454	0.310047	0.278283	0.310354
0.421	0.30669	0.286015	0.302045	0.269424	0.306405	0.285733	0.306662
0.406	0.30305	0.295408	0.298403	0.264342	0.302764	0.295126	0.30297
0.4	0.2994	0.306744	0.294761	0.258209	0.299122	0.306462	0.299278
0.261	0.28753	0.26317	0.282887	0.275041	0.287248	0.262888	0.28762
0.254	0.28387	0.263334	0.279231	0.273113	0.283591	0.263051	0.283928
0.255	0.28022	0.265441	0.275575	0.270134	0.279935	0.265159	0.280236
0.256	0.27656	0.269491	0.271919	0.266104	0.276279	0.269209	0.276543
0.251	0.27291	0.275486	0.268263	0.261022	0.272623	0.275203	0.272851
0.239	0.26925	0.283423	0.264607	0.254889	0.268967	0.283141	0.269159
0.173	0.25745	0.253255	0.252804	0.265082	0.257165	0.252973	0.257501
0.163	0.25378	0.25002	0.249134	0.263155	0.253494	0.249738	0.253809
0.162	0.25011	0.248728	0.245463	0.260176	0.249824	0.248446	0.250117
0.159	0.24644	0.249379	0.241793	0.256145	0.246153	0.249097	0.246425
0.163	0.24277	0.251974	0.238122	0.251064	0.242483	0.251692	0.242733
0.152	0.23909	0.256513	0.234452	0.244931	0.238812	0.256231	0.239041
0.121	0.19728	0.222659	0.192639	0.225248	0.196999	0.222377	0.197263
0.119	0.19358	0.212626	0.188939	0.22332	0.1933	0.212344	0.193571
0.114	0.18988	0.204536	0.18524	0.220341	0.189601	0.204254	0.189879
0.115	0.18618	0.19839	0.181541	0.216311	0.185901	0.198107	0.186187
0.116	0.18248	0.194187	0.177842	0.211229	0.182202	0.193904	0.182495
0.104	0.17879	0.191927	0.174142	0.205096	0.178503	0.191645	0.178803
0.083	0.13712	0.177709	0.132473	0.158857	0.136834	0.177427	0.137026
0.079	0.13339	0.160878	0.128745	0.156929	0.133106	0.160596	0.133334
0.081	0.12966	0.14599	0.125017	0.15395	0.129378	0.145708	0.129642
0.083	0.12593	0.133045	0.121289	0.14992	0.12565	0.132763	0.12595
0.082	0.1222	0.122044	0.117561	0.144838	0.121922	0.121762	0.122258
0.056	0.11848	0.112986	0.113833	0.138705	0.118193	0.112704	0.118566
0.033	0.07695	0.118405	0.072308	0.065909	0.076668	0.118123	0.076788
0.036	0.07319	0.094776	0.068551	0.063982	0.072911	0.094493	0.073096
0.037	0.06944	0.073089	0.064794	0.061003	0.069155	0.072807	0.069404
0.025	0.06568	0.053347	0.061037	0.056972	0.065398	0.053065	0.065712
0.024	0.06192	0.035548	0.05728	0.051891	0.061641	0.035266	0.06202
0.021	0.05817	0.019692	0.053523	0.045758	0.057884	0.01941	0.058328
0.226	0.2928	0.244687	0.29021	0.253551	0.298361	0.250244	0.29293
0.227	0.28916	0.24825	0.286568	0.251624	0.294719	0.253807	0.289238
0.225	0.28552	0.253756	0.282927	0.248645	0.291077	0.259314	0.285545
0.225	0.28188	0.261206	0.279285	0.244615	0.287436	0.266763	0.281853
0.226	0.27824	0.270599	0.275643	0.239533	0.283794	0.276156	0.278161
0.219	0.2746	0.281936	0.272002	0.2334	0.280152	0.287493	0.274469
0.208	0.26272	0.238361	0.260127	0.250232	0.268278	0.243918	0.262811
0.207	0.25906	0.238525	0.256471	0.248304	0.264622	0.244082	0.259119

0.205	0.25541	0.240632	0.252815	0.245325	0.260966	0.246189	0.255427
0.207	0.25175	0.244683	0.249159	0.241295	0.25731	0.25024	0.251735
0.205	0.2481	0.250677	0.245503	0.236214	0.253654	0.256234	0.248043
0.186	0.24444	0.258614	0.241847	0.23008	0.249998	0.264171	0.244351
0.187	0.23264	0.228446	0.230045	0.240273	0.238195	0.234003	0.232692
0.188	0.22897	0.225211	0.226374	0.238346	0.234525	0.230768	0.229
0.189	0.2253	0.223919	0.222704	0.235367	0.230854	0.229476	0.225308
0.188	0.22163	0.224571	0.219033	0.231337	0.227184	0.230128	0.221616
0.185	0.21796	0.227166	0.215363	0.226255	0.223513	0.232723	0.217924
0.163	0.21429	0.231704	0.211692	0.220122	0.219843	0.237261	0.214232
0.145	0.17247	0.19785	0.169879	0.200439	0.17803	0.203408	0.172455
0.141	0.16877	0.187817	0.16618	0.198511	0.174331	0.193374	0.168763
0.142	0.16507	0.179727	0.162481	0.195532	0.170631	0.185284	0.16507
0.145	0.16137	0.173581	0.158781	0.191502	0.166932	0.179138	0.161378
0.148	0.15768	0.169378	0.155082	0.18642	0.163233	0.174935	0.157686
0.123	0.15398	0.167118	0.151383	0.180287	0.159533	0.172675	0.153994
0.118	0.11231	0.1529	0.109714	0.134048	0.117864	0.158458	0.112217
0.114	0.10858	0.136069	0.105986	0.13212	0.114136	0.141626	0.108525
0.115	0.10485	0.121181	0.102257	0.129141	0.110408	0.126738	0.104833
0.116	0.10112	0.108237	0.098529	0.125111	0.10668	0.113794	0.101141
0.114	0.09739	0.097235	0.094801	0.120029	0.102952	0.102793	0.097449
0.096	0.09367	0.088178	0.091073	0.113896	0.099224	0.093735	0.093757
0.089	0.05214	0.093596	0.049548	0.0411	0.057699	0.099153	0.05198
0.091	0.04838	0.069967	0.045791	0.039173	0.053942	0.075524	0.048288
0.092	0.04463	0.048281	0.042034	0.036194	0.050185	0.053838	0.044595
0.088	0.04087	0.028538	0.038277	0.032164	0.046428	0.034095	0.040903
0.079	0.03711	0.010739	0.034521	0.027082	0.042671	0.016296	0.037211
0.065	0.03336	-0.00512	0.030764	0.020949	0.038914	0.00044	0.033519
0.311	0.31696	0.268848	0.314371	0.277712	0.311689	0.263573	0.31709
0.312	0.31332	0.272411	0.310729	0.275785	0.308048	0.267136	0.313398
0.314	0.30968	0.277917	0.307088	0.272806	0.304406	0.272642	0.309706
0.312	0.30604	0.285367	0.303446	0.268776	0.300764	0.280092	0.306014
0.315	0.3024	0.29476	0.299804	0.263694	0.297123	0.289485	0.302322
0.298	0.29876	0.306096	0.296163	0.257561	0.293481	0.300821	0.29863
0.275	0.28688	0.262522	0.284288	0.274393	0.281607	0.257247	0.286972
0.276	0.28323	0.262686	0.280632	0.272465	0.277951	0.257411	0.28328
0.275	0.27957	0.264793	0.276976	0.269486	0.274295	0.259518	0.279588
0.273	0.27591	0.268844	0.27332	0.265456	0.270638	0.263568	0.275896
0.266	0.27226	0.274838	0.269664	0.260374	0.266982	0.269563	0.272203
0.247	0.2686	0.282775	0.266008	0.254241	0.263326	0.2775	0.268511
0.223	0.2568	0.252607	0.254205	0.264434	0.251524	0.247332	0.256853
0.221	0.25313	0.249372	0.250535	0.262507	0.247853	0.244097	0.253161
0.223	0.24946	0.24808	0.246865	0.259528	0.244183	0.242805	0.249469
0.219	0.24579	0.248731	0.243194	0.255497	0.240513	0.243456	0.245777
0.218	0.24212	0.251326	0.239524	0.250416	0.236842	0.246051	0.242085
0.201	0.23845	0.255865	0.235853	0.244283	0.233172	0.25059	0.238393
0.171	0.19663	0.222011	0.19404	0.2246	0.191358	0.216736	0.196615
0.169	0.19293	0.211978	0.190341	0.222672	0.187659	0.206703	0.192923

0.168	0.18923	0.203888	0.186641	0.219693	0.18396	0.198613	0.189231
0.163	0.18554	0.197742	0.182942	0.215663	0.180261	0.192467	0.185539
0.162	0.18184	0.193539	0.179243	0.210581	0.176561	0.188264	0.181847
0.148	0.17814	0.191279	0.175544	0.204448	0.172862	0.186004	0.178155
0.126	0.13647	0.177061	0.133874	0.158209	0.131193	0.171786	0.136378
0.125	0.13274	0.16023	0.130146	0.156281	0.127465	0.154955	0.132686
0.129	0.12901	0.145342	0.126418	0.153302	0.123737	0.140067	0.128994
0.128	0.12528	0.132397	0.12269	0.149272	0.120009	0.127122	0.125302
0.128	0.12156	0.121396	0.118962	0.14419	0.116281	0.116121	0.12161
0.117	0.11783	0.112339	0.115234	0.138057	0.112553	0.107064	0.117918
0.095	0.0763	0.117757	0.073709	0.065261	0.071027	0.112482	0.07614
0.096	0.07255	0.094128	0.069952	0.063334	0.067271	0.088853	0.072448
0.098	0.06879	0.072442	0.066195	0.060355	0.063514	0.067167	0.068756
0.097	0.06503	0.052699	0.062438	0.056325	0.059757	0.047424	0.065064
0.08	0.06127	0.0349	0.058681	0.051243	0.056	0.029625	0.061372
0.053	0.05752	0.019044	0.054925	0.04511	0.052243	0.013769	0.05768
0.416	0.36529	0.31717	0.362693	0.326034	0.365004	0.316888	0.365412
0.417	0.36164	0.320733	0.359051	0.324107	0.361362	0.320451	0.36172
0.415	0.358	0.326239	0.355409	0.321128	0.357721	0.325957	0.358028
0.414	0.35436	0.333689	0.351768	0.317097	0.354079	0.333407	0.354336
0.417	0.35072	0.343082	0.348126	0.312016	0.350437	0.3428	0.350644
0.389	0.34708	0.354418	0.344484	0.305883	0.346796	0.354136	0.346952
0.351	0.3352	0.310844	0.33261	0.322714	0.334921	0.310561	0.335293
0.349	0.33155	0.311007	0.328954	0.320787	0.331265	0.310725	0.331601
0.352	0.32789	0.313115	0.325298	0.317808	0.327609	0.312832	0.327909
0.352	0.32424	0.317165	0.321642	0.313778	0.323953	0.316883	0.324217
0.361	0.32058	0.323159	0.317986	0.308696	0.320297	0.322877	0.320525
0.318	0.31692	0.331097	0.31433	0.302563	0.316641	0.330815	0.316833
0.299	0.30512	0.300929	0.302527	0.312756	0.304839	0.300646	0.305175
0.286	0.30145	0.297693	0.298857	0.310828	0.301168	0.297411	0.301483
0.291	0.29778	0.296402	0.295186	0.307849	0.297498	0.296119	0.297791
0.295	0.29411	0.297053	0.291516	0.303819	0.293827	0.296771	0.294098
0.297	0.29044	0.299648	0.287845	0.298737	0.290157	0.299366	0.290406
0.267	0.28677	0.304187	0.284175	0.292604	0.286486	0.303904	0.286714
0.178	0.24496	0.270333	0.242362	0.272921	0.244673	0.270051	0.244937
0.181	0.24126	0.2603	0.238662	0.270994	0.240974	0.260018	0.241245
0.179	0.23756	0.25221	0.234963	0.268015	0.237275	0.251928	0.237553
0.181	0.23386	0.246063	0.231264	0.263985	0.233575	0.245781	0.233861
0.176	0.23016	0.24186	0.227565	0.258903	0.229876	0.241578	0.230169
0.153	0.22646	0.239601	0.223865	0.25277	0.226177	0.239318	0.226477
0.129	0.18479	0.225383	0.182196	0.20653	0.184508	0.225101	0.1847
0.128	0.18106	0.208552	0.178468	0.204603	0.180779	0.20827	0.181008
0.128	0.17733	0.193664	0.17474	0.201624	0.177051	0.193382	0.177316
0.127	0.17361	0.180719	0.171012	0.197594	0.173323	0.180437	0.173623
0.121	0.16988	0.169718	0.167284	0.192512	0.169595	0.169436	0.169931
0.108	0.16615	0.16066	0.163556	0.186379	0.165867	0.160378	0.166239
0.095	0.12462	0.166079	0.122031	0.113583	0.124342	0.165797	0.124462
0.099	0.12087	0.142449	0.118274	0.111655	0.120585	0.142167	0.12077

0.099	0.11711	0.120763	0.114517	0.108677	0.116828	0.120481	0.117078
0.096	0.11335	0.101021	0.11076	0.104646	0.113071	0.100739	0.113386
0.088	0.1096	0.083221	0.107003	0.099565	0.109315	0.082939	0.109694
0.079	0.10584	0.067366	0.103246	0.093432	0.105558	0.067083	0.106002
0.225	0.26717	0.219051	0.274149	0.227916	0.272725	0.224609	0.267294
0.226	0.26353	0.222614	0.270508	0.225988	0.269083	0.228172	0.263602
0.223	0.25988	0.228121	0.266866	0.223009	0.265442	0.233678	0.25991
0.224	0.25624	0.23557	0.263224	0.218979	0.2618	0.241127	0.256218
0.225	0.2526	0.244963	0.259583	0.213897	0.258158	0.250521	0.252526
0.22	0.24896	0.2563	0.255941	0.207764	0.254517	0.261857	0.248833
0.198	0.23709	0.212725	0.244067	0.224596	0.242642	0.218282	0.237175
0.198	0.23343	0.212889	0.240411	0.222669	0.238986	0.218446	0.233483
0.199	0.22977	0.214996	0.236755	0.21969	0.23533	0.220553	0.229791
0.191	0.22612	0.219047	0.233099	0.215659	0.231674	0.224604	0.226099
0.185	0.22246	0.225041	0.229442	0.210578	0.228018	0.230598	0.222407
0.177	0.2188	0.232978	0.225786	0.204445	0.224362	0.238535	0.218715
0.181	0.207	0.20281	0.213984	0.214637	0.212559	0.208367	0.207056
0.181	0.20333	0.199575	0.210313	0.21271	0.208889	0.205132	0.203364
0.181	0.19966	0.198283	0.206643	0.209731	0.205219	0.20384	0.199672
0.175	0.19599	0.198935	0.202973	0.205701	0.201548	0.204492	0.19598
0.173	0.19232	0.20153	0.199302	0.200619	0.197878	0.207087	0.192288
0.155	0.18865	0.206068	0.195632	0.194486	0.194207	0.211625	0.188596
0.126	0.14684	0.172215	0.153818	0.174803	0.152394	0.177772	0.146819
0.125	0.14314	0.162181	0.150119	0.172875	0.148695	0.167738	0.143127
0.126	0.13944	0.154091	0.14642	0.169896	0.144995	0.159649	0.139435
0.125	0.13574	0.147945	0.142721	0.165866	0.141296	0.153502	0.135743
0.122	0.13204	0.143742	0.139021	0.160784	0.137597	0.149299	0.132051
0.11	0.12834	0.141482	0.135322	0.154651	0.133898	0.147039	0.128358
0.101	0.08667	0.127265	0.093653	0.108412	0.092228	0.132822	0.086581
0.102	0.08294	0.110433	0.089925	0.106484	0.0885	0.11599	0.082889
0.1	0.07922	0.095545	0.086197	0.103505	0.084772	0.101103	0.079197
0.101	0.07549	0.082601	0.082469	0.099475	0.081044	0.088158	0.075505
0.1	0.07176	0.0716	0.078741	0.094394	0.077316	0.077157	0.071813
0.085	0.06803	0.062542	0.075013	0.08826	0.073588	0.068099	0.068121
0.075	0.02651	0.06796	0.033487	0.015465	0.032063	0.073517	0.026344
0.076	0.02275	0.044331	0.029731	0.013537	0.028306	0.049888	0.022652
0.073	0.01899	0.022645	0.025974	0.010558	0.024549	0.028202	0.01896
0.071	0.01524	0.002902	0.022217	0.006528	0.020792	0.008459	0.015268
0.069	0.01148	-0.0149	0.01846	0.001446	0.017035	-0.00934	0.011576
0.055	0.00772	-0.03075	0.014703	-0.00469	0.013279	-0.0252	0.007883
0.314	0.29133	0.243212	0.29831	0.252077	0.286054	0.237937	0.291455
0.315	0.28769	0.246775	0.294669	0.250149	0.282412	0.2415	0.287763
0.316	0.28405	0.252281	0.291027	0.24717	0.27877	0.247006	0.284071
0.317	0.2804	0.259731	0.287385	0.24314	0.275129	0.254456	0.280378
0.315	0.27676	0.269124	0.283744	0.238058	0.271487	0.263849	0.276686
0.301	0.27312	0.280461	0.280102	0.231925	0.267845	0.275186	0.272994
0.251	0.26125	0.236886	0.268228	0.248757	0.255971	0.231611	0.261336
0.252	0.25759	0.23705	0.264572	0.246829	0.252315	0.231775	0.257644

0.249	0.25393	0.239157	0.260915	0.243851	0.248659	0.233882	0.253952
0.251	0.25028	0.243208	0.257259	0.23982	0.245003	0.237933	0.25026
0.245	0.24662	0.249202	0.253603	0.234739	0.241347	0.243927	0.246568
0.233	0.24297	0.257139	0.249947	0.228605	0.237691	0.251864	0.242876
0.212	0.23116	0.226971	0.238145	0.238798	0.225888	0.221696	0.231217
0.211	0.22749	0.223736	0.234474	0.236871	0.222218	0.218461	0.227525
0.207	0.22382	0.222444	0.230804	0.233892	0.218547	0.217169	0.223833
0.206	0.22015	0.223096	0.227133	0.229862	0.214877	0.217821	0.220141
0.207	0.21648	0.225691	0.223463	0.22478	0.211206	0.220416	0.216449
0.191	0.21281	0.230229	0.219793	0.218647	0.207536	0.224954	0.212757
0.155	0.171	0.196375	0.177979	0.198964	0.165723	0.1911	0.17098
0.156	0.1673	0.186342	0.17428	0.197036	0.162023	0.181067	0.167288
0.157	0.1636	0.178252	0.170581	0.194057	0.158324	0.172977	0.163596
0.153	0.1599	0.172106	0.166882	0.190027	0.154625	0.166831	0.159903
0.156	0.1562	0.167903	0.163182	0.184945	0.150926	0.162628	0.156211
0.139	0.1525	0.165643	0.159483	0.178812	0.147226	0.160368	0.152519
0.117	0.11083	0.151425	0.117814	0.132573	0.105557	0.14615	0.110742
0.116	0.1071	0.134594	0.114086	0.130645	0.101829	0.129319	0.10705
0.117	0.10338	0.119706	0.110358	0.127666	0.098101	0.114431	0.103358
0.118	0.09965	0.106762	0.10663	0.123636	0.094373	0.101487	0.099666
0.118	0.09592	0.09576	0.102902	0.118554	0.090645	0.090485	0.095974
0.102	0.09219	0.086703	0.099173	0.112421	0.086917	0.081428	0.092282
0.075	0.05067	0.092121	0.057648	0.039625	0.045392	0.086846	0.050505
0.081	0.04691	0.068492	0.053891	0.037698	0.041635	0.063217	0.046813
0.079	0.04315	0.046806	0.050135	0.034719	0.037878	0.041531	0.04312
0.081	0.0394	0.027063	0.046378	0.030689	0.034121	0.021788	0.039428
0.078	0.03564	0.009264	0.042621	0.025607	0.030364	0.003989	0.035736
0.056	0.03188	-0.00659	0.038864	0.019474	0.026607	-0.01187	0.032044
0.419	0.33965	0.291534	0.346632	0.300398	0.339368	0.291252	0.339776
0.419	0.33601	0.295097	0.34299	0.298471	0.335727	0.294815	0.336084
0.418	0.33237	0.300603	0.339349	0.295492	0.332085	0.300321	0.332392
0.416	0.32873	0.308053	0.335707	0.291461	0.328443	0.307771	0.3287
0.41	0.32508	0.317446	0.332065	0.28638	0.324802	0.317164	0.325008
0.395	0.32144	0.328782	0.328424	0.280247	0.32116	0.3285	0.321316
0.322	0.30957	0.285208	0.316549	0.297079	0.309285	0.284926	0.309658
0.321	0.30591	0.285372	0.312893	0.295151	0.305629	0.285089	0.305966
0.318	0.30226	0.287479	0.309237	0.292172	0.301973	0.287197	0.302273
0.317	0.2986	0.291529	0.305581	0.288142	0.298317	0.291247	0.298581
0.311	0.29494	0.297523	0.301925	0.28306	0.294661	0.297241	0.294889
0.298	0.29129	0.305461	0.298269	0.276927	0.291005	0.305179	0.291197
0.268	0.27948	0.275293	0.286467	0.28712	0.279203	0.275011	0.279539
0.265	0.27581	0.272058	0.282796	0.285192	0.275532	0.271775	0.275847
0.261	0.27214	0.270766	0.279126	0.282214	0.271862	0.270484	0.272155
0.259	0.26847	0.271417	0.275455	0.278183	0.268191	0.271135	0.268463
0.258	0.2648	0.274012	0.271785	0.273102	0.264521	0.27373	0.264771
0.241	0.26113	0.278551	0.268114	0.266969	0.26085	0.278269	0.261079
0.156	0.21932	0.244697	0.226301	0.247285	0.219037	0.244415	0.219301
0.159	0.21562	0.234664	0.222602	0.245358	0.215338	0.234382	0.215609

0.161	0.21192	0.226574	0.218902	0.242379	0.211639	0.226292	0.211917
0.152	0.20822	0.220428	0.215203	0.238349	0.207939	0.220145	0.208225
0.151	0.20452	0.216224	0.211504	0.233267	0.20424	0.215942	0.204533
0.135	0.20082	0.213965	0.207805	0.227134	0.200541	0.213683	0.200841
0.116	0.15915	0.199747	0.166136	0.180895	0.158872	0.199465	0.159064
0.117	0.15543	0.182916	0.162407	0.178967	0.155144	0.182634	0.155372
0.115	0.1517	0.168028	0.158679	0.175988	0.151416	0.167746	0.15168
0.114	0.14797	0.155083	0.154951	0.171958	0.147688	0.154801	0.147988
0.113	0.14424	0.144082	0.151223	0.166876	0.143959	0.1438	0.144296
0.099	0.14051	0.135024	0.147495	0.160743	0.140231	0.134742	0.140604
0.075	0.09899	0.140443	0.10597	0.087947	0.098706	0.140161	0.098826
0.074	0.09523	0.116813	0.102213	0.08602	0.094949	0.116531	0.095134
0.071	0.09147	0.095127	0.098456	0.083041	0.091192	0.094845	0.091442
0.069	0.08772	0.075385	0.094699	0.07901	0.087436	0.075103	0.08775
0.071	0.08396	0.057586	0.090943	0.073929	0.083679	0.057303	0.084058
0.055	0.0802	0.04173	0.087186	0.067796	0.079922	0.041448	0.080366
0.222	0.25008	0.201961	0.245597	0.210825	0.255634	0.207518	0.250203
0.223	0.24644	0.205524	0.241956	0.208898	0.251993	0.211081	0.246511
0.226	0.24279	0.21103	0.238314	0.205919	0.248351	0.216587	0.242819
0.227	0.23915	0.21848	0.234672	0.201888	0.244709	0.224037	0.239127
0.228	0.23551	0.227873	0.231031	0.196807	0.241068	0.23343	0.235435
0.229	0.23187	0.239209	0.227389	0.190674	0.237426	0.244766	0.231743
0.181	0.21999	0.195635	0.215514	0.207506	0.225552	0.201192	0.220085
0.179	0.21634	0.195798	0.211858	0.205578	0.221896	0.201356	0.216392
0.178	0.21268	0.197906	0.208202	0.202599	0.21824	0.203463	0.2127
0.172	0.20903	0.201956	0.204546	0.198569	0.214583	0.207513	0.209008
0.171	0.20537	0.20795	0.20089	0.193487	0.210927	0.213507	0.205316
0.149	0.20171	0.215888	0.197234	0.187354	0.207271	0.221445	0.201624
0.133	0.18991	0.18572	0.185432	0.197547	0.195469	0.191277	0.189966
0.135	0.18624	0.182484	0.181761	0.195619	0.191798	0.188042	0.186274
0.131	0.18257	0.181193	0.178091	0.19264	0.188128	0.18675	0.182582
0.135	0.1789	0.181844	0.17442	0.18861	0.184458	0.187401	0.17889
0.131	0.17523	0.184439	0.17075	0.183528	0.180787	0.189996	0.175197
0.115	0.17156	0.188978	0.167079	0.177395	0.177117	0.194535	0.171505
0.101	0.12975	0.155124	0.125266	0.157712	0.135303	0.160681	0.129728
0.099	0.12605	0.145091	0.121567	0.155785	0.131604	0.150648	0.126036
0.098	0.12235	0.137001	0.117868	0.152806	0.127905	0.142558	0.122344
0.095	0.11865	0.130854	0.114168	0.148776	0.124206	0.136412	0.118652
0.093	0.11495	0.126651	0.110469	0.143694	0.120506	0.132209	0.11496
0.075	0.11125	0.124392	0.10677	0.137561	0.116807	0.129949	0.111268
0.065	0.06958	0.110174	0.065101	0.091321	0.075138	0.115731	0.069491
0.066	0.06585	0.093343	0.061373	0.089394	0.07141	0.0989	0.065799
0.061	0.06212	0.078455	0.057645	0.086415	0.067682	0.084012	0.062107
0.058	0.0584	0.06551	0.053916	0.082385	0.063954	0.071067	0.058415
0.055	0.05467	0.054509	0.050188	0.077303	0.060226	0.060066	0.054722
0.036	0.05094	0.045451	0.04646	0.07117	0.056498	0.051008	0.05103
0.022	0.00942	0.05087	0.004935	-0.00163	0.014972	0.056427	0.009253
0.021	0.00566	0.02724	0.001178	-0.00355	0.011216	0.032797	0.005561

0.019	0.0019	0.005554	-0.00258	-0.00653	0.007459	0.011111	0.001869
0.021	-0.00186	-0.01419	-0.00634	-0.01056	0.003702	-0.00863	-0.00182
0.017	-0.00561	-0.03199	-0.01009	-0.01564	-5.5E-05	-0.02643	-0.00552
0.006	-0.00937	-0.04784	-0.01385	-0.02178	-0.00381	-0.04229	-0.00921
0.311	0.27424	0.226122	0.269758	0.234986	0.268963	0.220847	0.274364
0.313	0.2706	0.229685	0.266116	0.233058	0.265321	0.22441	0.270672
0.318	0.26695	0.235191	0.262475	0.23008	0.26168	0.229916	0.26698
0.315	0.26331	0.242641	0.258833	0.226049	0.258038	0.237366	0.263288
0.312	0.25967	0.252034	0.255191	0.220968	0.254396	0.246759	0.259596
0.309	0.25603	0.26337	0.25155	0.214834	0.250755	0.258095	0.255904
0.218	0.24416	0.219795	0.239675	0.231666	0.23888	0.21452	0.244245
0.219	0.2405	0.219959	0.236019	0.229739	0.235224	0.214684	0.240553
0.221	0.23684	0.222067	0.232363	0.22676	0.231568	0.216792	0.236861
0.215	0.23319	0.226117	0.228707	0.22273	0.227912	0.220842	0.233169
0.218	0.22953	0.232111	0.225051	0.217648	0.224256	0.226836	0.229477
0.193	0.22588	0.240049	0.221395	0.211515	0.2206	0.234774	0.225785
0.161	0.21407	0.209881	0.209593	0.221708	0.208798	0.204605	0.214127
0.158	0.2104	0.206645	0.205922	0.21978	0.205127	0.20137	0.210435
0.162	0.20673	0.205354	0.202252	0.216801	0.201457	0.200078	0.206742
0.161	0.20306	0.206005	0.198581	0.212771	0.197786	0.20073	0.20305
0.156	0.19939	0.2086	0.194911	0.207689	0.194116	0.203325	0.199358
0.139	0.19572	0.213138	0.19124	0.201556	0.190445	0.207863	0.195666
0.121	0.15391	0.179285	0.149427	0.181873	0.148632	0.17401	0.153889
0.123	0.15021	0.169252	0.145728	0.179946	0.144933	0.163977	0.150197
0.126	0.14651	0.161162	0.142029	0.176967	0.141234	0.155887	0.146505
0.127	0.14281	0.155015	0.138329	0.172936	0.137534	0.14974	0.142813
0.123	0.13911	0.150812	0.13463	0.167855	0.133835	0.145537	0.139121
0.096	0.13541	0.148553	0.130931	0.161722	0.130136	0.143277	0.135429
0.083	0.09374	0.134335	0.089262	0.115482	0.088467	0.12906	0.093652
0.081	0.09001	0.117504	0.085533	0.113555	0.084738	0.112229	0.08996
0.082	0.08629	0.102616	0.081805	0.110576	0.08101	0.097341	0.086267
0.081	0.08256	0.089671	0.078077	0.106546	0.077282	0.084396	0.082575
0.083	0.07883	0.07867	0.074349	0.101464	0.073554	0.073395	0.078883
0.059	0.0751	0.069612	0.070621	0.095331	0.069826	0.064337	0.075191
0.032	0.03358	0.075031	0.029096	0.022535	0.028301	0.069756	0.033414
0.031	0.02982	0.051401	0.025339	0.020607	0.024544	0.046126	0.029722
0.031	0.02606	0.029715	0.021582	0.017628	0.020787	0.02444	0.02603
0.029	0.02231	0.009973	0.017825	0.013598	0.01703	0.004698	0.022338
0.031	0.01855	-0.00783	0.014069	0.008516	0.013274	-0.0131	0.018646
0.008	0.01479	-0.02368	0.010312	0.002383	0.009517	-0.02896	0.014954
0.42	0.32256	0.274444	0.31808	0.283308	0.322278	0.274161	0.322686
0.425	0.31892	0.278006	0.314438	0.28138	0.318636	0.277724	0.318994
0.423	0.31528	0.283513	0.310796	0.278401	0.314994	0.283231	0.315302
0.421	0.31163	0.290962	0.307155	0.274371	0.311353	0.29068	0.31161
0.413	0.30799	0.300355	0.303513	0.269289	0.307711	0.300073	0.307918
0.391	0.30435	0.311692	0.299871	0.263156	0.304069	0.31141	0.304226
0.261	0.29248	0.268117	0.287997	0.279988	0.292195	0.267835	0.292567
0.262	0.28882	0.268281	0.284341	0.278061	0.288539	0.267999	0.288875

0.263	0.28516	0.270388	0.280685	0.275082	0.284883	0.270106	0.285183
0.259	0.28151	0.274439	0.277029	0.271051	0.281227	0.274157	0.281491
0.254	0.27785	0.280433	0.273373	0.26597	0.277571	0.280151	0.277799
0.226	0.2742	0.28837	0.269717	0.259837	0.273915	0.288088	0.274107
0.172	0.26239	0.258202	0.257914	0.270029	0.262112	0.25792	0.262448
0.165	0.25872	0.254967	0.254244	0.268102	0.258442	0.254685	0.258756
0.163	0.25505	0.253675	0.250573	0.265123	0.254771	0.253393	0.255064
0.167	0.25138	0.254327	0.246903	0.261093	0.251101	0.254045	0.251372
0.161	0.24771	0.256922	0.243232	0.256011	0.24743	0.25664	0.24768
0.143	0.24404	0.26146	0.239562	0.249878	0.24376	0.261178	0.243988
0.118	0.20223	0.227607	0.197749	0.230195	0.201947	0.227324	0.202211
0.121	0.19853	0.217573	0.194049	0.228267	0.198247	0.217291	0.198519
0.123	0.19483	0.209483	0.19035	0.225288	0.194548	0.209201	0.194827
0.121	0.19113	0.203337	0.186651	0.221258	0.190849	0.203055	0.191135
0.119	0.18743	0.199134	0.182952	0.216176	0.18715	0.198852	0.187443
0.099	0.18373	0.196874	0.179252	0.210043	0.18345	0.196592	0.18375
0.088	0.14206	0.182657	0.137583	0.163804	0.141781	0.182375	0.141973
0.089	0.13834	0.165825	0.133855	0.161876	0.138053	0.165543	0.138281
0.085	0.13461	0.150937	0.130127	0.158898	0.134325	0.150655	0.134589
0.081	0.13088	0.137993	0.126399	0.154867	0.130597	0.137711	0.130897
0.075	0.12715	0.126992	0.122671	0.149786	0.126869	0.12671	0.127205
0.049	0.12342	0.117934	0.118943	0.143652	0.123141	0.117652	0.123513
0.041	0.0819	0.123352	0.077418	0.070857	0.081616	0.12307	0.081736
0.042	0.07814	0.099723	0.073661	0.068929	0.077859	0.099441	0.078044
0.036	0.07438	0.078037	0.069904	0.06595	0.074102	0.077755	0.074352
0.039	0.07063	0.058294	0.066147	0.06192	0.070345	0.058012	0.07066
0.033	0.06687	0.040495	0.06239	0.056838	0.066588	0.040213	0.066968
0.009	0.06311	0.024639	0.058633	0.050705	0.062831	0.024357	0.063275
0.235	0.29585	0.247732	0.293355	0.256596	0.301405	0.253289	0.295974
0.234	0.29221	0.251295	0.289713	0.254668	0.297764	0.256852	0.292282
0.235	0.28856	0.256801	0.286071	0.25169	0.294122	0.262358	0.28859
0.236	0.28492	0.264251	0.28243	0.247659	0.29048	0.269808	0.284898
0.228	0.28128	0.273644	0.278788	0.242578	0.286839	0.279201	0.281206
0.221	0.27764	0.28498	0.275146	0.236445	0.283197	0.290537	0.277514
0.21	0.26577	0.241406	0.263272	0.253276	0.271323	0.246963	0.265855
0.211	0.26211	0.241569	0.259616	0.251349	0.267667	0.247127	0.262163
0.211	0.25845	0.243677	0.25596	0.24837	0.26401	0.249234	0.258471
0.209	0.2548	0.247727	0.252304	0.24434	0.260354	0.253284	0.254779
0.205	0.25114	0.253721	0.248648	0.239258	0.256698	0.259278	0.251087
0.195	0.24749	0.261659	0.244992	0.233125	0.253042	0.267216	0.247395
0.187	0.23568	0.231491	0.233189	0.243318	0.24124	0.237048	0.235737
0.191	0.23201	0.228255	0.229519	0.24139	0.237569	0.233813	0.232045
0.192	0.22834	0.226964	0.225848	0.238411	0.233899	0.232521	0.228353
0.191	0.22467	0.227615	0.222178	0.234381	0.230228	0.233172	0.22466
0.193	0.221	0.23021	0.218507	0.229299	0.226558	0.235767	0.220968
0.165	0.21733	0.234749	0.214837	0.223166	0.222888	0.240306	0.217276
0.141	0.17552	0.200895	0.173024	0.203483	0.181074	0.206452	0.175499
0.146	0.17182	0.190862	0.169325	0.201556	0.177375	0.196419	0.171807

0.143	0.16812	0.182772	0.165625	0.198577	0.173676	0.188329	0.168115
0.141	0.16442	0.176625	0.161926	0.194547	0.169977	0.182183	0.164423
0.145	0.16072	0.172422	0.158227	0.189465	0.166277	0.177979	0.160731
0.123	0.15702	0.170163	0.154527	0.183332	0.162578	0.17572	0.157039
0.123	0.11535	0.155945	0.112858	0.137092	0.120909	0.161502	0.115262
0.119	0.11162	0.139114	0.10913	0.135165	0.117181	0.144671	0.11157
0.115	0.1079	0.124226	0.105402	0.132186	0.113453	0.129783	0.107878
0.119	0.10417	0.111281	0.101674	0.128156	0.109725	0.116838	0.104185
0.114	0.10044	0.10028	0.097946	0.123074	0.105997	0.105837	0.100493
0.088	0.09671	0.091222	0.094218	0.116941	0.102268	0.096779	0.096801
0.093	0.05519	0.096641	0.052693	0.044145	0.060743	0.102198	0.055024
0.088	0.05143	0.073011	0.048936	0.042217	0.056986	0.078568	0.051332
0.091	0.04767	0.051325	0.045179	0.039239	0.05323	0.056882	0.04764
0.087	0.04392	0.031583	0.041422	0.035208	0.049473	0.03714	0.043948
0.086	0.04016	0.013783	0.037665	0.030127	0.045716	0.019341	0.040256
0.062	0.0364	-0.00207	0.033908	0.023994	0.041959	0.003485	0.036564
0.329	0.32001	0.271893	0.317516	0.280757	0.314734	0.266618	0.320135
0.328	0.31637	0.275456	0.313874	0.278829	0.311092	0.270181	0.316443
0.331	0.31273	0.280962	0.310232	0.27585	0.307451	0.275687	0.312751
0.325	0.30908	0.288412	0.306591	0.27182	0.303809	0.283137	0.309059
0.327	0.30544	0.297805	0.302949	0.266738	0.300167	0.29253	0.305367
0.321	0.3018	0.309141	0.299307	0.260605	0.296526	0.303866	0.301675
0.281	0.28993	0.265566	0.287433	0.277437	0.284651	0.260291	0.290016
0.279	0.28627	0.26573	0.283777	0.27551	0.280995	0.260455	0.286324
0.283	0.28261	0.267837	0.280121	0.272531	0.277339	0.262562	0.282632
0.284	0.27896	0.271888	0.276465	0.268501	0.273683	0.266613	0.27894
0.278	0.2753	0.277882	0.272809	0.263419	0.270027	0.272607	0.275248
0.266	0.27165	0.28582	0.269153	0.257286	0.266371	0.280544	0.271556
0.232	0.25984	0.255651	0.25735	0.267479	0.254568	0.250376	0.259898
0.235	0.25617	0.252416	0.25368	0.265551	0.250898	0.247141	0.256205
0.235	0.2525	0.251124	0.250009	0.262572	0.247228	0.245849	0.252513
0.236	0.24883	0.251776	0.246339	0.258542	0.243557	0.246501	0.248821
0.231	0.24516	0.254371	0.242668	0.25346	0.239887	0.249096	0.245129
0.217	0.24149	0.258909	0.238998	0.247327	0.236216	0.253634	0.241437
0.173	0.19968	0.225056	0.197185	0.227644	0.194403	0.219781	0.19966
0.171	0.19598	0.215023	0.193485	0.225717	0.190704	0.209748	0.195968
0.169	0.19228	0.206933	0.189786	0.222738	0.187004	0.201658	0.192276
0.175	0.18858	0.200786	0.186087	0.218707	0.183305	0.195511	0.188584
0.176	0.18488	0.196583	0.182388	0.213626	0.179606	0.191308	0.184892
0.143	0.18118	0.194323	0.178688	0.207493	0.175907	0.189048	0.1812
0.129	0.13951	0.180106	0.137019	0.161253	0.134237	0.174831	0.139423
0.128	0.13578	0.163275	0.133291	0.159326	0.130509	0.157999	0.13573
0.129	0.13206	0.148387	0.129563	0.156347	0.126781	0.143112	0.132038
0.127	0.12833	0.135442	0.125835	0.152316	0.123053	0.130167	0.128346
0.127	0.1246	0.124441	0.122107	0.147235	0.119325	0.119166	0.124654
0.111	0.12087	0.115383	0.118379	0.141102	0.115597	0.110108	0.120962
0.098	0.07935	0.120802	0.076854	0.068306	0.074072	0.115526	0.079185
0.099	0.07559	0.097172	0.073097	0.066378	0.070315	0.091897	0.075493

0.093	0.07183	0.075486	0.06934	0.063399	0.066558	0.070211	0.071801
0.095	0.06808	0.055743	0.065583	0.059369	0.062801	0.050468	0.068109
0.088	0.06432	0.037944	0.061826	0.054287	0.059044	0.032669	0.064417
0.057	0.06056	0.022088	0.058069	0.048154	0.055288	0.016813	0.060725
0.421	0.36833	0.320214	0.365837	0.329079	0.368049	0.319932	0.368457
0.419	0.36469	0.323777	0.362196	0.327151	0.364407	0.323495	0.364765
0.418	0.36105	0.329284	0.358554	0.324172	0.360765	0.329001	0.361073
0.422	0.35741	0.336733	0.354912	0.320142	0.357124	0.336451	0.357381
0.418	0.35376	0.346126	0.351271	0.31506	0.353482	0.345844	0.353688
0.414	0.35012	0.357463	0.347629	0.308927	0.34984	0.357181	0.349996
0.375	0.33825	0.313888	0.335755	0.325759	0.337966	0.313606	0.338338
0.371	0.33459	0.314052	0.332099	0.323832	0.33431	0.31377	0.334646
0.368	0.33094	0.316159	0.328442	0.320853	0.330654	0.315877	0.330954
0.376	0.32728	0.32021	0.324786	0.316822	0.326998	0.319928	0.327262
0.373	0.32362	0.326204	0.32113	0.311741	0.323342	0.325922	0.32357
0.351	0.31997	0.334141	0.317474	0.305608	0.319686	0.333859	0.319878
0.301	0.30817	0.303973	0.305672	0.3158	0.307883	0.303691	0.308219
0.298	0.30449	0.300738	0.302001	0.313873	0.304213	0.300456	0.304527
0.299	0.30082	0.299446	0.298331	0.310894	0.300542	0.299164	0.300835
0.305	0.29715	0.300098	0.29466	0.306864	0.296872	0.299816	0.297143
0.294	0.29348	0.302693	0.29099	0.301782	0.293201	0.302411	0.293451
0.277	0.28981	0.307231	0.28732	0.295649	0.289531	0.306949	0.289759
0.181	0.248	0.273378	0.245506	0.275966	0.247718	0.273095	0.247982
0.182	0.2443	0.263344	0.241807	0.274038	0.244018	0.263062	0.24429
0.182	0.2406	0.255254	0.238108	0.271059	0.240319	0.254972	0.240598
0.183	0.2369	0.249108	0.234409	0.267029	0.23662	0.248826	0.236906
0.178	0.2332	0.244905	0.230709	0.261947	0.232921	0.244623	0.233213
0.16	0.2295	0.242645	0.22701	0.255814	0.229221	0.242363	0.229521
0.125	0.18783	0.228428	0.185341	0.209575	0.187552	0.228145	0.187744
0.131	0.18411	0.211596	0.181613	0.207647	0.183824	0.211314	0.184052
0.131	0.18038	0.196708	0.177885	0.204668	0.180096	0.196426	0.18036
0.132	0.17665	0.183764	0.174157	0.200638	0.176368	0.183482	0.176668
0.135	0.17292	0.172763	0.170429	0.195556	0.17264	0.17248	0.172976
0.112	0.16919	0.163705	0.166701	0.189423	0.168912	0.163423	0.169284
0.101	0.12767	0.169123	0.125175	0.116628	0.127387	0.168841	0.127507
0.093	0.12391	0.145494	0.121418	0.1147	0.12363	0.145212	0.123815
0.096	0.12015	0.123808	0.117662	0.111721	0.119873	0.123526	0.120123
0.088	0.1164	0.104065	0.113905	0.107691	0.116116	0.103783	0.116431
0.092	0.11264	0.086266	0.110148	0.102609	0.112359	0.085984	0.112738
0.068	0.10888	0.07041	0.106391	0.096476	0.108602	0.070128	0.109046
0.226	0.27021	0.222096	0.277294	0.23096	0.27577	0.227653	0.270338
0.225	0.26657	0.225659	0.273653	0.229033	0.272128	0.231216	0.266646
0.227	0.26293	0.231165	0.270011	0.226054	0.268486	0.236722	0.262954
0.225	0.25929	0.238615	0.266369	0.222023	0.264845	0.244172	0.259262
0.226	0.25565	0.248008	0.262728	0.216942	0.261203	0.253565	0.25557
0.215	0.252	0.259344	0.259086	0.210809	0.257561	0.264902	0.251878
0.195	0.24013	0.21577	0.247211	0.227641	0.245687	0.221327	0.24022
0.197	0.23647	0.215934	0.243555	0.225713	0.242031	0.221491	0.236528

0.195	0.23282	0.218041	0.239899	0.222734	0.238375	0.223598	0.232835
0.196	0.22916	0.222091	0.236243	0.218704	0.234719	0.227649	0.229143
0.195	0.22551	0.228085	0.232587	0.213622	0.231063	0.233643	0.225451
0.185	0.22185	0.236023	0.228931	0.207489	0.227406	0.24158	0.221759
0.181	0.21005	0.205855	0.217129	0.217682	0.215604	0.211412	0.210101
0.181	0.20638	0.20262	0.213458	0.215754	0.211934	0.208177	0.206409
0.182	0.20271	0.201328	0.209788	0.212776	0.208263	0.206885	0.202717
0.181	0.19904	0.201979	0.206117	0.208745	0.204593	0.207537	0.199025
0.185	0.19536	0.204574	0.202447	0.203664	0.200922	0.210132	0.195333
0.161	0.19169	0.209113	0.198776	0.197531	0.197252	0.21467	0.191641
0.126	0.14988	0.175259	0.156963	0.177847	0.155438	0.180816	0.149863
0.127	0.14618	0.165226	0.153264	0.17592	0.151739	0.170783	0.146171
0.128	0.14248	0.157136	0.149565	0.172941	0.14804	0.162693	0.142479
0.129	0.13878	0.15099	0.145865	0.168911	0.144341	0.156547	0.138787
0.125	0.13508	0.146786	0.142166	0.163829	0.140641	0.152344	0.135095
0.109	0.13139	0.144527	0.138467	0.157696	0.136942	0.150084	0.131403
0.111	0.08972	0.130309	0.096798	0.111456	0.095273	0.135866	0.089626
0.112	0.08599	0.113478	0.09307	0.109529	0.091545	0.119035	0.085934
0.109	0.08226	0.09859	0.089342	0.10655	0.087817	0.104147	0.082242
0.108	0.07853	0.085645	0.085613	0.10252	0.084089	0.091203	0.07855
0.107	0.0748	0.074644	0.081885	0.097438	0.080361	0.080201	0.074858
0.081	0.07108	0.065586	0.078157	0.091305	0.076633	0.071144	0.071166
0.081	0.02955	0.071005	0.036632	0.018509	0.035107	0.076562	0.029388
0.082	0.02579	0.047375	0.032875	0.016582	0.031351	0.052933	0.025696
0.079	0.02204	0.025689	0.029118	0.013603	0.027594	0.031247	0.022004
0.075	0.01828	0.005947	0.025362	0.009572	0.023837	0.011504	0.018312
0.069	0.01452	-0.01185	0.021605	0.004491	0.02008	-0.0063	0.01462
0.051	0.01077	-0.02771	0.017848	-0.00164	0.016323	-0.02215	0.010928
0.32	0.29437	0.246257	0.301455	0.255121	0.289098	0.240982	0.294499
0.319	0.29073	0.24982	0.297813	0.253194	0.285457	0.244545	0.290807
0.315	0.28709	0.255326	0.294172	0.250215	0.281815	0.250051	0.287115
0.318	0.28345	0.262776	0.29053	0.246184	0.278173	0.257501	0.283423
0.321	0.27981	0.272169	0.286888	0.241103	0.274532	0.266894	0.279731
0.299	0.27616	0.283505	0.283247	0.23497	0.27089	0.27823	0.276039
0.263	0.26429	0.239931	0.271372	0.251802	0.259015	0.234656	0.26438
0.262	0.26063	0.240094	0.267716	0.249874	0.255359	0.234819	0.260688
0.263	0.25698	0.242202	0.26406	0.246895	0.251703	0.236927	0.256996
0.265	0.25332	0.246252	0.260404	0.242865	0.248047	0.240977	0.253304
0.267	0.24967	0.252246	0.256748	0.237783	0.244391	0.246971	0.249612
0.239	0.24601	0.260184	0.253092	0.23165	0.240735	0.254909	0.24592
0.222	0.23421	0.230016	0.24129	0.241843	0.228933	0.224741	0.234262
0.221	0.23054	0.22678	0.237619	0.239915	0.225262	0.221505	0.23057
0.223	0.22687	0.225489	0.233949	0.236936	0.221592	0.220214	0.226878
0.221	0.2232	0.22614	0.230278	0.232906	0.217921	0.220865	0.223186
0.215	0.21953	0.228735	0.226608	0.227824	0.214251	0.22346	0.219493
0.201	0.21586	0.233274	0.222937	0.221691	0.21058	0.227999	0.215801
0.165	0.17404	0.19942	0.181124	0.202008	0.168767	0.194145	0.174024
0.161	0.17034	0.189387	0.177425	0.200081	0.165068	0.184112	0.170332

0.159	0.16664	0.181297	0.173725	0.197102	0.161369	0.176022	0.16664
0.155	0.16294	0.17515	0.170026	0.193072	0.157669	0.169875	0.162948
0.151	0.15925	0.170947	0.166327	0.18799	0.15397	0.165672	0.159256
0.144	0.15555	0.168688	0.162628	0.181857	0.150271	0.163413	0.155564
0.121	0.11388	0.15447	0.120958	0.135617	0.108602	0.149195	0.113787
0.122	0.11015	0.137639	0.11723	0.13369	0.104874	0.132364	0.110095
0.121	0.10642	0.122751	0.113502	0.130711	0.101146	0.117476	0.106403
0.119	0.10269	0.109806	0.109774	0.126681	0.097417	0.104531	0.10271
0.118	0.09896	0.098805	0.106046	0.121599	0.093689	0.09353	0.099018
0.101	0.09524	0.089747	0.102318	0.115466	0.089961	0.084472	0.095326
0.088	0.05371	0.095166	0.060793	0.04267	0.048436	0.089891	0.053549
0.078	0.04995	0.071536	0.057036	0.040742	0.044679	0.066261	0.049857
0.079	0.0462	0.04985	0.053279	0.037764	0.040922	0.044575	0.046165
0.085	0.04244	0.030108	0.049522	0.033733	0.037166	0.024833	0.042473
0.081	0.03868	0.012308	0.045766	0.028652	0.033409	0.007033	0.038781
0.059	0.03493	-0.00355	0.042009	0.022519	0.029652	-0.00882	0.035089
0.419	0.34269	0.294579	0.349777	0.303443	0.342413	0.294296	0.342821
0.418	0.33905	0.298141	0.346135	0.301515	0.338771	0.297859	0.339129
0.42	0.33541	0.303648	0.342493	0.298536	0.335129	0.303366	0.335437
0.418	0.33177	0.311097	0.338852	0.294506	0.331488	0.310815	0.331745
0.417	0.32813	0.32049	0.33521	0.289424	0.327846	0.320208	0.328053
0.401	0.32449	0.331827	0.331568	0.283291	0.324204	0.331545	0.324361
0.339	0.31261	0.288252	0.319694	0.300123	0.31233	0.28797	0.312702
0.335	0.30896	0.288416	0.316038	0.298196	0.308674	0.288134	0.30901
0.331	0.3053	0.290523	0.312382	0.295217	0.305018	0.290241	0.305318
0.329	0.30164	0.294574	0.308726	0.291186	0.301362	0.294292	0.301626
0.325	0.29799	0.300568	0.30507	0.286105	0.297706	0.300286	0.297934
0.301	0.29433	0.308505	0.301414	0.279972	0.29405	0.308223	0.294242
0.267	0.28253	0.278337	0.289611	0.290165	0.282247	0.278055	0.282583
0.271	0.27886	0.275102	0.285941	0.288237	0.278577	0.27482	0.278891
0.268	0.27519	0.27381	0.28227	0.285258	0.274906	0.273528	0.275199
0.269	0.27152	0.274462	0.2786	0.281228	0.271236	0.27418	0.271507
0.265	0.26785	0.277057	0.274929	0.276146	0.267565	0.276775	0.267815
0.239	0.26418	0.281595	0.271259	0.270013	0.263895	0.281313	0.264123
0.159	0.22236	0.247742	0.229446	0.25033	0.222082	0.24746	0.222346
0.158	0.21866	0.237708	0.225746	0.248402	0.218383	0.237426	0.218654
0.155	0.21497	0.229619	0.222047	0.245424	0.214683	0.229336	0.214962
0.156	0.21127	0.223472	0.218348	0.241393	0.210984	0.22319	0.21127
0.158	0.20757	0.219269	0.214649	0.236312	0.207285	0.218987	0.207578
0.138	0.20387	0.217009	0.210949	0.230179	0.203585	0.216727	0.203886
0.118	0.1622	0.202792	0.16928	0.183939	0.161916	0.20251	0.162108
0.114	0.15847	0.18596	0.165552	0.182012	0.158188	0.185678	0.158416
0.115	0.15474	0.171072	0.161824	0.179033	0.15446	0.17079	0.154724
0.113	0.15101	0.158128	0.158096	0.175002	0.150732	0.157846	0.151032
0.109	0.14729	0.147127	0.154368	0.169921	0.147004	0.146845	0.14734
0.098	0.14356	0.138069	0.15064	0.163788	0.143276	0.137787	0.143648
0.085	0.10203	0.143487	0.109115	0.090992	0.101751	0.143205	0.101871
0.079	0.09828	0.119858	0.105358	0.089064	0.097994	0.119576	0.098179

0.078	0.09452	0.098172	0.101601	0.086085	0.094237	0.09789	0.094487
0.075	0.09076	0.078429	0.097844	0.082055	0.09048	0.078147	0.090795
0.076	0.08701	0.06063	0.094087	0.076973	0.086723	0.060348	0.087103
0.059	0.08325	0.044774	0.09033	0.07084	0.082966	0.044492	0.083411
0.229	0.25312	0.205005	0.248742	0.21387	0.258679	0.210563	0.253248
0.228	0.24948	0.208568	0.2451	0.211942	0.255037	0.214126	0.249556
0.231	0.24584	0.214075	0.241459	0.208963	0.251396	0.219632	0.245864
0.225	0.2422	0.221524	0.237817	0.204933	0.247754	0.227081	0.242172
0.224	0.23856	0.230917	0.234175	0.199851	0.244112	0.236475	0.23848
0.227	0.23491	0.242254	0.230534	0.193718	0.240471	0.247811	0.234787
0.183	0.22304	0.198679	0.218659	0.21055	0.228596	0.204236	0.223129
0.184	0.21938	0.198843	0.215003	0.208623	0.22494	0.2044	0.219437
0.186	0.21573	0.20095	0.211347	0.205644	0.221284	0.206507	0.215745
0.183	0.21207	0.205001	0.207691	0.201613	0.217628	0.210558	0.212053
0.181	0.20841	0.210995	0.204035	0.196532	0.213972	0.216552	0.208361
0.153	0.20476	0.218932	0.200379	0.190399	0.210316	0.224489	0.204669
0.136	0.19296	0.188764	0.188576	0.200591	0.198513	0.194321	0.19301
0.138	0.18929	0.185529	0.184906	0.198664	0.194843	0.191086	0.189318
0.139	0.18562	0.184237	0.181235	0.195685	0.191173	0.189794	0.185626
0.131	0.18194	0.184889	0.177565	0.191655	0.187502	0.190446	0.181934
0.125	0.17827	0.187484	0.173895	0.186573	0.183832	0.193041	0.178242
0.108	0.1746	0.192022	0.170224	0.18044	0.180161	0.197579	0.17455
0.101	0.13279	0.158169	0.128411	0.160757	0.138348	0.163726	0.132773
0.098	0.12909	0.148135	0.124712	0.158829	0.134649	0.153692	0.129081
0.102	0.12539	0.140045	0.121012	0.15585	0.130949	0.145603	0.125389
0.097	0.12169	0.133899	0.117313	0.15182	0.12725	0.139456	0.121697
0.096	0.11799	0.129696	0.113614	0.146738	0.123551	0.135253	0.118005
0.078	0.11429	0.127436	0.109915	0.140605	0.119852	0.132993	0.114312
0.071	0.07263	0.113219	0.068245	0.094366	0.078182	0.118776	0.072535
0.065	0.0689	0.096387	0.064517	0.092438	0.074454	0.101944	0.068843
0.063	0.06517	0.081499	0.060789	0.089459	0.070726	0.087057	0.065151
0.061	0.06144	0.068555	0.057061	0.085429	0.066998	0.074112	0.061459
0.066	0.05771	0.057554	0.053333	0.080348	0.06327	0.063111	0.057767
0.038	0.05398	0.048496	0.049605	0.074214	0.059542	0.054053	0.054075
0.025	0.01246	0.053914	0.00808	0.001419	0.018017	0.059471	0.012298
0.026	0.0087	0.030285	0.004323	-0.00051	0.01426	0.035842	0.008606
0.021	0.00495	0.008599	0.000566	-0.00349	0.010503	0.014156	0.004914
0.022	0.00119	-0.01114	-0.00319	-0.00752	0.006746	-0.00559	0.001222
0.019	-0.00257	-0.02894	-0.00695	-0.0126	0.002989	-0.02339	-0.00247
0.009	-0.00632	-0.0448	-0.0107	-0.01873	-0.00077	-0.03924	-0.00616
0.317	0.27728	0.229166	0.272903	0.238031	0.272008	0.223891	0.277409
0.322	0.27364	0.232729	0.269261	0.236103	0.268366	0.227454	0.273717
0.318	0.27	0.238236	0.265619	0.233124	0.264724	0.23296	0.270025
0.319	0.26636	0.245685	0.261978	0.229094	0.261083	0.24041	0.266332
0.32	0.26272	0.255078	0.258336	0.224012	0.257441	0.249803	0.26264
0.313	0.25907	0.266415	0.254694	0.217879	0.253799	0.26114	0.258948
0.241	0.2472	0.22284	0.24282	0.234711	0.241925	0.217565	0.24729
0.239	0.24354	0.223004	0.239164	0.232783	0.238269	0.217729	0.243598

0.231	0.23989	0.225111	0.235508	0.229805	0.234613	0.219836	0.239906
0.228	0.23623	0.229162	0.231852	0.225774	0.230957	0.223887	0.236214
0.225	0.23258	0.235156	0.228196	0.220693	0.227301	0.229881	0.232522
0.201	0.22892	0.243093	0.22454	0.214559	0.223645	0.237818	0.22883
0.171	0.21712	0.212925	0.212737	0.224752	0.211842	0.20765	0.217171
0.168	0.21345	0.20969	0.209067	0.222825	0.208172	0.204415	0.213479
0.161	0.20978	0.208398	0.205396	0.219846	0.204501	0.203123	0.209787
0.16	0.20611	0.20905	0.201726	0.215816	0.200831	0.203775	0.206095
0.159	0.20244	0.211645	0.198055	0.210734	0.19716	0.20637	0.202403
0.125	0.19876	0.216183	0.194385	0.204601	0.19349	0.210908	0.198711
0.128	0.15695	0.182329	0.152572	0.184918	0.151677	0.177054	0.156934
0.121	0.15325	0.172296	0.148872	0.18299	0.147977	0.167021	0.153242
0.123	0.14955	0.164206	0.145173	0.180011	0.144278	0.158931	0.14955
0.124	0.14585	0.15806	0.141474	0.175981	0.140579	0.152785	0.145857
0.119	0.14215	0.153857	0.137775	0.170899	0.13688	0.148582	0.142165
0.083	0.13846	0.151597	0.134075	0.164766	0.13318	0.146322	0.138473
0.092	0.09679	0.137379	0.092406	0.118527	0.091511	0.132104	0.096696
0.091	0.09306	0.120548	0.088678	0.116599	0.087783	0.115273	0.093004
0.089	0.08933	0.10566	0.08495	0.11362	0.084055	0.100385	0.089312
0.083	0.0856	0.092716	0.081222	0.10959	0.080327	0.087441	0.08562
0.079	0.08187	0.081714	0.077494	0.104508	0.076599	0.076439	0.081928
0.055	0.07815	0.072657	0.073766	0.098375	0.072871	0.067382	0.078236
0.042	0.03662	0.078075	0.032241	0.025579	0.031346	0.0728	0.036459
0.039	0.03286	0.054446	0.028484	0.023652	0.027589	0.049171	0.032767
0.036	0.02911	0.03276	0.024727	0.020673	0.023832	0.027485	0.029074
0.033	0.02535	0.013017	0.02097	0.016643	0.020075	0.007742	0.025382
0.029	0.02159	-0.00478	0.017213	0.011561	0.016318	-0.01006	0.02169
0.003	0.01784	-0.02064	0.013456	0.005428	0.012561	-0.02591	0.017998
0.422	0.3256	0.277488	0.321224	0.286352	0.325322	0.277206	0.32573
0.425	0.32196	0.281051	0.317583	0.284425	0.321681	0.280769	0.322038
0.426	0.31832	0.286557	0.313941	0.281446	0.318039	0.286275	0.318346
0.427	0.31468	0.294007	0.310299	0.277415	0.314397	0.293725	0.314654
0.418	0.31104	0.3034	0.306658	0.272334	0.310756	0.303118	0.310962
0.401	0.3074	0.314736	0.303016	0.266201	0.307114	0.314454	0.30727
0.268	0.29552	0.271162	0.291142	0.283033	0.295239	0.27088	0.295612
0.269	0.29187	0.271326	0.287486	0.281105	0.291583	0.271043	0.29192
0.263	0.28821	0.273433	0.28383	0.278126	0.287927	0.273151	0.288227
0.261	0.28455	0.277483	0.280174	0.274096	0.284271	0.277201	0.284535
0.259	0.2809	0.283477	0.276517	0.269014	0.280615	0.283195	0.280843
0.227	0.27724	0.291415	0.272861	0.262881	0.276959	0.291133	0.277151
0.178	0.26544	0.261247	0.261059	0.273074	0.265157	0.260965	0.265493
0.179	0.26177	0.258012	0.257388	0.271146	0.261486	0.257729	0.261801
0.176	0.2581	0.25672	0.253718	0.268168	0.257816	0.256438	0.258109
0.175	0.25443	0.257371	0.250048	0.264137	0.254145	0.257089	0.254417
0.169	0.25076	0.259966	0.246377	0.259056	0.250475	0.259684	0.250725
0.133	0.24709	0.264505	0.242707	0.252923	0.246804	0.264223	0.247033
0.123	0.20527	0.230651	0.200893	0.233239	0.204991	0.230369	0.205255
0.118	0.20157	0.220618	0.197194	0.231312	0.201292	0.220336	0.201563

