

CHARACTERISATION AND PREDICTION OF
PARTICLE ATTRITION IN LEAN PHASE PNEUMATIC
CONVEYORS: THE INFLUENCE OF PARTICLE
CONCENTRATION

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VOLUME 2

DECLARATION

I certify that the work contained in this thesis, or any part of it, has not been accepted in substance for any previous degree awarded to me, and is not concurrently being submitted for any degree other than that of Doctor of Philosophy being studied at the University of Greenwich. I also declare that this work is the result of my own investigations, except where otherwise identified by references and that the contents are not the outcome of any form of research misconduct.

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ABSTRACT

This thesis aimed to determine the influence of particle concentration on the magnitude of measured particle attrition within horizontal, homogeneous lean phase pneumatic conveying systems. Furthermore, to propose a characterisation method for predicting the magnitude of particle attrition in such pneumatic conveying systems.

After conducting an extensive literature review, no conclusive research which quantitatively described the relationship between particle concentration and the magnitude of particle attrition inflicted within lean phase pneumatic conveying was found. Additionally, there was no generally accepted model to predict the magnitude of particle attrition caused by such systems.

Two test facilities were designed, constructed, commissioned and employed for the experimental programme:

- A 'centrifugal accelerator style' particle impact tester; for characterisation of particle attrition behaviour under closely controlled impact velocities and angles.
- A pilot scale vacuum pressure pneumatic conveying system containing a single bend; to study the influence of geometric and conveying variables, on particle attrition.

From experiments with the above test facilities, no indication that particle concentration affected the magnitude of particle attrition could be discerned. However, experimentation using industrially-sized pneumatic conveyors, found increasing particle concentration reduced attrition. For the industrial systems it was proposed that reduced attrition was due to their geometrical features which influenced the relationship between the particle velocity distribution and particle concentration.

The centrifugal impact tester was used to carry out factorial experiments to determine the individual influences of particle impact velocity, angle, and particle size. An interpolation method was proposed, to reduce the number of experiments required to characterise particle attrition behaviour. Through evaluating different techniques for calculating the mean particle impact angle at the bend in the pilot scale vacuum conveyor, the particle attrition behaviour was reconciled to that measured in the centrifugal impact tester. This enabled the prediction of particle attrition within such lean phase pneumatic conveying systems, based on a bench scale characterisation technique.

NOMENCLATURE

Symbol	Definition	Pages
<i>Arabic Symbols</i>		
A	Ore impact breakage parameter (-)	33
	Area (m ²)	184-185
	Projected area of particle (m ²)	245
A_0	Initial contact area (m ²)	26
A_1	Post-impact contact area (m ²)	26
A_F	Empirically obtained model parameter	30-31
A_p	Projected impact area of particle stream (m ²)	229
A_r	Archimedes number (-)	249, 255
b	Ore impact breakage parameter (-)	33
	Material-specific, empirically-determined constant (-)	272, 279
B	Breakage matrix (-)	66
B_F	Empirically obtained model parameter	30-31
c	Curve fit parameter (-)	61-62
	Distance to the point farthest from the neutral axis (m)	160
	Material-specific, empirically-determined constant (-)	272, 279
C_D	Coefficient of drag (-)	245-246, 249
C_p	Particle impact velocity (m/s)	62
d	Particle diameter (m)	254-255
	Material-specific, empirically-determined constant (-)	272, 279
d_i	Mean size of the size fraction correlating to w_i (mm)	66-67
d_{mean}	Particle mean sieve diameter (mm)	30-31
d_p	Particle diameter (m)	249

D	Pipe diameter (m)	237, 249, 254
D_d	Diameter of the spinning disc (m)	94
D_F	Empirically obtained model parameter	30-31
D_n^*	Damage sustained by a particle on the n^{th} impact (-)	44
e	Euler's number (-)	279
E_{cs}	Specific comminution energy (kW h/t)	33
$E_{k,n}$	Kinetic energy of a striker at the n^{th} impact per unit mass of the particle (J/kg)	44
E_{min}	Specific comminution energy threshold (kW h/t)	33
E_{n-1}	Energy required to completely disintegrate the particle, per unit mass of the particle in the previous impact event (J/kg)	44
f	Coefficient of friction (-)	249
f_{Mat}^*	Adjusted material parameter (kg/Jm)	30
F_c	Crushing force (N)	30-31
F_D	Drag force (N)	245
g	Acceleration due to gravity (m/s ²)	250, 254-255
\dot{G}	Mass flow rate of solids (kg/s)	254
i	Input particle size distribution column matrix (-)	66
I	Second moment of area (mm ⁴)	160
I_c	Second moment of area of a circle (mm ⁴)	160
k	Number of impacts (-)	30
L_{acc}	Particle acceleration length (m)	255
L_{accel}	Acceleration length of the solid phase (m)	254
m	Curve fit parameter (-)	61-62
\dot{m}_g	Mass flow rate of the gas phase (kg/s)	184-185
\dot{m}_s	Mass flow rate of the solid phase (kg/s)	184-185

M_f	Mass feed rate of particles (kg/s)	228-229
M_{flux}	Mass flux of particles at the target face (kg/m ² /s)	228-229
M_{sample}	Mass of total test sample (kg)	132-133
M_{sieve}	Mass retained on sieve (kg)	132-133, 261
M_y	Yield moment (Nm)	160
n	Constant (-)	238
	Coefficient to account for flow over a layer of particles (-)	249
N	Number of compression cycles (-)	43-44
N_0	Number of unbroken particles (-)	61-62
o	Output particle size distribution column matrix (-)	66
P^*	Dimensionless number (-)	43-44
P_1	Dimensionless group (-)	43-44
	Percent mass retained on the sieve in question for virgin sample (-)	132-133
P_2	Dimensionless group (-)	43-44
	Percent mass retained on the sieve in question for post-test sample (-)	132-133
P_3	Dimensionless group (-)	43-44
$P(\theta)$	Probability density function of particle impact angle (-)	288-289
P_m	Particle compressive strength (Pa)	43-44
P'_m	Particle fatigue compressive strength (Pa)	43-44
r	Radius of a circle (m)	160
r_b	Radius of pipe bend centreline (m)	286
r_p	Radius of the internal wall of a pipe bend (m)	286
	Pipe thickness (m)	288-289

R	Radius of pipe (m)	238
	Distance from pipe radius to pipe outer surface (m)	288-289
R^2	Coefficient of determination (-)	266, 293
R_b	Distance from pipe radius to pipe centreline (m)	288-289
R_e	Reynolds number of a fluid flowing in a pipe (-)	237
R_p	Particle Reynolds number (-)	246
R_t	Radius of accelerating tube (m)	228
S	Section modulus (m ³)	160
S_F	Breakage probability under specific force (-)	30-31
t_n	The cumulative mass fraction passing 1/n th of the parent particle size (-)	31
u	Fluid velocity at position of calculation (m/s)	238
u_{max}	Maximum fluid velocity in the pipe cross section (m/s)	238
U	Impact Velocity (m/s)	26
$U_{pu,calculated}$	Calculated minimum pickup velocity (m/s)	249
v_s	Velocity of the solid phase (m/s)	184-185
V	Fluid velocity (m/s)	245
V_{avg}	Average velocity of fluid in a pipe (m/s)	237
V_i	Particle impact velocity (m/s)	94
\dot{V}_g	Volumetric flow rate of the gas phase (m ³ /s)	184-185
V_m	Model velocity (m/s)	263, 272, 293
V_n	Normal component of impact velocity (m/s)	263
V_p	Particle velocity under experimental conditions (m/s)	263, 272
\dot{V}_s	Volumetric flow rate of the solid phase (m ³ /s)	184-185
V_t	Tangential component of impact velocity (m/s)	263
w_i	Fraction of material retained on a given sieve size (-)	66-67

$W_{m,min}^*$	Adjusted mass-specific threshold energy (J/kg)	30
$W_{m,eff}^*$	Mass-specific effective impact energy (J/kg)	30
x	Particle size (m)	30
X_c	Distance from the spinning disc centre to the centre of the target (m)	228
X_d	Particle flight distance (m)	228
X_h	Harmonic mean particle size (mm)	66-67
y	Distance from pipe wall (m)	238
Y	Dynamic Yield Stress (Pa)	26

Greek Symbols

α	Material characteristic (-)	31
	Percent change criterion (-)	206, 261, 272, 279, 293
β	Velocity combination ratio, $0 < \beta < 1$, (-)	263, 79
γ	Damage accumulation constant (-)	44
$\Delta\%$	Magnitude of Deviation (-)	132-133, 261
ε	Summed with the Velocity Combination Ratio, β , to form unity (-)	263, 279
θ	Particle impact angle under experimental conditions (degrees)	263, 272
	Particle impact angle under experimental conditions (radians)	288-289
θ_c	Centreline impact angle (radians)	288-289
θ_d	Particle jet dispersion angle (degrees)	228
θ_e	Exit angle of the particle stream from the spinning disc (degrees)	94
θ_m	Pipe centreline impact angle (radians)	286

θ_{max}	Maximum particle impact angle (radians)	288-289
μ	Fluid viscosity (Pa s)	237
μ_f	Fluid viscosity (kg/m s)	249
μ_θ	Mean particle impact angle (radians)	289
ν	Kinematic viscosity of the fluid (m ² /s)	255
π	The mathematical number, Pi (-)	286
ϱ	Gas density (kg/m ³)	254
ϱ_p	Particle density (kg/m ³)	254
ρ	Density (kg/m ³)	26
	Density of the fluid (kg/m ³)	237, 245, 249
ρ_f	Fluid density (kg/m ³)	255
ρ_p	Particle density (kg/m ³)	255
ρ_s	Density of the solid phase (kg/m ³)	184-185
σ^*	Dimensionless number (-)	43-44
σ_y	Yield stress (N/m ²)	160
φ	Sphericity (-)	249
ω_d	Rotational velocity of the spinning disc (RPM)	94

GLOSSARY OF TERMS

Term	Meaning	Page Reference
BSPAT	Bench Scale Particle Attrition Tester	95
ECT	Electrical Capacitance Tomography	16
ID	Internal diameter	104
LSPAT	Large Scale Particle Attrition Tester	100
Magnitude of Deviation	The algebraic difference between the percent mass retained on a given size fraction before and after an attrition test. Positive values indicate material has entered the size fraction; negative values indicate material has left the size fraction.	132-133
MVR	Mass Volume Ratio (Particle concentration on a mass/volume basis)	184-185
NB	Nominal Bore	111
NPS	Nominal Pipe Size	104
OD	Outer diameter	104
PEPT	Positron Emission Particle Tracking	18
PIV	Particle Image Velocimetry	17
PP	Pilot Plant	131
PVC	Polyvinyl Chloride	104
r/D	Bend radius over pipe diameter ratio	14-15
SBAT	Single Bend Attrition Tester	103
SLR	Solids Loading Ratio (Particle concentration on a mass/mass basis)	184-185

SVR	Spatial Volumetric Ratio (Particle concentration on a volume/absolute volume basis)	184-185
UFLC	Ultrafast Load Cell	44
VLR	Volumetric Loading Ratio (Particle concentration on a volume/volume basis)	184-185

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APPENDIX A: List of Publications

This chapter details the dissemination of the findings of the present research. Items are presented chronologically by class.

A.1 International Journal Articles

1. B.A. Kotzur, M.S.A. Bradley, R.J. Berry, R.J. Farnish, Breakage Characteristics of Granulated Food Products for Prediction of Attrition during Lean-Phase Pneumatic Conveying, *Int. J. Food Eng.* 12 (2016) 835–850.

Breakage Characteristics of Granulated Food Products for Prediction of Attrition during Lean-Phase Pneumatic Conveying

Pneumatic conveying is utilised in a variety of industries to convey food products exhibiting diverse handling characteristics. Attrition of particles caused by this conveying process can result in a number of undesirable outcomes such as loss in product quality or issues in subsequent handling processes. The ability to predict the breakage behaviour of particulate materials is desirable in both new system design and resolving issues in existing plants. This work considers two different particulate materials (Salt and Golden Breadcrumbs) across a range of particle sizes, and quantifies their breakage behaviour under varying impact conditions. Narrow size fractions of each material was degraded; material retained on 250 μm and 355 μm sieves for salt, and 500 μm , 710 μm and 1000 μm sieves for Golden Breadcrumbs. Velocity was found to be the most influential factor with respect to particle attrition. The results from the narrow size fraction tests were superimposed to form a simulated full size distribution breakage behaviour, which was then compared to the experimentally determined behaviour. A good agreement was found, however the proportion of material predicted for size fractions smaller than 355 μm for Golden Breadcrumbs and 180 μm for Salt was under-predicted. Recommendations for increasing accuracy of the prediction method are given.

A.2 Journal Articles Communicated for Publication

2. B. A. Kotzur, R. J. Berry, M. S. A. Bradley, Particle Attrition Mechanisms, their Characterisation, and Application to Horizontal Lean Phase Pneumatic Conveying Systems: A Review, Communicated for publication in *Powder Technology*, Elsevier.
3. B. A. Kotzur, R. J. Berry, M. S. A. Bradley, The Influence of Solids Concentration and Slip Velocity on Particle Attrition in Lean Phase Pneumatic Conveying, Communicated for publication in *Powder Technology*, Elsevier.
4. B. A. Kotzur, R. J. Berry, M. S. A. Bradley, Comparison of Breakage Behaviour Obtained from Two Unique Bench Scale Centrifugal Attrition Testers, Communicated for publication in *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, Sage Journals.

Particle Attrition Mechanisms, their Characterisation, and Application to Horizontal Lean Phase Pneumatic Conveying Systems: A Review

Understanding particle attrition is vital to the optimisation of a wide range of industrial processes. Lean phase pneumatic conveying is one such process, whereby the high energy particle impacts can cause undesirable loss in product quality or change in bulk behaviour. The attrition process is resolved into a material function and a process function; the combination of these functions dictate the attrition mechanism present, and the magnitude of failure observed. Subsequently, the forces applied to the particles are examined within the context of lean phase pneumatic conveying. Finally, empirical and numerical models are reviewed along with comments on experimental method.

To summarise some of the findings of this review: the requirement of standardised test equipment is recognised in order to compare the wide variety of particulate materials under comparable loading conditions; stronger correlation between the results obtained from different particle attrition test methods is required; and finally, seldom are the manufacturing conditions (where applicable) linked to the particulate attrition behaviour.

The Influence of Solids Concentration and Slip Velocity on Particle Attrition in Lean Phase Pneumatic Conveying

A single-bend pneumatic conveying system was used to investigate particle attrition with respect to variations in particle concentration, particle velocity and bend radius. The material used for the experimental work was Carbolux SK (Acetylene Coke). Through mapping out the particle attrition across all conditions, it was concluded that particle concentration had negligible influence on the attrition measured. Reduction in bend radius, and increase in particle velocity resulted in increased attrition as expected. Slip velocity was found to increase with increasing particle diameter, and increase linearly with increasing superficial air velocity. To prevent over-prediction of particle attrition when characterised by particle impact testers, correlation to particle (not superficial air) velocity in the simulated conveyor is critical. Previous works citing 'particle shielding' could potentially be explained through the exaggerated particle velocity profile across the pipeline cross-section for industrially-sized pipe diameters and high particle concentrations.

Comparison of Breakage Behaviour Obtained from Two Unique Bench Scale Centrifugal Attrition Testers

Two bench scale centrifugal accelerator style particle attrition testers (QPM and BAST) are compared using four size fractions of Carbolux, a granulate material composed of >99% carbon. Testing conditions were varied across impact velocity (15-35 m/s) and impact angle (30-90 degrees) in a full factorial programme. It was found that the QPM inflicts greater particle damage than the BSAT in all loading cases. This was attributed to the propensity for secondary and tertiary impacts within the impact chamber. This was especially applicable to the QPM data, when 30 degree impacts inflicted greater particle damage than 90 degree impacts under the impact velocity. The BSAT data behaved as expected and in agreement with the literature. These findings call for further characterisation of particle testing equipment – specifically those addressing multi-particle behaviours. It is noted that any empirical or semi-empirical models derived from testing on such apparatuses will be specific to the apparatus under scrutiny.

A.3 Conference Papers

5. B.A. Kotzur, M.S. Bradley, R.J. Berry, R.J. Farnish, Comparison of relative particle breakage levels for large and small scale centrifugal attrition testers, in: CHoPS 2015 - 8th Int. Conf. Conveying Handl. Part. Solids, 2015.
6. R.J. Farnish, M. Ferreira, B. Kotzur, R.J. Berry, Particle breakage behaviour at simulated pneumatic conveying impact conditions using a bench scale tester, in: CHoPS 2015 - 8th Int. Conf. Conveying Handl. Part. Solids, 2015.
7. B.A. Kotzur, M.S.A. Bradley, R.J. Berry, R.J. Farnish, Breakage matrix comparison of granulated food products for prediction of attrition during lean-phase pneumatic conveying, in: Int. Food Oper. Process. Simul. Work. FoodOPS 2015, 2015.
8. B. Kotzur, M.S. Bradley, R.J. Berry, R.J. Farnish, Influence of Solids Loading Ratio on Particle Attrition within a New Centrifugal Accelerator Impact Tester, in: PARTEC Int. Congr. Part. Technol., 2016.
9. B.A. Kotzur, R.J. Berry, M.S.A. Bradley, R.J. Farnish, Investigation into breakage of amorphous and crystalline particles within a centrifugal impact tester, in: ICBMH 2016 - 12th Int. Conf. Bulk Mater. Storage, Handl. Transp. Proc., 2016.
10. B.A. Kotzur, R.J. Berry, M.S.A. Bradley, R.J. Farnish, Quantifying the influence of secondary impacts within centrifugal impact testers, in: ICBMH 2016 - 12th Int. Conf. Bulk Mater. Storage, Handl. Transp. Proc., 2016.
11. B.A. Kotzur, R.J. Berry, M.S.A. Bradley, G.C. Dias, A.C.M.S.E. De Silva, Influence of pellet length on breakage by impact, in: ICBMH 2016 - 12th Int. Conf. Bulk Mater. Storage, Handl. Transp. Proc., 2016.

Comparison of Relative Particle Breakage Levels for Large and Small Scale Centrifugal Attrition Testers

A centrifugal accelerator tester has been used in previous reported research to predict the degradation generated within a nominal pneumatic conveying system. This research had delivered some useful trends, however to date, the influence of the physical size of centrifugal accelerator proportions on the levels of degradation generated has been largely neglected in many works. This paper will therefore analyse the degradation data obtained from two scales of centrifugal accelerator degradation tester under comparable operating conditions. The testers were benchmarked over three different impact velocities. Key differences in breakage behaviour are discussed in relation to the dimensional influences of the equipment.

Particle Breakage Behaviour at Simulated Pneumatic Conveying Impact Conditions Using a Bench Scale Tester

The phenomenon of particle attrition for materials transferred in bulk through positive or negative pressure pneumatic conveying systems can result in major problems for industry. Issues related to an increase in fines generated through this type of handling step can include adverse changes in handleability, dispersion, visual appearance, caking behaviour and general dustiness. The prediction of likely levels of particle attrition can provide a very useful tool at the formulation stage (to predict potential problems at scale-up from pilot trials) and for trouble shooting process issues such as intermittent discharge, segregation and agglomeration. In order to provide predictions of likely particle breakage rates laboratory equipment has been developed by The Wolfson Centre for Bulk Solids Handling Technology to examine the breakage characteristics of bulk particulates. This paper will report upon work undertaken to investigate the effects of impact velocity on the levels of degradation measured over a range of test conditions.

Breakage Matrix Comparison of Granulated Food Products for Prediction of Attrition During Lean-Phase Pneumatic Conveying

Pneumatic conveying is widely used in the production and handling processes of many food products. These food products can take the form of powders or flake type bulk materials, including items such as tea leaves, granulated sugar, flour, and flavorings. Fulfilment of the many benefits of pneumatic conveying can only be realised if the system is correctly configured and operated optimally. In instances where this is not the case, a common repercussion is bulk material attrition. The final result can often be the generation of excess quantities of fines or dust. This excess can have significant implications for the reliability of subsequent process operations or customer perception. The research presented in this document will provide a comparative breakage analysis of a limited range of food products. This information may then be used to determine, with a greater degree of confidence, the magnitude of anticipated attrition when pneumatically conveying particulate products.

Influence of Solids Loading Ratio on Particle Attrition within a New Centrifugal Accelerator Impact Tester

Lean-phase pneumatic conveying is widely used throughout industry to convey a range of different particulate materials. One issue often observed in this conveying method is product degradation through particle size reduction leading to a number of handling and quality control issues.

A bespoke centrifugal attrition tester was designed, built and commissioned. An initial programme of work was completed with a focus on identifying the effect of mass feed rate of the sample into the accelerating disc, hence controlling the particle concentration at the target surface. It was found that particle concentration has a small, but noticeable effect at low impact velocity; however it was not observed at high impact velocity. It was proposed that at the high impact velocity tested, the critical impact energy for attrition was exceeded beyond the influence of particle concentration.

Plans for further work include developing a detailed understanding of the relationship between feed rate, impact velocity, and attrition rate. There is the potential to generate a boundary curve from which the particle concentration ceases to noticeably influence the rate of attrition for a given impact velocity. Additionally, only an impact angle of 45 degrees was used throughout the course of this research. It is necessary to understand the influence of this variable also.

Investigation into Breakage of Amorphous and Crystalline Particles within a Centrifugal Impact Tester

Particle attrition within lean phase pneumatic conveying systems can result in potentially detrimental effects on subsequent handling processes and product quality. Such consequences may be an increased particle surface area to volume ratio leading to unpredicted reaction rates, and an increase in the proportion of fine particles inhibiting material flow through hoppers. It is therefore highly valuable to be able to predict particle attrition behaviour for any material through a given pneumatic conveying system. This work examines the attrition behaviour of two materials, one amorphous (Carbolux) and one crystalline (Cooking Salt), within a bench-scale centrifugal attrition tester. Two impact angles are compared across five impact velocities for each material. A single particle size fraction was scrutinised for each material across all test conditions, and it was found that the percentage mass retained reduced linearly with velocity for the amorphous material, and polymerically for the crystalline material.

Quantifying the Influence of Secondary Impacts within Centrifugal Impact Testers

Centrifugal impact testers have been previously used in order to test the attrition behaviour of particulate material for prediction of attrition in lean phase pneumatic conveying systems. Whilst this form of attrition testing provides close control of impact velocity and impact angle, the quantification of attrition due to secondary impacts within the apparatus has remained unaddressed. In this work, Carbolux is attrited across two impact angles (90 and 20 degrees) and five impact velocities. All conditions were tested both with and without the application of a foam lining to the outermost wall of the impact chamber where secondary impacts were expected to occur. It was found that the foam lining had negligible impact when tested with a 90 degree impact angle. For an impact angle of 20 degrees, the lining had a significant effect that was found to increase linearly with increasing impact velocity.

Influence of Pellet Length on Breakage by Impact

Pelletised materials are commonly used across a wide range of industries as a means of more efficiently storing and handling particulate materials. This work investigates the attrition behaviour of wood pellets with regard to pellet length, pellet forming method, and impact velocity. Sample sizes of 100 pellets were pre-measured and degraded under carefully controlled conditions. The post-test sample was then manually analysed to determine the length of all child particles. The results demonstrated that thermally treated pellets were more durable than white pellets. For both pellet types, the degree of breakage increased with; particle length and impact velocity

A.4 Papers Published in Periodicals

- 12.B.A. Kotzur, R.J. Berry, M.S.A. Bradley, R.J. Farnish, Breakage of Powders in Lean-Phase Pneumatic Conveying: The Influence of Material Type, *Bulk Solids Handl.* (2017) 52–57.

Breakage of Powders in Lean-Phase Pneumatic Conveying: The Influence of Material Type

Lean-phase pneumatic conveying is utilised across a wide range of industrial processes. This conveying method offers a number of advantages such as process hygiene and routing flexibility, however, due to high impact velocities in the pipeline, particle attrition remains a considerable issue. This work looks at how different material types respond to equivalent impact conditions, namely amorphous (Carbolux) and crystalline (cooking salt) morphologies, and translates this to expected behaviour during conveying. A bespoke bench-scale centrifugal attrition tester was used to test an individual particle size fraction of each material across two impact angles and five impact velocities. It was found that the percentage mass retained in the size fraction reduced linearly with velocity for the amorphous material, and polymerically for the crystalline material.

A.5 Oral Presentations

13. What is a Bulk Material?, Presented in *Medway Postgraduate Research Café*, Universities at Medway, Chatham Maritime, 15th May 2015.
14. Understanding Particle Attrition Behaviour in Lean Phase Pneumatic Conveying Systems, Presented in *Pneumatic Conveying*, Institution of Mechanical Engineers, London, 29th November 2016.

A.6 Poster presentations

15. Medway Research Festival 2014, Predicting Degradation of Bulk Materials During Lean Phase Pneumatic Conveying
16. Powder Flow 2015, A Critical Overview of Particle Attrition Testers
17. 3rd Faculty Research Symposium 2015, University of Greenwich Faculty of Engineering and Science, Attrition of Crystalline and Amorphous Bulk Materials within a Centrifugal Attrition Tester

APPENDIX B: Bench Scale Particle Attrition Tester Design Drawings

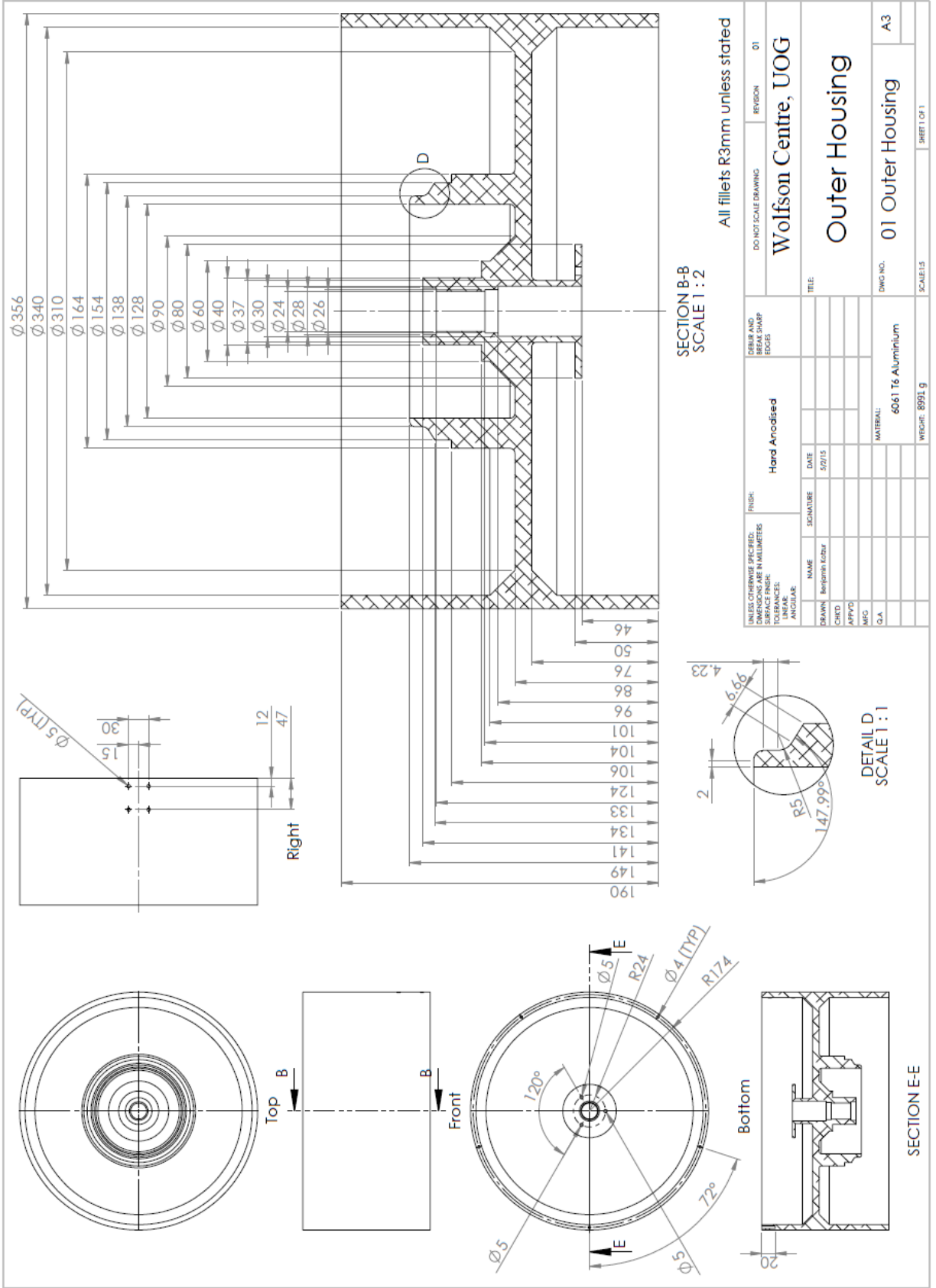
This appendix contains all of the engineering drawings required to construct the BSPAT. Table B-1 gives the reference number and the drawing title for each of the technical specifications contained within this appendix.

Note: Drawings are not to scale. Please request digital originals for scaled drawings.