0.123	0.19787	0.212528	0.193495	0.228333	0.197593	0.212246	0.197871
0.119	0.19418	0.206382	0.189796	0.224303	0.193893	0.206099	0.194179
0.126	0.19048	0.202178	0.186096	0.219221	0.190194	0.201896	0.190487
0.086	0.18678	0.199919	0.182397	0.213088	0.186495	0.199637	0.186795
0.089	0.14511	0.185701	0.140728	0.166849	0.144826	0.185419	0.145018
0.086	0.14138	0.16887	0.137	0.164921	0.141098	0.168588	0.141326
0.086	0.13765	0.153982	0.133272	0.161942	0.13737	0.1537	0.137634
0.085	0.13392	0.141037	0.129544	0.157912	0.133642	0.140755	0.133942
0.083	0.1302	0.130036	0.125816	0.15283	0.129913	0.129754	0.13025
0.055	0.12647	0.120978	0.122088	0.146697	0.126185	0.120696	0.126558
0.044	0.08494	0.126397	0.080562	0.073901	0.08466	0.126115	0.08478
0.041	0.08119	0.102767	0.076806	0.071974	0.080903	0.102485	0.081088
0.044	0.07743	0.081081	0.073049	0.068995	0.077146	0.080799	0.077396
0.039	0.07367	0.061339	0.069292	0.064964	0.07339	0.061057	0.073704
0.041	0.06991	0.04354	0.065535	0.059883	0.069633	0.043257	0.070012
0.011	0.06616	0.027684	0.061778	0.05375	0.065876	0.027402	0.06632
0.231	0.29485	0.246733	0.292323	0.255597	0.300406	0.25229	0.294975
0.229	0.29121	0.250296	0.288681	0.253669	0.296765	0.255853	0.291283
0.228	0.28757	0.255802	0.28504	0.250691	0.293123	0.261359	0.287591
0.231	0.28392	0.263252	0.281398	0.24666	0.289481	0.268809	0.283899
0.229	0.28028	0.272645	0.277756	0.241579	0.28584	0.278202	0.280207
0.225	0.27664	0.283981	0.274115	0.235446	0.282198	0.289538	0.276515
0.215	0.26477	0.240407	0.26224	0.252277	0.270324	0.245964	0.264856
0.216	0.26111	0.24057	0.258584	0.25035	0.266668	0.246128	0.261164
0.213	0.25745	0.242678	0.254928	0.247371	0.263011	0.248235	0.257472
0.214	0.2538	0.246728	0.251272	0.243341	0.259355	0.252285	0.25378
0.215	0.25014	0.252722	0.247616	0.238259	0.255699	0.258279	0.250088
0.193	0.24649	0.26066	0.24396	0.232126	0.252043	0.266217	0.246396
0.199	0.23468	0.230492	0.232157	0.242319	0.240241	0.236049	0.234738
0.201	0.23101	0.227256	0.228487	0.240391	0.23657	0.232814	0.231046
0.199	0.22734	0.225965	0.224817	0.237412	0.2329	0.231522	0.227354
0.202	0.22367	0.226616	0.221146	0.233382	0.229229	0.232173	0.223661
0.195	0.22	0.229211	0.217476	0.2283	0.225559	0.234768	0.219969
0.164	0.21633	0.23375	0.213805	0.222167	0.221889	0.239307	0.216277
0.153	0.17452	0.199896	0.171992	0.202484	0.180075	0.205453	0.1745
0.155	0.17082	0.189863	0.168293	0.200557	0.176376	0.19542	0.170808
0.156	0.16712	0.181773	0.164593	0.197578	0.172677	0.18733	0.167116
0.151	0.16342	0.175626	0.160894	0.193548	0.168978	0.181184	0.163424
0.149	0.15972	0.171423	0.157195	0.188466	0.165278	0.17698	0.159732
0.121	0.15602	0.169164	0.153496	0.182333	0.161579	0.174721	0.15604
0.123	0.11435	0.154946	0.111826	0.136093	0.11991	0.160503	0.114263
0.121	0.11062	0.138115	0.108098	0.134166	0.116182	0.143672	0.110571
0.121	0.1069	0.123227	0.10437	0.131187	0.112454	0.128784	0.106879
0.123	0.10317	0.110282	0.100642	0.127157	0.108726	0.115839	0.103186
0.122	0.09944	0.099281	0.096914	0.122075	0.104998	0.104838	0.099494
0.091	0.09571	0.090223	0.093186	0.115942	0.101269	0.09578	0.095802
0.095	0.05419	0.095642	0.051661	0.043146	0.059744	0.101199	0.054025
0.094	0.05043	0.072012	0.047904	0.041218	0.055987	0.077569	0.050333

0.093	0.04667	0.050326	0.044147	0.03824	0.052231	0.055883	0.046641
0.091	0.04292	0.030584	0.04039	0.034209	0.048474	0.036141	0.042949
0.088	0.03916	0.012784	0.036633	0.029128	0.044717	0.018342	0.039257
0.061	0.0354	-0.00307	0.032877	0.022995	0.04096	0.002486	0.035565
0.32	0.31901	0.270894	0.316484	0.279758	0.313735	0.265619	0.319136
0.321	0.31537	0.274457	0.312842	0.27783	0.310093	0.269182	0.315444
0.322	0.31173	0.279963	0.3092	0.274851	0.306452	0.274688	0.311752
0.325	0.30809	0.287413	0.305559	0.270821	0.30281	0.282138	0.30806
0.319	0.30444	0.296806	0.301917	0.265739	0.299168	0.291531	0.304368
0.301	0.3008	0.308142	0.298276	0.259606	0.295527	0.302867	0.300676
0.287	0.28893	0.264567	0.286401	0.276438	0.283652	0.259292	0.289017
0.288	0.28527	0.264731	0.282745	0.274511	0.279996	0.259456	0.285325
0.291	0.28162	0.266838	0.279089	0.271532	0.27634	0.261563	0.281633
0.29	0.27796	0.270889	0.275433	0.267502	0.272684	0.265614	0.277941
0.289	0.2743	0.276883	0.271777	0.26242	0.269028	0.271608	0.274249
0.257	0.27065	0.284821	0.268121	0.256287	0.265372	0.279545	0.270557
0.231	0.25884	0.254652	0.256318	0.26648	0.253569	0.249377	0.258899
0.233	0.25517	0.251417	0.252648	0.264552	0.249899	0.246142	0.255206
0.235	0.2515	0.250125	0.248977	0.261573	0.246229	0.24485	0.251514
0.234	0.24783	0.250777	0.245307	0.257543	0.242558	0.245502	0.247822
0.231	0.24416	0.253372	0.241636	0.252461	0.238888	0.248097	0.24413
0.219	0.24049	0.25791	0.237966	0.246328	0.235217	0.252635	0.240438
0.178	0.19868	0.224057	0.196153	0.226645	0.193404	0.218782	0.198661
0.184	0.19498	0.214024	0.192454	0.224718	0.189705	0.208749	0.194969
0.181	0.19128	0.205934	0.188754	0.221739	0.186005	0.200659	0.191277
0.182	0.18758	0.199787	0.185055	0.217708	0.182306	0.194512	0.187585
0.179	0.18388	0.195584	0.181356	0.212627	0.178607	0.190309	0.183893
0.156	0.18018	0.193324	0.177656	0.206494	0.174908	0.188049	0.180201
0.131	0.13851	0.179107	0.135987	0.160254	0.133238	0.173832	0.138424
0.132	0.13479	0.162276	0.132259	0.158327	0.12951	0.157	0.134731
0.133	0.13106	0.147388	0.128531	0.155348	0.125782	0.142113	0.131039
0.135	0.12733	0.134443	0.124803	0.151317	0.122054	0.129168	0.127347
0.136	0.1236	0.123442	0.121075	0.146236	0.118326	0.118167	0.123655
0.115	0.11987	0.114384	0.117347	0.140103	0.114598	0.109109	0.119963
0.101	0.07835	0.119803	0.075822	0.067307	0.073073	0.114527	0.078186
0.099	0.07459	0.096173	0.072065	0.065379	0.069316	0.090898	0.074494
0.102	0.07083	0.074487	0.068308	0.0624	0.065559	0.069212	0.070802
0.103	0.06708	0.054744	0.064551	0.05837	0.061802	0.049469	0.06711
0.095	0.06332	0.036945	0.060794	0.053288	0.058046	0.03167	0.063418
0.066	0.05956	0.021089	0.057037	0.047155	0.054289	0.015814	0.059726
0.422	0.36733	0.319215	0.364806	0.32808	0.36705	0.318933	0.367458
0.421	0.36369	0.322778	0.361164	0.326152	0.363408	0.322496	0.363766
0.422	0.36005	0.328285	0.357522	0.323173	0.359766	0.328002	0.360074
0.425	0.35641	0.335734	0.353881	0.319143	0.356125	0.335452	0.356382
0.415	0.35277	0.345127	0.350239	0.314061	0.352483	0.344845	0.352689
0.405	0.34912	0.356464	0.346597	0.307928	0.348841	0.356182	0.348997
0.354	0.33725	0.312889	0.334723	0.32476	0.336967	0.312607	0.337339
0.351	0.33359	0.313053	0.331067	0.322833	0.333311	0.312771	0.333647

0.356	0.32994	0.31516	0.327411	0.319854	0.329655	0.314878	0.329955
0.349	0.32628	0.319211	0.323755	0.315823	0.325999	0.318929	0.326263
0.355	0.32262	0.325205	0.320099	0.310742	0.322343	0.324923	0.322571
0.321	0.31897	0.333142	0.316442	0.304609	0.318687	0.33286	0.318879
0.305	0.30717	0.302974	0.30464	0.314801	0.306884	0.302692	0.30722
0.301	0.3035	0.299739	0.30097	0.312874	0.303214	0.299457	0.303528
0.302	0.29983	0.298447	0.297299	0.309895	0.299543	0.298165	0.299836
0.302	0.29615	0.299099	0.293629	0.305865	0.295873	0.298817	0.296144
0.301	0.29248	0.301694	0.289958	0.300783	0.292202	0.301412	0.292452
0.273	0.28881	0.306232	0.286288	0.29465	0.288532	0.30595	0.28876
0.183	0.247	0.272379	0.244475	0.274967	0.246719	0.272096	0.246983
0.182	0.2433	0.262345	0.240775	0.273039	0.243019	0.262063	0.243291
0.181	0.2396	0.254255	0.237076	0.27006	0.23932	0.253973	0.239599
0.179	0.2359	0.248109	0.233377	0.26603	0.235621	0.247827	0.235907
0.182	0.2322	0.243906	0.229677	0.260948	0.231922	0.243624	0.232214
0.161	0.2285	0.241646	0.225978	0.254815	0.228222	0.241364	0.228522
0.136	0.18684	0.227429	0.184309	0.208576	0.186553	0.227146	0.186745
0.137	0.18311	0.210597	0.180581	0.206648	0.182825	0.210315	0.183053
0.136	0.17938	0.195709	0.176853	0.203669	0.179097	0.195427	0.179361
0.135	0.17565	0.182765	0.173125	0.199639	0.175369	0.182483	0.175669
0.129	0.17192	0.171764	0.169397	0.194557	0.171641	0.171481	0.171977
0.112	0.16819	0.162706	0.165669	0.188424	0.167913	0.162424	0.168285
0.088	0.12667	0.168124	0.124143	0.115629	0.126388	0.167842	0.126508
0.087	0.12291	0.144495	0.120387	0.113701	0.122631	0.144213	0.122816
0.089	0.11916	0.122809	0.11663	0.110722	0.118874	0.122527	0.119124
0.091	0.1154	0.103066	0.112873	0.106692	0.115117	0.102784	0.115432
0.087	0.11164	0.085267	0.109116	0.10161	0.11136	0.084985	0.111739
0.056	0.10789	0.069411	0.105359	0.095477	0.107603	0.069129	0.108047
0.227	0.26921	0.221097	0.276262	0.229961	0.274771	0.226654	0.269339
0.225	0.26557	0.22466	0.272621	0.228034	0.271129	0.230217	0.265647
0.226	0.26193	0.230166	0.268979	0.225055	0.267487	0.235723	0.261955
0.227	0.25829	0.237616	0.265337	0.221024	0.263846	0.243173	0.258263
0.225	0.25465	0.247009	0.261696	0.215943	0.260204	0.252566	0.254571
0.221	0.25101	0.258345	0.258054	0.20981	0.256562	0.263903	0.250879
0.202	0.23913	0.214771	0.24618	0.226642	0.244688	0.220328	0.239221
0.201	0.23547	0.214935	0.242523	0.224714	0.241032	0.220492	0.235529
0.203	0.23182	0.217042	0.238867	0.221735	0.237376	0.222599	0.231836
0.199	0.22816	0.221092	0.235211	0.217705	0.23372	0.22665	0.228144
0.195	0.22451	0.227086	0.231555	0.212623	0.230064	0.232644	0.224452
0.171	0.22085	0.235024	0.227899	0.20649	0.226407	0.240581	0.22076
0.185	0.20905	0.204856	0.216097	0.216683	0.214605	0.210413	0.209102
0.186	0.20538	0.201621	0.212426	0.214755	0.210935	0.207178	0.20541
0.187	0.20171	0.200329	0.208756	0.211777	0.207264	0.205886	0.201718
0.189	0.19804	0.20098	0.205085	0.207746	0.203594	0.206538	0.198026
0.183	0.19437	0.203575	0.201415	0.202665	0.199923	0.209133	0.194334
0.151	0.1907	0.208114	0.197744	0.196532	0.196253	0.213671	0.190642
0.132	0.14888	0.17426	0.155931	0.176848	0.15444	0.179817	0.148864
0.133	0.14518	0.164227	0.152232	0.174921	0.15074	0.169784	0.145172

0.132	0.14148	0.156137	0.148533	0.171942	0.147041	0.161694	0.14148
0.133	0.13778	0.149991	0.144834	0.167912	0.143342	0.155548	0.137788
0.135	0.13409	0.145787	0.141134	0.16283	0.139642	0.151345	0.134096
0.114	0.13039	0.143528	0.137435	0.156697	0.135943	0.149085	0.130404
0.108	0.08872	0.12931	0.095766	0.110457	0.094274	0.134867	0.088627
0.107	0.08499	0.112479	0.092038	0.10853	0.090546	0.118036	0.084935
0.106	0.08126	0.097591	0.08831	0.105551	0.086818	0.103148	0.081243
0.105	0.07753	0.084646	0.084582	0.101521	0.08309	0.090204	0.077551
0.104	0.0738	0.073645	0.080854	0.096439	0.079362	0.079202	0.073859
0.078	0.07008	0.064587	0.077125	0.090306	0.075634	0.070145	0.070167
0.081	0.02855	0.070006	0.0356	0.01751	0.034108	0.075563	0.028389
0.083	0.02479	0.046376	0.031843	0.015583	0.030352	0.051934	0.024697
0.085	0.02104	0.02469	0.028087	0.012604	0.026595	0.030248	0.021005
0.082	0.01728	0.004948	0.02433	0.008573	0.022838	0.010505	0.017313
0.079	0.01352	-0.01285	0.020573	0.003492	0.019081	-0.00729	0.013621
0.048	0.00977	-0.02871	0.016816	-0.00264	0.015324	-0.02315	0.009929
0.318	0.29337	0.245258	0.300423	0.254122	0.288099	0.239983	0.2935
0.315	0.28973	0.248821	0.296782	0.252195	0.284458	0.243546	0.289808
0.315	0.28609	0.254327	0.29314	0.249216	0.280816	0.249052	0.286116
0.315	0.28245	0.261777	0.289498	0.245185	0.277174	0.256502	0.282424
0.318	0.27881	0.27117	0.285857	0.240104	0.273533	0.265895	0.278732
0.309	0.27517	0.282506	0.282215	0.233971	0.269891	0.277231	0.27504
0.263	0.26329	0.238932	0.27034	0.250803	0.258016	0.233657	0.263381
0.261	0.25964	0.239095	0.266684	0.248875	0.25436	0.23382	0.259689
0.26	0.25598	0.241203	0.263028	0.245896	0.250704	0.235928	0.255997
0.259	0.25232	0.245253	0.259372	0.241866	0.247048	0.239978	0.252305
0.257	0.24867	0.251247	0.255716	0.236784	0.243392	0.245972	0.248613
0.241	0.24501	0.259185	0.25206	0.230651	0.239736	0.25391	0.244921
0.221	0.23321	0.229017	0.240258	0.240844	0.227934	0.223742	0.233263
0.22	0.22954	0.225781	0.236587	0.238916	0.224263	0.220506	0.229571
0.221	0.22587	0.22449	0.232917	0.235937	0.220593	0.219215	0.225879
0.22	0.2222	0.225141	0.229246	0.231907	0.216922	0.219866	0.222187
0.219	0.21853	0.227736	0.225576	0.226825	0.213252	0.222461	0.218494
0.187	0.21486	0.232275	0.221905	0.220692	0.209581	0.227	0.214802
0.161	0.17304	0.198421	0.180092	0.201009	0.167768	0.193146	0.173025
0.162	0.16934	0.188388	0.176393	0.199082	0.164069	0.183113	0.169333
0.161	0.16564	0.180298	0.172694	0.196103	0.16037	0.175023	0.165641
0.161	0.16195	0.174151	0.168994	0.192073	0.15667	0.168876	0.161949
0.162	0.15825	0.169948	0.165295	0.186991	0.152971	0.164673	0.158257
0.131	0.15455	0.167689	0.161596	0.180858	0.149272	0.162414	0.154565
0.118	0.11288	0.153471	0.119927	0.134618	0.107603	0.148196	0.112788
0.118	0.10915	0.13664	0.116199	0.132691	0.103875	0.131365	0.109096
0.121	0.10542	0.121752	0.112471	0.129712	0.100147	0.116477	0.105404
0.12	0.10169	0.108807	0.108742	0.125682	0.096418	0.103532	0.101711
0.118	0.09797	0.097806	0.105014	0.1206	0.09269	0.092531	0.098019
0.096	0.09424	0.088748	0.101286	0.114467	0.088962	0.083473	0.094327
0.073	0.05271	0.094167	0.059761	0.041671	0.047437	0.088892	0.05255
0.072	0.04896	0.070537	0.056004	0.039743	0.04368	0.065262	0.048858

0.073	0.0452	0.048851	0.052247	0.036765	0.039923	0.043576	0.045166
0.072	0.04144	0.029109	0.048491	0.032734	0.036167	0.023834	0.041474
0.071	0.03768	0.011309	0.044734	0.027653	0.03241	0.006034	0.037782
0.048	0.03393	-0.00455	0.040977	0.02152	0.028653	-0.00982	0.03409
0.43	0.3417	0.29358	0.348745	0.302444	0.341414	0.293297	0.341822
0.429	0.33805	0.297142	0.345103	0.300516	0.337772	0.29686	0.33813
0.428	0.33441	0.302649	0.341462	0.297537	0.33413	0.302367	0.334438
0.427	0.33077	0.310098	0.33782	0.293507	0.330489	0.309816	0.330746
0.426	0.32713	0.319491	0.334178	0.288425	0.326847	0.319209	0.327054
0.401	0.32349	0.330828	0.330537	0.282292	0.323205	0.330546	0.323362
0.339	0.31161	0.287253	0.318662	0.299124	0.311331	0.286971	0.311703
0.34	0.30796	0.287417	0.315006	0.297197	0.307675	0.287135	0.308011
0.338	0.3043	0.289524	0.31135	0.294218	0.304019	0.289242	0.304319
0.337	0.30064	0.293575	0.307694	0.290187	0.300363	0.293293	0.300627
0.335	0.29699	0.299569	0.304038	0.285106	0.296707	0.299287	0.296935
0.302	0.29333	0.307506	0.300382	0.278973	0.293051	0.307224	0.293243
0.275	0.28153	0.277338	0.288579	0.289166	0.281248	0.277056	0.281584
0.274	0.27786	0.274103	0.284909	0.287238	0.277578	0.273821	0.277892
0.273	0.27419	0.272811	0.281238	0.284259	0.273907	0.272529	0.2742
0.27	0.27052	0.273463	0.277568	0.280229	0.270237	0.273181	0.270508
0.27	0.26685	0.276058	0.273898	0.275147	0.266566	0.275776	0.266816
0.252	0.26318	0.280596	0.270227	0.269014	0.262896	0.280314	0.263124
0.157	0.22136	0.246743	0.228414	0.249331	0.221083	0.246461	0.221347
0.161	0.21767	0.236709	0.224715	0.247403	0.217384	0.236427	0.217655
0.159	0.21397	0.22862	0.221015	0.244425	0.213684	0.228337	0.213963
0.162	0.21027	0.222473	0.217316	0.240394	0.209985	0.222191	0.210271
0.163	0.20657	0.21827	0.213617	0.235313	0.206286	0.217988	0.206579
0.128	0.20287	0.21601	0.209918	0.22918	0.202586	0.215728	0.202887
0.122	0.1612	0.201793	0.168248	0.18294	0.160917	0.201511	0.161109
0.121	0.15747	0.184961	0.16452	0.181013	0.157189	0.184679	0.157417
0.121	0.15374	0.170073	0.160792	0.178034	0.153461	0.169791	0.153725
0.12	0.15002	0.157129	0.157064	0.174003	0.149733	0.156847	0.150033
0.12	0.14629	0.146128	0.153336	0.168922	0.146005	0.145846	0.146341
0.088	0.14256	0.13707	0.149608	0.162789	0.142277	0.136788	0.142649
0.073	0.10103	0.142488	0.108083	0.089993	0.100752	0.142206	0.100872
0.072	0.09728	0.118859	0.104326	0.088065	0.096995	0.118577	0.09718
0.071	0.09352	0.097173	0.100569	0.085086	0.093238	0.096891	0.093488
0.072	0.08976	0.07743	0.096812	0.081056	0.089481	0.077148	0.089796
0.07	0.08601	0.059631	0.093055	0.075974	0.085724	0.059349	0.086104
0.04	0.08225	0.043775	0.089299	0.069841	0.081967	0.043493	0.082412
0.219	0.25212	0.204006	0.24771	0.212871	0.25768	0.209564	0.252249
0.218	0.24848	0.207569	0.244068	0.210943	0.254038	0.213127	0.248557
0.217	0.24484	0.213076	0.240427	0.207964	0.250397	0.218633	0.244865
0.215	0.2412	0.220525	0.236785	0.203934	0.246755	0.226082	0.241173
0.216	0.23756	0.229918	0.233143	0.198852	0.243113	0.235476	0.237481
0.199	0.23391	0.241255	0.229502	0.192719	0.239472	0.246812	0.233788
0.183	0.22204	0.19768	0.217627	0.209551	0.227597	0.203237	0.22213
0.185	0.21838	0.197844	0.213971	0.207624	0.223941	0.203401	0.218438

0.183	0.21473	0.199951	0.210315	0.204645	0.220285	0.205508	0.214746
0.181	0.21107	0.204002	0.206659	0.200614	0.216629	0.209559	0.211054
0.182	0.20742	0.209996	0.203003	0.195533	0.212973	0.215553	0.207362
0.163	0.20376	0.217933	0.199347	0.1894	0.209317	0.22349	0.20367
0.149	0.19196	0.187765	0.187545	0.199592	0.197514	0.193322	0.192011
0.148	0.18829	0.18453	0.183874	0.197665	0.193844	0.190087	0.188319
0.147	0.18462	0.183238	0.180204	0.194686	0.190174	0.188795	0.184627
0.148	0.18095	0.18389	0.176533	0.190656	0.186503	0.189447	0.180935
0.149	0.17728	0.186485	0.172863	0.185574	0.182833	0.192042	0.177243
0.123	0.1736	0.191023	0.169192	0.179441	0.179162	0.19658	0.173551
0.111	0.13179	0.15717	0.127379	0.159758	0.137349	0.162727	0.131774
0.112	0.12809	0.147136	0.12368	0.15783	0.13365	0.152694	0.128082
0.112	0.12439	0.139046	0.119981	0.154851	0.12995	0.144604	0.12439
0.109	0.12069	0.1329	0.116281	0.150821	0.126251	0.138457	0.120698
0.108	0.11699	0.128697	0.112582	0.145739	0.122552	0.134254	0.117006
0.071	0.1133	0.126437	0.108883	0.139606	0.118853	0.131994	0.113313
0.072	0.07163	0.11222	0.067214	0.093367	0.077183	0.117777	0.071536
0.07	0.0679	0.095388	0.063485	0.091439	0.073455	0.100945	0.067844
0.07	0.06417	0.0805	0.059757	0.088461	0.069727	0.086058	0.064152
0.071	0.06044	0.067556	0.056029	0.08443	0.065999	0.073113	0.06046
0.072	0.05671	0.056555	0.052301	0.079349	0.062271	0.062112	0.056768
0.041	0.05299	0.047497	0.048573	0.073215	0.058543	0.053054	0.053076
0.026	0.01146	0.052915	0.007048	0.00042	0.017018	0.058472	0.011299
0.029	0.0077	0.029286	0.003291	-0.00151	0.013261	0.034843	0.007607
0.028	0.00395	0.0076	-0.00047	-0.00449	0.009504	0.013157	0.003915
0.027	0.00019	-0.01214	-0.00422	-0.00852	0.005747	-0.00659	0.000223
0.025	-0.00357	-0.02994	-0.00798	-0.0136	0.00199	-0.02438	-0.00347
0.011	-0.00732	-0.0458	-0.01174	-0.01973	-0.00177	-0.04024	-0.00716
0.322	0.27628	0.228167	0.271871	0.237032	0.271009	0.222892	0.27641
0.325	0.27264	0.23173	0.268229	0.235104	0.267367	0.226455	0.272718
0.326	0.269	0.237237	0.264588	0.232125	0.263725	0.231961	0.269026
0.325	0.26536	0.244686	0.260946	0.228095	0.260084	0.239411	0.265333
0.323	0.26172	0.254079	0.257304	0.223013	0.256442	0.248804	0.261641
0.301	0.25808	0.265416	0.253663	0.21688	0.2528	0.260141	0.257949
0.258	0.2462	0.221841	0.241788	0.233712	0.240926	0.216566	0.246291
0.257	0.24254	0.222005	0.238132	0.231784	0.23727	0.21673	0.242599
0.255	0.23889	0.224112	0.234476	0.228806	0.233614	0.218837	0.238907
0.253	0.23523	0.228163	0.23082	0.224775	0.229958	0.222888	0.235215
0.25	0.23158	0.234157	0.227164	0.219694	0.226302	0.228882	0.231523
0.216	0.22792	0.242094	0.223508	0.21356	0.222646	0.236819	0.227831
0.191	0.21612	0.211926	0.211705	0.223753	0.210843	0.206651	0.216172
0.19	0.21245	0.208691	0.208035	0.221826	0.207173	0.203416	0.21248
0.189	0.20878	0.207399	0.204364	0.218847	0.203502	0.202124	0.208788
0.187	0.20511	0.208051	0.200694	0.214817	0.199832	0.202776	0.205096
0.186	0.20144	0.210646	0.197024	0.209735	0.196161	0.205371	0.201404
0.152	0.19777	0.215184	0.193353	0.203602	0.192491	0.209909	0.197712
0.129	0.15595	0.18133	0.15154	0.183919	0.150678	0.176055	0.155935
0.128	0.15225	0.171297	0.147841	0.181991	0.146978	0.166022	0.152243

0.13	0.14855	0.163207	0.144141	0.179012	0.143279	0.157932	0.148551
0.128	0.14485	0.157061	0.140442	0.174982	0.13958	0.151786	0.144858
0.128	0.14116	0.152858	0.136743	0.1699	0.135881	0.147583	0.141166
0.101	0.13746	0.150598	0.133044	0.163767	0.132181	0.145323	0.137474
0.098	0.09579	0.13638	0.091374	0.117528	0.090512	0.131105	0.095697
0.094	0.09206	0.119549	0.087646	0.1156	0.086784	0.114274	0.092005
0.091	0.08833	0.104661	0.083918	0.112621	0.083056	0.099386	0.088313
0.088	0.0846	0.091717	0.08019	0.108591	0.079328	0.086442	0.084621
0.083	0.08087	0.080715	0.076462	0.103509	0.0756	0.07544	0.080929
0.061	0.07715	0.071658	0.072734	0.097376	0.071872	0.066383	0.077237
0.051	0.03562	0.077076	0.031209	0.02458	0.030347	0.071801	0.03546
0.05	0.03186	0.053447	0.027452	0.022653	0.02659	0.048172	0.031768
0.05	0.02811	0.031761	0.023695	0.019674	0.022833	0.026486	0.028076
0.049	0.02435	0.012018	0.019938	0.015644	0.019076	0.006743	0.024383
0.043	0.02059	-0.00578	0.016181	0.010562	0.015319	-0.01106	0.020691
0.017	0.01684	-0.02164	0.012425	0.004429	0.011562	-0.02691	0.016999
0.418	0.32461	0.276489	0.320193	0.285353	0.324323	0.276207	0.324731
0.415	0.32096	0.280052	0.316551	0.283426	0.320682	0.27977	0.321039
0.415	0.31732	0.285558	0.312909	0.280447	0.31704	0.285276	0.317347
0.416	0.31368	0.293008	0.309268	0.276416	0.313398	0.292726	0.313655
0.417	0.31004	0.302401	0.305626	0.271335	0.309757	0.302119	0.309963
0.4	0.3064	0.313737	0.301984	0.265202	0.306115	0.313455	0.306271
0.279	0.29452	0.270163	0.29011	0.282034	0.294241	0.269881	0.294613
0.275	0.29087	0.270327	0.286454	0.280106	0.290584	0.270044	0.290921
0.273	0.28721	0.272434	0.282798	0.277127	0.286928	0.272152	0.287229
0.27	0.28355	0.276484	0.279142	0.273097	0.283272	0.276202	0.283536
0.271	0.2799	0.282478	0.275486	0.268015	0.279616	0.282196	0.279844
0.239	0.27624	0.290416	0.27183	0.261882	0.27596	0.290134	0.276152
0.211	0.26444	0.260248	0.260027	0.272075	0.264158	0.259966	0.264494
0.212	0.26077	0.257013	0.256357	0.270148	0.260487	0.25673	0.260802
0.213	0.2571	0.255721	0.252686	0.267169	0.256817	0.255439	0.25711
0.21	0.25343	0.256372	0.249016	0.263138	0.253146	0.25609	0.253418
0.21	0.24976	0.258967	0.245345	0.258057	0.249476	0.258685	0.249726
0.165	0.24609	0.263506	0.241675	0.251924	0.245805	0.263224	0.246034
0.133	0.20427	0.229652	0.199862	0.23224	0.203992	0.22937	0.204256
0.13	0.20058	0.219619	0.196162	0.230313	0.200293	0.219337	0.200564
0.135	0.19688	0.211529	0.192463	0.227334	0.196594	0.211247	0.196872
0.131	0.19318	0.205383	0.188764	0.223304	0.192894	0.2051	0.19318
0.129	0.18948	0.201179	0.185065	0.218222	0.189195	0.200897	0.189488
0.102	0.18578	0.19892	0.181365	0.212089	0.185496	0.198638	0.185796
0.095	0.14411	0.184702	0.139696	0.16585	0.143827	0.18442	0.144019
0.091	0.14038	0.167871	0.135968	0.163922	0.140099	0.167589	0.140327
0.09	0.13665	0.152983	0.13224	0.160943	0.136371	0.152701	0.136635
0.089	0.13292	0.140038	0.128512	0.156913	0.132643	0.139756	0.132943
0.088	0.1292	0.129037	0.124784	0.151831	0.128914	0.128755	0.129251
0.053	0.12547	0.119979	0.121056	0.145698	0.125186	0.119697	0.125559
0.058	0.08394	0.125398	0.079531	0.072902	0.083661	0.125116	0.083781
0.055	0.08019	0.101768	0.075774	0.070975	0.079904	0.101486	0.080089

0.053	0.07643	0.080082	0.072017	0.067996	0.076147	0.0798	0.076397
0.049	0.07267	0.06034	0.06826	0.063965	0.072391	0.060058	0.072705
0.05	0.06892	0.042541	0.064503	0.058884	0.068634	0.042258	0.069013
0.018	0.06516	0.026685	0.060746	0.052751	0.064877	0.026403	0.065321
0.236	0.29653	0.248417	0.294062	0.257281	0.30209	0.253974	0.296659
0.234	0.29289	0.25198	0.290421	0.255354	0.298449	0.257537	0.292967
0.232	0.28925	0.257486	0.286779	0.252375	0.294807	0.263043	0.289275
0.235	0.28561	0.264936	0.283137	0.248344	0.291165	0.270493	0.285583
0.231	0.28197	0.274329	0.279496	0.243263	0.287524	0.279886	0.281891
0.228	0.27832	0.285665	0.275854	0.23713	0.283882	0.291222	0.278199
0.218	0.26645	0.242091	0.26398	0.253961	0.272008	0.247648	0.26654
0.217	0.26279	0.242254	0.260324	0.252034	0.268352	0.247812	0.262848
0.219	0.25914	0.244362	0.256667	0.249055	0.264695	0.249919	0.259156
0.221	0.25548	0.248412	0.253011	0.245025	0.261039	0.253969	0.255464
0.217	0.25183	0.254406	0.249355	0.239943	0.257383	0.259963	0.251772
0.199	0.24817	0.262344	0.245699	0.23381	0.253727	0.267901	0.24808
0.207	0.23637	0.232176	0.233897	0.244003	0.241925	0.237733	0.236422
0.208	0.2327	0.22894	0.230226	0.242075	0.238254	0.234498	0.23273
0.211	0.22903	0.227649	0.226556	0.239096	0.234584	0.233206	0.229038
0.205	0.22536	0.2283	0.222885	0.235066	0.230913	0.233857	0.225346
0.206	0.22169	0.230895	0.219215	0.229984	0.227243	0.236452	0.221653
0.178	0.21802	0.235434	0.215545	0.223851	0.223573	0.240991	0.217961
0.161	0.1762	0.20158	0.173731	0.204168	0.181759	0.207137	0.176184
0.159	0.1725	0.191547	0.170032	0.202241	0.17806	0.197104	0.172492
0.161	0.1688	0.183457	0.166333	0.199262	0.174361	0.189014	0.1688
0.158	0.1651	0.17731	0.162634	0.195232	0.170662	0.182868	0.165108
0.158	0.16141	0.173107	0.158934	0.19015	0.166962	0.178664	0.161416
0.132	0.15771	0.170848	0.155235	0.184017	0.163263	0.176405	0.157724
0.126	0.11604	0.15663	0.113566	0.137777	0.121594	0.162187	0.115947
0.127	0.11231	0.139799	0.109838	0.13585	0.117866	0.145356	0.112255
0.129	0.10858	0.124911	0.10611	0.132871	0.114138	0.130468	0.108563
0.131	0.10485	0.111966	0.102382	0.128841	0.11041	0.117523	0.10487
0.125	0.10112	0.100965	0.098654	0.123759	0.106682	0.106522	0.101178
0.098	0.0974	0.091907	0.094926	0.117626	0.102954	0.097464	0.097486
0.095	0.05587	0.097326	0.0534	0.04483	0.061428	0.102883	0.055709
0.096	0.05211	0.073696	0.049643	0.042902	0.057671	0.079253	0.052017
0.097	0.04836	0.05201	0.045887	0.039924	0.053915	0.057567	0.048325
0.095	0.0446	0.032268	0.04213	0.035893	0.050158	0.037825	0.044633
0.091	0.04084	0.014468	0.038373	0.030812	0.046401	0.020026	0.040941
0.052	0.03709	-0.00139	0.034616	0.024679	0.042644	0.00417	0.037249
0.349	0.32069	0.272578	0.318223	0.281442	0.315419	0.267303	0.32082
0.349	0.31705	0.276141	0.314582	0.279514	0.311777	0.270866	0.317128
0.351	0.31341	0.281647	0.31094	0.276535	0.308136	0.276372	0.313436
0.348	0.30977	0.289097	0.307298	0.272505	0.304494	0.283822	0.309744
0.349	0.30613	0.29849	0.303657	0.267423	0.300852	0.293215	0.306052
0.335	0.30249	0.309826	0.300015	0.26129	0.297211	0.304551	0.30236
0.301	0.29061	0.266251	0.28814	0.278122	0.285336	0.260976	0.290701
0.302	0.28696	0.266415	0.284484	0.276195	0.28168	0.26114	0.287009

0.299	0.2833	0.268522	0.280828	0.273216	0.278024	0.263247	0.283317
0.301	0.27964	0.272573	0.277172	0.269186	0.274368	0.267298	0.279625
0.3	0.27599	0.278567	0.273516	0.264104	0.270712	0.273292	0.275933
0.275	0.27233	0.286505	0.26986	0.257971	0.267056	0.28123	0.272241
0.251	0.26053	0.256336	0.258058	0.268164	0.255254	0.251061	0.260583
0.251	0.25686	0.253101	0.254387	0.266236	0.251583	0.247826	0.25689
0.252	0.25319	0.251809	0.250717	0.263257	0.247913	0.246534	0.253198
0.249	0.24952	0.252461	0.247046	0.259227	0.244242	0.247186	0.249506
0.251	0.24585	0.255056	0.243376	0.254145	0.240572	0.249781	0.245814
0.231	0.24218	0.259594	0.239705	0.248012	0.236901	0.254319	0.242122
0.186	0.20036	0.225741	0.197892	0.228329	0.195088	0.220466	0.200345
0.187	0.19666	0.215708	0.194193	0.226402	0.191389	0.210433	0.196653
0.186	0.19296	0.207618	0.190494	0.223423	0.187689	0.202343	0.192961
0.186	0.18927	0.201471	0.186794	0.219392	0.18399	0.196196	0.189269
0.187	0.18557	0.197268	0.183095	0.214311	0.180291	0.191993	0.185577
0.151	0.18187	0.195008	0.179396	0.208178	0.176592	0.189733	0.181885
0.132	0.1402	0.180791	0.137727	0.161938	0.134922	0.175516	0.140108
0.133	0.13647	0.16396	0.133999	0.160011	0.131194	0.158684	0.136415
0.133	0.13274	0.149072	0.130271	0.157032	0.127466	0.143797	0.132723
0.133	0.12901	0.136127	0.126543	0.153001	0.123738	0.130852	0.129031
0.134	0.12529	0.125126	0.122814	0.14792	0.12001	0.119851	0.125339
0.108	0.12156	0.116068	0.119086	0.141787	0.116282	0.110793	0.121647
0.103	0.08003	0.121487	0.077561	0.068991	0.074757	0.116212	0.07987
0.105	0.07628	0.097857	0.073804	0.067063	0.071	0.092582	0.076178
0.101	0.07252	0.076171	0.070047	0.064084	0.067243	0.070896	0.072486
0.098	0.06876	0.056428	0.066291	0.060054	0.063486	0.051153	0.068794
0.099	0.065	0.038629	0.062534	0.054972	0.05973	0.033354	0.065102
0.071	0.06125	0.022773	0.058777	0.048839	0.055973	0.017498	0.06141
0.427	0.36902	0.320899	0.366545	0.329764	0.368734	0.320617	0.369142
0.428	0.36537	0.324462	0.362903	0.327836	0.365092	0.32418	0.36545
0.425	0.36173	0.329969	0.359262	0.324857	0.36145	0.329686	0.361758
0.427	0.35809	0.337418	0.35562	0.320827	0.357809	0.337136	0.358066
0.427	0.35445	0.346811	0.351978	0.315745	0.354167	0.346529	0.354374
0.412	0.35081	0.358148	0.348337	0.309612	0.350525	0.357866	0.350681
0.392	0.33893	0.314573	0.336462	0.326444	0.338651	0.314291	0.339023
0.393	0.33528	0.314737	0.332806	0.324517	0.334995	0.314455	0.335331
0.393	0.33162	0.316844	0.32915	0.321538	0.331339	0.316562	0.331639
0.388	0.32796	0.320895	0.325494	0.317507	0.327683	0.320613	0.327947
0.387	0.32431	0.326889	0.321838	0.312426	0.324027	0.326607	0.324255
0.369	0.32065	0.334826	0.318182	0.306293	0.320371	0.334544	0.320563
0.322	0.30885	0.304658	0.306379	0.316485	0.308568	0.304376	0.308904
0.321	0.30518	0.301423	0.302709	0.314558	0.304898	0.301141	0.305212
0.325	0.30151	0.300131	0.299038	0.311579	0.301227	0.299849	0.30152
0.318	0.29784	0.300783	0.295368	0.307549	0.297557	0.300501	0.297828
0.317	0.29417	0.303378	0.291698	0.302467	0.293886	0.303096	0.294136
0.289	0.2905	0.307916	0.288027	0.296334	0.290216	0.307634	0.290444
0.191	0.24868	0.274063	0.246214	0.276651	0.248403	0.27378	0.248667
0.192	0.24499	0.264029	0.242515	0.274723	0.244703	0.263747	0.244975

0.188	0.24129	0.255939	0.238815	0.271744	0.241004	0.255657	0.241283
0.189	0.23759	0.249793	0.235116	0.267714	0.237305	0.249511	0.237591
0.191	0.23389	0.24559	0.231417	0.262632	0.233606	0.245308	0.233898
0.151	0.23019	0.24333	0.227718	0.256499	0.229906	0.243048	0.230206
0.139	0.18852	0.229113	0.186048	0.21026	0.188237	0.22883	0.188429
0.141	0.18479	0.212281	0.18232	0.208332	0.184509	0.211999	0.184737
0.14	0.18106	0.197393	0.178592	0.205353	0.180781	0.197111	0.181045
0.138	0.17734	0.184449	0.174864	0.201323	0.177053	0.184167	0.177353
0.141	0.17361	0.173448	0.171136	0.196241	0.173325	0.173165	0.173661
0.116	0.16988	0.16439	0.167408	0.190108	0.169597	0.164108	0.169969
0.089	0.12835	0.169808	0.125883	0.117313	0.128072	0.169526	0.128192
0.091	0.1246	0.146179	0.122126	0.115385	0.124315	0.145897	0.1245
0.088	0.12084	0.124493	0.118369	0.112406	0.120558	0.124211	0.120808
0.079	0.11708	0.10475	0.114612	0.108376	0.116801	0.104468	0.117116
0.075	0.11333	0.086951	0.110855	0.103294	0.113044	0.086669	0.113423
0.049	0.10957	0.071095	0.107099	0.097161	0.109287	0.070813	0.109731
0.231	0.2709	0.222781	0.278002	0.231645	0.276455	0.228338	0.271023
0.232	0.26726	0.226344	0.27436	0.229718	0.272813	0.231901	0.267331
0.233	0.26361	0.23185	0.270718	0.226739	0.269171	0.237407	0.263639
0.231	0.25997	0.2393	0.267077	0.222708	0.26553	0.244857	0.259947
0.232	0.25633	0.248693	0.263435	0.217627	0.261888	0.25425	0.256255
0.226	0.25269	0.260029	0.259793	0.211494	0.258246	0.265587	0.252563
0.209	0.24081	0.216455	0.247919	0.228326	0.246372	0.222012	0.240905
0.208	0.23716	0.216619	0.244263	0.226398	0.242716	0.222176	0.237213
0.208	0.2335	0.218726	0.240607	0.223419	0.23906	0.224283	0.23352
0.207	0.22985	0.222776	0.236951	0.219389	0.235404	0.228334	0.229828
0.205	0.22619	0.22877	0.233295	0.214307	0.231748	0.234328	0.226136
0.184	0.22253	0.236708	0.229639	0.208174	0.228091	0.242265	0.222444
0.185	0.21073	0.20654	0.217836	0.218367	0.216289	0.212097	0.210786
0.184	0.20706	0.203305	0.214166	0.21644	0.212619	0.208862	0.207094
0.187	0.20339	0.202013	0.210495	0.213461	0.208948	0.20757	0.203402
0.183	0.19972	0.202664	0.206825	0.20943	0.205278	0.208222	0.19971
0.181	0.19605	0.205259	0.203154	0.204349	0.201607	0.210817	0.196018
0.167	0.19238	0.209798	0.199484	0.198216	0.197937	0.215355	0.192326
0.138	0.15057	0.175944	0.157671	0.178532	0.156124	0.181501	0.150548
0.139	0.14687	0.165911	0.153971	0.176605	0.152424	0.171468	0.146856
0.141	0.14317	0.157821	0.150272	0.173626	0.148725	0.163378	0.143164
0.136	0.13947	0.151675	0.146573	0.169596	0.145026	0.157232	0.139472
0.133	0.13577	0.147471	0.142874	0.164514	0.141326	0.153029	0.13578
0.115	0.13207	0.145212	0.139174	0.158381	0.137627	0.150769	0.132088
0.115	0.0904	0.130994	0.097505	0.112142	0.095958	0.136551	0.090311
0.114	0.08667	0.114163	0.093777	0.110214	0.09223	0.11972	0.086619
0.116	0.08294	0.099275	0.090049	0.107235	0.088502	0.104832	0.082927
0.112	0.07922	0.08633	0.086321	0.103205	0.084774	0.091888	0.079235
0.111	0.07549	0.075329	0.082593	0.098123	0.081046	0.080886	0.075543
0.074	0.07176	0.066271	0.078865	0.09199	0.077318	0.071829	0.071851
0.085	0.03024	0.07169	0.03734	0.019194	0.035793	0.077247	0.030073
0.086	0.02648	0.04806	0.033583	0.017267	0.032036	0.053618	0.026381

0.085	0.02272	0.026374	0.029826	0.014288	0.028279	0.031932	0.022689
0.085	0.01896	0.006632	0.026069	0.010257	0.024522	0.012189	0.018997
0.084	0.01521	-0.01117	0.022312	0.005176	0.020765	-0.00561	0.015305
0.054	0.01145	-0.02702	0.018555	-0.00096	0.017008	-0.02147	0.011613
0.331	0.29506	0.246942	0.302163	0.255806	0.289783	0.241667	0.295184
0.329	0.29142	0.250505	0.298521	0.253879	0.286142	0.24523	0.291492
0.328	0.28777	0.256011	0.294879	0.2509	0.2825	0.250736	0.2878
0.327	0.28413	0.263461	0.291238	0.246869	0.278858	0.258186	0.284108
0.325	0.28049	0.272854	0.287596	0.241788	0.275217	0.267579	0.280416
0.316	0.27685	0.28419	0.283954	0.235655	0.271575	0.278915	0.276724
0.275	0.26498	0.240616	0.27208	0.252487	0.2597	0.235341	0.265065
0.274	0.26132	0.240779	0.268424	0.250559	0.256044	0.235504	0.261373
0.273	0.25766	0.242887	0.264768	0.24758	0.252388	0.237612	0.257681
0.271	0.25401	0.246937	0.261112	0.24355	0.248732	0.241662	0.253989
0.269	0.25035	0.252931	0.257456	0.238468	0.245076	0.247656	0.250297
0.241	0.2467	0.260869	0.2538	0.232335	0.24142	0.255594	0.246605
0.236	0.23489	0.230701	0.241997	0.242528	0.229618	0.225426	0.234947
0.237	0.23122	0.227465	0.238327	0.2406	0.225947	0.22219	0.231255
0.235	0.22755	0.226174	0.234656	0.237621	0.222277	0.220899	0.227563
0.234	0.22388	0.226825	0.230986	0.233591	0.218606	0.22155	0.223871
0.231	0.22021	0.22942	0.227315	0.228509	0.214936	0.224145	0.220178
0.215	0.21654	0.233959	0.223645	0.222376	0.211265	0.228684	0.216486
0.171	0.17473	0.200105	0.181832	0.202693	0.169452	0.19483	0.174709
0.171	0.17103	0.190072	0.178132	0.200766	0.165753	0.184797	0.171017
0.169	0.16733	0.181982	0.174433	0.197787	0.162054	0.176707	0.167325
0.171	0.16363	0.175835	0.170734	0.193757	0.158354	0.17056	0.163633
0.17	0.15993	0.171632	0.167035	0.188675	0.154655	0.166357	0.159941
0.148	0.15623	0.169373	0.163335	0.182542	0.150956	0.164098	0.156249
0.122	0.11456	0.155155	0.121666	0.136302	0.109287	0.14988	0.114472
0.122	0.11083	0.138324	0.117938	0.134375	0.105559	0.133049	0.11078
0.123	0.10711	0.123436	0.11421	0.131396	0.101831	0.118161	0.107088
0.122	0.10338	0.110491	0.110482	0.127366	0.098102	0.105216	0.103396
0.124	0.09965	0.09949	0.106754	0.122284	0.094374	0.094215	0.099703
0.103	0.09592	0.090432	0.103026	0.116151	0.090646	0.085157	0.096011
0.085	0.0544	0.095851	0.061501	0.043355	0.049121	0.090576	0.054234
0.084	0.05064	0.072221	0.057744	0.041428	0.045364	0.066946	0.050542
0.085	0.04688	0.050535	0.053987	0.038449	0.041607	0.04526	0.04685
0.084	0.04313	0.030793	0.05023	0.034418	0.037851	0.025518	0.043158
0.079	0.03937	0.012993	0.046473	0.029337	0.034094	0.007718	0.039466
0.051	0.03561	-0.00286	0.042716	0.023204	0.030337	-0.00814	0.035774
0.431	0.34338	0.295264	0.350484	0.304128	0.343098	0.294982	0.343506
0.432	0.33974	0.298827	0.346843	0.3022	0.339456	0.298544	0.339814
0.429	0.3361	0.304333	0.343201	0.299221	0.335814	0.304051	0.336122
0.43	0.33245	0.311782	0.339559	0.295191	0.332173	0.3115	0.33243
0.429	0.32881	0.321176	0.335918	0.290109	0.328531	0.320893	0.328738
0.411	0.32517	0.332512	0.332276	0.283976	0.32489	0.33223	0.325046
0.377	0.3133	0.288937	0.320402	0.300808	0.313015	0.288655	0.313387
0.376	0.30964	0.289101	0.316745	0.298881	0.309359	0.288819	0.309695

0.369	0.30599	0.291208	0.313089	0.295902	0.305703	0.290926	0.306003
0.375	0.30233	0.295259	0.309433	0.291872	0.302047	0.294977	0.302311
0.371	0.29867	0.301253	0.305777	0.28679	0.298391	0.300971	0.298619
0.348	0.29502	0.30919	0.302121	0.280657	0.294735	0.308908	0.294927
0.291	0.28321	0.279022	0.290319	0.29085	0.282932	0.27874	0.283268
0.292	0.27954	0.275787	0.286648	0.288922	0.279262	0.275505	0.279576
0.291	0.27587	0.274495	0.282978	0.285943	0.275591	0.274213	0.275884
0.29	0.2722	0.275147	0.279307	0.281913	0.271921	0.274865	0.272192
0.291	0.26853	0.277742	0.275637	0.276831	0.26825	0.27746	0.2685
0.253	0.26486	0.28228	0.271966	0.270698	0.26458	0.281998	0.264808
0.172	0.22305	0.248427	0.230153	0.251015	0.222767	0.248145	0.223031
0.175	0.21935	0.238393	0.226454	0.249087	0.219068	0.238111	0.219339
0.17	0.21565	0.230304	0.222755	0.246109	0.215368	0.230021	0.215647
0.176	0.21195	0.224157	0.219055	0.242078	0.211669	0.223875	0.211955
0.17	0.20825	0.219954	0.215356	0.236997	0.20797	0.219672	0.208263
0.145	0.20455	0.217694	0.211657	0.230864	0.20427	0.217412	0.204571
0.122	0.16288	0.203477	0.169988	0.184624	0.162601	0.203195	0.162793
0.122	0.15916	0.186645	0.16626	0.182697	0.158873	0.186363	0.159101
0.12	0.15543	0.171757	0.162532	0.179718	0.155145	0.171475	0.155409
0.121	0.1517	0.158813	0.158804	0.175687	0.151417	0.158531	0.151717
0.12	0.14797	0.147812	0.155076	0.170606	0.147689	0.14753	0.148025
0.092	0.14424	0.138754	0.151347	0.164473	0.143961	0.138472	0.144333
0.079	0.10272	0.144172	0.109822	0.091677	0.102436	0.14389	0.102556
0.078	0.09896	0.120543	0.106065	0.089749	0.098679	0.120261	0.098864
0.075	0.0952	0.098857	0.102309	0.08677	0.094922	0.098575	0.095172
0.074	0.09145	0.079114	0.098552	0.08274	0.091165	0.078832	0.09148
0.069	0.08769	0.061315	0.094795	0.077658	0.087408	0.061033	0.087788
0.043	0.08393	0.045459	0.091038	0.071525	0.083651	0.045177	0.084096
0.225	0.25381	0.205691	0.249449	0.214555	0.259364	0.211248	0.253933
0.224	0.25017	0.209253	0.245808	0.212627	0.255722	0.214811	0.250241
0.223	0.24652	0.21476	0.242166	0.209648	0.252081	0.220317	0.246549
0.22	0.24288	0.222209	0.238524	0.205618	0.248439	0.227766	0.242857
0.221	0.23924	0.231602	0.234883	0.200536	0.244797	0.23716	0.239165
0.206	0.2356	0.242939	0.231241	0.194403	0.241156	0.248496	0.235473
0.203	0.22372	0.199364	0.219367	0.211235	0.229281	0.204921	0.223814
0.201	0.22007	0.199528	0.215711	0.209308	0.225625	0.205085	0.220122
0.2	0.21641	0.201635	0.212055	0.206329	0.221969	0.207192	0.21643
0.203	0.21276	0.205686	0.208399	0.202298	0.218313	0.211243	0.212738
0.201	0.2091	0.21168	0.204742	0.197217	0.214657	0.217237	0.209046
0.173	0.20544	0.219617	0.201086	0.191084	0.211001	0.225174	0.205354
0.153	0.19364	0.189449	0.189284	0.201276	0.199198	0.195006	0.193695
0.156	0.18997	0.186214	0.185613	0.199349	0.195528	0.191771	0.190003
0.157	0.1863	0.184922	0.181943	0.19637	0.191858	0.190479	0.186311
0.158	0.18263	0.185574	0.178273	0.19234	0.188187	0.191131	0.182619
0.156	0.17896	0.188169	0.174602	0.187258	0.184517	0.193726	0.178927
0.133	0.17529	0.192707	0.170932	0.181125	0.180846	0.198264	0.175235
0.115	0.13348	0.158854	0.129118	0.161442	0.139033	0.164411	0.133458
0.116	0.12978	0.14882	0.125419	0.159514	0.135334	0.154378	0.129766

0.114	0.12608	0.14073	0.12172	0.156535	0.131634	0.146288	0.126074
0.113	0.12238	0.134584	0.118021	0.152505	0.127935	0.140141	0.122382
0.112	0.11868	0.130381	0.114321	0.147423	0.124236	0.135938	0.11869
0.089	0.11498	0.128121	0.110622	0.14129	0.120537	0.133678	0.114997
0.086	0.07331	0.113904	0.068953	0.095051	0.078867	0.119461	0.07322
0.087	0.06958	0.097072	0.065225	0.093123	0.075139	0.102629	0.069528
0.09	0.06585	0.082184	0.061497	0.090145	0.071411	0.087742	0.065836
0.083	0.06213	0.06924	0.057769	0.086114	0.067683	0.074797	0.062144
0.081	0.0584	0.058239	0.054041	0.081033	0.063955	0.063796	0.058452
0.051	0.05467	0.049181	0.050313	0.074899	0.060227	0.054738	0.05476
0.031	0.01314	0.054599	0.008787	0.002104	0.018702	0.060156	0.012983
0.032	0.00939	0.03097	0.005031	0.000176	0.014945	0.036527	0.009291
0.03	0.00563	0.009284	0.001274	-0.0028	0.011188	0.014841	0.005599
0.03	0.00187	-0.01046	-0.00248	-0.00683	0.007431	-0.0049	0.001907
0.029	-0.00188	-0.02826	-0.00624	-0.01191	0.003674	-0.0227	-0.00179
0.01	-0.00564	-0.04411	-0.01	-0.01805	-8.2E-05	-0.03856	-0.00548
0.329	0.27797	0.229851	0.27361	0.238716	0.272693	0.224576	0.278094
0.33	0.27433	0.233414	0.269969	0.236788	0.269051	0.228139	0.274402
0.33	0.27068	0.238921	0.266327	0.233809	0.265409	0.233645	0.27071
0.325	0.26704	0.24637	0.262685	0.229779	0.261768	0.241095	0.267017
0.324	0.2634	0.255763	0.259044	0.224697	0.258126	0.250488	0.263325
0.303	0.25976	0.2671	0.255402	0.218564	0.254484	0.261825	0.259633
0.269	0.24788	0.223525	0.243528	0.235396	0.24261	0.21825	0.247975
0.268	0.24423	0.223689	0.239871	0.233468	0.238954	0.218414	0.244283
0.265	0.24057	0.225796	0.236215	0.23049	0.235298	0.220521	0.240591
0.263	0.23692	0.229847	0.232559	0.226459	0.231642	0.224572	0.236899
0.26	0.23326	0.235841	0.228903	0.221378	0.227986	0.230566	0.233207
0.221	0.2296	0.243778	0.225247	0.215245	0.22433	0.238503	0.229515
0.201	0.2178	0.21361	0.213445	0.225437	0.212527	0.208335	0.217856
0.201	0.21413	0.210375	0.209774	0.22351	0.208857	0.2051	0.214164
0.2	0.21046	0.209083	0.206104	0.220531	0.205186	0.203808	0.210472
0.2	0.20679	0.209735	0.202433	0.216501	0.201516	0.20446	0.20678
0.199	0.20312	0.21233	0.198763	0.211419	0.197845	0.207055	0.203088
0.161	0.19945	0.216868	0.195092	0.205286	0.194175	0.211593	0.199396
0.141	0.15764	0.183014	0.153279	0.185603	0.152362	0.177739	0.157619
0.139	0.15394	0.172981	0.14958	0.183675	0.148662	0.167706	0.153927
0.14	0.15024	0.164891	0.145881	0.180696	0.144963	0.159616	0.150235
0.14	0.14654	0.158745	0.142182	0.176666	0.141264	0.15347	0.146542
0.139	0.14284	0.154542	0.138482	0.171584	0.137565	0.149267	0.14285
0.115	0.13914	0.152282	0.134783	0.165451	0.133865	0.147007	0.139158
0.095	0.09747	0.138064	0.093114	0.119212	0.092196	0.132789	0.097381
0.094	0.09374	0.121233	0.089386	0.117284	0.088468	0.115958	0.093689
0.093	0.09002	0.106345	0.085658	0.114305	0.08474	0.10107	0.089997
0.091	0.08629	0.093401	0.08193	0.110275	0.081012	0.088126	0.086305
0.09	0.08256	0.0824	0.078202	0.105193	0.077284	0.077124	0.082613
0.061	0.07883	0.073342	0.074473	0.09906	0.073556	0.068067	0.078921
0.059	0.03731	0.07876	0.032948	0.026264	0.032031	0.073485	0.037144
0.06	0.03355	0.055131	0.029191	0.024337	0.028274	0.049856	0.033452

0.055	0.02979	0.033445	0.025435	0.021358	0.024517	0.02817	0.02976
0.053	0.02604	0.013702	0.021678	0.017328	0.02076	0.008427	0.026067
0.051	0.02228	-0.0041	0.017921	0.012246	0.017003	-0.00937	0.022375
0.022	0.01852	-0.01995	0.014164	0.006113	0.013246	-0.02523	0.018683
0.416	0.32629	0.278173	0.321932	0.287037	0.326007	0.277891	0.326415
0.417	0.32265	0.281736	0.31829	0.28511	0.322366	0.281454	0.322723
0.415	0.31901	0.287242	0.314649	0.282131	0.318724	0.28696	0.319031
0.41	0.31536	0.294692	0.311007	0.278101	0.315082	0.29441	0.315339
0.41	0.31172	0.304085	0.307365	0.273019	0.311441	0.303803	0.311647
0.398	0.30808	0.315421	0.303724	0.266886	0.307799	0.315139	0.307955
0.322	0.29621	0.271847	0.291849	0.283718	0.295925	0.271565	0.296297
0.323	0.29255	0.272011	0.288193	0.28179	0.292268	0.271728	0.292605
0.321	0.28889	0.274118	0.284537	0.278811	0.288612	0.273836	0.288913
0.32	0.28524	0.278168	0.280881	0.274781	0.284956	0.277886	0.28522
0.32	0.28158	0.284162	0.277225	0.269699	0.2813	0.28388	0.281528
0.289	0.27793	0.2921	0.273569	0.263566	0.277644	0.291818	0.277836
0.251	0.26612	0.261932	0.261767	0.273759	0.265842	0.26165	0.266178
0.252	0.26245	0.258697	0.258096	0.271832	0.262171	0.258414	0.262486
0.253	0.25878	0.257405	0.254426	0.268853	0.258501	0.257123	0.258794
0.249	0.25511	0.258056	0.250755	0.264822	0.25483	0.257774	0.255102
0.25	0.25144	0.260651	0.247085	0.259741	0.25116	0.260369	0.25141
0.191	0.24777	0.26519	0.243414	0.253608	0.247489	0.264908	0.247718
0.161	0.20596	0.231336	0.201601	0.233924	0.205676	0.231054	0.20594
0.159	0.20226	0.221303	0.197902	0.231997	0.201977	0.221021	0.202248
0.16	0.19856	0.213213	0.194202	0.229018	0.198278	0.212931	0.198556
0.159	0.19486	0.207067	0.190503	0.224988	0.194578	0.206784	0.194864
0.159	0.19116	0.202863	0.186804	0.219906	0.190879	0.202581	0.191172
0.133	0.18746	0.200604	0.183105	0.213773	0.18718	0.200322	0.18748
0.101	0.14579	0.186386	0.141435	0.167534	0.145511	0.186104	0.145703
0.101	0.14206	0.169555	0.137707	0.165606	0.141783	0.169273	0.142011
0.1	0.13834	0.154667	0.133979	0.162627	0.138055	0.154385	0.138319
0.099	0.13461	0.141722	0.130251	0.158597	0.134327	0.14144	0.134627
0.098	0.13088	0.130721	0.126523	0.153515	0.130598	0.130439	0.130935
0.066	0.12715	0.121663	0.122795	0.147382	0.12687	0.121381	0.127243
0.054	0.08563	0.127082	0.08127	0.074586	0.085345	0.1268	0.085465
0.055	0.08187	0.103452	0.077513	0.072659	0.081588	0.10317	0.081773
0.053	0.07811	0.081766	0.073756	0.06968	0.077832	0.081484	0.078081
0.05	0.07436	0.062024	0.069999	0.065649	0.074075	0.061742	0.074389
0.048	0.0706	0.044225	0.066243	0.060568	0.070318	0.043942	0.070697
0.016	0.06684	0.028369	0.062486	0.054435	0.066561	0.028087	0.067005
0.251	0.29548	0.247361	0.292972	0.256225	0.301034	0.252918	0.295603
0.249	0.29184	0.250924	0.28933	0.254297	0.297393	0.256481	0.291911
0.25	0.28819	0.25643	0.285688	0.251319	0.293751	0.261987	0.288219
0.249	0.28455	0.26388	0.282047	0.247288	0.290109	0.269437	0.284527
0.248	0.28091	0.273273	0.278405	0.242207	0.286468	0.27883	0.280835
0.239	0.27727	0.284609	0.274763	0.236073	0.282826	0.290166	0.277143
0.231	0.26539	0.241034	0.262889	0.252905	0.270952	0.246592	0.265484
0.232	0.26174	0.241198	0.259233	0.250978	0.267295	0.246755	0.261792

0.231	0.25808	0.243306	0.255577	0.247999	0.263639	0.248863	0.2581
0.23	0.25443	0.247356	0.251921	0.243969	0.259983	0.252913	0.254408
0.229	0.25077	0.25335	0.248265	0.238887	0.256327	0.258907	0.250716
0.211	0.24711	0.261288	0.244608	0.232754	0.252671	0.266845	0.247024
0.208	0.23531	0.23112	0.232806	0.242947	0.240869	0.236677	0.235366
0.208	0.23164	0.227884	0.229136	0.241019	0.237198	0.233442	0.231674
0.209	0.22797	0.226593	0.225465	0.23804	0.233528	0.23215	0.227981
0.205	0.2243	0.227244	0.221795	0.23401	0.229857	0.232801	0.224289
0.204	0.22063	0.229839	0.218124	0.228928	0.226187	0.235396	0.220597
0.188	0.21696	0.234378	0.214454	0.222795	0.222516	0.239935	0.216905
0.168	0.17515	0.200524	0.172641	0.203112	0.180703	0.206081	0.175128
0.167	0.17145	0.190491	0.168941	0.201185	0.177004	0.196048	0.171436
0.167	0.16775	0.182401	0.165242	0.198206	0.173305	0.187958	0.167744
0.166	0.16405	0.176254	0.161543	0.194175	0.169605	0.181811	0.164052
0.165	0.16035	0.172051	0.157843	0.189094	0.165906	0.177608	0.16036
0.155	0.15665	0.169792	0.154144	0.182961	0.162207	0.175349	0.156668
0.136	0.11498	0.155574	0.112475	0.136721	0.120538	0.161131	0.114891
0.136	0.11125	0.138743	0.108747	0.134794	0.11681	0.1443	0.111199
0.135	0.10752	0.123855	0.105019	0.131815	0.113082	0.129412	0.107506
0.135	0.1038	0.11091	0.101291	0.127785	0.109354	0.116467	0.103814
0.133	0.10007	0.099909	0.097563	0.122703	0.105625	0.105466	0.100122
0.122	0.09634	0.090851	0.093835	0.11657	0.101897	0.096408	0.09643
0.099	0.05482	0.09627	0.05231	0.043774	0.060372	0.101827	0.054653
0.098	0.05106	0.07264	0.048553	0.041846	0.056615	0.078197	0.050961
0.098	0.0473	0.050954	0.044796	0.038867	0.052859	0.056511	0.047269
0.097	0.04354	0.031212	0.041039	0.034837	0.049102	0.036769	0.043577
0.095	0.03979	0.013412	0.037282	0.029756	0.045345	0.018969	0.039885
0.076	0.03603	-0.00244	0.033525	0.023622	0.041588	0.003114	0.036193
0.336	0.31964	0.271522	0.317132	0.280386	0.314363	0.266247	0.319764
0.337	0.316	0.275085	0.313491	0.278458	0.310721	0.26981	0.316072
0.335	0.31235	0.280591	0.309849	0.275479	0.30708	0.275316	0.31238
0.339	0.30871	0.28804	0.306207	0.271449	0.303438	0.282765	0.308688
0.335	0.30507	0.297434	0.302566	0.266367	0.299796	0.292159	0.304996
0.322	0.30143	0.30877	0.298924	0.260234	0.296155	0.303495	0.301304
0.301	0.28956	0.265195	0.28705	0.277066	0.28428	0.25992	0.289645
0.302	0.2859	0.265359	0.283394	0.275139	0.280624	0.260084	0.285953
0.301	0.28224	0.267466	0.279738	0.27216	0.276968	0.262191	0.282261
0.3	0.27859	0.271517	0.276081	0.26813	0.273312	0.266242	0.278569
0.3	0.27493	0.277511	0.272425	0.263048	0.269656	0.272236	0.274877
0.284	0.27127	0.285448	0.268769	0.256915	0.266	0.280173	0.271185
0.275	0.25947	0.25528	0.256967	0.267108	0.254197	0.250005	0.259526
0.274	0.2558	0.252045	0.253296	0.26518	0.250527	0.24677	0.255834
0.274	0.25213	0.250753	0.249626	0.262201	0.246857	0.245478	0.252142
0.275	0.24846	0.251405	0.245956	0.258171	0.243186	0.24613	0.24845
0.276	0.24479	0.254	0.242285	0.253089	0.239516	0.248725	0.244758
0.251	0.24112	0.258538	0.238615	0.246956	0.235845	0.253263	0.241066
0.223	0.19931	0.224685	0.196801	0.227273	0.194032	0.21941	0.199289
0.221	0.19561	0.214652	0.193102	0.225346	0.190333	0.209376	0.195597

0.219	0.19191	0.206562	0.189403	0.222367	0.186633	0.201287	0.191905
0.218	0.18821	0.200415	0.185704	0.218336	0.182934	0.19514	0.188213
0.218	0.18451	0.196212	0.182004	0.213255	0.179235	0.190937	0.184521
0.198	0.18081	0.193952	0.178305	0.207122	0.175536	0.188677	0.180829
0.148	0.13914	0.179735	0.136636	0.160882	0.133866	0.17446	0.139051
0.147	0.13541	0.162903	0.132908	0.158955	0.130138	0.157628	0.135359
0.146	0.13169	0.148016	0.12918	0.155976	0.12641	0.14274	0.131667
0.144	0.12796	0.135071	0.125452	0.151945	0.122682	0.129796	0.127975
0.145	0.12423	0.12407	0.121724	0.146864	0.118954	0.118795	0.124283
0.132	0.1205	0.115012	0.117996	0.140731	0.115226	0.109737	0.120591
0.109	0.07898	0.12043	0.07647	0.067935	0.073701	0.115155	0.078814
0.108	0.07522	0.096801	0.072714	0.066007	0.069944	0.091526	0.075122
0.108	0.07146	0.075115	0.068957	0.063028	0.066187	0.06984	0.07143
0.105	0.06771	0.055372	0.0652	0.058998	0.06243	0.050097	0.067738
0.105	0.06395	0.037573	0.061443	0.053916	0.058673	0.032298	0.064046
0.086	0.06019	0.021717	0.057686	0.047783	0.054917	0.016442	0.060354
0.441	0.36796	0.319843	0.365454	0.328708	0.367678	0.319561	0.368086
0.439	0.36432	0.323406	0.361812	0.32678	0.364036	0.323124	0.364394
0.438	0.36068	0.328913	0.358171	0.323801	0.360394	0.32863	0.360702
0.436	0.35703	0.336362	0.354529	0.319771	0.356753	0.33608	0.35701
0.431	0.35339	0.345755	0.350887	0.314689	0.353111	0.345473	0.353317
0.396	0.34975	0.357092	0.347246	0.308556	0.349469	0.35681	0.349625
0.389	0.33788	0.313517	0.335371	0.325388	0.337595	0.313235	0.337967
0.385	0.33422	0.313681	0.331715	0.32346	0.333939	0.313399	0.334275
0.383	0.33056	0.315788	0.328059	0.320482	0.330283	0.315506	0.330583
0.382	0.32691	0.319839	0.324403	0.316451	0.326627	0.319557	0.326891
0.372	0.32325	0.325833	0.320747	0.31137	0.322971	0.325551	0.323199
0.341	0.3196	0.33377	0.317091	0.305237	0.319314	0.333488	0.319507
0.33	0.30779	0.303602	0.305289	0.315429	0.307512	0.30332	0.307848
0.33	0.30412	0.300367	0.301618	0.313502	0.303842	0.300085	0.304156
0.329	0.30045	0.299075	0.297948	0.310523	0.300171	0.298793	0.300464
0.328	0.29678	0.299727	0.294277	0.306493	0.296501	0.299445	0.296772
0.321	0.29311	0.302322	0.290607	0.301411	0.29283	0.30204	0.29308
0.287	0.28944	0.30686	0.286936	0.295278	0.28916	0.306578	0.289388
0.211	0.24763	0.273006	0.245123	0.275595	0.247347	0.272724	0.247611
0.212	0.24393	0.262973	0.241424	0.273667	0.243647	0.262691	0.243919
0.213	0.24023	0.254883	0.237725	0.270688	0.239948	0.254601	0.240227
0.214	0.23653	0.248737	0.234025	0.266658	0.236249	0.248455	0.236534
0.215	0.23283	0.244534	0.230326	0.261576	0.232549	0.244252	0.232842
0.19	0.22913	0.242274	0.226627	0.255443	0.22885	0.241992	0.22915
0.148	0.18746	0.228056	0.184958	0.209204	0.187181	0.227774	0.187373
0.149	0.18374	0.211225	0.18123	0.207276	0.183453	0.210943	0.183681
0.149	0.18001	0.196337	0.177501	0.204297	0.179725	0.196055	0.179989
0.15	0.17628	0.183393	0.173773	0.200267	0.175997	0.183111	0.176297
0.15	0.17255	0.172392	0.170045	0.195185	0.172269	0.172109	0.172605
0.141	0.16882	0.163334	0.166317	0.189052	0.168541	0.163052	0.168913
0.112	0.1273	0.168752	0.124792	0.116256	0.127016	0.16847	0.127136
0.111	0.12354	0.145123	0.121035	0.114329	0.123259	0.144841	0.123444

0.11	0.11978	0.123437	0.117278	0.11135	0.119502	0.123155	0.119752
0.11	0.11603	0.103694	0.113521	0.10732	0.115745	0.103412	0.116059
0.109	0.11227	0.085895	0.109765	0.102238	0.111988	0.085613	0.112367
0.097	0.10851	0.070039	0.106008	0.096105	0.108231	0.069757	0.108675
0.239	0.26984	0.221725	0.276911	0.230589	0.275398	0.227282	0.269967
0.24	0.2662	0.225288	0.273269	0.228662	0.271757	0.230845	0.266275
0.238	0.26256	0.230794	0.269628	0.225683	0.268115	0.236351	0.262583
0.237	0.25892	0.238244	0.265986	0.221652	0.264473	0.243801	0.258891
0.235	0.25527	0.247637	0.262344	0.216571	0.260832	0.253194	0.255199
0.224	0.25163	0.258973	0.258703	0.210438	0.25719	0.26453	0.251507
0.214	0.23976	0.215399	0.246828	0.22727	0.245316	0.220956	0.239849
0.211	0.2361	0.215562	0.243172	0.225342	0.24166	0.22112	0.236156
0.21	0.23245	0.21767	0.239516	0.222363	0.238004	0.223227	0.232464
0.209	0.22879	0.22172	0.23586	0.218333	0.234348	0.227278	0.228772
0.205	0.22513	0.227714	0.232204	0.213251	0.230691	0.233272	0.22508
0.186	0.22148	0.235652	0.228548	0.207118	0.227035	0.241209	0.221388
0.191	0.20968	0.205484	0.216745	0.217311	0.215233	0.211041	0.20973
0.19	0.20601	0.202249	0.213075	0.215383	0.211562	0.207806	0.206038
0.189	0.20233	0.200957	0.209404	0.212405	0.207892	0.206514	0.202346
0.185	0.19866	0.201608	0.205734	0.208374	0.204222	0.207165	0.198654
0.179	0.19499	0.204203	0.202064	0.203293	0.200551	0.20976	0.194962
0.162	0.19132	0.208742	0.198393	0.197159	0.196881	0.214299	0.191269
0.154	0.14951	0.174888	0.15658	0.177476	0.155067	0.180445	0.149492
0.153	0.14581	0.164855	0.152881	0.175549	0.151368	0.170412	0.1458
0.151	0.14211	0.156765	0.149181	0.17257	0.147669	0.162322	0.142108
0.15	0.13841	0.150618	0.145482	0.16854	0.14397	0.156176	0.138416
0.152	0.13471	0.146415	0.141783	0.163458	0.14027	0.151973	0.134724
0.139	0.13101	0.144156	0.138084	0.157325	0.136571	0.149713	0.131032
0.119	0.08934	0.129938	0.096414	0.111085	0.094902	0.135495	0.089255
0.118	0.08562	0.113107	0.092686	0.109158	0.091174	0.118664	0.085563
0.118	0.08189	0.098219	0.088958	0.106179	0.087446	0.103776	0.081871
0.115	0.07816	0.085274	0.08523	0.102149	0.083718	0.090831	0.078179
0.114	0.07443	0.074273	0.081502	0.097067	0.07999	0.07983	0.074487
0.097	0.0707	0.065215	0.077774	0.090934	0.076262	0.070773	0.070794
0.085	0.02918	0.070634	0.036249	0.018138	0.034736	0.076191	0.029017
0.084	0.02542	0.047004	0.032492	0.016211	0.03098	0.052562	0.025325
0.083	0.02167	0.025318	0.028735	0.013232	0.027223	0.030876	0.021633
0.08	0.01791	0.005576	0.024978	0.009201	0.023466	0.011133	0.017941
0.08	0.01415	-0.01222	0.021221	0.00412	0.019709	-0.00667	0.014249
0.06	0.01039	-0.02808	0.017465	-0.00201	0.015952	-0.02252	0.010557
0.329	0.294	0.245886	0.301072	0.25475	0.288727	0.240611	0.294128
0.33	0.29036	0.249449	0.29743	0.252822	0.285085	0.244174	0.290436
0.328	0.28672	0.254955	0.293788	0.249844	0.281444	0.24968	0.286744
0.325	0.28308	0.262405	0.290147	0.245813	0.277802	0.25713	0.283052
0.323	0.27944	0.271798	0.286505	0.240732	0.27416	0.266523	0.27936
0.308	0.27579	0.283134	0.282863	0.234599	0.270519	0.277859	0.275668
0.281	0.26392	0.239559	0.270989	0.25143	0.258644	0.234284	0.264009
0.282	0.26026	0.239723	0.267333	0.249503	0.254988	0.234448	0.260317

0.282	0.25661	0.241831	0.263677	0.246524	0.251332	0.236556	0.256625
0.28	0.25295	0.245881	0.260021	0.242494	0.247676	0.240606	0.252933
0.279	0.2493	0.251875	0.256365	0.237412	0.24402	0.2466	0.249241
0.254	0.24564	0.259813	0.252709	0.231279	0.240364	0.254538	0.245549
0.233	0.23384	0.229645	0.240906	0.241472	0.228562	0.22437	0.233891
0.233	0.23017	0.226409	0.237236	0.239544	0.224891	0.221134	0.230199
0.231	0.2265	0.225118	0.233565	0.236565	0.221221	0.219843	0.226507
0.23	0.22283	0.225769	0.229895	0.232535	0.21755	0.220494	0.222814
0.229	0.21915	0.228364	0.226224	0.227453	0.21388	0.223089	0.219122
0.194	0.21548	0.232903	0.222554	0.22132	0.210209	0.227627	0.21543
0.182	0.17367	0.199049	0.180741	0.201637	0.168396	0.193774	0.173653
0.181	0.16997	0.189016	0.177041	0.19971	0.164697	0.183741	0.169961
0.18	0.16627	0.180926	0.173342	0.196731	0.160998	0.175651	0.166269
0.18	0.16257	0.174779	0.169643	0.1927	0.157298	0.169504	0.162577
0.181	0.15887	0.170576	0.165944	0.187619	0.153599	0.165301	0.158885
0.155	0.15517	0.168317	0.162244	0.181486	0.1499	0.163042	0.155193
0.132	0.11351	0.154099	0.120575	0.135246	0.108231	0.148824	0.113416
0.131	0.10978	0.137268	0.116847	0.133319	0.104503	0.131993	0.109724
0.131	0.10605	0.12238	0.113119	0.13034	0.100774	0.117105	0.106031
0.13	0.10232	0.109435	0.109391	0.12631	0.097046	0.10416	0.102339
0.13	0.09859	0.098434	0.105663	0.121228	0.093318	0.093159	0.098647
0.114	0.09487	0.089376	0.101935	0.115095	0.08959	0.084101	0.094955
0.089	0.05334	0.094795	0.06041	0.042299	0.048065	0.08952	0.053178
0.088	0.04958	0.071165	0.056653	0.040371	0.044308	0.06589	0.049486
0.088	0.04583	0.049479	0.052896	0.037393	0.040551	0.044204	0.045794
0.085	0.04207	0.029737	0.049139	0.033362	0.036794	0.024462	0.042102
0.083	0.03831	0.011937	0.045382	0.028281	0.033038	0.006662	0.03841
0.061	0.03456	-0.00392	0.041625	0.022147	0.029281	-0.00919	0.034718
0.435	0.34232	0.294208	0.349393	0.303072	0.342042	0.293925	0.34245
0.433	0.33868	0.29777	0.345752	0.301144	0.3384	0.297488	0.338758
0.432	0.33504	0.303277	0.34211	0.298165	0.334758	0.302995	0.335066
0.432	0.3314	0.310726	0.338468	0.294135	0.331117	0.310444	0.331374
0.429	0.32776	0.320119	0.334827	0.289053	0.327475	0.319837	0.327682
0.411	0.32412	0.331456	0.331185	0.28292	0.323833	0.331174	0.32399
0.356	0.31224	0.287881	0.319311	0.299752	0.311959	0.287599	0.312331
0.357	0.30859	0.288045	0.315655	0.297825	0.308303	0.287763	0.308639
0.355	0.30493	0.290152	0.311999	0.294846	0.304647	0.28987	0.304947
0.351	0.30127	0.294203	0.308343	0.290815	0.300991	0.293921	0.301255
0.35	0.29762	0.300197	0.304686	0.285734	0.297335	0.299915	0.297563
0.329	0.29396	0.308134	0.30103	0.279601	0.293679	0.307852	0.293871
0.281	0.28216	0.277966	0.289228	0.289794	0.281876	0.277684	0.282212
0.282	0.27849	0.274731	0.285558	0.287866	0.278206	0.274449	0.27852
0.282	0.27482	0.273439	0.281887	0.284887	0.274535	0.273157	0.274828
0.28	0.27115	0.274091	0.278217	0.280857	0.270865	0.273809	0.271136
0.281	0.26748	0.276686	0.274546	0.275775	0.267194	0.276404	0.267444
0.266	0.26381	0.281224	0.270876	0.269642	0.263524	0.280942	0.263752
0.182	0.22199	0.247371	0.229062	0.249959	0.221711	0.247089	0.221975
0.181	0.21829	0.237337	0.225363	0.248031	0.218011	0.237055	0.218283

0.18	0.21459	0.229248	0.221664	0.245053	0.214312	0.228965	0.214591
0.181	0.2109	0.223101	0.217965	0.241022	0.210613	0.222819	0.210899
0.179	0.2072	0.218898	0.214265	0.235941	0.206914	0.218616	0.207207
0.155	0.2035	0.216638	0.210566	0.229807	0.203214	0.216356	0.203515
0.136	0.16183	0.202421	0.168897	0.183568	0.161545	0.202139	0.161737
0.135	0.1581	0.185589	0.165169	0.18164	0.157817	0.185307	0.158045
0.131	0.15437	0.170701	0.161441	0.178662	0.154089	0.170419	0.154353
0.131	0.15064	0.157757	0.157713	0.174631	0.150361	0.157475	0.150661
0.129	0.14692	0.146756	0.153985	0.16955	0.146633	0.146474	0.146969
0.102	0.14319	0.137698	0.150257	0.163417	0.142905	0.137416	0.143277
0.098	0.10166	0.143116	0.108731	0.090621	0.10138	0.142834	0.1015
0.098	0.0979	0.119487	0.104975	0.088693	0.097623	0.119205	0.097808
0.095	0.09415	0.097801	0.101218	0.085714	0.093866	0.097519	0.094116
0.094	0.09039	0.078058	0.097461	0.081684	0.090109	0.077776	0.090424
0.093	0.08663	0.060259	0.093704	0.076602	0.086352	0.059977	0.086732
0.061	0.08288	0.044403	0.089947	0.070469	0.082595	0.044121	0.08304
0.231	0.25275	0.204634	0.248359	0.213499	0.258308	0.210192	0.252877
0.23	0.24911	0.208197	0.244717	0.211571	0.254666	0.213754	0.249185
0.229	0.24547	0.213704	0.241075	0.208592	0.251025	0.219261	0.245493
0.225	0.24183	0.221153	0.237434	0.204562	0.247383	0.22671	0.241801
0.221	0.23818	0.230546	0.233792	0.19948	0.243741	0.236103	0.238108
0.206	0.23454	0.241883	0.23015	0.193347	0.2401	0.24744	0.234416
0.201	0.22267	0.198308	0.218276	0.210179	0.228225	0.203865	0.222758
0.2	0.21901	0.198472	0.21462	0.208252	0.224569	0.204029	0.219066
0.198	0.21536	0.200579	0.210964	0.205273	0.220913	0.206136	0.215374
0.196	0.2117	0.20463	0.207308	0.201242	0.217257	0.210187	0.211682
0.186	0.20804	0.210624	0.203652	0.196161	0.213601	0.216181	0.20799
0.171	0.20439	0.218561	0.199996	0.190028	0.209945	0.224118	0.204298
0.173	0.19259	0.188393	0.188193	0.20022	0.198142	0.19395	0.192639
0.168	0.18891	0.185158	0.184523	0.198293	0.194472	0.190715	0.188947
0.165	0.18524	0.183866	0.180852	0.195314	0.190801	0.189423	0.185255
0.163	0.18157	0.184518	0.177182	0.191284	0.187131	0.190075	0.181563
0.16	0.1779	0.187113	0.173511	0.186202	0.183461	0.19267	0.177871
0.147	0.17423	0.191651	0.169841	0.180069	0.17979	0.197208	0.174179
0.136	0.13242	0.157798	0.128028	0.160386	0.137977	0.163355	0.132402
0.134	0.12872	0.147764	0.124328	0.158458	0.134278	0.153321	0.12871
0.131	0.12502	0.139674	0.120629	0.155479	0.130578	0.145232	0.125018
0.13	0.12132	0.133528	0.11693	0.151449	0.126879	0.139085	0.121326
0.128	0.11762	0.129325	0.113231	0.146367	0.12318	0.134882	0.117633
0.108	0.11392	0.127065	0.109531	0.140234	0.119481	0.132622	0.113941
0.089	0.07225	0.112848	0.067862	0.093995	0.077811	0.118405	0.072164
0.087	0.06853	0.096016	0.064134	0.092067	0.074083	0.101573	0.068472
0.085	0.0648	0.081128	0.060406	0.089088	0.070355	0.086685	0.06478
0.081	0.06107	0.068184	0.056678	0.085058	0.066627	0.073741	0.061088
0.08	0.05734	0.057183	0.05295	0.079976	0.062899	0.06274	0.057396
0.061	0.05361	0.048125	0.049222	0.073843	0.059171	0.053682	0.053704
0.041	0.01209	0.053543	0.007697	0.001048	0.017646	0.0591	0.011927
0.04	0.00833	0.029914	0.00394	-0.00088	0.013889	0.035471	0.008235

0.039	0.00457	0.008228	0.000183	-0.00386	0.010132	0.013785	0.004543
0.038	0.00082	-0.01151	-0.00357	-0.00789	0.006375	-0.00596	0.000851
0.034	-0.00294	-0.02931	-0.00733	-0.01297	0.002618	-0.02376	-0.00284
0.018	-0.0067	-0.04517	-0.01109	-0.0191	-0.00114	-0.03961	-0.00653
0.319	0.27691	0.228795	0.272519	0.237659	0.271637	0.22352	0.277038
0.32	0.27327	0.232358	0.268878	0.235732	0.267995	0.227083	0.273346
0.318	0.26963	0.237864	0.265236	0.232753	0.264353	0.232589	0.269653
0.317	0.26599	0.245314	0.261595	0.228723	0.260712	0.240039	0.265961
0.315	0.26234	0.254707	0.257953	0.223641	0.25707	0.249432	0.262269
0.305	0.2587	0.266044	0.254311	0.217508	0.253428	0.260769	0.258577
0.266	0.24683	0.222469	0.242437	0.23434	0.241554	0.217194	0.246919
0.265	0.24317	0.222633	0.238781	0.232412	0.237898	0.217358	0.243227
0.261	0.23952	0.22474	0.235125	0.229433	0.234242	0.219465	0.239535
0.259	0.23586	0.228791	0.231469	0.225403	0.230586	0.223516	0.235843
0.255	0.2322	0.234785	0.227812	0.220321	0.22693	0.22951	0.232151
0.225	0.22855	0.242722	0.224156	0.214188	0.223274	0.237447	0.228459
0.202	0.21675	0.212554	0.212354	0.224381	0.211471	0.207279	0.2168
0.201	0.21308	0.209319	0.208684	0.222454	0.207801	0.204044	0.213108
0.203	0.20941	0.208027	0.205013	0.219475	0.20413	0.202752	0.209416
0.198	0.20573	0.208679	0.201343	0.215445	0.20046	0.203404	0.205724
0.195	0.20206	0.211274	0.197672	0.210363	0.196789	0.205999	0.202032
0.176	0.19839	0.215812	0.194002	0.20423	0.193119	0.210537	0.19834
0.144	0.15658	0.181958	0.152188	0.184547	0.151306	0.176683	0.156563
0.145	0.15288	0.171925	0.148489	0.182619	0.147606	0.16665	0.152871
0.149	0.14918	0.163835	0.14479	0.17964	0.143907	0.15856	0.149178
0.151	0.14548	0.157689	0.141091	0.17561	0.140208	0.152414	0.145486
0.15	0.14178	0.153486	0.137391	0.170528	0.136508	0.148211	0.141794
0.136	0.13808	0.151226	0.133692	0.164395	0.132809	0.145951	0.138102
0.108	0.09642	0.137008	0.092023	0.118156	0.09114	0.131733	0.096325
0.109	0.09269	0.120177	0.088295	0.116228	0.087412	0.114902	0.092633
0.105	0.08896	0.105289	0.084567	0.113249	0.083684	0.100014	0.088941
0.103	0.08523	0.092345	0.080839	0.109219	0.079956	0.08707	0.085249
0.101	0.0815	0.081343	0.077111	0.104137	0.076228	0.076068	0.081557
0.084	0.07777	0.072286	0.073383	0.098004	0.0725	0.067011	0.077865
0.061	0.03625	0.077704	0.031857	0.025208	0.030975	0.072429	0.036088
0.059	0.03249	0.054075	0.028101	0.023281	0.027218	0.0488	0.032396
0.06	0.02874	0.032389	0.024344	0.020302	0.023461	0.027114	0.028703
0.06	0.02498	0.012646	0.020587	0.016272	0.019704	0.007371	0.025011
0.055	0.02122	-0.00515	0.01683	0.01119	0.015947	-0.01043	0.021319
0.032	0.01747	-0.02101	0.013073	0.005057	0.01219	-0.02628	0.017627
0.435	0.32523	0.277117	0.320841	0.285981	0.324951	0.276835	0.325359
0.431	0.32159	0.28068	0.3172	0.284054	0.32131	0.280398	0.321667
0.43	0.31795	0.286186	0.313558	0.281075	0.317668	0.285904	0.317975
0.428	0.31431	0.293636	0.309916	0.277044	0.314026	0.293354	0.314283
0.425	0.31067	0.303029	0.306275	0.271963	0.310385	0.302747	0.310591
0.401	0.30703	0.314365	0.302633	0.26583	0.306743	0.314083	0.306899
0.318	0.29515	0.270791	0.290758	0.282662	0.294868	0.270509	0.295241
0.321	0.29149	0.270955	0.287102	0.280734	0.291212	0.270672	0.291549

0.315	0.28784	0.273062	0.283446	0.277755	0.287556	0.27278	0.287856
0.316	0.28418	0.277112	0.27979	0.273725	0.2839	0.27683	0.284164
0.314	0.28053	0.283106	0.276134	0.268643	0.280244	0.282824	0.280472
0.298	0.27687	0.291044	0.272478	0.26251	0.276588	0.290762	0.27678
0.244	0.26507	0.260876	0.260676	0.272703	0.264786	0.260594	0.265122
0.245	0.2614	0.257641	0.257005	0.270775	0.261115	0.257358	0.26143
0.243	0.25773	0.256349	0.253335	0.267797	0.257445	0.256067	0.257738
0.239	0.25406	0.257	0.249664	0.263766	0.253774	0.256718	0.254046
0.24	0.25039	0.259595	0.245994	0.258685	0.250104	0.259313	0.250354
0.211	0.24672	0.264134	0.242323	0.252551	0.246433	0.263852	0.246661
0.176	0.2049	0.23028	0.20051	0.232868	0.20462	0.229998	0.204884
0.17	0.2012	0.220247	0.196811	0.230941	0.200921	0.219965	0.201192
0.168	0.1975	0.212157	0.193112	0.227962	0.197222	0.211875	0.1975
0.167	0.1938	0.20601	0.189412	0.223932	0.193522	0.205728	0.193808
0.16	0.19011	0.201807	0.185713	0.21885	0.189823	0.201525	0.190116
0.141	0.18641	0.199548	0.182014	0.212717	0.186124	0.199266	0.186424
0.122	0.14474	0.18533	0.140345	0.166477	0.144455	0.185048	0.144647
0.121	0.14101	0.168499	0.136617	0.16455	0.140727	0.168217	0.140955
0.12	0.13728	0.153611	0.132889	0.161571	0.136999	0.153329	0.137263
0.119	0.13355	0.140666	0.12916	0.157541	0.13327	0.140384	0.133571
0.117	0.12982	0.129665	0.125432	0.152459	0.129542	0.129383	0.129879
0.084	0.1261	0.120607	0.121704	0.146326	0.125814	0.120325	0.126186
0.071	0.08457	0.126026	0.080179	0.07353	0.084289	0.125744	0.084409
0.068	0.08081	0.102396	0.076422	0.071603	0.080532	0.102114	0.080717
0.065	0.07706	0.08071	0.072665	0.068624	0.076775	0.080428	0.077025
0.066	0.0733	0.060968	0.068909	0.064593	0.073019	0.060686	0.073333
0.061	0.06954	0.043169	0.065152	0.059512	0.069262	0.042886	0.069641
0.029	0.06579	0.027313	0.061395	0.053379	0.065505	0.027031	0.065949
0.257	0.29693	0.248816	0.294475	0.257681	0.30249	0.254374	0.297059
0.258	0.29329	0.252379	0.290833	0.255753	0.298848	0.257937	0.293367
0.257	0.28965	0.257886	0.287192	0.252774	0.295207	0.263443	0.289675
0.259	0.28601	0.265335	0.28355	0.248744	0.291565	0.270892	0.285983
0.255	0.28237	0.274728	0.279908	0.243662	0.287923	0.280286	0.282291
0.248	0.27872	0.286065	0.276267	0.237529	0.284282	0.291622	0.278598
0.229	0.26685	0.24249	0.264392	0.254361	0.272407	0.248047	0.26694
0.23	0.26319	0.242654	0.260736	0.252434	0.268751	0.248211	0.263248
0.228	0.25954	0.244761	0.25708	0.249455	0.265095	0.250318	0.259556
0.227	0.25588	0.248812	0.253424	0.245424	0.261439	0.254369	0.255864
0.226	0.25223	0.254806	0.249768	0.240343	0.257783	0.260363	0.252172
0.211	0.24857	0.262743	0.246112	0.23421	0.254127	0.2683	0.24848
0.211	0.23677	0.232575	0.23431	0.244402	0.242324	0.238132	0.236821
0.21	0.2331	0.22934	0.230639	0.242475	0.238654	0.234897	0.233129
0.21	0.22943	0.228048	0.226969	0.239496	0.234984	0.233605	0.229437
0.209	0.22576	0.2287	0.223298	0.235466	0.231313	0.234257	0.225745
0.208	0.22209	0.231295	0.219628	0.230384	0.227643	0.236852	0.222053
0.189	0.21841	0.235833	0.215957	0.224251	0.223972	0.24139	0.218361
0.165	0.1766	0.20198	0.174144	0.204568	0.182159	0.207537	0.176584
0.166	0.1729	0.191946	0.170445	0.20264	0.17846	0.197503	0.172892

0.167	0.1692	0.183856	0.166746	0.199661	0.17476	0.189414	0.1692
0.168	0.1655	0.17771	0.163046	0.195631	0.171061	0.183267	0.165508
0.165	0.1618	0.173507	0.159347	0.190549	0.167362	0.179064	0.161816
0.159	0.15811	0.171247	0.155648	0.184416	0.163663	0.176804	0.158123
0.139	0.11644	0.15703	0.113979	0.138177	0.121993	0.162587	0.116346
0.14	0.11271	0.140198	0.110251	0.136249	0.118265	0.145755	0.112654
0.14	0.10898	0.12531	0.106522	0.13327	0.114537	0.130867	0.108962
0.141	0.10525	0.112366	0.102794	0.12924	0.110809	0.117923	0.10527
0.138	0.10152	0.101365	0.099066	0.124159	0.107081	0.106922	0.101578
0.125	0.0978	0.092307	0.095338	0.118025	0.103353	0.097864	0.097886
0.111	0.05627	0.097725	0.053813	0.04523	0.061828	0.103282	0.056109
0.109	0.05251	0.074096	0.050056	0.043302	0.058071	0.079653	0.052417
0.108	0.04876	0.05241	0.046299	0.040323	0.054314	0.057967	0.048725
0.107	0.045	0.032667	0.042542	0.036293	0.050557	0.038224	0.045033
0.106	0.04124	0.014868	0.038786	0.031211	0.0468	0.020425	0.041341
0.087	0.03749	-0.00099	0.035029	0.025078	0.043044	0.004569	0.037648
0.372	0.32109	0.272977	0.318636	0.281841	0.315819	0.267702	0.32122
0.371	0.31745	0.27654	0.314994	0.279914	0.312177	0.271265	0.317528
0.37	0.31381	0.282046	0.311353	0.276935	0.308535	0.276771	0.313836
0.37	0.31017	0.289496	0.307711	0.272905	0.304894	0.284221	0.310143
0.368	0.30653	0.298889	0.304069	0.267823	0.301252	0.293614	0.306451
0.349	0.30289	0.310226	0.300428	0.26169	0.29761	0.304951	0.302759
0.324	0.29101	0.266651	0.288553	0.278522	0.285736	0.261376	0.291101
0.323	0.28735	0.266815	0.284897	0.276594	0.28208	0.26154	0.287409
0.321	0.2837	0.268922	0.281241	0.273616	0.278424	0.263647	0.283717
0.32	0.28004	0.272973	0.277585	0.269585	0.274768	0.267698	0.280025
0.32	0.27639	0.278967	0.273929	0.264504	0.271112	0.273692	0.276333
0.301	0.27273	0.286904	0.270273	0.25837	0.267456	0.281629	0.272641
0.288	0.26093	0.256736	0.25847	0.268563	0.255653	0.251461	0.260982
0.289	0.25726	0.253501	0.2548	0.266636	0.251983	0.248226	0.25729
0.286	0.25359	0.252209	0.25113	0.263657	0.248312	0.246934	0.253598
0.284	0.24992	0.252861	0.247459	0.259627	0.244642	0.247586	0.249906
0.284	0.24625	0.255456	0.243789	0.254545	0.240971	0.250181	0.246214
0.26	0.24258	0.259994	0.240118	0.248412	0.237301	0.254719	0.242522
0.211	0.20076	0.22614	0.198305	0.228729	0.195488	0.220865	0.200745
0.212	0.19706	0.216107	0.194606	0.226801	0.191788	0.210832	0.197053
0.212	0.19336	0.208017	0.190906	0.223822	0.188089	0.202742	0.193361
0.213	0.18966	0.201871	0.187207	0.219792	0.18439	0.196596	0.189668
0.21	0.18597	0.197668	0.183508	0.21471	0.180691	0.192393	0.185976
0.179	0.18227	0.195408	0.179809	0.208577	0.176991	0.190133	0.182284
0.144	0.1406	0.18119	0.138139	0.162338	0.135322	0.175915	0.140507
0.145	0.13687	0.164359	0.134411	0.16041	0.131594	0.159084	0.136815
0.146	0.13314	0.149471	0.130683	0.157431	0.127866	0.144196	0.133123
0.147	0.12941	0.136527	0.126955	0.153401	0.124138	0.131252	0.129431
0.148	0.12568	0.125525	0.123227	0.148319	0.12041	0.12025	0.125739
0.125	0.12196	0.116468	0.119499	0.142186	0.116682	0.111193	0.122047
0.11	0.08043	0.121886	0.077974	0.06939	0.075157	0.116611	0.08027
0.11	0.07667	0.098257	0.074217	0.067463	0.0714	0.092982	0.076578

0.109	0.07292	0.076571	0.07046	0.064484	0.067643	0.071296	0.072885
0.108	0.06916	0.056828	0.066703	0.060454	0.063886	0.051553	0.069193
0.107	0.0654	0.039029	0.062946	0.055372	0.060129	0.033754	0.065501
0.078	0.06165	0.023173	0.05919	0.049239	0.056372	0.017898	0.061809
0.445	0.36942	0.321299	0.366958	0.330163	0.369133	0.321017	0.369541
0.444	0.36577	0.324862	0.363316	0.328236	0.365492	0.32458	0.365849
0.441	0.36213	0.330368	0.359674	0.325257	0.36185	0.330086	0.362157
0.44	0.35849	0.337818	0.356033	0.321226	0.358208	0.337536	0.358465
0.44	0.35485	0.347211	0.352391	0.316145	0.354567	0.346929	0.354773
0.401	0.35121	0.358547	0.348749	0.310012	0.350925	0.358265	0.351081
0.399	0.33933	0.314973	0.336875	0.326844	0.33905	0.314691	0.339423
0.398	0.33568	0.315137	0.333219	0.324916	0.335394	0.314854	0.335731
0.395	0.33202	0.317244	0.329563	0.321937	0.331738	0.316962	0.332038
0.395	0.32836	0.321294	0.325907	0.317907	0.328082	0.321012	0.328346
0.393	0.32471	0.327288	0.322251	0.312825	0.324426	0.327006	0.324654
0.358	0.32105	0.335226	0.318595	0.306692	0.32077	0.334944	0.320962
0.341	0.30925	0.305058	0.306792	0.316885	0.308968	0.304776	0.309304
0.344	0.30558	0.301823	0.303122	0.314957	0.305297	0.30154	0.305612
0.339	0.30191	0.300531	0.299451	0.311979	0.301627	0.300249	0.30192
0.338	0.29824	0.301182	0.295781	0.307948	0.297956	0.3009	0.298228
0.337	0.29457	0.303777	0.29211	0.302867	0.294286	0.303495	0.294536
0.31	0.2909	0.308316	0.28844	0.296734	0.290615	0.308034	0.290844
0.239	0.24908	0.274462	0.246627	0.27705	0.248802	0.27418	0.249066
0.24	0.24539	0.264429	0.242927	0.275123	0.245103	0.264147	0.245374
0.238	0.24169	0.256339	0.239228	0.272144	0.241404	0.256057	0.241682
0.234	0.23799	0.250193	0.235529	0.268114	0.237704	0.24991	0.23799
0.231	0.23429	0.245989	0.23183	0.263032	0.234005	0.245707	0.234298
0.202	0.23059	0.24373	0.22813	0.256899	0.230306	0.243448	0.230606
0.157	0.18892	0.229512	0.186461	0.210659	0.188637	0.22923	0.188829
0.156	0.18519	0.212681	0.182733	0.208732	0.184909	0.212399	0.185137
0.157	0.18146	0.197793	0.179005	0.205753	0.181181	0.197511	0.181445
0.155	0.17773	0.184848	0.175277	0.201723	0.177453	0.184566	0.177753
0.156	0.17401	0.173847	0.171549	0.196641	0.173724	0.173565	0.174061
0.138	0.17028	0.164789	0.167821	0.190508	0.169996	0.164507	0.170369
0.121	0.12875	0.170208	0.126296	0.117712	0.128471	0.169926	0.128591
0.118	0.125	0.146578	0.122539	0.115785	0.124714	0.146296	0.124899
0.117	0.12124	0.124892	0.118782	0.112806	0.120957	0.12461	0.121207
0.115	0.11748	0.10515	0.115025	0.108775	0.117201	0.104868	0.117515
0.116	0.11373	0.087351	0.111268	0.103694	0.113444	0.087068	0.113823
0.101	0.10997	0.071495	0.107511	0.097561	0.109687	0.071213	0.110131
0.244	0.2713	0.223181	0.278414	0.232045	0.276854	0.228738	0.271423
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0.193	0.21113	0.206939	0.218249	0.218767	0.216689	0.212497	0.211185
0.194	0.20746	0.203704	0.214578	0.216839	0.213018	0.209261	0.207493
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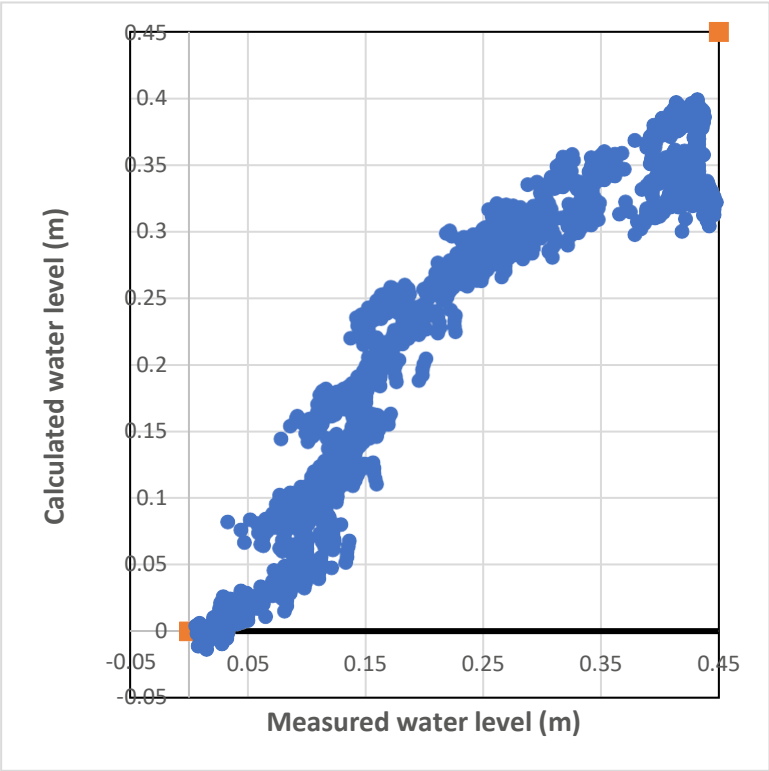
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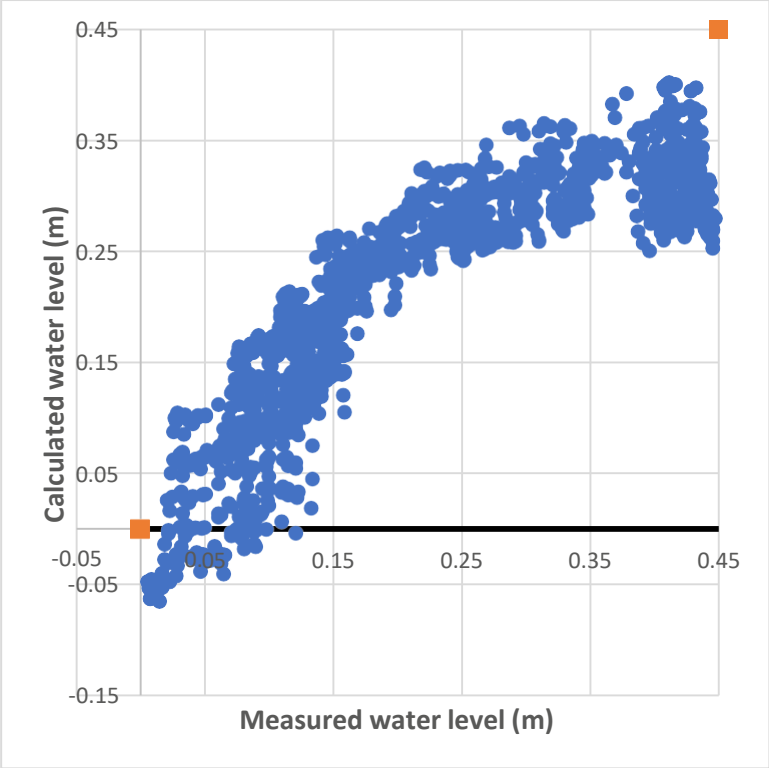
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0.44	0.32305	0.282136	0.318703	0.285509	0.322765	0.281853	0.323123
0.439	0.31941	0.287642	0.315061	0.28253	0.319124	0.28736	0.319431
0.435	0.31576	0.295092	0.31142	0.2785	0.315482	0.294809	0.315739
0.431	0.31212	0.304485	0.307778	0.273418	0.31184	0.304202	0.312047
0.412	0.30848	0.315821	0.304136	0.267285	0.308199	0.315539	0.308355
0.375	0.29661	0.272246	0.292262	0.284117	0.296324	0.271964	0.296696
0.376	0.29295	0.27241	0.288606	0.28219	0.292668	0.272128	0.293004
0.375	0.28929	0.274517	0.28495	0.279211	0.289012	0.274235	0.289312
0.369	0.28564	0.278568	0.281294	0.275181	0.285356	0.278286	0.28562
0.365	0.28198	0.284562	0.277638	0.270099	0.2817	0.28428	0.281928
0.329	0.27833	0.292499	0.273982	0.263966	0.278044	0.292217	0.278236
0.286	0.26652	0.262331	0.262179	0.274159	0.266241	0.262049	0.266577
0.284	0.26285	0.259096	0.258509	0.272231	0.262571	0.258814	0.262885
0.281	0.25918	0.257804	0.254838	0.269252	0.2589	0.257522	0.259193
0.28	0.25551	0.258456	0.251168	0.265222	0.25523	0.258174	0.255501
0.274	0.25184	0.261051	0.247497	0.26014	0.25156	0.260769	0.251809
0.243	0.24817	0.265589	0.243827	0.254007	0.247889	0.265307	0.248117
0.191	0.20636	0.231736	0.202014	0.234324	0.206076	0.231454	0.20634
0.192	0.20266	0.221703	0.198314	0.232397	0.202377	0.22142	0.202648

0.193	0.19896	0.213613	0.194615	0.229418	0.198677	0.213331	0.198956
0.19	0.19526	0.207466	0.190916	0.225387	0.194978	0.207184	0.195264
0.189	0.19156	0.203263	0.187217	0.220306	0.191279	0.202981	0.191572
0.153	0.18786	0.201003	0.183517	0.214173	0.18758	0.200721	0.18788
0.139	0.14619	0.186786	0.141848	0.167933	0.14591	0.186504	0.146102
0.14	0.14246	0.169954	0.13812	0.166006	0.142182	0.169672	0.14241
0.142	0.13874	0.155067	0.134392	0.163027	0.138454	0.154784	0.138718
0.141	0.13501	0.142122	0.130664	0.158996	0.134726	0.14184	0.135026
0.135	0.13128	0.131121	0.126936	0.153915	0.130998	0.130839	0.131334
0.124	0.12755	0.122063	0.123208	0.147782	0.12727	0.121781	0.127642
0.078	0.08603	0.127481	0.081683	0.074986	0.085745	0.127199	0.085865
0.074	0.08227	0.103852	0.077926	0.073058	0.081988	0.10357	0.082173
0.076	0.07851	0.082166	0.074169	0.070079	0.078231	0.081884	0.078481
0.069	0.07476	0.062423	0.070412	0.066049	0.074474	0.062141	0.074789
0.068	0.071	0.044624	0.066655	0.060967	0.070717	0.044342	0.071097
0.041	0.06724	0.028768	0.062898	0.054834	0.066961	0.028486	0.067405

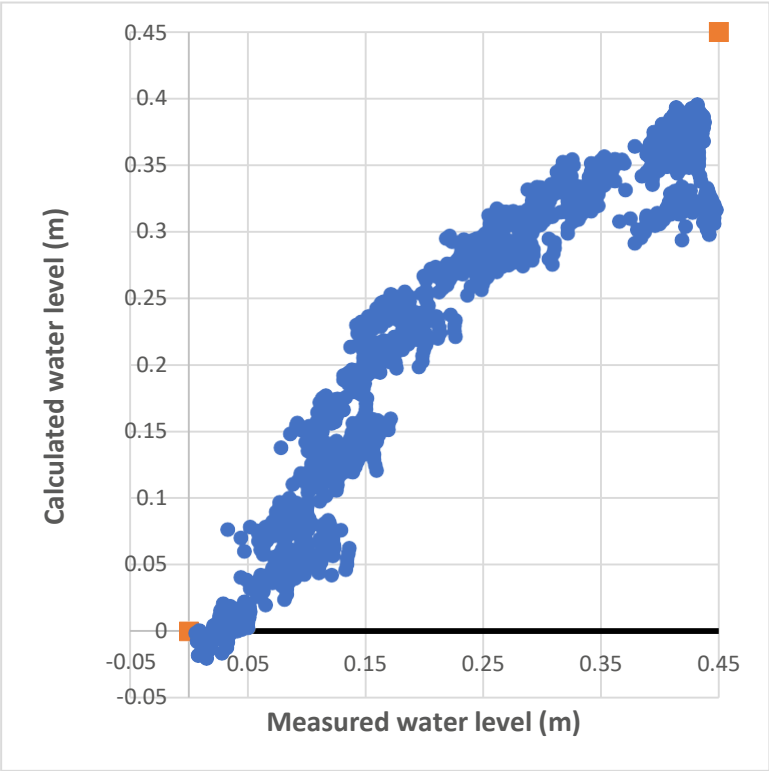
Appendix VI



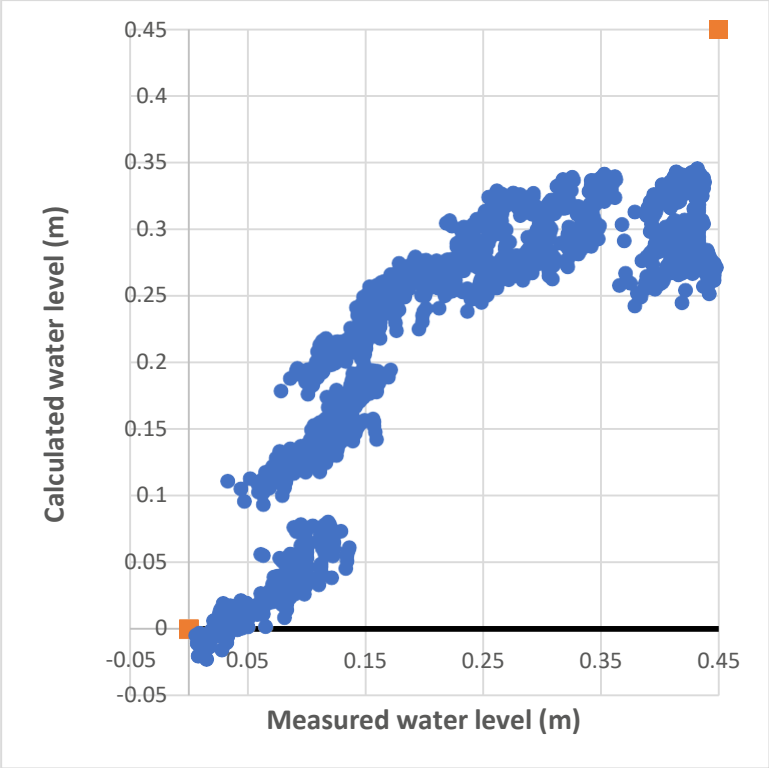
Measured water level vs calculated water level storm event test results for Model1



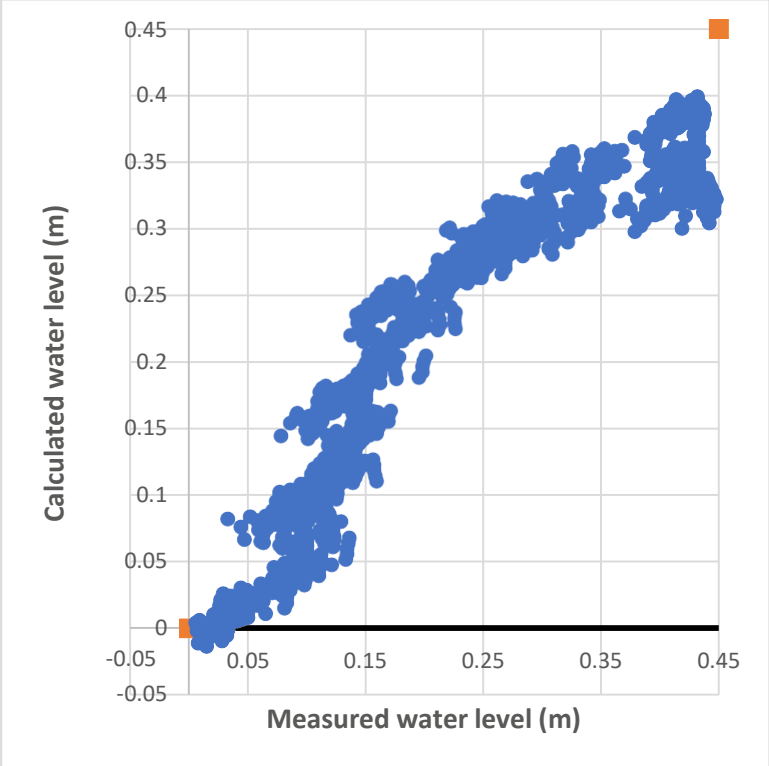
Measured water level vs calculated water level storm event test results for Model2



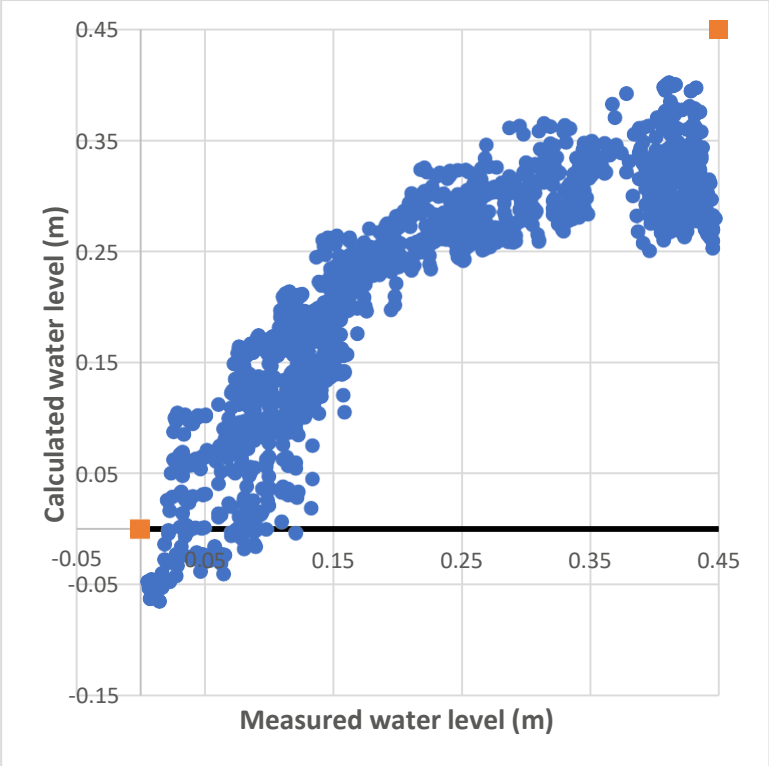
Measured water level vs calculated water level storm event test results for Model3



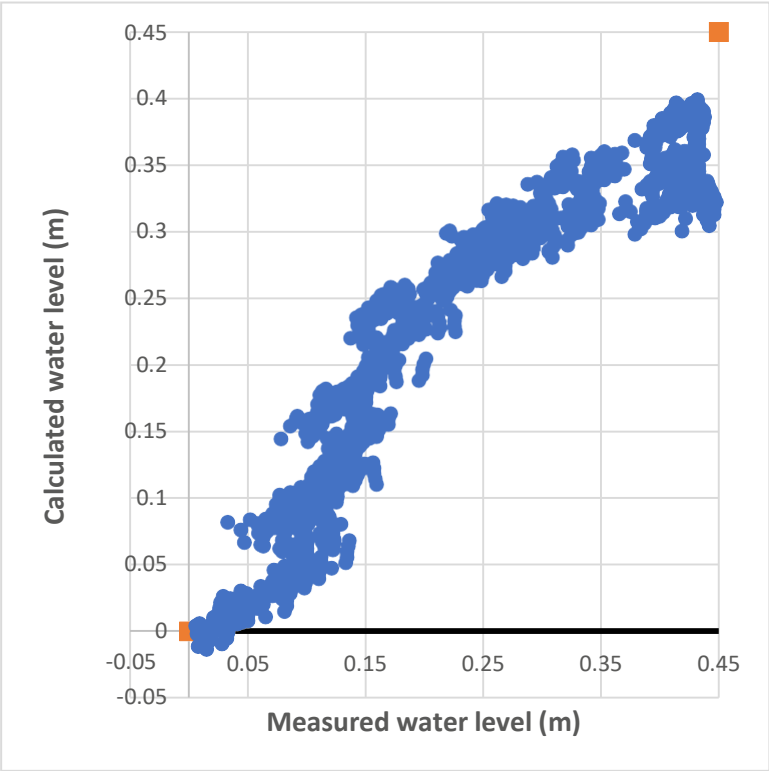
Measured water level vs calculated water level storm event test results for Model4



Measured water level vs calculated water level storm event test results for Model5



Measured water level vs calculated water level storm event test results for Model6



Measured water level vs calculated water level storm event test results for Model7

Storm event (100mm/hr)

	Model number						
	1	2	3	4	5	6	7
y	Negative predictions						
	10	58	25	27	10	58	10
Measure water level (m)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)	WI (m) (calc)
0.394	0.37937	0.311102	0.373916	0.325492	0.379372	0.311102	0.379242
0.394	0.37523	0.317874	0.369774	0.323351	0.37523	0.317874	0.375152
0.391	0.37109	0.328339	0.365631	0.320041	0.371087	0.328339	0.371061
0.389	0.36694	0.342497	0.361489	0.315563	0.366945	0.342497	0.366971
0.388	0.3628	0.360349	0.357346	0.309918	0.362802	0.360349	0.36288
0.367	0.35866	0.381895	0.353204	0.303104	0.35866	0.381895	0.35879
0.307	0.34043	0.302087	0.334978	0.321357	0.340434	0.302087	0.340341
0.305	0.33631	0.30334	0.33085	0.319216	0.336306	0.30334	0.33625
0.303	0.33218	0.308287	0.326723	0.315906	0.332179	0.308287	0.33216
0.301	0.32805	0.316928	0.322595	0.311429	0.328051	0.316928	0.328069
0.3	0.32392	0.329262	0.318467	0.305783	0.323923	0.329262	0.323979
0.269	0.3198	0.34529	0.31434	0.29897	0.319796	0.34529	0.319888
0.249	0.3015	0.289753	0.296039	0.308953	0.301495	0.289753	0.30144
0.244	0.29738	0.285489	0.291927	0.306812	0.297383	0.285489	0.297349
0.247	0.29327	0.284918	0.287814	0.303502	0.29327	0.284918	0.293259
0.242	0.28916	0.288041	0.283701	0.299025	0.289157	0.288041	0.289168
0.241	0.28504	0.294858	0.279588	0.293379	0.285044	0.294858	0.285078
0.227	0.28093	0.305367	0.275476	0.286565	0.280931	0.305367	0.280987
0.175	0.22362	0.255135	0.218163	0.259337	0.223618	0.255135	0.223637
0.174	0.21954	0.239835	0.214079	0.257195	0.219535	0.239835	0.219547
0.174	0.21545	0.228229	0.209996	0.253886	0.215452	0.228229	0.215456
0.173	0.21137	0.220316	0.205913	0.249408	0.211369	0.220316	0.211366
0.171	0.20729	0.216096	0.20183	0.243762	0.207286	0.216096	0.207275
0.154	0.2032	0.215571	0.197747	0.236949	0.203203	0.215571	0.203185
0.148	0.14574	0.207247	0.140286	0.176642	0.145742	0.207247	0.145834
0.147	0.14169	0.180911	0.136232	0.174501	0.141688	0.180911	0.141744
0.143	0.13763	0.158269	0.132179	0.171191	0.137635	0.158269	0.137653
0.141	0.13358	0.139321	0.128126	0.166714	0.133582	0.139321	0.133563
0.138	0.12953	0.124066	0.124072	0.161068	0.129528	0.124066	0.129473
0.135	0.12547	0.112504	0.120019	0.154255	0.125475	0.112504	0.125382
0.136	0.06786	0.146089	0.062409	0.06087	0.067865	0.146089	0.068032
0.135	0.06384	0.108718	0.058385	0.058729	0.063841	0.108718	0.063941
0.134	0.05982	0.07504	0.054362	0.055419	0.059817	0.07504	0.059851
0.134	0.05579	0.045056	0.050338	0.050942	0.055794	0.045056	0.05576

0.133	0.05177	0.018766	0.046314	0.045296	0.05177	0.018766	0.05167
0.121	0.04775	-0.00383	0.042291	0.038483	0.047747	-0.00383	0.047579
0.431	0.38168	0.313406	0.376276	0.327795	0.381676	0.313406	0.381546
0.43	0.37753	0.320177	0.372134	0.325654	0.377533	0.320177	0.377455
0.43	0.37339	0.330642	0.367991	0.322345	0.373391	0.330642	0.373365
0.432	0.36925	0.344801	0.363849	0.317867	0.369248	0.344801	0.369274
0.429	0.36511	0.362653	0.359706	0.312221	0.365106	0.362653	0.365184
0.412	0.36096	0.384198	0.355564	0.305408	0.360963	0.384198	0.361093
0.345	0.34274	0.30439	0.337338	0.323661	0.342737	0.30439	0.342644
0.343	0.33861	0.305644	0.33321	0.321519	0.33861	0.305644	0.338554
0.34	0.33448	0.310591	0.329083	0.31821	0.334482	0.310591	0.334463
0.341	0.33035	0.319231	0.324955	0.313732	0.330354	0.319231	0.330373
0.343	0.32623	0.331565	0.320827	0.308087	0.326227	0.331565	0.326282
0.331	0.3221	0.347593	0.3167	0.301273	0.322099	0.347593	0.322192
0.26	0.3038	0.292057	0.298399	0.311257	0.303799	0.292057	0.303743
0.262	0.29969	0.287793	0.294287	0.309115	0.299686	0.287793	0.299653
0.261	0.29557	0.287222	0.290174	0.305806	0.295573	0.287222	0.295562
0.261	0.29146	0.290345	0.286061	0.301328	0.29146	0.290345	0.291472
0.265	0.28735	0.297161	0.281948	0.295683	0.287348	0.297161	0.287381
0.227	0.28323	0.307671	0.277836	0.288869	0.283235	0.307671	0.283291
0.174	0.22592	0.257438	0.220523	0.26164	0.225922	0.257438	0.22594
0.173	0.22184	0.242138	0.21644	0.259499	0.221839	0.242138	0.22185
0.172	0.21776	0.230532	0.212356	0.256189	0.217756	0.230532	0.21776
0.171	0.21367	0.222619	0.208273	0.251712	0.213673	0.222619	0.213669
0.17	0.20959	0.2184	0.20419	0.246066	0.20959	0.2184	0.209579
0.152	0.20551	0.217874	0.200107	0.239252	0.205507	0.217874	0.205488
0.125	0.14804	0.20955	0.142646	0.178946	0.148045	0.20955	0.148138
0.125	0.14399	0.183215	0.138592	0.176804	0.143992	0.183215	0.144047
0.126	0.13994	0.160573	0.134539	0.173495	0.139938	0.160573	0.139957
0.126	0.13589	0.141624	0.130486	0.169017	0.135885	0.141624	0.135866
0.124	0.13183	0.126369	0.126432	0.163372	0.131832	0.126369	0.131776
0.115	0.12778	0.114808	0.122379	0.156558	0.127778	0.114808	0.127686
0.1	0.07017	0.148392	0.064769	0.063174	0.070168	0.148392	0.070335
0.1	0.06614	0.111021	0.060745	0.061032	0.066145	0.111021	0.066245
0.1	0.06212	0.077344	0.056722	0.057723	0.062121	0.077344	0.062154
0.1	0.0581	0.04736	0.052698	0.053245	0.058097	0.04736	0.058064
0.1	0.05407	0.021069	0.048674	0.0476	0.054074	0.021069	0.053973
0.09	0.05005	-0.00153	0.044651	0.040786	0.05005	-0.00153	0.049883
0.396	0.36716	0.298891	0.371417	0.313281	0.367161	0.298891	0.367031
0.395	0.36302	0.305662	0.367275	0.311139	0.363018	0.305662	0.36294
0.393	0.35888	0.316127	0.363132	0.30783	0.358876	0.316127	0.35885
0.392	0.35473	0.330286	0.35899	0.303352	0.354733	0.330286	0.354759
0.391	0.35059	0.348138	0.354847	0.297707	0.350591	0.348138	0.350669
0.369	0.34645	0.369683	0.350705	0.290893	0.346448	0.369683	0.346579
0.298	0.32822	0.289875	0.332479	0.309146	0.328222	0.289875	0.32813
0.303	0.32409	0.291129	0.328351	0.307005	0.324095	0.291129	0.324039
0.297	0.31997	0.296076	0.324223	0.303695	0.319967	0.296076	0.319949