Table B-1: Reference list for each of the BSPAT technical drawings

Drawing	Name
01	Outer Housing
02	Dust Plate
03	Lid
04	Base Plate
05	Labyrinth
06	Funnel
07	Transmission Shaft
08	Accelerating Disc Bottom
09	Accelerating Disc Top
10	Push Coupling
11	Acceleration Tube
12	Mechanical Splitter Lower
13	Mechanical Splitter Upper
14	Lid Handle
15	Feeder Stand
16	Feeder Bush Small
17	Feeder Bush Large
18	Feeder Base
19	Screw Case
20	Screw Cap Small
21	Screw Cap Large
22	Hopper
23	Target Ring 45 Deg

24	Target 45 Deg
25	Screw Final Design
26	Target 20 Deg
27	Target Ring 20 Deg
28	Target 30 Deg
29	Target Ring 30 Deg
30	Target 90 Deg
31	Target Ring 90 Deg
32	Target 20 Deg Flat
33	Target 30 Deg Flat
34	Target 45 Deg Flat
35	Assembly Feeder 2 Centre Distances



All fillets R3mm unless stated

SECTION B-B
SCALE 1:2

DETAIL D
SCALE 1:1

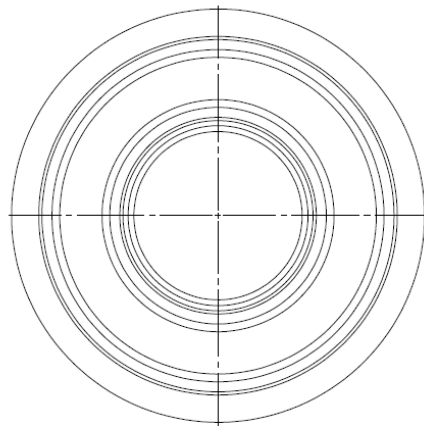
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DESIGN AND CONSTRUCTION REQUIREMENTS		Hand Anodised	
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DRAWN	NAME		
CHKD	Benjamin Eobur		
APPVD			
MFG			
Q.A.			
MATERIAL:		6061 T6 Aluminium	
DWG NO.:		01 Outer Housing	
SCALE:		A3	
WEIGHT:		8991 g	
SHEET:		1 OF 1	

Wolfson Centre, UOG

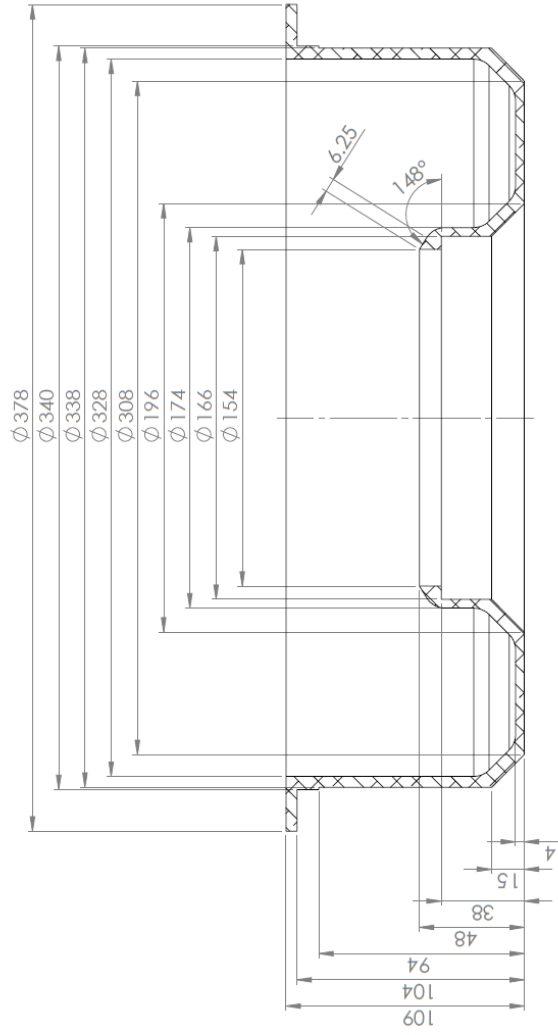
Outer Housing

01 Outer Housing

A3



Top



SECTION B-B
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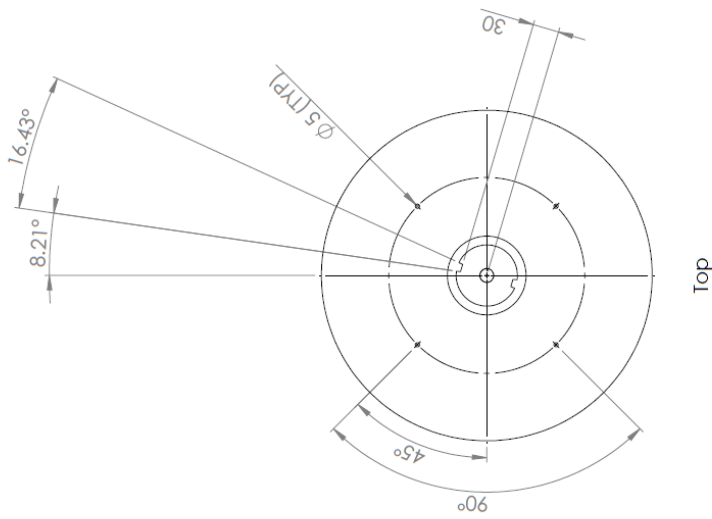
All fillets radius 10mm

B

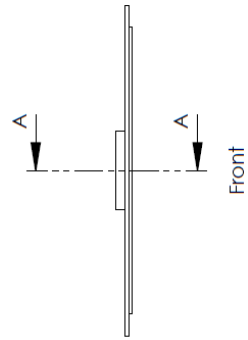


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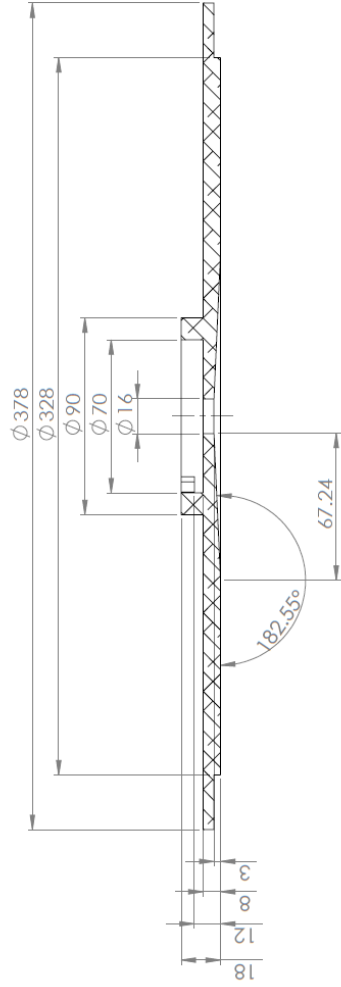
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APP'D:				DNG NO.		02 Dust plate		
MFG:				MATERIAL		A3		
QA:				6061 T6 Aluminium		SCALE: 1:4		
				WEIGHT: 880g Pkg		SHEET 1 OF 1		



Top

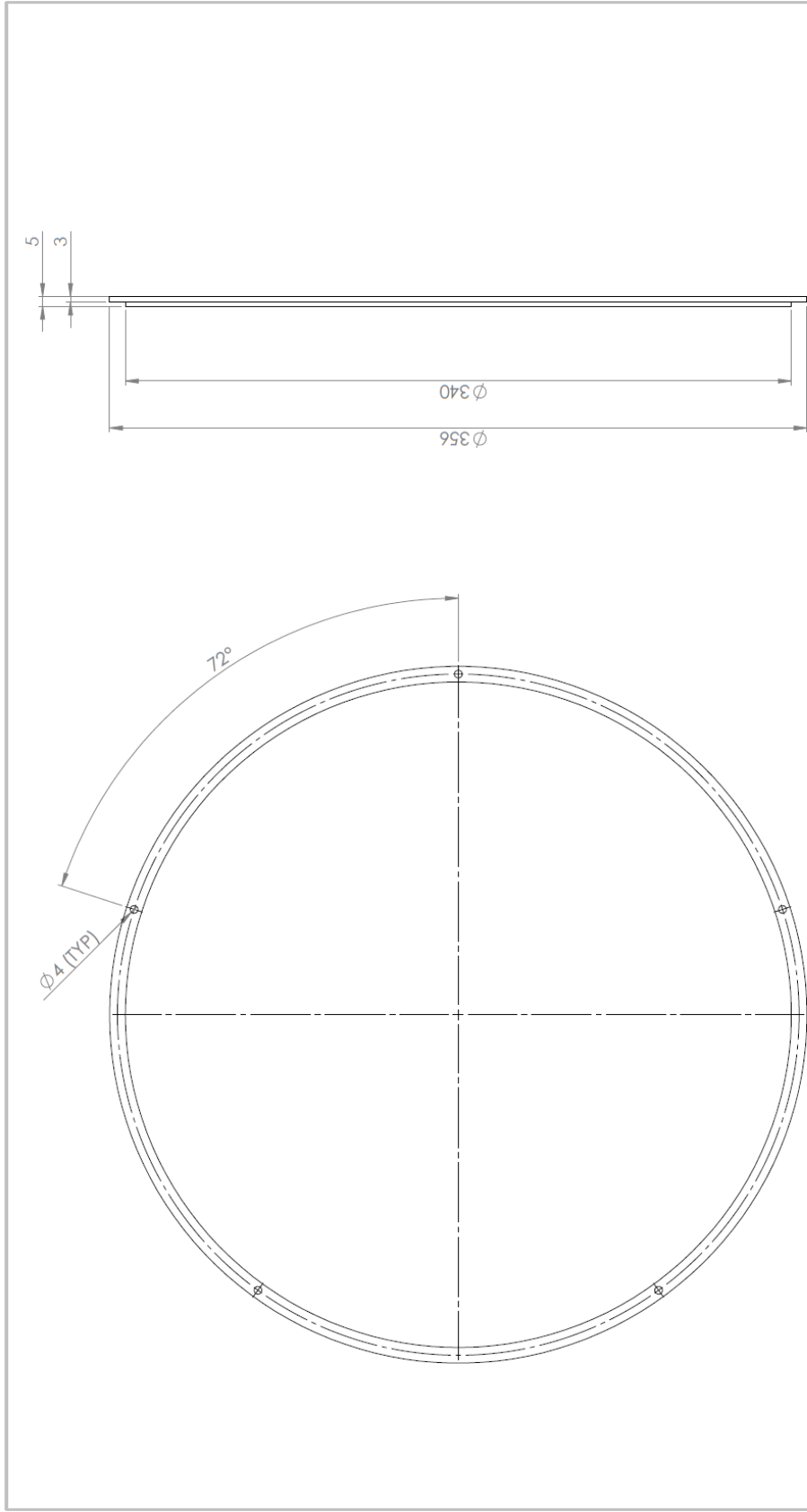


Front



SECTION A-A
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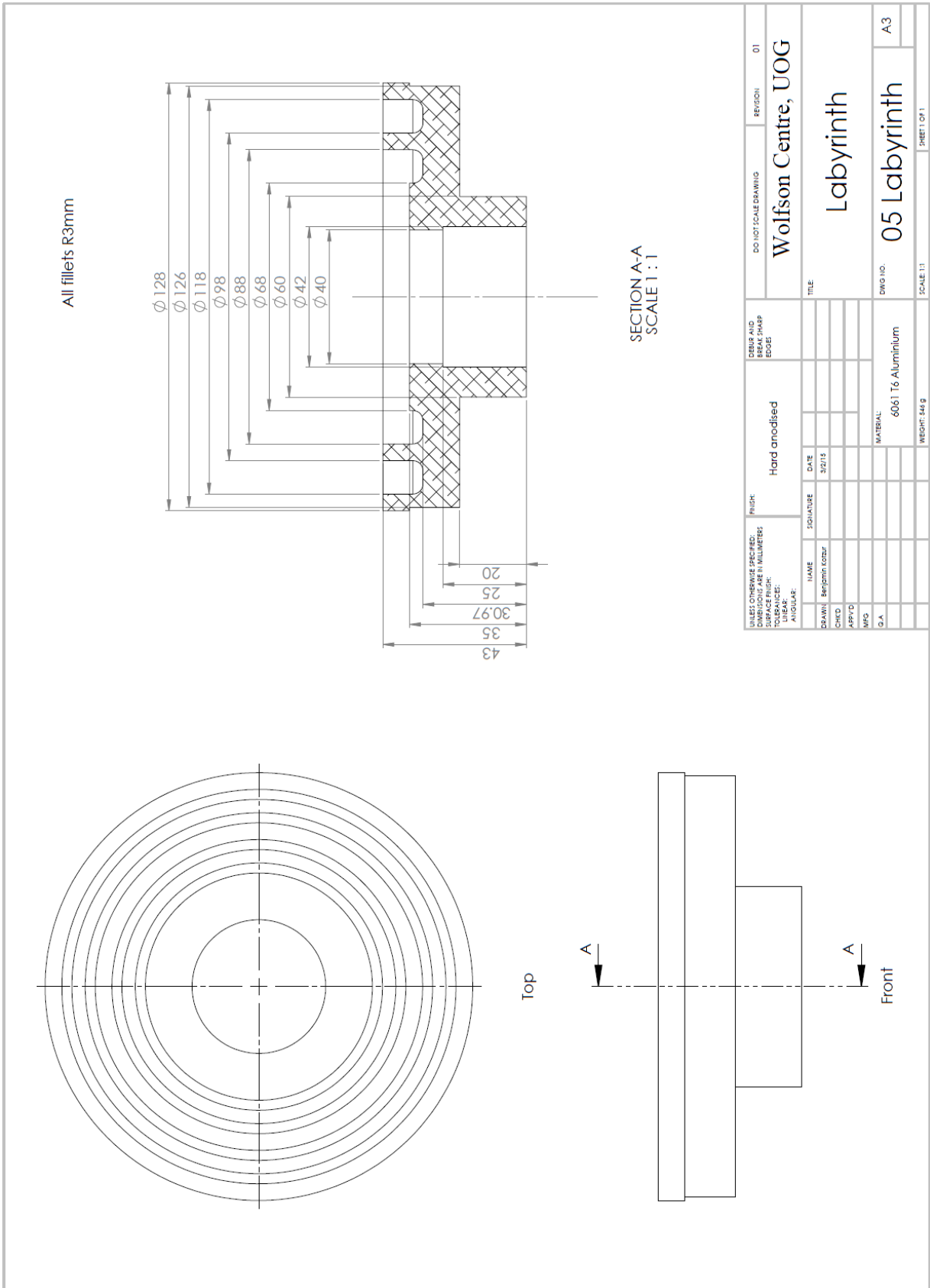
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CHECK:		18/2/13				Wolfson Centre, UOG		
APPROVED:						Lid		
MFG:						DWG NO. 03 Lid		
QA:						SCALE: 1:3		
				MATERIAL: 6061 T6 Aluminium		SHEET 1 OF 1		
				WEIGHT: 2211 g		A3		



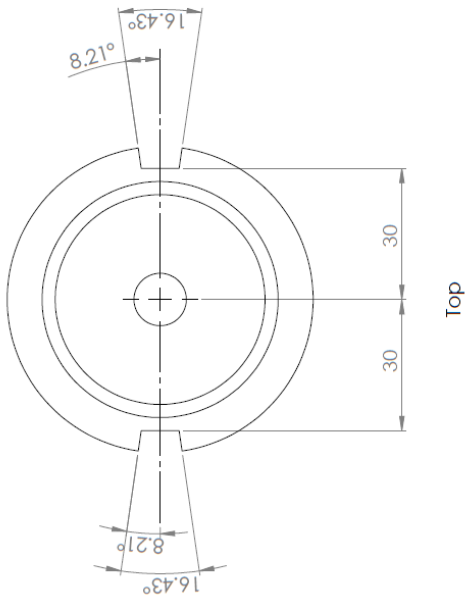
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CHECKED	Benjamin LOBY		6/2/15	Base Plate				
APPROVED				04 Base Plate				
WFO				A3				
Q.A.				6061 T6 Aluminium				
				MATERIAL		SCALE: 1:1		
				WEIGHT: 130 g		SHEET 1 OF 1		

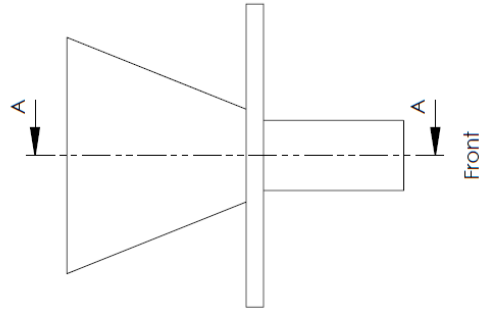
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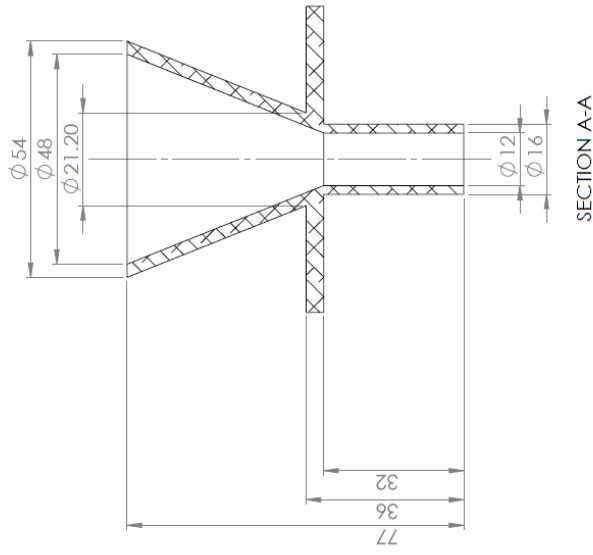
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NAME	SIGNATURE	DATE	TITLE					
DRAWN: Benjamin GORUP			Wolfson Centre, UOG					
CHECK:			Labyrinth					
APP'D:			DWG NO. 05 Labyrinth					
MTO:			SCALE: 1:1					
Q.A.			SHEET 1 OF 1					
MATERIAL: 6061 T6 Aluminium			A3					
WEIGHT: 544 g								



Top

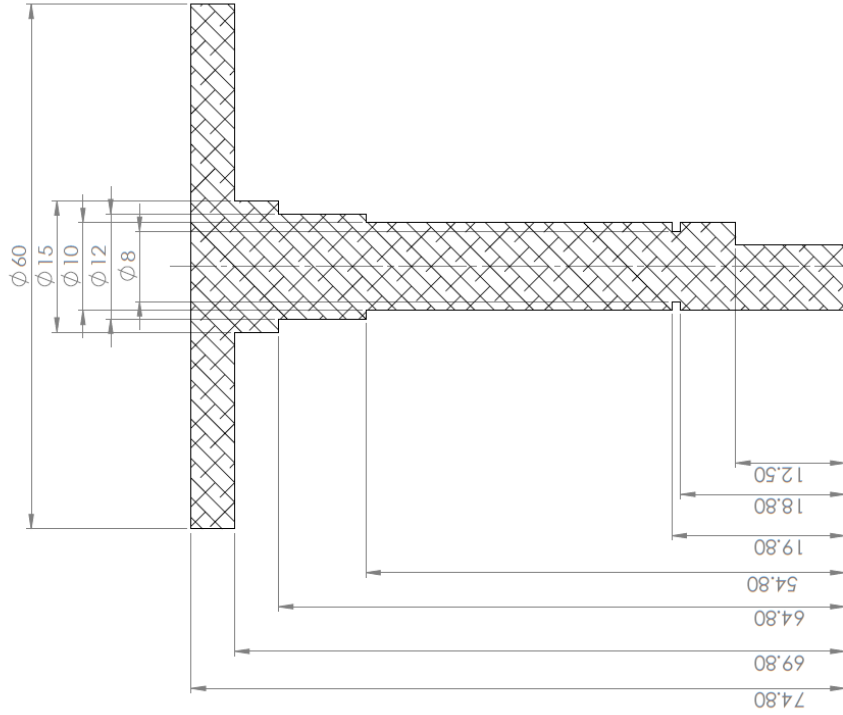
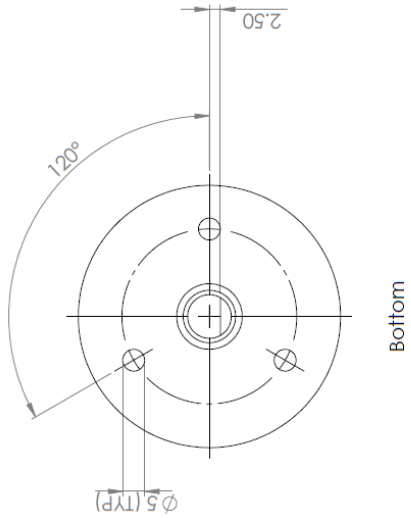
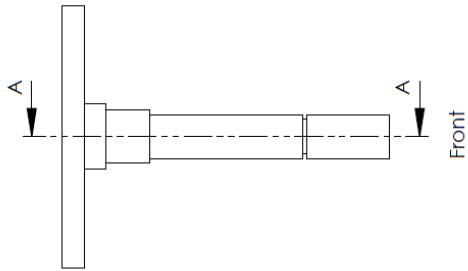


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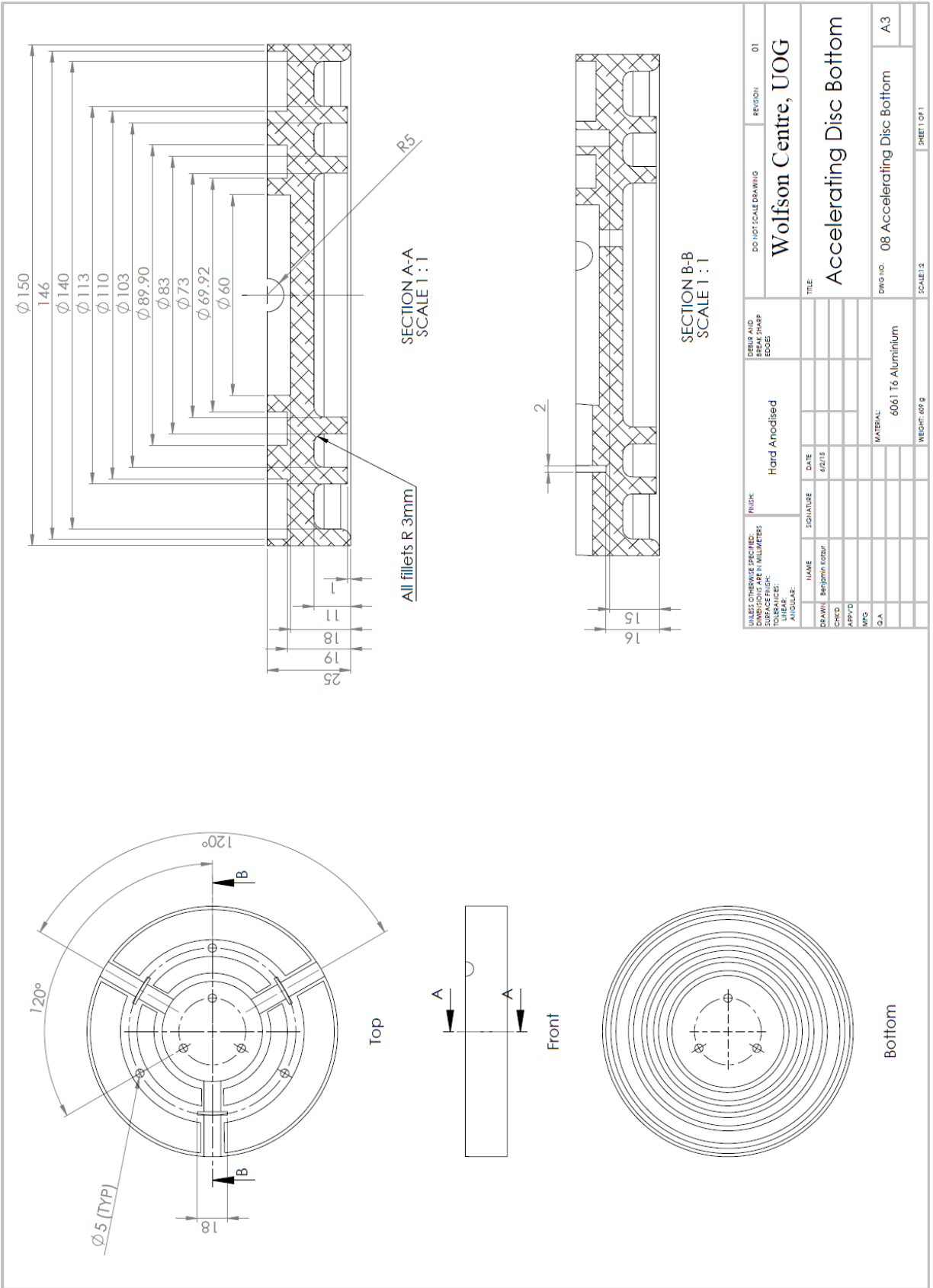
SECTION A-A

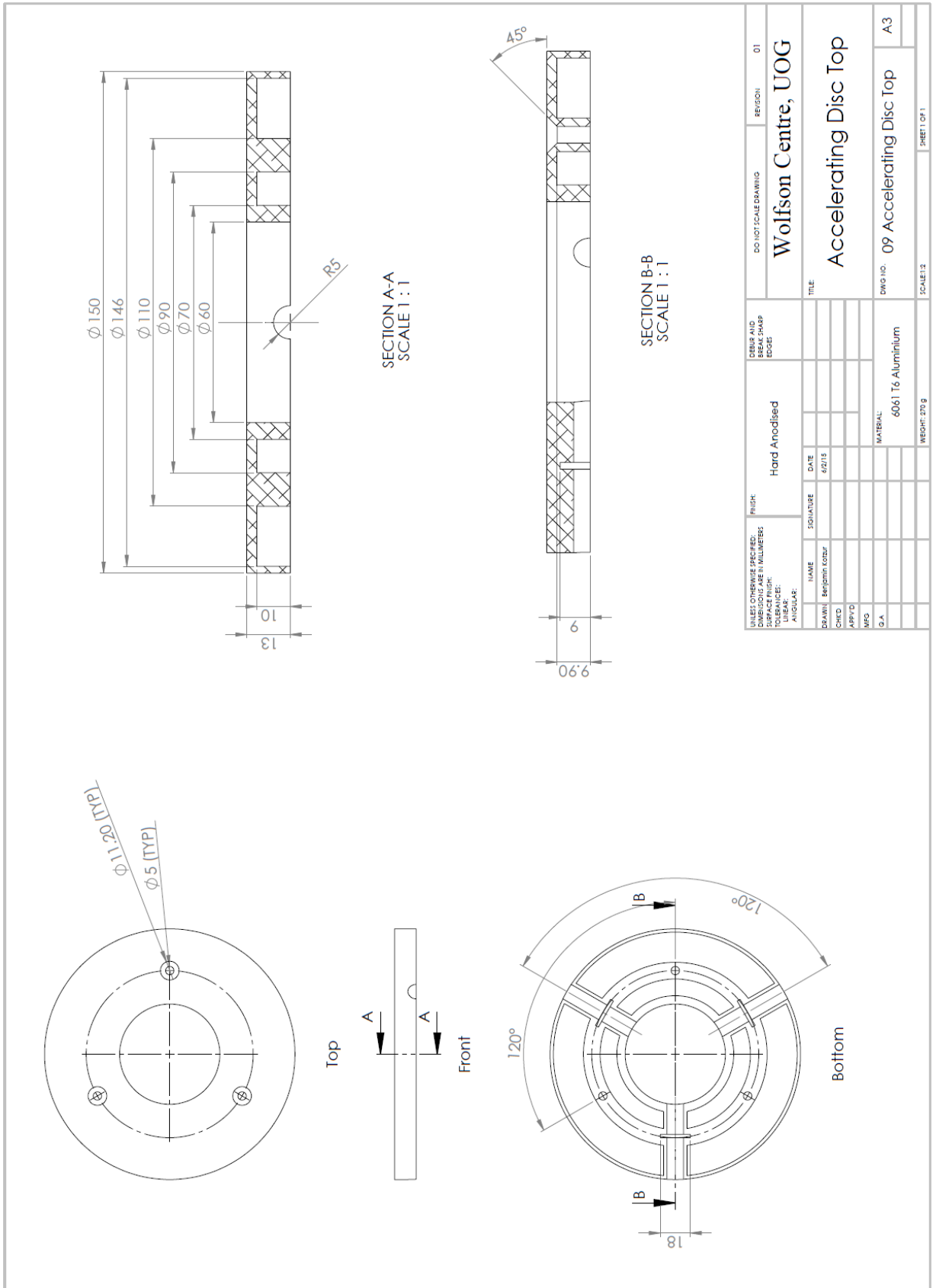
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CHKD:	Benjamin Kotz		3/2/15	Wolfson Centre, UOG				
APP'D:				Funnel				
MFG:				Dwg No. 06 Funnel				
QA:				A3				
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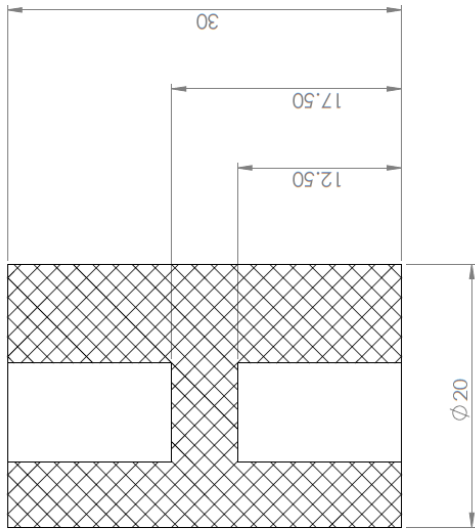
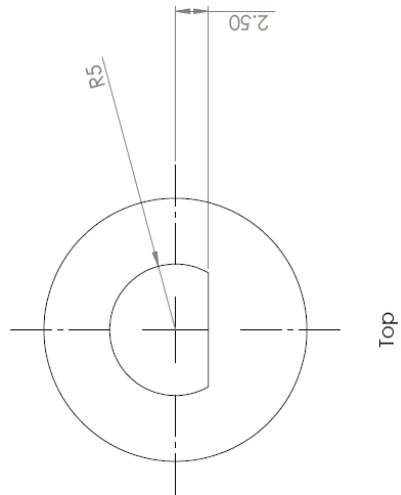
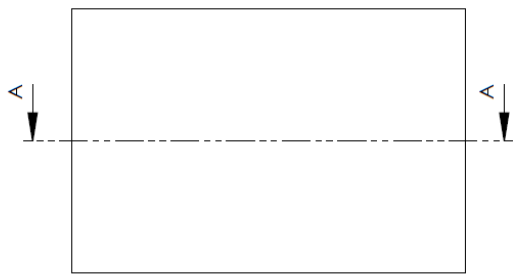


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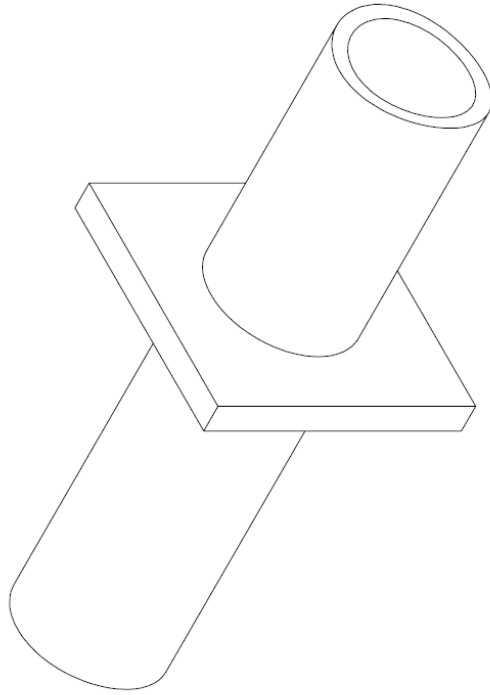
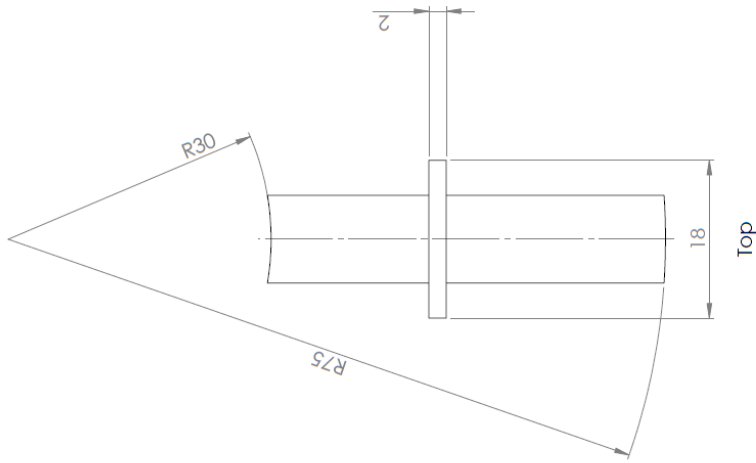
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CHKD:		DATE		3/2/15		DWG NO. 07 Transmission Shaft		
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MFG:		WEIGHT: 55 g				SCALE: 1:1		
G.A:						SHEET 1 OF 1		







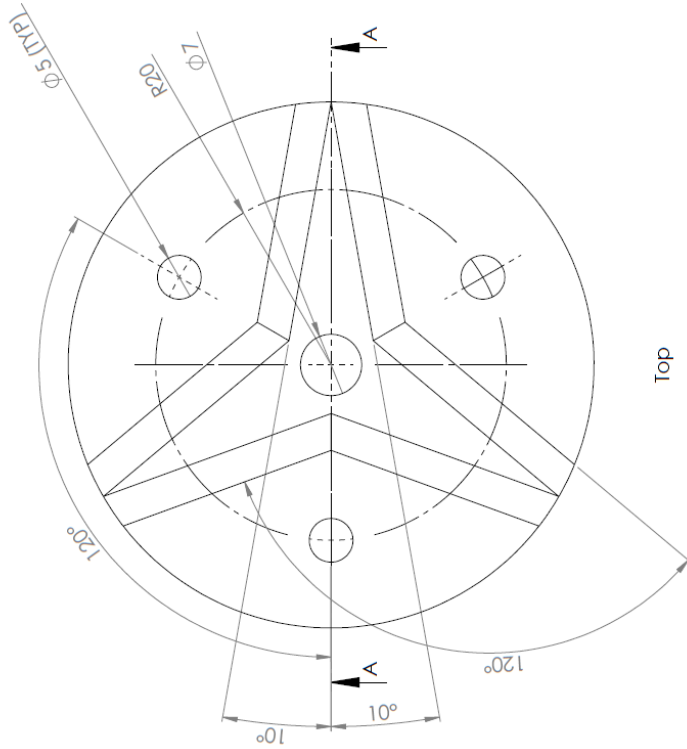
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CHK'D:	DATE	DATE		Push Coupling		Wolfson Centre, UOG	
APP'D:	SIZE	SIZE		10 Push coupling		A3	
MFG:				DWG. NO.		SCALE: 1	
G.A.				MATERIAL:		SHEET 1 OF 1	
				Polyethylene High Density			
				WEIGHT: 7.9			



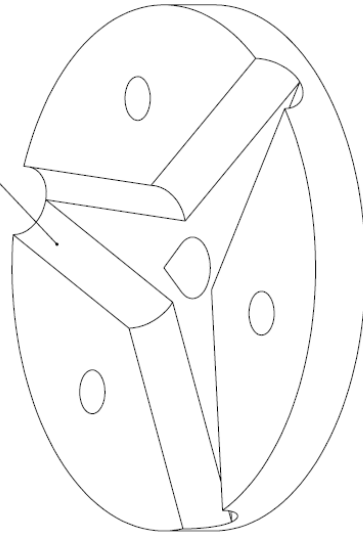
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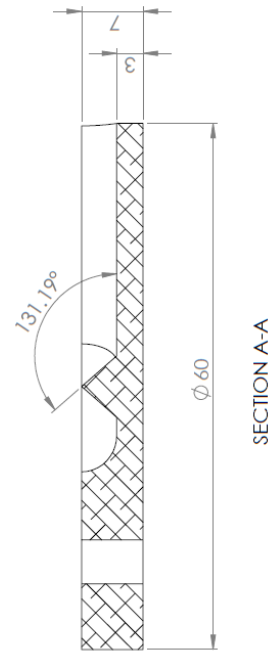
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CHKD:			Acceleration Tube					
APP'D:			DWG NO. 11 Acceleration Tube					
MFG:			A3					
G.A.			MATERIAL: 304 Stainless Steel					
			WEIGHT: 1.4 g					
			SCALE: 1:1					
			SHEET 1 OF 1					



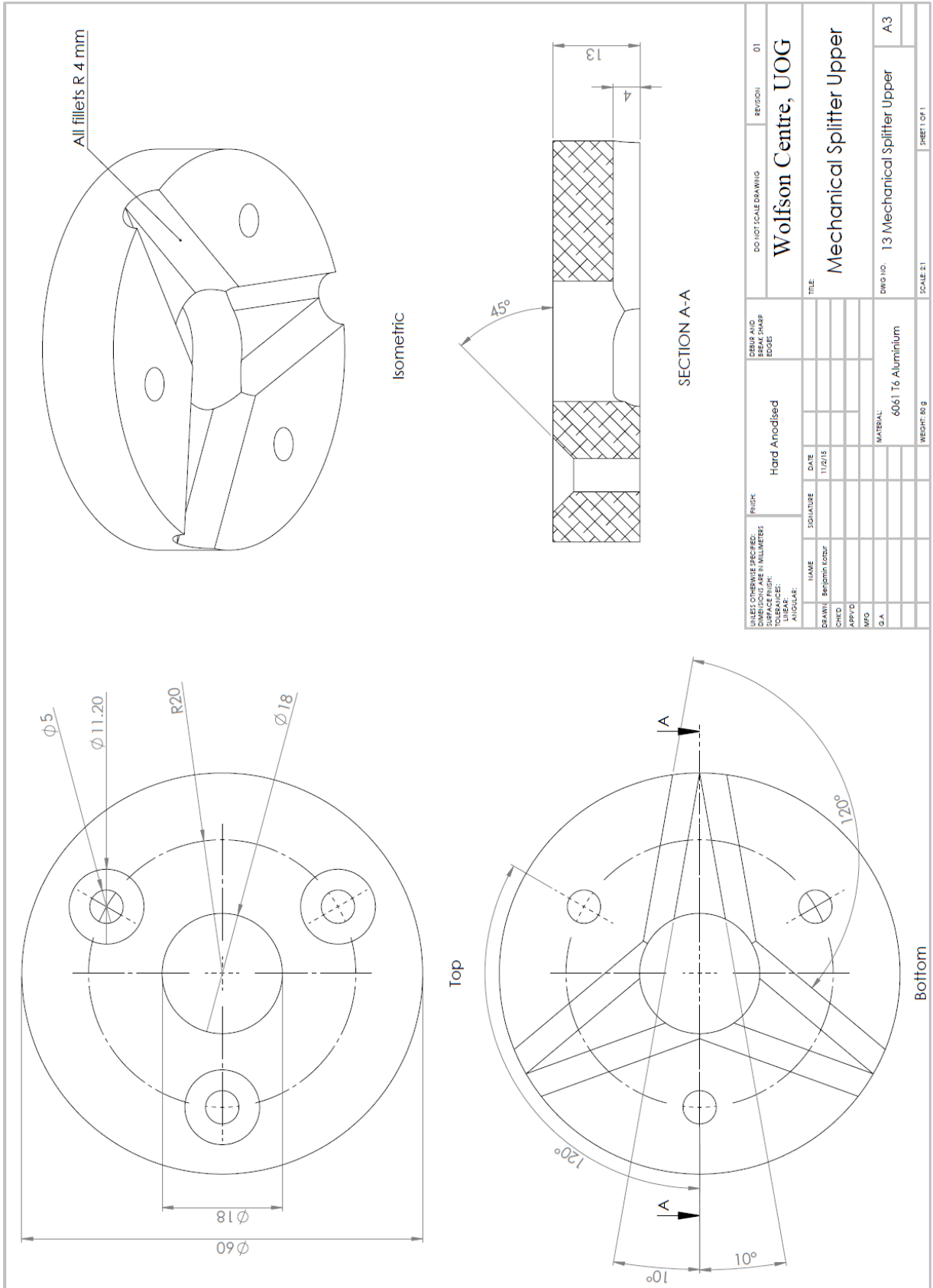
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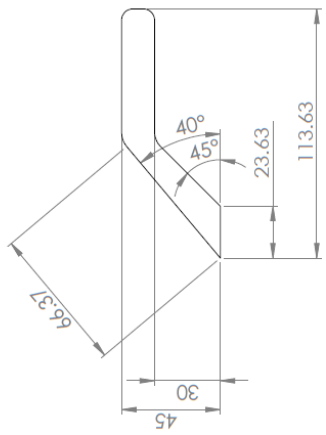


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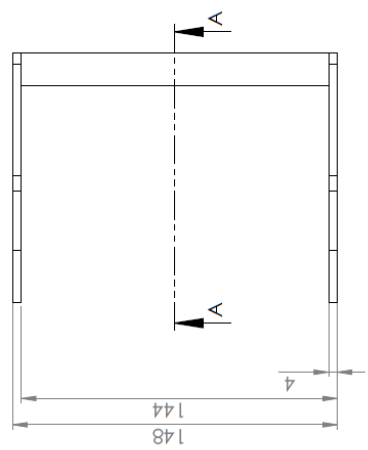


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DRAWN: Benjamin Kotzur		SIGNATURE	DATE	TITLE	
CHKD:	APPRVD:		11/21/15	Wolfson Centre, UOG	
MFG:	G.A.			Mechanical Splitter Lower	
				DWG NO:	12 Mechanical Splitter Lower
				MATERIAL:	6061 T6 Aluminium
				WEIGHT:	46 g
				SCALE:	2:1
					SHEET 1 OF 1

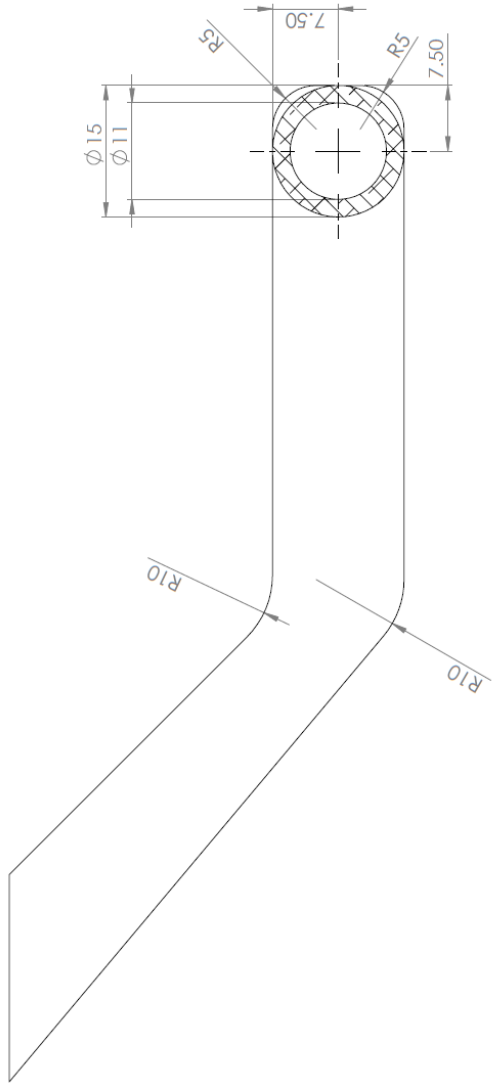




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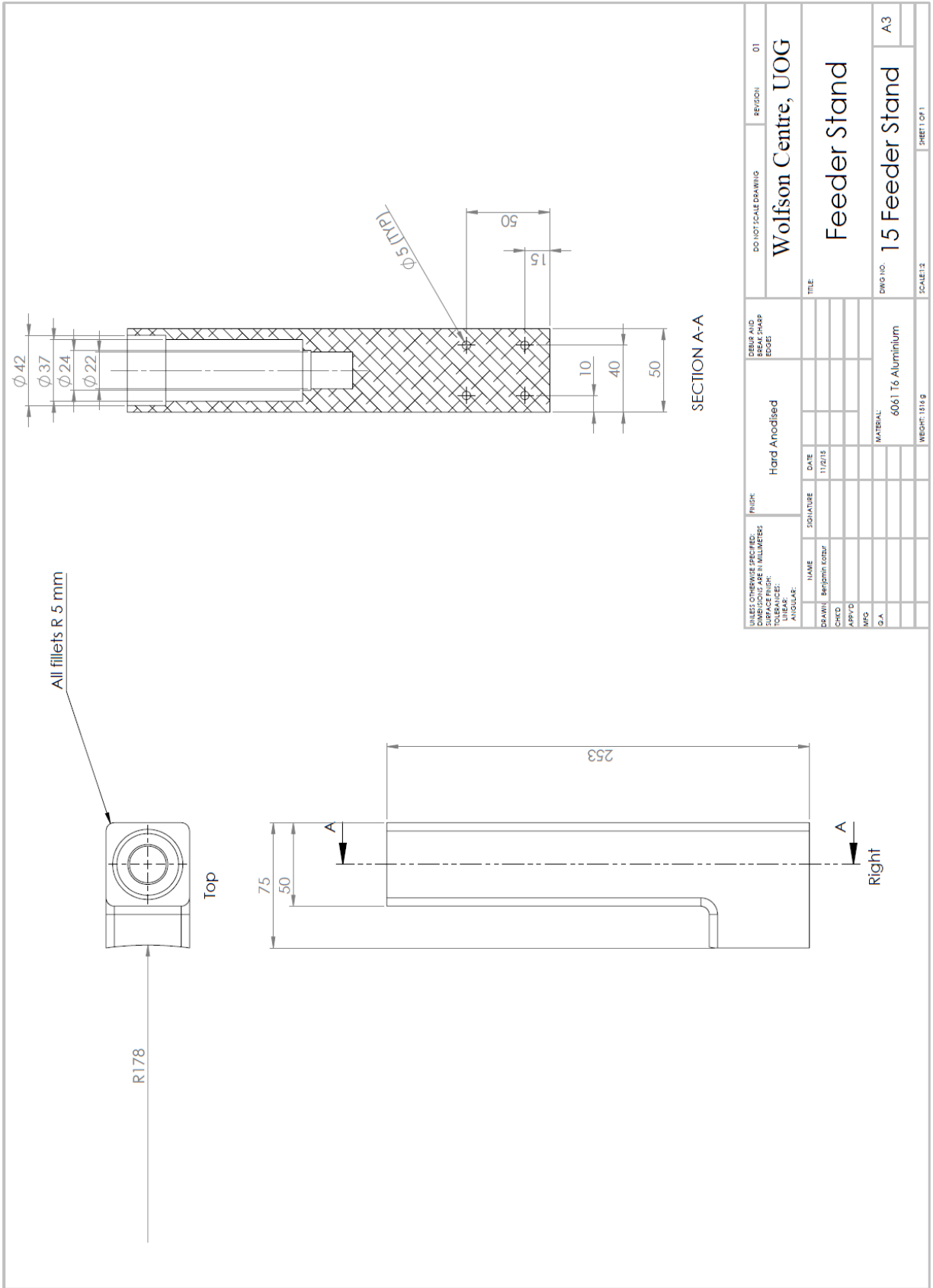


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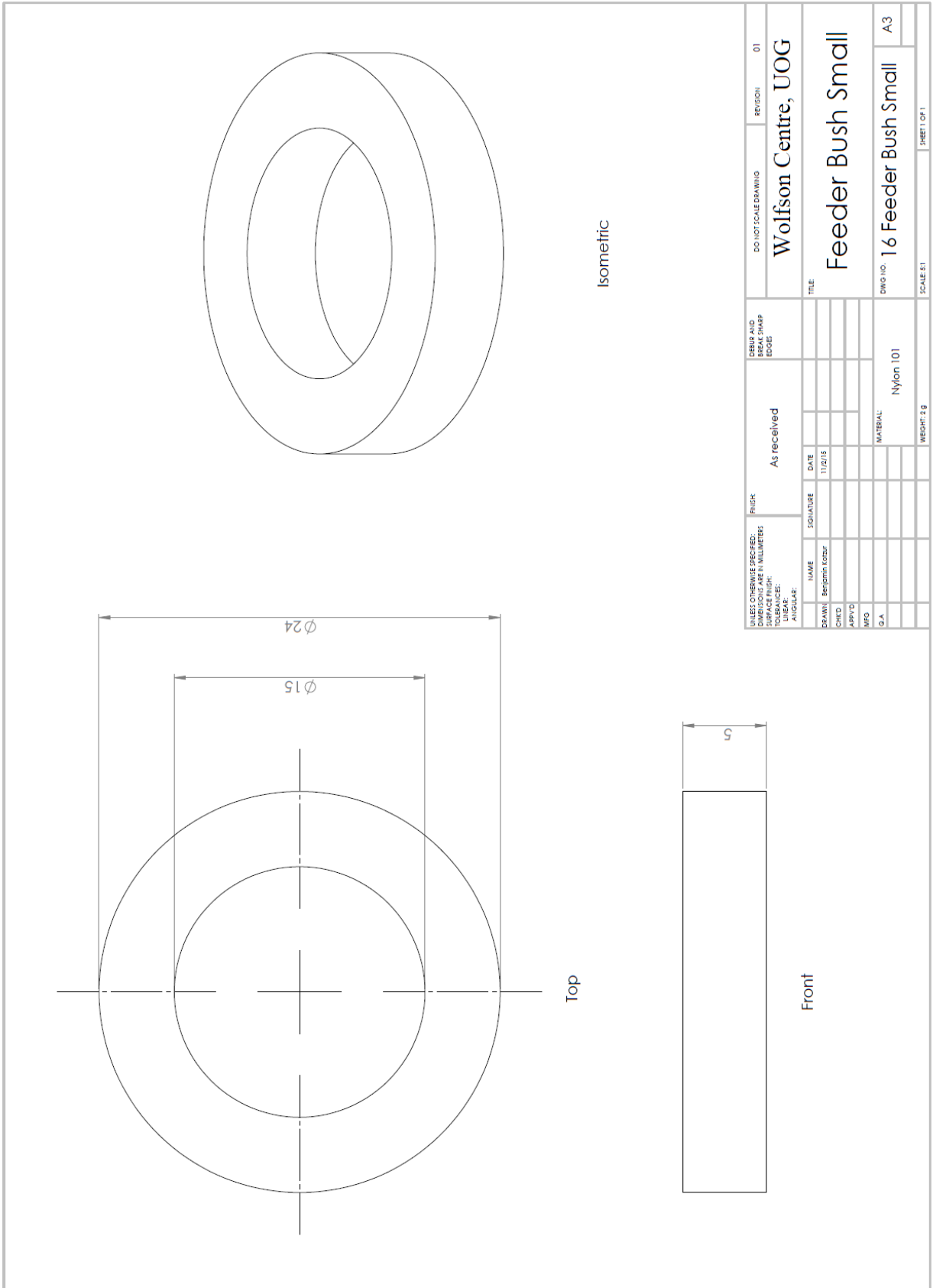


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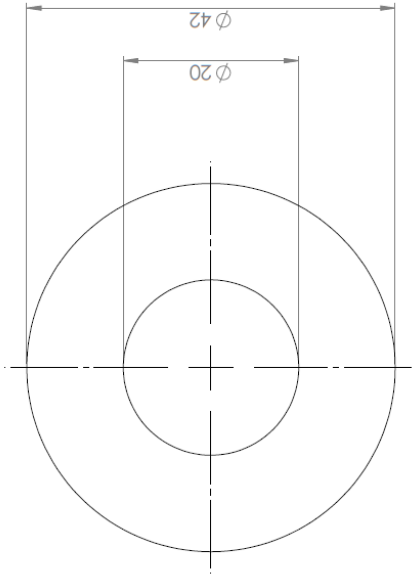
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DRAWN: Benjamin Kotzur			Wolfson Centre, UOG		
DATE: 11/2/15	SIGNATURE:		TITLE: Lid Handle		
APP'D:	NAME:		DWG NO: 14 Lid Handle		
MFG:	MATERIAL: 6061 T6 Aluminium		SCALE: 1:2		
G.A:	WEIGHT: 66 g		SHEET 1 OF 1		



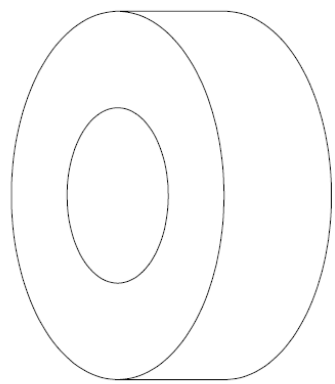
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DRAWN: Benjamin Kotzur		SIGNATURE		DATE		Wolfson Centre, UOG	
CHKD:		DATE		TITLE		Feeder Stand	
APP'D:		DATE		DWG NO.		15 Feeder Stand	
MFG:		DATE		MATERIAL:		A3	
G.A.:		DATE		6061 T6 Aluminium		SCALE: 1:1	
				WEIGHT: 1316 g		SHEET 1 OF 1	



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TITLE: Feeder Bush Small				DRAWN: Benjamin Corby		WOLFSON CENTRE, UOG		
DATE: 11/2/15				CHECKED:		DWG NO: 16 Feeder Bush Small		
APPROVED:				MATERIAL: Nylon 101		SHEET 1 OF 1		
MFG:				WEIGHT: 2.9g		SCALE: 1:1		
G.A.						A3		



Top

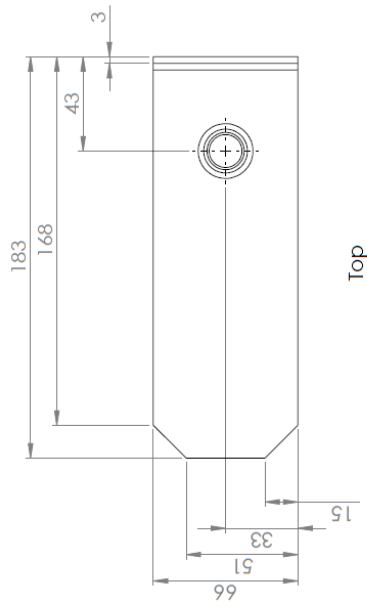


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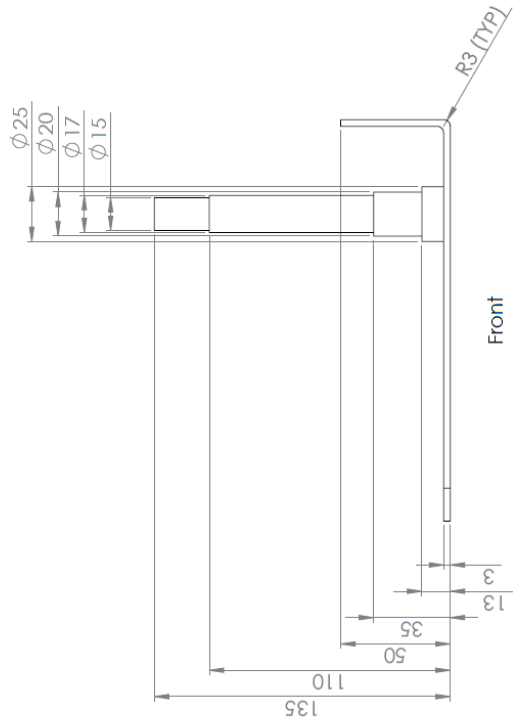


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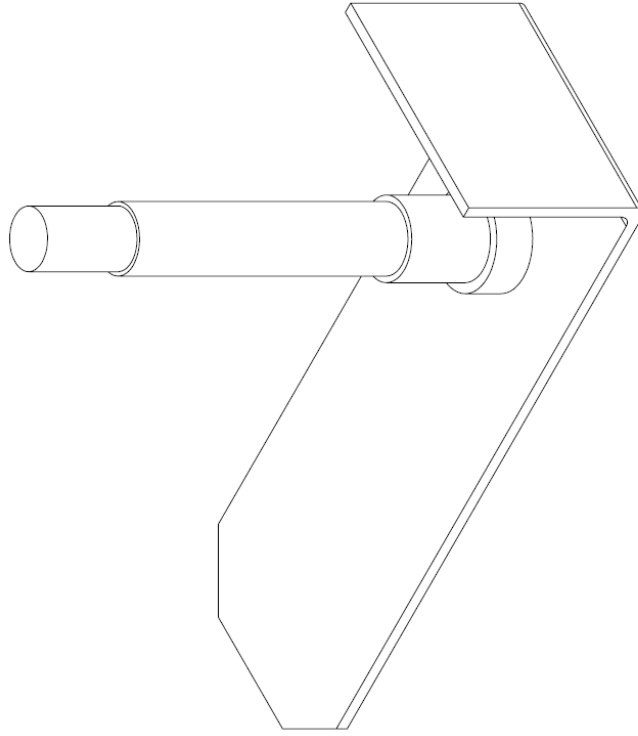
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CHECK:		DATE		11/21/15		Wolfson Centre, UOG	
APP'D:		DATE				Feeder Bush Large	
MFG:		DATE				DWG NO. 17 Feeder Bush Large	
G.A.		DATE		Nylon 101		A3	
		DATE		MATERIAL		SCALE: 1:1	
		DATE		WEIGHT: 18 g		SHEET 1 OF 1	



Top

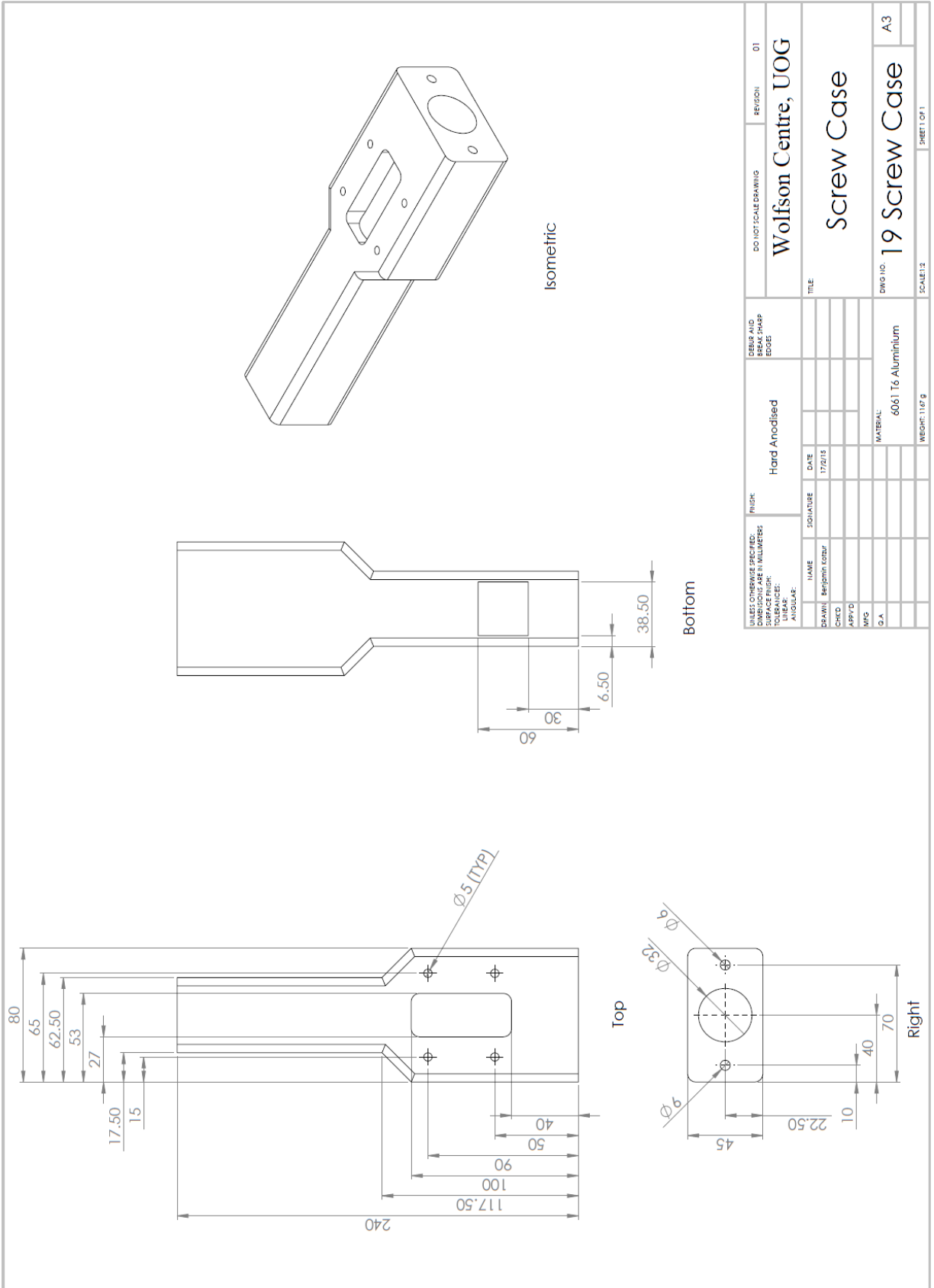


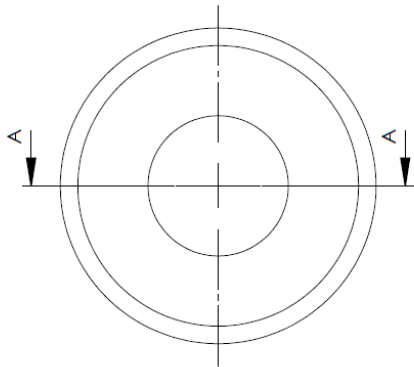
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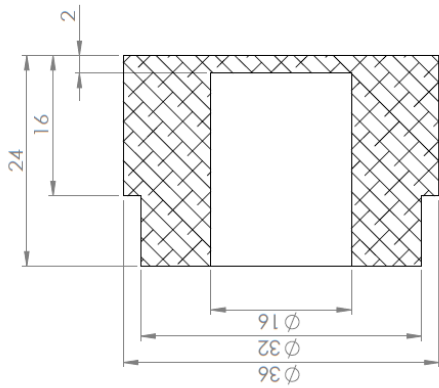
Isometric
SCALE 1 : 1

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DRAWN: Benjamin Kotzur		SIGNATURE	DATE 17/2/15	WOLFSON CENTRE, UOG	
CHKD:	APP'D:			Feeder Base	
MFG:	G.A.			18 Feeder Base	
				A3	
				6061 T6 Aluminium	
				WEIGHT: 211 g	
				SCALE: 1:2	
				SHEET 1 OF 1	

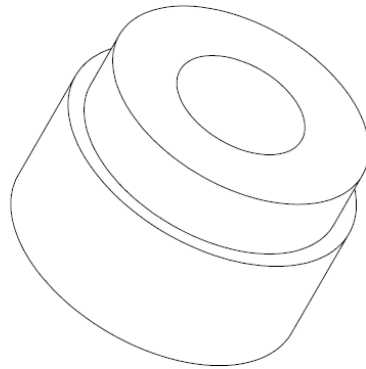




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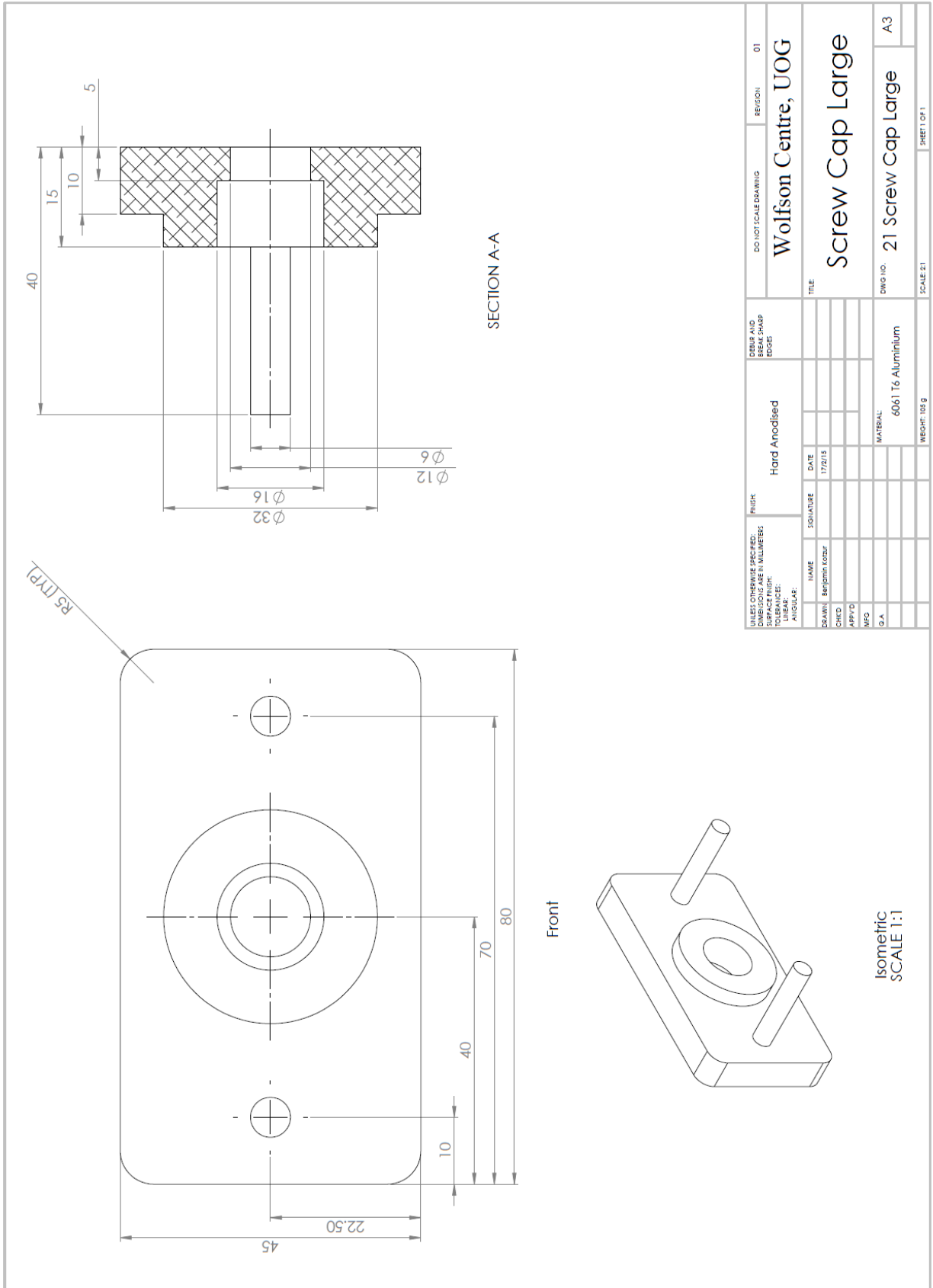