0.295	0.31584	0.304717	0.320096	0.299218	0.31584	0.304717	0.315858
0.287	0.31171	0.317051	0.315968	0.293572	0.311712	0.317051	0.311768
0.268	0.30758	0.333078	0.31184	0.286758	0.307584	0.333078	0.307677
0.233	0.28928	0.277542	0.29354	0.296742	0.289284	0.277542	0.289228
0.232	0.28517	0.273278	0.289427	0.2946	0.285171	0.273278	0.285138
0.231	0.28106	0.272707	0.285315	0.291291	0.281059	0.272707	0.281047
0.23	0.27695	0.27583	0.281202	0.286813	0.276946	0.27583	0.276957
0.229	0.27283	0.282646	0.277089	0.281168	0.272833	0.282646	0.272866
0.209	0.26872	0.293156	0.272976	0.274354	0.26872	0.293156	0.268776
0.161	0.21141	0.242924	0.215663	0.247125	0.211407	0.242924	0.211426
0.159	0.20732	0.227624	0.21158	0.244984	0.207324	0.227624	0.207335
0.157	0.20324	0.216017	0.207497	0.241674	0.203241	0.216017	0.203245
0.15	0.19916	0.208104	0.203414	0.237197	0.199158	0.208104	0.199154
0.149	0.19507	0.203885	0.199331	0.231551	0.195075	0.203885	0.195064
0.143	0.19099	0.203359	0.195248	0.224738	0.190992	0.203359	0.190973
0.137	0.13353	0.195035	0.137786	0.164431	0.13353	0.195035	0.133623
0.138	0.12948	0.1687	0.133733	0.16229	0.129477	0.1687	0.129533
0.137	0.12542	0.146058	0.12968	0.15898	0.125424	0.146058	0.125442
0.136	0.12137	0.127109	0.125626	0.154503	0.12137	0.127109	0.121352
0.135	0.11732	0.111854	0.121573	0.148857	0.117317	0.111854	0.117261
0.128	0.11326	0.100293	0.11752	0.142043	0.113264	0.100293	0.113171
0.112	0.05565	0.133878	0.059909	0.048659	0.055653	0.133878	0.055821
0.112	0.05163	0.096507	0.055886	0.046518	0.05163	0.096507	0.05173
0.112	0.04761	0.062829	0.051862	0.043208	0.047606	0.062829	0.04764
0.11	0.04358	0.032845	0.047839	0.038731	0.043583	0.032845	0.043549
0.11	0.03956	0.006554	0.043815	0.033085	0.039559	0.006554	0.039459
0.09	0.03554	-0.01604	0.039791	0.026271	0.035535	-0.01604	0.035368
0.432	0.36946	0.301195	0.373777	0.315584	0.369464	0.301195	0.369334
0.432	0.36532	0.307966	0.369635	0.313443	0.365322	0.307966	0.365244
0.43	0.36118	0.318431	0.365492	0.310133	0.361179	0.318431	0.361153
0.431	0.35704	0.332589	0.36135	0.305656	0.357037	0.332589	0.357063
0.43	0.35289	0.350441	0.357207	0.30001	0.352894	0.350441	0.352972
0.415	0.34875	0.371987	0.353065	0.293196	0.348752	0.371987	0.348882
0.342	0.33053	0.292179	0.334839	0.311449	0.330526	0.292179	0.330433
0.339	0.3264	0.293432	0.330711	0.309308	0.326398	0.293432	0.326343
0.335	0.32227	0.298379	0.326583	0.305999	0.322271	0.298379	0.322252
0.338	0.31814	0.30702	0.322456	0.301521	0.318143	0.30702	0.318162
0.337	0.31402	0.319354	0.318328	0.295875	0.314015	0.319354	0.314071
0.315	0.30989	0.335382	0.314201	0.289062	0.309888	0.335382	0.309981
0.255	0.29159	0.279846	0.2959	0.299045	0.291588	0.279846	0.291532
0.254	0.28747	0.275581	0.291787	0.296904	0.287475	0.275581	0.287441
0.256	0.28336	0.275011	0.287675	0.293594	0.283362	0.275011	0.283351
0.254	0.27925	0.278133	0.283562	0.289117	0.279249	0.278133	0.27926
0.252	0.27514	0.28495	0.279449	0.283471	0.275136	0.28495	0.27517
0.219	0.27102	0.29546	0.275336	0.276658	0.271024	0.29546	0.271079
0.165	0.21371	0.245227	0.218023	0.249429	0.213711	0.245227	0.213729
0.16	0.20963	0.229927	0.21394	0.247287	0.209628	0.229927	0.209639
0.161	0.20554	0.218321	0.209857	0.243978	0.205545	0.218321	0.205548

0.159	0.20146	0.210408	0.205774	0.2395	0.201461	0.210408	0.201458
0.161	0.19738	0.206189	0.201691	0.233855	0.197378	0.206189	0.197367
0.149	0.1933	0.205663	0.197608	0.227041	0.193295	0.205663	0.193277
0.121	0.13583	0.197339	0.140146	0.166734	0.135834	0.197339	0.135927
0.122	0.13178	0.171003	0.136093	0.164593	0.13178	0.171003	0.131836
0.122	0.12773	0.148361	0.13204	0.161284	0.127727	0.148361	0.127746
0.122	0.12367	0.129413	0.127986	0.156806	0.123674	0.129413	0.123655
0.121	0.11962	0.114158	0.123933	0.15116	0.11962	0.114158	0.119565
0.114	0.11557	0.102597	0.11988	0.144347	0.115567	0.102597	0.115474
0.098	0.05796	0.136181	0.06227	0.050962	0.057957	0.136181	0.058124
0.097	0.05393	0.09881	0.058246	0.048821	0.053933	0.09881	0.054034
0.1	0.04991	0.065132	0.054222	0.045512	0.04991	0.065132	0.049943
0.098	0.04589	0.035148	0.050199	0.041034	0.045886	0.035148	0.045853
0.09	0.04186	0.008858	0.046175	0.035388	0.041862	0.008858	0.041762
0.089	0.03784	-0.01374	0.042152	0.028575	0.037839	-0.01374	0.037672
0.397	0.34274	0.274468	0.351423	0.288858	0.342738	0.274468	0.342608
0.396	0.3386	0.28124	0.347281	0.286717	0.338596	0.28124	0.338518
0.393	0.33445	0.291705	0.343138	0.283407	0.334453	0.291705	0.334427
0.393	0.33031	0.305863	0.338996	0.27893	0.330311	0.305863	0.330337
0.393	0.32617	0.323715	0.334853	0.273284	0.326168	0.323715	0.326246
0.37	0.32203	0.345261	0.330711	0.26647	0.322026	0.345261	0.322156
0.288	0.3038	0.265453	0.312485	0.284723	0.3038	0.265453	0.303707
0.286	0.29967	0.266706	0.308357	0.282582	0.299672	0.266706	0.299617
0.284	0.29554	0.271653	0.304229	0.279272	0.295545	0.271653	0.295526
0.284	0.29142	0.280294	0.300102	0.274795	0.291417	0.280294	0.291436
0.283	0.28729	0.292628	0.295974	0.269149	0.287289	0.292628	0.287345
0.259	0.28316	0.308656	0.291846	0.262336	0.283162	0.308656	0.283255
0.219	0.26486	0.25312	0.273546	0.272319	0.264861	0.25312	0.264806
0.218	0.26075	0.248855	0.269433	0.270178	0.260749	0.248855	0.260715
0.216	0.25664	0.248285	0.265321	0.266868	0.256636	0.248285	0.256625
0.215	0.25252	0.251407	0.261208	0.262391	0.252523	0.251407	0.252534
0.215	0.24841	0.258224	0.257095	0.256745	0.24841	0.258224	0.248444
0.197	0.2443	0.268734	0.252982	0.249932	0.244298	0.268734	0.244353
0.145	0.18698	0.218501	0.195669	0.222703	0.186985	0.218501	0.187003
0.143	0.1829	0.203201	0.191586	0.220561	0.182902	0.203201	0.182913
0.142	0.17882	0.191595	0.187503	0.217252	0.178819	0.191595	0.178822
0.142	0.17474	0.183682	0.18342	0.212774	0.174735	0.183682	0.174732
0.141	0.17065	0.179463	0.179337	0.207129	0.170652	0.179463	0.170641
0.133	0.16657	0.178937	0.175254	0.200315	0.166569	0.178937	0.166551
0.129	0.10911	0.170613	0.117792	0.140008	0.109108	0.170613	0.109201
0.126	0.10505	0.144277	0.113739	0.137867	0.105054	0.144277	0.10511
0.126	0.101	0.121635	0.109686	0.134557	0.101001	0.121635	0.10102
0.125	0.09695	0.102687	0.105632	0.13008	0.096948	0.102687	0.096929
0.116	0.09289	0.087432	0.101579	0.124434	0.092894	0.087432	0.092839
0.111	0.08884	0.07587	0.097526	0.117621	0.088841	0.07587	0.088748
0.085	0.03123	0.109455	0.039915	0.024236	0.031231	0.109455	0.031398
0.084	0.02721	0.072084	0.035892	0.022095	0.027207	0.072084	0.027308

0.083	0.02318	0.038406	0.031868	0.018785	0.023184	0.038406	0.023217
0.083	0.01916	0.008422	0.027845	0.014308	0.01916	0.008422	0.019127
0.081	0.01514	-0.01787	0.023821	0.008662	0.015136	-0.01787	0.015036
0.065	0.01111	-0.04047	0.019798	0.001849	0.011113	-0.04047	0.010946
0.432	0.34504	0.276772	0.353783	0.291162	0.345042	0.276772	0.344912
0.432	0.3409	0.283543	0.349641	0.28902	0.340899	0.283543	0.340821
0.431	0.33676	0.294008	0.345498	0.285711	0.336757	0.294008	0.336731
0.433	0.33261	0.308167	0.341356	0.281233	0.332614	0.308167	0.33264
0.434	0.32847	0.326019	0.337213	0.275588	0.328472	0.326019	0.32855
0.418	0.32433	0.347564	0.333071	0.268774	0.324329	0.347564	0.324459
0.329	0.3061	0.267756	0.314845	0.287027	0.306103	0.267756	0.306011
0.328	0.30198	0.26901	0.310717	0.284885	0.301976	0.26901	0.30192
0.325	0.29785	0.273957	0.306589	0.281576	0.297848	0.273957	0.29783
0.321	0.29372	0.282598	0.302462	0.277098	0.293721	0.282598	0.293739
0.321	0.28959	0.294932	0.298334	0.271453	0.289593	0.294932	0.289649
0.305	0.28547	0.310959	0.294207	0.264639	0.285465	0.310959	0.285558
0.225	0.26716	0.255423	0.275906	0.274623	0.267165	0.255423	0.267109
0.22	0.26305	0.251159	0.271793	0.272481	0.263052	0.251159	0.263019
0.22	0.25894	0.250588	0.267681	0.269172	0.258939	0.250588	0.258928
0.221	0.25483	0.253711	0.263568	0.264694	0.254827	0.253711	0.254838
0.219	0.25071	0.260527	0.259455	0.259049	0.250714	0.260527	0.250747
0.201	0.2466	0.271037	0.255342	0.252235	0.246601	0.271037	0.246657
0.149	0.18929	0.220804	0.198029	0.225006	0.189288	0.220804	0.189307
0.148	0.18521	0.205505	0.193946	0.222865	0.185205	0.205505	0.185216
0.145	0.18112	0.193898	0.189863	0.219555	0.181122	0.193898	0.181126
0.149	0.17704	0.185985	0.18578	0.215078	0.177039	0.185985	0.177035
0.148	0.17296	0.181766	0.181697	0.209432	0.172956	0.181766	0.172945
0.146	0.16887	0.18124	0.177614	0.202618	0.168873	0.18124	0.168854
0.103	0.11141	0.172916	0.120152	0.142312	0.111411	0.172916	0.111504
0.102	0.10736	0.146581	0.116099	0.14017	0.107358	0.146581	0.107414
0.102	0.1033	0.123939	0.112046	0.136861	0.103305	0.123939	0.103323
0.101	0.09925	0.10499	0.107993	0.132383	0.099251	0.10499	0.099233
0.101	0.0952	0.089735	0.103939	0.126738	0.095198	0.089735	0.095142
0.085	0.09114	0.078174	0.099886	0.119924	0.091145	0.078174	0.091052
0.061	0.03353	0.111759	0.042276	0.02654	0.033534	0.111759	0.033701
0.062	0.02951	0.074388	0.038252	0.024398	0.029511	0.074388	0.029611
0.061	0.02549	0.04071	0.034228	0.021089	0.025487	0.04071	0.025521
0.061	0.02146	0.010726	0.030205	0.016611	0.021463	0.010726	0.02143
0.058	0.01744	-0.01556	0.026181	0.010966	0.01744	-0.01556	0.01734
0.047	0.01342	-0.03816	0.022158	0.004152	0.013416	-0.03816	0.013249
0.396	0.31832	0.250046	0.311435	0.264436	0.318316	0.250046	0.318186
0.391	0.31417	0.256817	0.307293	0.262294	0.314173	0.256817	0.314095
0.387	0.31003	0.267282	0.30315	0.258985	0.310031	0.267282	0.310005
0.386	0.30589	0.281441	0.299008	0.254507	0.305888	0.281441	0.305914
0.383	0.30175	0.299293	0.294865	0.248862	0.301746	0.299293	0.301824
0.378	0.2976	0.320838	0.290723	0.242048	0.297603	0.320838	0.297733
0.251	0.27938	0.24103	0.272497	0.260301	0.279377	0.24103	0.279284
0.252	0.27525	0.242284	0.268369	0.258159	0.27525	0.242284	0.275194

0.251	0.27112	0.247231	0.264241	0.25485	0.271122	0.247231	0.271104
0.249	0.26699	0.255871	0.260114	0.250372	0.266994	0.255871	0.267013
0.248	0.26287	0.268206	0.255986	0.244727	0.262867	0.268206	0.262923
0.236	0.25874	0.284233	0.251859	0.237913	0.258739	0.284233	0.258832
0.159	0.24044	0.228697	0.233558	0.247897	0.240439	0.228697	0.240383
0.154	0.23633	0.224433	0.229446	0.245755	0.236326	0.224433	0.236293
0.153	0.23221	0.223862	0.225333	0.242446	0.232213	0.223862	0.232202
0.152	0.2281	0.226985	0.22122	0.237968	0.228101	0.226985	0.228112
0.148	0.22399	0.233801	0.217107	0.232323	0.223988	0.233801	0.224021
0.137	0.21988	0.244311	0.212994	0.225509	0.219875	0.244311	0.219931
0.111	0.16256	0.194078	0.155681	0.19828	0.162562	0.194078	0.162581
0.111	0.15848	0.178779	0.151598	0.196139	0.158479	0.178779	0.15849
0.112	0.1544	0.167172	0.147515	0.192829	0.154396	0.167172	0.1544
0.109	0.15031	0.159259	0.143432	0.188352	0.150313	0.159259	0.150309
0.105	0.14623	0.15504	0.139349	0.182706	0.14623	0.15504	0.146219
0.101	0.14215	0.154514	0.135266	0.175892	0.142147	0.154514	0.142128
0.081	0.08469	0.14619	0.077804	0.115586	0.084685	0.14619	0.084778
0.082	0.08063	0.119855	0.073751	0.113444	0.080632	0.119855	0.080688
0.082	0.07658	0.097213	0.069698	0.110135	0.076579	0.097213	0.076597
0.081	0.07253	0.078264	0.065645	0.105657	0.072525	0.078264	0.072507
0.079	0.06847	0.063009	0.061591	0.100012	0.068472	0.063009	0.068416
0.063	0.06442	0.051448	0.057538	0.093198	0.064419	0.051448	0.064326
0.034	0.00681	0.085033	-7.2E-05	-0.00019	0.006808	0.085033	0.006975
0.033	0.00278	0.047661	-0.0041	-0.00233	0.002785	0.047661	0.002885
0.033	-0.00124	0.013984	-0.00812	-0.00564	-0.00124	0.013984	-0.00121
0.032	-0.00526	-0.016	-0.01214	-0.01011	-0.00526	-0.016	-0.0053
0.028	-0.00929	-0.04229	-0.01617	-0.01576	-0.00929	-0.04229	-0.00939
0.015	-0.01331	-0.06489	-0.02019	-0.02257	-0.01331	-0.06489	-0.01348
0.445	0.32062	0.252349	0.313795	0.266739	0.320619	0.252349	0.320489
0.445	0.31648	0.259121	0.309653	0.264598	0.316477	0.259121	0.316399
0.445	0.31233	0.269586	0.30551	0.261288	0.312334	0.269586	0.312308
0.439	0.30819	0.283744	0.301368	0.256811	0.308192	0.283744	0.308218
0.441	0.30405	0.301596	0.297225	0.251165	0.304049	0.301596	0.304127
0.418	0.29991	0.323142	0.293083	0.244351	0.299907	0.323142	0.300037
0.248	0.28168	0.243334	0.274857	0.262604	0.281681	0.243334	0.281588
0.247	0.27755	0.244587	0.270729	0.260463	0.277553	0.244587	0.277497
0.246	0.27343	0.249534	0.266602	0.257153	0.273426	0.249534	0.273407
0.244	0.2693	0.258175	0.262474	0.252676	0.269298	0.258175	0.269317
0.239	0.26517	0.270509	0.258346	0.24703	0.26517	0.270509	0.265226
0.212	0.26104	0.286537	0.254219	0.240217	0.261043	0.286537	0.261136
0.152	0.24274	0.231	0.235918	0.2502	0.242742	0.231	0.242687
0.151	0.23863	0.226736	0.231806	0.248059	0.23863	0.226736	0.238596
0.149	0.23452	0.226166	0.227693	0.244749	0.234517	0.226166	0.234506
0.151	0.2304	0.229288	0.22358	0.240272	0.230404	0.229288	0.230415
0.152	0.22629	0.236105	0.219467	0.234626	0.226291	0.236105	0.226325
0.144	0.22218	0.246614	0.215354	0.227813	0.222179	0.246614	0.222234
0.109	0.16487	0.196382	0.158041	0.200584	0.164866	0.196382	0.164884
0.108	0.16078	0.181082	0.153958	0.198442	0.160782	0.181082	0.160794

0.106	0.1567	0.169476	0.149875	0.195133	0.156699	0.169476	0.156703
0.104	0.15262	0.161563	0.145792	0.190655	0.152616	0.161563	0.152613
0.099	0.14853	0.157344	0.141709	0.18501	0.148533	0.157344	0.148522
0.078	0.14445	0.156818	0.137626	0.178196	0.14445	0.156818	0.144432
0.073	0.08699	0.148494	0.080165	0.117889	0.086989	0.148494	0.087082
0.071	0.08294	0.122158	0.076111	0.115748	0.082935	0.122158	0.082991
0.069	0.07888	0.099516	0.072058	0.112438	0.078882	0.099516	0.078901
0.066	0.07483	0.080568	0.068005	0.107961	0.074829	0.080568	0.07481
0.063	0.07078	0.065313	0.063951	0.102315	0.070775	0.065313	0.07072
0.047	0.06672	0.053751	0.059898	0.095502	0.066722	0.053751	0.066629
0.026	0.00911	0.087336	0.002288	0.002117	0.009112	0.087336	0.009279
0.024	0.00509	0.049965	-0.00174	-2.4E-05	0.005088	0.049965	0.005188
0.023	0.00106	0.016287	-0.00576	-0.00333	0.001065	0.016287	0.001098
0.019	-0.00296	-0.0137	-0.00978	-0.00781	-0.00296	-0.0137	-0.00299
0.017	-0.00698	-0.03999	-0.01381	-0.01346	-0.00698	-0.03999	-0.00708
0.008	-0.01101	-0.06258	-0.01783	-0.02027	-0.01101	-0.06258	-0.01117
0.408	0.38883	0.320559	0.384135	0.334948	0.388829	0.320559	0.388699
0.401	0.38469	0.32733	0.379993	0.332807	0.384686	0.32733	0.384608
0.402	0.38054	0.337795	0.37585	0.329498	0.380544	0.337795	0.380518
0.401	0.3764	0.351954	0.371708	0.32502	0.376401	0.351954	0.376427
0.402	0.37226	0.369806	0.367565	0.319374	0.372259	0.369806	0.372337
0.378	0.36812	0.391351	0.363423	0.312561	0.368116	0.391351	0.368246
0.314	0.34989	0.311543	0.345197	0.330814	0.34989	0.311543	0.349797
0.315	0.34576	0.312797	0.341069	0.328672	0.345763	0.312797	0.345707
0.321	0.34164	0.317744	0.336941	0.325363	0.341635	0.317744	0.341616
0.322	0.33751	0.326384	0.332814	0.320885	0.337507	0.326384	0.337526
0.317	0.33338	0.338719	0.328686	0.31524	0.33338	0.338719	0.333436
0.298	0.32925	0.354746	0.324558	0.308426	0.329252	0.354746	0.329345
0.257	0.31095	0.29921	0.306258	0.31841	0.310952	0.29921	0.310896
0.258	0.30684	0.294946	0.302145	0.316268	0.306839	0.294946	0.306806
0.251	0.30273	0.294375	0.298033	0.312959	0.302726	0.294375	0.302715
0.258	0.29861	0.297498	0.29392	0.308481	0.298614	0.297498	0.298625
0.256	0.2945	0.304314	0.289807	0.302836	0.294501	0.304314	0.294534
0.239	0.29039	0.314824	0.285694	0.296022	0.290388	0.314824	0.290444
0.188	0.23307	0.264591	0.228381	0.268793	0.233075	0.264591	0.233094
0.181	0.22899	0.249291	0.224298	0.266652	0.228992	0.249291	0.229003
0.179	0.22491	0.237685	0.220215	0.263342	0.224909	0.237685	0.224913
0.178	0.22083	0.229772	0.216132	0.258865	0.220826	0.229772	0.220822
0.166	0.21674	0.225553	0.212049	0.253219	0.216743	0.225553	0.216732
0.159	0.21266	0.225027	0.207966	0.246405	0.21266	0.225027	0.212641
0.147	0.1552	0.216703	0.150504	0.186099	0.155198	0.216703	0.155291
0.146	0.15114	0.190368	0.146451	0.183957	0.151145	0.190368	0.1512
0.145	0.14709	0.167726	0.142398	0.180648	0.147091	0.167726	0.14711
0.145	0.14304	0.148777	0.138344	0.17617	0.143038	0.148777	0.14302
0.145	0.13898	0.133522	0.134291	0.170525	0.138985	0.133522	0.138929
0.131	0.13493	0.121961	0.130238	0.163711	0.134931	0.121961	0.134839
0.121	0.07732	0.155546	0.072627	0.070327	0.077321	0.155546	0.077488
0.122	0.0733	0.118174	0.068604	0.068185	0.073298	0.118174	0.073398

0.123	0.06927	0.084497	0.06458	0.064876	0.069274	0.084497	0.069307
0.121	0.06525	0.054513	0.060557	0.060398	0.06525	0.054513	0.065217
0.122	0.06123	0.028222	0.056533	0.054753	0.061227	0.028222	0.061126
0.088	0.0572	0.005625	0.05251	0.047939	0.057203	0.005625	0.057036
0.435	0.39113	0.322862	0.386495	0.337252	0.391132	0.322862	0.391002
0.432	0.38699	0.329634	0.382353	0.335111	0.38699	0.329634	0.386912
0.432	0.38285	0.340099	0.37821	0.331801	0.382847	0.340099	0.382821
0.432	0.3787	0.354257	0.374068	0.327324	0.378705	0.354257	0.378731
0.431	0.37456	0.372109	0.369925	0.321678	0.374562	0.372109	0.37464
0.428	0.37042	0.393655	0.365783	0.314864	0.37042	0.393655	0.37055
0.346	0.35219	0.313847	0.347557	0.333117	0.352194	0.313847	0.352101
0.349	0.34807	0.3151	0.343429	0.330976	0.348066	0.3151	0.34801
0.348	0.34394	0.320047	0.339301	0.327666	0.343939	0.320047	0.34392
0.347	0.33981	0.328688	0.335174	0.323189	0.339811	0.328688	0.339829
0.344	0.33568	0.341022	0.331046	0.317543	0.335683	0.341022	0.335739
0.329	0.33156	0.35705	0.326919	0.31073	0.331556	0.35705	0.331649
0.264	0.31326	0.301513	0.308618	0.320713	0.313255	0.301513	0.3132
0.265	0.30914	0.297249	0.304505	0.318572	0.309143	0.297249	0.309109
0.265	0.30503	0.296678	0.300393	0.315262	0.30503	0.296678	0.305019
0.265	0.30092	0.299801	0.29628	0.310785	0.300917	0.299801	0.300928
0.261	0.2968	0.306618	0.292167	0.305139	0.296804	0.306618	0.296838
0.231	0.29269	0.317127	0.288054	0.298325	0.292691	0.317127	0.292747
0.186	0.23538	0.266895	0.230741	0.271097	0.235378	0.266895	0.235397
0.181	0.2313	0.251595	0.226658	0.268955	0.231295	0.251595	0.231307
0.181	0.22721	0.239989	0.222575	0.265646	0.227212	0.239989	0.227216
0.179	0.22313	0.232076	0.218492	0.261168	0.223129	0.232076	0.223126
0.179	0.21905	0.227856	0.214409	0.255522	0.219046	0.227856	0.219035
0.148	0.21496	0.227331	0.210326	0.248709	0.214963	0.227331	0.214945
0.141	0.1575	0.219007	0.152864	0.188402	0.157502	0.219007	0.157594
0.138	0.15345	0.192671	0.148811	0.186261	0.153448	0.192671	0.153504
0.137	0.14939	0.170029	0.144758	0.182951	0.149395	0.170029	0.149413
0.136	0.14534	0.151081	0.140704	0.178474	0.145342	0.151081	0.145323
0.136	0.14129	0.135826	0.136651	0.172828	0.141288	0.135826	0.141233
0.118	0.13723	0.124264	0.132598	0.166015	0.137235	0.124264	0.137142
0.121	0.07962	0.157849	0.074988	0.07263	0.079625	0.157849	0.079792
0.117	0.0756	0.120478	0.070964	0.070489	0.075601	0.120478	0.075701
0.116	0.07158	0.0868	0.06694	0.067179	0.071577	0.0868	0.071611
0.115	0.06755	0.056816	0.062917	0.062702	0.067554	0.056816	0.06752
0.115	0.06353	0.030526	0.058893	0.057056	0.06353	0.030526	0.06343
0.087	0.05951	0.007928	0.05487	0.050243	0.059507	0.007928	0.059339
0.401	0.35219	0.283925	0.361642	0.298315	0.352195	0.283925	0.352065
0.402	0.34805	0.290696	0.357499	0.296173	0.348052	0.290696	0.347974
0.399	0.34391	0.301161	0.353357	0.292864	0.34391	0.301161	0.343884
0.395	0.33977	0.31532	0.349214	0.288386	0.339767	0.31532	0.339793
0.398	0.33562	0.333172	0.345072	0.282741	0.335625	0.333172	0.335703
0.384	0.33148	0.354717	0.340929	0.275927	0.331482	0.354717	0.331612
0.291	0.31326	0.274909	0.322703	0.29418	0.313256	0.274909	0.313164
0.295	0.30913	0.276163	0.318576	0.292038	0.309129	0.276163	0.309073

0.299	0.305	0.28111	0.314448	0.288729	0.305001	0.28111	0.304983
0.296	0.30087	0.289751	0.310321	0.284251	0.300874	0.289751	0.300892
0.287	0.29675	0.302085	0.306193	0.278606	0.296746	0.302085	0.296802
0.261	0.29262	0.318112	0.302065	0.271792	0.292618	0.318112	0.292711
0.231	0.27432	0.262576	0.283765	0.281776	0.274318	0.262576	0.274262
0.229	0.27021	0.258312	0.279652	0.279634	0.270205	0.258312	0.270172
0.228	0.26609	0.257741	0.275539	0.276325	0.266092	0.257741	0.266081
0.224	0.26198	0.260864	0.271427	0.271847	0.26198	0.260864	0.261991
0.224	0.25787	0.26768	0.267314	0.266202	0.257867	0.26768	0.2579
0.201	0.25375	0.27819	0.263201	0.259388	0.253754	0.27819	0.25381
0.152	0.19644	0.227958	0.205888	0.232159	0.196441	0.227958	0.19646
0.149	0.19236	0.212658	0.201805	0.230018	0.192358	0.212658	0.192369
0.151	0.18828	0.201051	0.197722	0.226708	0.188275	0.201051	0.188279
0.152	0.18419	0.193138	0.193639	0.222231	0.184192	0.193138	0.184188
0.148	0.18011	0.188919	0.189556	0.216585	0.180109	0.188919	0.180098
0.135	0.17603	0.188393	0.185473	0.209772	0.176026	0.188393	0.176007
0.125	0.11856	0.180069	0.128011	0.149465	0.118564	0.180069	0.118657
0.128	0.11451	0.153734	0.123958	0.147323	0.114511	0.153734	0.114567
0.132	0.11046	0.131092	0.119905	0.144014	0.110458	0.131092	0.110476
0.124	0.1064	0.112143	0.115851	0.139536	0.106404	0.112143	0.106386
0.116	0.10235	0.096888	0.111798	0.133891	0.102351	0.096888	0.102295
0.109	0.0983	0.085327	0.107745	0.127077	0.098298	0.085327	0.098205
0.091	0.04069	0.118912	0.050134	0.033693	0.040687	0.118912	0.040855
0.088	0.03666	0.081541	0.046111	0.031551	0.036664	0.081541	0.036764
0.085	0.03264	0.047863	0.042087	0.028242	0.03264	0.047863	0.032674
0.086	0.02862	0.017879	0.038063	0.023764	0.028617	0.017879	0.028583
0.079	0.02459	-0.00841	0.03404	0.018119	0.024593	-0.00841	0.024493
0.063	0.02057	-0.03101	0.030016	0.011305	0.020569	-0.03101	0.020402
0.429	0.3545	0.286228	0.364002	0.300618	0.354498	0.286228	0.354368
0.428	0.35036	0.293	0.359859	0.298477	0.350356	0.293	0.350278
0.428	0.34621	0.303465	0.355717	0.295167	0.346213	0.303465	0.346187
0.427	0.34207	0.317623	0.351574	0.29069	0.342071	0.317623	0.342097
0.424	0.33793	0.335475	0.347432	0.285044	0.337928	0.335475	0.338006
0.414	0.33379	0.357021	0.343289	0.27823	0.333786	0.357021	0.333916
0.333	0.31556	0.277213	0.325063	0.296483	0.31556	0.277213	0.315467
0.336	0.31143	0.278466	0.320936	0.294342	0.311432	0.278466	0.311377
0.335	0.3073	0.283413	0.316808	0.291032	0.307305	0.283413	0.307286
0.331	0.30318	0.292054	0.312681	0.286555	0.303177	0.292054	0.303196
0.33	0.29905	0.304388	0.308553	0.280909	0.299049	0.304388	0.299105
0.298	0.29492	0.320416	0.304425	0.274096	0.294922	0.320416	0.295015
0.237	0.27662	0.26488	0.286125	0.284079	0.276622	0.26488	0.276566
0.237	0.27251	0.260615	0.282012	0.281938	0.272509	0.260615	0.272475
0.238	0.2684	0.260045	0.277899	0.278628	0.268396	0.260045	0.268385
0.239	0.26428	0.263167	0.273787	0.274151	0.264283	0.263167	0.264294
0.233	0.26017	0.269984	0.269674	0.268505	0.26017	0.269984	0.260204
0.211	0.25606	0.280494	0.265561	0.261692	0.256058	0.280494	0.256113
0.156	0.19874	0.230261	0.208248	0.234463	0.198745	0.230261	0.198763
0.156	0.19466	0.214961	0.204165	0.232321	0.194662	0.214961	0.194673

0.155	0.19058	0.203355	0.200082	0.229012	0.190579	0.203355	0.190582
0.152	0.1865	0.195442	0.195999	0.224534	0.186495	0.195442	0.186492
0.151	0.18241	0.191223	0.191916	0.218889	0.182412	0.191223	0.182401
0.137	0.17833	0.190697	0.187833	0.212075	0.178329	0.190697	0.178311
0.109	0.12087	0.182373	0.130371	0.151768	0.120868	0.182373	0.120961
0.107	0.11681	0.156037	0.126318	0.149627	0.116814	0.156037	0.11687
0.106	0.11276	0.133395	0.122265	0.146317	0.112761	0.133395	0.11278
0.106	0.10871	0.114447	0.118211	0.14184	0.108708	0.114447	0.108689
0.102	0.10465	0.099192	0.114158	0.136194	0.104654	0.099192	0.104599
0.088	0.1006	0.08763	0.110105	0.129381	0.100601	0.08763	0.100508
0.077	0.04299	0.121215	0.052494	0.035996	0.042991	0.121215	0.043158
0.075	0.03897	0.083844	0.048471	0.033855	0.038967	0.083844	0.039068
0.074	0.03494	0.050166	0.044447	0.030545	0.034944	0.050166	0.034977
0.071	0.03092	0.020182	0.040424	0.026068	0.03092	0.020182	0.030887
0.071	0.0269	-0.00611	0.0364	0.020422	0.026896	-0.00611	0.026796
0.052	0.02287	-0.02871	0.032376	0.013609	0.022873	-0.02871	0.022706
0.407	0.32777	0.259502	0.321654	0.273892	0.327772	0.259502	0.327642
0.405	0.32363	0.266274	0.317511	0.271751	0.32363	0.266274	0.323552
0.406	0.31949	0.276739	0.313369	0.268441	0.319487	0.276739	0.319461
0.401	0.31534	0.290897	0.309226	0.263964	0.315345	0.290897	0.315371
0.399	0.3112	0.308749	0.305084	0.258318	0.311202	0.308749	0.31128
0.38	0.30706	0.330295	0.300941	0.251504	0.30706	0.330295	0.30719
0.266	0.28883	0.250487	0.282715	0.269757	0.288834	0.250487	0.288741
0.268	0.28471	0.25174	0.278588	0.267616	0.284706	0.25174	0.284651
0.263	0.28058	0.256687	0.27446	0.264306	0.280579	0.256687	0.28056
0.257	0.27645	0.265328	0.270333	0.259829	0.276451	0.265328	0.27647
0.253	0.27232	0.277662	0.266205	0.254183	0.272323	0.277662	0.272379
0.244	0.2682	0.29369	0.262077	0.24737	0.268196	0.29369	0.268289
0.168	0.2499	0.238153	0.243777	0.257353	0.249895	0.238153	0.24984
0.163	0.24578	0.233889	0.239664	0.255212	0.245783	0.233889	0.245749
0.168	0.24167	0.233319	0.235551	0.251902	0.24167	0.233319	0.241659
0.162	0.23756	0.236441	0.231439	0.247425	0.237557	0.236441	0.237568
0.157	0.23344	0.243258	0.227326	0.241779	0.233444	0.243258	0.233478
0.143	0.22933	0.253768	0.223213	0.234966	0.229332	0.253768	0.229387
0.117	0.17202	0.203535	0.1659	0.207737	0.172019	0.203535	0.172037
0.116	0.16794	0.188235	0.161817	0.205595	0.167936	0.188235	0.167947
0.115	0.16385	0.176629	0.157734	0.202286	0.163852	0.176629	0.163856
0.109	0.15977	0.168716	0.153651	0.197808	0.159769	0.168716	0.159766
0.113	0.15569	0.164497	0.149568	0.192163	0.155686	0.164497	0.155675
0.105	0.1516	0.163971	0.145485	0.185349	0.151603	0.163971	0.151585
0.083	0.09414	0.155647	0.088023	0.125042	0.094142	0.155647	0.094235
0.086	0.09009	0.129311	0.08397	0.122901	0.090088	0.129311	0.090144
0.089	0.08604	0.106669	0.079917	0.119591	0.086035	0.106669	0.086054
0.078	0.08198	0.087721	0.075863	0.115114	0.081982	0.087721	0.081963
0.073	0.07793	0.072466	0.07181	0.109468	0.077928	0.072466	0.077873
0.059	0.07388	0.060904	0.067757	0.102655	0.073875	0.060904	0.073782
0.041	0.01626	0.094489	0.010146	0.00927	0.016265	0.094489	0.016432
0.039	0.01224	0.057118	0.006123	0.007129	0.012241	0.057118	0.012341

0.038	0.00822	0.02344	0.002099	0.003819	0.008218	0.02344	0.008251
0.035	0.00419	-0.00654	-0.00192	-0.00066	0.004194	-0.00654	0.004161
0.029	0.00017	-0.03283	-0.00595	-0.0063	0.00017	-0.03283	7.01E-05
0.013	-0.00385	-0.05543	-0.00997	-0.01312	-0.00385	-0.05543	-0.00402
0.443	0.33008	0.261806	0.324014	0.276196	0.330076	0.261806	0.329946
0.445	0.32593	0.268577	0.319872	0.274054	0.325933	0.268577	0.325855
0.447	0.32179	0.279042	0.315729	0.270745	0.321791	0.279042	0.321765
0.438	0.31765	0.293201	0.311587	0.266267	0.317648	0.293201	0.317674
0.443	0.31351	0.311053	0.307444	0.260622	0.313506	0.311053	0.313584
0.421	0.30936	0.332598	0.303302	0.253808	0.309363	0.332598	0.309493
0.253	0.29114	0.25279	0.285076	0.272061	0.291137	0.25279	0.291045
0.255	0.28701	0.254044	0.280948	0.269919	0.28701	0.254044	0.286954
0.257	0.28288	0.258991	0.27682	0.26661	0.282882	0.258991	0.282864
0.251	0.27875	0.267632	0.272693	0.262132	0.278754	0.267632	0.278773
0.252	0.27463	0.279966	0.268565	0.256487	0.274627	0.279966	0.274683
0.217	0.2705	0.295993	0.264437	0.249673	0.270499	0.295993	0.270592
0.163	0.2522	0.240457	0.246137	0.259657	0.252199	0.240457	0.252143
0.159	0.24809	0.236193	0.242024	0.257515	0.248086	0.236193	0.248053
0.162	0.24397	0.235622	0.237912	0.254206	0.243973	0.235622	0.243962
0.158	0.23986	0.238745	0.233799	0.249728	0.239861	0.238745	0.239872
0.155	0.23575	0.245561	0.229686	0.244083	0.235748	0.245561	0.235781
0.151	0.23164	0.256071	0.225573	0.237269	0.231635	0.256071	0.231691
0.112	0.17432	0.205838	0.16826	0.21004	0.174322	0.205838	0.174341
0.109	0.17024	0.190539	0.164177	0.207899	0.170239	0.190539	0.17025
0.113	0.16616	0.178932	0.160094	0.204589	0.166156	0.178932	0.16616
0.108	0.16207	0.171019	0.156011	0.200112	0.162073	0.171019	0.162069
0.101	0.15799	0.1668	0.151928	0.194466	0.15799	0.1668	0.157979
0.086	0.15391	0.166274	0.147845	0.187652	0.153907	0.166274	0.153888
0.076	0.09645	0.15795	0.090383	0.127346	0.096445	0.15795	0.096538
0.075	0.09239	0.131615	0.08633	0.125204	0.092392	0.131615	0.092448
0.071	0.08834	0.108973	0.082277	0.121895	0.088339	0.108973	0.088357
0.065	0.08429	0.090024	0.078223	0.117417	0.084285	0.090024	0.084267
0.062	0.08023	0.074769	0.07417	0.111772	0.080232	0.074769	0.080176
0.044	0.07618	0.063208	0.070117	0.104958	0.076179	0.063208	0.076086
0.028	0.01857	0.096793	0.012506	0.011574	0.018568	0.096793	0.018735
0.031	0.01454	0.059422	0.008483	0.009432	0.014545	0.059422	0.014645
0.021	0.01052	0.025744	0.004459	0.006123	0.010521	0.025744	0.010555
0.022	0.0065	-0.00424	0.000436	0.001645	0.006497	-0.00424	0.006464
0.021	0.00247	-0.03053	-0.00359	-0.004	0.002474	-0.03053	0.002374
0.007	-0.00155	-0.05313	-0.00761	-0.01081	-0.00155	-0.05313	-0.00172
0.411	0.39174	0.323469	0.387279	0.337858	0.391738	0.323469	0.391608
0.412	0.3876	0.33024	0.383137	0.335717	0.387596	0.33024	0.387518
0.411	0.38345	0.340705	0.378994	0.332407	0.383453	0.340705	0.383427
0.412	0.37931	0.354863	0.374852	0.32793	0.379311	0.354863	0.379337
0.411	0.37517	0.372715	0.370709	0.322284	0.375168	0.372715	0.375246
0.408	0.37103	0.394261	0.366567	0.315471	0.371026	0.394261	0.371156
0.319	0.3528	0.314453	0.348341	0.333723	0.3528	0.314453	0.352707
0.312	0.34867	0.315706	0.344213	0.331582	0.348672	0.315706	0.348617

0.318	0.34454	0.320653	0.340086	0.328273	0.344545	0.320653	0.344526
0.318	0.34042	0.329294	0.335958	0.323795	0.340417	0.329294	0.340436
0.311	0.33629	0.341628	0.33183	0.318149	0.336289	0.341628	0.336345
0.31	0.33216	0.357656	0.327703	0.311336	0.332162	0.357656	0.332255
0.271	0.31386	0.30212	0.309402	0.321319	0.313862	0.30212	0.313806
0.259	0.30975	0.297855	0.30529	0.319178	0.309749	0.297855	0.309715
0.264	0.30564	0.297285	0.301177	0.315868	0.305636	0.297285	0.305625
0.264	0.30152	0.300407	0.297064	0.311391	0.301523	0.300407	0.301534
0.265	0.29741	0.307224	0.292951	0.305745	0.29741	0.307224	0.297444
0.241	0.2933	0.317734	0.288839	0.298932	0.293298	0.317734	0.293353
0.198	0.23598	0.267501	0.231526	0.271703	0.235985	0.267501	0.236003
0.185	0.2319	0.252201	0.227442	0.269561	0.231902	0.252201	0.231913
0.186	0.22782	0.240595	0.223359	0.266252	0.227819	0.240595	0.227822
0.186	0.22374	0.232682	0.219276	0.261774	0.223736	0.232682	0.223732
0.186	0.21965	0.228463	0.215193	0.256129	0.219652	0.228463	0.219641
0.181	0.21557	0.227937	0.21111	0.249315	0.215569	0.227937	0.215551
0.151	0.15811	0.219613	0.153649	0.189008	0.158108	0.219613	0.158201
0.152	0.15405	0.193277	0.149595	0.186867	0.154054	0.193277	0.15411
0.15	0.15	0.170635	0.145542	0.183558	0.150001	0.170635	0.15002
0.151	0.14595	0.151687	0.141489	0.17908	0.145948	0.151687	0.145929
0.148	0.14189	0.136432	0.137435	0.173434	0.141894	0.136432	0.141839
0.141	0.13784	0.124871	0.133382	0.166621	0.137841	0.124871	0.137748
0.129	0.08023	0.158455	0.075772	0.073236	0.080231	0.158455	0.080398
0.119	0.07621	0.121084	0.071748	0.071095	0.076207	0.121084	0.076308
0.118	0.07218	0.087406	0.067725	0.067786	0.072184	0.087406	0.072217
0.119	0.06816	0.057422	0.063701	0.063308	0.06816	0.057422	0.068127
0.117	0.06414	0.031132	0.059677	0.057662	0.064136	0.031132	0.064036
0.079	0.06011	0.008535	0.055654	0.050849	0.060113	0.008535	0.059946
0.428	0.39404	0.325772	0.389639	0.340162	0.394042	0.325772	0.393912
0.436	0.3899	0.332543	0.385497	0.33802	0.389899	0.332543	0.389821
0.437	0.38576	0.343008	0.381354	0.334711	0.385757	0.343008	0.385731
0.436	0.38161	0.357167	0.377212	0.330233	0.381614	0.357167	0.38164
0.435	0.37747	0.375019	0.373069	0.324588	0.377472	0.375019	0.37755
0.432	0.37333	0.396564	0.368927	0.317774	0.373329	0.396564	0.373459
0.341	0.3551	0.316756	0.350701	0.336027	0.355103	0.316756	0.355011
0.351	0.35098	0.31801	0.346573	0.333886	0.350976	0.31801	0.35092
0.352	0.34685	0.322957	0.342446	0.330576	0.346848	0.322957	0.34683
0.352	0.34272	0.331598	0.338318	0.326098	0.342721	0.331598	0.342739
0.352	0.33859	0.343932	0.33419	0.320453	0.338593	0.343932	0.338649
0.334	0.33447	0.359959	0.330063	0.313639	0.334465	0.359959	0.334558
0.254	0.31617	0.304423	0.311762	0.323623	0.316165	0.304423	0.316109
0.269	0.31205	0.300159	0.30765	0.321481	0.312052	0.300159	0.312019
0.266	0.30794	0.299588	0.303537	0.318172	0.307939	0.299588	0.307928
0.265	0.30383	0.302711	0.299424	0.313694	0.303827	0.302711	0.303838
0.263	0.29971	0.309527	0.295311	0.308049	0.299714	0.309527	0.299747
0.233	0.2956	0.320037	0.291199	0.301235	0.295601	0.320037	0.295657
0.178	0.23829	0.269805	0.233886	0.274006	0.238288	0.269805	0.238307
0.186	0.23421	0.254505	0.229803	0.271865	0.234205	0.254505	0.234216

0.184	0.23012	0.242898	0.225719	0.268555	0.230122	0.242898	0.230126
0.184	0.22604	0.234985	0.221636	0.264078	0.226039	0.234985	0.226035
0.184	0.22196	0.230766	0.217553	0.258432	0.221956	0.230766	0.221945
0.152	0.21787	0.23024	0.21347	0.251619	0.217873	0.23024	0.217854
0.139	0.16041	0.221916	0.156009	0.191312	0.160411	0.221916	0.160504
0.142	0.15636	0.195581	0.151955	0.189171	0.156358	0.195581	0.156414
0.148	0.1523	0.172939	0.147902	0.185861	0.152305	0.172939	0.152323
0.143	0.14825	0.15399	0.143849	0.181383	0.148251	0.15399	0.148233
0.142	0.1442	0.138735	0.139795	0.175738	0.144198	0.138735	0.144142
0.122	0.14014	0.127174	0.135742	0.168924	0.140145	0.127174	0.140052
0.114	0.08253	0.160759	0.078132	0.07554	0.082534	0.160759	0.082702
0.122	0.07851	0.123388	0.074108	0.073399	0.078511	0.123388	0.078611
0.121	0.07449	0.08971	0.070085	0.070089	0.074487	0.08971	0.074521
0.121	0.07046	0.059726	0.066061	0.065611	0.070464	0.059726	0.07043
0.123	0.06644	0.033435	0.062037	0.059966	0.06644	0.033435	0.06634
0.077	0.06242	0.010838	0.058014	0.053152	0.062416	0.010838	0.062249
0.404	0.3551	0.286835	0.364786	0.301224	0.355105	0.286835	0.354975
0.403	0.35096	0.293606	0.360644	0.299083	0.350962	0.293606	0.350884
0.401	0.34682	0.304071	0.356501	0.295773	0.34682	0.304071	0.346794
0.402	0.34268	0.31823	0.352359	0.291296	0.342677	0.31823	0.342703
0.405	0.33853	0.336081	0.348216	0.28565	0.338535	0.336081	0.338613
0.388	0.33439	0.357627	0.344074	0.278837	0.334392	0.357627	0.334522
0.299	0.31617	0.277819	0.325848	0.29709	0.316166	0.277819	0.316073
0.298	0.31204	0.279073	0.32172	0.294948	0.312039	0.279073	0.311983
0.299	0.30791	0.28402	0.317592	0.291639	0.307911	0.28402	0.307892
0.297	0.30378	0.29266	0.313465	0.287161	0.303783	0.29266	0.303802
0.296	0.29966	0.304994	0.309337	0.281516	0.299656	0.304994	0.299711
0.255	0.29553	0.321022	0.305209	0.274702	0.295528	0.321022	0.295621
0.233	0.27723	0.265486	0.286909	0.284685	0.277228	0.265486	0.277172
0.233	0.27311	0.261222	0.282796	0.282544	0.273115	0.261222	0.273082
0.233	0.269	0.260651	0.278684	0.279235	0.269002	0.260651	0.268991
0.228	0.26489	0.263774	0.274571	0.274757	0.264889	0.263774	0.264901
0.227	0.26078	0.27059	0.270458	0.269111	0.260777	0.27059	0.26081
0.199	0.25666	0.2811	0.266345	0.262298	0.256664	0.2811	0.25672
0.155	0.19935	0.230867	0.209032	0.235069	0.199351	0.230867	0.199369
0.148	0.19527	0.215567	0.204949	0.232927	0.195268	0.215567	0.195279
0.148	0.19118	0.203961	0.200866	0.229618	0.191185	0.203961	0.191188
0.149	0.1871	0.196048	0.196783	0.22514	0.187102	0.196048	0.187098
0.152	0.18302	0.191829	0.1927	0.219495	0.183019	0.191829	0.183007
0.131	0.17894	0.191303	0.188617	0.212681	0.178936	0.191303	0.178917
0.121	0.12147	0.182979	0.131155	0.152375	0.121474	0.182979	0.121567
0.119	0.11742	0.156644	0.127102	0.150233	0.117421	0.156644	0.117476
0.126	0.11337	0.134002	0.123049	0.146924	0.113367	0.134002	0.113386
0.127	0.10931	0.115053	0.118995	0.142446	0.109314	0.115053	0.109295
0.122	0.10526	0.099798	0.114942	0.136801	0.105261	0.099798	0.105205
0.103	0.10121	0.088237	0.110889	0.129987	0.101207	0.088237	0.101114
0.088	0.0436	0.121821	0.053278	0.036603	0.043597	0.121821	0.043764
0.087	0.03957	0.08445	0.049255	0.034461	0.039573	0.08445	0.039674

0.086	0.03555	0.050773	0.045231	0.031152	0.03555	0.050773	0.035583
0.082	0.03153	0.020789	0.041208	0.026674	0.031526	0.020789	0.031493
0.077	0.0275	-0.0055	0.037184	0.021029	0.027503	-0.0055	0.027402
0.055	0.02348	-0.0281	0.033161	0.014215	0.023479	-0.0281	0.023312
0.436	0.35741	0.289138	0.367146	0.303528	0.357408	0.289138	0.357278
0.431	0.35327	0.29591	0.363004	0.301386	0.353266	0.29591	0.353188
0.432	0.34912	0.306375	0.358861	0.298077	0.349123	0.306375	0.349097
0.432	0.34498	0.320533	0.354719	0.293599	0.344981	0.320533	0.345007
0.431	0.34084	0.338385	0.350576	0.287954	0.340838	0.338385	0.340916
0.417	0.3367	0.35993	0.346434	0.28114	0.336696	0.35993	0.336826
0.341	0.31847	0.280122	0.328208	0.299393	0.31847	0.280122	0.318377
0.335	0.31434	0.281376	0.32408	0.297252	0.314342	0.281376	0.314286
0.334	0.31021	0.286323	0.319952	0.293942	0.310214	0.286323	0.310196
0.336	0.30609	0.294964	0.315825	0.289465	0.306087	0.294964	0.306105
0.332	0.30196	0.307298	0.311697	0.283819	0.301959	0.307298	0.302015
0.301	0.29783	0.323326	0.30757	0.277005	0.297831	0.323326	0.297924
0.244	0.27953	0.267789	0.289269	0.286989	0.279531	0.267789	0.279475
0.246	0.27542	0.263525	0.285156	0.284848	0.275418	0.263525	0.275385
0.245	0.27131	0.262954	0.281044	0.281538	0.271306	0.262954	0.271295
0.246	0.26719	0.266077	0.276931	0.277061	0.267193	0.266077	0.267204
0.244	0.26308	0.272893	0.272818	0.271415	0.26308	0.272893	0.263114
0.218	0.25897	0.283403	0.268705	0.264601	0.258967	0.283403	0.259023
0.162	0.20165	0.233171	0.211392	0.237372	0.201654	0.233171	0.201673
0.153	0.19757	0.217871	0.207309	0.235231	0.197571	0.217871	0.197582
0.152	0.19349	0.206264	0.203226	0.231921	0.193488	0.206264	0.193492
0.157	0.18941	0.198352	0.199143	0.227444	0.189405	0.198352	0.189401
0.158	0.18532	0.194132	0.19506	0.221798	0.185322	0.194132	0.185311
0.149	0.18124	0.193607	0.190977	0.214985	0.181239	0.193607	0.18122
0.111	0.12378	0.185283	0.133515	0.154678	0.123777	0.185283	0.12387
0.106	0.11972	0.158947	0.129462	0.152537	0.119724	0.158947	0.11978
0.104	0.11567	0.136305	0.125409	0.149227	0.115671	0.136305	0.115689
0.109	0.11162	0.117357	0.121356	0.14475	0.111617	0.117357	0.111599
0.104	0.10756	0.102102	0.117302	0.139104	0.107564	0.102102	0.107508
0.093	0.10351	0.09054	0.113249	0.13229	0.103511	0.09054	0.103418
0.072	0.0459	0.124125	0.055639	0.038906	0.0459	0.124125	0.046068
0.08	0.04188	0.086754	0.051615	0.036765	0.041877	0.086754	0.041977
0.071	0.03785	0.053076	0.047591	0.033455	0.037853	0.053076	0.037887
0.069	0.03383	0.023092	0.043568	0.028978	0.03383	0.023092	0.033796
0.071	0.02981	-0.0032	0.039544	0.023332	0.029806	-0.0032	0.029706
0.06	0.02578	-0.0258	0.035521	0.016518	0.025783	-0.0258	0.025615
0.423	0.33068	0.262412	0.324798	0.276802	0.330682	0.262412	0.330552
0.419	0.32654	0.269184	0.320656	0.27466	0.32654	0.269184	0.326462
0.411	0.3224	0.279649	0.316513	0.271351	0.322397	0.279649	0.322371
0.408	0.31825	0.293807	0.312371	0.266873	0.318255	0.293807	0.318281
0.402	0.31411	0.311659	0.308228	0.261228	0.314112	0.311659	0.31419
0.395	0.30997	0.333204	0.304086	0.254414	0.30997	0.333204	0.3101
0.272	0.29174	0.253396	0.28586	0.272667	0.291744	0.253396	0.291651
0.269	0.28762	0.25465	0.281732	0.270526	0.287616	0.25465	0.28756

0.271	0.28349	0.259597	0.277604	0.267216	0.283488	0.259597	0.28347
0.266	0.27936	0.268238	0.273477	0.262739	0.279361	0.268238	0.279379
0.261	0.27523	0.280572	0.269349	0.257093	0.275233	0.280572	0.275289
0.253	0.27111	0.2966	0.265222	0.250279	0.271105	0.2966	0.271198
0.165	0.25281	0.241063	0.246921	0.260263	0.252805	0.241063	0.252749
0.166	0.24869	0.236799	0.242809	0.258122	0.248692	0.236799	0.248659
0.177	0.24458	0.236228	0.238696	0.254812	0.24458	0.236228	0.244568
0.169	0.24047	0.239351	0.234583	0.250334	0.240467	0.239351	0.240478
0.163	0.23635	0.246167	0.23047	0.244689	0.236354	0.246167	0.236388
0.152	0.23224	0.256677	0.226357	0.237875	0.232241	0.256677	0.232297
0.122	0.17493	0.206445	0.169044	0.210646	0.174928	0.206445	0.174947
0.115	0.17085	0.191145	0.164961	0.208505	0.170845	0.191145	0.170856
0.116	0.16676	0.179538	0.160878	0.205195	0.166762	0.179538	0.166766
0.117	0.16268	0.171626	0.156795	0.200718	0.162679	0.171626	0.162675
0.112	0.1586	0.167406	0.152712	0.195072	0.158596	0.167406	0.158585
0.106	0.15451	0.16688	0.148629	0.188259	0.154513	0.16688	0.154494
0.088	0.09705	0.158557	0.091167	0.127952	0.097051	0.158557	0.097144
0.083	0.093	0.132221	0.087114	0.125811	0.092998	0.132221	0.093054
0.085	0.08894	0.109579	0.083061	0.122501	0.088945	0.109579	0.088963
0.083	0.08489	0.090631	0.079008	0.118024	0.084891	0.090631	0.084873
0.082	0.08084	0.075376	0.074954	0.112378	0.080838	0.075376	0.080782
0.068	0.07678	0.063814	0.070901	0.105564	0.076785	0.063814	0.076692
0.038	0.01917	0.097399	0.013291	0.01218	0.019174	0.097399	0.019342
0.037	0.01515	0.060028	0.009267	0.010039	0.015151	0.060028	0.015251
0.035	0.01113	0.02635	0.005243	0.006729	0.011127	0.02635	0.011161
0.036	0.0071	-0.00363	0.00122	0.002252	0.007104	-0.00363	0.00707
0.022	0.00308	-0.02992	-0.0028	-0.00339	0.00308	-0.02992	0.00298
0.017	-0.00094	-0.05252	-0.00683	-0.01021	-0.00094	-0.05252	-0.00111
0.441	0.33299	0.264716	0.327158	0.279105	0.332986	0.264716	0.332855
0.439	0.32884	0.271487	0.323016	0.276964	0.328843	0.271487	0.328765
0.445	0.3247	0.281952	0.318873	0.273654	0.324701	0.281952	0.324675
0.444	0.32056	0.29611	0.314731	0.269177	0.320558	0.29611	0.320584
0.442	0.31642	0.313962	0.310588	0.263531	0.316416	0.313962	0.316494
0.436	0.31227	0.335508	0.306446	0.256718	0.312273	0.335508	0.312403
0.269	0.29405	0.2557	0.28822	0.274971	0.294047	0.2557	0.293954
0.268	0.28992	0.256953	0.284092	0.272829	0.289919	0.256953	0.289864
0.263	0.28579	0.261901	0.279965	0.26952	0.285792	0.261901	0.285773
0.264	0.28166	0.270541	0.275837	0.265042	0.281664	0.270541	0.281683
0.261	0.27754	0.282875	0.271709	0.259397	0.277537	0.282875	0.277592
0.232	0.27341	0.298903	0.267582	0.252583	0.273409	0.298903	0.273502
0.171	0.25511	0.243367	0.249281	0.262566	0.255109	0.243367	0.255053
0.178	0.251	0.239102	0.245169	0.260425	0.250996	0.239102	0.250962
0.172	0.24688	0.238532	0.241056	0.257116	0.246883	0.238532	0.246872
0.169	0.24277	0.241655	0.236943	0.252638	0.24277	0.241655	0.242781
0.168	0.23866	0.248471	0.23283	0.246992	0.238658	0.248471	0.238691
0.163	0.23454	0.258981	0.228717	0.240179	0.234545	0.258981	0.234601
0.111	0.17723	0.208748	0.171404	0.21295	0.177232	0.208748	0.17725
0.119	0.17315	0.193448	0.167321	0.210808	0.173149	0.193448	0.17316

0.115	0.16907	0.181842	0.163238	0.207499	0.169066	0.181842	0.169069
0.115	0.16498	0.173929	0.159155	0.203021	0.164983	0.173929	0.164979
0.114	0.1609	0.16971	0.155072	0.197376	0.1609	0.16971	0.160888
0.095	0.15682	0.169184	0.150989	0.190562	0.156817	0.169184	0.156798
0.077	0.09935	0.16086	0.093528	0.130256	0.099355	0.16086	0.099448
0.074	0.0953	0.134525	0.089474	0.128114	0.095302	0.134525	0.095357
0.077	0.09125	0.111883	0.085421	0.124805	0.091248	0.111883	0.091267
0.076	0.08719	0.092934	0.081368	0.120327	0.087195	0.092934	0.087176
0.068	0.08314	0.077679	0.077314	0.114682	0.083142	0.077679	0.083086
0.059	0.07909	0.066118	0.073261	0.107868	0.079088	0.066118	0.078995
0.027	0.02148	0.099702	0.015651	0.014484	0.021478	0.099702	0.021645
0.026	0.01745	0.062331	0.011627	0.012342	0.017454	0.062331	0.017555
0.025	0.01343	0.028654	0.007603	0.009033	0.013431	0.028654	0.013464
0.022	0.00941	-0.00133	0.00358	0.004555	0.009407	-0.00133	0.009374
0.019	0.00538	-0.02762	-0.00044	-0.00109	0.005384	-0.02762	0.005283
0.009	0.00136	-0.05022	-0.00447	-0.0079	0.00136	-0.05022	0.001193
0.415	0.39465	0.326378	0.390424	0.340768	0.394648	0.326378	0.394518
0.411	0.39051	0.33315	0.386281	0.338626	0.390506	0.33315	0.390428
0.412	0.38636	0.343615	0.382139	0.335317	0.386363	0.343615	0.386337
0.411	0.38222	0.357773	0.377996	0.330839	0.382221	0.357773	0.382247
0.408	0.37808	0.375625	0.373854	0.325194	0.378078	0.375625	0.378156
0.407	0.37394	0.39717	0.369711	0.31838	0.373936	0.39717	0.374066
0.317	0.35571	0.317362	0.351485	0.336633	0.35571	0.317362	0.355617
0.316	0.35158	0.318616	0.347357	0.334492	0.351582	0.318616	0.351526
0.321	0.34745	0.323563	0.34323	0.331182	0.347454	0.323563	0.347436
0.318	0.34333	0.332204	0.339102	0.326705	0.343327	0.332204	0.343345
0.322	0.3392	0.344538	0.334975	0.321059	0.339199	0.344538	0.339255
0.287	0.33507	0.360566	0.330847	0.314245	0.335072	0.360566	0.335164
0.265	0.31677	0.305029	0.312547	0.324229	0.316771	0.305029	0.316716
0.263	0.31266	0.300765	0.308434	0.322088	0.312658	0.300765	0.312625
0.261	0.30855	0.300194	0.304321	0.318778	0.308546	0.300194	0.308535
0.261	0.30443	0.303317	0.300208	0.314301	0.304433	0.303317	0.304444
0.259	0.30032	0.310133	0.296096	0.308655	0.30032	0.310133	0.300354
0.223	0.29621	0.320643	0.291983	0.301841	0.296207	0.320643	0.296263
0.197	0.23889	0.270411	0.23467	0.274612	0.238894	0.270411	0.238913
0.196	0.23481	0.255111	0.230587	0.272471	0.234811	0.255111	0.234822
0.197	0.23073	0.243505	0.226504	0.269162	0.230728	0.243505	0.230732
0.201	0.22665	0.235592	0.222421	0.264684	0.226645	0.235592	0.226642
0.195	0.22256	0.231372	0.218338	0.259038	0.222562	0.231372	0.222551
0.157	0.21848	0.230847	0.214255	0.252225	0.218479	0.230847	0.218461
0.151	0.16102	0.222523	0.156793	0.191918	0.161017	0.222523	0.16111
0.15	0.15696	0.196187	0.15274	0.189777	0.156964	0.196187	0.15702
0.152	0.15291	0.173545	0.148686	0.186467	0.152911	0.173545	0.152929
0.151	0.14886	0.154597	0.144633	0.18199	0.148857	0.154597	0.148839
0.153	0.1448	0.139342	0.14058	0.176344	0.144804	0.139342	0.144748
0.134	0.14075	0.12778	0.136526	0.16953	0.140751	0.12778	0.140658
0.119	0.08314	0.161365	0.078916	0.076146	0.083141	0.161365	0.083308
0.118	0.07912	0.123994	0.074892	0.074005	0.079117	0.123994	0.079217

0.114	0.07509	0.090316	0.070869	0.070695	0.075093	0.090316	0.075127
0.114	0.07107	0.060332	0.066845	0.066218	0.07107	0.060332	0.071036
0.113	0.06705	0.034041	0.062822	0.060572	0.067046	0.034041	0.066946
0.088	0.06302	0.011444	0.058798	0.053758	0.063023	0.011444	0.062855
0.431	0.39695	0.328682	0.392784	0.343071	0.396952	0.328682	0.396822
0.433	0.39281	0.335453	0.388641	0.34093	0.392809	0.335453	0.392731
0.432	0.38867	0.345918	0.384499	0.33762	0.388667	0.345918	0.388641
0.431	0.38452	0.360077	0.380356	0.333143	0.384524	0.360077	0.38455
0.43	0.38038	0.377928	0.376214	0.327497	0.380382	0.377928	0.38046
0.416	0.37624	0.399474	0.372071	0.320684	0.376239	0.399474	0.376369
0.351	0.35801	0.319666	0.353845	0.338937	0.358013	0.319666	0.35792
0.348	0.35389	0.32092	0.349718	0.336795	0.353886	0.32092	0.35383
0.352	0.34976	0.325867	0.34559	0.333486	0.349758	0.325867	0.349739
0.351	0.34563	0.334507	0.341462	0.329008	0.34563	0.334507	0.345649
0.345	0.3415	0.346841	0.337335	0.323363	0.341503	0.346841	0.341558
0.315	0.33738	0.362869	0.333207	0.316549	0.337375	0.362869	0.337468
0.275	0.31907	0.307333	0.314907	0.326532	0.319075	0.307333	0.319019
0.276	0.31496	0.303069	0.310794	0.324391	0.314962	0.303069	0.314929
0.274	0.31085	0.302498	0.306681	0.321082	0.310849	0.302498	0.310838
0.268	0.30674	0.305621	0.302568	0.316604	0.306736	0.305621	0.306748
0.265	0.30262	0.312437	0.298456	0.310958	0.302624	0.312437	0.302657
0.218	0.29851	0.322947	0.294343	0.304145	0.298511	0.322947	0.298567
0.191	0.2412	0.272714	0.23703	0.276916	0.241198	0.272714	0.241216
0.192	0.23711	0.257414	0.232947	0.274774	0.237115	0.257414	0.237126
0.193	0.23303	0.245808	0.228864	0.271465	0.233032	0.245808	0.233035
0.191	0.22895	0.237895	0.224781	0.266987	0.228949	0.237895	0.228945
0.185	0.22487	0.233676	0.220698	0.261342	0.224866	0.233676	0.224855
0.155	0.22078	0.23315	0.216615	0.254528	0.220783	0.23315	0.220764
0.147	0.16332	0.224826	0.159153	0.194222	0.163321	0.224826	0.163414
0.148	0.15927	0.198491	0.1551	0.19208	0.159268	0.198491	0.159323
0.149	0.15521	0.175849	0.151046	0.188771	0.155214	0.175849	0.155233
0.151	0.15116	0.1569	0.146993	0.184293	0.151161	0.1569	0.151142
0.145	0.14711	0.141645	0.14294	0.178648	0.147108	0.141645	0.147052
0.132	0.14305	0.130084	0.138886	0.171834	0.143054	0.130084	0.142961
0.119	0.08544	0.163668	0.081276	0.07845	0.085444	0.163668	0.085611
0.118	0.08142	0.126297	0.077252	0.076308	0.08142	0.126297	0.081521
0.115	0.0774	0.09262	0.073229	0.072999	0.077397	0.09262	0.07743
0.111	0.07337	0.062636	0.069205	0.068521	0.073373	0.062636	0.07334
0.101	0.06935	0.036345	0.065182	0.062876	0.06935	0.036345	0.069249
0.086	0.06533	0.013748	0.061158	0.056062	0.065326	0.013748	0.065159
0.41	0.35801	0.289744	0.36793	0.304134	0.358014	0.289744	0.357884
0.408	0.35387	0.296516	0.363788	0.301993	0.353872	0.296516	0.353794
0.409	0.34973	0.306981	0.359645	0.298683	0.349729	0.306981	0.349703
0.408	0.34559	0.321139	0.355503	0.294206	0.345587	0.321139	0.345613
0.405	0.34144	0.338991	0.35136	0.28856	0.341444	0.338991	0.341522
0.391	0.3373	0.360537	0.347218	0.281746	0.337302	0.360537	0.337432
0.299	0.31908	0.280729	0.328992	0.299999	0.319076	0.280729	0.318983
0.301	0.31495	0.281982	0.324864	0.297858	0.314948	0.281982	0.314893