SECTION A-A

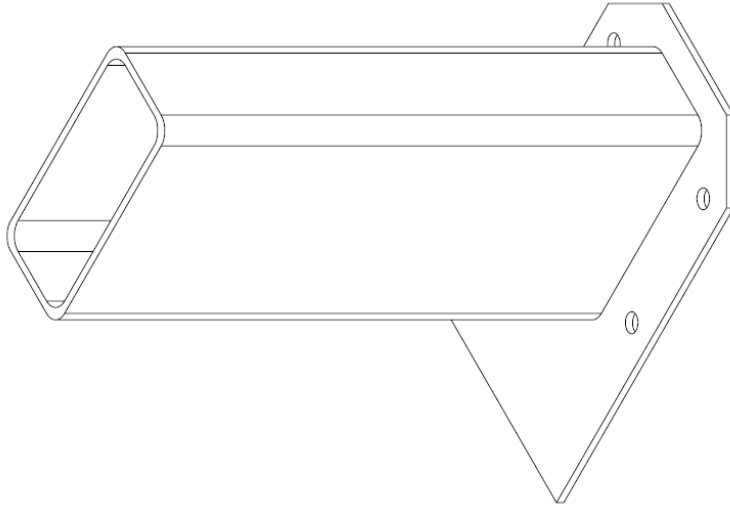
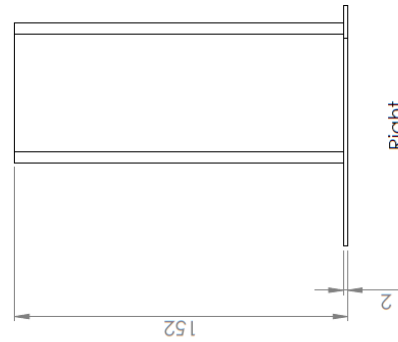
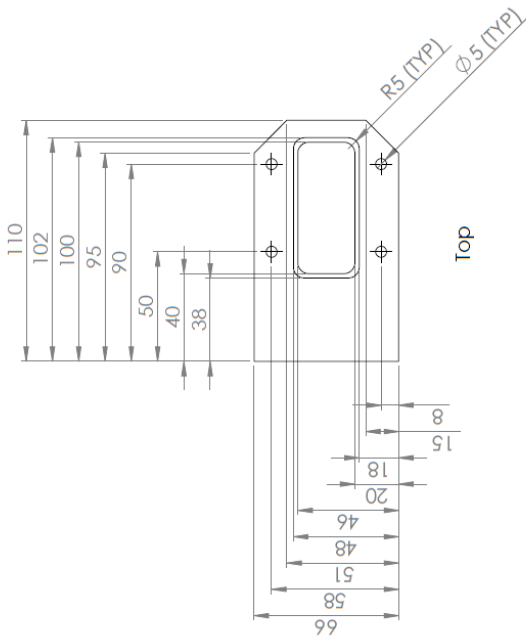


Isometric

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS DIMENSIONS IN PARENTHESES ARE TOLERANCES: MILLIMETERS FRACTIONS		FINISH: Hard Anodised	DEBUR AND REMOVE SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN: Benjamin Kotzur		SIGNATURE		01	
CHKD:	DATE: 17/2/15			Wolfson Centre, UOG	
APP'D:				Screw Cap Small	
MFG:				DWG NO: 20 Screw Cap Small	
G.A:				A3	
			MATERIAL: 6061 T6 Aluminium	SCALE: 1:1	
			WEIGHT: 49 g	SHEET 1 OF 1	

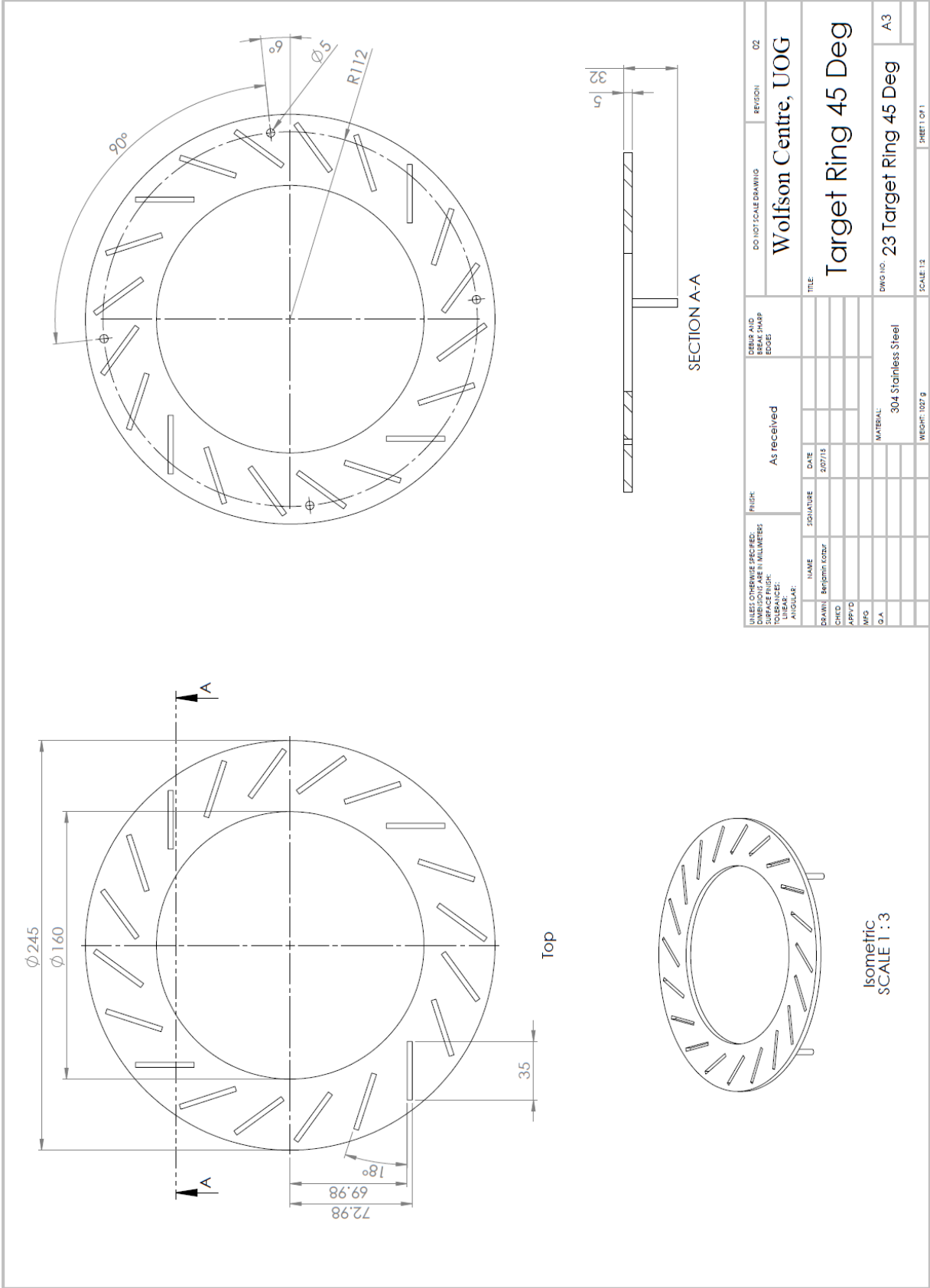


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DRAWN: Benjamin Kotzaf		SIGNATURE	TITLE Wolfson Centre, UOG Screw Cap Large		
DATE	17/2/18	DATE	DWG NO. 21 Screw Cap Large		
APP'D:		MATERIAL	A3		
MPS		6061 T6 Aluminium	SCALE: 2:1		
G.A.		WEIGHT: 105 g	SHEET 1 OF 1		

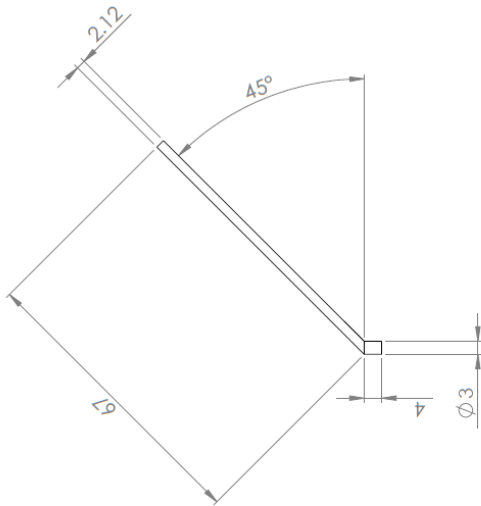


Isometric
SCALE 1:1

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TOLERANCES:		Polished				Wolfson Centre, UOG		01			
± ANGULAR:						Hopper					
NAME	SIGNATURE	DATE	TITLE								
DRAWN: Benjamin Corby		17/2/15									
CHECK:											
APP'D:											
MFG:											
D.A.			MATERIAL:		304 Stainless Steel		DWG NO.		22 Hopper		
								SCALE: 1:2		SHEET 1 OF 1	
										A3	



UNLESS OTHERWISE SPECIFIED: DIMENSIONS IN MILLIMETRS		FINISH:	As received	DEBUR AND FILLET STRIP EDGES	DO NOT SCALE DRAWING	REVISION	02	
TOLERANCES: ANGULAR:		NAME			TITLE			Wolfson Centre, UOG
DRWN:	Benjamin Lotbur	SIGNATURE			TARGET RING 45 DEG			
CHKD:		DATE	2/07/15		DWG NO:			23 Target Ring 45 Deg
APP'D:					MATERIAL:			304 Stainless Steel
MFG:					WEIGHT:			1027 g
QA:					SCALE:			1:3
							SHEET 1 OF 1	

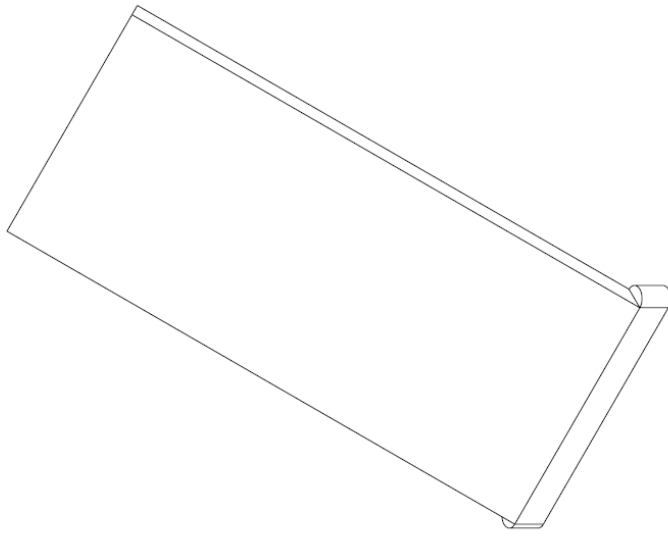


Right

R1.50 (TYP)



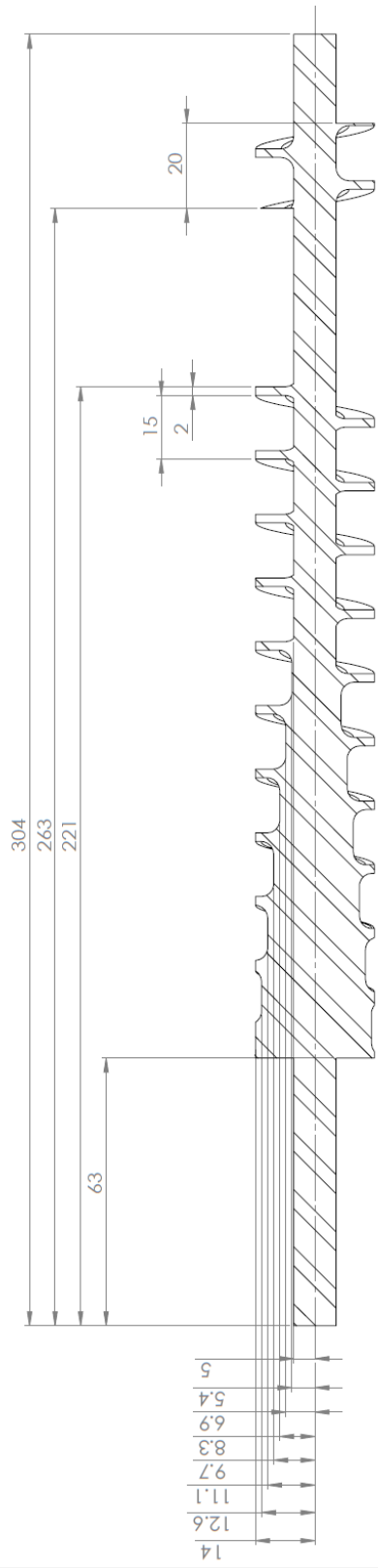
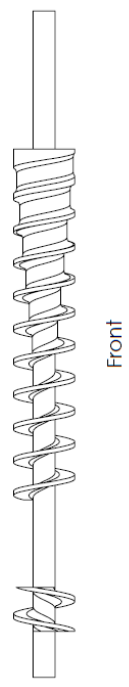
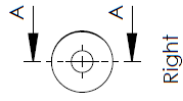
Top



Isometric
SCALE 2 : 1

20 pieces

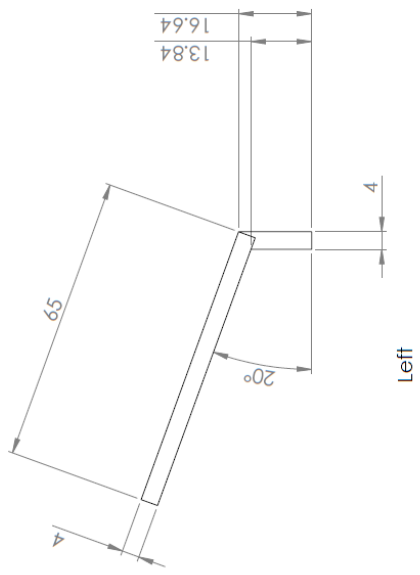
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TOLERANCES: FRACTIONAL DECIMAL		SURFACE FINISH: TEXTURE ANISOLAR:		TBA		TBA		Wolfson Centre, UOG		01	
±0.15	±0.10	±0.10	±0.05	DATE	ISZ/JS	TITLE		Target 45 Deg		A3	
±0.05	±0.02	±0.02	±0.01			DWG NO:		24 Target 45 Deg		A3	
±0.02	±0.01	±0.01	±0.005			MATERIAL:		304 Stainless		SCALE:1:1	
DRAWN: Benjamin Kozar		DATE				WEIGHT: 43 g				SHEET OF 1	
CHKD:		DATE									
APP'D:		DATE									
MFG:		DATE									
QA:		DATE									



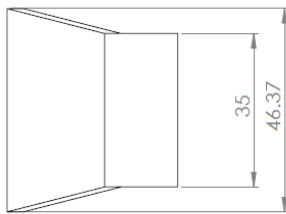
SECTION A-A
SCALE 1:1

All flights radiused with 3mm fillets
 All flights have thickness 2mm
 Pitch spacing: 15mm (constant)
 Minimal surface roughness desirable

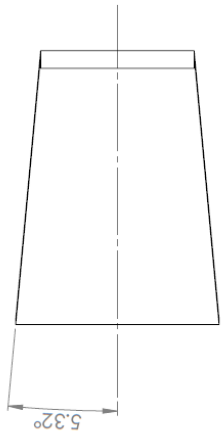
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DRAWN: Benjamin Kotzur		SIGNATURE	DATE	TITLE		
CHKD:			24/04/2012	Wolfson Centre, UOG		
APP'D:				Screw Final Design 2		
MFG:				DWG NO: 25 Screw final design 2		
G.A.				A3		
MATERIAL: Stainless Steel			SCALE: 1:2			
WEIGHT: 518.5 g			SHEET 1 OF 1			



Left



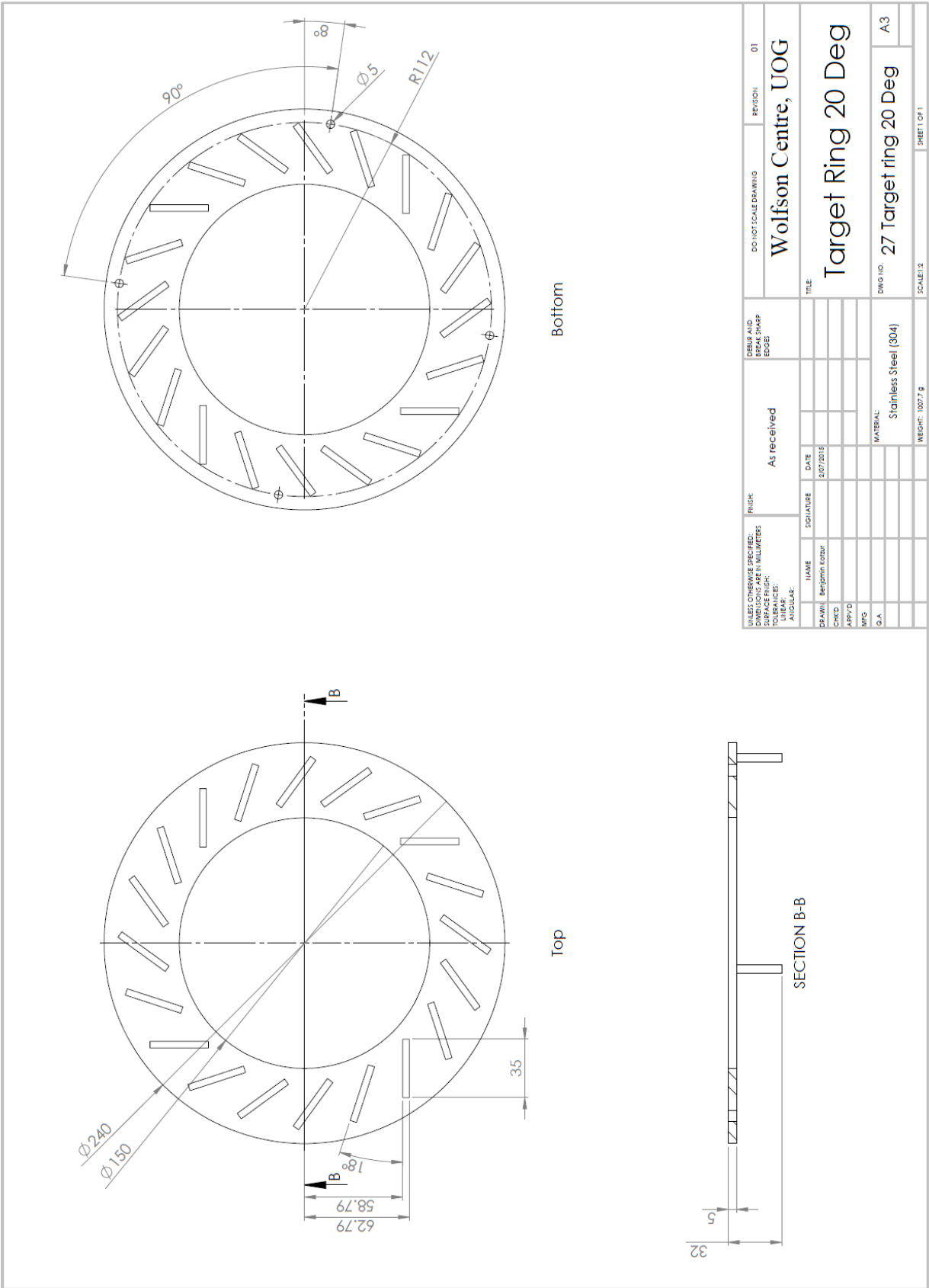
Front



Top

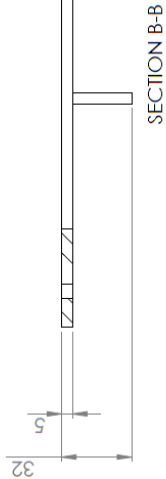
20 Pieces

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS DIMENSIONS IN PARENTHESES ARE TOLERANCES: LIMIT: ANGLE:		FINISH:	TBA	DEBUR AND BENCH SHARP EDGES	DO NOT SCALE DRAWING	REVISION	01
DRAWN: Benjamin Kotzur		SIGNATURE			Wolfson Centre, UOG		
CHKD:	DATE				Target 20 Deg		
APP'D:	30/09/2011				26 Target 20 deg		
MFG:					A3		
G.A.					DWG NO: 26 Target 20 deg		
					SCALE: 1:1		
					SHEET 1 OF 1		
					TITLE		
					MATERIAL: Stainless Steel (304)		
					WEIGHT: 100.13 g		

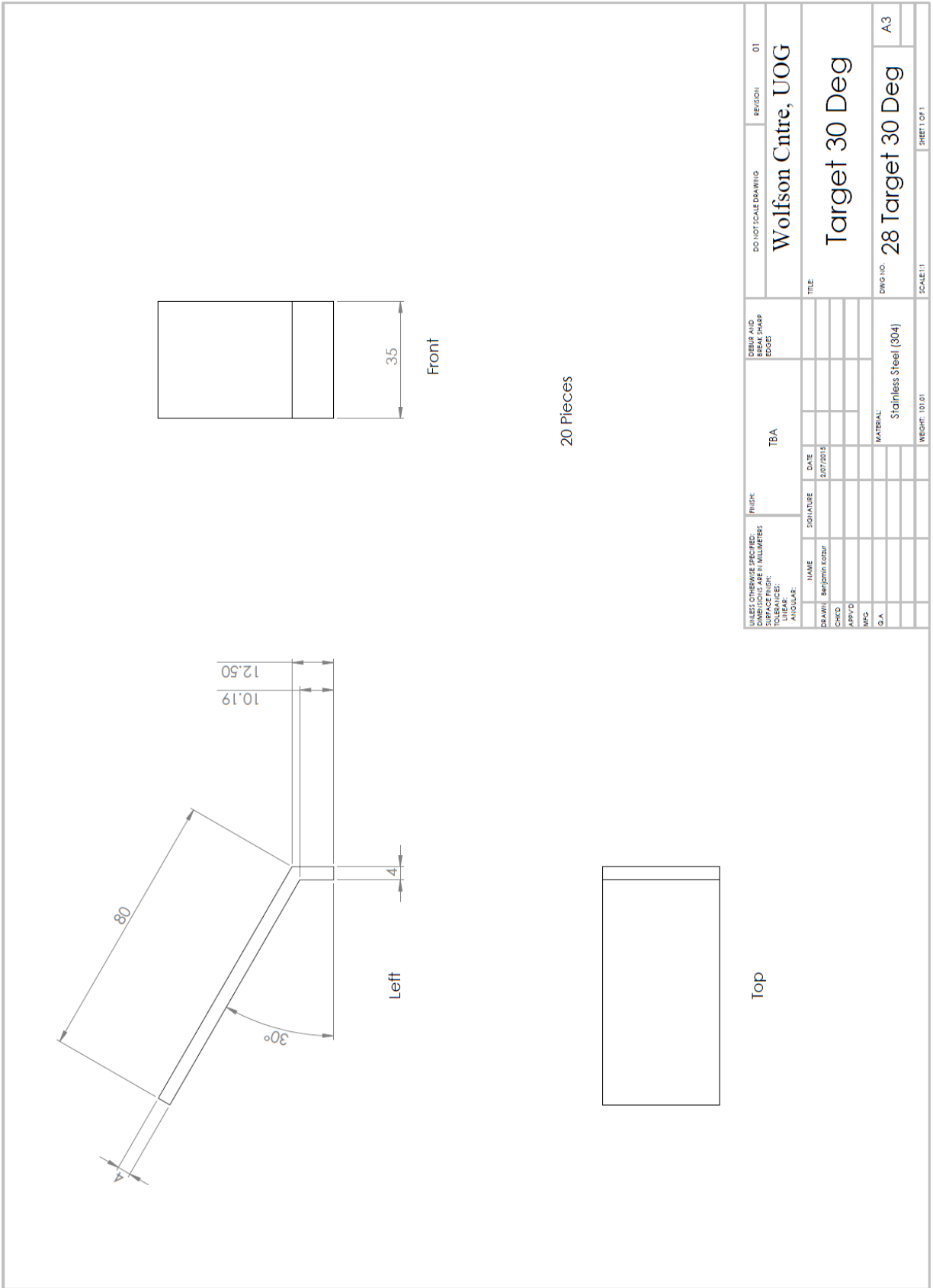


Bottom

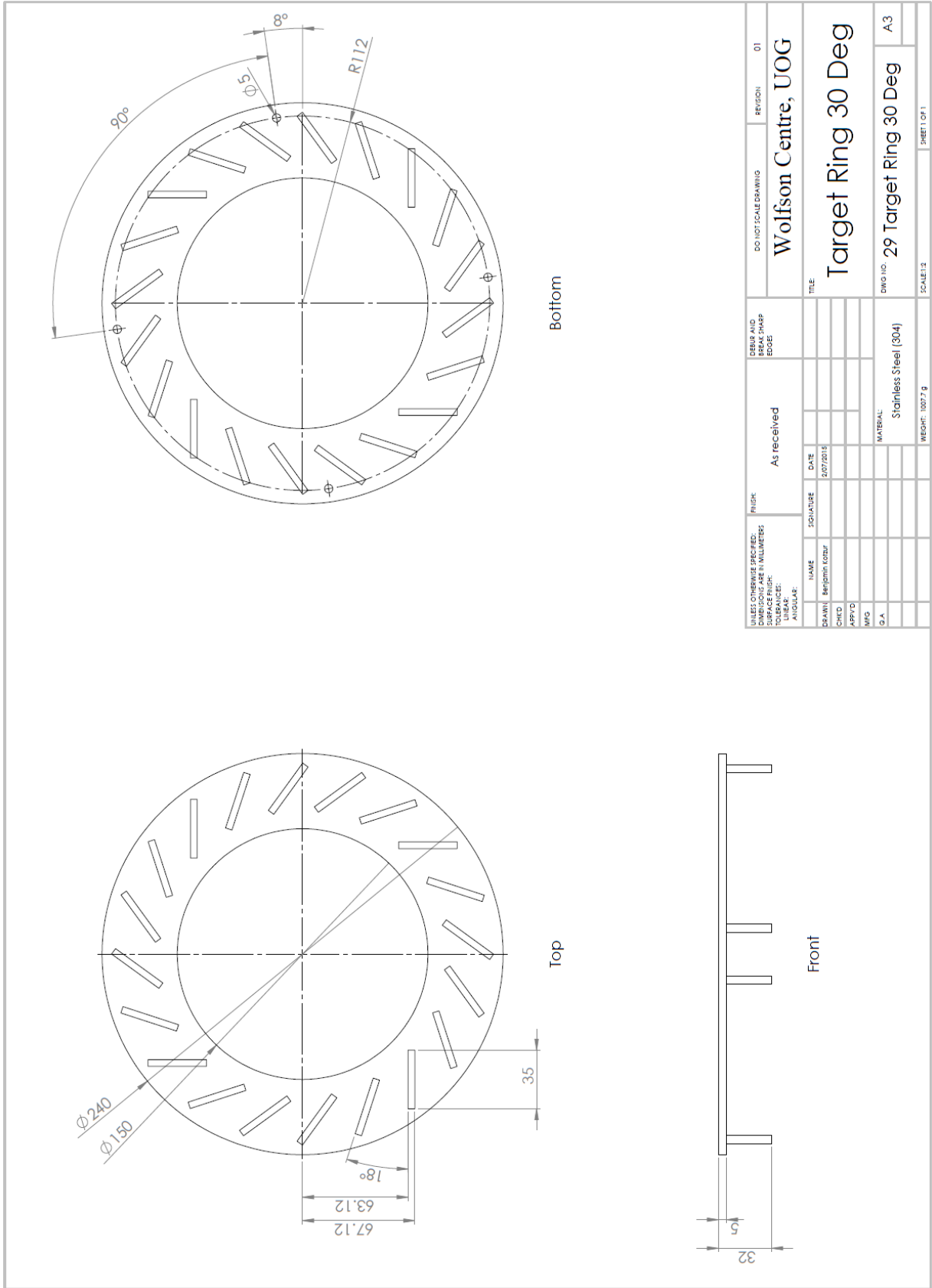
Top



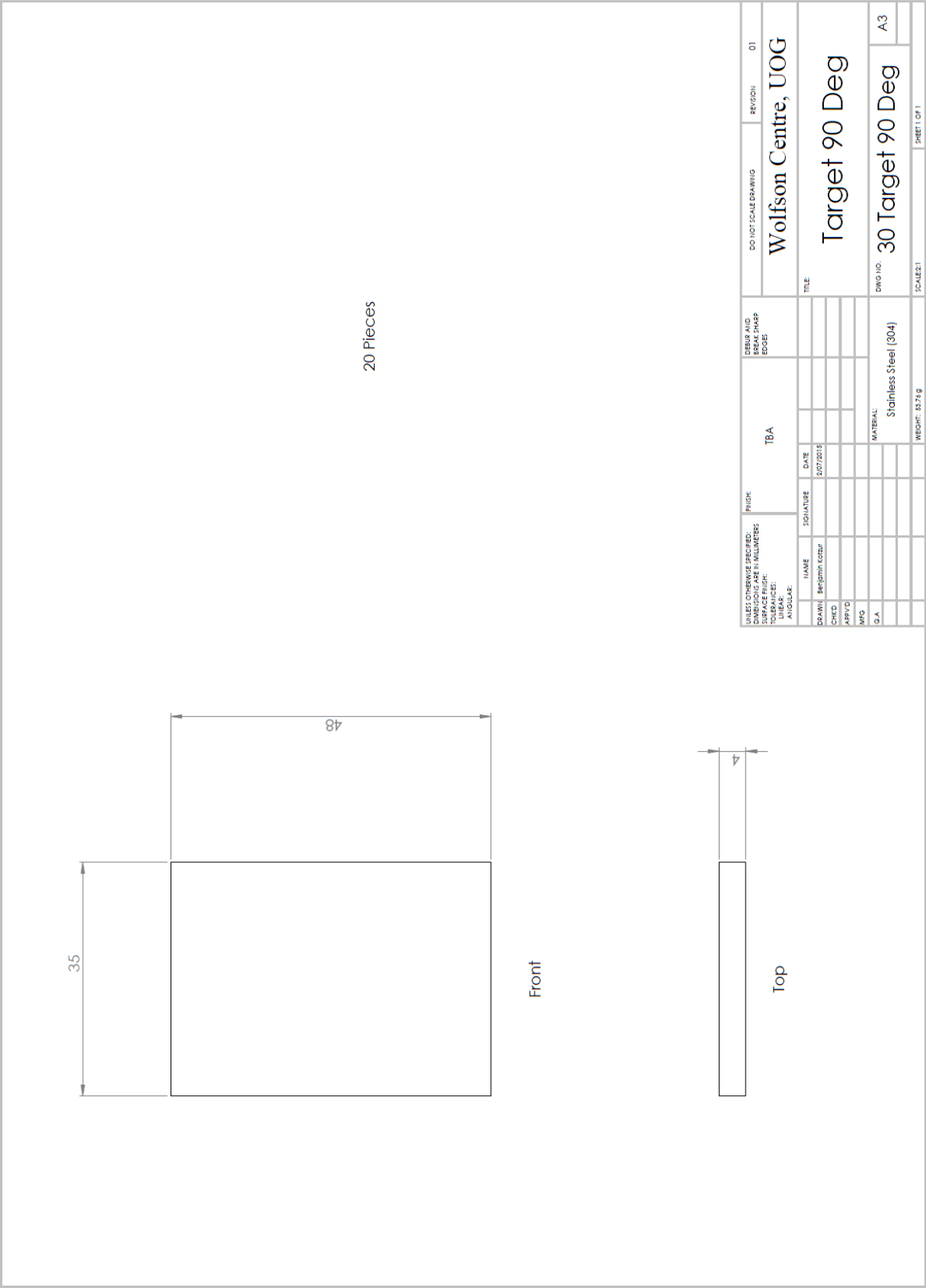
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DRAWN: Benjamin Gorbunov		SIGNATURE		DATE		TITLE		
CHECKED:				2/07/2015		Wolfson Centre, UOG		
APPROVED:						Target Ring 20 Deg		
MFG:						DWG NO: 27 Target ring 20 Deg		
Q.A.						A3		
				MATERIAL: Stainless Steel (304)		SCALE: 1:2		
				WEIGHT: 1007.7 g		SHEET 1 OF 1		



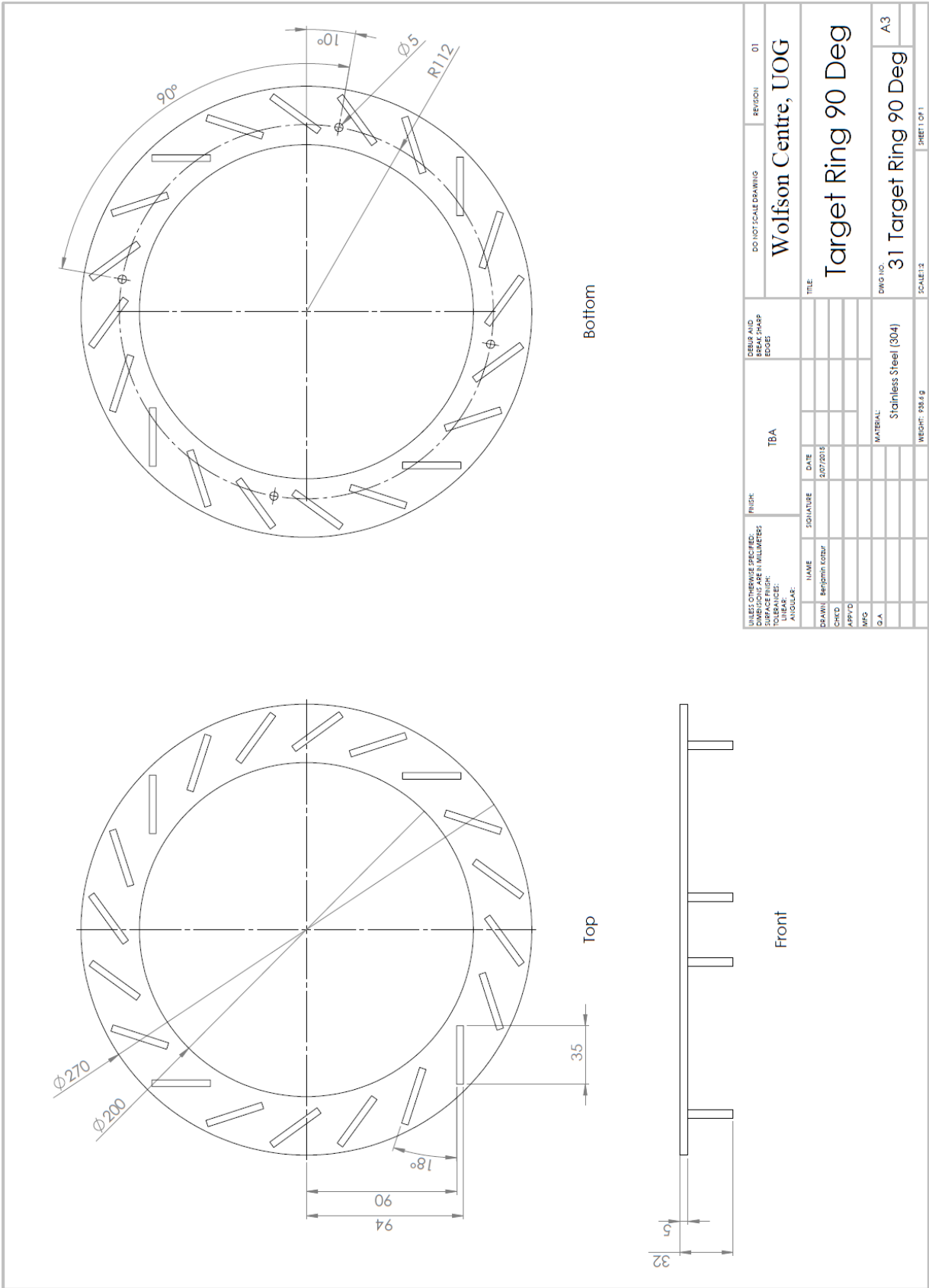
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DRAWN: Benjamin Kotzur		SIGNATURE			Wolfson Centre, UOG		
CHKD:	2/07/2018	DATE			Target 30 Deg		
APP'D:					28 Target 30 Deg		
MFG:					A3		
G.A.					DWG NO: 28 Target 30 Deg		
					SCALE: 1:1		
					SHEET 1 OF 1		



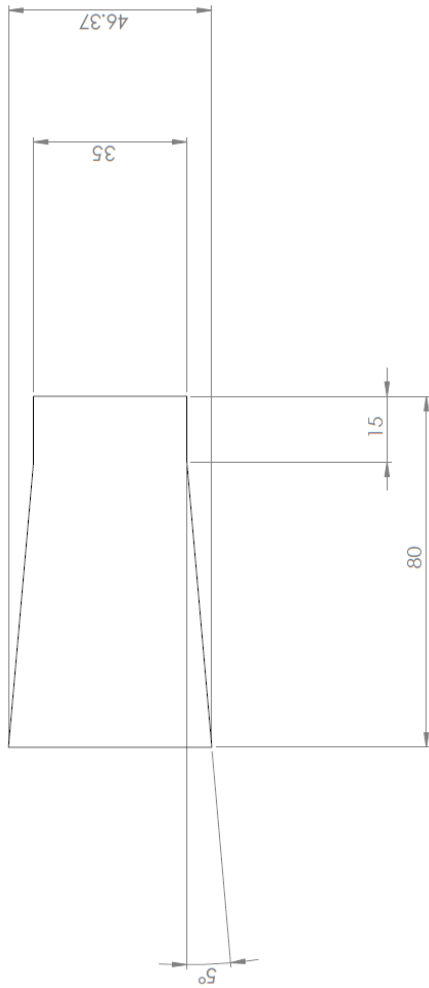
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DRAWN: Benjamin Kotzur		SIGNATURE		DATE		TITLE		
CHKD:					2/07/2018	Wolfson Centre, UOG		
APPR'D:						Target Ring 30 Deg		
MFG:						DWG. NO: 29 Target Ring 30 Deg		
D.A.:						A3		
MATERIAL: Stainless Steel (304)		WEIGHT: 1007.9		SCALE: 1:2		SHEET 1 OF 1		



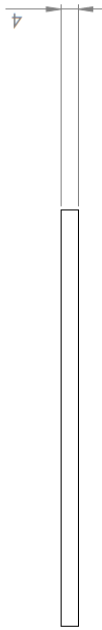
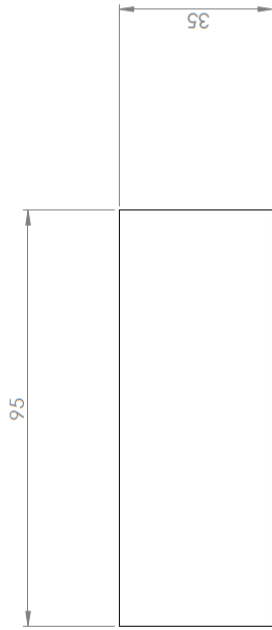
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NAME	SIGNATURE	DATE	TITLE				
Benjamin Kozub		12/07/2015	Wolfson Centre, UOG				
CHK'D			Target 90 Deg				
APP'D			30 Target 90 Deg				
MFG			A3				
QA			30 Target 90 Deg				
MATERIAL: Stainless Steel (304)			DWG NO:		A3		
WEIGHT: 53.74g			SCALE: 1:1		SHEET 1 OF 1		



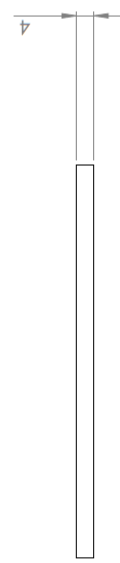
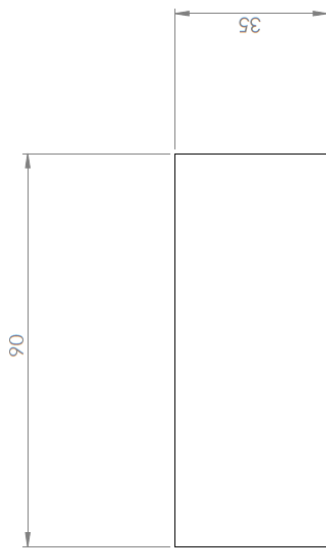
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DRAWN: Benjamin Kotzur		SIGNATURE:	DATE: 2/07/2019	TITLE: Wolfson Centre, UOG		
CHKD:	APPR'D:	MFG:	G.A.	TARGET RING 90 DEG		
MATERIAL: Stainless Steel (304)				DWG NO: 31 Target Ring 90 Deg		
WEIGHT: 238.4 g				SCALE: 1:2		
				SHEET 1 OF 1		



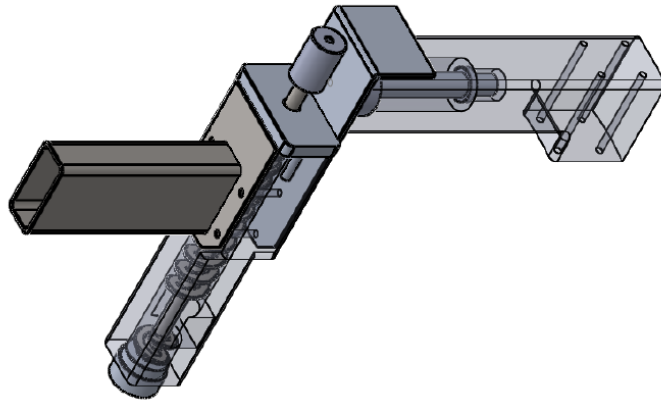
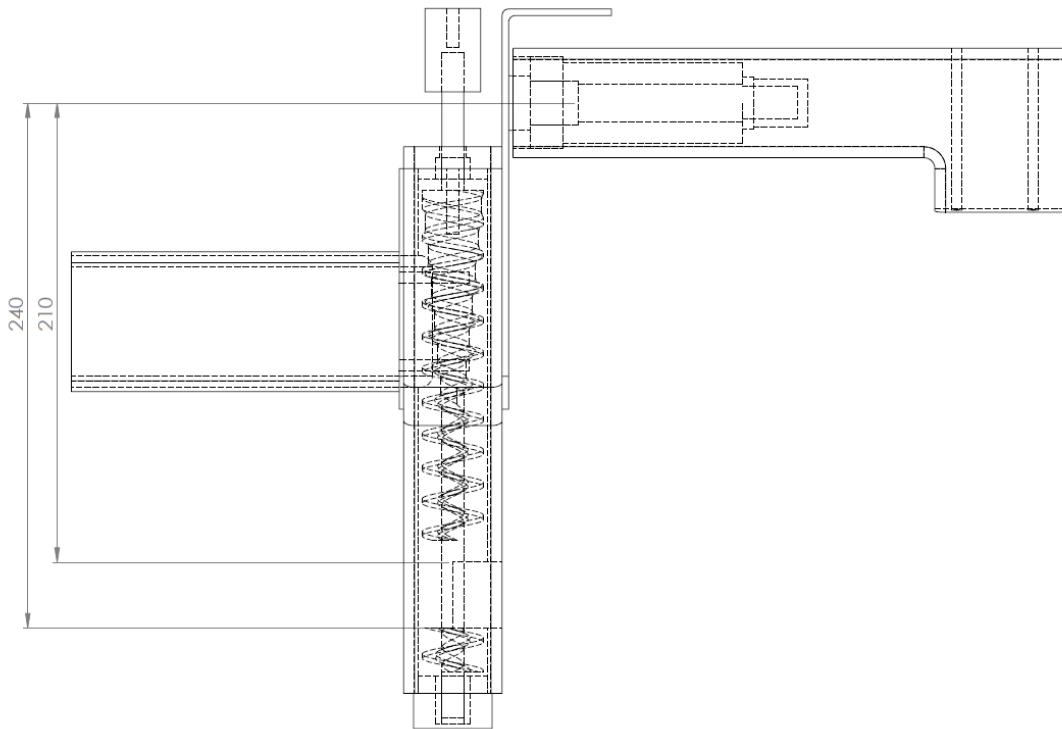
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						01	
						Wolfson Centre, UOG	
						Target 20 Deg Flat	
						32 Target 20 Deg Flat	
						A3	
						SCALE: 1:1	
						SHEET 1 OF 1	
DRAWN: Benjamin Kotzur		SIGNATURE		DATE		TITLE	
CHKD:				28/07/2011			
APP'D:							
MFG:							
G.A.							
						MATERIAL: Stainless Steel	
						WEIGHT: 101 g	



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: UNLESS INDICATED:		FINISH: As Received		DEBUR AND REMOVE SHARP EDGES		DO NOT SCALE DRAWING	REVISION	01
						Wolfson Centre, UOG		
						TITLE Target 30 Deg Flat		
						DWG. NO.		33 Target 30 Deg Flat
						SCALE:1:1		A3
						WEIGHT: 108.4g		
						MATERIAL:		Stainless Steel
NAME	SIGNATURE	DATE						
DRAWN	Benjamin Kotzur	30/07/2011						
CHECK								
APPROV'D								
MFG								
G.A.								



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:		AS RECEIVED		DEBUR AND REMOVE SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
TOLERANCES: FRACTIONS DECIMALS		NAME		SIGNATURE		DATE		TITLE		01	
MATERIAL:		DRAWN		CHECKED		APPROVED		Target 45 Deg Flat		Wolfson Centre, UOG	
34 Target 45 Deg Flat		Benjamin Kozup				30/07/2011		A3			
Stainless Steel		MFG						34 Target 45 Deg Flat			
100 g		G.A.						A3			
WEIGHT: 100 g								SCALE: 1:1		SHEET 1 OF 1	



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:	DO NOT SCALE DRAWING		REVISION
SURFACE FINISH:		DEBUR AND REMOVE SHARP EDGES			
TOLERANCE:					
HOLE POSITION:					
ANGLE:					
DRAWN:	NAME	SIGNATURE	DATE	TITLE	
CHECKED:					
APPROVED:					
MFG:					
Q.A.					
MATERIAL:			35 Assembly feeder 2 centre dis		
SCALE: 1:1			SHEET 1 OF 1		

APPENDIX C: Particulate Material Safety Precautions

This appendix provides all of the relevant information regarding the safety precautions taken throughout the experimental programme with respect to the particulate material. This information is Summarised in Table C-1.

Due to the vast number of tests required, and the limitations of the test facilities available, the material had to pose minimal risk to operator health. Where hazards did exist, the appropriate personal protective equipment was used. Similarly, in order to protect the experimental equipment, the material could not pose any danger to each of the apparatuses used, through being chemically reactive, explosive etc.

Table C-1: Material safety assesment

Particulate Material	Hazards	Precautions Taken
Sodium Chloride	A food-grade class of material was selected for testing, which was deemed to pose no serious health hazards during experimentation.	The following personal protective equipment was worn as a precaution: <ul style="list-style-type: none"> - Safety glasses - Gloves - Lab Coat - Dust Mask
Golden Breadcrumbs	A food-grade class of material was selected for testing, which was deemed to pose no serious health hazards during experimentation.	Good housekeeping was maintained to prevent any potential hazards regarding dust build-up.
Sucrose	A food-grade class of material was selected for testing, which was deemed to pose no serious health hazards	Volumes of dust that could be potentially generated were considered to be small enough to be acceptable for attrition testing, and the event of a dust explosion extremely unlikely. Good house-keeping was maintained throughout the test programme to minimise the risk.

	during experimentation. Dust explosion	
Biomass Pellets	Dust inhalation Dust Explosion	The following personal protective equipment was worn as a precaution: <ul style="list-style-type: none"> - Safety glasses - Gloves - Lab Coat - Dust Mask <p>The sample sizes used in the present work were not deemed large enough for a significant explosion hazard to exist. Good house-keeping was maintained throughout the test programme to minimise the risk.</p>
Carbolux SK	Dust inhalation Dust explosion	The following personal protective equipment was worn as a precaution: <ul style="list-style-type: none"> - Safety glasses - Gloves - Lab Coat - Dust Mask <p>Minimum ignition energy determined to be high enough for safe pneumatic conveying (>400 mJ)</p>
Adipic Acid	Adipic acid is a mild skin irritant, mildly toxic, and causes serious irritation if brought into contact with the eyes.	The following personal protective equipment was worn as a precaution: <ul style="list-style-type: none"> - Sealed goggles - Gloves - Lab Coat - Dust Mask - Plastic coveralls

		All equipment was washed thoroughly after use.
Spent FCC Catalyst	Respiratory tract irritation Skin sensitisation Allergic reaction to nickel	The following personal protective equipment was worn as a precaution: <ul style="list-style-type: none"> - Sealed goggles - Gloves - Lab Coat - Dust Mask - Plastic coveralls All equipment was washed thoroughly after use.

APPENDIX D: Example of Single Bend Attrition Tester Data Processing

This appendix with detail the process undertaken to interpret the data obtained from the Single Bend Attrition Tester data logging system. Each conveying variable shall be addressed individually. The example test that formed the subject of the following commentary had a hopper outlet diameter of 10 mm, and conveyed Carbolux SK Type C (the largest d50 of all three types of Carbolux SK).

D.1 Mass Flow Rate of Solids

The data obtained from the hopper load cells took the form of the data points graphed in Figure D-1. The steady-state mass flow rate was determined by selecting two data points on the primary slope of the plotted line, free from the start-up and shut-down transients of the solids flow out of the hopper. Example data points are shown in red. The gradient of a straight line connecting the two red data points was taken to be the time-averaged mass flow rate of solids into the SBAT conveying line. The value obtained in this case is: 0.013181788 g/s. This value is then rounded down appropriately: 0.013 g/s.

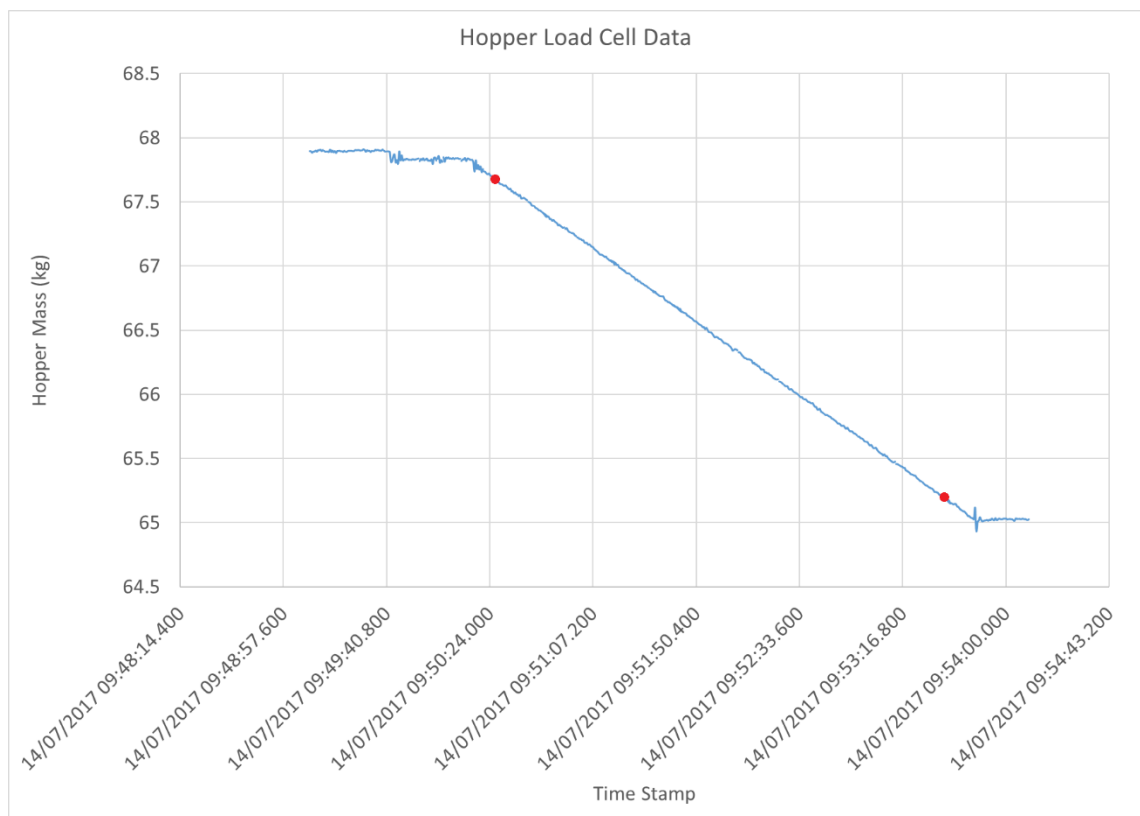


Figure D-1: Data acquired from the hopper load cells, plotted, and calculation points specified in red.

D.2 Pre- and Post-Bend Particle Velocities

The data obtained from the electrostatic velocity sensors positioned before and after the bend in the SBAT pipeline is graphed in Figure D-2 (showing 6 separate conveying conditions). The steady state particle velocity was determined by obtaining the time-averaged value from conveying condition data set, denoted by different coloured points.

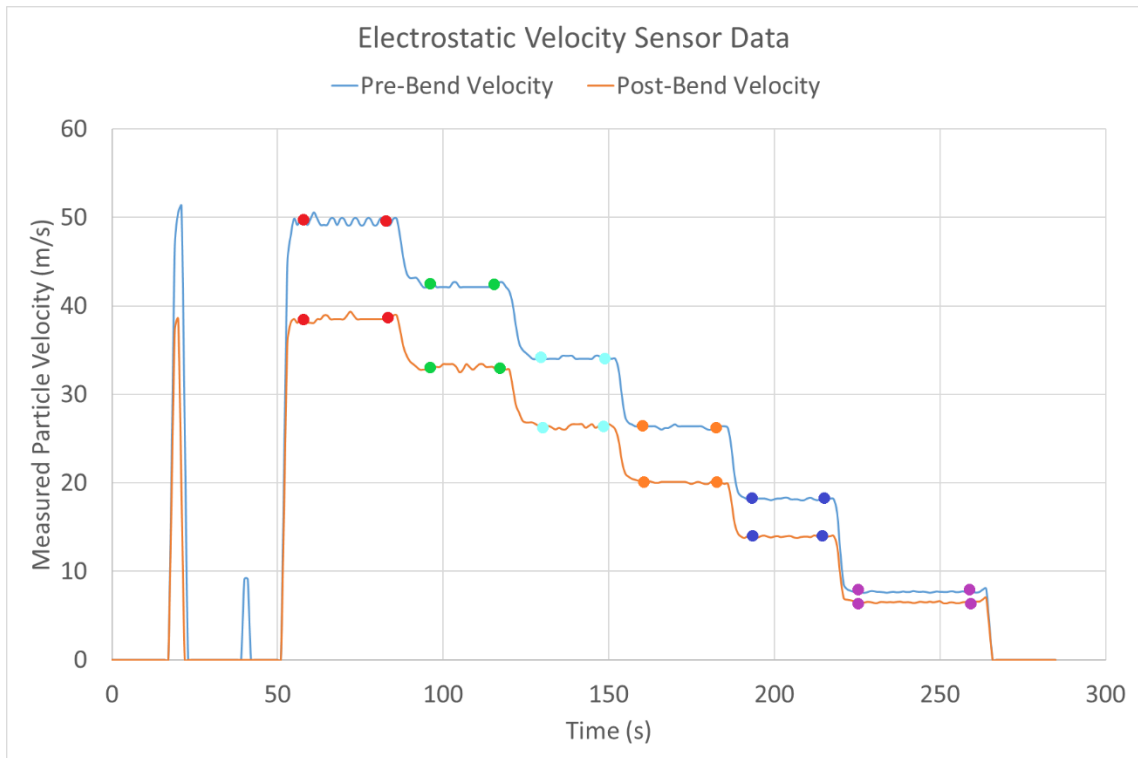


Figure D-2: Electrostatic Particle velocity sensor data, graphed for 6 different conveying conditions

The results obtained from this data processing are summarised in Table D-1 in chronological order (from left to right in Figure D-2). Values were then rounded accordingly.

Table D-1: Data processing results for particle velocity data

Conditions	Pre- Bend Particle Velocity (m/s)	Post- Bend Particle Velocity (m/s)
1	49.56803	38.49678
2	42.24075	33.1028
3	34.14384	26.38009
4	26.33397	20.06005
5	18.19016	13.93064
6	7.692745	6.513527

D.3 Air Flow Conditions

The data obtained from the air mass flow sensor is graphed in Figure D-3, and the data obtained from the pre-bend pressure transducer is graphed in Figure D-4. The air mass flow rate and pre-bend pressure was analysed in the same manner as the analysis carried out on Figure D-2, and the temperature data was averaged across the same time interval as the air mass flow rate. The results of the subsequent analysis are given in Table D-2.

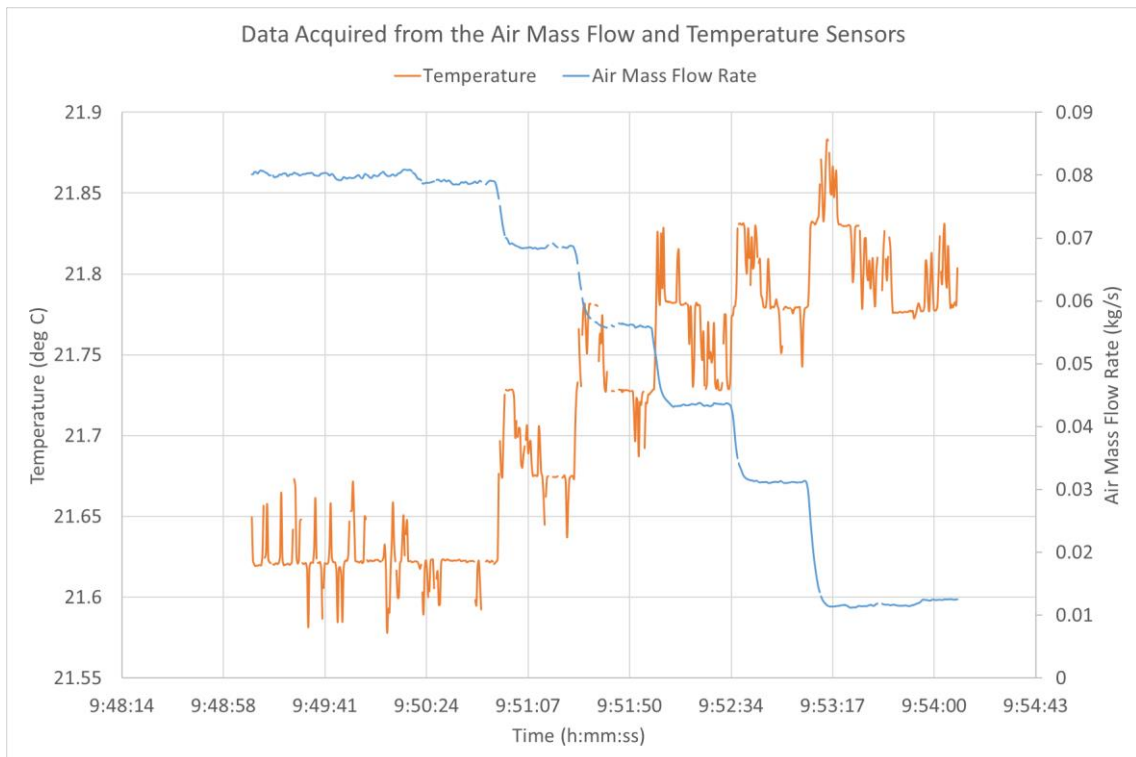


Figure D-3: Raw Temperature and Mass Flow Rate Data

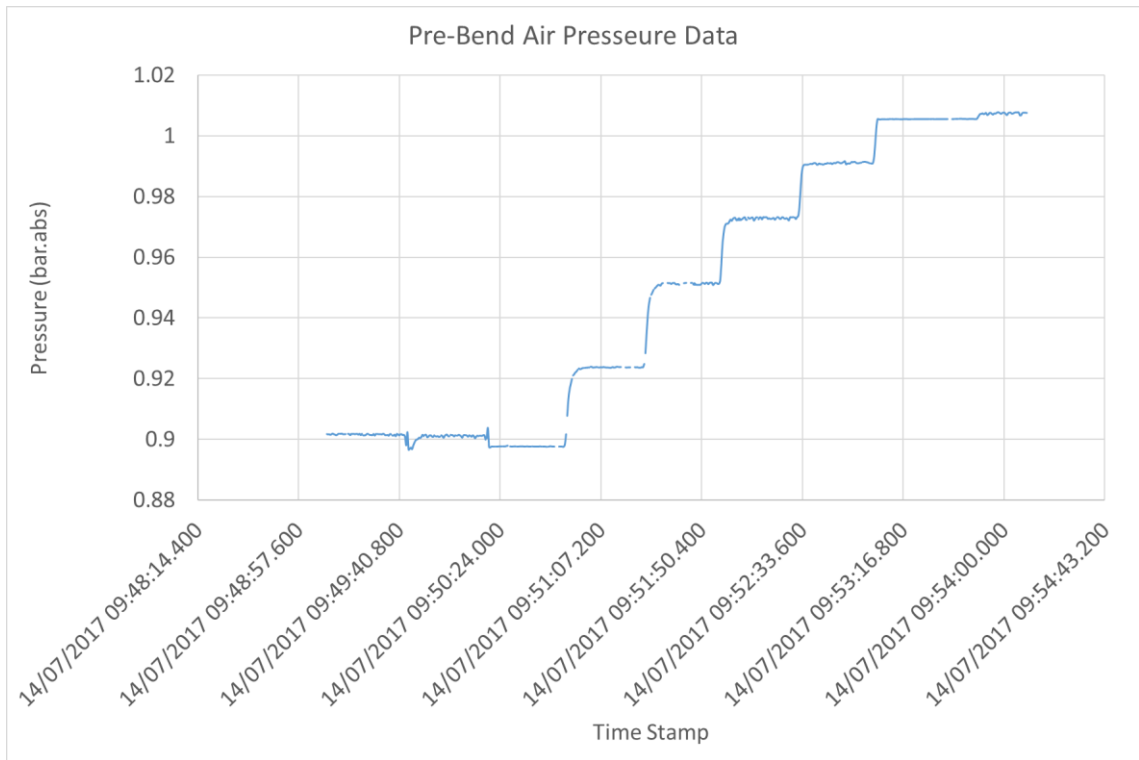


Figure D-4: Raw Pre-Bend Pressure Data

Table D-2: Results of data analysis for air mass flow rate, pre-bend air pressure, and air temperature for each of the conveying conditions

Condition	Pre-Bend Pressure (bar.abs)	Temperature (deg C)	Air Mass Flow (kg/s)
1	0.897546	21.61894	0.078818
2	0.923662	21.67816	0.068507
3	0.951284	21.72135	0.056084
4	0.972935	21.75665	0.043494
5	0.991118	21.7781	0.031119
6	1.005547	21.79799	0.011523

APPENDIX E: Conveying Conditions Tested in the Single Bend Attrition Tester

This appendix contains the raw data and calculations from which the analysis was performed on the conditions tested in the SBAT.