0.295	0.31082	0.286929	0.320737	0.294548	0.310821	0.286929	0.310802
0.296	0.30669	0.29557	0.316609	0.290071	0.306693	0.29557	0.306712
0.289	0.30257	0.307904	0.312481	0.284425	0.302565	0.307904	0.302621
0.265	0.29844	0.323932	0.308354	0.277612	0.298438	0.323932	0.298531
0.235	0.28014	0.268395	0.290053	0.287595	0.280137	0.268395	0.280082
0.235	0.27602	0.264131	0.285941	0.285454	0.276025	0.264131	0.275991
0.231	0.27191	0.263561	0.281828	0.282144	0.271912	0.263561	0.271901
0.229	0.2678	0.266683	0.277715	0.277667	0.267799	0.266683	0.26781
0.227	0.26369	0.2735	0.273602	0.272021	0.263686	0.2735	0.26372
0.207	0.25957	0.284009	0.26949	0.265208	0.259574	0.284009	0.259629
0.159	0.20226	0.233777	0.212177	0.237979	0.202261	0.233777	0.202279
0.158	0.19818	0.218477	0.208093	0.235837	0.198177	0.218477	0.198189
0.156	0.19409	0.206871	0.20401	0.232528	0.194094	0.206871	0.194098
0.157	0.19001	0.198958	0.199927	0.22805	0.190011	0.198958	0.190008
0.151	0.18593	0.194739	0.195844	0.222405	0.185928	0.194739	0.185917
0.131	0.18185	0.194213	0.191761	0.215591	0.181845	0.194213	0.181827
0.129	0.12438	0.185889	0.1343	0.155284	0.124384	0.185889	0.124477
0.131	0.12033	0.159553	0.130246	0.153143	0.12033	0.159553	0.120386
0.128	0.11628	0.136911	0.126193	0.149833	0.116277	0.136911	0.116296
0.127	0.11222	0.117963	0.12214	0.145356	0.112224	0.117963	0.112205
0.125	0.10817	0.102708	0.118086	0.13971	0.10817	0.102708	0.108115
0.104	0.10412	0.091146	0.114033	0.132897	0.104117	0.091146	0.104024
0.088	0.04651	0.124731	0.056423	0.039512	0.046507	0.124731	0.046674
0.085	0.04248	0.08736	0.052399	0.037371	0.042483	0.08736	0.042583
0.084	0.03846	0.053682	0.048376	0.034061	0.03846	0.053682	0.038493
0.081	0.03444	0.023698	0.044352	0.029584	0.034436	0.023698	0.034403
0.08	0.03041	-0.00259	0.040328	0.023938	0.030412	-0.00259	0.030312
0.061	0.02639	-0.02519	0.036305	0.017125	0.026389	-0.02519	0.026222
0.43	0.36032	0.292048	0.37029	0.306438	0.360318	0.292048	0.360188
0.43	0.35618	0.298819	0.366148	0.304296	0.356175	0.298819	0.356097
0.431	0.35203	0.309284	0.362005	0.300987	0.352033	0.309284	0.352007
0.429	0.34789	0.323443	0.357863	0.296509	0.34789	0.323443	0.347916
0.425	0.34375	0.341295	0.35372	0.290863	0.343748	0.341295	0.343826
0.409	0.33961	0.36284	0.349578	0.28405	0.339605	0.36284	0.339735
0.339	0.32138	0.283032	0.331352	0.302303	0.321379	0.283032	0.321286
0.338	0.31725	0.284286	0.327224	0.300161	0.317252	0.284286	0.317196
0.337	0.31312	0.289233	0.323097	0.296852	0.313124	0.289233	0.313106
0.336	0.309	0.297873	0.318969	0.292374	0.308996	0.297873	0.309015
0.334	0.30487	0.310208	0.314841	0.286729	0.304869	0.310208	0.304925
0.305	0.30074	0.326235	0.310714	0.279915	0.300741	0.326235	0.300834
0.242	0.28244	0.270699	0.292414	0.289899	0.282441	0.270699	0.282385
0.243	0.27833	0.266435	0.288301	0.287757	0.278328	0.266435	0.278295
0.245	0.27422	0.265864	0.284188	0.284448	0.274215	0.265864	0.274204
0.241	0.2701	0.268987	0.280075	0.27997	0.270103	0.268987	0.270114
0.239	0.26599	0.275803	0.275962	0.274325	0.26599	0.275803	0.266023
0.218	0.26188	0.286313	0.27185	0.267511	0.261877	0.286313	0.261933
0.162	0.20456	0.23608	0.214537	0.240282	0.204564	0.23608	0.204583
0.161	0.20048	0.220781	0.210454	0.238141	0.200481	0.220781	0.200492

0.159	0.1964	0.209174	0.206371	0.234831	0.196398	0.209174	0.196402
0.157	0.19231	0.201261	0.202287	0.230354	0.192315	0.201261	0.192311
0.156	0.18823	0.197042	0.198204	0.224708	0.188232	0.197042	0.188221
0.141	0.18415	0.196516	0.194121	0.217894	0.184149	0.196516	0.18413
0.116	0.12669	0.188192	0.13666	0.157588	0.126687	0.188192	0.12678
0.117	0.12263	0.161857	0.132606	0.155446	0.122634	0.161857	0.12269
0.117	0.11858	0.139215	0.128553	0.152137	0.11858	0.139215	0.118599
0.115	0.11453	0.120266	0.1245	0.147659	0.114527	0.120266	0.114509
0.118	0.11047	0.105011	0.120446	0.142014	0.110474	0.105011	0.110418
0.095	0.10642	0.09345	0.116393	0.1352	0.106421	0.09345	0.106328
0.081	0.04881	0.127035	0.058783	0.041816	0.04881	0.127035	0.048977
0.075	0.04479	0.089663	0.054759	0.039674	0.044787	0.089663	0.044887
0.08	0.04076	0.055986	0.050736	0.036365	0.040763	0.055986	0.040796
0.081	0.03674	0.026002	0.046712	0.031887	0.036739	0.026002	0.036706
0.075	0.03272	-0.00029	0.042688	0.026242	0.032716	-0.00029	0.032616
0.049	0.02869	-0.02289	0.038665	0.019428	0.028692	-0.02289	0.028525
0.408	0.33359	0.265322	0.327942	0.279711	0.333592	0.265322	0.333462
0.41	0.32945	0.272093	0.3238	0.27757	0.329449	0.272093	0.329371
0.411	0.32531	0.282558	0.319657	0.274261	0.325307	0.282558	0.325281
0.408	0.32116	0.296717	0.315515	0.269783	0.321164	0.296717	0.32119
0.388	0.31702	0.314569	0.311372	0.264137	0.317022	0.314569	0.3171
0.365	0.31288	0.336114	0.30723	0.257324	0.312879	0.336114	0.313009
0.271	0.29465	0.256306	0.289004	0.275577	0.294653	0.256306	0.29456
0.277	0.29053	0.25756	0.284876	0.273435	0.290526	0.25756	0.29047
0.275	0.2864	0.262507	0.280749	0.270126	0.286398	0.262507	0.286379
0.276	0.28227	0.271147	0.276621	0.265648	0.28227	0.271147	0.282289
0.253	0.27814	0.283482	0.272493	0.260003	0.278143	0.283482	0.278199
0.223	0.27402	0.299509	0.268366	0.253189	0.274015	0.299509	0.274108
0.171	0.25571	0.243973	0.250066	0.263173	0.255715	0.243973	0.255659
0.175	0.2516	0.239709	0.245953	0.261031	0.251602	0.239709	0.251569
0.176	0.24749	0.239138	0.24184	0.257722	0.247489	0.239138	0.247478
0.176	0.24338	0.242261	0.237727	0.253244	0.243377	0.242261	0.243388
0.177	0.23926	0.249077	0.233614	0.247599	0.239264	0.249077	0.239297
0.142	0.23515	0.259587	0.229502	0.240785	0.235151	0.259587	0.235207
0.118	0.17784	0.209354	0.172189	0.213556	0.177838	0.209354	0.177857
0.119	0.17375	0.194054	0.168106	0.211415	0.173755	0.194054	0.173766
0.121	0.16967	0.182448	0.164023	0.208105	0.169672	0.182448	0.169676
0.123	0.16559	0.174535	0.159939	0.203628	0.165589	0.174535	0.165585
0.121	0.16151	0.170316	0.155856	0.197982	0.161506	0.170316	0.161495
0.098	0.15742	0.16979	0.151773	0.191168	0.157423	0.16979	0.157404
0.086	0.09996	0.161466	0.094312	0.130862	0.099961	0.161466	0.100054
0.083	0.09591	0.135131	0.090258	0.12872	0.095908	0.135131	0.095963
0.081	0.09185	0.112489	0.086205	0.125411	0.091854	0.112489	0.091873
0.078	0.0878	0.09354	0.082152	0.120933	0.087801	0.09354	0.087783
0.082	0.08375	0.078285	0.078098	0.115288	0.083748	0.078285	0.083692
0.063	0.07969	0.066724	0.074045	0.108474	0.079694	0.066724	0.079602
0.045	0.02208	0.100309	0.016435	0.01509	0.022084	0.100309	0.022251
0.043	0.01806	0.062937	0.012411	0.012948	0.018061	0.062937	0.018161

0.041	0.01404	0.02926	0.008388	0.009639	0.014037	0.02926	0.01407
0.039	0.01001	-0.00072	0.004364	0.005161	0.010013	-0.00072	0.00998
0.041	0.00599	-0.02701	0.00034	-0.00048	0.00599	-0.02701	0.005889
0.011	0.00197	-0.04961	-0.00368	-0.0073	0.001966	-0.04961	0.001799
0.44	0.3359	0.267625	0.330302	0.282015	0.335895	0.267625	0.335765
0.439	0.33175	0.274397	0.32616	0.279874	0.331753	0.274397	0.331675
0.43	0.32761	0.284862	0.322017	0.276564	0.32761	0.284862	0.327584
0.429	0.32347	0.29902	0.317875	0.272087	0.323468	0.29902	0.323494
0.418	0.31933	0.316872	0.313732	0.266441	0.319325	0.316872	0.319403
0.388	0.31518	0.338418	0.30959	0.259627	0.315183	0.338418	0.315313
0.266	0.29696	0.25861	0.291364	0.27788	0.296957	0.25861	0.296864
0.271	0.29283	0.259863	0.287236	0.275739	0.292829	0.259863	0.292773
0.272	0.2887	0.26481	0.283109	0.272429	0.288702	0.26481	0.288683
0.269	0.28457	0.273451	0.278981	0.267952	0.284574	0.273451	0.284592
0.248	0.28045	0.285785	0.274853	0.262306	0.280446	0.285785	0.280502
0.211	0.27632	0.301813	0.270726	0.255493	0.276319	0.301813	0.276412
0.171	0.25802	0.246276	0.252426	0.265476	0.258018	0.246276	0.257963
0.172	0.25391	0.242012	0.248313	0.263335	0.253906	0.242012	0.253872
0.169	0.24979	0.241441	0.2442	0.260025	0.249793	0.241441	0.249782
0.171	0.24568	0.244564	0.240087	0.255548	0.24568	0.244564	0.245691
0.172	0.24157	0.251381	0.235974	0.249902	0.241567	0.251381	0.241601
0.146	0.23745	0.26189	0.231862	0.243088	0.237454	0.26189	0.23751
0.113	0.18014	0.211658	0.174549	0.21586	0.180141	0.211658	0.18016
0.115	0.17606	0.196358	0.170466	0.213718	0.176058	0.196358	0.17607
0.116	0.17198	0.184752	0.166383	0.210409	0.171975	0.184752	0.171979
0.118	0.16789	0.176839	0.1623	0.205931	0.167892	0.176839	0.167889
0.119	0.16381	0.172619	0.158216	0.200286	0.163809	0.172619	0.163798
0.091	0.15973	0.172094	0.154133	0.193472	0.159726	0.172094	0.159708
0.077	0.10226	0.16377	0.096672	0.133165	0.102265	0.16377	0.102357
0.078	0.09821	0.137434	0.092618	0.131024	0.098211	0.137434	0.098267
0.078	0.09416	0.114792	0.088565	0.127714	0.094158	0.114792	0.094176
0.078	0.0901	0.095844	0.084512	0.123237	0.090105	0.095844	0.090086
0.079	0.08605	0.080589	0.080459	0.117591	0.086051	0.080589	0.085996
0.033	0.082	0.069027	0.076405	0.110778	0.081998	0.069027	0.081905
0.035	0.02439	0.102612	0.018795	0.017393	0.024388	0.102612	0.024555
0.033	0.02036	0.065241	0.014771	0.015252	0.020364	0.065241	0.020464
0.031	0.01634	0.031563	0.010748	0.011942	0.01634	0.031563	0.016374
0.031	0.01232	0.001579	0.006724	0.007465	0.012317	0.001579	0.012283
0.031	0.00829	-0.02471	0.002701	0.001819	0.008293	-0.02471	0.008193
0.006	0.00427	-0.04731	-0.00132	-0.00499	0.00427	-0.04731	0.004102
0.413	0.39644	0.328169	0.392358	0.342558	0.396439	0.328169	0.396309
0.418	0.3923	0.33494	0.388216	0.340417	0.392296	0.33494	0.392218
0.417	0.38815	0.345405	0.384073	0.337108	0.388154	0.345405	0.388128
0.418	0.38401	0.359564	0.379931	0.33263	0.384011	0.359564	0.384037
0.416	0.37987	0.377416	0.375788	0.326984	0.379869	0.377416	0.379947
0.411	0.37573	0.398961	0.371646	0.320171	0.375726	0.398961	0.375856
0.325	0.3575	0.319153	0.35342	0.338424	0.3575	0.319153	0.357407
0.326	0.35337	0.320407	0.349292	0.336282	0.353373	0.320407	0.353317

0.321	0.34925	0.325354	0.345165	0.332973	0.349245	0.325354	0.349226
0.324	0.34512	0.333994	0.341037	0.328495	0.345117	0.333994	0.345136
0.319	0.34099	0.346329	0.336909	0.32285	0.34099	0.346329	0.341045
0.295	0.33686	0.362356	0.332782	0.316036	0.336862	0.362356	0.336955
0.265	0.31856	0.30682	0.314482	0.32602	0.318562	0.30682	0.318506
0.261	0.31445	0.302556	0.310369	0.323878	0.314449	0.302556	0.314416
0.262	0.31034	0.301985	0.306256	0.320569	0.310336	0.301985	0.310325
0.263	0.30622	0.305108	0.302143	0.316091	0.306224	0.305108	0.306235
0.261	0.30211	0.311924	0.29803	0.310446	0.302111	0.311924	0.302144
0.247	0.298	0.322434	0.293918	0.303632	0.297998	0.322434	0.298054
0.201	0.24068	0.272201	0.236605	0.276403	0.240685	0.272201	0.240704
0.202	0.2366	0.256901	0.232522	0.274262	0.236602	0.256901	0.236613
0.199	0.23252	0.245295	0.228439	0.270952	0.232519	0.245295	0.232523
0.186	0.22844	0.237382	0.224356	0.266475	0.228436	0.237382	0.228432
0.184	0.22435	0.233163	0.220272	0.260829	0.224353	0.233163	0.224342
0.159	0.22027	0.232637	0.216189	0.254015	0.22027	0.232637	0.220251
0.156	0.16281	0.224313	0.158728	0.193709	0.162808	0.224313	0.162901
0.157	0.15875	0.197978	0.154674	0.191567	0.158755	0.197978	0.15881
0.154	0.1547	0.175336	0.150621	0.188258	0.154701	0.175336	0.15472
0.153	0.15065	0.156387	0.146568	0.18378	0.150648	0.156387	0.150629
0.152	0.14659	0.141132	0.142514	0.178135	0.146595	0.141132	0.146539
0.136	0.14254	0.129571	0.138461	0.171321	0.142541	0.129571	0.142449
0.115	0.08493	0.163156	0.080851	0.077937	0.084931	0.163156	0.085098
0.114	0.08091	0.125784	0.076827	0.075795	0.080908	0.125784	0.081008
0.116	0.07688	0.092107	0.072804	0.072486	0.076884	0.092107	0.076917
0.113	0.07286	0.062123	0.06878	0.068008	0.07286	0.062123	0.072827
0.115	0.06884	0.035832	0.064756	0.062363	0.068837	0.035832	0.068736
0.094	0.06481	0.013235	0.060733	0.055549	0.064813	0.013235	0.064646
0.431	0.39874	0.330472	0.394719	0.344862	0.398742	0.330472	0.398612
0.43	0.3946	0.337244	0.390576	0.342721	0.3946	0.337244	0.394522
0.43	0.39046	0.347709	0.386434	0.339411	0.390457	0.347709	0.390431
0.431	0.38631	0.361867	0.382291	0.334933	0.386315	0.361867	0.386341
0.427	0.38217	0.379719	0.378149	0.329288	0.382172	0.379719	0.38225
0.411	0.37803	0.401265	0.374006	0.322474	0.37803	0.401265	0.37816
0.352	0.3598	0.321457	0.35578	0.340727	0.359804	0.321457	0.359711
0.351	0.35568	0.32271	0.351652	0.338586	0.355676	0.32271	0.35562
0.348	0.35155	0.327657	0.347525	0.335276	0.351548	0.327657	0.35153
0.349	0.34742	0.336298	0.343397	0.330799	0.347421	0.336298	0.347439
0.351	0.34329	0.348632	0.33927	0.325153	0.343293	0.348632	0.343349
0.314	0.33917	0.36466	0.335142	0.31834	0.339166	0.36466	0.339258
0.261	0.32087	0.309123	0.316842	0.328323	0.320865	0.309123	0.32081
0.26	0.31675	0.304859	0.312729	0.326182	0.316753	0.304859	0.316719
0.259	0.31264	0.304288	0.308616	0.322872	0.31264	0.304288	0.312629
0.263	0.30853	0.307411	0.304503	0.318395	0.308527	0.307411	0.308538
0.265	0.30441	0.314228	0.300391	0.312749	0.304414	0.314228	0.304448
0.221	0.3003	0.324737	0.296278	0.305935	0.300301	0.324737	0.300357
0.192	0.24299	0.274505	0.238965	0.278707	0.242988	0.274505	0.243007
0.193	0.23891	0.259205	0.234882	0.276565	0.238905	0.259205	0.238917

0.192	0.23482	0.247599	0.230799	0.273256	0.234822	0.247599	0.234826
0.192	0.23074	0.239686	0.226716	0.268778	0.230739	0.239686	0.230736
0.191	0.22666	0.235466	0.222633	0.263132	0.226656	0.235466	0.226645
0.153	0.22257	0.234941	0.218549	0.256319	0.222573	0.234941	0.222555
0.149	0.16511	0.226617	0.161088	0.196012	0.165112	0.226617	0.165204
0.153	0.16106	0.200281	0.157035	0.193871	0.161058	0.200281	0.161114
0.151	0.157	0.177639	0.152981	0.190561	0.157005	0.177639	0.157023
0.152	0.15295	0.158691	0.148928	0.186084	0.152952	0.158691	0.152933
0.153	0.1489	0.143436	0.144875	0.180438	0.148898	0.143436	0.148843
0.117	0.14484	0.131874	0.140821	0.173625	0.144845	0.131874	0.144752
0.118	0.08723	0.165459	0.083211	0.08024	0.087235	0.165459	0.087402
0.119	0.08321	0.128088	0.079187	0.078099	0.083211	0.128088	0.083311
0.121	0.07919	0.09441	0.075164	0.074789	0.079187	0.09441	0.079221
0.114	0.07516	0.064426	0.07114	0.070312	0.075164	0.064426	0.07513
0.111	0.07114	0.038136	0.067117	0.064666	0.07114	0.038136	0.07104
0.095	0.06712	0.015538	0.063093	0.057853	0.067117	0.015538	0.066949
0.412	0.3598	0.291535	0.369865	0.305925	0.359805	0.291535	0.359675
0.411	0.35566	0.298306	0.365723	0.303783	0.355662	0.298306	0.355584
0.411	0.35152	0.308771	0.36158	0.300474	0.35152	0.308771	0.351494
0.408	0.34738	0.32293	0.357438	0.295996	0.347377	0.32293	0.347403
0.409	0.34323	0.340782	0.353295	0.290351	0.343235	0.340782	0.343313
0.395	0.33909	0.362327	0.349153	0.283537	0.339092	0.362327	0.339222
0.305	0.32087	0.282519	0.330927	0.30179	0.320866	0.282519	0.320774
0.307	0.31674	0.283773	0.326799	0.299648	0.316739	0.283773	0.316683
0.306	0.31261	0.28872	0.322672	0.296339	0.312611	0.28872	0.312593
0.304	0.30848	0.297361	0.318544	0.291861	0.308484	0.297361	0.308502
0.303	0.30436	0.309695	0.314416	0.286216	0.304356	0.309695	0.304412
0.271	0.30023	0.325722	0.310289	0.279402	0.300228	0.325722	0.300321
0.241	0.28193	0.270186	0.291988	0.289386	0.281928	0.270186	0.281872
0.239	0.27782	0.265922	0.287876	0.287244	0.277815	0.265922	0.277782
0.236	0.2737	0.265351	0.283763	0.283935	0.273702	0.265351	0.273691
0.239	0.26959	0.268474	0.27965	0.279457	0.26959	0.268474	0.269601
0.238	0.26548	0.27529	0.275537	0.273812	0.265477	0.27529	0.26551
0.205	0.26136	0.2858	0.271424	0.266998	0.261364	0.2858	0.26142
0.161	0.20405	0.235567	0.214111	0.239769	0.204051	0.235567	0.20407
0.159	0.19997	0.220268	0.210028	0.237628	0.199968	0.220268	0.199979
0.163	0.19589	0.208661	0.205945	0.234318	0.195885	0.208661	0.195889
0.162	0.1918	0.200748	0.201862	0.229841	0.191802	0.200748	0.191798
0.161	0.18772	0.196529	0.197779	0.224195	0.187719	0.196529	0.187708
0.135	0.18364	0.196003	0.193696	0.217382	0.183636	0.196003	0.183617
0.125	0.12617	0.187679	0.136235	0.157075	0.126174	0.187679	0.126267
0.126	0.12212	0.161344	0.132181	0.154933	0.122121	0.161344	0.122177
0.125	0.11807	0.138702	0.128128	0.151624	0.118068	0.138702	0.118086
0.127	0.11401	0.119753	0.124075	0.147146	0.114014	0.119753	0.113996
0.127	0.10996	0.104498	0.120021	0.141501	0.109961	0.104498	0.109905
0.101	0.10591	0.092937	0.115968	0.134687	0.105908	0.092937	0.105815
0.091	0.0483	0.126522	0.058358	0.041303	0.048297	0.126522	0.048465
0.085	0.04427	0.089151	0.054334	0.039161	0.044274	0.089151	0.044374

0.086	0.04025	0.055473	0.05031	0.035852	0.04025	0.055473	0.040284
0.088	0.03623	0.025489	0.046287	0.031374	0.036227	0.025489	0.036193
0.087	0.0322	-0.0008	0.042263	0.025729	0.032203	-0.0008	0.032103
0.066	0.02818	-0.0234	0.03824	0.018915	0.028179	-0.0234	0.028012
0.432	0.36211	0.293838	0.372225	0.308228	0.362108	0.293838	0.361978
0.435	0.35797	0.30061	0.368083	0.306087	0.357966	0.30061	0.357888
0.431	0.35382	0.311075	0.36394	0.302777	0.353823	0.311075	0.353797
0.431	0.34968	0.325233	0.359798	0.2983	0.349681	0.325233	0.349707
0.429	0.34554	0.343085	0.355655	0.292654	0.345538	0.343085	0.345616
0.411	0.3414	0.364631	0.351513	0.28584	0.341396	0.364631	0.341526
0.345	0.32317	0.284823	0.333287	0.304093	0.32317	0.284823	0.323077
0.344	0.31904	0.286076	0.329159	0.301952	0.319042	0.286076	0.318987
0.339	0.31491	0.291023	0.325032	0.298642	0.314915	0.291023	0.314896
0.341	0.31079	0.299664	0.320904	0.294165	0.310787	0.299664	0.310806
0.336	0.30666	0.311998	0.316776	0.288519	0.306659	0.311998	0.306715
0.307	0.30253	0.328026	0.312649	0.281706	0.302532	0.328026	0.302625
0.244	0.28423	0.27249	0.294348	0.291689	0.284231	0.27249	0.284176
0.246	0.28012	0.268225	0.290236	0.289548	0.280119	0.268225	0.280085
0.244	0.27601	0.267655	0.286123	0.286238	0.276006	0.267655	0.275995
0.246	0.27189	0.270777	0.28201	0.281761	0.271893	0.270777	0.271904
0.245	0.26778	0.277594	0.277897	0.276115	0.26778	0.277594	0.267814
0.221	0.26367	0.288104	0.273785	0.269302	0.263668	0.288104	0.263723
0.169	0.20635	0.237871	0.216472	0.242073	0.206355	0.237871	0.206373
0.168	0.20227	0.222571	0.212388	0.239931	0.202272	0.222571	0.202283
0.161	0.19819	0.210965	0.208305	0.236622	0.198188	0.210965	0.198192
0.158	0.19411	0.203052	0.204222	0.232144	0.194105	0.203052	0.194102
0.162	0.19002	0.198833	0.200139	0.226499	0.190022	0.198833	0.190011
0.138	0.18594	0.198307	0.196056	0.219685	0.185939	0.198307	0.185921
0.121	0.12848	0.189983	0.138595	0.159378	0.128478	0.189983	0.128571
0.118	0.12442	0.163647	0.134541	0.157237	0.124424	0.163647	0.12448
0.118	0.12037	0.141005	0.130488	0.153927	0.120371	0.141005	0.12039
0.116	0.11632	0.122057	0.126435	0.14945	0.116318	0.122057	0.116299
0.114	0.11226	0.106802	0.122381	0.143804	0.112264	0.106802	0.112209
0.095	0.10821	0.09524	0.118328	0.136991	0.108211	0.09524	0.108118
0.098	0.0506	0.128825	0.060718	0.043606	0.050601	0.128825	0.050768
0.085	0.04658	0.091454	0.056694	0.041465	0.046577	0.091454	0.046678
0.079	0.04255	0.057776	0.052671	0.038155	0.042554	0.057776	0.042587
0.081	0.03853	0.027792	0.048647	0.033678	0.03853	0.027792	0.038497
0.083	0.03451	0.001502	0.044623	0.028032	0.034506	0.001502	0.034406
0.044	0.03048	-0.0211	0.0406	0.021219	0.030483	-0.0211	0.030316
0.412	0.33538	0.267112	0.329877	0.281502	0.335382	0.267112	0.335252
0.413	0.33124	0.273884	0.325735	0.279361	0.33124	0.273884	0.331162
0.414	0.3271	0.284349	0.321592	0.276051	0.327097	0.284349	0.327071
0.415	0.32295	0.298507	0.31745	0.271574	0.322955	0.298507	0.322981
0.397	0.31881	0.316359	0.313307	0.265928	0.318812	0.316359	0.31889
0.374	0.31467	0.337905	0.309165	0.259114	0.31467	0.337905	0.3148
0.286	0.29644	0.258097	0.290939	0.277367	0.296444	0.258097	0.296351
0.287	0.29232	0.25935	0.286811	0.275226	0.292316	0.25935	0.292261

0.291	0.28819	0.264297	0.282684	0.271916	0.288189	0.264297	0.28817
0.285	0.28406	0.272938	0.278556	0.267439	0.284061	0.272938	0.28408
0.271	0.27993	0.285272	0.274428	0.261793	0.279933	0.285272	0.279989
0.236	0.27581	0.3013	0.270301	0.25498	0.275806	0.3013	0.275899
0.172	0.25751	0.245763	0.252	0.264963	0.257505	0.245763	0.25745
0.171	0.25339	0.241499	0.247888	0.262822	0.253393	0.241499	0.253359
0.175	0.24928	0.240929	0.243775	0.259512	0.24928	0.240929	0.249269
0.173	0.24517	0.244051	0.239662	0.255035	0.245167	0.244051	0.245178
0.178	0.24105	0.250868	0.235549	0.249389	0.241054	0.250868	0.241088
0.152	0.23694	0.261378	0.231437	0.242576	0.236942	0.261378	0.236997
0.126	0.17963	0.211145	0.174124	0.215347	0.179629	0.211145	0.179647
0.128	0.17555	0.195845	0.17004	0.213205	0.175546	0.195845	0.175557
0.131	0.17146	0.184239	0.165957	0.209896	0.171462	0.184239	0.171466
0.125	0.16738	0.176326	0.161874	0.205418	0.167379	0.176326	0.167376
0.121	0.1633	0.172107	0.157791	0.199773	0.163296	0.172107	0.163285
0.102	0.15921	0.171581	0.153708	0.192959	0.159213	0.171581	0.159195
0.091	0.10175	0.163257	0.096247	0.132652	0.101752	0.163257	0.101845
0.092	0.0977	0.136921	0.092193	0.130511	0.097698	0.136921	0.097754
0.089	0.09365	0.114279	0.08814	0.127201	0.093645	0.114279	0.093664
0.091	0.08959	0.095331	0.084087	0.122724	0.089592	0.095331	0.089573
0.087	0.08554	0.080076	0.080033	0.117078	0.085538	0.080076	0.085483
0.071	0.08149	0.068514	0.07598	0.110265	0.081485	0.068514	0.081392
0.045	0.02387	0.102099	0.01837	0.01688	0.023875	0.102099	0.024042
0.048	0.01985	0.064728	0.014346	0.014739	0.019851	0.064728	0.019951
0.049	0.01583	0.03105	0.010323	0.011429	0.015828	0.03105	0.015861
0.043	0.0118	0.001066	0.006299	0.006952	0.011804	0.001066	0.011771
0.039	0.00778	-0.02522	0.002275	0.001306	0.00778	-0.02522	0.00768
0.009	0.00376	-0.04782	-0.00175	-0.00551	0.003757	-0.04782	0.00359
0.439	0.33769	0.269416	0.332237	0.283806	0.337686	0.269416	0.337556
0.438	0.33354	0.276187	0.328095	0.281664	0.333543	0.276187	0.333465
0.44	0.3294	0.286652	0.323952	0.278355	0.329401	0.286652	0.329375
0.438	0.32526	0.300811	0.31981	0.273877	0.325258	0.300811	0.325284
0.426	0.32112	0.318663	0.315667	0.268232	0.321116	0.318663	0.321194
0.401	0.31697	0.340208	0.311525	0.261418	0.316973	0.340208	0.317103
0.278	0.29875	0.2604	0.293299	0.279671	0.298747	0.2604	0.298654
0.278	0.29462	0.261654	0.289171	0.277529	0.29462	0.261654	0.294564
0.273	0.29049	0.266601	0.285044	0.27422	0.290492	0.266601	0.290474
0.269	0.28636	0.275241	0.280916	0.269742	0.286364	0.275241	0.286383
0.254	0.28224	0.287576	0.276788	0.264097	0.282237	0.287576	0.282293
0.221	0.27811	0.303603	0.272661	0.257283	0.278109	0.303603	0.278202
0.183	0.25981	0.248067	0.25436	0.267267	0.259809	0.248067	0.259753
0.182	0.2557	0.243803	0.250248	0.265125	0.255696	0.243803	0.255663
0.181	0.25158	0.243232	0.246135	0.261816	0.251583	0.243232	0.251572
0.183	0.24747	0.246355	0.242022	0.257338	0.247471	0.246355	0.247482
0.18	0.24336	0.253171	0.237909	0.251693	0.243358	0.253171	0.243391
0.153	0.23925	0.263681	0.233797	0.244879	0.239245	0.263681	0.239301
0.116	0.18193	0.213448	0.176484	0.21765	0.181932	0.213448	0.181951
0.117	0.17785	0.198149	0.172401	0.215509	0.177849	0.198149	0.17786

0.116	0.17377	0.186542	0.168318	0.212199	0.173766	0.186542	0.17377
0.118	0.16968	0.178629	0.164234	0.207722	0.169683	0.178629	0.169679
0.113	0.1656	0.17441	0.160151	0.202076	0.1656	0.17441	0.165589
0.092	0.16152	0.173884	0.156068	0.195262	0.161517	0.173884	0.161498
0.086	0.10406	0.16556	0.098607	0.134956	0.104055	0.16556	0.104148
0.085	0.1	0.139225	0.094553	0.132814	0.100002	0.139225	0.100058
0.084	0.09595	0.116583	0.0905	0.129505	0.095948	0.116583	0.095967
0.085	0.0919	0.097634	0.086447	0.125027	0.091895	0.097634	0.091877
0.084	0.08784	0.082379	0.082393	0.119382	0.087842	0.082379	0.087786
0.052	0.08379	0.070818	0.07834	0.112568	0.083789	0.070818	0.083696
0.029	0.02618	0.104403	0.02073	0.019184	0.026178	0.104403	0.026345
0.031	0.02215	0.067031	0.016706	0.017042	0.022155	0.067031	0.022255
0.032	0.01813	0.033354	0.012683	0.013733	0.018131	0.033354	0.018164
0.036	0.01411	0.00337	0.008659	0.009255	0.014107	0.00337	0.014074
0.028	0.01008	-0.02292	0.004635	0.00361	0.010084	-0.02292	0.009984
0.009	0.00606	-0.04552	0.000612	-0.0032	0.00606	-0.04552	0.005893
0.426	0.39585	0.327581	0.391724	0.341971	0.395851	0.327581	0.395721
0.427	0.39171	0.334353	0.387581	0.339829	0.391709	0.334353	0.391631
0.426	0.38757	0.344818	0.383439	0.33652	0.387566	0.344818	0.38754
0.425	0.38342	0.358976	0.379296	0.332042	0.383424	0.358976	0.38345
0.421	0.37928	0.376828	0.375154	0.326397	0.379281	0.376828	0.379359
0.414	0.37514	0.398374	0.371011	0.319583	0.375139	0.398374	0.375269
0.349	0.35691	0.318566	0.352785	0.337836	0.356913	0.318566	0.35682
0.343	0.35279	0.319819	0.348657	0.335695	0.352785	0.319819	0.352729
0.341	0.34866	0.324766	0.34453	0.332385	0.348657	0.324766	0.348639
0.339	0.34453	0.333407	0.340402	0.327908	0.34453	0.333407	0.344548
0.345	0.3404	0.345741	0.336275	0.322262	0.340402	0.345741	0.340458
0.319	0.33627	0.361769	0.332147	0.315449	0.336275	0.361769	0.336367
0.281	0.31797	0.306232	0.313847	0.325432	0.317974	0.306232	0.317919
0.282	0.31386	0.301968	0.309734	0.323291	0.313862	0.301968	0.313828
0.281	0.30975	0.301397	0.305621	0.319981	0.309749	0.301397	0.309738
0.279	0.30564	0.30452	0.301508	0.315504	0.305636	0.30452	0.305647
0.281	0.30152	0.311337	0.297396	0.309858	0.301523	0.311337	0.301557
0.241	0.29741	0.321846	0.293283	0.303044	0.29741	0.321846	0.297466
0.21	0.2401	0.271614	0.23597	0.275815	0.240097	0.271614	0.240116
0.211	0.23601	0.256314	0.231887	0.273674	0.236014	0.256314	0.236026
0.212	0.23193	0.244708	0.227804	0.270365	0.231931	0.244708	0.231935
0.213	0.22785	0.236795	0.223721	0.265887	0.227848	0.236795	0.227845
0.211	0.22377	0.232575	0.219638	0.260241	0.223765	0.232575	0.223754
0.178	0.21968	0.23205	0.215555	0.253428	0.219682	0.23205	0.219664
0.16	0.16222	0.223726	0.158093	0.193121	0.16222	0.223726	0.162313
0.159	0.15817	0.19739	0.15404	0.19098	0.158167	0.19739	0.158223
0.156	0.15411	0.174748	0.149986	0.18767	0.154114	0.174748	0.154132
0.158	0.15006	0.1558	0.145933	0.183193	0.150061	0.1558	0.150042
0.159	0.14601	0.140545	0.14188	0.177547	0.146007	0.140545	0.145951
0.127	0.14195	0.128983	0.137826	0.170734	0.141954	0.128983	0.141861
0.105	0.08434	0.162568	0.080216	0.077349	0.084344	0.162568	0.084511
0.101	0.08032	0.125197	0.076192	0.075208	0.08032	0.125197	0.08042

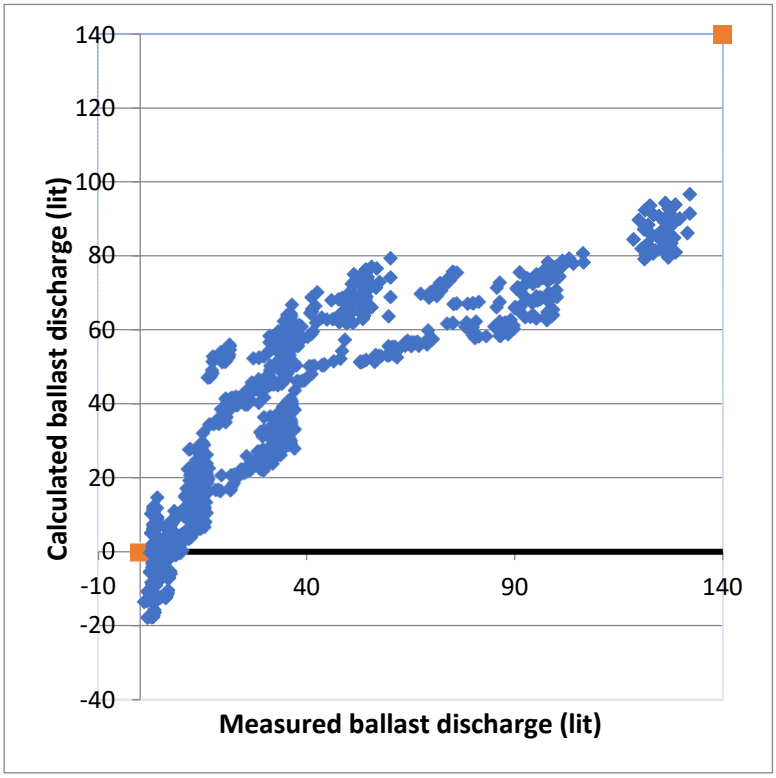
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0.099	0.07227	0.061535	0.068145	0.067421	0.072273	0.061535	0.072239
0.097	0.06825	0.035245	0.064122	0.061775	0.068249	0.035245	0.068149
0.063	0.06423	0.012647	0.060098	0.054962	0.064226	0.012647	0.064058
0.411	0.35922	0.290947	0.36923	0.305337	0.359217	0.290947	0.359087
0.411	0.35507	0.297719	0.365088	0.303196	0.355075	0.297719	0.354997
0.412	0.35093	0.308184	0.360945	0.299886	0.350932	0.308184	0.350906
0.411	0.34679	0.322342	0.356803	0.295409	0.34679	0.322342	0.346816
0.412	0.34265	0.340194	0.35266	0.289763	0.342647	0.340194	0.342725
0.406	0.3385	0.36174	0.348518	0.282949	0.338505	0.36174	0.338635
0.322	0.32028	0.281932	0.330292	0.301202	0.320279	0.281932	0.320186
0.325	0.31615	0.283185	0.326164	0.299061	0.316151	0.283185	0.316096
0.321	0.31202	0.288132	0.322037	0.295751	0.312024	0.288132	0.312005
0.322	0.3079	0.296773	0.317909	0.291274	0.307896	0.296773	0.307915
0.321	0.30377	0.309107	0.313781	0.285628	0.303768	0.309107	0.303824
0.277	0.29964	0.325135	0.309654	0.278815	0.299641	0.325135	0.299734
0.249	0.28134	0.269598	0.291353	0.288798	0.28134	0.269598	0.281285
0.248	0.27723	0.265334	0.287241	0.286657	0.277228	0.265334	0.277194
0.247	0.27311	0.264764	0.283128	0.283347	0.273115	0.264764	0.273104
0.246	0.269	0.267886	0.279015	0.27887	0.269002	0.267886	0.269013
0.241	0.26489	0.274703	0.274902	0.273224	0.264889	0.274703	0.264923
0.211	0.26078	0.285213	0.27079	0.266411	0.260777	0.285213	0.260832
0.178	0.20346	0.23498	0.213477	0.239182	0.203464	0.23498	0.203482
0.175	0.19938	0.21968	0.209394	0.23704	0.199381	0.21968	0.199392
0.174	0.1953	0.208074	0.20531	0.233731	0.195297	0.208074	0.195301
0.175	0.19121	0.200161	0.201227	0.229253	0.191214	0.200161	0.191211
0.176	0.18713	0.195942	0.197144	0.223608	0.187131	0.195942	0.18712
0.144	0.18305	0.195416	0.193061	0.216794	0.183048	0.195416	0.18303
0.149	0.12559	0.187092	0.1356	0.156487	0.125587	0.187092	0.12568
0.146	0.12153	0.160756	0.131546	0.154346	0.121533	0.160756	0.121589
0.143	0.11748	0.138114	0.127493	0.151036	0.11748	0.138114	0.117499
0.141	0.11343	0.119166	0.12344	0.146559	0.113427	0.119166	0.113408
0.139	0.10937	0.103911	0.119386	0.140913	0.109373	0.103911	0.109318
0.112	0.10532	0.092349	0.115333	0.1341	0.10532	0.092349	0.105227
0.091	0.04771	0.125934	0.057723	0.040715	0.04771	0.125934	0.047877
0.092	0.04369	0.088563	0.053699	0.038574	0.043686	0.088563	0.043787
0.089	0.03966	0.054885	0.049676	0.035264	0.039663	0.054885	0.039696
0.087	0.03564	0.024901	0.045652	0.030787	0.035639	0.024901	0.035606
0.085	0.03162	-0.00139	0.041628	0.025141	0.031615	-0.00139	0.031515
0.059	0.02759	-0.02399	0.037605	0.018328	0.027592	-0.02399	0.027425
0.421	0.33479	0.266525	0.329242	0.280915	0.334795	0.266525	0.334665
0.418	0.33065	0.273296	0.3251	0.278773	0.330652	0.273296	0.330574
0.42	0.32651	0.283761	0.320957	0.275464	0.32651	0.283761	0.326484
0.419	0.32237	0.29792	0.316815	0.270986	0.322367	0.29792	0.322393
0.415	0.31822	0.315772	0.312672	0.265341	0.318225	0.315772	0.318303
0.388	0.31408	0.337317	0.30853	0.258527	0.314082	0.337317	0.314212
0.29	0.29586	0.257509	0.290304	0.27678	0.295856	0.257509	0.295763
0.292	0.29173	0.258763	0.286176	0.274638	0.291729	0.258763	0.291673

0.292	0.2876	0.26371	0.282049	0.271329	0.287601	0.26371	0.287583
0.291	0.28347	0.27235	0.277921	0.266851	0.283473	0.27235	0.283492
0.283	0.27935	0.284685	0.273793	0.261206	0.279346	0.284685	0.279402
0.247	0.27522	0.300712	0.269666	0.254392	0.275218	0.300712	0.275311
0.186	0.25692	0.245176	0.251366	0.264376	0.256918	0.245176	0.256862
0.187	0.25281	0.240912	0.247253	0.262234	0.252805	0.240912	0.252772
0.185	0.24869	0.240341	0.24314	0.258925	0.248692	0.240341	0.248681
0.183	0.24458	0.243464	0.239027	0.254447	0.24458	0.243464	0.244591
0.183	0.24047	0.25028	0.234914	0.248802	0.240467	0.25028	0.2405
0.151	0.23635	0.26079	0.230802	0.241988	0.236354	0.26079	0.23641
0.124	0.17904	0.210557	0.173489	0.214759	0.179041	0.210557	0.17906
0.125	0.17496	0.195258	0.169406	0.212618	0.174958	0.195258	0.174969
0.126	0.17087	0.183651	0.165323	0.209308	0.170875	0.183651	0.170879
0.125	0.16679	0.175738	0.161239	0.204831	0.166792	0.175738	0.166788
0.124	0.16271	0.171519	0.157156	0.199185	0.162709	0.171519	0.162698
0.109	0.15863	0.170993	0.153073	0.192371	0.158626	0.170993	0.158607
0.091	0.10116	0.162669	0.095612	0.132065	0.101164	0.162669	0.101257
0.092	0.09711	0.136334	0.091558	0.129923	0.097111	0.136334	0.097167
0.09	0.09306	0.113692	0.087505	0.126614	0.093057	0.113692	0.093076
0.09	0.089	0.094743	0.083452	0.122136	0.089004	0.094743	0.088986
0.089	0.08495	0.079488	0.079398	0.116491	0.084951	0.079488	0.084895
0.058	0.0809	0.067927	0.075345	0.109677	0.080898	0.067927	0.080805
0.051	0.02329	0.101512	0.017735	0.016293	0.023287	0.101512	0.023454
0.05	0.01926	0.06414	0.013711	0.014151	0.019264	0.06414	0.019364
0.049	0.01524	0.030463	0.009688	0.010842	0.01524	0.030463	0.015273
0.048	0.01122	0.000479	0.005664	0.006364	0.011216	0.000479	0.011183
0.045	0.00719	-0.02581	0.00164	0.000719	0.007193	-0.02581	0.007093
0.019	0.00317	-0.04841	-0.00238	-0.00609	0.003169	-0.04841	0.003002
0.431	0.39684	0.328572	0.392794	0.342961	0.396842	0.328572	0.396712
0.429	0.3927	0.335343	0.388651	0.34082	0.392699	0.335343	0.392621
0.428	0.38856	0.345808	0.384509	0.33751	0.388557	0.345808	0.388531
0.432	0.38441	0.359967	0.380366	0.333033	0.384414	0.359967	0.38444
0.431	0.38027	0.377818	0.376224	0.327387	0.380272	0.377818	0.38035
0.409	0.37613	0.399364	0.372081	0.320574	0.376129	0.399364	0.376259
0.361	0.3579	0.319556	0.353855	0.338827	0.357903	0.319556	0.35781
0.362	0.35378	0.32081	0.349728	0.336685	0.353776	0.32081	0.35372
0.359	0.34965	0.325757	0.3456	0.333376	0.349648	0.325757	0.349629
0.358	0.34552	0.334397	0.341472	0.328898	0.34552	0.334397	0.345539
0.361	0.34139	0.346731	0.337345	0.323253	0.341393	0.346731	0.341448
0.33	0.33726	0.362759	0.333217	0.316439	0.337265	0.362759	0.337358
0.292	0.31896	0.307223	0.314917	0.326422	0.318965	0.307223	0.318909
0.292	0.31485	0.302959	0.310804	0.324281	0.314852	0.302959	0.314819
0.291	0.31074	0.302388	0.306691	0.320972	0.310739	0.302388	0.310728
0.293	0.30663	0.305511	0.302579	0.316494	0.306626	0.305511	0.306638
0.291	0.30251	0.312327	0.298466	0.310848	0.302514	0.312327	0.302547
0.253	0.2984	0.322837	0.294353	0.304035	0.298401	0.322837	0.298457
0.222	0.24109	0.272604	0.23704	0.276806	0.241088	0.272604	0.241106
0.226	0.237	0.257304	0.232957	0.274664	0.237005	0.257304	0.237016

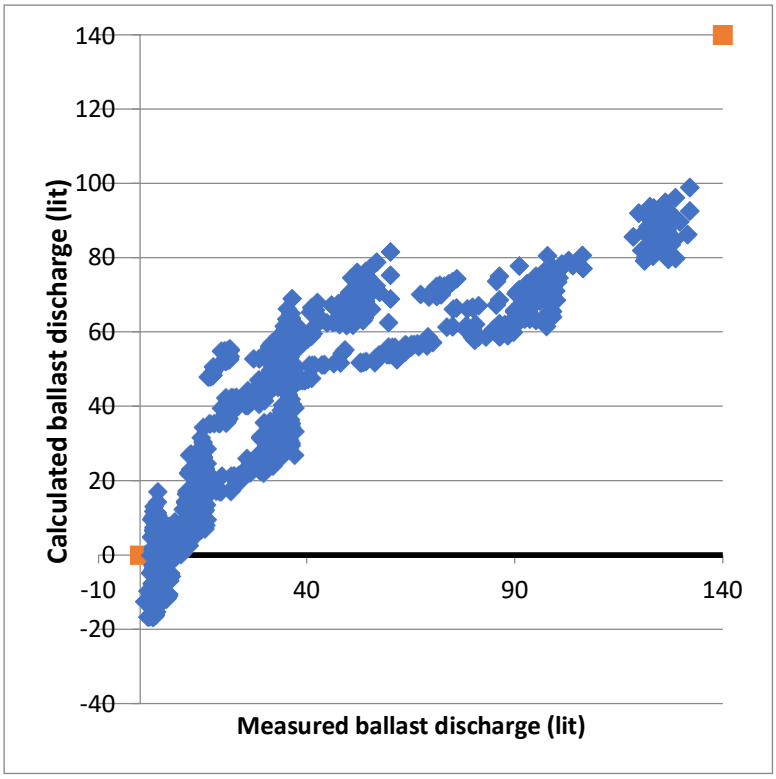
0.225	0.23292	0.245698	0.228874	0.271355	0.232922	0.245698	0.232925
0.225	0.22884	0.237785	0.224791	0.266877	0.228839	0.237785	0.228835
0.226	0.22476	0.233566	0.220708	0.261232	0.224756	0.233566	0.224744
0.186	0.22067	0.23304	0.216625	0.254418	0.220673	0.23304	0.220654
0.171	0.16321	0.224716	0.159163	0.194112	0.163211	0.224716	0.163304
0.169	0.15916	0.198381	0.15511	0.19197	0.159158	0.198381	0.159213
0.169	0.1551	0.175739	0.151056	0.188661	0.155104	0.175739	0.155123
0.161	0.15105	0.15679	0.147003	0.184183	0.151051	0.15679	0.151032
0.159	0.147	0.141535	0.14295	0.178538	0.146998	0.141535	0.146942
0.125	0.14294	0.129974	0.138897	0.171724	0.142944	0.129974	0.142851
0.095	0.08533	0.163558	0.081286	0.07834	0.085334	0.163558	0.085501
0.089	0.08131	0.126187	0.077263	0.076198	0.08131	0.126187	0.081411
0.091	0.07729	0.09251	0.073239	0.072889	0.077287	0.09251	0.07732
0.098	0.07326	0.062526	0.069215	0.068411	0.073263	0.062526	0.07323
0.095	0.06924	0.036235	0.065192	0.062766	0.06924	0.036235	0.069139
0.061	0.06522	0.013638	0.061168	0.055952	0.065216	0.013638	0.065049
0.42	0.36021	0.291938	0.370301	0.306328	0.360208	0.291938	0.360078
0.421	0.35607	0.298709	0.366158	0.304186	0.356065	0.298709	0.355987
0.422	0.35192	0.309174	0.362016	0.300877	0.351923	0.309174	0.351897
0.418	0.34778	0.323333	0.357873	0.296399	0.34778	0.323333	0.347806
0.415	0.34364	0.341185	0.353731	0.290753	0.343638	0.341185	0.343716
0.409	0.3395	0.36273	0.349588	0.28394	0.339495	0.36273	0.339625
0.348	0.32127	0.282922	0.331362	0.302193	0.321269	0.282922	0.321176
0.347	0.31714	0.284176	0.327235	0.300051	0.317142	0.284176	0.317086
0.345	0.31301	0.289123	0.323107	0.296742	0.313014	0.289123	0.312995
0.347	0.30889	0.297763	0.318979	0.292264	0.308886	0.297763	0.308905
0.341	0.30476	0.310098	0.314852	0.286619	0.304759	0.310098	0.304815
0.308	0.30063	0.326125	0.310724	0.279805	0.300631	0.326125	0.300724
0.272	0.28233	0.270589	0.292424	0.289789	0.282331	0.270589	0.282275
0.269	0.27822	0.266325	0.288311	0.287647	0.278218	0.266325	0.278185
0.268	0.27411	0.265754	0.284198	0.284338	0.274105	0.265754	0.274094
0.268	0.26999	0.268877	0.280085	0.27986	0.269993	0.268877	0.270004
0.265	0.26588	0.275693	0.275973	0.274215	0.26588	0.275693	0.265913
0.224	0.26177	0.286203	0.27186	0.267401	0.261767	0.286203	0.261823
0.201	0.20445	0.23597	0.214547	0.240172	0.204454	0.23597	0.204473
0.199	0.20037	0.220671	0.210464	0.238031	0.200371	0.220671	0.200382
0.198	0.19629	0.209064	0.206381	0.234721	0.196288	0.209064	0.196292
0.198	0.1922	0.201151	0.202298	0.230244	0.192205	0.201151	0.192201
0.195	0.18812	0.196932	0.198215	0.224598	0.188122	0.196932	0.188111
0.162	0.18404	0.196406	0.194132	0.217784	0.184039	0.196406	0.18402
0.156	0.12658	0.188082	0.13667	0.157478	0.126577	0.188082	0.12667
0.157	0.12252	0.161747	0.132617	0.155336	0.122524	0.161747	0.12258
0.157	0.11847	0.139105	0.128563	0.152027	0.11847	0.139105	0.118489
0.158	0.11442	0.120156	0.12451	0.147549	0.114417	0.120156	0.114399
0.159	0.11036	0.104901	0.120457	0.141904	0.110364	0.104901	0.110308
0.119	0.10631	0.09334	0.116403	0.13509	0.10631	0.09334	0.106218
0.099	0.0487	0.126925	0.058793	0.041706	0.0487	0.126925	0.048867
0.101	0.04468	0.089553	0.054769	0.039564	0.044677	0.089553	0.044777

0.098	0.04065	0.055876	0.050746	0.036255	0.040653	0.055876	0.040686
0.099	0.03663	0.025892	0.046722	0.031777	0.036629	0.025892	0.036596
0.098	0.03261	-0.0004	0.042699	0.026132	0.032606	-0.0004	0.032505
0.064	0.02858	-0.023	0.038675	0.019318	0.028582	-0.023	0.028415
0.425	0.33579	0.267515	0.330313	0.281905	0.335785	0.267515	0.335655
0.424	0.33164	0.274287	0.32617	0.279764	0.331643	0.274287	0.331565
0.423	0.3275	0.284752	0.322028	0.276454	0.3275	0.284752	0.327474
0.425	0.32336	0.29891	0.317885	0.271977	0.323358	0.29891	0.323384
0.427	0.31922	0.316762	0.313743	0.266331	0.319215	0.316762	0.319293
0.401	0.31507	0.338308	0.3096	0.259517	0.315073	0.338308	0.315203
0.31	0.29685	0.2585	0.291374	0.27777	0.296847	0.2585	0.296754
0.31	0.29272	0.259753	0.287247	0.275629	0.292719	0.259753	0.292663
0.309	0.28859	0.2647	0.283119	0.272319	0.288592	0.2647	0.288573
0.305	0.28446	0.273341	0.278991	0.267842	0.284464	0.273341	0.284482
0.308	0.28034	0.285675	0.274864	0.262196	0.280336	0.285675	0.280392
0.261	0.27621	0.301703	0.270736	0.255383	0.276209	0.301703	0.276302
0.202	0.25791	0.246166	0.252436	0.265366	0.257908	0.246166	0.257853
0.201	0.2538	0.241902	0.248323	0.263225	0.253796	0.241902	0.253762
0.203	0.24968	0.241331	0.24421	0.259915	0.249683	0.241331	0.249672
0.2	0.24557	0.244454	0.240097	0.255438	0.24557	0.244454	0.245581
0.2	0.24146	0.251271	0.235985	0.249792	0.241457	0.251271	0.241491
0.163	0.23734	0.26178	0.231872	0.242978	0.237344	0.26178	0.2374
0.151	0.18003	0.211548	0.174559	0.21575	0.180031	0.211548	0.18005
0.15	0.17595	0.196248	0.170476	0.213608	0.175948	0.196248	0.17596
0.15	0.17187	0.184642	0.166393	0.210299	0.171865	0.184642	0.171869
0.149	0.16778	0.176729	0.16231	0.205821	0.167782	0.176729	0.167779
0.148	0.1637	0.172509	0.158227	0.200175	0.163699	0.172509	0.163688
0.114	0.15962	0.171984	0.154144	0.193362	0.159616	0.171984	0.159598
0.101	0.10215	0.16366	0.096682	0.133055	0.102155	0.16366	0.102247
0.1	0.0981	0.137324	0.092629	0.130914	0.098101	0.137324	0.098157
0.1	0.09405	0.114682	0.088575	0.127604	0.094048	0.114682	0.094066
0.102	0.08999	0.095734	0.084522	0.123127	0.089995	0.095734	0.089976
0.099	0.08594	0.080479	0.080469	0.117481	0.085941	0.080479	0.085886
0.065	0.08189	0.068917	0.076415	0.110668	0.081888	0.068917	0.081795
0.051	0.02428	0.102502	0.018805	0.017283	0.024278	0.102502	0.024445
0.052	0.02025	0.065131	0.014781	0.015142	0.020254	0.065131	0.020354
0.051	0.01623	0.031453	0.010758	0.011832	0.01623	0.031453	0.016264
0.05	0.01221	0.001469	0.006734	0.007355	0.012207	0.001469	0.012173
0.05	0.00818	-0.02482	0.002711	0.001709	0.008183	-0.02482	0.008083
0.023	0.00416	-0.04742	-0.00131	-0.0051	0.00416	-0.04742	0.003992

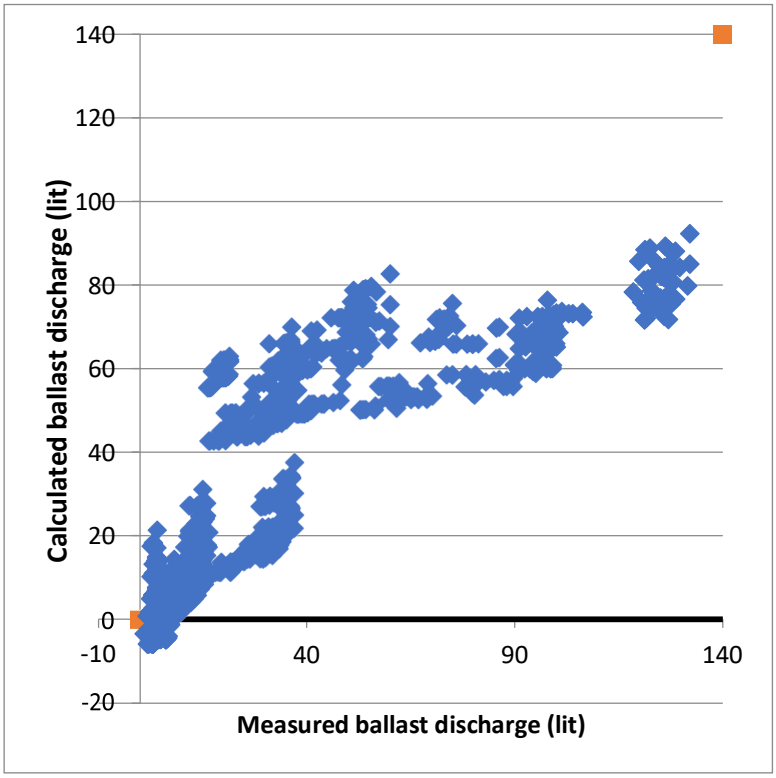
Appendix VII



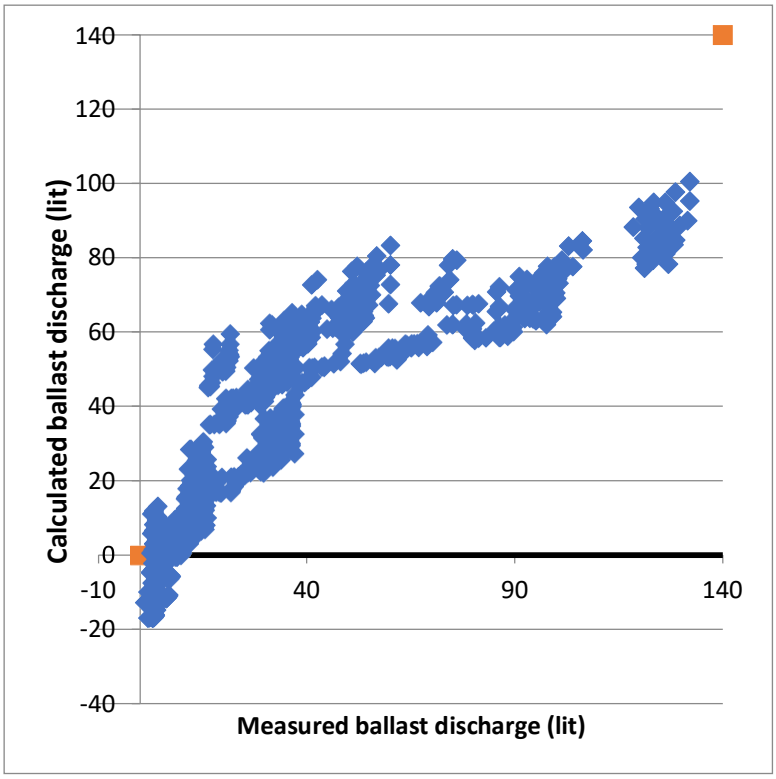
Measured ballast discharge vs calculated ballast discharge total test results for Model1



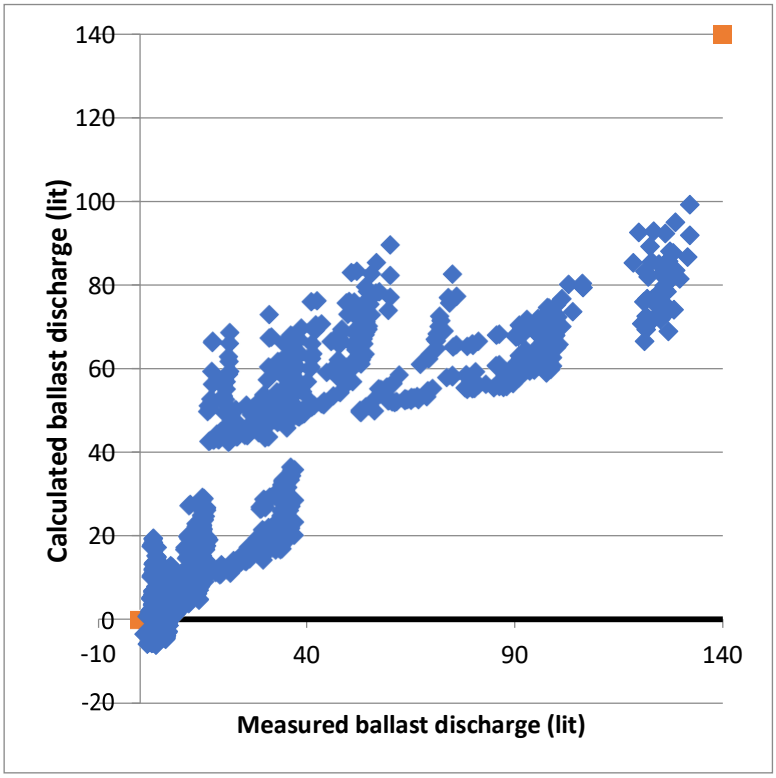
Measured ballast discharge vs calculated ballast discharge total test results for Model2