Short	1045	30	0.2729405	0.872153	21.43529945	0.8140129	0.0512466	1.031931953	0.061426351	45.23220612	10.55810571
Short	1045	30	0.2729405	0.907655853	21.57560188	0.863021765	0.042241794	1.073427707	0.051285804	36.30517041	8.6687120816
Short	1046	20	0.09727311	0.882883189	23.40039454	0.826316703	0.070770108	1.037705678	0.083412284	61.08012685	15.69551146
Short	1046	20	0.09727311	0.91500625	23.47853794	0.871169387	0.061051278	1.075178524	0.072467655	51.21624551	13.25411302
Short	1046	20	0.09727311	0.940333743	23.53120389	0.909229114	0.050951314	1.104743461	0.061093822	42.02231453	10.56766228
Short	1046	20	0.09727311	0.965477526	23.57695111	0.945301474	0.039044026	1.134108555	0.047684714	31.94983865	8.030539837
Short	1046	20	0.09727311	0.988397	23.62698933	0.97774686	0.025707	1.160835405	0.032665541	21.38273799	5.510073004
Short	1047	10	0.013181788	0.897546263	21.61894434	0.858295895	0.078818026	1.061315651	0.092475255	66.2102273	16.64220009
Short	1047	10	0.013181788	0.923662371	21.6781594	0.895756429	0.068507171	1.091977631	0.080863932	56.27107637	14.03032641
Short	1047	10	0.013181788	0.951284192	21.72134792	0.931801077	0.056084385	1.1244468145	0.066874307	45.191444712	11.04760335
Short	1047	10	0.013181788	0.972934659	21.7566478	0.96240339	0.043494195	1.149292479	0.052696126	34.82220683	8.48810223
Short	1047	10	0.013181788	0.991117787	21.77810297	0.987137897	0.031191172	1.171328236	0.038760329	44.26732599	6.954916856
Short	1047	10	0.013181788	1.00546939	21.79799024	1.006215388	0.011523429	1.188300716	0.01669305	10.67464526	2.981900228
Short	1048	10	0.016544945	0.893448881	24.10987915	0.854064542	0.076846169	1.047617789	0.090254695	65.46528323	11.8289196
Short	1048	10	0.016544945	0.921164178	24.14243864	0.892202711	0.066700889	1.079997199	0.07882983	55.46411283	10.13921405
Short	1048	10	0.016544945	0.947373457	24.17261074	0.928226914	0.054153286	1.110612934	0.064699646	44.26732599	7.988095547
Short	1048	10	0.016544945	0.968641917	24.21523619	0.956845694	0.042489111	1.135383334	0.051564314	34.51046752	6.415229428
Short	1048	10	0.016544945	0.986335333	24.23629842	0.980351528	0.031132694	1.156040602	0.038775557	25.48760724	5.559287522
Short	1048	10	0.016544945	1.001152492	24.31252529	1.000586068	0.012920322	1.173106453	0.018266128	11.83186467	2.021765258
Short	1049	20	0.111454465	0.864805862	23.42765479	0.808215552	0.069132724	1.01636488	0.081568383	60.98405719	12.08315628
Short	1049	20	0.111454465	0.897405406	23.50050491	0.85401425	0.059577781	1.054418559	0.070808312	51.02879488	9.866004187
Short	1049	20	0.111454465	0.925298657	23.5845847	0.895460472	0.049097583	1.087252111	0.059006288	41.23938142	7.857879972
Short	1049	20	0.111454465	0.952936457	23.62145114	0.933877971	0.037912657	1.119209206	0.04641065	31.51015121	6.224436922
Short	1051	30	0.303687081	0.8028145	21.24017942	0.695579038	0.063329038	0.95052018	0.030647005	20.28842769	4.234417276
Short	1051	30	0.303687081	0.837369853	21.36123006	0.752193	0.056905382	0.991025692	0.067798854	51.98541919	9.842562049
Short	1052	30	0.304247487	0.874941657	23.29799397	0.810180886	0.047976343	1.028726744	0.057743629	42.65286003	7.91542687
Short	1053	30	0.304138345	0.913636333	23.45794856	0.863736792	0.0388993	1.073643326	0.047627252	33.70851407	6.698773813
Short	1054	40	0.652926	0.944174961	23.9166632	0.906707784	0.030323451	1.107816968	0.037874382	25.97895336	6.432351812
Short	1055	40	0.652926	0.769905938	23.28263891	0.600450625	0.0489975	0.878875543	0.058893581	50.91956609	10.71867976
Short	1056	40	0.655590667	0.800710545	23.09846915	0.658019152	0.045492906	0.905276195	0.054946966	46.1218513	9.456147402
Short	1057	40	0.652937208	0.840507189	23.01630619	0.68019152	0.040392909	0.942082389	0.049203726	39.68745232	7.664506025
N/A	2000	10	0.019119701	0.989166008	17.80018307	0.72736127	0.03556373	0.989179792	0.043765461	33.62020729	7.391111475
N/A	2001	10	0.018799	0.96572922	17.74733193	0.946464074	0.032233877	1.185004503	0.040015627	25.65982791	0.710199077
N/A	2002	10	0.01823673	1.004926937	18.18019413	0.969747984	0.04803213	1.157137813	0.057806453	37.96079905	0.907486675
N/A	2003	10	0.016603543	1.005249369	18.43916873	1.010790189	0.01564748	1.202315487	0.021337253	13.48541042	-0.529956386
N/A	2004	10	0.016231921	0.990214386	19.69213255	1.011096809	0.015452021	1.201633073	0.021117141	13.35387661	-0.548948502
N/A	2005	10	0.015723917	0.968190331	19.69895638	0.992979977	0.033273992	1.178596434	0.041186928	26.55451617	0.136147799
						0.9701786	0.047131346	1.152355588	0.056792056	37.44942843	0.565491651

APPENDIX F: MATLAB Code for Breakage Map Generation

This appendix contains the code used to generate the breakage matrices presented throughout the thesis.

The inputs to the program consist of three column vectors (x , v , and p) which specify the values of the particle concentration, particle/superficial air velocity, and the damage characteristic under inspection respectively.

```
x_plot = linspace(min(x),max(x),1000);
y_plot = linspace(min(v),max(v),1000);
[XI,YI] = ndgrid(x_plot,y_plot);
F = TriScatteredInterp(x,v,p,'natural');
ZI = F(XI,YI);
figure()
mesh(XI,YI,ZI)
figure(3);
surf(XI,YI,ZI,'EdgeColor','none')
hold on
contour3(XI,YI,ZI,60,'k')
plot3(x,v,p)
hold off
[xq,vq] = meshgrid(-2:.2:2, -2:.2:2);
pq = griddata(x,v,p,xq,vq);
mesh(xq,vq,pq)
x_plot = linspace(min(x),max(x),1000);
y_plot = linspace(min(v),max(v),1000);
[XI,YI] = ndgrid(x_plot,y_plot);
F = TriScatteredInterp(x,v,p,'natural');
ZI = F(XI,YI);
hold on
contour3(XI,YI,ZI,60,'k')
surf(XI,YI,ZI,'EdgeColor','none')
scatter3(x,v,p,'bo','filled')
xlim([0 12]) %Modify bounds of X axis
ylim([0 40]) %Modify bounds of Y axis
caxis([-1,2]) %Modify bounds of Z axis
```

APPENDIX G: Industrial Scale Pneumatic Conveying Test Conditions

This appendix gives all of the conveying conditions for each experiment performed in the existing Industrial Scale Pneumatic Conveying Plant in the Wolfson Centre Laboratory. The experiments are categorised by material type.

G.1 Carbolux SK Type C

Table 1: Conveying conditions for Carbolux SK Type C in the Existing Industrial-Scale Pneumatic Conveying Plant

Batch ID	Cycle Number	Averaged Superficial Air Velocity in Pipeline (m/s)		Solids Loading Ratio (kg/kg)
		Start	End	
A	1	24.70	28.0	0.44
A	2	22.75	28.0	0.53
A	3	24.08	27.7	1.17
A	4	24.08	27.7	1.17
A	5	24.08	27.7	1.13
A	6	24.08	27.7	1.12
A	7	23.57	28.4	2.43
A	8	24.19	27.7	1.08
A	9	24.31	27.7	1.10
A	10	24.19	27.7	1.09
A	11	24.19	27.7	1.10
B	1	29.90	36.7	0.80
B	2	29.97	36.7	0.78
B	3	30.17	36.7	0.78
B	4	30.02	36.7	0.78
B	5	29.85	36.7	0.82
B	6	29.78	36.7	0.83
B	7	29.85	36.7	0.91
B	8	29.90	36.7	0.91
B	9	29.90	36.7	0.91
B	10	29.85	36.7	0.93
B	11	29.90	36.7	0.91
C	1	23.03	30.5	4.28
C	2	22.91	30.5	4.23
C	3	22.94	30.5	4.28
C	4	22.94	30.5	4.31
C	5	22.86	30.5	4.27
C	6	22.91	30.5	4.25
C	7	23.15	30.7	4.26
C	8	22.77	30.5	4.33
C	9	22.99	30.5	4.23
C	10	22.94	30.5	4.27
C	11	22.99	30.5	4.26

G.2 Adipic Acid

Table 2: Conveying conditions for Adipic Acid in the Existing Industrial-Scale Pneumatic Conveying Plant

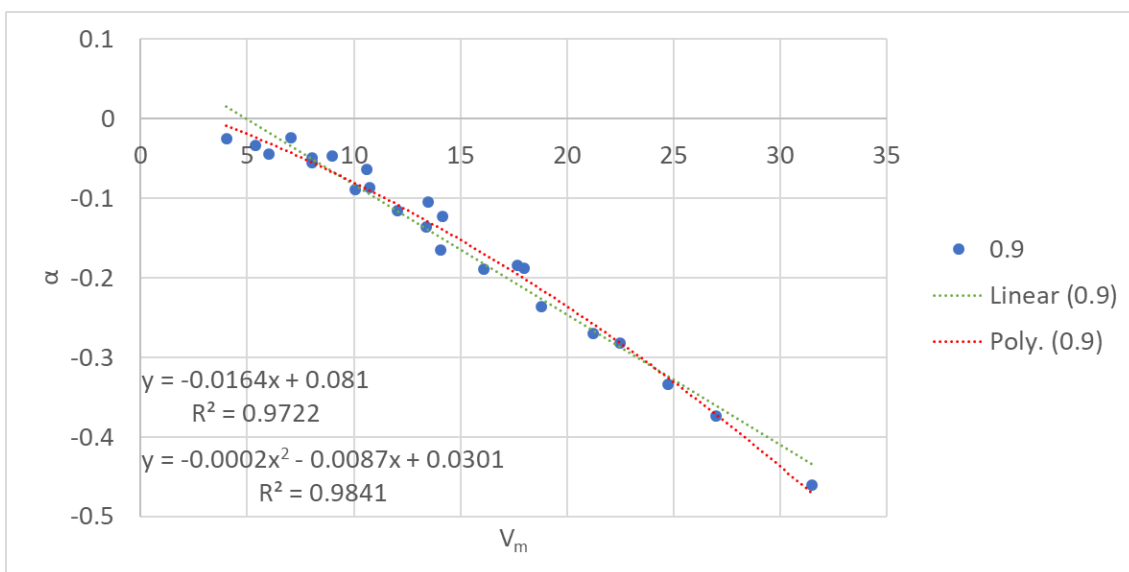
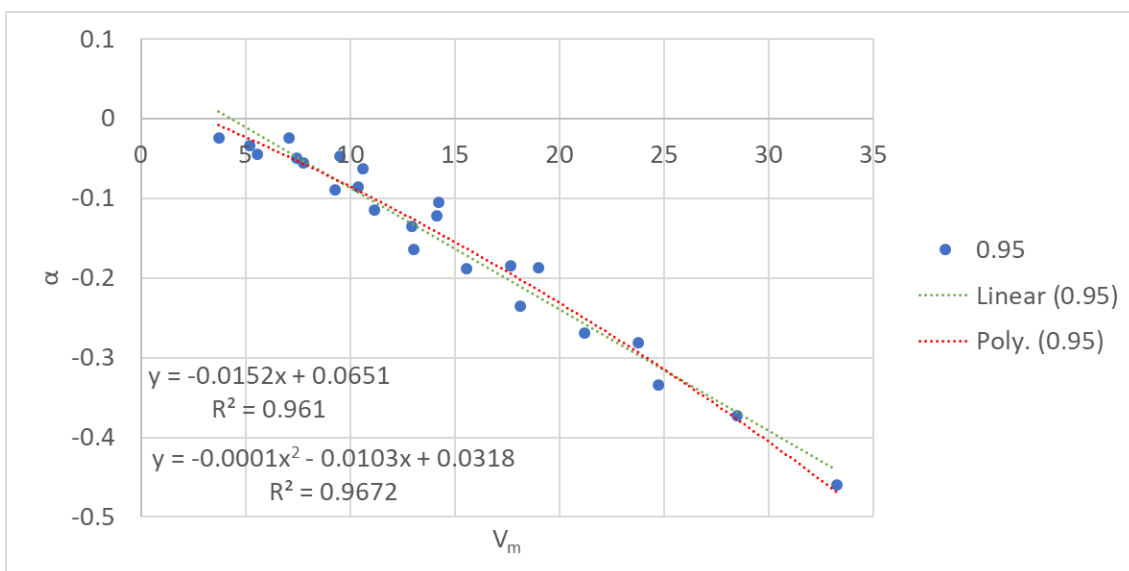
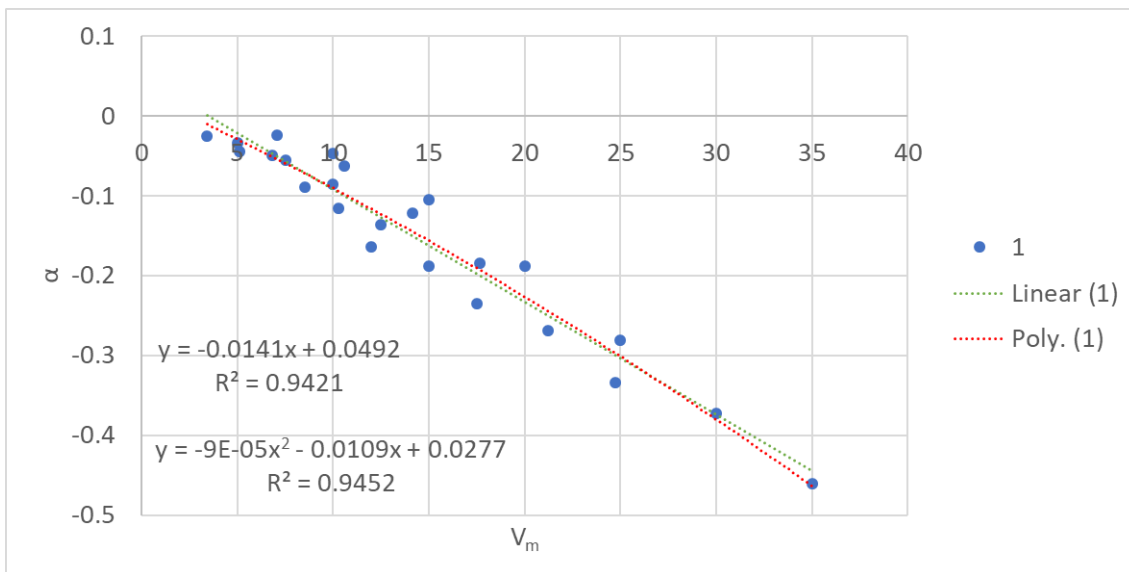
Batch ID	Cycle Number	Averaged Superficial Air Velocity in Pipeline (m/s)		Solids Loading Ratio (kg/kg)
		Start	End	
B	1	16.74	28.0	5.22
B	2	16.87	28.0	6.10
B	3	16.79	28.0	5.78
B	4	16.92	28.0	5.70
C	1	20.04	36.9	3.26
C	2	19.86	36.9	5.17
C	3	19.96	36.9	5.47
C	4	19.99	36.9	5.02
D	1	22.99	34.1	2.25
D	2	22.96	34.1	3.68
D	3	23.07	34.1	3.95
D	4	23.11	34.1	3.49
E	1	18.55	38.1	5.78
E	2	18.92	38.1	8.65
E	3	19.19	38.3	8.16
E	4	18.96	38.3	8.39
E	5	19.14	38.3	8.58
E	6	18.58	38.3	8.95
F	1	19.45	25.7	0.64
F	2	18.88	25.7	2.74
F	3	21.48	25.7	1.23
F	4	21.48	25.7	1.32
F	5	21.63	25.7	1.15

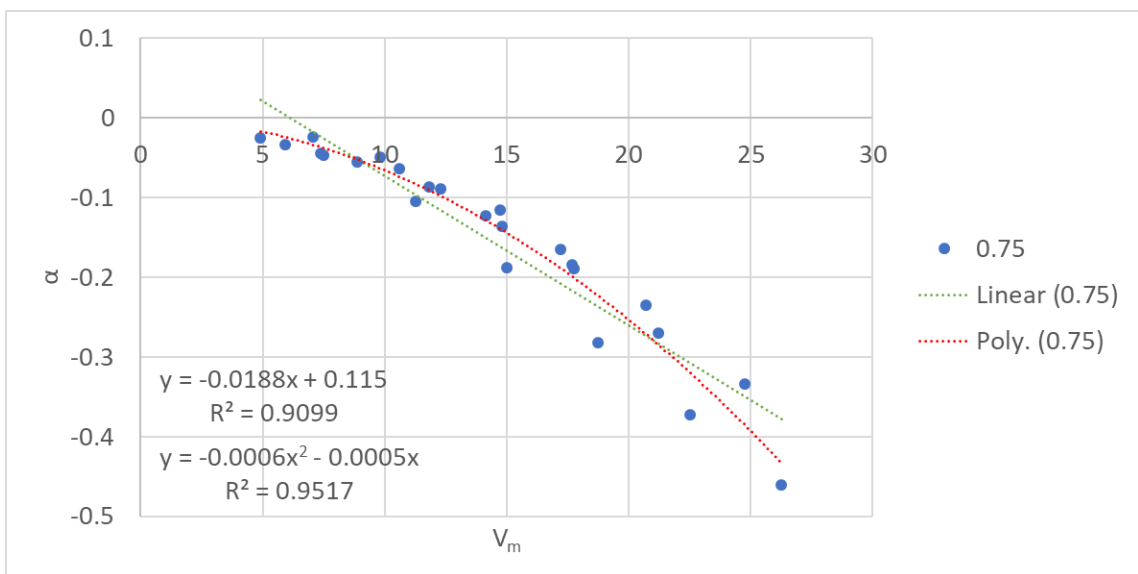
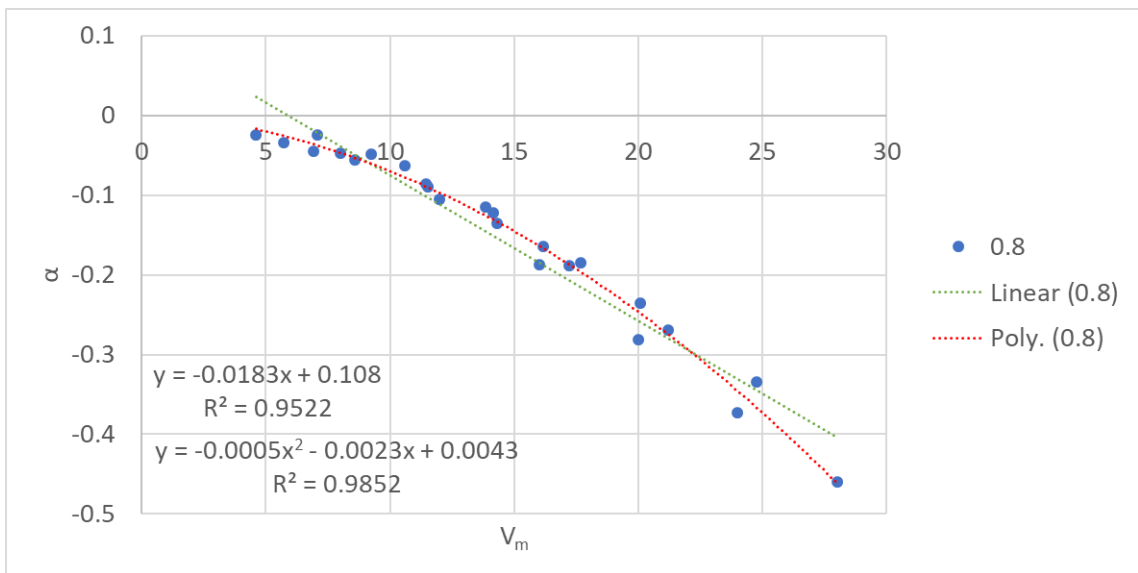
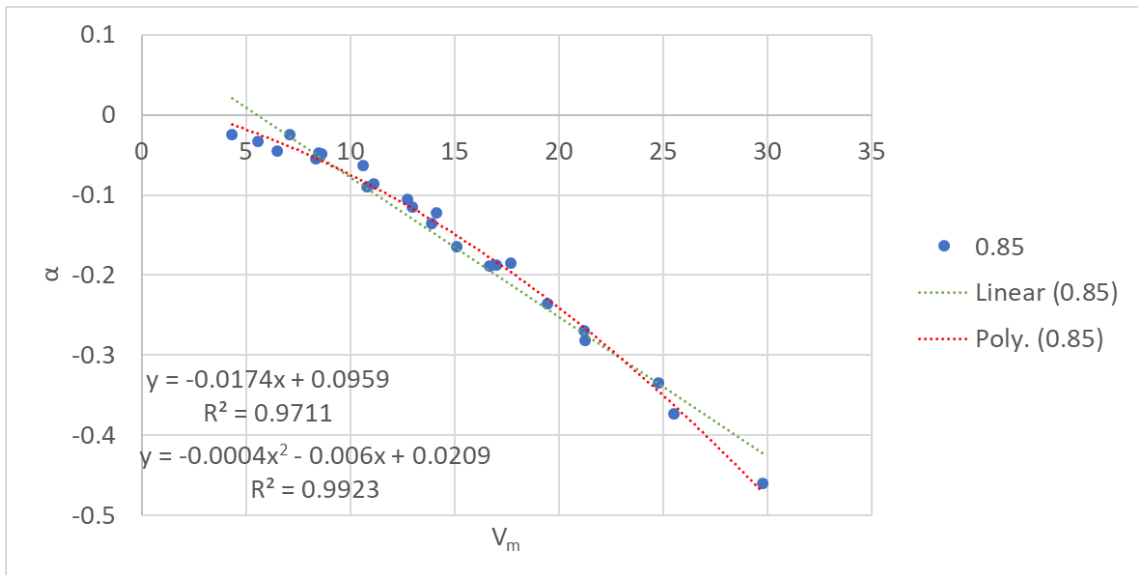
APPENDIX H: Modelling Curves for Variation in the Value of β

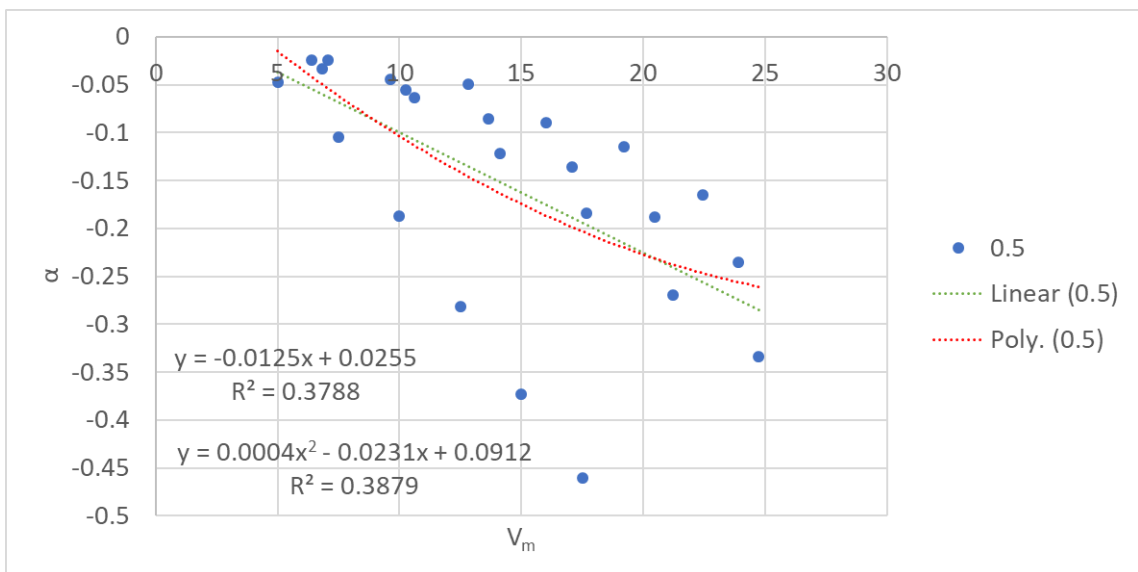
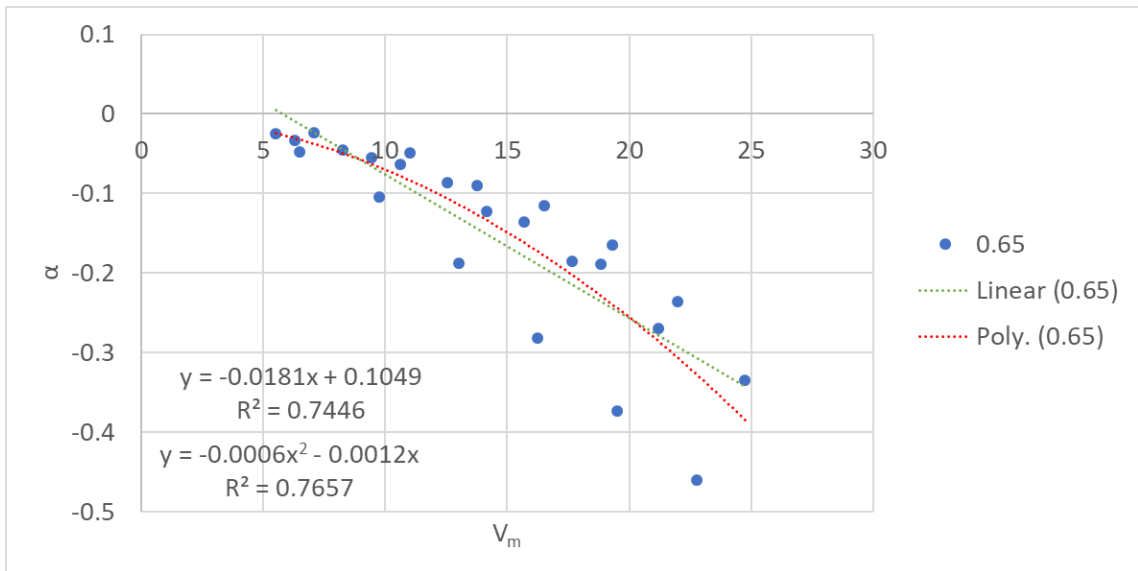
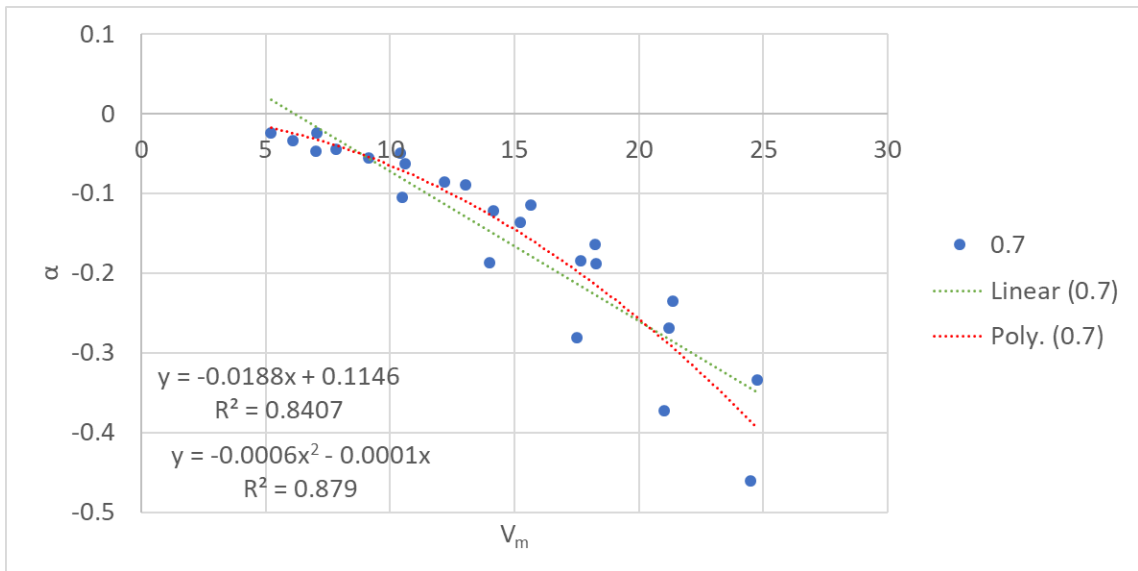
This Appendix contains all of the curve fitting work performed as part of the research. The conditions are presented in the Section titles, with the value of β specified in the legend of each figure.

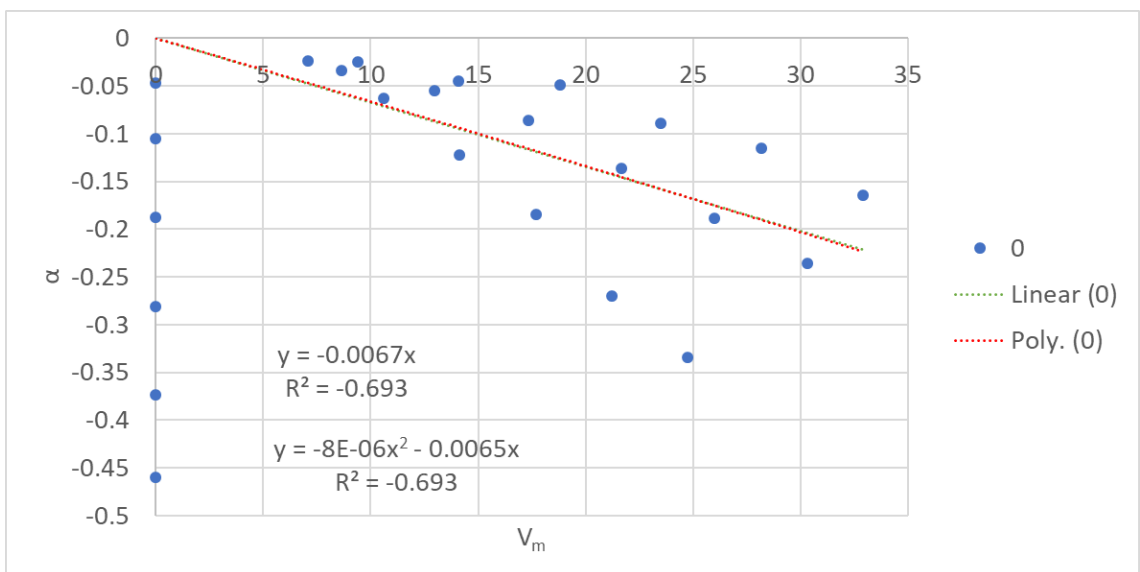
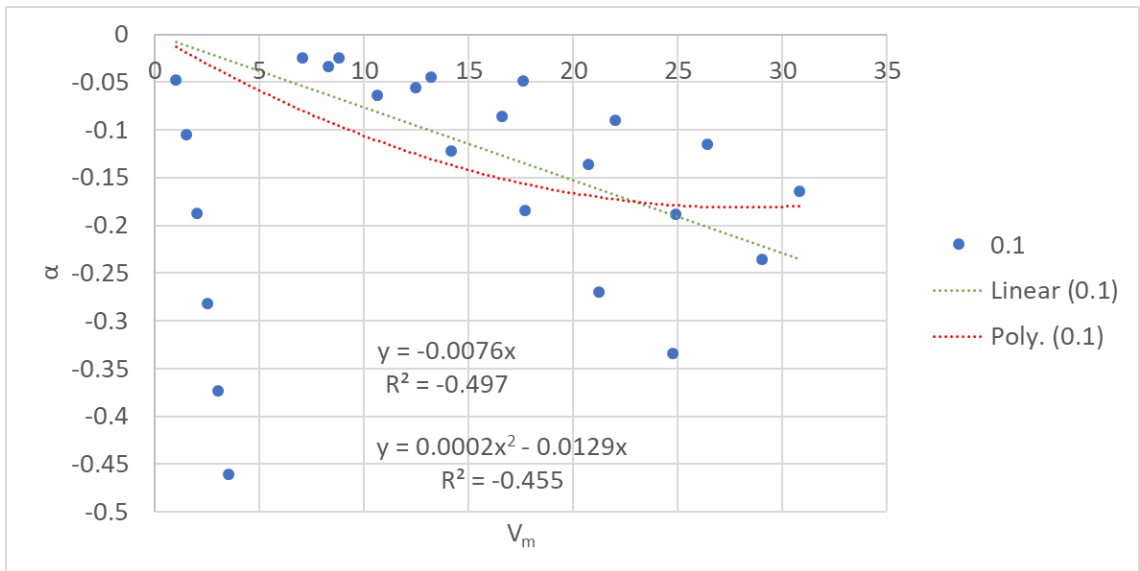
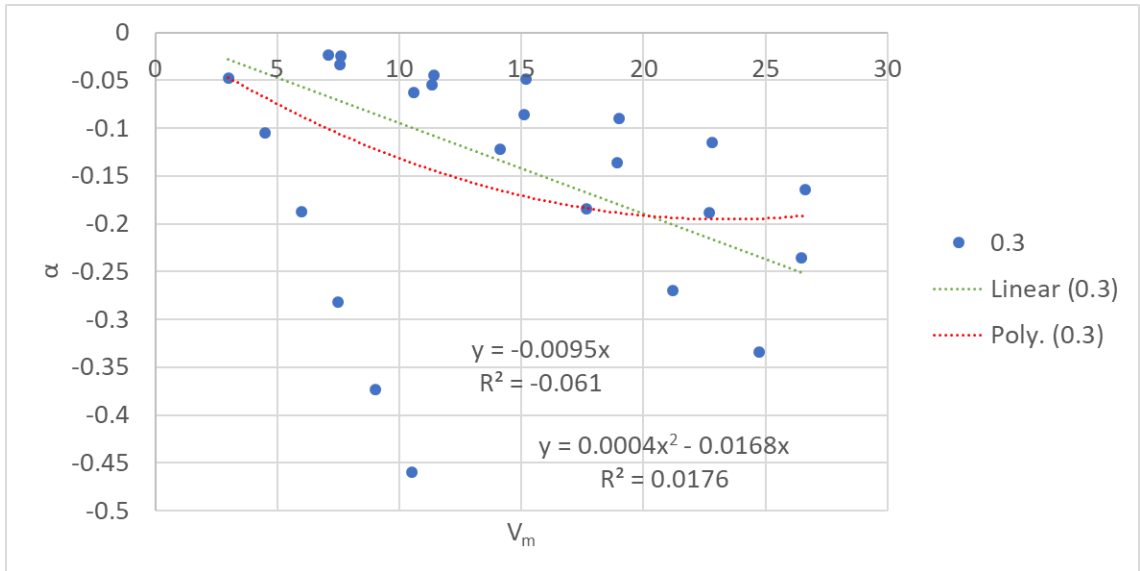
H.1 Particle Breakage – Mass Loss from a Sieve Size Fraction

H.1.1 710 – 1000 μm Primary Size Fraction

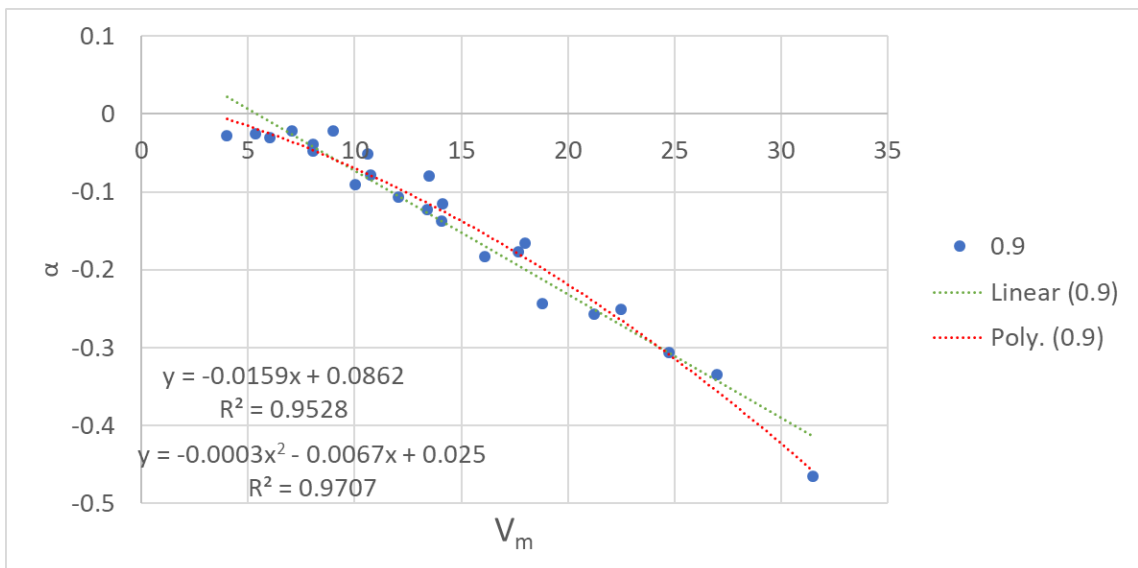
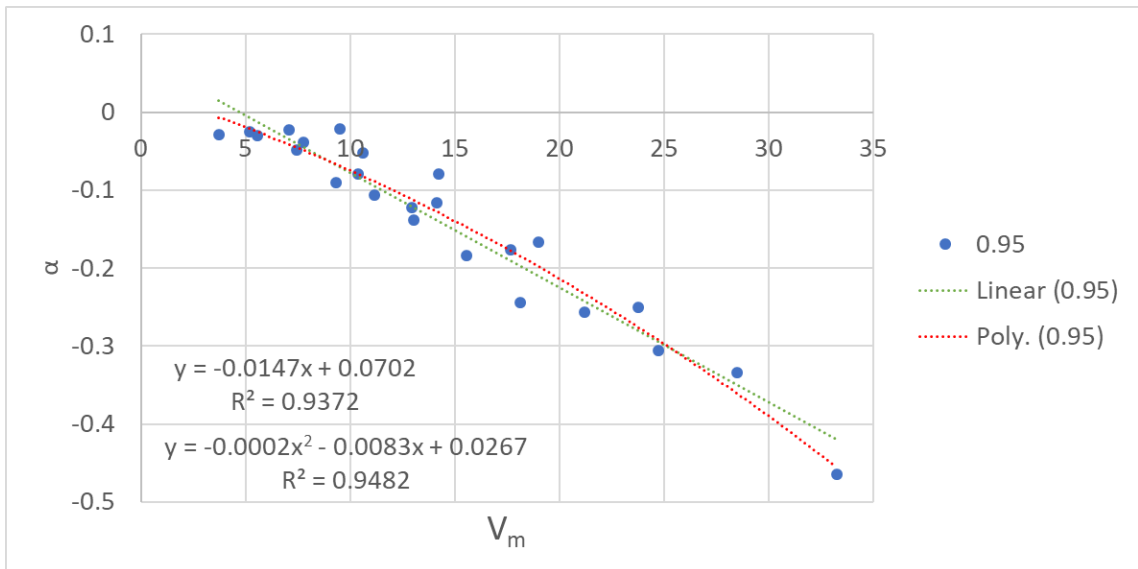
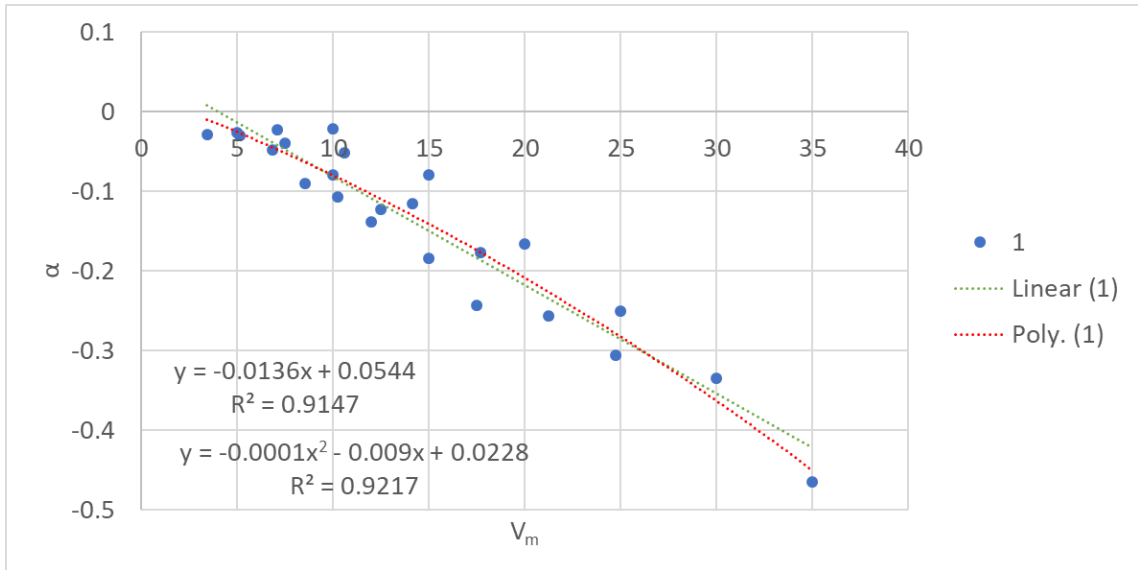


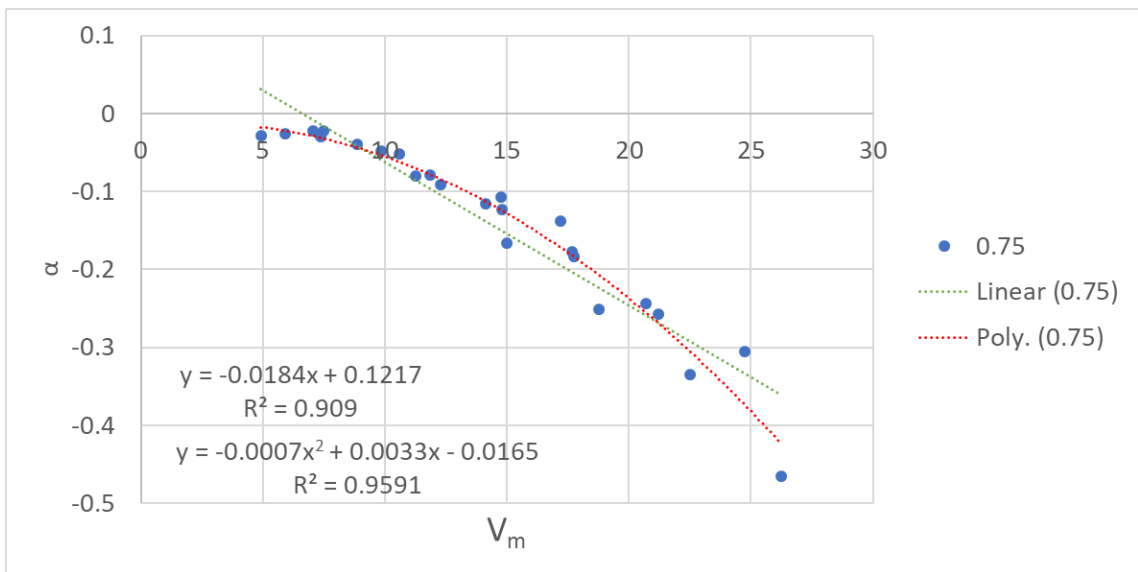
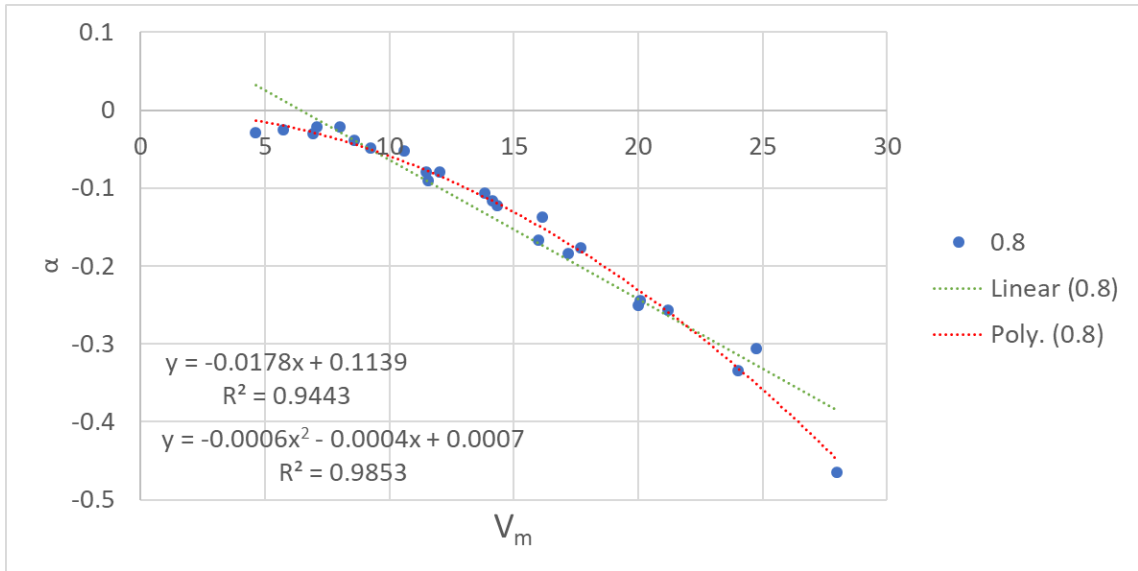
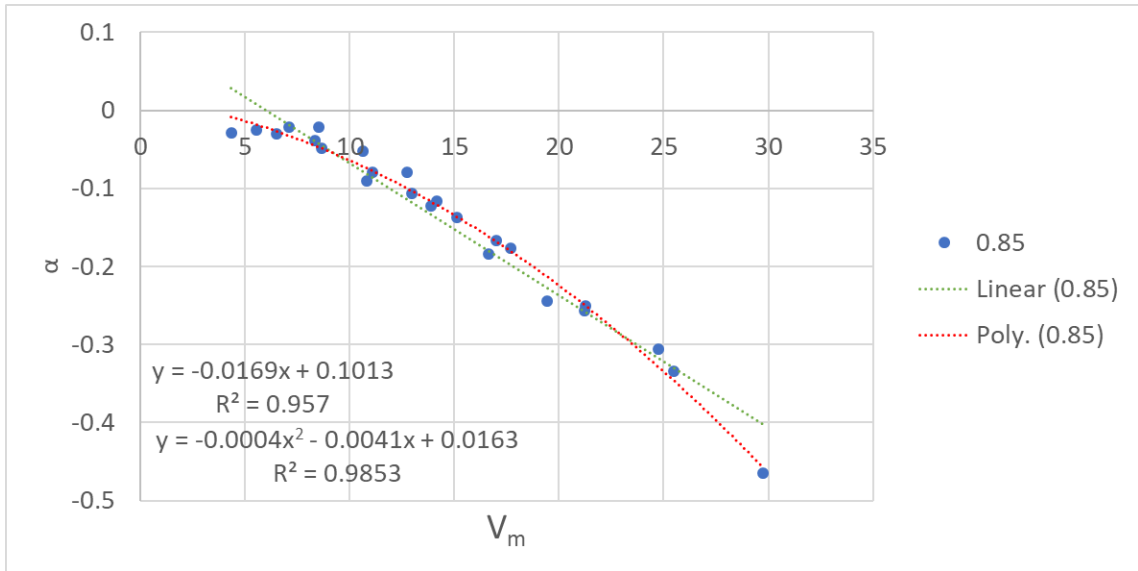


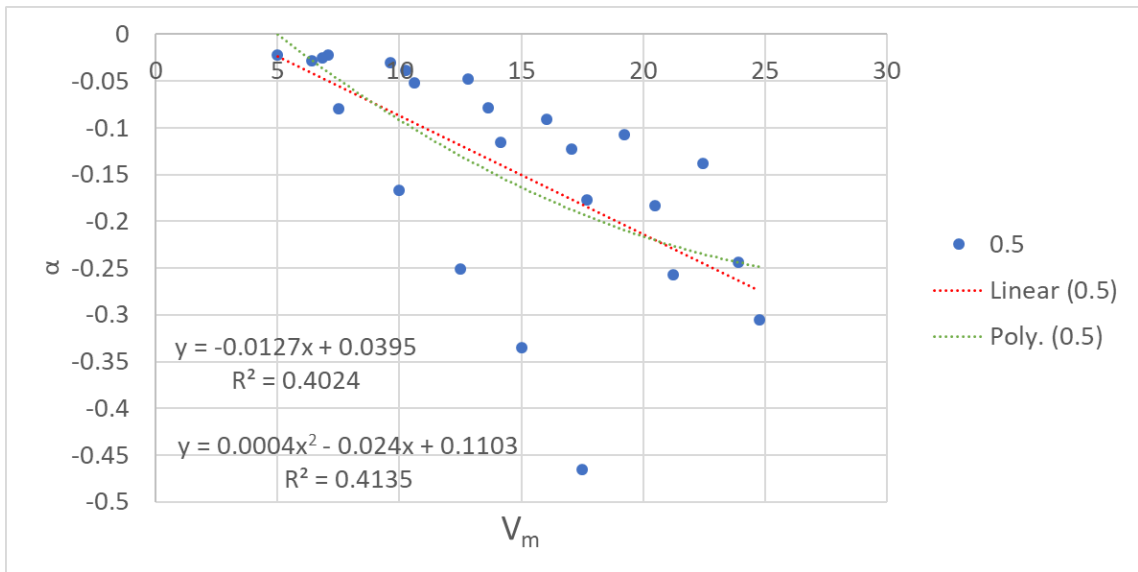
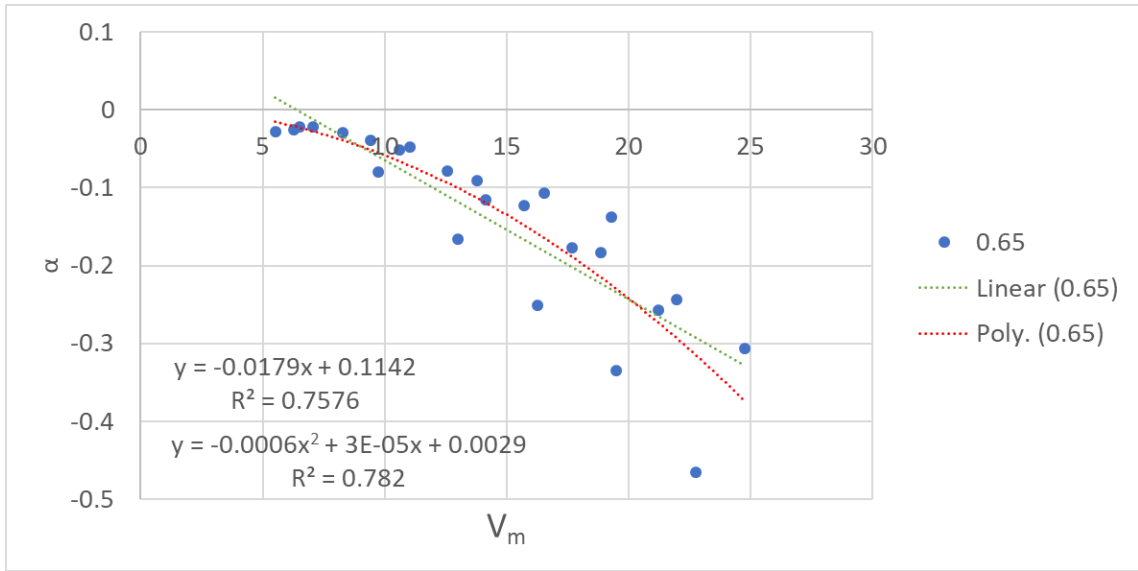
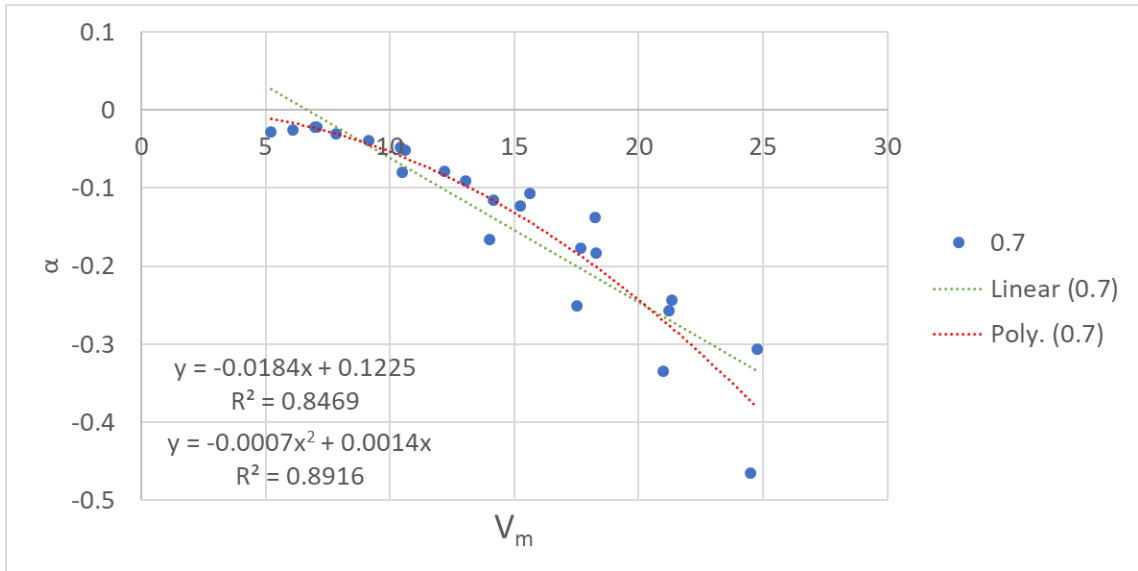


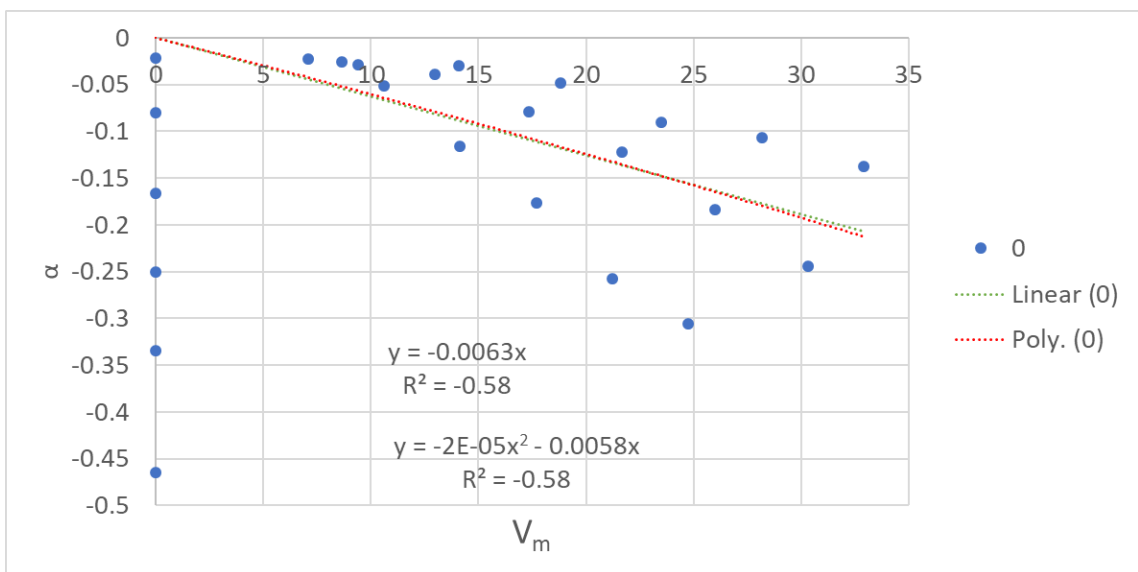
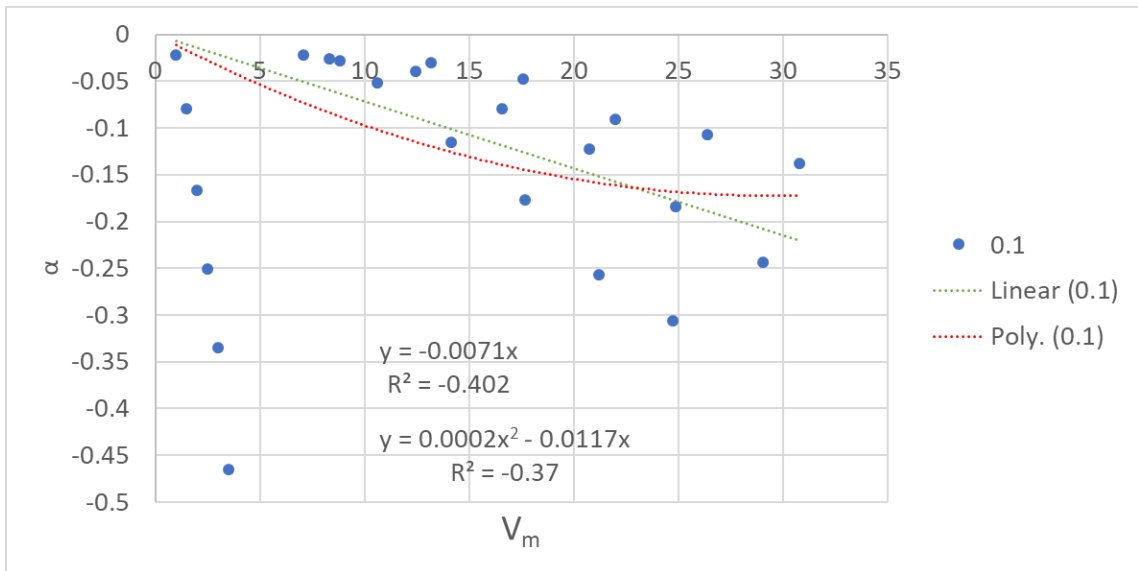
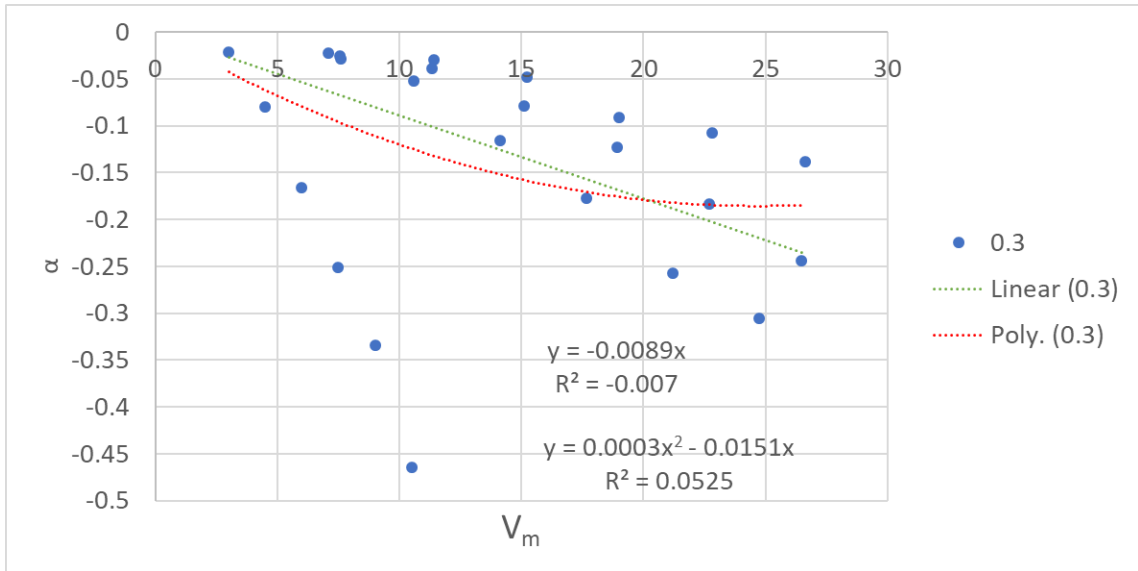


H.1.2 500 - 710 μm Primary Size Fraction

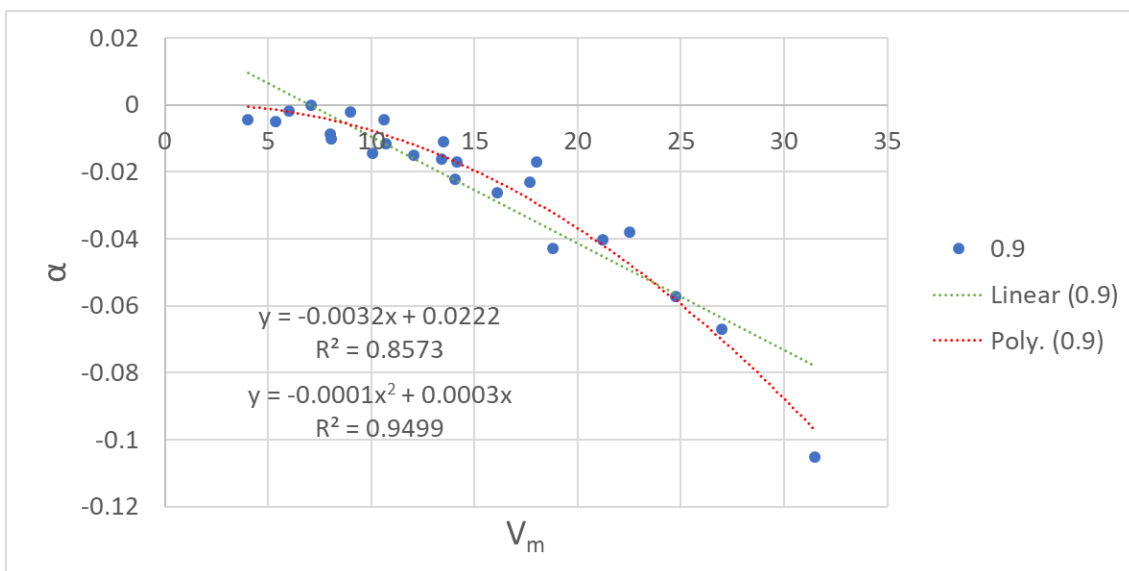
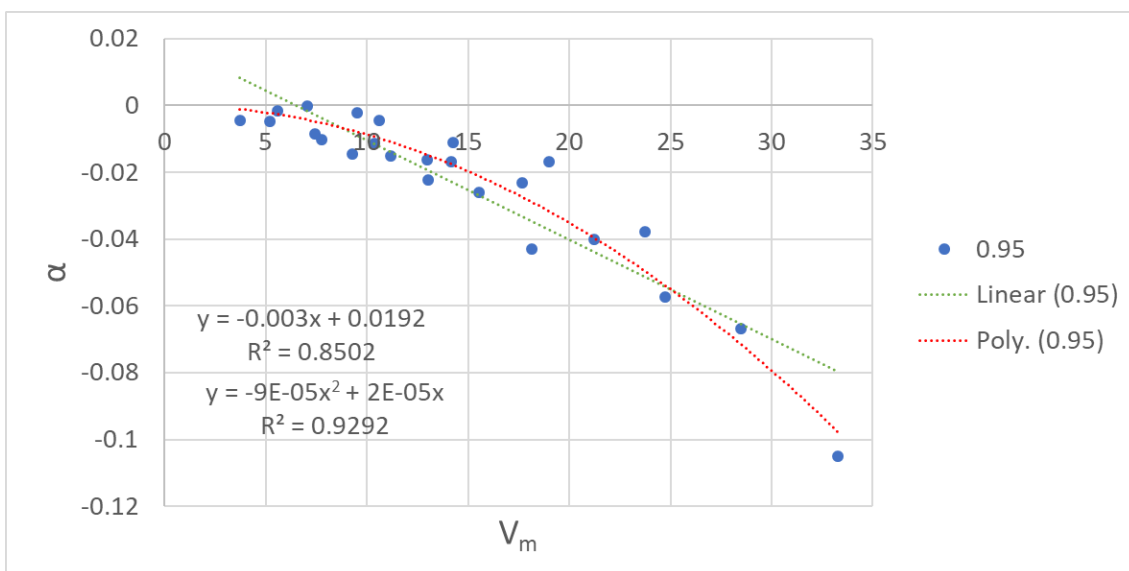
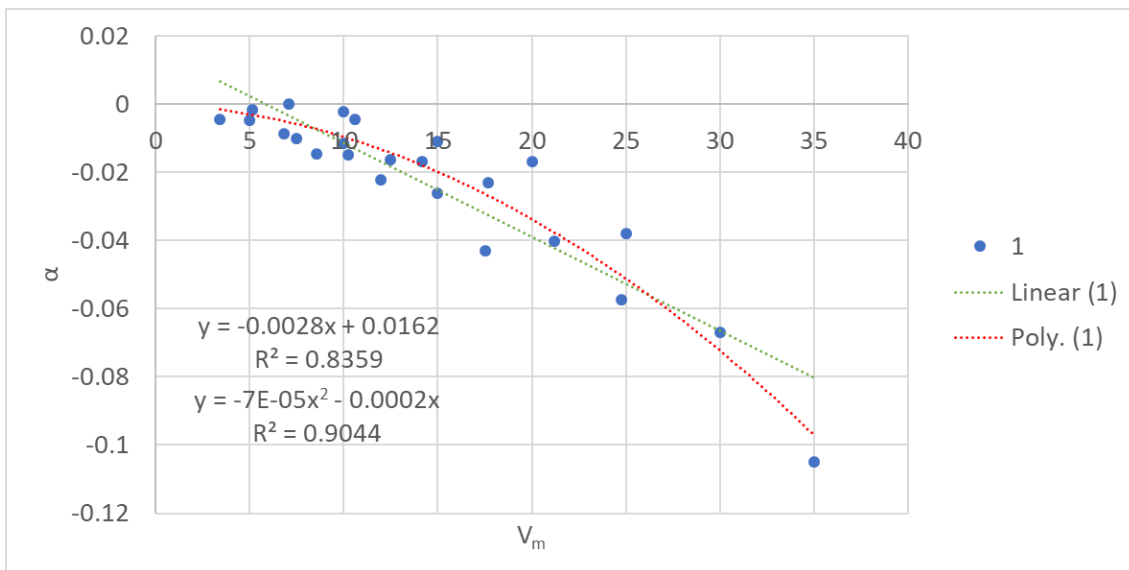