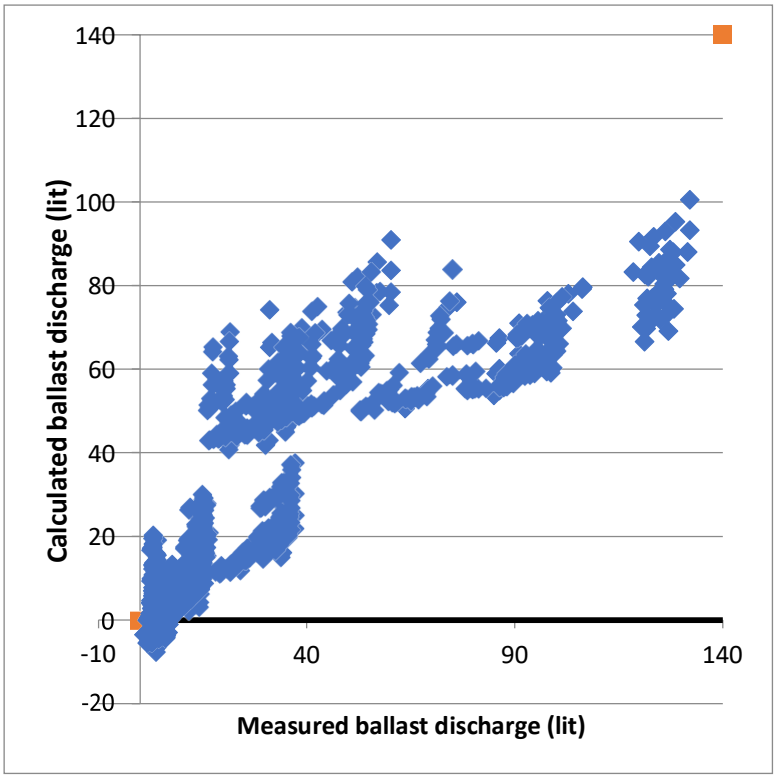
Measured ballast discharge vs calculated ballast discharge total test results for Model3



Measured ballast discharge vs calculated ballast discharge total test results for Model4



Measured ballast discharge vs calculated ballast discharge total test results for Model5



Measured ballast discharge vs calculated ballast discharge total test results for Model6

	Model number					
	1	2	3	4	5	6
y	Negatives predictions					
	109	106	44	106	46	45
Measured ballast discharge (lit)						
4	-13.0892	-15.3102	-1.90151	-14.7155	-5.92844	-7.52056
4.1	-7.85444	-8.9649	-0.85843	-9.48072	-4.88536	-6.47748
4.1	-2.61963	-2.61963	2.270802	-4.24591	-1.75613	-3.34825
4.1	2.615175	3.725634	7.486194	0.988894	3.459263	1.86715
4.1	7.84998	10.0709	14.78774	6.2237	10.76081	9.16869
8.1	4.232925	2.012007	7.787206	2.588634	3.739845	2.14776
14.3	9.467731	8.357272	8.830284	7.82344	4.782924	3.19084
14.5	14.70254	14.70254	11.95952	13.05825	7.912159	6.32008
14.5	19.93734	21.0478	17.17491	18.29305	13.12755	11.5355
14.6	25.17215	27.39307	24.47646	23.52786	20.4291	18.837
21.4	38.87726	36.65634	46.54208	37.19695	42.413	40.8211
30.1	44.11207	43.00161	47.58515	42.43175	43.45607	41.8641
34.9	49.34687	49.34687	50.71439	47.66656	46.58531	44.9934
35.1	54.58168	55.69214	55.92978	52.90137	51.8007	50.2088
35.3	59.81648	62.0374	63.23133	58.13617	59.10225	57.5103
6.1	-1.52667	-3.74759	4.521406	-2.17824	2.931444	1.24297
11.8	3.708135	2.597676	5.564485	3.056567	3.974522	2.28605
12	8.942941	8.942941	8.69372	8.291373	7.103757	5.41528
12	14.17775	15.28821	13.90911	13.52618	12.31915	10.6307
12	19.41255	21.63347	21.21066	18.76098	19.6207	17.9322
12.2	15.7955	13.57458	14.21012	15.12592	12.59973	10.9113
24.1	21.0303	19.91984	15.2532	20.36072	13.64281	11.9544
33.8	26.26511	26.26511	18.38244	25.59553	16.77205	15.0836
33.9	31.49992	32.61037	23.59783	30.83034	21.98744	20.299
33.9	36.73472	38.95564	30.89938	36.06514	29.28899	27.6005
34.1	50.43983	48.21892	52.96499	49.73423	51.27288	49.5846
63.7	55.67464	54.56418	54.00807	54.96904	52.31596	50.6277
85	60.90945	60.90945	57.13731	60.20385	55.4452	53.7569
85.5	66.14425	67.25471	62.3527	65.43865	60.66059	58.9723
85.6	71.37906	73.59998	69.65425	70.67346	67.96214	66.2738
17.5	51.46845	49.24754	59.24659	55.28432	66.23462	64.1657
31.1	56.70326	55.5928	60.28966	60.51912	67.27769	65.2088

42.3	61.93806	61.93806	63.4189	65.75393	70.40693	68.338
49.6	67.17287	68.28333	68.63429	70.98873	75.62232	73.5534
50.8	72.40768	74.62859	75.93584	76.22354	82.92387	80.8549
41.2	68.79062	66.5697	68.9353	72.58847	75.9029	73.834
74.1	74.02543	72.91497	69.97838	77.82328	76.94598	74.8771
102.9	79.26023	79.26023	73.10762	83.05808	80.07522	78.0063
118.5	84.49504	85.6055	78.32301	88.29289	85.29061	83.2217
119.8	89.72984	91.95076	85.62456	93.5277	92.59216	90.5233
4.1	-11.6978	-13.9187	-1.63591	-13.3228	-5.66438	-6.37386
4.1	-6.46301	-7.57347	-0.59283	-8.088	-4.6213	-5.33079
4.1	-1.2282	-1.2282	2.536402	-2.85319	-1.49207	-2.20155
4.1	4.006604	5.117063	7.751794	2.381612	3.723323	3.01384
4.1	9.24141	11.46233	15.05334	7.616418	11.02487	10.3154
8.1	5.624355	3.403436	8.052806	3.981352	4.003906	3.29446
14.4	10.85916	9.748701	9.095884	9.216158	5.046984	4.33754
14.4	16.09397	16.09397	12.22512	14.45096	8.176219	7.46677
14.4	21.32877	22.43923	17.44051	19.68577	13.39161	12.6822
14.5	26.56358	28.7845	24.74206	24.92058	20.69316	19.9837
21.7	40.26869	38.04777	46.80768	38.58967	42.67706	41.9677
31	45.5035	44.39304	47.85075	43.82447	43.72014	43.0108
35.1	50.7383	50.7383	50.97999	49.05928	46.84937	46.1401
35.2	55.97311	57.08357	56.19538	54.29408	52.06476	51.3555
35.2	61.20791	63.42883	63.49693	59.52889	59.36631	58.657
6.2	-0.13524	-2.35616	4.787006	-0.78552	3.195505	2.38966
12	5.099565	3.989106	5.830085	4.449285	4.238583	3.43274
12.1	10.33437	10.33437	8.95932	9.684091	7.367818	6.56198
12.1	15.56918	16.67964	14.17471	14.9189	12.58321	11.7774
12.1	20.80398	23.0249	21.47626	20.1537	19.88476	19.0789
12.3	17.18693	14.96601	14.47572	16.51864	12.86379	12.058
24.4	22.42173	21.31127	15.5188	21.75344	13.90687	13.1011
34.2	27.65654	27.65654	18.64804	26.98825	17.03611	16.2303
34.2	32.89134	34.0018	23.86343	32.22305	22.2515	21.4457
34.2	38.12615	40.34707	31.16498	37.45786	29.55305	28.7472
34.1	51.83126	49.61034	53.23059	51.12695	51.53694	50.7313
64.2	57.06607	55.95561	54.27367	56.36176	52.58002	51.7744
86.3	62.30087	62.30087	57.40291	61.59656	55.70926	54.9036
86.3	67.53568	68.64614	62.6183	66.83137	60.92465	60.119
86.3	72.77049	74.9914	69.91985	72.06617	68.2262	67.4205
17.6	52.85988	50.63896	59.51219	56.67703	66.49868	65.3124
31.7	58.09469	56.98423	60.55526	61.91184	67.54175	66.3555
43.7	63.32949	63.32949	63.6845	67.14665	70.67099	69.4847
51.5	68.5643	69.67476	68.89989	72.38145	75.88638	74.7001
52.1	73.79911	76.02002	76.20144	77.61626	83.18793	82.0016
42.6	70.18205	67.96113	69.2009	73.98119	76.16696	74.9807
76.1	75.41686	74.3064	70.24398	79.216	77.21004	76.0238
106.2	80.65166	80.65166	73.37322	84.4508	80.33928	79.153
122.9	85.88647	86.99693	78.58861	89.68561	85.55467	84.3684

123.4	91.12127	93.34219	85.89016	94.92041	92.85622	91.67
4	-8.91495	-11.1359	0.488887	-10.5374	-3.5519	-2.79101
4.2	-3.68015	-4.79061	1.531965	-5.30256	-2.50882	-1.74793
4.2	1.554657	1.554657	4.6612	-0.06776	0.620416	1.38131
4.2	6.789463	7.899922	9.876592	5.167048	5.835808	6.5967
4.2	12.02427	14.24519	17.17814	10.40185	13.13736	13.8982
8.2	8.407213	6.186295	10.1776	6.766788	6.11639	6.87732
14.4	13.64202	12.53156	11.22068	12.00159	7.159469	7.92039
14.6	18.87683	18.87683	14.34992	17.2364	10.2887	11.0496
14.7	24.11163	25.22209	19.56531	22.47121	15.5041	16.265
14.7	29.34644	31.56735	26.86686	27.70601	22.80564	23.5666
25.1	43.05155	40.83063	48.93247	41.3751	44.78954	45.5506
35.4	48.28636	47.1759	49.97555	46.60991	45.83262	46.5937
35.4	53.52116	53.52116	53.10479	51.84472	48.96185	49.7229
35.4	58.75597	59.86643	58.32018	57.07952	54.17725	54.9383
35.4	63.99077	66.21169	65.62173	62.31433	61.47879	62.2399
6.5	2.647618	0.4267	6.911804	1.999916	5.307989	5.97252
14	7.882424	6.771965	7.954883	7.234721	6.351067	7.0156
14.2	13.11723	13.11723	11.08412	12.46953	9.480302	10.1448
14.3	18.35204	19.46249	16.29951	17.70433	14.69569	15.3602
14.3	23.58684	25.80776	23.60106	22.93914	21.99724	22.6618
13.6	19.96979	17.74887	16.60052	19.30407	14.97628	15.6408
28.3	25.20459	24.09413	17.6436	24.53888	16.01936	16.6839
35.5	30.4394	30.4394	20.77284	29.77368	19.14859	19.8132
35.6	35.6742	36.78466	25.98823	35.00849	24.36398	25.0285
35.6	40.90901	43.12993	33.28978	40.2433	31.66553	32.3301
35.7	54.61412	52.3932	55.35539	53.91239	53.64943	54.3141
69.1	59.84893	58.73847	56.39847	59.14719	54.69251	55.3572
91	65.08373	65.08373	59.5277	64.382	57.82174	58.4864
91.1	70.31854	71.429	64.7431	69.61681	63.03713	63.7018
91.1	75.55335	77.77426	72.04464	74.85161	70.33868	71.0034
21.7	55.64274	53.42182	61.63698	59.46247	68.61116	68.8952
38.8	60.87755	59.76709	62.68006	64.69728	69.65424	69.9383
55.6	66.11235	66.11235	65.8093	69.93208	72.78347	73.0676
56.7	71.34716	72.45762	71.02469	75.16689	77.99887	78.283
56.8	76.58196	78.80288	78.32624	80.40169	85.30041	85.5845
57.5	72.96491	70.74399	71.3257	76.76663	78.27945	78.5636
106.4	78.19972	77.08926	72.36878	82.00143	79.32253	79.6066
127.6	83.43452	83.43452	75.49801	87.23624	82.45176	82.7359
128.1	88.66933	89.77979	80.71341	92.47104	87.66715	87.9513
128.6	93.90413	96.12505	88.01495	97.70585	94.9687	95.2528
4.2	-6.1321	-8.35301	4.738483	-7.75193	0.673071	2.51114
4.3	-0.89729	-2.00775	5.781562	-2.51713	1.71615	3.55422
4.3	4.337516	4.337516	8.910797	2.717679	4.845385	6.68346
4.3	9.572322	10.68278	14.12619	7.952485	10.06078	11.8988
4.3	14.80713	17.02805	21.42774	13.18729	17.36232	19.2004
8.4	11.19007	8.969154	14.4272	9.552225	10.34136	12.1795

15	16.42488	15.31442	15.47028	14.78703	11.38444	13.2225
15.1	21.65968	21.65968	18.59951	20.02184	14.51367	16.3518
15.2	26.89449	28.00495	23.81491	25.25664	19.72906	21.5672
15.2	32.1293	34.35021	31.11645	30.49145	27.03061	28.8687
26.9	45.83441	43.61349	53.18207	44.16054	49.01451	50.8528
36.4	51.06921	49.95876	54.22515	49.39535	50.05759	51.8958
36.5	56.30402	56.30402	57.35438	54.63015	53.18682	55.0251
36.5	61.53883	62.64929	62.56977	59.86496	58.40222	60.2405
36.5	66.77363	68.99455	69.87132	65.09976	65.70376	67.542
7.2	5.430477	3.209558	11.1614	4.785352	9.532958	11.2747
16.1	10.66528	9.554823	12.20448	10.02016	10.57604	12.3177
16.1	15.90009	15.90009	15.33371	15.25496	13.70527	15.447
16.1	21.13489	22.24535	20.54911	20.48977	18.92066	20.6624
16.1	26.3697	28.59062	27.85065	25.72458	26.22221	27.9639
16.7	22.75264	20.53173	20.85012	22.08951	19.20125	20.943
37.1	27.98745	26.87699	21.8932	27.32432	20.24432	21.9861
37.2	33.22226	33.22226	25.02243	32.55912	23.37356	25.1153
37.2	38.45706	39.56752	30.23782	37.79393	28.58895	30.3307
37.2	43.69187	45.91279	37.53937	43.02873	35.8905	37.6322
49.2	57.39698	55.17606	59.60499	56.69782	57.8744	59.6163
97.6	62.63179	61.52133	60.64807	61.93263	58.91747	60.6594
97.8	67.86659	67.86659	63.7773	67.16744	62.04671	63.7886
97.8	73.1014	74.21186	68.99269	72.40224	67.2621	69.004
97.8	78.3362	80.55712	76.29424	77.63705	74.56365	76.3055
31.1	58.4256	56.20468	65.88658	62.24791	72.83613	74.1974
59.7	63.66041	62.54995	66.92966	67.48271	73.87921	75.2405
60.1	68.89521	68.89521	70.05889	72.71752	77.00844	78.3697
60.1	74.13002	75.24048	75.27429	77.95232	82.22383	83.5851
60.1	79.36482	81.58574	82.57583	83.18713	89.52538	90.8867
75.1	75.74777	73.52685	75.5753	79.55206	82.50442	83.8657
128.7	80.98257	79.87212	76.61838	84.78687	83.5475	84.9088
131.5	86.21738	86.21738	79.74761	90.02167	86.67673	88.038
132.1	91.45219	92.56265	84.963	95.25648	91.89212	93.2534
132.1	96.68699	98.90791	92.26455	100.4913	99.19367	100.555
3.6	-15.4503	-16.0292	-4.90219	-15.8516	-3.69597	-3.88628
6.9	-10.2155	-10.5049	-3.85911	-10.6168	-2.65289	-2.8432
7.4	-4.98069	-4.98069	-0.72988	-5.38195	0.476343	0.28604
7.5	0.254116	0.543564	4.485515	-0.14714	5.691735	5.50143
7.5	5.488922	6.067818	11.78706	5.087665	12.99328	12.803
8	1.871866	1.29297	4.786527	1.452599	5.972317	5.78204
13.9	7.106672	6.817224	5.829605	6.687405	7.015396	6.82512
15.1	12.34148	12.34148	8.95884	11.92221	10.14463	9.95436
15.1	17.57628	17.86573	14.17423	17.15702	15.36002	15.1697
15.1	22.81109	23.38999	21.47578	22.39182	22.66157	22.4713
20.9	36.5162	35.93731	43.5414	36.06091	44.64547	44.4553
29.9	41.75101	41.46156	44.58447	41.29572	45.68855	45.4984
35.3	46.98581	46.98581	47.71371	46.53053	48.81778	48.6276

35.6	52.22062	52.51007	52.9291	51.76533	54.03317	53.843
35.9	57.45543	58.03432	60.23065	57.00014	61.33472	61.1446
6	-3.88773	-4.46663	1.520727	-4.10437	3.529262	3.30169
9.7	1.347077	1.057629	2.563806	1.130435	4.57234	4.34477
11.8	6.581883	6.581883	5.693041	6.36524	7.701575	7.47401
12.3	11.81669	12.10614	10.90843	11.60005	12.91697	12.6894
12.4	17.05149	17.63039	18.20998	16.83485	20.21851	19.9909
12.1	13.43444	12.85554	11.20944	13.19979	13.19755	12.97
22.6	18.66924	18.3798	12.25252	18.43459	14.24063	14.0131
31.9	23.90405	23.90405	15.38176	23.6694	17.36986	17.1423
32.4	29.13886	29.4283	20.59715	28.9042	22.58525	22.3577
32.4	34.37366	34.95256	27.8987	34.13901	29.8868	29.6593
41.2	48.07878	47.49988	49.96431	47.8081	51.8707	51.6433
56.6	53.31358	53.02413	51.00739	53.04291	52.91378	52.6864
79.8	58.54839	58.54839	54.13663	58.27771	56.04301	55.8156
94.4	63.78319	64.07264	59.35202	63.51252	61.25841	61.031
95.1	69.018	69.59689	66.65357	68.74732	68.55995	68.3326
17.4	49.10739	48.5285	56.24591	49.7369	59.34027	59.0031
31	54.3422	54.05275	57.28899	54.97171	60.38334	60.0462
41.6	59.57701	59.57701	60.41822	60.20651	63.51258	63.1754
48.7	64.81181	65.10126	65.63361	65.44132	68.72797	68.3908
50.3	70.04662	70.62551	72.93516	70.67613	76.02952	75.6924
42.1	66.42956	65.85067	65.93462	67.04106	69.00855	68.6715
71.8	71.66437	71.37492	66.9777	72.27587	70.05163	69.7145
99.5	76.89917	76.89917	70.10694	77.51067	73.18087	72.8438
125.4	82.13398	82.42343	75.32233	82.74548	78.39626	78.0592
126.7	87.36879	87.94768	82.62388	87.98028	85.69781	85.3607
3.3	-11.276	-11.8549	-2.51179	-11.6734	-1.31943	-0.63302
3.9	-6.04121	-6.33066	-1.46871	-6.4386	-0.27635	0.41006
4	-0.8064	-0.8064	1.660521	-1.20379	2.852888	3.53929
4	4.428404	4.717852	6.875913	4.031014	8.06828	8.75469
4	9.66321	10.24211	14.17746	9.26582	15.36983	16.0562
7.9	6.046155	5.467259	7.176925	5.630754	8.348862	9.0353
14.1	11.28096	10.99151	8.220003	10.86556	9.391941	10.0784
14.8	16.51577	16.51577	11.34924	16.10037	12.52118	13.2076
14.9	21.75057	22.04002	16.56463	21.33517	17.73657	18.423
14.9	26.98538	27.56427	23.86618	26.56998	25.03812	25.7246
23.6	40.69049	40.11159	45.93179	40.23907	47.02201	47.7086
31.7	45.9253	45.63585	46.97487	45.47387	48.06509	48.7517
37.1	51.1601	51.1601	50.10411	50.70868	51.19433	51.8809
37.2	56.39491	56.68436	55.3195	55.94349	56.40972	57.0963
37.2	61.62971	62.20861	62.62105	61.17829	63.71127	64.3978
6.4	0.286559	-0.29234	3.911125	0.073783	5.905807	6.55495
12.4	5.521365	5.231917	4.954204	5.308589	6.948885	7.59803
14.9	10.75617	10.75617	8.083439	10.54339	10.07812	10.7273
15	15.99098	16.28042	13.29883	15.7782	15.29351	15.9427
15.1	21.22578	21.80468	20.60038	21.01301	22.59506	23.2442

13.3	17.60873	17.02983	13.59984	17.37794	15.57409	16.2233
25.9	22.84353	22.55409	14.64292	22.61275	16.61717	17.2664
33.7	28.07834	28.07834	17.77216	27.84755	19.74641	20.3956
34	33.31314	33.60259	22.98755	33.08236	24.9618	25.611
34.1	38.54795	39.12685	30.2891	38.31716	32.26335	32.9125
48.1	52.25306	51.67417	52.35471	51.98626	54.24725	54.8966
70.3	57.48787	57.19842	53.39779	57.22106	55.29032	55.9396
88.9	62.72268	62.72268	56.52703	62.45587	58.41956	59.0689
95.3	67.95748	68.24693	61.74242	67.69067	63.63495	64.2843
95.5	73.19229	73.77118	69.04397	72.92548	70.9365	71.5858
21.5	53.28168	52.70279	58.6363	53.91506	61.71681	62.2564
37.9	58.51649	58.22704	59.67938	59.14986	62.75989	63.2995
53.8	63.75129	63.75129	62.80862	64.38467	65.88912	66.4287
54.4	68.9861	69.27555	68.02401	69.61947	71.10452	71.6441
54.7	74.22091	74.7998	75.32556	74.85428	78.40606	78.9456
72.3	70.60385	70.02495	68.32502	71.21921	71.3851	71.9247
99.9	75.83866	75.54921	69.3681	76.45402	72.42818	72.9678
125.9	81.07346	81.07346	72.49734	81.68883	75.55741	76.097
127	86.30827	86.59772	77.71273	86.92363	80.7728	81.3124
127.3	91.54307	92.12197	85.01428	92.15844	88.07435	88.614
3.1	-8.49315	-9.07205	1.737804	-8.88797	2.905544	3.68494
3.3	-3.25835	-3.5478	2.780883	-3.65316	3.948622	4.72802
3.3	1.976457	1.976457	5.910118	1.581644	7.077857	7.85725
3.4	7.211263	7.500711	11.12551	6.81645	12.29325	13.0726
3.4	12.44607	13.02496	18.42706	12.05126	19.5948	20.3742
7.9	8.829014	8.250118	11.42652	8.41619	12.57383	13.3533
14.8	14.06382	13.77437	12.4696	13.651	13.61691	14.3963
15	19.29863	19.29863	15.59883	18.8858	16.74614	17.5256
15.1	24.53343	24.82288	20.81423	24.12061	21.96154	22.741
15.1	29.76824	30.34713	28.11577	29.35541	29.26308	30.0425
25.7	43.47335	42.89445	50.18139	43.0245	51.24698	52.0266
34.9	48.70816	48.41871	51.22447	48.25931	52.29006	53.0696
35.3	53.94296	53.94296	54.3537	53.49412	55.4193	56.1989
36.1	59.17777	59.46722	59.5691	58.72892	60.63469	61.4143
36.3	64.41257	64.99147	66.87064	63.96373	67.93624	68.7158
7.1	3.069418	2.490522	8.160722	2.859219	10.13078	10.8729
15.8	8.304224	8.014776	9.2038	8.094025	11.17385	11.916
16	13.53903	13.53903	12.33304	13.32883	14.30309	15.0452
16.1	18.77384	19.06328	17.54843	18.56364	19.51848	20.2606
16.1	24.00864	24.58754	24.84998	23.79844	26.82003	27.5622
16.3	20.39159	19.81269	17.84944	20.16338	19.79906	20.5412
32.3	25.62639	25.33694	18.89252	25.39818	20.84214	21.5843
35.9	30.8612	30.8612	22.02175	30.63299	23.97138	24.7135
36.1	36.096	36.38545	27.23714	35.86779	29.18677	29.9289
36.3	41.33081	41.90971	34.53869	41.1026	36.48832	37.2305
62.3	55.03592	54.45703	56.60431	54.77169	58.47221	59.2145
89.7	60.27073	59.98128	57.64739	60.0065	59.51529	60.2576

99.1	65.50553	65.50553	60.77662	65.2413	62.64453	63.3868
99.8	70.74034	71.02979	65.99201	70.47611	67.85992	68.6022
100	75.97515	76.55404	73.29356	75.71091	75.16147	75.9038
21.6	56.06454	55.48565	62.8859	56.70049	65.94178	66.5743
38.3	61.29935	61.0099	63.92898	61.9353	66.98486	67.6174
54.9	66.53415	66.53415	67.05821	67.1701	70.11409	70.7467
55.3	71.76896	72.05841	72.27361	72.40491	75.32948	75.9621
55.6	77.00377	77.58266	79.57515	77.63972	82.63103	83.2636
74.4	73.38671	72.80781	72.57462	74.00465	75.61007	76.2427
101.3	78.62152	78.33207	73.6177	79.23946	76.65315	77.2857
125.9	83.85632	83.85632	76.74693	84.47426	79.78238	80.415
126.1	89.09113	89.38058	81.96232	89.70907	84.99777	85.6304
126.2	94.32593	94.90483	89.26387	94.94387	92.29932	92.9319
3.7	-16.1768	-16.2504	-5.39226	-16.2011	-3.98037	-3.91827
6.8	-10.942	-10.9788	-4.34918	-10.9663	-2.93729	-2.87519
7.5	-5.70717	-5.70717	-1.21994	-5.7315	0.191944	0.25404
7.6	-0.47236	-0.43553	3.995448	-0.49669	5.407336	5.46943
7.7	4.762442	4.836101	11.297	4.738116	12.70888	12.771
7.9	1.145387	1.071728	4.29646	1.10305	5.687919	5.75005
11.8	6.380193	6.343363	5.339539	6.337856	6.730997	6.79313
13.4	11.615	11.615	8.468774	11.57266	9.860232	9.92236
13.6	16.8498	16.88663	13.68417	16.80747	15.07562	15.1378
13.7	22.08461	22.15827	20.98571	22.04227	22.37717	22.4393
18.6	35.78972	35.71606	43.05133	35.71137	44.36107	44.4233
26.7	41.02453	40.9877	44.09441	40.94617	45.40415	45.4664
33.8	46.25933	46.25933	47.22364	46.18098	48.53338	48.5957
35.7	51.49414	51.53097	52.43903	51.41578	53.74877	53.811
37.1	56.72895	56.8026	59.74058	56.65059	61.05032	61.1126
5.9	-4.61421	-4.68787	1.030661	-4.69703	2.741892	2.78492
10.1	0.620597	0.583768	2.073739	0.537779	3.784971	3.82799
11.5	5.855403	5.855403	5.202974	5.772584	6.914206	6.95723
11.7	11.09021	11.12704	10.41837	11.00739	12.1296	12.1726
11.9	16.32501	16.39867	17.71991	16.2422	19.43115	19.4742
12	12.70796	12.6343	10.71938	12.60713	12.41018	12.4532
22.1	17.94277	17.90594	11.76246	17.84194	13.45326	13.4963
30.3	23.17757	23.17757	14.89169	23.07674	16.58249	16.6256
31.1	28.41238	28.44921	20.10708	28.31155	21.79788	21.8409
31.2	33.64718	33.72084	27.40863	33.54635	29.09943	29.1425
40.4	47.3523	47.27864	49.47425	47.21545	51.08333	51.1265
61.7	52.5871	52.55027	50.51733	52.45025	52.12641	52.1696
80.4	57.82191	57.82191	53.64656	57.68506	55.25564	55.2988
95.1	63.05671	63.09354	58.86195	62.91986	60.47104	60.5142
96	68.29152	68.36518	66.1635	68.15467	67.77258	67.8158
17.5	48.38092	48.30726	55.75584	48.03001	56.24761	56.2644
30.7	53.61572	53.57889	56.79892	53.26481	57.29069	57.3075
41.1	58.85053	58.85053	59.92815	58.49962	60.41993	60.4367
47.9	64.08533	64.12216	65.14355	63.73442	65.63532	65.6521

50	69.32014	69.3938	72.44509	68.96923	72.93687	72.9537
41.4	65.70308	65.62942	65.44456	65.33416	65.9159	65.9327
70.9	70.93789	70.90106	66.48764	70.56897	66.95898	66.9758
96.9	76.17269	76.17269	69.61687	75.80377	70.08822	70.1051
123.8	81.4075	81.44433	74.83226	81.03858	75.30361	75.3204
125.2	86.64231	86.71596	82.13381	86.27339	82.60516	82.622
3.4	-12.0025	-12.0762	-3.00186	-12.023	-1.60382	-1.11926
4.1	-6.76769	-6.80452	-1.95878	-6.78815	-0.56075	-0.07618
4.1	-1.53288	-1.53288	1.170454	-1.55334	2.568489	3.05306
4.2	3.701925	3.738754	6.385846	3.681465	7.783881	8.26845
4.3	8.93673	9.010389	13.68739	8.91627	15.08543	15.57
8.1	5.319675	5.246017	6.686858	5.281205	8.064464	8.54907
13.8	10.55448	10.51765	7.729937	10.51601	9.107542	9.59215
14.9	15.78929	15.78929	10.85917	15.75082	12.23678	12.7214
15.1	21.02409	21.06092	16.07456	20.98562	17.45217	17.9368
15.3	26.2589	26.33256	23.37611	26.22043	24.75372	25.2383
23.3	39.96401	39.89035	45.44173	39.88952	46.73761	47.2224
32.1	45.19882	45.16199	46.48481	45.12433	47.78069	48.2654
37.6	50.43362	50.43362	49.61404	50.35913	50.90993	51.3947
38	55.66843	55.70526	54.82943	55.59394	56.12532	56.6101
38.2	60.90323	60.97689	62.13098	60.82874	63.42687	63.9116
6.1	-0.43992	-0.51358	3.421059	-0.51887	5.118437	5.58393
12.2	4.794885	4.758056	4.464137	4.715933	6.161516	6.62701
13.9	10.02969	10.02969	7.593372	9.950739	9.290751	9.75624
14.1	15.2645	15.30133	12.80876	15.18554	14.50614	14.9716
14.4	20.4993	20.57296	20.11031	20.42035	21.80769	22.2732
13.4	16.88225	16.80859	13.10978	16.78528	14.78672	15.2523
24.8	22.11705	22.08022	14.15285	22.02009	15.8298	16.2953
33.1	27.35186	27.35186	17.28209	27.2549	18.95904	19.4246
33.7	32.58667	32.62349	22.49748	32.4897	24.17443	24.64
33.9	37.82147	37.89513	29.79903	37.72451	31.47598	31.9415
46.5	51.52658	51.45293	51.86465	51.3936	53.45988	53.9255
69.1	56.76139	56.72456	52.90772	56.62841	54.50295	54.9686
87.6	61.9962	61.9962	56.03696	61.86321	57.63219	58.0979
94.1	67.231	67.26783	61.25235	67.09802	62.84758	63.3132
94.2	72.46581	72.53947	68.5539	72.33282	70.14913	70.6148
21.4	52.5552	52.48154	58.14624	52.20816	58.62416	59.0634
37.3	57.79001	57.75318	59.18932	57.44297	59.66724	60.1065
53.5	63.02481	63.02481	62.31855	62.67777	62.79647	63.2357
54.1	68.25962	68.29645	67.53394	67.91258	68.01186	68.4511
54.5	73.49443	73.56809	74.83549	73.14738	75.31341	75.7527
71.4	69.87737	69.80371	67.83496	69.51232	68.29245	68.7318
98.6	75.11218	75.07535	68.87803	74.74712	69.33553	69.7748
121.6	80.34698	80.34698	72.00727	79.98193	72.46476	72.9041
124.2	85.58179	85.61862	77.22266	85.21673	77.68015	78.1195
124.7	90.81659	90.89025	84.52421	90.45154	84.9817	85.421
3	-9.21963	-9.29329	1.247737	-9.23752	2.621145	2.89587

3.1	-3.98483	-4.02166	2.290816	-4.00271	3.664223	3.93895
3.2	1.249978	1.249978	5.420051	1.232095	6.793458	7.06819
3.3	6.484784	6.521613	10.63544	6.466901	12.00885	12.2836
3.3	11.71959	11.79325	17.93699	11.70171	19.3104	19.5851
8	8.102534	8.028876	10.93645	8.066641	12.28943	12.5642
14.7	13.33734	13.30051	11.97953	13.30145	13.33251	13.6073
15	18.57215	18.57215	15.10877	18.53625	16.46175	16.7365
15.3	23.80695	23.84378	20.32416	23.77106	21.67714	21.9519
15.5	29.04176	29.11542	27.62571	29.00586	28.97869	29.2534
25.6	42.74687	42.67321	49.69132	42.67496	50.96258	51.2375
35.2	47.98168	47.94485	50.7344	47.90976	52.00566	52.2806
36	53.21648	53.21648	53.86364	53.14457	55.1349	55.4098
36.2	58.45129	58.48812	59.07903	58.37937	60.35029	60.6252
36.4	63.68609	63.75975	66.38058	63.61418	67.65184	67.9267
6.8	2.342938	2.26928	7.670655	2.266563	9.343406	9.59906
14.9	7.577744	7.540915	8.713733	7.501369	10.38648	10.6421
15.3	12.81255	12.81255	11.84297	12.73617	13.51572	13.7714
15.5	18.04736	18.08419	17.05836	17.97098	18.73111	18.9868
15.7	23.28216	23.35582	24.35991	23.20579	26.03266	26.2883
16.5	19.66511	19.59145	17.35937	19.57072	19.01169	19.2674
31.9	24.89991	24.86308	18.40245	24.80553	20.05477	20.3105
36.3	30.13472	30.13472	21.53169	30.04033	23.18401	23.4397
36.4	35.36952	35.40635	26.74708	35.27514	28.3994	28.6551
36.5	40.60433	40.67799	34.04863	40.50994	35.70095	35.9566
48.5	54.30944	54.23578	56.11424	54.17904	57.68484	57.9407
88.1	59.54425	59.50742	57.15732	59.41384	58.72792	58.9838
97.7	64.77905	64.77905	60.28655	64.64865	61.85716	62.113
98	70.01386	70.05069	65.50195	69.88345	67.07255	67.3284
98.2	75.24867	75.32232	72.80349	75.11826	74.3741	74.6299
21.4	55.33806	55.2644	62.39583	54.9936	62.84913	63.0786
38.1	60.57287	60.53604	63.43891	60.2284	63.89221	64.1216
53.7	65.80767	65.80767	66.56815	65.46321	67.02144	67.2509
53.9	71.04248	71.07931	71.78354	70.69801	72.23683	72.4663
54.2	76.27729	76.35094	79.08509	75.93282	79.53838	79.7678
72	72.66023	72.58657	72.08455	72.29775	72.51742	72.7469
103.9	77.89504	77.85821	73.12763	77.53256	73.56049	73.79
121.8	83.12984	83.12984	76.25687	82.76736	76.68973	76.9192
122.1	88.36465	88.40148	81.47226	88.00217	81.90512	82.1346
122.5	93.59945	93.67311	88.77381	93.23698	89.20667	89.4361
3.4	-16.9033	-16.4717	-5.67846	-16.5507	-4.72186	-4.49155
6.5	-11.6685	-11.4527	-4.63538	-11.3159	-3.67878	-3.44847
7	-6.43365	-6.43365	-1.50614	-6.08104	-0.54954	-0.31924
7.1	-1.19884	-1.41463	3.709249	-0.84624	4.665849	4.89616
7.2	4.035963	3.604383	11.0108	4.388567	11.9674	12.1977
7.6	0.418907	0.850486	4.010261	0.753501	4.946431	5.17677
13.1	5.653713	5.869503	5.05334	5.988307	5.98951	6.21985
14.8	10.88852	10.88852	8.182575	11.22311	9.118745	9.34909

15.1	16.12332	15.90754	13.39797	16.45792	14.33414	14.5645
15.2	21.35813	20.92655	20.69951	21.69272	21.63568	21.866
20.7	35.06324	35.49482	42.76513	35.36182	43.61958	43.8501
28.6	40.29805	40.51384	43.80821	40.59662	44.66266	44.8931
34.1	45.53286	45.53286	46.93744	45.83143	47.7919	48.0224
35.2	50.76766	50.55187	52.15284	51.06623	53.00729	53.2378
35.3	56.00247	55.57089	59.45438	56.30104	60.30884	60.5393
5.5	-5.34069	-4.90911	0.744462	-5.28968	1.497434	1.72685
9.8	-0.10588	0.109907	1.78754	-0.05488	2.540513	2.76993
11.7	5.128923	5.128923	4.916775	5.179928	5.669748	5.89916
11.9	10.36373	10.14794	10.13217	10.41473	10.88514	11.1146
12	15.59853	15.16696	17.43372	15.64954	18.18669	18.4161
11.7	11.98148	12.41306	10.43318	12.01447	11.16572	11.3952
21.9	17.21629	17.43208	11.47626	17.24928	12.2088	12.4383
29	22.45109	22.45109	14.60549	22.48409	15.33804	15.5675
29.7	27.6859	27.47011	19.82088	27.71889	20.55343	20.7829
29.8	32.9207	32.48912	27.12243	32.9537	27.85498	28.0844
39.7	46.62582	47.0574	49.18805	46.62279	49.83887	50.0685
54.3	51.86062	52.07641	50.23113	51.85759	50.88195	51.1115
68.7	57.09543	57.09543	53.36036	57.0924	54.01119	54.2408
80.6	62.33023	62.11444	58.57575	62.32721	59.22658	59.4562
81.3	67.56504	67.13346	65.8773	67.56201	66.52813	66.7577
17.1	47.65444	48.08601	55.46964	46.32311	52.69787	52.9844
29.8	52.88924	53.10503	56.51272	51.55791	53.74095	54.0275
40.3	58.12405	58.12405	59.64195	56.79272	56.87019	57.1567
47.7	63.35885	63.14306	64.85735	62.02753	62.08558	62.3721
48.5	68.59366	68.16208	72.15889	67.26233	69.38713	69.6737
41.3	64.9766	65.40818	65.15836	63.62727	62.36616	62.6527
69.7	70.21141	70.4272	66.20144	68.86207	63.40924	63.6958
98.6	75.44622	75.44622	69.33067	74.09688	66.53848	66.8251
123.2	80.68102	80.46523	74.54606	79.33168	71.75387	72.0404
125.8	85.91583	85.48425	81.84761	84.56649	79.05542	79.342
3.4	-12.729	-12.2974	-3.28806	-12.3725	-2.34531	-2.14678
4	-7.49417	-7.27838	-2.24498	-7.1377	-1.30223	-1.1037
4.1	-2.25936	-2.25936	0.884255	-1.90289	1.827002	2.02554
4.2	2.975445	2.759655	6.099647	3.331916	7.042394	7.24093
4.2	8.210251	7.778672	13.4012	8.566721	14.34394	14.5425
7.4	4.593196	5.024775	6.400659	4.931656	7.322976	7.52154
13.5	9.828001	10.04379	7.443738	10.16646	8.366055	8.56462
14.6	15.06281	15.06281	10.57297	15.40127	11.49529	11.6939
14.7	20.29761	20.08182	15.78836	20.63607	16.71068	16.9092
14.7	25.53242	25.10084	23.08991	25.87088	24.01223	24.2108
21.2	39.23753	39.66911	45.15553	39.53997	45.99613	46.1948
29.6	44.47234	44.68813	46.19861	44.77478	47.03921	47.2379
35.3	49.70714	49.70714	49.32784	50.00958	50.16844	50.3671
35.7	54.94195	54.72616	54.54323	55.24439	55.38383	55.5825
35.8	60.17676	59.74518	61.84478	60.47919	62.68538	62.8841

6.3	-1.1664	-0.73482	3.13486	-1.11153	3.873979	4.07162
12.4	4.068406	4.284195	4.177938	4.123277	4.917058	5.1147
14.6	9.303212	9.303212	7.307173	9.358083	8.046293	8.24394
14.8	14.53802	14.32223	12.52256	14.59289	13.26168	13.4593
14.9	19.77282	19.34124	19.82411	19.82769	20.56323	20.7609
12.9	16.15577	16.58735	12.82358	16.19263	13.54227	13.7399
25.1	21.39057	21.60636	13.86666	21.42743	14.58535	14.783
33.5	26.62538	26.62538	16.99589	26.66224	17.71458	17.9123
33.7	31.86019	31.6444	22.21128	31.89705	22.92997	23.1277
33.8	37.09499	36.66341	29.51283	37.13185	30.23152	30.4292
44.3	50.8001	51.23168	51.57845	50.80094	52.21542	52.4132
68.9	56.03491	56.2507	52.62152	56.03575	53.2585	53.4563
89.6	61.26972	61.26972	55.75076	61.27055	56.38773	56.5855
91.3	66.50452	66.28873	60.96615	66.50536	61.60312	61.8009
91.8	71.73933	71.30775	68.2677	71.74017	68.90467	69.1025
20.8	51.82872	52.2603	57.86004	50.50126	55.07442	55.3292
36.3	57.06353	57.27932	58.90312	55.73607	56.1175	56.3723
50.2	62.29834	62.29834	62.03235	60.97087	59.24673	59.5015
51.9	67.53314	67.31735	67.24774	66.20568	64.46212	64.7169
53.3	72.76795	72.33637	74.54929	71.44049	71.76367	72.0184
71.2	69.15089	69.58247	67.54876	67.80542	64.74271	64.9975
100.6	74.3857	74.60149	68.59183	73.04023	65.78579	66.0406
126.9	79.6205	79.6205	71.72107	78.27503	68.91502	69.1698
128.3	84.85531	84.63952	76.93646	83.50984	74.13041	74.3852
129.7	90.09012	89.65854	84.23801	88.74464	81.43196	81.6868
3	-9.94611	-9.51453	0.961538	-9.58707	1.879658	1.56552
3.3	-4.71131	-4.49552	2.004617	-4.35226	2.922736	2.6086
3.4	0.523498	0.523498	5.133852	0.882546	6.051971	5.73783
3.4	5.758304	5.542514	10.34924	6.117352	11.26736	10.9532
3.4	10.99311	10.56153	17.65079	11.35216	18.56891	18.2548
7.6	7.376055	7.807634	10.65026	7.717092	11.54795	11.2338
14.3	12.61086	12.82665	11.69333	12.9519	12.59102	12.2769
14.6	17.84567	17.84567	14.82257	18.1867	15.72026	15.4062
14.7	23.08047	22.86468	20.03796	23.42151	20.93565	20.6215
14.8	28.31528	27.8837	27.33951	28.65632	28.2372	27.9231
23.1	42.02039	42.45197	49.40512	42.32541	50.2211	49.9071
34.7	47.2552	47.47099	50.4482	47.56021	51.26417	50.9502
35.7	52.49	52.49	53.57744	52.79502	54.39341	54.0794
35.8	57.72481	57.50902	58.79283	58.02982	59.6088	59.2948
35.9	62.95961	62.52803	66.09438	63.26463	66.91035	66.5964
7.2	1.616459	2.048038	7.384456	1.673907	8.098948	7.78392
15.6	6.851265	7.067054	8.427534	6.908713	9.142026	8.827
15.7	12.08607	12.08607	11.55677	12.14352	12.27126	11.9562
15.8	17.32088	17.10509	16.77216	17.37832	17.48665	17.1716
15.8	22.55568	22.1241	24.07371	22.61313	24.7882	24.4732
16.1	18.93863	19.37021	17.07317	18.97806	17.76724	17.4522
29.2	24.17343	24.38922	18.11625	24.21287	18.81031	18.4953

36.3	29.40824	29.40824	21.24549	29.44768	21.93955	21.6246
36.4	34.64304	34.42725	26.46088	34.68248	27.15494	26.8399
36.5	39.87785	39.44627	33.76243	39.91729	34.45649	34.1415
60.8	53.58296	54.01454	55.82804	53.58638	56.44039	56.1255
88.3	58.81777	59.03356	56.87112	58.82119	57.48347	57.1686
99.1	64.05257	64.05257	60.00036	64.05599	60.6127	60.2978
99.3	69.28738	69.07159	65.21575	69.2908	65.82809	65.5132
99.5	74.52219	74.09061	72.5173	74.5256	73.12964	72.8148
21.7	54.61158	55.04316	62.10964	53.2867	59.29939	59.0415
37.8	59.84639	60.06218	63.15271	58.52151	60.34247	60.0846
54.1	65.08119	65.08119	66.28195	63.75631	63.4717	63.2138
54.3	70.316	70.10021	71.49734	68.99112	68.68709	68.4292
54.3	75.55081	75.11923	78.79889	74.22592	75.98864	75.7307
73.1	71.93375	72.36533	71.79835	70.59086	68.96768	68.7098
101.3	77.16856	77.38435	72.84143	75.82566	70.01075	69.7529
126.3	82.40336	82.40336	75.97067	81.06047	73.13999	72.8821
126.6	87.63817	87.42238	81.18606	86.29527	78.35538	78.0975
127	92.87297	92.44139	88.48761	91.53008	85.65693	85.3991
3.3	-17.3503	-16.6078	-5.75325	-16.7658	-5.40535	-5.11338
6.4	-12.1155	-11.7443	-4.71017	-11.531	-4.36227	-4.0703
7.1	-6.88071	-6.88071	-1.58093	-6.29615	-1.23303	-0.94107
7.2	-1.64591	-2.01715	3.634457	-1.06135	3.982357	4.27433
7.4	3.588898	2.846404	10.93601	4.17346	11.28391	11.5759
7.3	-0.02816	0.714338	3.93547	0.538394	4.26294	4.55494
10.9	5.206649	5.577896	4.978548	5.7732	5.306018	5.59802
13.1	10.44145	10.44145	8.107783	11.00801	8.435253	8.72726
13.5	15.67626	15.30501	13.32317	16.24281	13.65064	13.9426
13.6	20.91107	20.16857	20.62472	21.47762	20.95219	21.2442
17.8	34.61618	35.35867	42.69034	35.14671	42.93609	43.2282
25.9	39.85098	40.22223	43.73342	40.38151	43.97917	44.2713
33.1	45.08579	45.08579	46.86265	45.61632	47.1084	47.4005
33.5	50.3206	49.94935	52.07804	50.85113	52.3238	52.6159
33.8	55.5554	54.81291	59.37959	56.08593	59.62534	59.9175
5.3	-5.78775	-5.04526	0.66967	-5.65439	0.504422	0.80669
8.9	-0.55295	-0.1817	1.712748	-0.41959	1.5475	1.84977
11.3	4.681859	4.681859	4.841983	4.815217	4.676735	4.97901
11.5	9.916665	9.545418	10.05737	10.05002	9.892127	10.1944
11.5	15.15147	14.40898	17.35892	15.28483	17.19368	17.4959
11.3	11.53442	12.27691	10.35839	11.64976	10.17271	10.475
21.8	16.76922	17.14047	11.40147	16.88457	11.21579	11.5181
29.7	22.00403	22.00403	14.5307	22.11937	14.34502	14.6473
30	27.23883	26.86759	19.74609	27.35418	19.56041	19.8627
30.2	32.47364	31.73114	27.04764	32.58899	26.86196	27.1643
37.7	46.17875	46.92125	49.11326	46.25808	48.84586	49.1483
56.4	51.41356	51.7848	50.15633	51.49288	49.88894	50.1914
65.8	56.64836	56.64836	53.28557	56.72769	53.01817	53.3206
78.4	61.88317	61.51192	58.50096	61.96249	58.23357	58.536

80	67.11797	66.37548	65.80251	67.1973	65.53511	65.8376
16.9	47.20737	47.94987	55.39485	45.27271	50.28623	50.6969
28.6	52.44218	52.81342	56.43793	50.50752	51.3293	51.74
39.1	57.67698	57.67698	59.56716	55.74232	54.45854	54.8692
46.3	62.91179	62.54054	64.78255	60.97713	59.67393	60.0846
48.1	68.14659	67.4041	72.0841	66.21193	66.97548	67.3862
40.9	64.52954	65.27203	65.08357	62.57687	59.95451	60.3652
67.4	69.76434	70.13559	66.12664	67.81167	60.99759	61.4083
95.1	74.99915	74.99915	69.25588	73.04648	64.12683	64.5375
121.6	80.23396	79.86271	74.47127	78.28129	69.34222	69.7529
123.1	85.46876	84.72627	81.77282	83.51609	76.64377	77.0545
3.2	-13.176	-12.4335	-3.36285	-12.5876	-3.0288	-3.04814
3.6	-7.94123	-7.56998	-2.31977	-7.3528	-1.98572	-2.00506
3.7	-2.70643	-2.70643	0.809464	-2.118	1.14351	1.12417
3.8	2.528381	2.157133	6.024855	3.116808	6.358902	6.33956
4	7.763187	7.020692	13.3264	8.351614	13.66045	13.6411
7.1	4.146131	4.888626	6.325868	4.716548	6.639485	6.62018
13.3	9.380937	9.752184	7.368946	9.951354	7.682563	7.66326
14.6	14.61574	14.61574	10.49818	15.18616	10.8118	10.7925
14.7	19.85055	19.4793	15.71357	20.42097	16.02719	16.0079
14.7	25.08535	24.34286	23.01512	25.65577	23.32874	23.3094
19.9	38.79047	39.53296	45.08074	39.32486	45.31264	45.2935
28.1	44.02527	44.39652	46.12382	44.55967	46.35571	46.3366
36	49.26008	49.26008	49.25305	49.79447	49.48495	49.4658
36.3	54.49488	54.12364	54.46844	55.02928	54.70034	54.6812
36.5	59.72969	58.9872	61.76999	60.26409	62.00189	61.9827
5.9	-1.61346	-0.87097	3.060068	-1.47624	2.880967	2.87193
11	3.621341	3.992589	4.103146	3.758565	3.924045	3.91501
13.7	8.856147	8.856147	7.232381	8.993371	7.05328	7.04424
14	14.09095	13.71971	12.44777	14.22818	12.26867	12.2596
14.1	19.32576	18.58326	19.74932	19.46298	19.57022	19.5612
12.4	15.7087	16.4512	12.74879	15.82792	12.54925	12.5403
23.9	20.94351	21.31476	13.79186	21.06272	13.59233	13.5833
32.7	26.17832	26.17832	16.9211	26.29753	16.72157	16.7126
32.9	31.41312	31.04187	22.13649	31.53233	21.93696	21.928
33	36.64793	35.90543	29.43804	36.76714	29.23851	29.2295
41.9	50.35304	51.09553	51.50365	50.43623	51.22241	51.2135
59.7	55.58785	55.95909	52.54673	55.67104	52.26548	52.2566
78.1	60.82265	60.82265	55.67597	60.90584	55.39472	55.3859
91.1	66.05746	65.68621	60.89136	66.14065	60.61011	60.6012
91.6	71.29226	70.54977	68.19291	71.37546	67.91166	67.9028
20.6	51.38166	52.12415	57.78525	49.45087	52.66277	52.7621
36.5	56.61647	56.98771	58.82833	54.68567	53.70585	53.8052
51.1	61.85127	61.85127	61.95756	59.92048	56.83508	56.9345
53.2	67.08608	66.71483	67.17295	65.15528	62.05048	62.1499
54.8	72.32088	71.57839	74.4745	70.39009	69.35203	69.4514
69.4	68.70383	69.44632	67.47396	66.75502	62.33106	62.4305

95.7	73.93863	74.30988	68.51704	71.98983	63.37414	63.4736
121.2	79.17344	79.17344	71.64628	77.22463	66.50337	66.6028
125.1	84.40824	84.037	76.86167	82.45944	71.71876	71.8182
126	89.64305	88.90056	84.16322	87.69425	79.02031	79.1197
3.1	-10.3932	-9.65068	0.886747	-9.80217	1.196166	0.4778
3.1	-5.15837	-4.78712	1.929825	-4.56737	2.239244	1.52088
3.2	0.076434	0.076434	5.05906	0.667439	5.368479	4.65011
3.2	5.31124	4.939992	10.27445	5.902245	10.58387	9.86551
3.2	10.54605	9.803551	17.576	11.13705	17.88542	17.1671
7.3	6.92899	7.671485	10.57546	7.501985	10.86445	10.1461
14.1	12.1638	12.53504	11.61854	12.73679	11.90753	11.1892
14.7	17.3986	17.3986	14.74778	17.9716	15.03677	14.3184
14.8	22.63341	22.26216	19.96317	23.2064	20.25216	19.5338
14.9	27.86821	27.12572	27.26472	28.44121	27.55371	26.8354
21.9	41.57333	42.31582	49.33033	42.1103	49.5376	48.8194
29.8	46.80813	47.17938	50.37341	47.34511	50.58068	49.8625
34.7	52.04294	52.04294	53.50265	52.57991	53.70992	52.9917
35	57.27774	56.9065	58.71804	57.81472	58.92531	58.2071
35.2	62.51255	61.77006	66.01959	63.04952	66.22686	65.5087
6.8	1.169395	1.911889	7.309664	1.309196	7.105936	6.39787
14.7	6.4042	6.775448	8.352743	6.544001	8.149014	7.44095
15	11.63901	11.63901	11.48198	11.77881	11.27825	10.5702
15.2	16.87381	16.50256	16.69737	17.01361	16.49364	15.7856
15.4	22.10862	21.36612	23.99892	22.24842	23.79519	23.0871
15.9	18.49156	19.23406	16.99838	18.61335	16.77422	16.0662
28.9	23.72637	24.09762	18.04146	23.84816	17.8173	17.1093
35.7	28.96117	28.96117	21.17069	29.08296	20.94654	20.2385
36	34.19598	33.82473	26.38609	34.31777	26.16193	25.4539
36.2	39.43079	38.68829	33.68764	39.55258	33.46348	32.7554
59.6	53.1359	53.87839	55.75325	53.22167	55.44737	54.7395
86.3	58.3707	58.74195	56.79633	58.45647	56.49045	55.7826
94.7	63.60551	63.60551	59.92556	63.69128	59.61969	58.9118
96	68.84032	68.46907	65.14096	68.92609	64.83508	64.1272
96.6	74.07512	73.33263	72.4425	74.16089	72.13663	71.4287
20.8	54.16452	54.90701	62.03484	52.2363	56.88774	56.2881
37.1	59.39932	59.77057	63.07792	57.47111	57.93082	57.3312
53.1	64.63413	64.63413	66.20716	62.70591	61.06005	60.4604
53.3	69.86894	69.49769	71.42255	67.94072	66.27545	65.6758
53.5	75.10374	74.36125	78.7241	73.17552	73.57699	72.9773
71.2	71.48669	72.22918	71.72356	69.54046	66.55603	65.9564
99.3	76.72149	77.09274	72.76664	74.77526	67.59911	66.9995
120.5	81.9563	81.9563	75.89587	80.01007	70.72834	70.1287
121.1	87.1911	86.81986	81.11127	85.24488	75.94373	75.3441
121.3	92.42591	91.68342	88.41281	90.47968	83.24528	82.6457
3.1	-17.2036	-16.5632	-5.73722	-16.6952	-5.162	-4.88675
6.4	-11.9688	-11.6486	-4.69414	-11.4604	-4.11892	-3.84367
6.8	-6.73402	-6.73402	-1.5649	-6.22557	-0.98968	-0.71443

6.9	-1.49921	-1.81945	3.650488	-0.99076	4.225708	4.50096
7	3.735591	3.095116	10.95204	4.244042	11.52726	11.8025
7.4	0.118536	0.759011	3.9515	0.608976	4.506291	4.78158
11.6	5.353342	5.673579	4.994579	5.843782	5.549369	5.82466
13.9	10.58815	10.58815	8.123814	11.07859	8.678604	8.95389
14.6	15.82295	15.50272	13.33921	16.31339	13.894	14.1693
15.1	21.05776	20.41728	20.64075	21.5482	21.19554	21.4708
19.1	34.76287	35.40335	42.70637	35.21729	43.17944	43.4549
25.6	39.99768	40.31792	43.74945	40.4521	44.22252	44.4979
31.3	45.23248	45.23248	46.87868	45.6869	47.35176	47.6272
33.2	50.46729	50.14705	52.09407	50.92171	52.56715	52.8426
33.5	55.7021	55.06162	59.39562	56.15651	59.8687	60.1441
5.3	-5.64106	-5.00058	0.685701	-5.53472	0.849335	1.13121
8.8	-0.40625	-0.08602	1.728779	-0.29992	1.892413	2.17429
10.3	4.828552	4.828552	4.858014	4.934888	5.021648	5.30353
11.5	10.06336	9.74312	10.07341	10.16969	10.23704	10.5189
11.6	15.29816	14.65769	17.37495	15.4045	17.53859	17.8205
10.9	11.68111	12.32158	10.37442	11.76943	10.51762	10.7995
18.9	16.91591	17.23615	11.4175	17.00424	11.5607	11.8426
26.5	22.15072	22.15072	14.54673	22.23905	14.68994	14.9719
29.1	27.38553	27.06529	19.76212	27.47385	19.90533	20.1872
29.4	32.62033	31.97986	27.06367	32.70866	27.20688	27.4888
39.5	46.32544	46.96592	49.12929	46.37775	49.19077	49.4728
53.7	51.56025	51.88049	50.17237	51.61255	50.23385	50.5159
66.6	56.79506	56.79506	53.3016	56.84736	53.36309	53.6451
78.4	62.02986	61.70962	58.51699	62.08217	58.57848	58.8605
79.8	67.26467	66.62419	65.81854	67.31697	65.88003	66.1621
16.5	47.35406	47.99454	55.41088	45.61737	51.09663	51.4701
28.7	52.58887	52.90911	56.45396	50.85218	52.13971	52.5132
38.6	57.82368	57.82368	59.58319	56.08698	55.26894	55.6424
46.9	63.05848	62.73824	64.79859	61.32179	60.48433	60.8578
47.7	68.29329	67.65281	72.10013	66.5566	67.78588	68.1593
2.9	-13.0293	-12.3889	-3.34682	-12.517	-2.78545	-2.72979
3.5	-7.79454	-7.4743	-2.30374	-7.28222	-1.74237	-1.68671
3.7	-2.55973	-2.55973	0.825494	-2.04742	1.386862	1.44253
3.7	2.675074	2.354836	6.040886	3.18739	6.602253	6.65792
3.8	7.909879	7.269404	13.34243	8.422196	13.9038	13.9595
7	4.292824	4.9333	6.341898	4.78713	6.882836	6.93854
12.3	9.52763	9.847868	7.384977	10.02194	7.925914	7.98162
14.8	14.76244	14.76244	10.51421	15.25674	11.05515	11.1109
14.8	19.99724	19.677	15.7296	20.49155	16.27054	16.3262
14.9	25.23205	24.59157	23.03115	25.72635	23.57209	23.6278
22	38.93716	39.57764	45.09677	39.39545	45.55599	45.6118
28.7	44.17197	44.4922	46.13985	44.63025	46.59907	46.6549
33.9	49.40677	49.40677	49.26908	49.86506	49.7283	49.7841
35.1	54.64158	54.32134	54.48447	55.09986	54.94369	54.9995
35.3	59.87638	59.23591	61.78602	60.33467	62.24524	62.3011

6	-1.46677	-0.8263	3.076099	-1.35657	3.22588	3.28817
11.3	3.768034	4.088272	4.119177	3.878236	4.268958	4.33125
13.9	9.00284	9.00284	7.248412	9.113042	7.398193	7.46049
14.2	14.23765	13.91741	12.4638	14.34785	12.61358	12.6759
14.5	19.47245	18.83198	19.76535	19.58265	19.91513	19.9774
12.5	15.8554	16.49587	12.76482	15.94759	12.89417	12.9565
23.7	21.0902	21.41044	13.80789	21.18239	13.93725	13.9996
31.4	26.32501	26.32501	16.93713	26.4172	17.06648	17.1288
32	31.55981	31.23958	22.15252	31.65201	22.28187	22.3442
32.5	36.79462	36.15414	29.45407	36.88681	29.58342	29.6458
43.7	50.49973	51.14021	51.51969	50.5559	51.56732	51.6298
66.9	55.73454	56.05478	52.56276	55.79071	52.6104	52.6729
88.1	60.96934	60.96934	55.692	61.02551	55.73963	55.8021
90	66.20415	65.88391	60.90739	66.26032	60.95502	61.0175
90.5	71.43896	70.79848	68.20894	71.49513	68.25657	68.319
20.1	51.52835	52.16883	57.80128	49.79553	53.47317	53.6271
36.2	56.76316	57.0834	58.84436	55.03033	54.51625	54.6701
47.9	61.99796	61.99796	61.97359	60.26514	57.64549	57.7994
52.4	67.23277	66.91253	67.18898	65.49994	62.86088	63.0148
53	72.46758	71.8271	74.49053	70.73475	70.16243	70.3163
2.8	-10.2465	-9.60601	0.902778	-9.73159	1.439517	0.8573
3.1	-5.01168	-4.69144	1.945856	-4.49679	2.482595	1.90038
3.2	0.223127	0.223127	5.075091	0.738021	5.61183	5.02962
3.3	5.457933	5.137695	10.29048	5.972827	10.82722	10.245
3.3	10.69274	10.05226	17.59203	11.20763	18.12877	17.5466
7.1	7.075683	7.716159	10.59149	7.572567	11.1078	10.5256
12.9	12.31049	12.63073	11.63457	12.80737	12.15088	11.5687
13.8	17.54529	17.54529	14.76381	18.04218	15.28012	14.6979
14	22.7801	22.45986	19.9792	23.27698	20.49551	19.9133
14.1	28.01491	27.37443	27.28075	28.51179	27.79706	27.2149
22.4	41.72002	42.36049	49.34636	42.18088	49.78096	49.1989
31.6	46.95483	47.27506	50.38944	47.41569	50.82403	50.242
35.2	52.18963	52.18963	53.51868	52.65049	53.95327	53.3712
35.5	57.42444	57.1042	58.73407	57.8853	59.16866	58.5866
36	62.65924	62.01877	66.03562	63.1201	66.47021	65.8882
7	1.316088	1.956563	7.325695	1.428867	7.450849	6.87527
14.7	6.550893	6.871131	8.368773	6.663672	8.493927	7.91834
15	11.7857	11.7857	11.49801	11.89848	11.62316	11.0476
15.2	17.02051	16.70027	16.7134	17.13328	16.83855	16.263
15.2	22.25531	21.61484	24.01495	22.36809	24.1401	23.5645
15.7	18.63826	19.27873	17.01441	18.73302	17.11914	16.5436
28.6	23.87306	24.1933	18.05749	23.96783	18.16221	17.5867
35.4	29.10787	29.10787	21.18673	29.20264	21.29145	20.7159
35.5	34.34267	34.02244	26.40212	34.43744	26.50684	25.9313
35.7	39.57748	38.937	33.70367	39.67225	33.80839	33.2328
60	53.28259	53.92307	55.76928	53.34134	55.79229	55.2169
86.4	58.5174	58.83764	56.81236	58.57614	56.83537	56.26

97.6	63.7522	63.7522	59.94159	63.81095	59.9646	59.3892
98.5	68.98701	68.66677	65.15699	69.04576	65.17999	64.6046
99.1	74.22182	73.58134	72.45853	74.28056	72.48154	71.9061
20.3	54.31121	54.95169	62.05087	52.58096	57.69814	57.2141
36.6	59.54602	59.86625	63.09395	57.81577	58.74122	58.2572
52.9	64.78082	64.78082	66.22319	63.05057	61.87046	61.3865
53.4	70.01563	69.69539	71.43858	68.28538	67.08585	66.6019
53.6	75.25043	74.60996	78.74013	73.52019	74.3874	73.9034
3	-17.4509	-16.6385	-5.75944	-16.8142	-5.58299	-5.28154
6.3	-12.2161	-11.8099	-4.71636	-11.5794	-4.53991	-4.23846
6.8	-6.9813	-6.9813	-1.58712	-6.34455	-1.41068	-1.10923
6.9	-1.7465	-2.15272	3.628269	-1.10975	3.804716	4.10617
7	3.488309	2.675858	10.92982	4.125061	11.10626	11.4077
6.9	-0.12875	0.683704	3.929281	0.489995	4.085299	4.38678
10.8	5.106059	5.512285	4.97236	5.724801	5.128377	5.42986
13.2	10.34087	10.34087	8.101595	10.95961	8.257612	8.5591
13.8	15.57567	15.16945	13.31699	16.19441	13.473	13.7745
14	20.81048	19.99803	20.61853	21.42922	20.77455	21.076
16.9	34.51559	35.32804	42.68415	35.09831	42.75845	43.0601
23.5	39.7504	40.15662	43.72723	40.33312	43.80153	44.1032
28.1	44.9852	44.9852	46.85646	45.56792	46.93076	47.2324
31.4	50.22001	49.81378	52.07186	50.80273	52.14615	52.4478
32.5	55.45481	54.64236	59.3734	56.03753	59.4477	59.7493
5.2	-5.88834	-5.07589	0.663482	-5.73645	0.257139	0.57141
8.6	-0.65354	-0.24731	1.70656	-0.50165	1.300217	1.61449
10.4	4.581269	4.581269	4.835795	4.733157	4.429453	4.74372
11	9.816075	9.40985	10.05119	9.967963	9.644844	9.95911
11.1	15.05088	14.23843	17.35273	15.20277	16.94639	17.2607
11	11.43383	12.24628	10.3522	11.5677	9.925427	10.2397
19.5	16.66863	17.07486	11.39528	16.80251	10.96851	11.2828
25.3	21.90344	21.90344	14.52451	22.03731	14.09774	14.412
28.9	27.13824	26.73202	19.7399	27.27212	19.31313	19.6274
29.3	32.37305	31.5606	27.04145	32.50693	26.61468	26.929
38	46.07816	46.89061	49.10707	46.17602	48.59858	48.913
52.9	51.31297	51.71919	50.15015	51.41082	49.64166	49.9561
63.7	56.54777	56.54777	53.27938	56.64563	52.77089	53.0853
75.1	61.78258	61.37635	58.49477	61.88043	57.98628	58.3007
78.6	67.01739	66.20493	65.79632	67.11524	65.28783	65.6023
16.4	47.10678	47.91923	55.38866	45.03637	49.71975	50.154
27.3	52.34159	52.74781	56.43174	50.27118	50.76283	51.1971
36.5	57.57639	57.57639	59.56097	55.50598	53.89206	54.3263
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3	-13.2766	-12.4642	-3.36904	-12.636	-3.20644	-3.2792
3.4	-8.04182	-7.6356	-2.32596	-7.4012	-2.16337	-2.23612
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3.7	7.662597	6.850146	13.32022	8.303215	13.48281	13.4101
6.6	4.045542	4.857992	6.319679	4.668149	6.461844	6.38913
12.1	9.280348	9.686573	7.362757	9.902955	7.504922	7.4322
13.9	14.51515	14.51515	10.49199	15.13776	10.63416	10.5614
14	19.74996	19.34373	15.70738	20.37257	15.84955	15.7768
14.2	24.98477	24.17231	23.00893	25.60737	23.1511	23.0784
20.3	38.68988	39.50233	45.07455	39.27646	45.13499	45.0624
27.5	43.92468	44.33091	46.11763	44.51127	46.17807	46.1055
33.6	49.15949	49.15949	49.24686	49.74608	49.30731	49.2347
33.8	54.3943	53.98807	54.46225	54.98088	54.5227	54.4501
34	59.6291	58.81665	61.7638	60.21569	61.82425	61.7517
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12	15.60811	16.42056	12.7426	15.74586	12.30197	12.2421
21.9	20.84292	21.24915	13.78568	20.98066	13.34505	13.2852
29.8	26.07773	26.07773	16.91491	26.21547	16.47429	16.4144
30.9	31.31253	30.90631	22.1303	31.45027	21.68968	21.6298
31.4	36.54734	35.73489	29.43185	36.68508	28.99123	28.9313
40.7	50.25245	51.0649	51.49747	50.35417	50.97512	50.9154
60.6	55.48726	55.89348	52.54054	55.58898	52.0182	51.9584
79.8	60.72206	60.72206	55.66978	60.82378	55.14744	55.0877
90.1	65.95687	65.55064	60.88517	66.05859	60.36283	60.3031
90.8	71.19167	70.37922	68.18672	71.2934	67.66438	67.6046
19.8	51.28107	52.09352	57.77906	49.21453	52.0963	52.1563
35.1	56.51588	56.9221	58.82214	54.44933	53.13937	53.1994
49.6	61.75068	61.75068	61.95137	59.68414	56.26861	56.3286
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13.5	17.29801	17.29801	14.74159	17.9232	14.85913	14.0455
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13.8	27.76762	26.95517	27.25853	28.39281	27.37607	26.5624
20.7	41.47274	42.28519	49.32414	42.0619	49.35996	48.5464
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33.9	51.94235	51.94235	53.49646	52.53151	53.53228	52.7187
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34.6	62.41196	61.59951	66.0134	63.00112	66.04922	65.2357
6.5	1.068805	1.881256	7.303476	1.227136	6.858653	6.05776

13.7	6.303611	6.709836	8.346554	6.461941	7.901731	7.10084
14.7	11.53842	11.53842	11.47579	11.69675	11.03097	10.2301
15.2	16.77322	16.367	16.69118	16.93155	16.24636	15.4455
15.2	22.00803	21.19558	23.99273	22.16636	23.54791	22.747
15.3	18.39097	19.20342	16.99219	18.53129	16.52694	15.7261
27.6	23.62578	24.032	18.03527	23.7661	17.57002	16.7692
33.9	28.86058	28.86058	21.16451	29.0009	20.69925	19.8984
34.1	34.09539	33.68917	26.3799	34.23571	25.91465	25.1138
34.4	39.3302	38.51775	33.68145	39.47052	33.21619	32.4153
57.4	53.03531	53.84776	55.74706	53.13961	55.20009	54.3994
83.1	58.27012	58.67634	56.79014	58.37441	56.24317	55.4425
93.6	63.50492	63.50492	59.91938	63.60922	59.37241	58.5717
95	68.73973	68.3335	65.13477	68.84403	64.5878	63.7871
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19.5	54.06393	54.87638	62.02866	51.99996	56.32126	55.6403
35.4	59.29873	59.70496	63.07173	57.23477	57.36434	56.6834
50.7	64.53354	64.53354	66.20097	62.46957	60.49358	59.8126
51.2	69.76835	69.36212	71.41636	67.70438	65.70897	65.028
51.4	75.00315	74.1907	78.71791	72.93919	73.01052	72.3296
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5.4	-6.82623	-6.82623	-1.57595	-6.26994	-1.14047	-0.85431
5.9	-1.59142	-1.94372	3.639441	-1.03513	4.07492	4.36108
6.2	3.643384	2.938782	10.94099	4.199676	11.37647	11.6626
6.8	0.026329	0.730931	3.940454	0.56461	4.355503	4.6417
11.3	5.261135	5.613436	4.983532	5.799416	5.398581	5.68478
13.2	10.49594	10.49594	8.112767	11.03422	8.527816	8.81401
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14.3	20.96555	20.26095	20.62971	21.50383	21.04476	21.331
19	34.67067	35.37527	42.69532	35.17293	43.02865	43.315
25.3	39.90547	40.25777	43.7384	40.40773	44.07173	44.3581
31.2	45.14028	45.14028	46.86764	45.64254	47.20097	47.4873
33	50.37508	50.02278	52.08303	50.87734	52.41636	52.7027
33.4	55.60989	54.90529	59.38458	56.11215	59.71791	60.0042
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10.8	9.971151	9.61885	10.06236	10.09447	10.02241	10.3175
11	15.20596	14.50135	17.36391	15.32928	17.32396	17.6191
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18.3	16.82371	17.17601	11.40645	16.92902	11.34607	11.6412
25.9	22.05851	22.05851	14.53568	22.16382	14.47531	14.7704
28.4	27.29332	26.94102	19.75108	27.39863	19.6907	19.9858
29	32.52812	31.82352	27.05262	32.63344	26.99225	27.2874
39	46.23324	46.93784	49.11824	46.30253	48.97615	49.2714
52.9	51.46804	51.82034	50.16132	51.53733	50.01923	50.3145
65.2	56.70285	56.70285	53.29055	56.77214	53.14846	53.4437

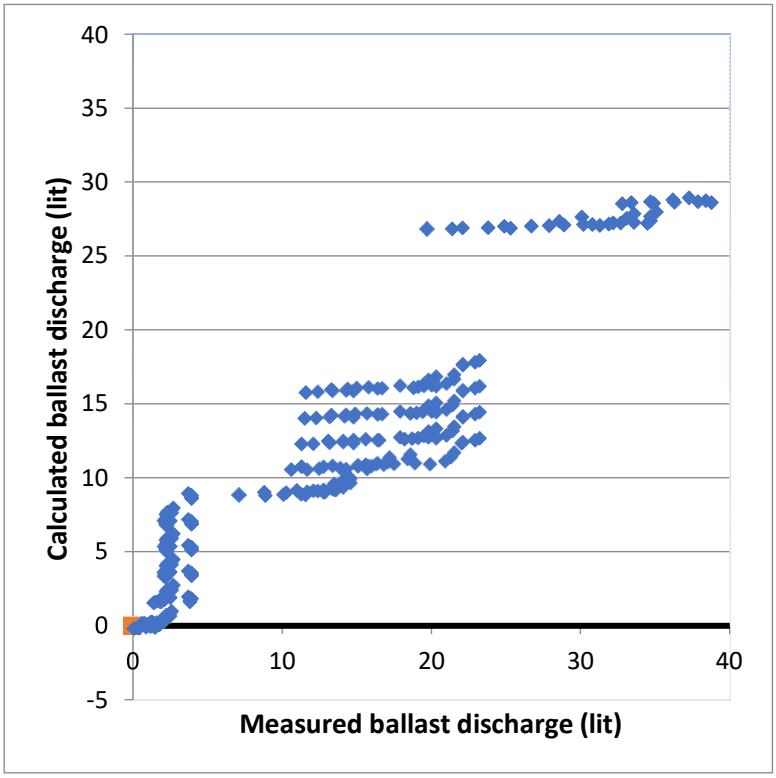
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3.5	7.817672	7.113071	13.33139	8.37783	13.75301	13.7619
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11.9	9.435423	9.787724	7.37393	9.97757	7.775126	7.78408
14.5	14.67023	14.67023	10.50316	15.21238	10.90436	10.9133
14.7	19.90503	19.55273	15.71856	20.44718	16.11975	16.1287
14.8	25.13984	24.43524	23.0201	25.68199	23.4213	23.4303
21.9	38.84495	39.54956	45.08572	39.35108	45.4052	45.4143
28.6	44.07976	44.43206	46.1288	44.58589	46.44828	46.4574
31.7	49.31457	49.31457	49.25803	49.82069	49.57751	49.5866
34.9	54.54937	54.19707	54.47343	55.0555	54.7929	54.802
35.1	59.78418	59.07957	61.77497	60.2903	62.09445	62.1035
5.3	-1.55898	-0.85438	3.065052	-1.43179	3.011253	3.02911
10.2	3.675827	4.028128	4.10813	3.803014	4.054331	4.07219
13.6	8.910633	8.910633	7.237365	9.03782	7.183566	7.20142
14	14.14544	13.79314	12.45276	14.27263	12.39896	12.4168
14.2	19.38024	18.67564	19.75431	19.50743	19.70051	19.7184
12.1	15.76319	16.46779	12.75377	15.87237	12.67954	12.6974
22.6	20.998	21.3503	13.79685	21.10717	13.72262	13.7405
29.2	26.2328	26.2328	16.92608	26.34198	16.85185	16.8697
31	31.46761	31.11531	22.14147	31.57678	22.06725	22.0851
31.3	36.70241	35.99781	29.44302	36.81159	29.36879	29.3867
44.2	50.40753	51.11213	51.50864	50.48068	51.35269	51.3707
65.1	55.64233	55.99463	52.55172	55.71549	52.39577	52.4138
87.3	60.87714	60.87714	55.68095	60.95029	55.52501	55.543
90.1	66.11194	65.75964	60.89634	66.1851	60.7404	60.7584
90.6	71.34675	70.64215	68.19789	71.4199	68.04195	68.06
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3	10.60053	9.89593	17.58098	11.16327	17.97798	17.3106
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11.6	17.45309	17.45309	14.75276	17.99781	15.12933	14.462
11.9	22.68789	22.33559	19.96815	23.23262	20.34472	19.6774
12.2	27.9227	27.2181	27.2697	28.46742	27.64627	26.9789
22	41.62781	42.33241	49.33532	42.13652	49.63017	48.9629
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35	52.09742	52.09742	53.50763	52.60613	53.80248	53.1353
35.3	57.33223	56.97993	58.72302	57.84093	59.01787	58.3507
35.6	62.56704	61.86243	66.02457	63.07574	66.31942	65.6522

6.9	1.223881	1.928482	7.314648	1.353645	7.236222	6.57777
14.5	6.458686	6.810987	8.357727	6.588451	8.2793	7.62084
15.4	11.69349	11.69349	11.48696	11.82326	11.40854	10.7501
15.5	16.9283	16.576	16.70235	17.05806	16.62393	15.9655
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15.1	18.54605	19.25065	17.00337	18.6578	16.90451	16.2461
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33.9	29.01566	29.01566	21.17568	29.12741	21.07682	20.4184
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59.3	53.19038	53.89499	55.75823	53.26612	55.57766	54.9194
86.5	58.42519	58.77749	56.80131	58.50092	56.62074	55.9625
98.6	63.66	63.66	59.93055	63.73573	59.74997	59.0917
100	68.8948	68.5425	65.14594	68.97053	64.96537	64.3071
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1.9	-17.5096	-16.6563	-5.76124	-16.8424	-5.69066	-5.38443
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12.9	10.28219	10.28219	8.09979	10.93137	8.149941	8.45621
13.7	15.51699	15.09036	13.31518	16.16618	13.36533	13.6716
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16.7	34.45691	35.31017	42.68235	35.07008	42.65078	42.9572
23.4	39.69172	40.11835	43.72542	40.30488	43.69386	44.0003
28	44.92652	44.92652	46.85466	45.53969	46.82309	47.1295
31.5	50.16133	49.7347	52.07005	50.77449	52.03848	52.3449
32.4	55.39614	54.54288	59.3716	56.0093	59.34003	59.6464
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10.7	9.757398	9.330769	10.04938	9.920094	9.496549	9.81707
10.9	14.9922	14.13895	17.35093	15.1549	16.7981	17.1186
11	11.37515	12.22841	10.35039	11.51983	9.777132	10.0977
19.3	16.60995	17.03658	11.39347	16.75464	10.82021	11.1408
25.6	21.84476	21.84476	14.52271	21.98945	13.94945	14.27
28.5	27.07957	26.65294	19.7381	27.22425	19.16484	19.4854
29	32.31437	31.46111	27.03965	32.45906	26.46639	26.7869
38.3	46.01948	46.87274	49.10526	46.12815	48.45028	48.771
53.1	51.25429	51.68092	50.14834	51.36295	49.49336	49.8141
63.9	56.4891	56.4891	53.27758	56.59776	52.6226	52.9433
73.7	61.7239	61.29727	58.49297	61.83257	57.83799	58.1587
75.2	66.95871	66.10545	65.79452	67.06737	65.13954	65.4602
1.1	-13.3353	-12.482	-3.37084	-12.6642	-3.31411	-3.41877
2.9	-8.1005	-7.67387	-2.32776	-7.42944	-2.27104	-2.37569

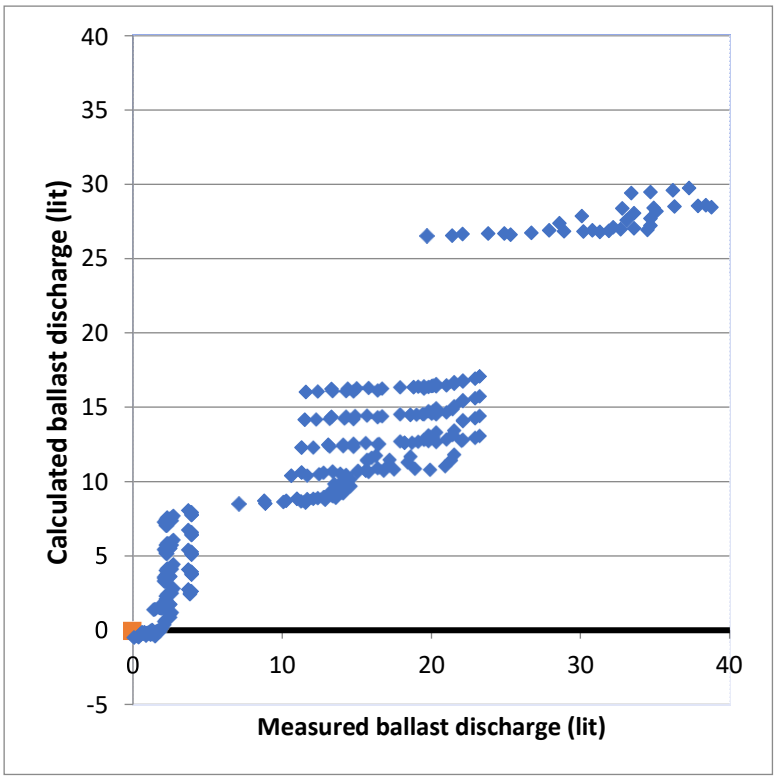
3.1	-2.86569	-2.86569	0.80147	-2.19463	0.858199	0.75354
3.3	2.369114	1.942485	6.016862	3.040176	6.07359	5.96893
3.3	7.60392	6.750662	13.31841	8.274982	13.37514	13.2705
6.1	3.986865	4.840123	6.317874	4.639916	6.354173	6.24955
11.8	9.22167	9.6483	7.360953	9.874722	7.397251	7.29263
13.3	14.45648	14.45648	10.49019	15.10953	10.52649	10.4219
13.6	19.69128	19.26465	15.70558	20.34433	15.74188	15.6373
13.6	24.92609	24.07283	23.00713	25.57914	23.04343	22.9388
19.5	38.6312	39.48446	45.07274	39.24823	45.02732	44.9228
25.9	43.86601	44.29264	46.11582	44.48304	46.0704	45.9659
31.3	49.10081	49.10081	49.24506	49.71784	49.19964	49.0952
33	54.33562	53.90899	54.46045	54.95265	54.41503	54.3105
33.2	59.57042	58.71717	61.762	60.18745	61.71658	61.6121
4.2	-1.77273	-0.91947	3.052075	-1.60617	2.485389	2.39502
9.9	3.462075	3.888704	4.095153	3.628637	3.528467	3.4381
11.8	8.696881	8.696881	7.224388	8.863443	6.657702	6.56733
12.4	13.93169	13.50506	12.43978	14.09825	11.87309	11.7827
12.7	19.16649	18.31323	19.74133	19.33305	19.17464	19.0843
11.1	15.54944	16.4027	12.74079	15.69799	12.15368	12.0633
19.7	20.78424	21.21087	13.78387	20.93279	13.19676	13.1064
25.7	26.01905	26.01905	16.91311	26.1676	16.32599	16.2357
29.5	31.25385	30.82723	22.1285	31.40241	21.54138	21.451
29.8	36.48866	35.6354	29.43005	36.63721	28.84293	28.7526
41.4	50.19377	51.04703	51.49566	50.3063	50.82683	50.7366
61.2	55.42858	55.85521	52.53874	55.54111	51.86991	51.7797
78.6	60.66338	60.66338	55.66797	60.77591	54.99914	54.9089
89.9	65.89819	65.47156	60.88337	66.01072	60.21453	60.1243
90.3	71.133	70.27974	68.18491	71.24553	67.51608	67.4259
1.9	-10.5524	-9.69919	0.878753	-9.8788	0.910854	0.04078
2.5	-5.31764	-4.89101	1.921832	-4.644	1.953933	1.08386
2.7	-0.08283	-0.08283	5.051067	0.590807	5.083168	4.21309
2.8	5.151973	4.725344	10.26646	5.825613	10.29856	9.42849
2.8	10.38678	9.533521	17.56801	11.06042	17.60011	16.73
6.1	6.769723	7.622982	10.56747	7.425353	10.57914	9.7091
11	12.00453	12.43116	11.61055	12.66016	11.62222	10.7522
11.3	17.23934	17.23934	14.73978	17.89496	14.75146	13.8814
11.6	22.47414	22.04751	19.95518	23.12977	19.96685	19.0968
11.9	27.70895	26.85569	27.25672	28.36458	27.2684	26.3984
20.6	41.41406	42.26732	49.32234	42.03367	49.25229	48.3824
28.5	46.64887	47.07549	50.36542	47.26847	50.29537	49.4255
33.4	51.88367	51.88367	53.49465	52.50328	53.42461	52.5547
34.1	57.11848	56.69185	58.71004	57.73808	58.64	57.7701
34.8	62.35328	61.50002	66.01159	62.97289	65.94155	65.0716
6.1	1.010128	1.863386	7.301671	1.179267	6.710358	5.85457
14	6.244934	6.671563	8.344749	6.414073	7.753436	6.89765
14.4	11.47974	11.47974	11.47398	11.64888	10.88267	10.0269
14.8	16.71455	16.28792	16.68938	16.88368	16.09806	15.2423

14.9	21.94935	21.09609	23.99092	22.11849	23.39961	22.5438
14.4	18.3323	19.18555	16.99039	18.48342	16.37865	15.5229
26.1	23.5671	23.99373	18.03347	23.71823	17.42172	16.566
33.9	28.80191	28.80191	21.1627	28.95304	20.55096	19.6952
34.3	34.03671	33.61008	26.37809	34.18784	25.76635	24.9106
34.5	39.27152	38.41826	33.67964	39.42265	33.0679	32.2121
57.9	52.97663	53.82989	55.74526	53.09174	55.0518	54.1962
81.3	58.21144	58.63807	56.78834	58.32655	56.09487	55.2393
92.4	63.44624	63.44624	59.91757	63.56135	59.22411	58.3685
92.6	68.68105	68.25442	65.13296	68.79616	64.4395	63.5839
92.9	73.91586	73.0626	72.43451	74.03096	71.74105	70.8854

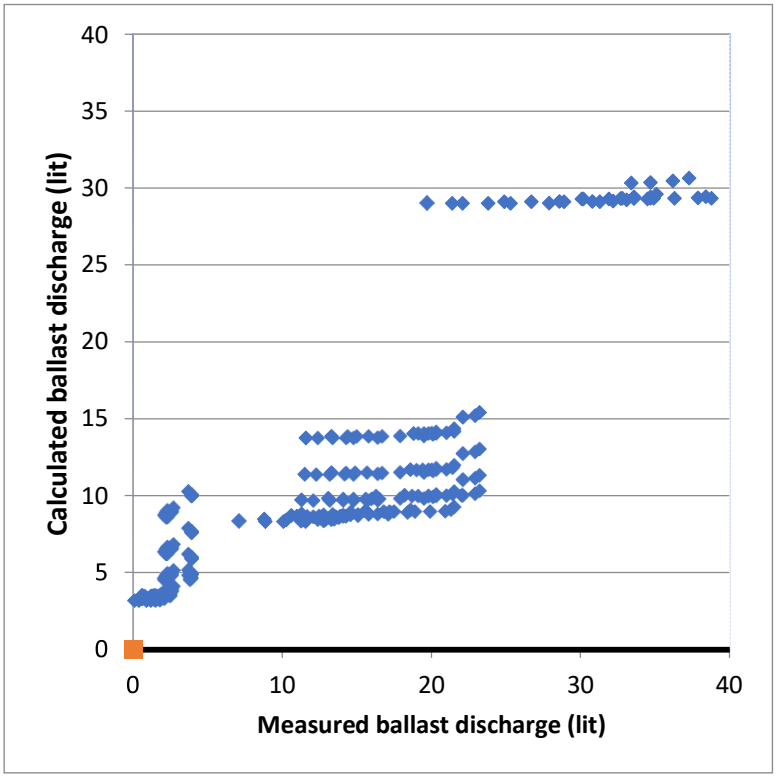
Appendix VIII



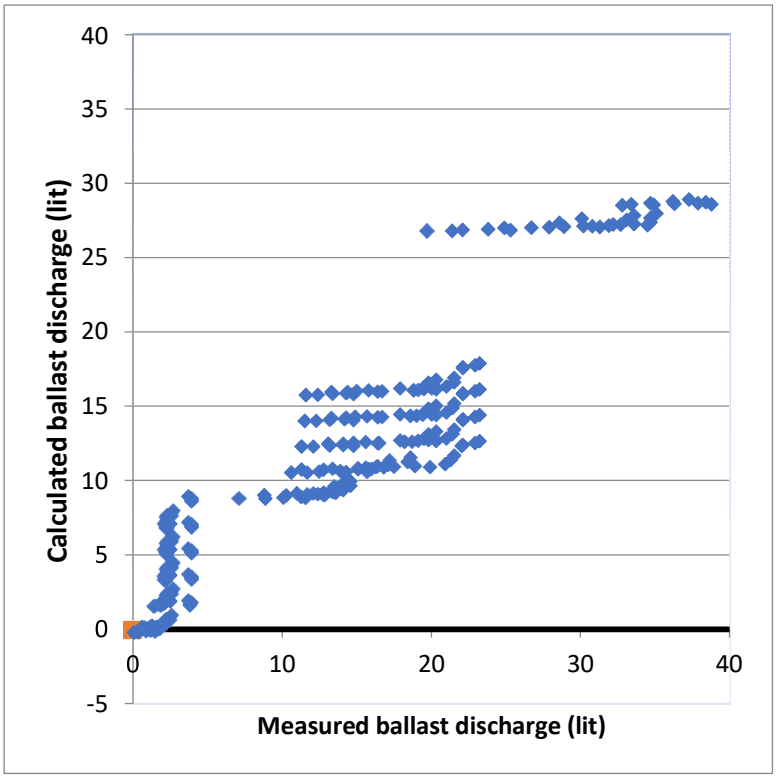
Measured ballast discharge vs calculated ballast discharge light rain test results for Model1



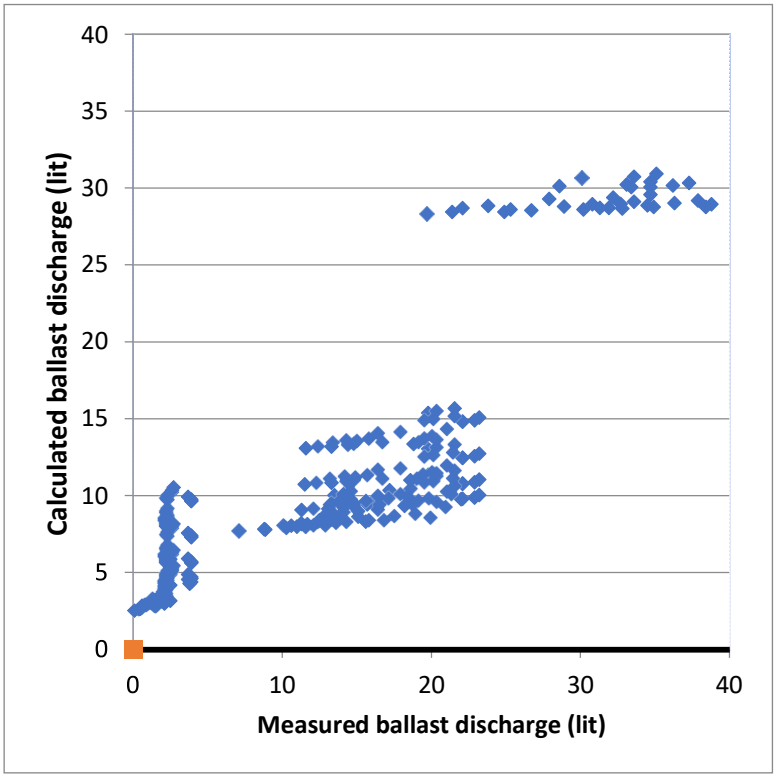
Measured ballast discharge vs calculated ballast discharge light rain test results for Model2



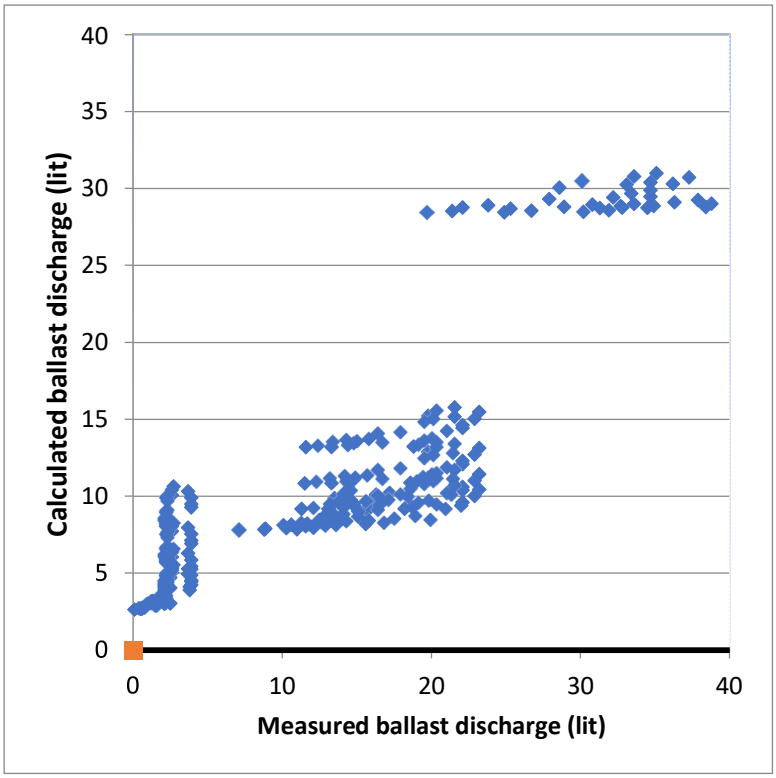
Measured ballast discharge vs calculated ballast discharge light rain test results for Model3



Measured ballast discharge vs calculated ballast discharge light rain test results for Model4



Measured ballast discharge vs calculated ballast discharge light rain test results for Model5



Measured ballast discharge vs calculated ballast discharge light rain test results for Model6

Light rain (33 mm/hr)

	Model number					
	1	2	3	4	5	6
y	Negatives predictions					
	5	14	0	5	0	0
Measured ballast discharge (lit)						
3.8	1.621625	2.445559	4.56802	1.621625	4.284152	3.911207
3.9	3.358291	3.770258	4.903187	3.358291	4.619318	4.246374
3.9	5.094958	5.094958	5.908688	5.094958	5.624819	5.251875
3.9	6.831625	6.419657	7.584523	6.831625	7.300654	6.92771
3.9	8.568291	7.744357	9.930691	8.568291	9.646823	9.273879
15.7	10.61453	11.43847	9.723071	10.61453	9.439203	9.066258
22	12.3512	12.76317	10.05824	12.3512	9.774369	9.401425
22.1	14.08787	14.08787	11.06374	14.08787	10.77987	10.40693
22.1	15.82453	15.41257	12.73957	15.82453	12.4557	12.08276
22.1	17.5612	16.73727	15.08574	17.5612	14.80187	14.42893
33.4	28.60035	29.42428	30.34328	28.60035	30.05941	29.68646
47.8	30.33702	30.74898	30.67844	30.33702	30.39457	30.02163
52.1	32.07368	32.07368	31.68394	32.07368	31.40007	31.02713
52.1	33.81035	33.39838	33.35978	33.81035	33.07591	32.70297
52.1	35.54702	34.72308	35.70595	35.54702	35.42208	35.04913
3.8	1.687898	2.511832	4.579892	1.687898	4.295003	4.11648
3.9	3.424565	3.836532	4.915059	3.424565	4.63017	4.451647
3.9	5.161231	5.161231	5.920559	5.161231	5.635671	5.457148
3.9	6.897898	6.485931	7.596394	6.897898	7.311506	7.132983
3.9	8.634565	7.810631	9.942563	8.634565	9.657674	9.479151
15.7	10.68081	11.50474	9.734943	10.68081	9.450054	9.271531
22.1	12.41747	12.82944	10.07011	12.41747	9.785221	9.606698
22.1	14.15414	14.15414	11.07561	14.15414	10.79072	10.6122
22.1	15.89081	15.47884	12.75145	15.89081	12.46656	12.28803
22.1	17.62747	16.80354	15.09761	17.62747	14.81273	14.6342
34.7	28.66662	29.49056	30.35515	28.66662	30.07026	29.89174
48.9	30.40329	30.81526	30.69031	30.40329	30.40543	30.2269
52.4	32.13996	32.13996	31.69581	32.13996	31.41093	31.2324
52.4	33.87662	33.46466	33.37165	33.87662	33.08676	32.90824
52.4	35.61329	34.78936	35.71782	35.61329	35.43293	35.25441
3.9	1.820445	2.644379	4.674864	1.820445	4.381815	4.532281

3.9	3.557112	3.969079	5.010031	3.557112	4.716982	4.867448
3.9	5.293778	5.293778	6.015532	5.293778	5.722483	5.872948
3.9	7.030445	6.618478	7.691367	7.030445	7.398318	7.548783
3.9	8.767112	7.943178	10.03754	8.767112	9.744486	9.894952
16	10.81335	11.63729	9.829915	10.81335	9.536866	9.687332
22.9	12.55002	12.96199	10.16508	12.55002	9.872033	10.0225
22.9	14.28669	14.28669	11.17058	14.28669	10.87753	11.028
22.9	16.02335	15.61139	12.84642	16.02335	12.55337	12.70383
22.9	17.76002	16.93609	15.19259	17.76002	14.89954	15.05
36.2	28.79917	29.6231	30.45012	28.79917	30.15707	30.30754
49.7	30.53584	30.9478	30.78529	30.53584	30.49224	30.6427
55.2	32.2725	32.2725	31.79079	32.2725	31.49774	31.6482
55.2	34.00917	33.5972	33.46662	34.00917	33.17357	33.32404
55.2	35.74584	34.9219	35.81279	35.74584	35.51974	35.67021
3.7	1.952992	2.776926	4.86481	1.952992	4.55544	4.955087
3.7	3.689659	4.101626	5.199977	3.689659	4.890607	5.290254
3.7	5.426325	5.426325	6.205477	5.426325	5.896108	6.295755
3.7	7.162992	6.751025	7.881312	7.162992	7.571943	7.97159
3.7	8.899659	8.075725	10.22748	8.899659	9.918111	10.31776
16.3	10.9459	11.76983	10.01986	10.9459	9.710491	10.11014
23.2	12.68257	13.09453	10.35503	12.68257	10.04566	10.44531
23.2	14.41923	14.41923	11.36053	14.41923	11.05116	11.45081
23.2	16.1559	15.74393	13.03636	16.1559	12.72699	13.12664
23.2	17.89257	17.06863	15.38253	17.89257	15.07316	15.47281
37.3	28.93172	29.75565	30.64006	28.93172	30.3307	30.73034
51.6	30.66838	31.08035	30.97523	30.66838	30.66586	31.06551
56.1	32.40505	32.40505	31.98073	32.40505	31.67136	32.07101
56.1	34.14172	33.72975	33.65657	34.14172	33.3472	33.74684
56.1	35.87838	35.05445	36.00274	35.87838	35.69337	36.09301
2.5	0.658871	0.889967	3.525333	0.658871	4.860832	4.719964
2.6	2.395538	2.511086	3.8605	2.395538	5.195999	5.055131
2.6	4.132204	4.132204	4.866001	4.132204	6.2015	6.060631
2.6	5.868871	5.753323	6.541836	5.868871	7.877334	7.736466
2.6	7.605538	7.374441	8.888004	7.605538	10.2235	10.08263
13.5	9.651779	9.882875	8.680384	9.651779	10.01588	9.875015
17.2	11.38845	11.50399	9.015551	11.38845	10.35105	10.21018
19.8	13.12511	13.12511	10.02105	13.12511	11.35655	11.21568
19.8	14.86178	14.74623	11.69689	14.86178	13.03239	12.89152
19.8	16.59845	16.36735	14.04306	16.59845	15.37855	15.23769
30.1	27.6376	27.86869	29.30059	27.6376	30.63609	30.49522
45.3	29.37426	29.48981	29.63576	29.37426	30.97125	30.83039
48.5	31.11093	31.11093	30.64126	31.11093	31.97675	31.83589
48.5	32.8476	32.73205	32.31709	32.8476	33.65259	33.51172
48.5	34.58426	34.35317	34.66326	34.58426	35.99876	35.85789
2.5	0.857691	1.088788	3.632178	0.857691	4.958496	5.017195
2.6	2.594358	2.709906	3.967345	2.594358	5.293663	5.352362
2.6	4.331025	4.331025	4.972845	4.331025	6.299163	6.357863

2.6	6.067691	5.952143	6.64868	6.067691	7.974998	8.033698
2.6	7.804358	7.573262	8.994849	7.804358	10.32117	10.37987
14.1	9.8506	10.0817	8.787229	9.8506	10.11355	10.17225
18.6	11.58727	11.70281	9.122396	11.58727	10.44871	10.50741
20.3	13.32393	13.32393	10.1279	13.32393	11.45421	11.51291
20.3	15.0606	14.94505	11.80373	15.0606	13.13005	13.18875
20.3	16.79727	16.56617	14.1499	16.79727	15.47622	15.53492
33.6	27.83642	28.06751	29.40743	27.83642	30.73375	30.79245
46.9	29.57308	29.68863	29.7426	29.57308	31.06892	31.12762
53.1	31.30975	31.30975	30.7481	31.30975	32.07442	32.13312
53.2	33.04642	32.93087	32.42394	33.04642	33.75025	33.80895
53.2	34.78308	34.55199	34.7701	34.78308	36.09642	36.15512
2.6	0.990238	1.221335	3.822123	0.990238	5.13212	5.224107
2.7	2.726905	2.842453	4.15729	2.726905	5.467287	5.559274
2.7	4.463572	4.463572	5.162791	4.463572	6.472788	6.564775
2.7	6.200238	6.08469	6.838625	6.200238	8.148623	8.24061
2.7	7.936905	7.705809	9.184794	7.936905	10.49479	10.58678
14.6	9.983147	10.21424	8.977174	9.983147	10.28717	10.37916
21.5	11.71981	11.83536	9.312341	11.71981	10.62234	10.71433
21.5	13.45648	13.45648	10.31784	13.45648	11.62784	11.71983
21.5	15.19315	15.0776	11.99368	15.19315	13.30367	13.39566
21.5	16.92981	16.69872	14.33985	16.92981	15.64984	15.74183
35.1	27.96896	28.20006	29.59738	27.96896	30.90738	30.99936
50.8	29.70563	29.82118	29.93255	29.70563	31.24254	31.33453
54.9	31.4423	31.4423	30.93805	31.4423	32.24804	32.34003
54.9	33.17896	33.06341	32.61388	33.17896	33.92388	34.01586
54.9	34.91563	34.68453	34.96005	34.91563	36.27005	36.36203
2.1	0.362639	0.411324	3.355043	0.362639	4.347931	4.290062
2.2	2.099306	2.123648	3.69021	2.099306	4.683098	4.625229
2.3	3.835972	3.835972	4.695711	3.835972	5.688598	5.63073
2.3	5.572639	5.548297	6.371546	5.572639	7.364433	7.306564
2.3	7.309306	7.260621	8.717714	7.309306	9.710602	9.652733
13.3	9.355547	9.404232	8.510094	9.355547	9.502982	9.445113
17.1	11.09221	11.11656	8.845261	11.09221	9.838149	9.78028
19.5	12.82888	12.82888	9.850762	12.82888	10.84365	10.78578
19.5	14.56555	14.5412	11.5266	14.56555	12.51948	12.46162
19.5	16.30221	16.25353	13.87277	16.30221	14.86565	14.80778
28.6	27.34136	27.39005	29.1303	27.34136	30.12319	30.06532
43.6	29.07803	29.10237	29.46547	29.07803	30.45835	30.40048
51.3	30.8147	30.8147	30.47097	30.8147	31.46385	31.40598
51.7	32.55136	32.52702	32.1468	32.55136	33.13969	33.08182
51.7	34.28803	34.23935	34.49297	34.28803	35.48586	35.42799
2.1	0.56146	0.610144	3.461887	0.56146	4.445595	4.48765
2.2	2.298126	2.322469	3.797054	2.298126	4.780762	4.822817
2.2	4.034793	4.034793	4.802555	4.034793	5.786262	5.828318
2.2	5.77146	5.747117	6.47839	5.77146	7.462097	7.504152
2.2	7.508126	7.459441	8.824559	7.508126	9.808266	9.850321

13.8	9.554368	9.603053	8.616938	9.554368	9.600646	9.642701
18.4	11.29103	11.31538	8.952105	11.29103	9.935813	9.977868
20.1	13.0277	13.0277	9.957606	13.0277	10.94131	10.98337
20.1	14.76437	14.74003	11.63344	14.76437	12.61715	12.6592
20.1	16.50103	16.45235	13.97961	16.50103	14.96332	15.00537
33.1	27.54018	27.58887	29.23714	27.54018	30.22085	30.26291
47.9	29.27685	29.30119	29.57231	29.27685	30.55602	30.59807
53.4	31.01352	31.01352	30.57781	31.01352	31.56152	31.60357
53.8	32.75018	32.72584	32.25365	32.75018	33.23735	33.27941
53.8	34.48685	34.43817	34.59981	34.48685	35.58352	35.62558
2.2	0.694007	0.742691	3.651833	0.694007	4.619219	4.628133
2.3	2.430673	2.455016	3.987	2.430673	4.954386	4.9633
2.3	4.16734	4.16734	4.992501	4.16734	5.959887	5.968801
2.3	5.904007	5.879664	6.668335	5.904007	7.635722	7.644636
2.3	7.640673	7.591988	9.014504	7.640673	9.98189	9.990804
14.6	9.686915	9.7356	8.806884	9.686915	9.77427	9.783184
21.3	11.42358	11.44792	9.142051	11.42358	10.10944	10.11835
21.4	13.16025	13.16025	10.14755	13.16025	11.11494	11.12385
21.4	14.89691	14.87257	11.82339	14.89691	12.79077	12.79969
21.5	16.63358	16.5849	14.16955	16.63358	15.13694	15.14586
34.7	27.67273	27.72142	29.42709	27.67273	30.39447	30.40339
51.9	29.4094	29.43374	29.76225	29.4094	30.72964	30.73856
55.3	31.14606	31.14606	30.76776	31.14606	31.73514	31.74406
55.6	32.88273	32.85839	32.44359	32.88273	33.41098	33.41989
55.6	34.6194	34.57071	34.78976	34.6194	35.75715	35.76606
1.8	0.066407	-0.06732	3.255594	0.066407	3.510163	3.540749
2.1	1.803074	1.73621	3.590761	1.803074	3.84533	3.875916
2.2	3.53974	3.53974	4.596262	3.53974	4.850831	4.881416
2.2	5.276407	5.34327	6.272096	5.276407	6.526666	6.557251
2.2	7.013074	7.146801	8.618265	7.013074	8.872834	8.90342
12.8	9.059315	8.925589	8.410645	9.059315	8.665214	8.6958
15.1	10.79598	10.72912	8.745812	10.79598	9.000381	9.030967
16.4	12.53265	12.53265	9.751313	12.53265	10.00588	10.03647
16.4	14.26932	14.33618	11.42715	14.26932	11.68172	11.7123
16.4	16.00598	16.13971	13.77332	16.00598	14.02789	14.05847
27.9	27.04513	26.9114	29.03085	27.04513	29.28542	29.316
40.7	28.7818	28.71493	29.36602	28.7818	29.62059	29.65117
50.6	30.51846	30.51846	30.37152	30.51846	30.62609	30.65667
50.6	32.25513	32.32199	32.04735	32.25513	32.30192	32.33251
50.8	33.9918	34.12553	34.39352	33.9918	34.64809	34.67867
1.9	0.265228	0.131501	3.362438	0.265228	3.607827	3.638693
2.1	2.001894	1.935031	3.697605	2.001894	3.942994	3.97386
2.2	3.738561	3.738561	4.703106	3.738561	4.948495	4.979361
2.2	5.475228	5.542091	6.37894	5.475228	6.62433	6.655195
2.2	7.211894	7.345621	8.725109	7.211894	8.970498	9.001364
13.5	9.258136	9.124409	8.517489	9.258136	8.762878	8.793744
16.4	10.9948	10.92794	8.852656	10.9948	9.098045	9.128911

17.9	12.73147	12.73147	9.858157	12.73147	10.10355	10.13441
17.9	14.46814	14.535	11.53399	14.46814	11.77938	11.81025
17.9	16.2048	16.33853	13.88016	16.2048	14.12555	14.15642
32.2	27.24395	27.11023	29.13769	27.24395	29.38308	29.41395
44.8	28.98062	28.91376	29.47286	28.98062	29.71825	29.74912
52.1	30.71729	30.71729	30.47836	30.71729	30.72375	30.75462
52.2	32.45395	32.52082	32.1542	32.45395	32.39958	32.43045
52.2	34.19062	34.32435	34.50036	34.19062	34.74575	34.77662
2	0.397775	0.264048	3.552383	0.397775	3.781452	3.712747
2.2	2.134441	2.067578	3.88755	2.134441	4.116619	4.047914
2.3	3.871108	3.871108	4.893051	3.871108	5.122119	5.053415
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2.3	7.344441	7.478168	8.915054	7.344441	9.144123	9.075418
14.1	9.390683	9.256956	8.707434	9.390683	8.936503	8.867798
20.9	11.12735	11.06049	9.042601	11.12735	9.27167	9.202965
21	12.86402	12.86402	10.0481	12.86402	10.27717	10.20847
21	14.60068	14.66755	11.72394	14.60068	11.95301	11.8843
21	16.33735	16.47108	14.07011	16.33735	14.29917	14.23047
34.7	27.3765	27.24277	29.32764	27.3765	29.55671	29.488
50.3	29.11317	29.0463	29.66281	29.11317	29.89187	29.82317
54.4	30.84983	30.84983	30.66831	30.84983	30.89737	30.82867
54.5	32.5865	32.65336	32.34414	32.5865	32.57321	32.5045
54.5	34.32317	34.45689	34.69031	34.32317	34.91938	34.85067
1.5	-0.11589	-0.36187	3.229605	-0.11589	2.833142	2.920872
1.9	1.620777	1.497787	3.564772	1.620777	3.168309	3.256039
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2.2	5.094111	5.217101	6.246107	5.094111	5.849644	5.937374
2.2	6.830777	7.076757	8.592276	6.830777	8.195813	8.283543
11.6	8.877019	8.631039	8.384656	8.877019	7.988193	8.075923
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14.8	12.35035	12.35035	9.725324	12.35035	9.328861	9.416591
14.8	14.08702	14.21001	11.40116	14.08702	11.0047	11.09243
14.8	15.82369	16.06967	13.74733	15.82369	13.35086	13.43859
25.3	26.86284	26.61686	29.00486	26.86284	28.6084	28.69613
38.8	28.5995	28.47651	29.34003	28.5995	28.94356	29.03129
51.2	30.33617	30.33617	30.34553	30.33617	29.94906	30.03679
51.2	32.07284	32.19583	32.02136	32.07284	31.6249	31.71263
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2.2	3.556264	3.556264	4.677117	3.556264	4.271473	4.298165
2.2	5.292931	5.415921	6.352952	5.292931	5.947308	5.974
2.2	7.029598	7.275578	8.69912	7.029598	8.293477	8.320168
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15.8	10.81251	10.68952	8.826667	10.81251	8.421024	8.447715
16.5	12.54917	12.54917	9.832168	12.54917	9.426525	9.453216
16.7	14.28584	14.40883	11.508	14.28584	11.10236	11.12905

16.7	16.02251	16.26849	13.85417	16.02251	13.44853	13.47522
31.3	27.06166	26.81568	29.1117	27.06166	28.70606	28.73275
44.1	28.79832	28.67533	29.44687	28.79832	29.04123	29.06792
53.2	30.53499	30.53499	30.45237	30.53499	30.04673	30.07342
53.4	32.27166	32.39465	32.12821	32.27166	31.72256	31.74925
53.4	34.00832	34.2543	34.47438	34.00832	34.06873	34.09542
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2.2	3.688812	3.688812	4.867062	3.688812	4.445098	4.33134
2.2	5.425478	5.548468	6.542897	5.425478	6.120933	6.007174
2.2	7.162145	7.408125	8.889066	7.162145	8.467101	8.353343
13.6	9.208386	8.962406	8.681446	9.208386	8.259481	8.145723
19.9	10.94505	10.82206	9.016612	10.94505	8.594648	8.48089
20.3	12.68172	12.68172	10.02211	12.68172	9.600149	9.486391
20.3	14.41839	14.54138	11.69795	14.41839	11.27598	11.16223
20.3	16.15505	16.40103	14.04412	16.15505	13.62215	13.50839
34.5	27.1942	26.94822	29.30165	27.1942	28.87969	28.76593
50.7	28.93087	28.80788	29.63682	28.93087	29.21485	29.10109
54.5	30.66754	30.66754	30.64232	30.66754	30.22035	30.10659
54.5	32.4042	32.52719	32.31815	32.4042	31.89619	31.78243
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1.2	-0.05607	-0.26522	3.235175	-0.05607	3.068851	3.137602
1.8	1.680593	1.57602	3.570342	1.680593	3.404018	3.472769
2.2	3.41726	3.41726	4.575843	3.41726	4.409518	4.47827
2.2	5.153927	5.2585	6.251678	5.153927	6.085353	6.154105
2.2	6.890593	7.09974	8.597846	6.890593	8.431522	8.500273
11.3	8.936835	8.727688	8.390226	8.936835	8.223902	8.292653
13.9	10.6735	10.56893	8.725393	10.6735	8.559069	8.62782
14.1	12.41017	12.41017	9.730894	12.41017	9.564569	9.633321
14.2	14.14683	14.25141	11.40673	14.14683	11.2404	11.30916
14.3	15.8835	16.09265	13.7529	15.8835	13.58657	13.65532
23.8	26.92265	26.7135	29.01043	26.92265	28.84411	28.91286
37.9	28.65932	28.55474	29.3456	28.65932	29.17927	29.24802
48.9	30.39598	30.39598	30.3511	30.39598	30.18477	30.25353
50	32.13265	32.23722	32.02693	32.13265	31.86061	31.92936
50	33.86932	34.07846	34.3731	33.86932	34.20678	34.27553
1.2	0.142747	-0.0664	3.34202	0.142747	3.166514	3.194348
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2.1	3.616081	3.616081	4.682687	3.616081	4.507182	4.535016
2.1	5.352747	5.457321	6.358522	5.352747	6.183017	6.21085
2.1	7.089414	7.298561	8.704691	7.089414	8.529186	8.557019
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15.1	10.87232	10.76775	8.832238	10.87232	8.656732	8.684566
15.6	12.60899	12.60899	9.837738	12.60899	9.662233	9.690067
15.7	14.34566	14.45023	11.51357	14.34566	11.33807	11.3659
15.8	16.08232	16.29147	13.85974	16.08232	13.68424	13.71207
30.8	27.12147	26.91232	29.11727	27.12147	28.94177	28.9696

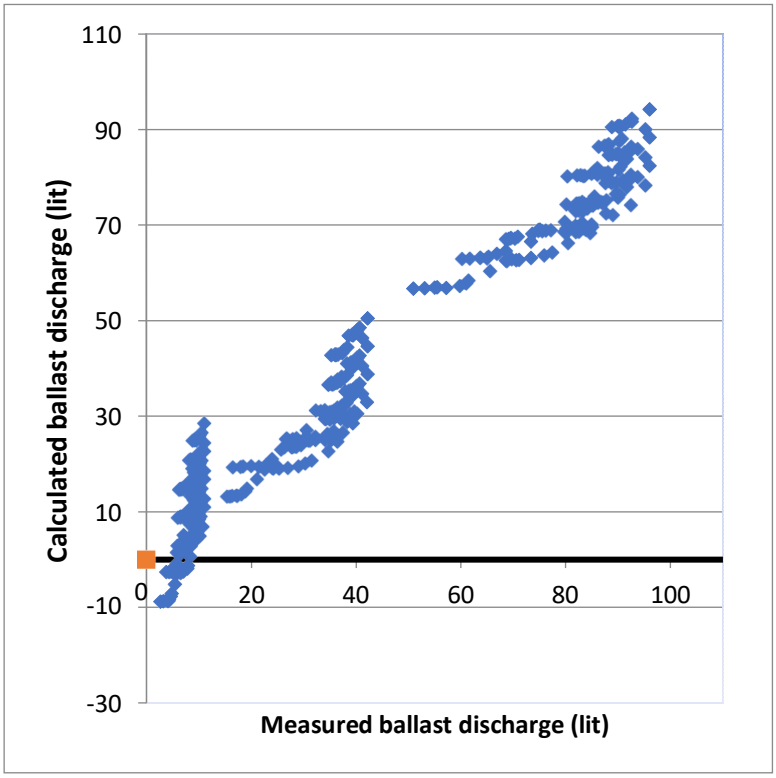
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52	32.33147	32.43605	32.13378	32.33147	31.95827	31.98611
52	34.06814	34.27729	34.47995	34.06814	34.30444	34.33227
1.3	0.275294	0.066147	3.531965	0.275294	3.340139	3.240936
2.2	2.011961	1.907387	3.867132	2.011961	3.675306	3.576103
2.3	3.748628	3.748628	4.872633	3.748628	4.680807	4.581604
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2.3	7.221961	7.431108	8.894636	7.221961	8.70281	8.603607
13.4	9.268202	9.059055	8.687016	9.268202	8.49519	8.395987
18.9	11.00487	10.9003	9.022183	11.00487	8.830357	8.731154
19.8	12.74154	12.74154	10.02768	12.74154	9.835858	9.736655
20	14.4782	14.58278	11.70352	14.4782	11.51169	11.41249
20	16.21487	16.42402	14.04969	16.21487	13.85786	13.75866
33.6	27.25402	27.04487	29.30722	27.25402	29.11539	29.01619
49.5	28.99069	28.88611	29.64239	28.99069	29.45056	29.35136
53.1	30.72735	30.72735	30.64789	30.72735	30.45606	30.35686
53.3	32.46402	32.56859	32.32372	32.46402	32.1319	32.03269
53.3	34.20069	34.40983	34.66989	34.20069	34.47807	34.37886
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1.5	1.579761	1.444142	3.562621	1.579761	2.999024	3.099897
2.1	3.316427	3.316427	4.568122	3.316427	4.004525	4.105397
2.2	5.053094	5.188712	6.243957	5.053094	5.68036	5.781232
2.2	6.789761	7.060998	8.590126	6.789761	8.026529	8.127401
8.9	8.836002	8.564765	8.382505	8.836002	7.818909	7.919781
11.7	10.57267	10.43705	8.717672	10.57267	8.154075	8.254948
12.1	12.30934	12.30934	9.723173	12.30934	9.159576	9.260448
12.3	14.046	14.18162	11.39901	14.046	10.83541	10.93628
12.4	15.78267	16.05391	13.74518	15.78267	13.18158	13.28245
21.4	26.82182	26.55058	29.00271	26.82182	28.43911	28.53998
34.9	28.55848	28.42287	29.33788	28.55848	28.77428	28.87515
44.7	30.29515	30.29515	30.34338	30.29515	29.77978	29.88065
46.3	32.03182	32.16744	32.01921	32.03182	31.45562	31.55649
46.6	33.76848	34.03972	34.36538	33.76848	33.80178	33.90266
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2.2	5.251914	5.387533	6.350801	5.251914	5.778024	5.804061
2.2	6.988581	7.259818	8.69697	6.988581	8.124192	8.150229
10.3	9.034823	8.763586	8.48935	9.034823	7.916572	7.942609
12.8	10.77149	10.63587	8.824517	10.77149	8.251739	8.277776
14.1	12.50816	12.50816	9.830018	12.50816	9.25724	9.283277
14.3	14.24482	14.38044	11.50585	14.24482	10.93307	10.95911
14.4	15.98149	16.25273	13.85202	15.98149	13.27924	13.30528
26.7	27.02064	26.7494	29.10955	27.02064	28.53678	28.56281
40.8	28.75731	28.62169	29.44472	28.75731	28.87194	28.89798
47.3	30.49397	30.49397	30.45022	30.49397	29.87744	29.90348

48.2	32.23064	32.36626	32.12606	32.23064	31.55328	31.57932
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19	14.37737	14.51299	11.6958	14.37737	11.1067	10.98309
19.1	16.11404	16.38527	14.04197	16.11404	13.45287	13.32926
31.9	27.15319	26.88195	29.2995	27.15319	28.7104	28.58679
46.5	28.88985	28.75423	29.63467	28.88985	29.04557	28.92196
50.3	30.62652	30.62652	30.64017	30.62652	30.05107	29.92746
50.6	32.36319	32.4988	32.316	32.36319	31.7269	31.60329
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2.3	6.852995	7.085294	8.594008	6.852995	8.284908	8.365563
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13.4	15.8459	16.0782	13.74906	15.8459	13.43996	13.52061
22.1	26.88505	26.65275	29.00659	26.88505	28.69749	28.77815
36.3	28.62172	28.50557	29.34176	28.62172	29.03266	29.11331
46.5	30.35839	30.35839	30.34726	30.35839	30.03816	30.11881
47.2	32.09505	32.2112	32.02309	32.09505	31.71399	31.79465
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2.1	3.578482	3.578482	4.678849	3.578482	4.360569	4.387658
2.1	5.315149	5.431298	6.354683	5.315149	6.036403	6.063493
2.1	7.051815	7.284114	8.700852	7.051815	8.382572	8.409662
11.7	9.098057	8.865758	8.493232	9.098057	8.174952	8.202042
13.4	10.83472	10.71857	8.828399	10.83472	8.510119	8.537209
14.8	12.57139	12.57139	9.8339	12.57139	9.51562	9.542709
14.9	14.30806	14.42421	11.50973	14.30806	11.19145	11.21854
15	16.04472	16.27702	13.8559	16.04472	13.53762	13.56471
28.9	27.08387	26.85157	29.11344	27.08387	28.79516	28.82225
41.6	28.82054	28.70439	29.4486	28.82054	29.13032	29.15741
48.7	30.55721	30.55721	30.4541	30.55721	30.13582	30.16291
51	32.29387	32.41002	32.12994	32.29387	31.81166	31.83875
51.2	34.03054	34.26284	34.47611	34.03054	34.15783	34.18492

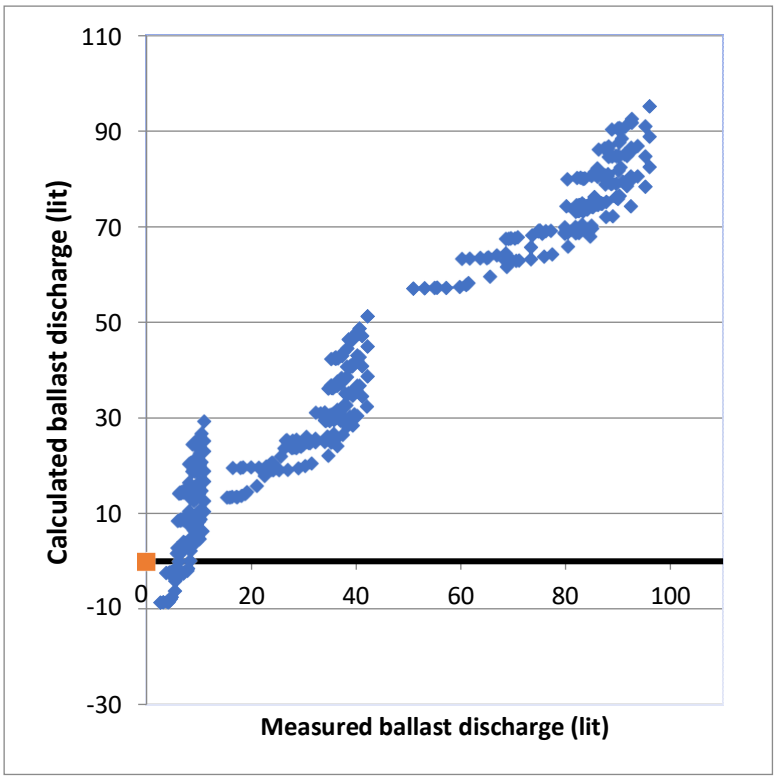
1.2	0.237696	0.005396	3.528126	0.237696	3.193526	3.085147
2.2	1.974362	1.858213	3.863293	1.974362	3.528693	3.420314
2.3	3.711029	3.711029	4.868794	3.711029	4.534193	4.425815
2.3	5.447696	5.563845	6.544629	5.447696	6.210028	6.10165
2.3	7.184362	7.416661	8.890797	7.184362	8.556197	8.447818
12.8	9.230604	8.998305	8.683177	9.230604	8.348577	8.240198
17.5	10.96727	10.85112	9.018344	10.96727	8.683744	8.575365
19.1	12.70394	12.70394	10.02385	12.70394	9.689244	9.580866
19.4	14.4406	14.55675	11.69968	14.4406	11.36508	11.2567
19.5	16.17727	16.40957	14.04585	16.17727	13.71125	13.60287
32.7	27.21642	26.98412	29.30338	27.21642	28.96878	28.8604
47.8	28.95309	28.83694	29.63855	28.95309	29.30395	29.19557
51.4	30.68975	30.68975	30.64405	30.68975	30.30945	30.20107
51.6	32.42642	32.54257	32.31988	32.42642	31.98528	31.8769
51.8	34.16309	34.39539	34.66605	34.16309	34.33145	34.22307
0.1	-0.18083	-0.4668	3.226827	-0.18083	2.562232	2.670819
1.4	1.555834	1.412849	3.561994	1.555834	2.897399	3.005986
2.2	3.292501	3.292501	4.567495	3.292501	3.9029	4.011487
2.3	5.029167	5.172153	6.24333	5.029167	5.578735	5.687321
2.3	6.765834	7.051804	8.589498	6.765834	7.924903	8.03349
7.1	8.812076	8.526105	8.381878	8.812076	7.717283	7.82587
10.6	10.54874	10.40576	8.717045	10.54874	8.05245	8.161037
11.3	12.28541	12.28541	9.722546	12.28541	9.057951	9.166538
11.5	14.02208	14.16506	11.39838	14.02208	10.73379	10.84237
11.6	15.75874	16.04471	13.74455	15.75874	13.07995	13.18854
19.7	26.79789	26.51192	29.00208	26.79789	28.33749	28.44607
32.8	28.53456	28.39157	29.33725	28.53456	28.67265	28.78124
41.4	30.27123	30.27123	30.34275	30.27123	29.67815	29.78674
42.3	32.00789	32.15088	32.01858	32.00789	31.35399	31.46258
42.6	33.74456	34.03053	34.36475	33.74456	33.70016	33.80874
0.5	0.017988	-0.26798	3.333672	0.017988	2.659896	2.685599
2.1	1.754655	1.61167	3.668838	1.754655	2.995063	3.020766
2.2	3.491321	3.491321	4.674339	3.491321	4.000564	4.026267
2.2	5.227988	5.370973	6.350174	5.227988	5.676398	5.702102
2.2	6.964655	7.250625	8.696343	6.964655	8.022567	8.04827
8.8	9.010896	8.724926	8.488723	9.010896	7.814947	7.84065
11.3	10.74756	10.60458	8.82389	10.74756	8.150114	8.175817
13.1	12.48423	12.48423	9.82939	12.48423	9.155615	9.181318
13.3	14.2209	14.36388	11.50523	14.2209	10.83145	10.85715
13.3	15.95756	16.24353	13.85139	15.95756	13.17762	13.20332
24.9	26.99671	26.71074	29.10893	26.99671	28.43515	28.46085
38.4	28.73338	28.59039	29.44409	28.73338	28.77032	28.79602
44.7	30.47005	30.47005	30.44959	30.47005	29.77582	29.80152
45.6	32.20671	32.3497	32.12543	32.20671	31.45165	31.47736
46	33.94338	34.22935	34.4716	33.94338	33.79782	33.82353
0.6	0.150535	-0.13544	3.523617	0.150535	2.833521	2.704211
2.5	1.887202	1.744217	3.858784	1.887202	3.168688	3.039377

2.5	3.623868	3.623868	4.864285	3.623868	4.174188	4.044878
2.5	5.360535	5.50352	6.540119	5.360535	5.850023	5.720713
2.5	7.097202	7.383172	8.886288	7.097202	8.196192	8.066882
11	9.143443	8.857473	8.678668	9.143443	7.988572	7.859262
15.6	10.88011	10.73712	9.013835	10.88011	8.323739	8.194428
18.2	12.61678	12.61678	10.01934	12.61678	9.329239	9.199929
18.6	14.35344	14.49643	11.69517	14.35344	11.00507	10.87576
18.8	16.09011	16.37608	14.04134	16.09011	13.35124	13.22193
30.2	27.12926	26.84329	29.29887	27.12926	28.60878	28.47947
44.1	28.86593	28.72294	29.63404	28.86593	28.94394	28.81463
49.6	30.60259	30.60259	30.63954	30.60259	29.94944	29.82013
50	32.33926	32.48224	32.31537	32.33926	31.62528	31.49597
50.1	34.07593	34.3619	34.66154	34.07593	33.97145	33.84214

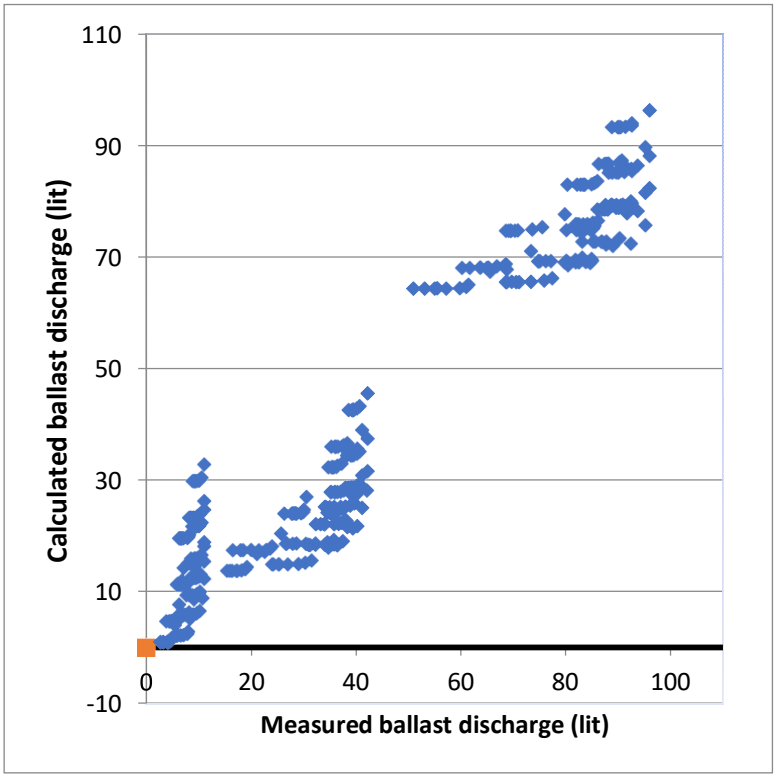
Appendix IX



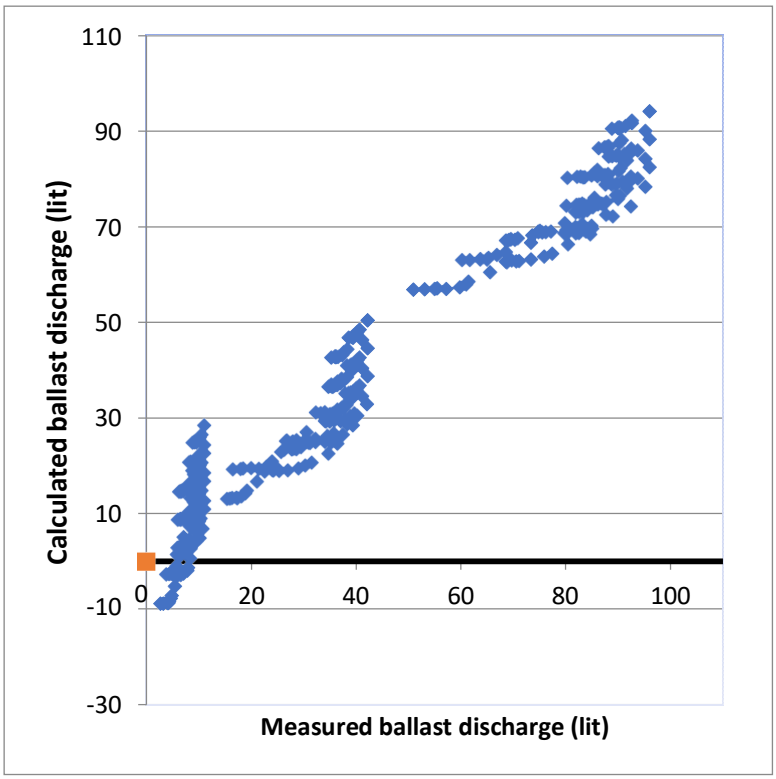
Measured ballast discharge vs calculated ballast discharge medium rain test results for Model1



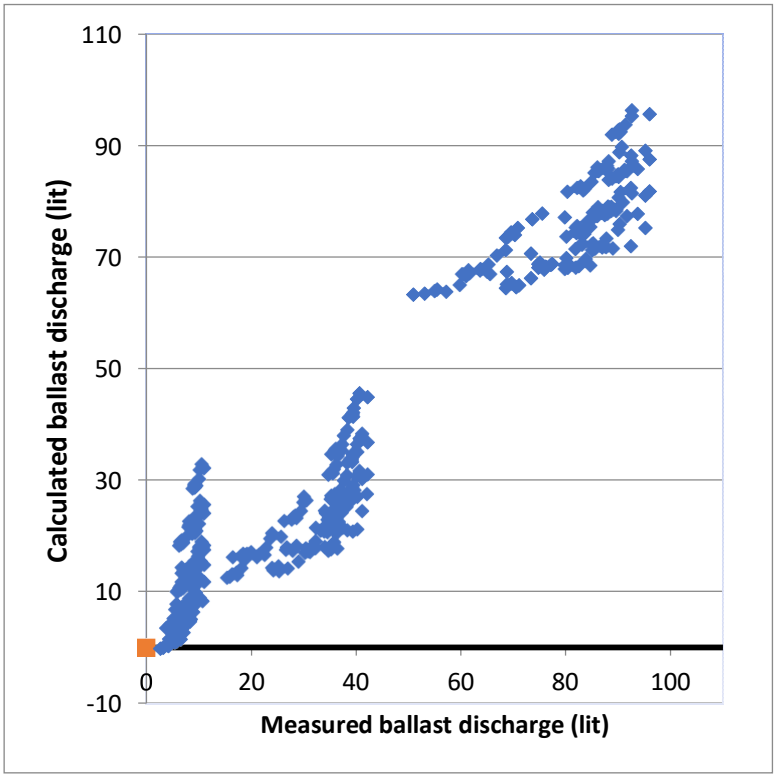
Measured ballast discharge vs calculated ballast discharge medium rain test results for Model2



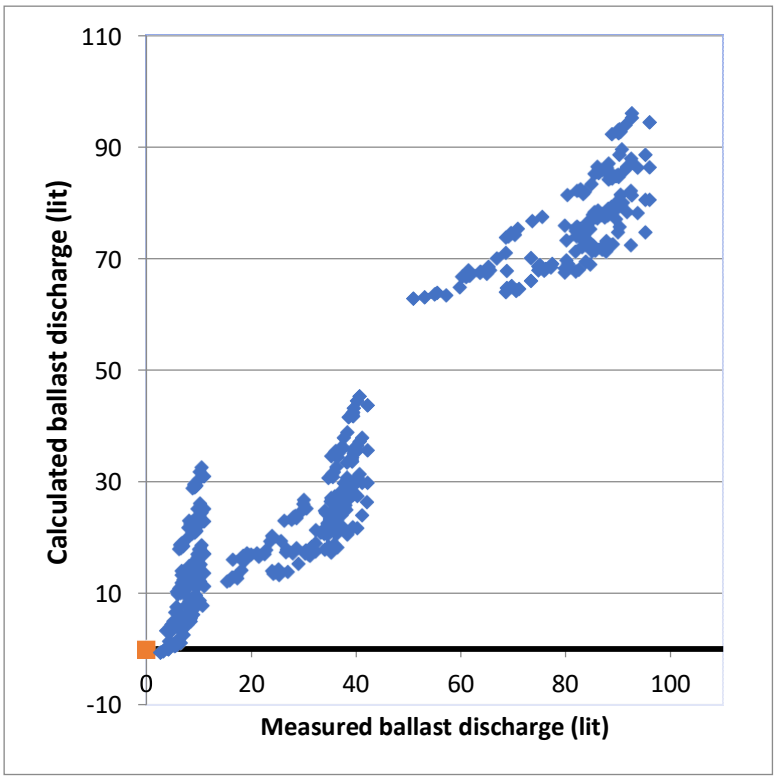
Measured ballast discharge vs calculated ballast discharge medium rain test results for Model3



Measured ballast discharge vs calculated ballast discharge medium rain test results for Model4



Measured ballast discharge vs calculated ballast discharge medium rain test results for Model5



Measured ballast discharge vs calculated ballast discharge medium rain test results for Model6

Medium rain (45 mm/hr)

	Model number					
	1	2	3	4	5	6
y	Negatives predictions					
	26	26	0	26	2	2
Measured ballast discharge (lit)						
5.4	-5.16648	-6.06158	3.977966	-5.16648	3.454692	4.531573
8.3	0.667086	0.219541	5.132578	0.667086	4.609303	5.686185
9	6.500658	6.500658	8.596412	6.500658	8.073137	9.150019
9	12.33423	12.78178	14.36947	12.33423	13.84619	14.92308
9	18.1678	19.06289	22.45175	18.1678	21.92847	23.00536
21	16.73112	15.83603	16.67404	16.73112	16.15076	17.22764
34.6	22.56469	22.11714	17.82865	22.56469	17.30537	18.38226
39.2	28.39826	28.39826	21.29248	28.39826	20.76921	21.84609
39.2	34.23183	34.67938	27.06554	34.23183	26.54227	27.61915
39.2	40.0654	40.96049	35.14782	40.0654	34.62455	35.70143
65.6	60.52632	59.63123	67.45832	60.52632	66.93505	68.01193
80.4	66.35989	65.91235	68.61293	66.35989	68.08966	69.16654
88.9	72.19346	72.19346	72.07677	72.19346	71.55349	72.63038
91.6	78.02704	78.47458	77.84983	78.02704	77.32655	78.40343
91.6	83.86061	84.7557	85.93211	83.86061	85.40883	86.48571
5.5	-3.11384	-4.00893	4.387664	-3.11384	3.862509	4.377996
8.4	2.719729	2.272183	5.542275	2.719729	5.01712	5.532607
9.1	8.553301	8.553301	9.006109	8.553301	8.480954	8.996441
9.1	14.38687	14.83442	14.77917	14.38687	14.25401	14.7695
9.1	20.22044	21.11554	22.86145	20.22044	22.33629	22.85178
22.5	18.78376	17.88867	17.08374	18.78376	16.55858	17.07407
36.3	24.61733	24.16979	18.23835	24.61733	17.71319	18.22868
40.1	30.4509	30.4509	21.70218	30.4509	21.17703	21.69251
40.1	36.28447	36.73202	27.47524	36.28447	26.95008	27.46557
40.1	42.11805	43.01314	35.55752	42.11805	35.03236	35.54785
68.8	62.57896	61.68387	67.86802	62.57896	67.34287	67.85835
84.6	68.41254	67.96499	69.02263	68.41254	68.49748	69.01296
92.3	74.24611	74.24611	72.48647	74.24611	71.96131	72.4768
93.6	80.07968	80.52722	78.25952	80.07968	77.73437	78.24986
93.6	85.91325	86.80834	86.3418	85.91325	85.81665	86.33214
6.2	0.991444	0.096352	7.665241	0.991444	7.125044	6.690573
10.7	6.825015	6.377469	8.819853	6.825015	8.279655	7.845185

11	12.65859	12.65859	12.28369	12.65859	11.74349	11.30902
11	18.49216	18.9397	18.05674	18.49216	17.51655	17.08208
11	24.32573	25.22082	26.13902	24.32573	25.59883	25.16436
25.6	22.88905	21.99395	20.36131	22.88905	19.82112	19.38664
38.2	28.72262	28.27507	21.51592	28.72262	20.97573	20.54126
41	34.55619	34.55619	24.97976	34.55619	24.43956	24.00509
41	40.38976	40.83731	30.75282	40.38976	30.21262	29.77815
41	46.22333	47.11842	38.83509	46.22333	38.2949	37.86043
73.4	66.68425	65.78916	71.1456	66.68425	70.6054	70.17093
87.6	72.51782	72.07028	72.30021	72.51782	71.76001	71.32554
95.1	78.35139	78.35139	75.76404	78.35139	75.22385	74.78938
95.1	84.18496	84.63251	81.5371	84.18496	80.9969	80.56243
95.1	90.01854	90.91363	89.61938	90.01854	89.07918	88.64471
7.1	5.096729	4.201638	14.2204	5.096729	13.65011	12.49613
11	10.9303	10.48275	15.37501	10.9303	14.80473	13.65074
11	16.76387	16.76387	18.83884	16.76387	18.26856	17.11457
11	22.59744	23.04499	24.6119	22.59744	24.04162	22.88763
11	28.43101	29.32611	32.69418	28.43101	32.1239	30.96991
30.4	26.99433	26.09924	26.91647	26.99433	26.34619	25.1922
41.9	32.8279	32.38036	28.07108	32.8279	27.5008	26.34681
42	38.66147	38.66147	31.53491	38.66147	30.96463	29.81064
42	44.49505	44.94259	37.30797	44.49505	36.73769	35.5837
42	50.32862	51.22371	45.39025	50.32862	44.81997	43.66598
79.8	70.78954	69.89444	77.70075	70.78954	77.13047	75.97648
89.5	76.62311	76.17556	78.85537	76.62311	78.28508	77.1311
95.9	82.45668	82.45668	82.3192	82.45668	81.74892	80.59493
95.9	88.29025	88.7378	88.09226	88.29025	87.52197	86.36799
95.9	94.12382	95.01891	96.17454	94.12382	95.60425	94.45027
4.8	-7.10298	-7.35404	1.670501	-7.10298	4.132318	4.539077
7.9	-1.26941	-1.39494	2.825112	-1.26941	5.286929	5.693688
8.1	4.564158	4.564158	6.288946	4.564158	8.750763	9.157522
8.1	10.39773	10.52326	12.062	10.39773	14.52382	14.93058
8.1	16.2313	16.48236	20.14428	16.2313	22.6061	23.01286
19.1	14.79462	14.54356	14.36657	14.79462	16.82839	17.23515
31.4	20.62819	20.50266	15.52118	20.62819	17.983	18.38976
37.3	26.46176	26.46176	18.98502	26.46176	21.44683	21.85359
37.4	32.29533	32.42086	24.75807	32.29533	27.21989	27.62665
37.1	38.1289	38.37996	32.84035	38.1289	35.30217	35.70893
61.5	58.58982	58.33877	65.15086	58.58982	67.61268	68.01943
77.4	64.42339	64.29787	66.30547	64.42339	68.76729	69.17405
84.9	70.25696	70.25696	69.7693	70.25696	72.23112	72.63788
85.4	76.09054	76.21606	75.54236	76.09054	78.00418	78.41094
86	81.92411	82.17516	83.62464	81.92411	86.08646	86.49322
5.7	-0.94506	-1.19611	5.357776	-0.94506	7.80267	7.633174
10.1	4.888515	4.762988	6.512387	4.888515	8.957281	8.787786
10.2	10.72209	10.72209	9.976221	10.72209	12.42112	12.25162
10.2	16.55566	16.68119	15.74928	16.55566	18.19417	18.02468

10.2	22.38923	22.64028	23.83156	22.38923	26.27645	26.10696
23.9	20.95255	20.70149	18.05385	20.95255	20.49874	20.32925
35.6	26.78612	26.66059	19.20846	26.78612	21.65335	21.48386
38	32.61969	32.61969	22.67229	32.61969	25.11719	24.94769
38.1	38.45326	38.57879	28.44535	38.45326	30.89024	30.72075
38.2	44.28683	44.53789	36.52763	44.28683	38.97252	38.80303
68.6	64.74775	64.4967	68.83813	64.74775	71.28303	71.11353
83.1	70.58132	70.45579	69.99274	70.58132	72.43764	72.26814
90.2	76.41489	76.41489	73.45658	76.41489	75.90147	75.73198
90.4	82.24846	82.37399	79.22964	82.24846	81.67453	81.50503
90.6	88.08204	88.33309	87.31191	88.08204	89.75681	89.58731
6.7	3.160229	2.909175	11.91293	3.160229	14.32774	14.06213
10.3	8.993801	8.868273	13.06754	8.993801	15.48235	15.21674
10.5	14.82737	14.82737	16.53138	14.82737	18.94619	18.68057
10.5	20.66094	20.78647	22.30443	20.66094	24.71924	24.45363
10.5	26.49452	26.74557	30.38671	26.49452	32.80152	32.53591
29.9	25.05783	24.80678	24.609	25.05783	27.02381	26.7582
39.5	30.8914	30.76588	25.76361	30.8914	28.17842	27.91281
40.5	36.72497	36.72497	29.22745	36.72497	31.64226	31.37664
40.5	42.55855	42.68407	35.0005	42.55855	37.41531	37.1497
40.5	48.39212	48.64317	43.08278	48.39212	45.49759	45.23198
75.5	68.85304	68.60198	75.39329	68.85304	77.8081	77.54248
86.1	74.68661	74.56108	76.5479	74.68661	78.96271	78.69709
92.3	80.52018	80.52018	80.01173	80.52018	82.42654	82.16093
92.4	86.35375	86.47928	85.78479	86.35375	88.1996	87.93399
92.5	92.18732	92.43838	93.86707	92.18732	96.28188	96.01627
4.6	-7.69883	-7.75172	1.293649	-7.69883	3.123907	3.291004
7.8	-1.86526	-1.8917	2.44826	-1.86526	4.278519	4.445616
8	3.968312	3.968312	5.912094	3.968312	7.742353	7.90945
8	9.801883	9.828328	11.68515	9.801883	13.51541	13.68251
8	15.63545	15.68834	19.76743	15.63545	21.59769	21.76479
18.8	14.19877	14.14588	13.98972	14.19877	15.81998	15.98708
30.2	20.03234	20.0059	15.14433	20.03234	16.97459	17.14169
36.1	25.86591	25.86591	18.60817	25.86591	20.43842	20.60552
36.3	31.69949	31.72593	24.38122	31.69949	26.21148	26.37858
36.3	37.53306	37.58595	32.4635	37.53306	34.29376	34.46086
61.1	57.99398	57.94109	64.77401	57.99398	66.60426	66.77136
75.9	63.82755	63.8011	65.92862	63.82755	67.75888	67.92597
85	69.66112	69.66112	69.39245	69.66112	71.22271	71.38981
85.2	75.49469	75.52113	75.16551	75.49469	76.99577	77.16286
85.4	81.32826	81.38115	83.24779	81.32826	85.07805	85.24514
5.5	-1.5409	-1.59379	4.980923	-1.5409	6.794259	6.672824
9.6	4.292669	4.266224	6.135535	4.292669	7.948871	7.827435
9.7	10.12624	10.12624	9.599369	10.12624	11.4127	11.29127
9.7	15.95981	15.98626	15.37243	15.95981	17.18576	17.06433
9.7	21.79338	21.84627	23.45471	21.79338	25.26804	25.14661
23.5	20.3567	20.30381	17.67699	20.3567	19.49033	19.3689

34.4	26.19027	26.16383	18.83161	26.19027	20.64494	20.52351
37.1	32.02384	32.02384	22.29544	32.02384	24.10878	23.98734
37.5	37.85741	37.88386	28.0685	37.85741	29.88183	29.7604
37.5	43.69099	43.74387	36.15078	43.69099	37.96411	37.84268
66.9	64.1519	64.09901	68.46128	64.1519	70.27462	70.15318
81.8	69.98548	69.95903	69.61589	69.98548	71.42923	71.30779
89.9	75.81905	75.81905	73.07973	75.81905	74.89306	74.77163
90	81.65262	81.67906	78.85278	81.65262	80.66612	80.54468
90.1	87.48619	87.53908	86.93506	87.48619	88.7484	88.62696
6.7	2.564383	2.511494	11.53608	2.564383	13.31933	13.29359
10	8.397955	8.37151	12.69069	8.397955	14.47394	14.4482
10	14.23153	14.23153	16.15452	14.23153	17.93777	17.91204
10.1	20.0651	20.09154	21.92758	20.0651	23.71083	23.68509
10.1	25.89867	25.95156	30.00986	25.89867	31.79311	31.76737
29.8	24.46199	24.4091	24.23215	24.46199	26.0154	25.98966
38.7	30.29556	30.26911	25.38676	30.29556	27.17001	27.14427
39.9	36.12913	36.12913	28.8506	36.12913	30.63385	30.60811
40	41.9627	41.98914	34.62365	41.9627	36.4069	36.38116
40	47.79627	47.84916	42.70593	47.79627	44.48918	44.46344
73.6	68.25719	68.2043	75.01644	68.25719	76.79969	76.77395
85.1	74.09076	74.06432	76.17105	74.09076	77.9543	77.92856
92.5	79.92433	79.92433	79.63488	79.92433	81.41813	81.39239
92.5	85.7579	85.78435	85.40794	85.7579	87.19119	87.16545
92.5	91.59148	91.64436	93.49022	91.59148	95.27347	95.24773
4.3	-8.29468	-8.1494	1.073567	-8.29468	1.542832	1.454517
7.1	-2.46111	-2.38847	2.228178	-2.46111	2.697444	2.609128
7.8	3.372466	3.372466	5.692012	3.372466	6.161278	6.072962
7.8	9.206037	9.133399	11.46507	9.206037	11.93433	11.84602
7.8	15.03961	14.89433	19.54735	15.03961	20.01661	19.9283
18.1	13.60292	13.7482	13.76964	13.60292	14.2389	14.15059
28.9	19.4365	19.50913	14.92425	19.4365	15.39352	15.3052
35.7	25.27007	25.27007	18.38808	25.27007	18.85735	18.76903
36	31.10364	31.031	24.16114	31.10364	24.63041	24.54209
36.1	36.93721	36.79193	32.24342	36.93721	32.71269	32.62437
59.9	57.39813	57.5434	64.55392	57.39813	65.02319	64.93487
73.4	63.2317	63.30434	65.70854	63.2317	66.1778	66.08949
83.8	69.06527	69.06527	69.17237	69.06527	69.64164	69.55332
84.6	74.89884	74.82621	74.94543	74.89884	75.41469	75.32638
84.9	80.73241	80.58714	83.02771	80.73241	83.49697	83.40866
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9.4	9.530394	9.530394	9.379287	9.530394	9.83163	9.742504
9.4	15.36397	15.29133	15.15234	15.36397	15.60469	15.51556
9.5	21.19754	21.05226	23.23462	21.19754	23.68697	23.59784
22.8	19.76085	19.90613	17.45691	19.76085	17.90926	17.82013
32.1	25.59442	25.66706	18.61152	25.59442	19.06387	18.97474
36.5	31.428	31.428	22.07536	31.428	22.5277	22.43858

36.9	37.26157	37.18893	27.84842	37.26157	28.30076	28.21163
37.2	43.09514	42.94986	35.9307	43.09514	36.38304	36.29391
65.3	63.55606	63.70133	68.2412	63.55606	68.69354	68.60442
80.1	69.38963	69.46227	69.39581	69.38963	69.84815	69.75903
87.7	75.2232	75.2232	72.85964	75.2232	73.31199	73.22286
88	81.05677	80.98413	78.6327	81.05677	79.08504	78.99592
88.1	86.89034	86.74507	86.71498	86.89034	87.16732	87.0782
6.7	1.968537	2.113813	11.316	1.968537	11.73825	11.93664
9.6	7.802109	7.874746	12.47061	7.802109	12.89287	13.09125
9.8	13.63568	13.63568	15.93444	13.63568	16.3567	16.55509
10	19.46925	19.39661	21.7075	19.46925	22.12976	22.32814
10	25.30282	25.15755	29.78978	25.30282	30.21204	30.41042
29.4	23.86614	24.01141	24.01207	23.86614	24.43433	24.63271
37.8	29.69971	29.77235	25.16668	29.69971	25.58894	25.78732
39.3	35.53328	35.53328	28.63051	35.53328	29.05277	29.25116
39.4	41.36685	41.29422	34.40357	41.36685	34.82583	35.02421
39.4	47.20042	47.05515	42.48585	47.20042	42.90811	43.10649
70.9	67.66134	67.80662	74.79635	67.66134	75.21861	75.417
84.1	73.49491	73.56755	75.95097	73.49491	76.37322	76.57161
90.8	79.32849	79.32849	79.4148	79.32849	79.83706	80.03544
91.1	85.16206	85.08942	85.18786	85.16206	85.61011	85.8085
91.3	90.99563	90.85035	93.27014	90.99563	93.69239	93.89078
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7	8.839363	8.705751	11.40756	8.839363	10.67673	10.42341
7	14.67293	14.40571	19.48984	14.67293	18.75901	18.50569
17.3	13.23625	13.50347	13.71212	13.23625	12.9813	12.72798
26.9	19.06982	19.20343	14.86674	19.06982	14.13591	13.88259
35.1	24.90339	24.90339	18.33057	24.90339	17.59974	17.34642
35.2	30.73696	30.60335	24.10363	30.73696	23.3728	23.11948
35.2	36.57054	36.30331	32.18591	36.57054	31.45508	31.20176
57.3	57.03145	57.29868	64.49641	57.03145	63.76558	63.51226
71.1	62.86503	62.99864	65.65102	62.86503	64.92019	64.66687
82.5	68.6986	68.6986	69.11486	68.6986	68.38403	68.13071
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8.8	9.16372	9.16372	9.321774	9.16372	8.574023	8.496951
8.9	14.99729	14.86368	15.09483	14.99729	14.34708	14.27001
8.9	20.83086	20.56364	23.17711	20.83086	22.42936	22.35229
21.4	19.39418	19.6614	17.3994	19.39418	16.65165	16.57458
30.3	25.22775	25.36136	18.55401	25.22775	17.80626	17.72919
35.7	31.06132	31.06132	22.01785	31.06132	21.27009	21.19302
36.3	36.89489	36.76128	27.7909	36.89489	27.04315	26.96608
36.4	42.72846	42.46124	35.87318	42.72846	35.12543	35.04836

65	63.18938	63.45661	68.18369	63.18938	67.43593	67.35886
77.2	69.02295	69.15657	69.3383	69.02295	68.59055	68.51347
86.7	74.85653	74.85653	72.80213	74.85653	72.05438	71.97731
87.9	80.6901	80.55649	78.57519	80.6901	77.82744	77.75037
88	86.52367	86.25645	86.65747	86.52367	85.90972	85.83265
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9.5	13.26901	13.26901	15.87693	13.26901	15.09909	15.42757
9.5	19.10258	18.96897	21.64999	19.10258	20.87215	21.20063
9.5	24.93615	24.66892	29.73227	24.93615	28.95443	29.28291
28.5	23.49946	23.76669	23.95455	23.49946	23.17672	23.5052
36.9	29.33304	29.46665	25.10917	29.33304	24.33133	24.65981
38.9	35.16661	35.16661	28.573	35.16661	27.79516	28.12364
39	41.00018	40.86657	34.34606	41.00018	33.56822	33.8967
39.1	46.83375	46.56653	42.42834	46.83375	41.6505	41.97898
70.3	67.29467	67.56189	74.73884	67.29467	73.961	74.28948
82.5	73.12824	73.26185	75.89345	73.12824	75.11562	75.4441
89.6	78.96181	78.96181	79.35729	78.96181	78.57945	78.90793
90	84.79538	84.66177	85.13034	84.79538	84.35251	84.68099
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6.7	14.79325	14.56604	19.50216	14.79325	19.19557	18.99704
17.1	13.35657	13.58378	13.72445	13.35657	13.41785	13.21933
25.1	19.19014	19.30374	14.87906	19.19014	14.57247	14.37394
33.9	25.02371	25.02371	18.3429	25.02371	18.0363	17.83778
35.3	30.85728	30.74368	24.11595	30.85728	23.80936	23.61084
35.6	36.69085	36.46364	32.19823	36.69085	31.89164	31.69312
55.6	57.15177	57.37898	64.50874	57.15177	64.20214	64.00362
69.7	62.98534	63.09895	65.66335	62.98534	65.35675	65.15823
80.4	68.81891	68.81891	69.12718	68.81891	68.82059	68.62206
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7.8	3.450463	3.564068	5.870267	3.450463	5.546746	5.466377
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19.9	19.51449	19.7417	17.41173	19.51449	17.08821	17.00784
28.5	25.34807	25.46167	18.56634	25.34807	18.24282	18.16245
33.9	31.18164	31.18164	22.03017	31.18164	21.70665	21.62628
35.8	37.01521	36.9016	27.80323	37.01521	27.47971	27.39934
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63.8	63.3097	63.53691	68.19601	63.3097	67.87249	67.79212
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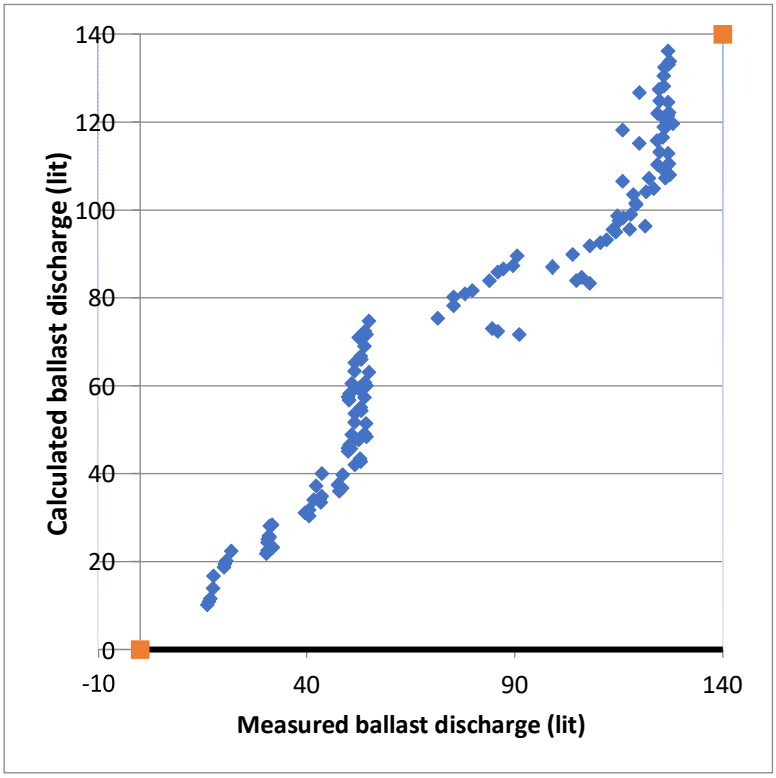
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87.8	86.64398	86.41677	86.66979	86.64398	86.34627	86.2659
6.5	1.722178	1.949387	11.27081	1.722178	10.91721	11.20366
9.1	7.555749	7.669354	12.42542	7.555749	12.07182	12.35827
9.2	13.38932	13.38932	15.88926	13.38932	15.53565	15.8221
9.2	19.22289	19.10929	21.66231	19.22289	21.30871	21.59516
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38.8	35.28692	35.28692	28.58533	35.28692	28.23172	28.51817
39.1	41.12049	41.00689	34.35838	41.12049	34.00478	34.29123
39.3	46.95407	46.72686	42.44066	46.95407	42.08706	42.37351
69.6	67.41498	67.64219	74.75117	67.41498	74.39756	74.68401
82.1	73.24856	73.36216	75.90578	73.24856	75.55217	75.83862
88.6	79.08213	79.08213	79.36961	79.08213	79.01601	79.30246
89.9	84.9157	84.80209	85.14267	84.9157	84.78906	85.07551
90.1	90.74927	90.52206	93.22495	90.74927	92.87134	93.15779
3.2	-8.74385	-8.44919	1.011295	-8.74385	-0.02762	-0.31889
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6.5	8.756861	8.60953	11.4028	8.756861	10.36388	10.07261
6.6	14.59043	14.29577	19.48508	14.59043	18.44616	18.15489
15.9	13.15375	13.44841	13.70737	13.15375	12.66845	12.37718
24.1	18.98732	19.13465	14.86198	18.98732	13.82306	13.53179
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35.4	36.48803	36.19337	32.18115	36.48803	31.14223	30.85096
53.2	56.94895	57.24361	64.49165	56.94895	63.45273	63.16146
70.6	62.78252	62.92986	65.64626	62.78252	64.60735	64.31608
81.9	68.6161	68.6161	69.1101	68.6161	68.07118	67.77991
83.1	74.44967	74.30234	74.88315	74.44967	73.84424	73.55297
83.3	80.28324	79.98858	82.96543	80.28324	81.92652	81.63525
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8.5	14.91479	14.76746	15.09007	14.91479	14.03423	13.95905
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39	35.08411	35.08411	28.56824	35.08411	27.48232	27.83924
39.1	40.91768	40.77035	34.3413	40.91768	33.25537	33.6123
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16.3	13.28094	13.5333	13.71596	13.28094	13.14617	12.91328
23.9	19.11451	19.24069	14.87057	19.11451	14.30078	14.06789
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63.7	63.23407	63.48643	68.18752	63.23407	67.60081	67.52259
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83.1	74.90121	74.90121	72.80596	74.90121	72.21926	72.14103
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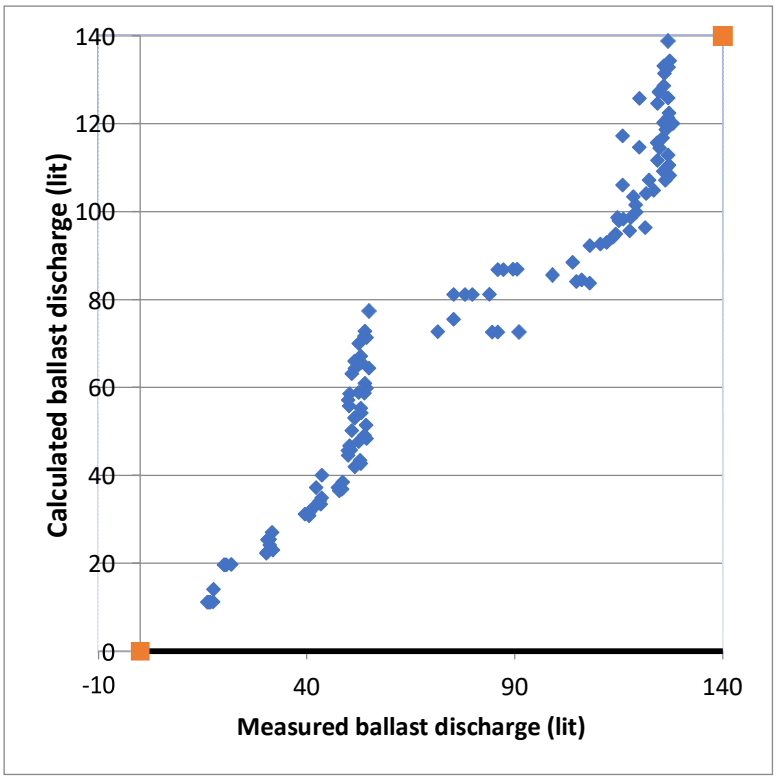
8.8	7.480122	7.606303	12.41693	7.480122	11.80013	12.11308
9.1	13.31369	13.31369	15.88076	13.31369	15.26397	15.57691
9.1	19.14727	19.02108	21.65382	19.14727	21.03703	21.34997
9.1	24.98084	24.72848	29.7361	24.98084	29.11931	29.43225
27.9	23.54415	23.79651	23.95839	23.54415	23.34159	23.65454
33.9	29.37772	29.50391	25.113	29.37772	24.49621	24.80915
38.4	35.2113	35.2113	28.57683	35.2113	27.96004	28.27298
38.8	41.04487	40.91869	34.34989	41.04487	33.7331	34.04604
39.1	46.87844	46.62608	42.43217	46.87844	41.81538	42.12832
69.5	67.33936	67.59172	74.74267	67.33936	74.12588	74.43882
81.9	73.17293	73.29911	75.89728	73.17293	75.28049	75.59344
88.8	79.0065	79.0065	79.36112	79.0065	78.74433	79.05727
89.5	84.84007	84.71389	85.13418	84.84007	84.51738	84.83033
89.8	90.67364	90.42128	93.21646	90.67364	92.59966	92.91261
2.7	-8.79198	-8.48131	1.009907	-8.79198	-0.21519	-0.52873
5.4	-2.95841	-2.80307	2.164518	-2.95841	0.939423	0.625878
5.9	2.875163	2.875163	5.628352	2.875163	4.403258	4.089712
6	8.708735	8.553401	11.40141	8.708735	10.17631	9.862769
6.2	14.54231	14.23164	19.48369	14.54231	18.25859	17.94505
15.3	13.10562	13.41629	13.70598	13.10562	12.48088	12.16734
25.2	18.93919	19.09453	14.86059	18.93919	13.63549	13.32195
31.1	24.77277	24.77277	18.32442	24.77277	17.09933	16.78578
34.4	30.60634	30.451	24.09748	30.60634	22.87239	22.55884
34.6	36.43991	36.12924	32.17976	36.43991	30.95467	30.64112
51.1	56.90083	57.21149	64.49026	56.90083	63.26517	62.95162
68.6	62.7344	62.88973	65.64488	62.7344	64.41978	64.10623
79.8	68.56797	68.56797	69.10871	68.56797	67.88361	67.57007
80.1	74.40154	74.24621	74.88177	74.40154	73.65667	73.34313
80.3	80.23511	79.92444	82.96405	80.23511	81.73895	81.42541
3.8	-2.63405	-2.32338	4.697182	-2.63405	3.455164	3.380945
6.9	3.199521	3.354854	5.851793	3.199521	4.609775	4.535557
7.6	9.033092	9.033092	9.315627	9.033092	8.07361	7.999391
7.9	14.86666	14.71133	15.08868	14.86666	13.84667	13.77245
8.1	20.70023	20.38957	23.17096	20.70023	21.92895	21.85473
16.4	19.26355	19.57422	17.39325	19.26355	16.15124	16.07702
27.8	25.09712	25.25246	18.54786	25.09712	17.30585	17.23163
33.8	30.93069	30.93069	22.0117	30.93069	20.76968	20.69546
35	36.76427	36.60893	27.78476	36.76427	26.54274	26.46852
35.1	42.59784	42.28717	35.86704	42.59784	34.62502	34.5508
60.3	63.05876	63.36942	68.17754	63.05876	66.93552	66.8613
74.8	68.89233	69.04766	69.33215	68.89233	68.09013	68.01591
85.6	74.7259	74.7259	72.79598	74.7259	71.55397	71.47975
86	80.55947	80.40414	78.56904	80.55947	77.32702	77.25281
86.2	86.39304	86.08237	86.65132	86.39304	85.4093	85.33508
5.8	1.471235	1.781902	11.25234	1.471235	9.980234	10.35362
8.3	7.304806	7.46014	12.40695	7.304806	11.13485	11.50823
8.5	13.13838	13.13838	15.87078	13.13838	14.59868	14.97206

8.7	18.97195	18.81662	21.64384	18.97195	20.37174	20.74512
8.8	24.80552	24.49485	29.72612	24.80552	28.45402	28.8274
26.2	23.36884	23.6795	23.94841	23.36884	22.67631	23.04969
34.8	29.20241	29.35774	25.10302	29.20241	23.83092	24.2043
37.8	35.03598	35.03598	28.56685	35.03598	27.29475	27.66814
38.1	40.86955	40.71422	34.33991	40.86955	33.06781	33.44119
38.4	46.70312	46.39245	42.42219	46.70312	41.15009	41.52347
68.6	67.16404	67.47471	74.73269	67.16404	73.46059	73.83398
81.9	72.99761	73.15295	75.88731	72.99761	74.6152	74.98859
87.5	78.83118	78.83118	79.35114	78.83118	78.07904	78.45242
88.1	84.66476	84.50942	85.1242	84.66476	83.85209	84.22548
88.7	90.49833	90.18766	93.20648	90.49833	91.93437	92.30776

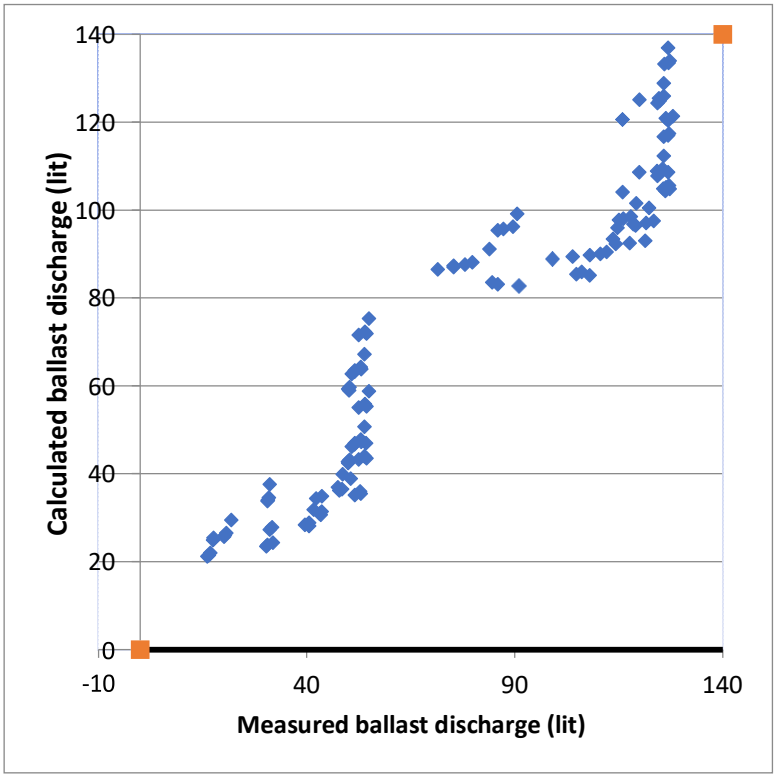
Appendix X



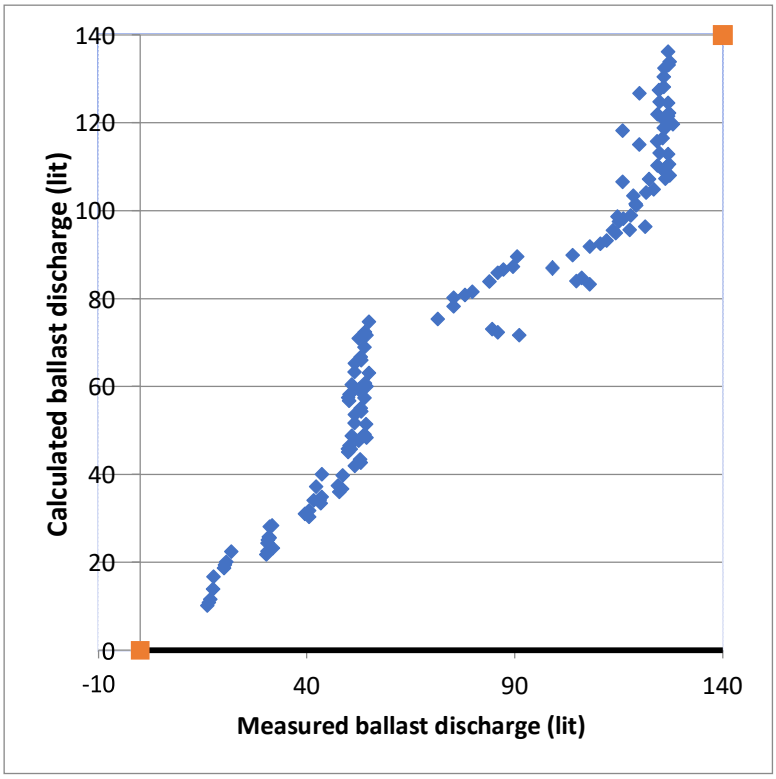
Measured ballast discharge vs calculated ballast discharge storm event test results for Model1



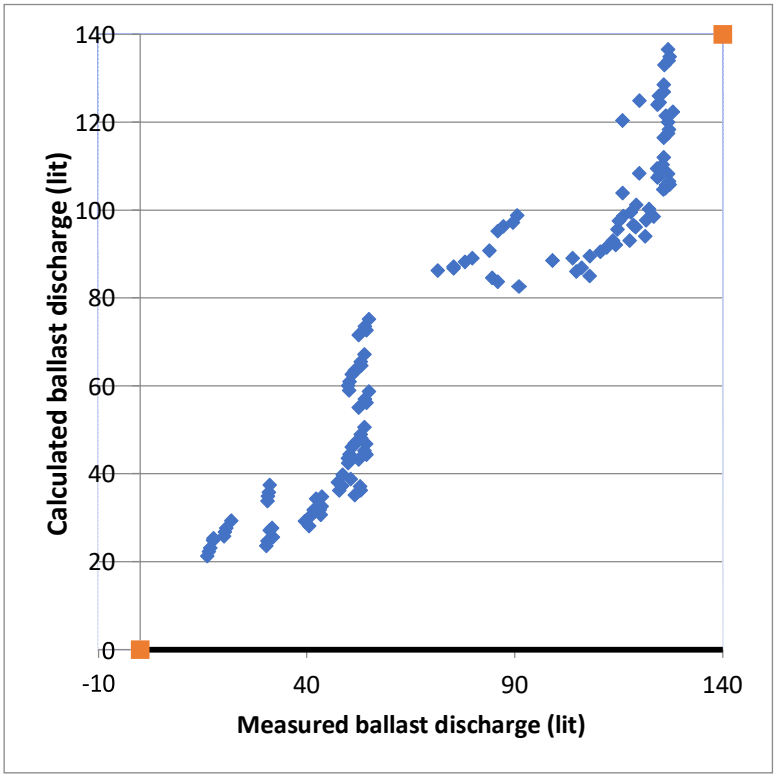
Measured ballast discharge vs calculated ballast discharge storm event test results for Model2



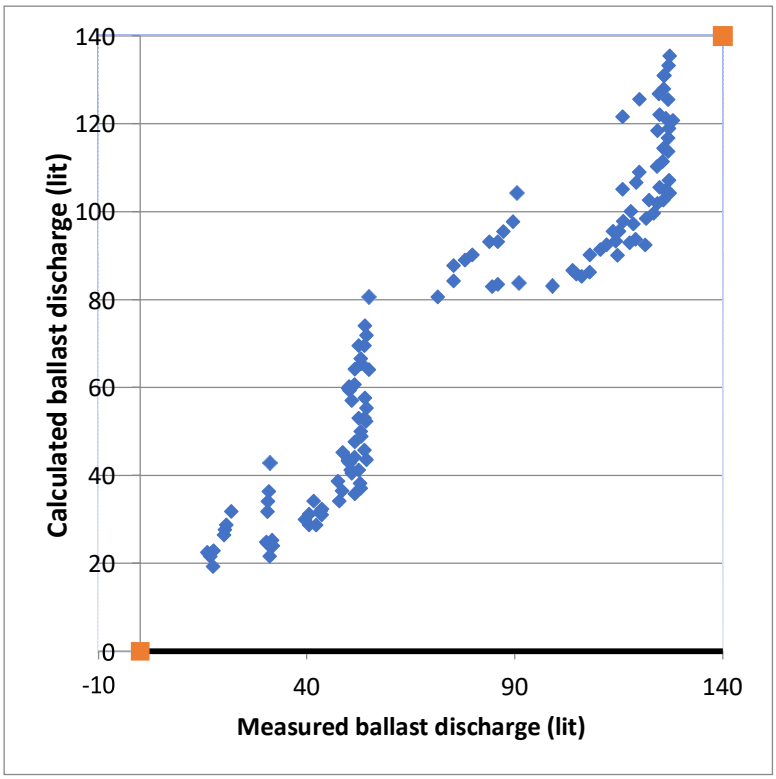
Measured ballast discharge vs calculated ballast discharge storm event test results for Model3



Measured ballast discharge vs calculated ballast discharge storm event test results for Model4



Measured ballast discharge vs calculated ballast discharge storm event test results for Model5



Measured ballast discharge vs calculated ballast discharge storm event test results for Model6

Storm event (100 mm/hr)

	Model number					
	1	2	3	4	5	6
y	Negatives predictions					
	0	0	0	0	0	0
Measured ballast discharge (lit)						
17.5	13.88986	11.2023	24.90545	13.88986	24.80437	19.26644
31.1	25.53381	24.19003	27.26684	25.53381	27.16576	21.62783
42.3	37.17776	37.17776	34.35101	37.17776	34.24992	28.712
50.8	48.8217	50.16548	46.15795	48.8217	46.05687	40.51894
50.8	60.46565	63.15321	62.68767	60.46565	62.58658	57.04866
71.5	75.36528	72.67772	86.52013	75.36528	86.18923	80.6555
99.1	87.00922	85.66544	88.88152	87.00922	88.55062	83.01689
114.7	98.65317	98.65317	95.96568	98.65317	95.63479	90.10105
124.3	110.2971	111.6409	107.7726	110.2971	107.4417	101.908
124.3	121.9411	124.6286	124.3023	121.9411	123.9714	118.4377
17.6	16.73514	14.04758	25.40993	16.73514	25.30768	22.89158
31.7	28.37909	27.03531	27.77132	28.37909	27.66907	25.25297
43.7	40.02304	40.02304	34.85548	40.02304	34.75323	32.33713
51.5	51.66698	53.01076	46.66243	51.66698	46.56018	44.14407
51.5	63.31093	65.99849	63.19214	63.31093	63.08989	60.67379
75.3	78.21056	75.52299	87.02461	78.21056	86.69254	84.28063
103.9	89.8545	88.51072	89.38599	89.8545	89.05393	86.64202
119.1	101.4985	101.4985	96.47016	101.4985	96.1381	93.72618
124.8	113.1424	114.4862	108.2771	113.1424	107.945	105.5331
124.8	124.7863	127.4739	124.8068	124.7863	124.4748	122.0628
21.9	22.4257	19.73814	29.44574	22.4257	29.33415	31.78457
41.7	34.06965	32.72587	31.80712	34.06965	31.69554	34.14596
50.6	45.71359	45.71359	38.89129	45.71359	38.77971	41.23012
53.9	57.35754	58.70132	50.69823	57.35754	50.58665	53.03707
53.9	69.00149	71.68905	67.22795	69.00149	67.11637	69.56679
83.9	83.90112	81.21355	91.06041	83.90112	90.71902	93.17362
113.6	95.54506	94.20128	93.4218	95.54506	93.08041	95.53501
122.3	107.189	107.189	100.506	107.189	100.1646	102.6192
125.8	118.833	120.1767	112.3129	118.833	111.9715	114.4261
125.8	130.4769	133.1645	128.8426	130.4769	128.5012	130.9558
31.1	28.11626	25.4287	37.51735	28.11626	37.3871	42.86787
48.7	39.76021	38.41642	39.87873	39.76021	39.74849	45.22926

54.3	51.40415	51.40415	46.9629	51.40415	46.83266	52.31342
55	63.0481	64.39188	58.76984	63.0481	58.6396	64.12036
55	74.69205	77.37961	75.29956	74.69205	75.16932	80.65008
90.6	89.59167	86.90411	99.13202	89.59167	98.77197	104.2569
119.2	101.2356	99.89184	101.4934	101.2356	101.1334	106.6183
126.8	112.8796	112.8796	108.5776	112.8796	108.2175	113.7025
126.8	124.5235	125.8673	120.3845	124.5235	120.0245	125.5094
126.8	136.1675	138.855	136.9142	136.1675	136.5542	142.0391
16.8	11.57558	11.15065	21.9345	11.57558	23.14647	21.56673
31.9	23.21953	23.00706	24.29589	23.21953	25.50786	23.92811
43.6	34.86348	34.86348	31.38005	34.86348	32.59203	31.01228
50.3	46.50743	46.7199	43.187	46.50743	44.39897	42.81922
50.3	58.15137	58.57631	59.71671	58.15137	60.92869	59.34894
84.6	73.051	72.62606	83.54918	73.051	84.53134	82.95578
106.1	84.69495	84.48248	85.91056	84.69495	86.89273	85.31717
121.4	96.3389	96.3389	92.99473	96.3389	93.97689	92.40133
127.2	107.9828	108.1953	104.8017	107.9828	105.7838	104.2083
128	119.6268	120.0517	121.3314	119.6268	122.3136	120.738
20.7	20.11142	19.68649	26.47478	20.11142	27.67626	28.77507
40.6	31.75537	31.5429	28.83617	31.75537	30.03765	31.13645
52.8	43.39932	43.39932	35.92033	43.39932	37.12181	38.22062
53	55.04327	55.25573	47.72728	55.04327	48.92875	50.02756
53	66.68721	67.11215	64.257	66.68721	65.45847	66.55728
79.8	81.58684	81.1619	88.08946	81.58684	89.06112	90.16412
112.1	93.23079	93.01832	90.45084	93.23079	91.42251	92.52551
123.4	104.8747	104.8747	97.53501	104.8747	98.50668	99.60967
125.5	116.5187	116.7312	109.342	116.5187	110.3136	111.4166
125.8	128.1626	128.5876	125.8717	128.1626	126.8433	127.9463
30.9	25.80198	25.37704	34.54639	25.80198	35.72921	36.3185
47.5	37.44593	37.23346	36.90778	37.44593	38.0906	38.67989
53.9	49.08988	49.08988	43.99195	49.08988	45.17476	45.76406
54	60.73382	60.94629	55.79889	60.73382	56.9817	57.571
54	72.37777	72.80271	72.32861	72.37777	73.51142	74.10072
89.6	87.2774	86.85246	96.16107	87.2774	97.11407	97.70756
117.9	98.92135	98.70888	98.52246	98.92135	99.47546	100.0689
127.1	110.5653	110.5653	105.6066	110.5653	106.5596	107.1531
127.1	122.2092	122.4217	117.4136	122.2092	118.3666	118.9601
127.2	133.8532	134.2781	133.9433	133.8532	134.8963	135.4898
16.5	10.8635	11.13475	21.44929	10.8635	22.26166	22.06319
30.6	22.50745	22.64307	23.81068	22.50745	24.62305	24.42458
43.1	34.15139	34.15139	30.89484	34.15139	31.70721	31.50875
49.9	45.79534	45.65971	42.70178	45.79534	43.51415	43.31569
50	57.43929	57.16803	59.2315	57.43929	60.04387	59.84541
85.9	72.33892	72.61017	83.06396	72.33892	83.64652	83.45225
104.8	83.98286	84.11849	85.42535	83.98286	86.00791	85.81363
117.6	95.62681	95.62681	92.50952	95.62681	93.09207	92.8978
126.2	107.2708	107.1351	104.3165	107.2708	104.899	104.7047

126.3	118.9147	118.6435	120.8462	118.9147	121.4287	121.2345
20.4	19.39934	19.67059	25.98957	19.39934	26.79144	27.63775
39.6	31.04329	31.17891	28.35096	31.04329	29.15283	29.99914
53	42.68723	42.68723	35.43512	42.68723	36.237	37.08331
53.1	54.33118	54.19555	47.24206	54.33118	48.04394	48.89025
53.1	65.97513	65.70387	63.77178	65.97513	64.57366	65.41997
78.1	80.87475	81.14601	87.60424	80.87475	88.17631	89.0268
110.6	92.5187	92.65433	89.96563	92.5187	90.53769	91.38819
121.6	104.1626	104.1626	97.0498	104.1626	97.62186	98.47236
124.2	115.8066	115.671	108.8567	115.8066	109.4288	110.2793
124.7	127.4505	127.1793	125.3865	127.4505	125.9585	126.809
30.7	25.0899	25.36115	34.06118	25.0899	34.84439	34.092
48.5	36.73384	36.86947	36.42257	36.73384	37.20578	36.45339
54.4	48.37779	48.37779	43.50673	48.37779	44.28995	43.53756
54.4	60.02174	59.88611	55.31368	60.02174	56.09689	55.3445
54.4	71.66569	71.39443	71.84339	71.66569	72.62661	71.87422
87.3	86.56531	86.83657	95.67585	86.56531	96.22926	95.48106
116.1	98.20926	98.34489	98.03724	98.20926	98.59064	97.84244
126.4	109.8532	109.8532	105.1214	109.8532	105.6748	104.9266
126.8	121.4972	121.3615	116.9284	121.4972	117.4818	116.7336
127	133.1411	132.8698	133.4581	133.1411	134.0115	133.2633
16.1	10.15141	11.11886	21.16592	10.15141	21.20051	22.46022
30.3	21.79536	22.27909	23.52731	21.79536	23.5619	24.82161
43.4	33.43931	33.43931	30.61148	33.43931	30.64607	31.90577
50	45.08326	44.59953	42.41842	45.08326	42.45301	43.71271
50.2	56.7272	55.75976	58.94814	56.7272	58.98273	60.24243
91.1	71.62683	72.59428	82.7806	71.62683	82.58538	83.84927
108	83.27078	83.7545	85.14199	83.27078	84.94677	86.21066
114.3	94.91473	94.91473	92.22615	94.91473	92.03093	93.29483
115.9	106.5587	106.0749	104.0331	106.5587	103.8379	105.1018
115.9	118.2026	117.2352	120.5628	118.2026	120.3676	121.6315
20.1	18.68725	19.6547	25.70621	18.68725	25.7303	26.401
40.6	30.3312	30.81492	28.06759	30.3312	28.09169	28.76239
51.6	41.97515	41.97515	35.15176	41.97515	35.17585	35.84655
51.6	53.6191	53.13537	46.9587	53.6191	46.98279	47.65349
51.6	65.26304	64.2956	63.48842	65.26304	63.51251	64.18321
75.3	80.16267	81.13012	87.32088	80.16267	87.11516	87.79005
108.1	91.80662	92.29034	89.68227	91.80662	89.47655	90.15144
118.5	103.4506	103.4506	96.76643	103.4506	96.56072	97.2356
119.9	115.0945	114.6108	108.5734	115.0945	108.3677	109.0425
120	126.7385	125.771	125.1031	126.7385	124.8974	125.5723
30.6	24.37781	25.34526	33.77782	24.37781	33.78325	31.76606
47.8	36.02176	36.50548	36.1392	36.02176	36.14464	34.12745
52.5	47.66571	47.66571	43.22337	47.66571	43.2288	41.21161
52.5	59.30965	58.82593	55.03031	59.30965	55.03574	53.01856
52.5	70.9536	69.98616	71.56003	70.9536	71.56546	69.54827
85.9	85.85323	86.82067	95.39249	85.85323	95.16811	93.15511

115.1	97.49718	97.9809	97.75388	97.49718	97.5295	95.5165
125.7	109.1411	109.1411	104.838	109.1411	104.6137	102.6007
125.8	120.7851	120.3013	116.645	120.7851	116.4206	114.4076
126	132.429	131.4616	133.1747	132.429	132.9503	130.9373
15.9	9.713208	11.10908	21.09187	9.713208	20.45986	22.65512
29.8	21.35716	22.05509	23.45326	21.35716	22.82125	25.01651
41.8	33.0011	33.0011	30.53743	33.0011	29.90542	32.10067
49.7	44.64505	43.94711	42.34437	44.64505	41.71236	43.90761
49.8	56.289	54.89313	58.87409	56.289	58.24208	60.43733
91.3	71.18862	72.5845	82.70655	71.18862	81.84472	84.04417
106.9	82.83257	83.53051	85.06794	82.83257	84.20611	86.40556
117.5	94.47652	94.47652	92.1521	94.47652	91.29028	93.48972
122.3	106.1205	105.4225	103.959	106.1205	103.0972	105.2967
123.1	117.7644	116.3685	120.4888	117.7644	119.6269	121.8264
19.6	18.24905	19.64492	25.63215	18.24905	24.98965	25.59049
38.8	29.89299	30.59093	27.99354	29.89299	27.35103	27.95188
49.9	41.53694	41.53694	35.07771	41.53694	34.4352	35.03604
50	53.18089	52.48295	46.88465	53.18089	46.24214	46.84299
50.1	64.82484	63.42896	63.41437	64.82484	62.77186	63.3727
71.9	79.72446	81.12034	87.24683	79.72446	86.37451	86.97954
106.3	91.36841	92.06635	89.60822	91.36841	88.7359	89.34093
117.4	103.0124	103.0124	96.69238	103.0124	95.82006	96.4251
117.9	114.6563	113.9584	108.4993	114.6563	107.627	108.232
118.3	126.3003	124.9044	125.029	126.3003	124.1567	124.7618
29.9	23.93961	25.33548	33.70376	23.93961	33.0426	30.28529
46.6	35.58355	36.28149	36.06515	35.58355	35.40398	32.64667
51.1	47.2275	47.2275	43.14932	47.2275	42.48815	39.73084
51.3	58.87145	58.17351	54.95626	58.87145	54.29509	51.53778
51.3	70.5154	69.11952	71.48598	70.5154	70.82481	68.0675
93.4	85.41502	86.81089	95.31844	85.41502	94.42746	91.67434
113.9	97.05897	97.75691	97.67983	97.05897	96.78885	94.03573
123.2	108.7029	108.7029	104.764	108.7029	103.873	101.1199
123.8	120.3469	119.6489	116.5709	120.3469	115.68	112.9268
124	131.9908	130.5949	133.1007	131.9908	132.2097	129.4566
15.5	9.856995	11.11229	21.10775	9.856995	20.71025	22.59532
33.8	21.50094	22.12859	23.46913	21.50094	23.07164	24.95671
43.8	33.14489	33.14489	30.5533	33.14489	30.1558	32.04087
48.9	44.78884	44.16119	42.36024	44.78884	41.96274	43.84781
48.9	56.43278	55.17749	58.88996	56.43278	58.49246	60.37753
19.1	18.39283	19.64813	25.64803	18.39283	25.24003	25.86059
38.7	30.03678	30.66443	28.00941	30.03678	27.60142	28.22198
49.1	41.68073	41.68073	35.09358	41.68073	34.68559	35.30614
49.3	53.32468	52.69703	46.90052	53.32468	46.49253	47.11308
49.5	64.96862	63.71333	63.43024	64.96862	63.02225	63.6428
29.1	24.08339	25.33869	33.71964	24.08339	33.29298	30.77532
45.9	35.72734	36.35499	36.08103	35.72734	35.65437	33.1367
50.3	47.37129	47.37129	43.16519	47.37129	42.73854	40.22087

50.4	59.01523	58.38759	54.97213	59.01523	54.54548	52.02781
50.6	70.65918	69.40389	71.50185	70.65918	71.0752	68.55753
14.9	9.614612	11.10688	21.08575	9.614612	20.28401	22.69378
31.7	21.25856	22.00469	23.44713	21.25856	22.6454	25.05517
41.5	32.90251	32.90251	30.5313	32.90251	29.72957	32.13933
43.9	44.54645	43.80032	42.33824	44.54645	41.53651	43.94627
44	56.1904	54.69813	58.86796	56.1904	58.06623	60.47599
18.3	18.15045	19.64272	25.62603	18.15045	24.8138	25.40294
36.6	29.7944	30.54053	27.98742	29.7944	27.17519	27.76433
48.5	41.43835	41.43835	35.07158	41.43835	34.25935	34.84849
48.6	53.08229	52.33616	46.87852	53.08229	46.06629	46.65543
48.7	64.72624	63.23397	63.40824	64.72624	62.59601	63.18515
28.7	23.84101	25.33328	33.69764	23.84101	32.86675	29.94692
46.1	35.48496	36.23109	36.05903	35.48496	35.22814	32.30831
50	47.1289	47.1289	43.14319	47.1289	42.3123	39.39247
50.3	58.77285	58.02672	54.95013	58.77285	54.11924	51.19942
50.3	70.4168	68.92453	71.47985	70.4168	70.64896	67.72914