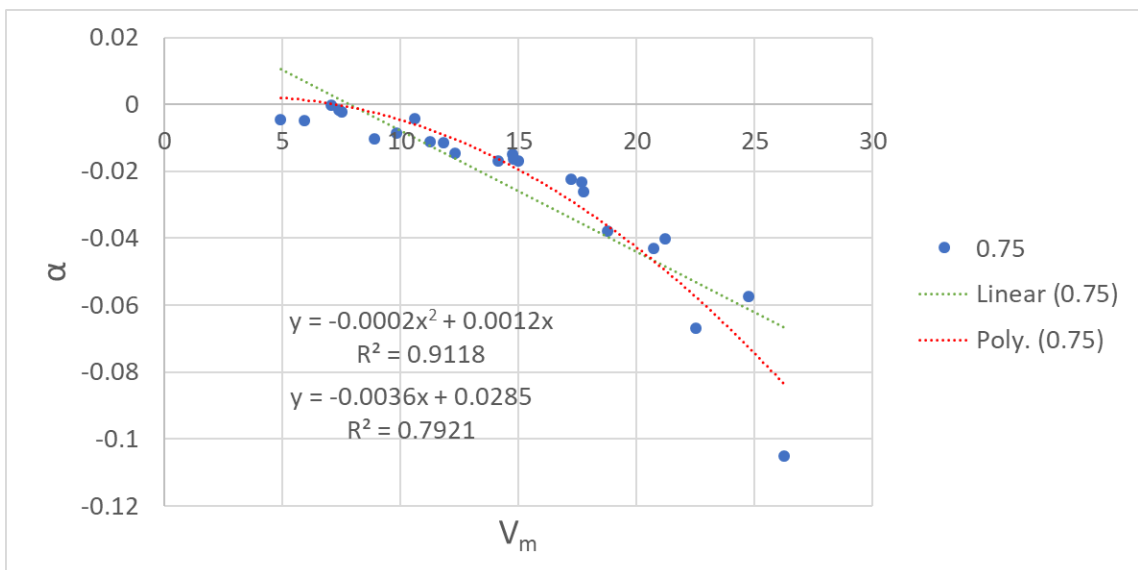
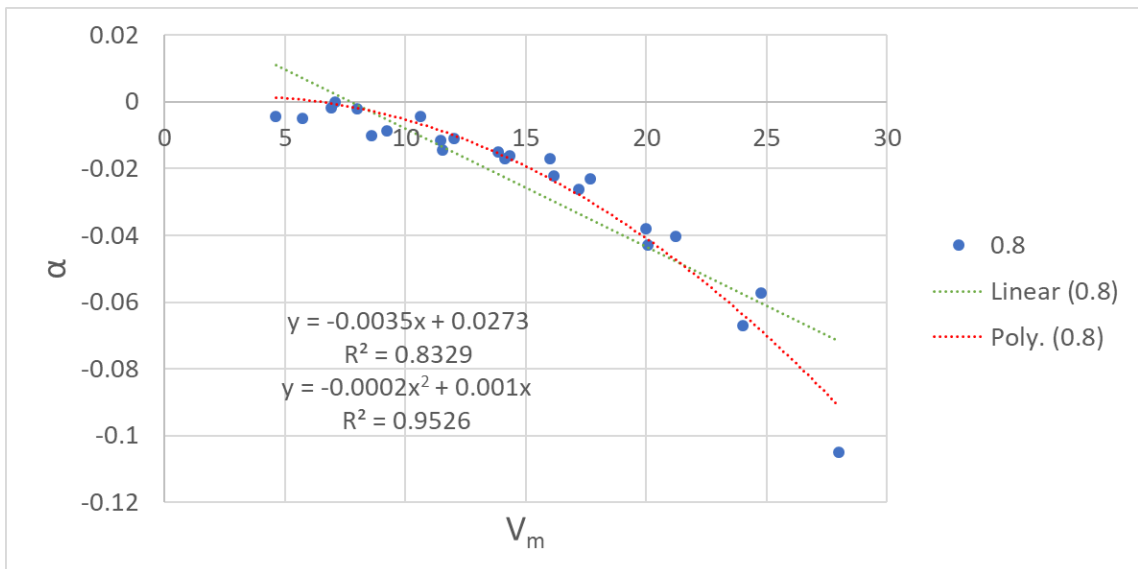
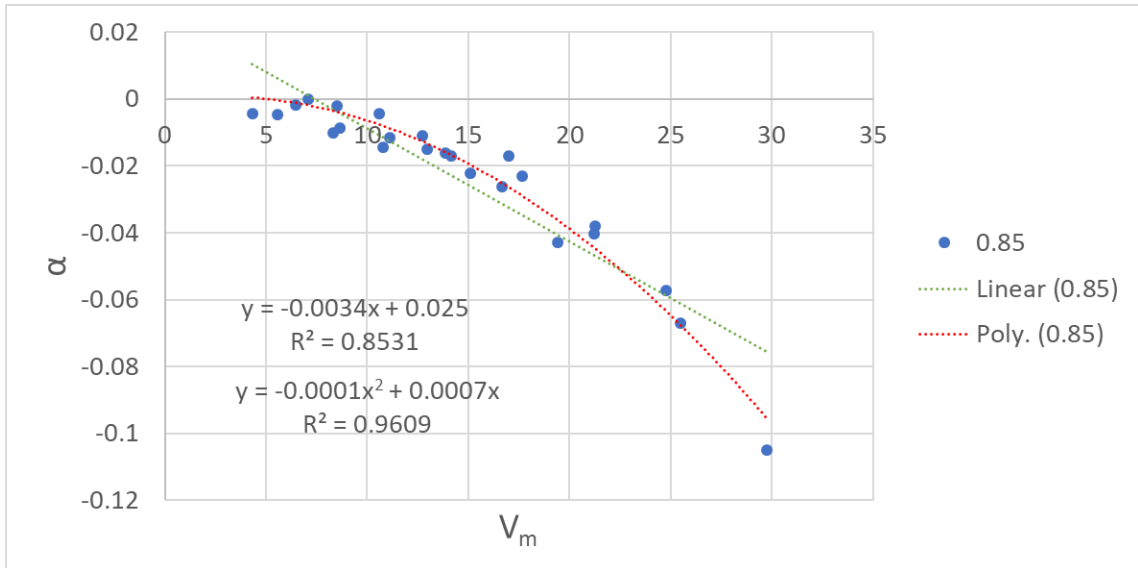


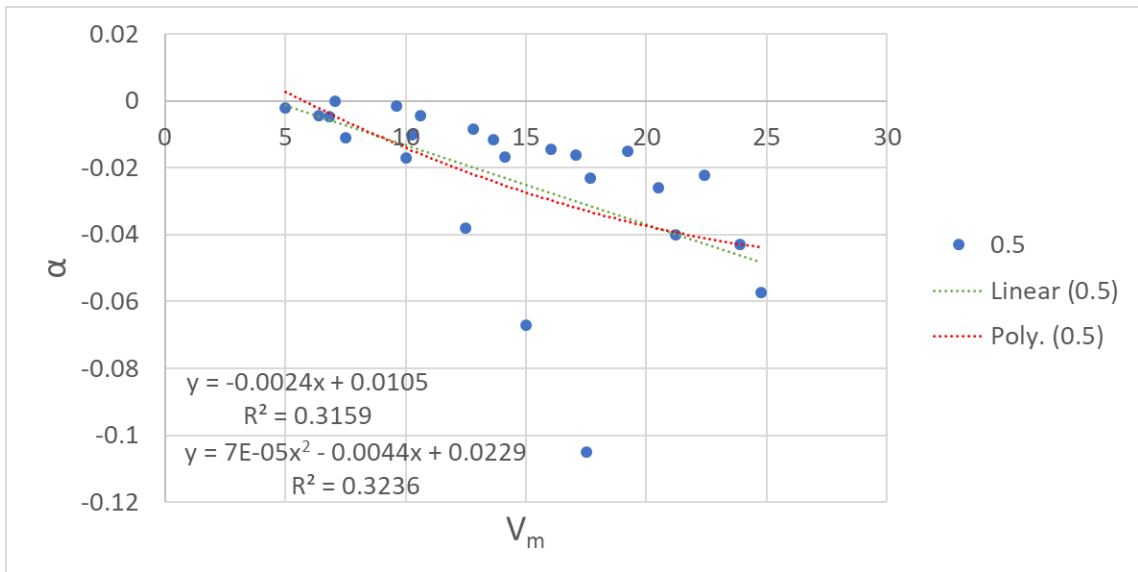
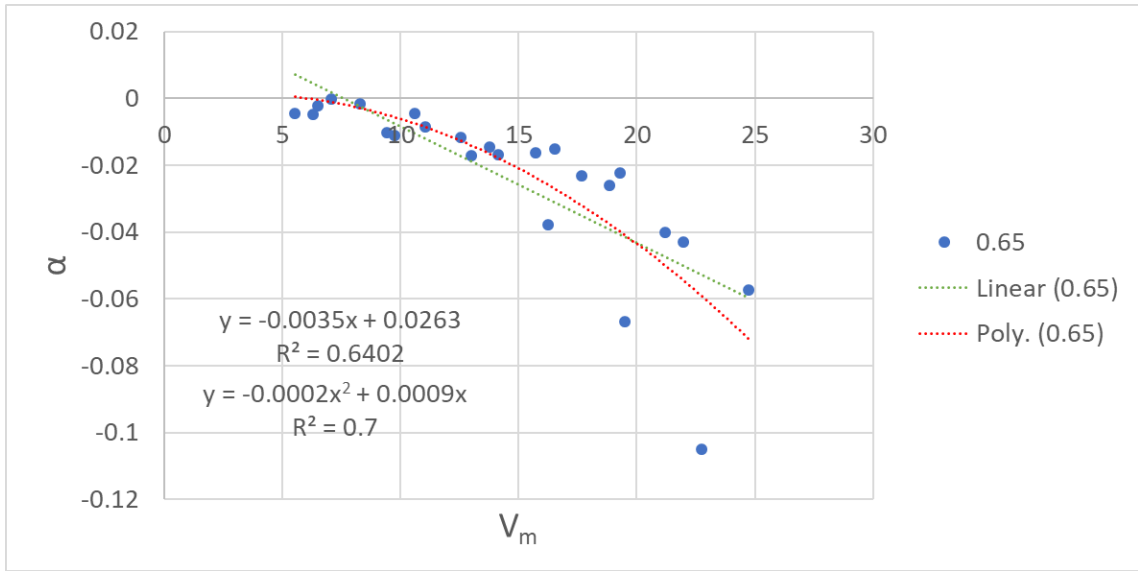
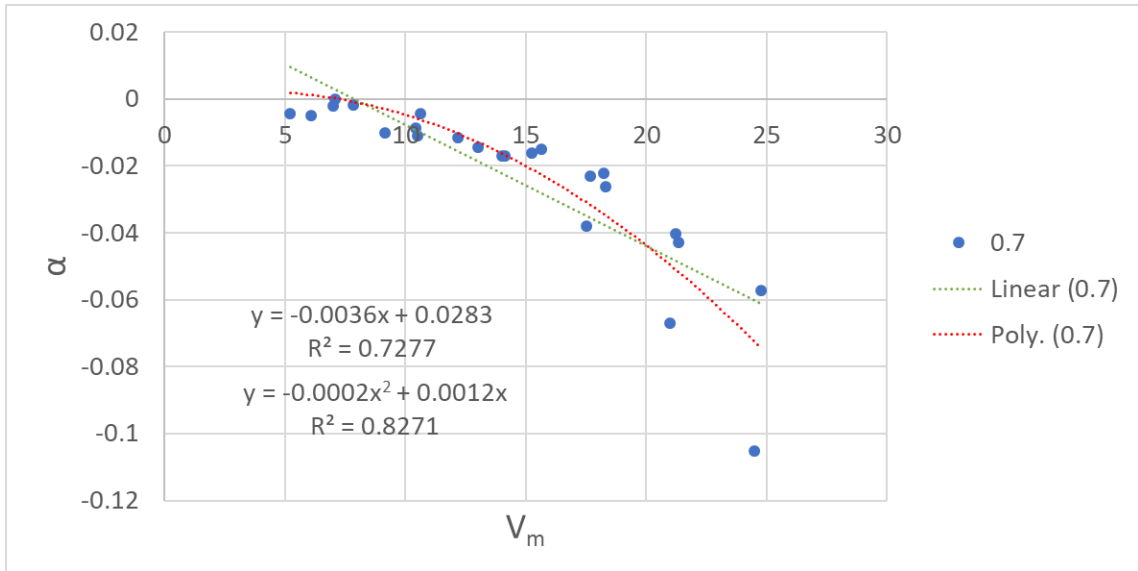


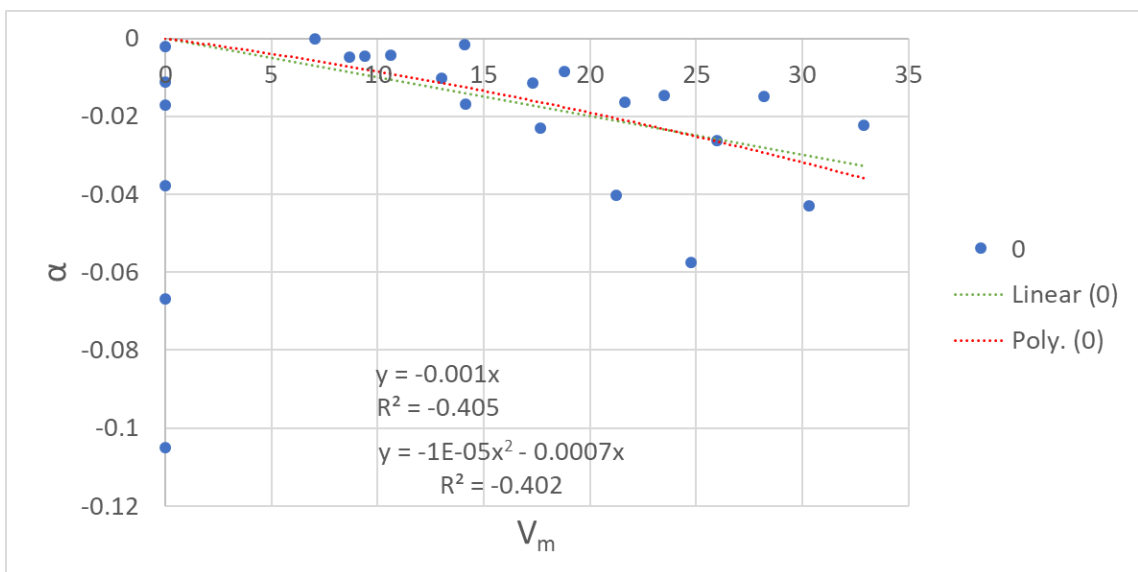
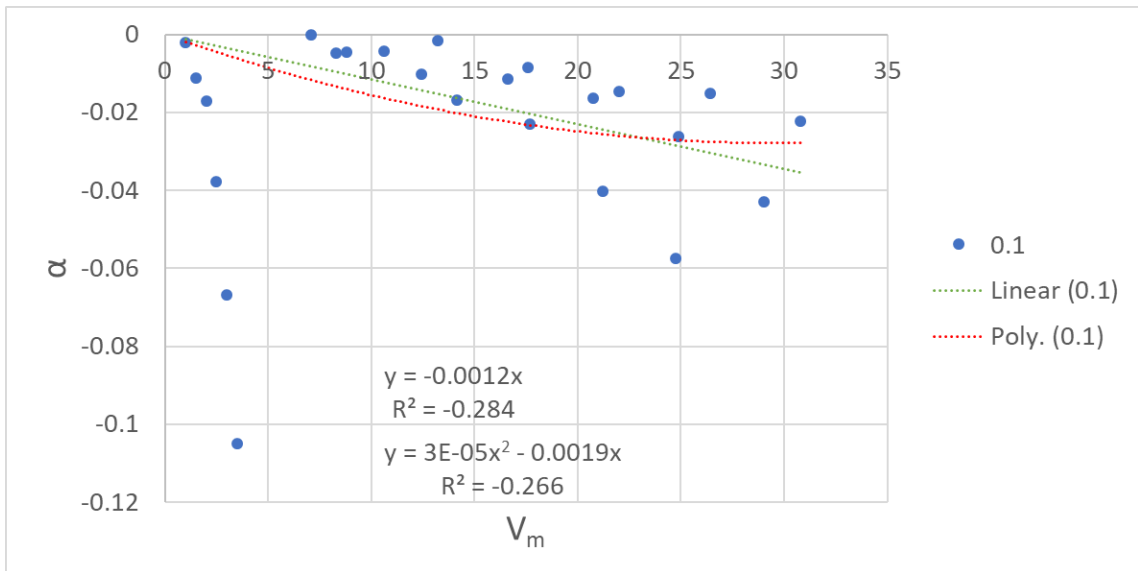
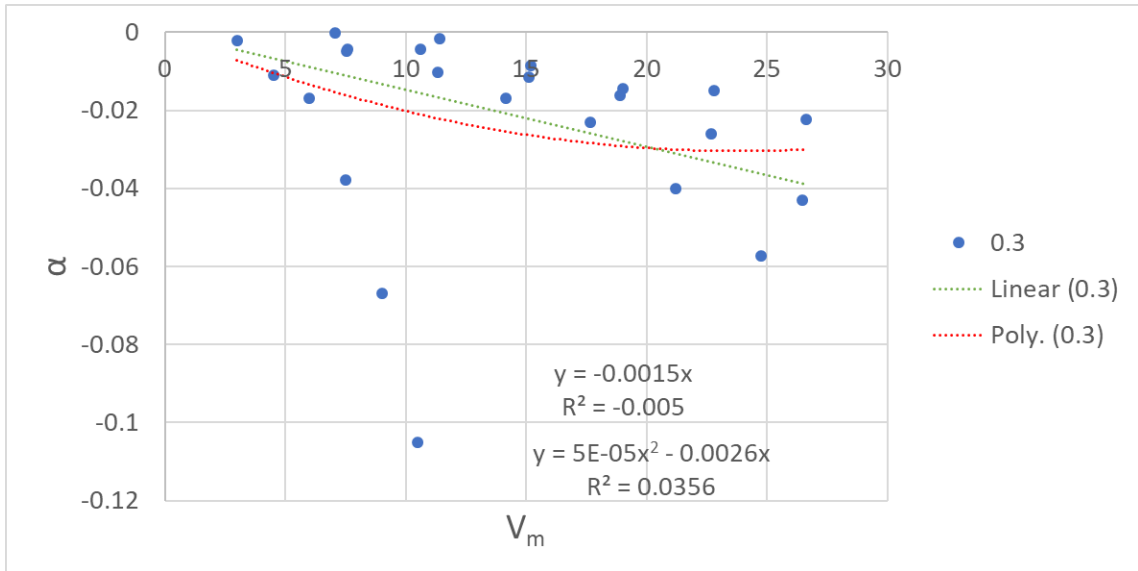


H.1.3 355 - 500 μm Primary Size Fraction



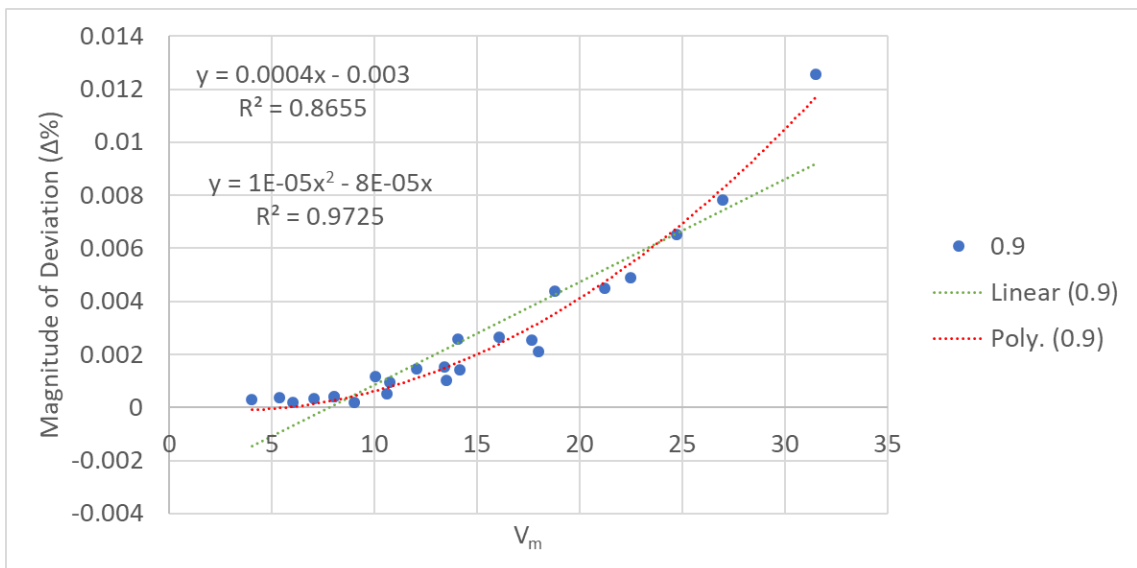
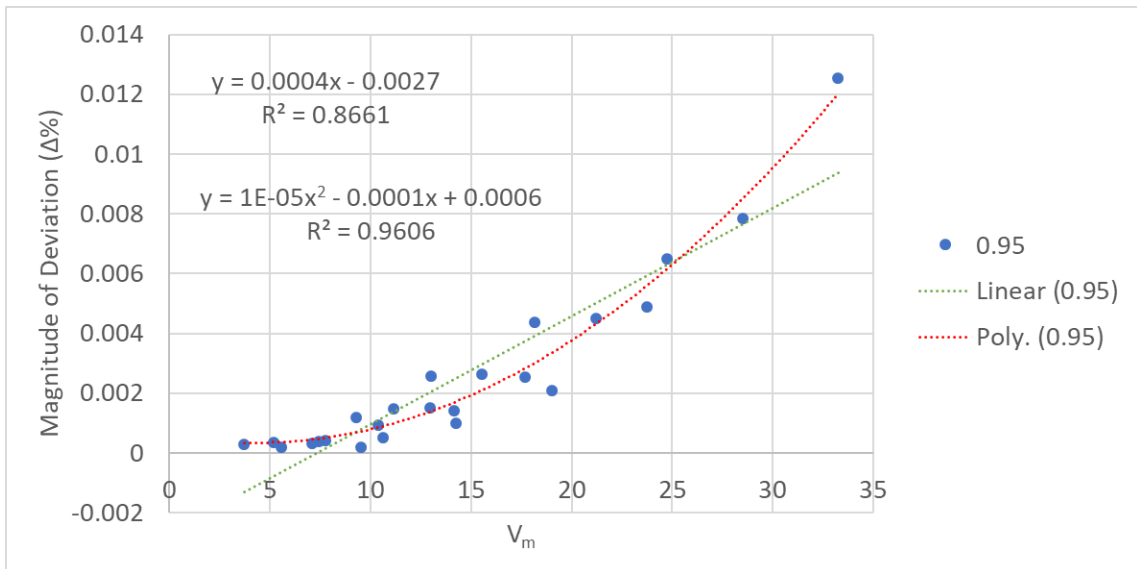
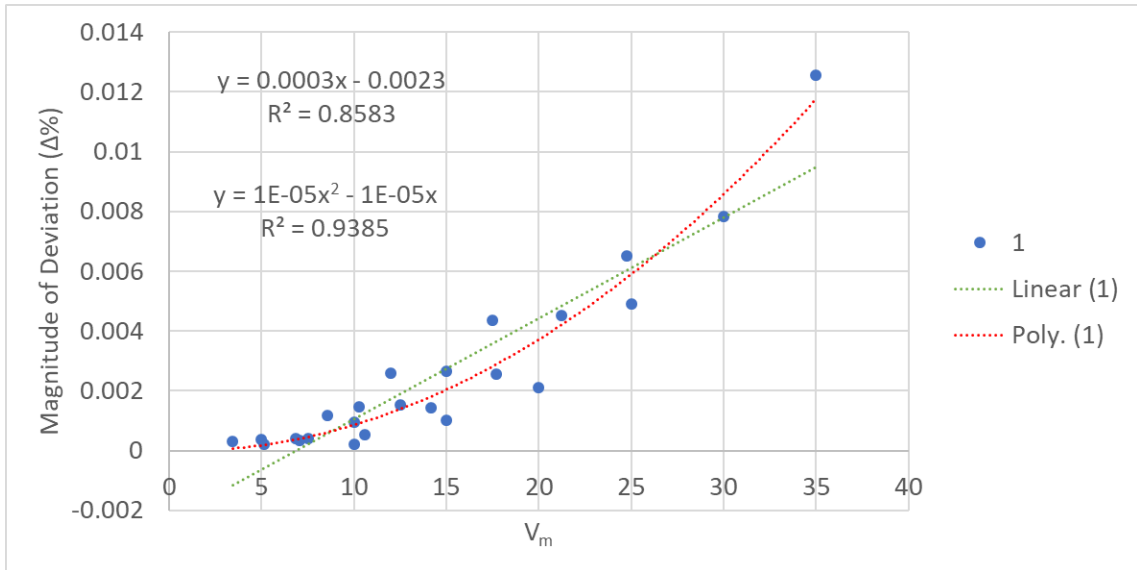


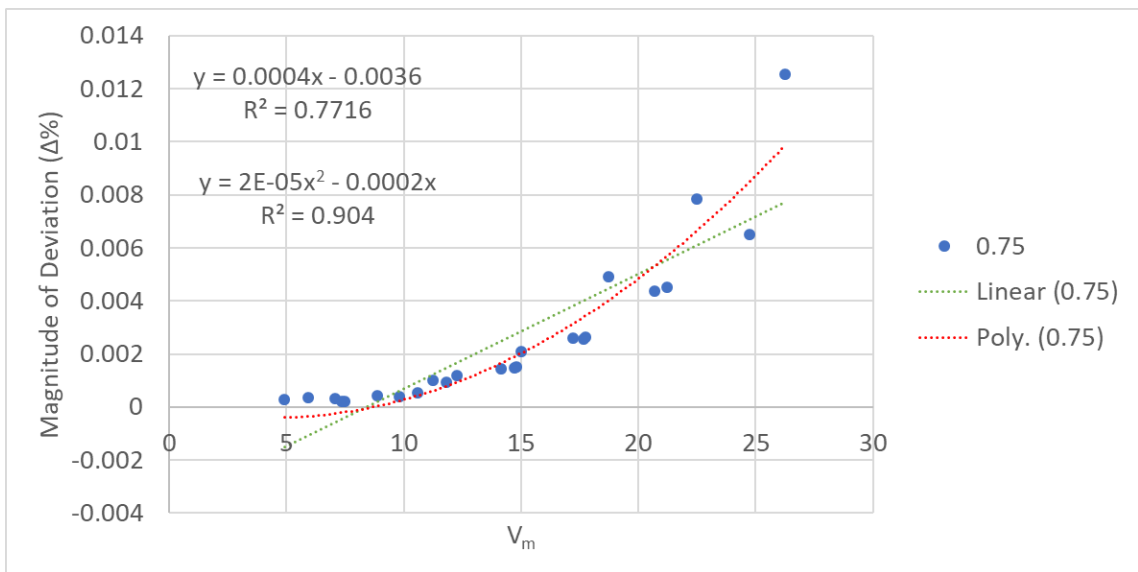
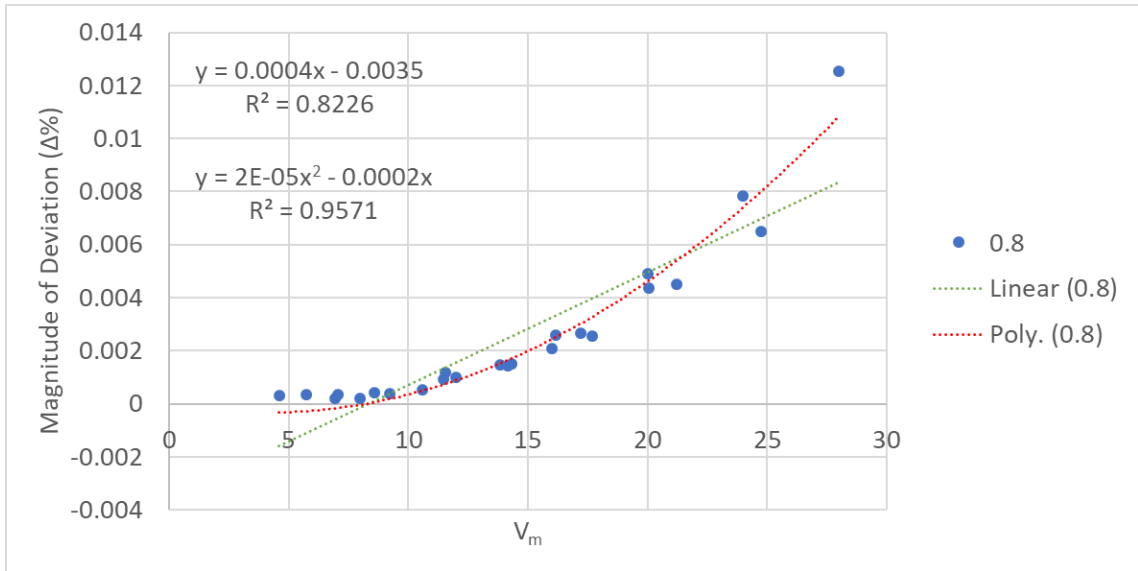
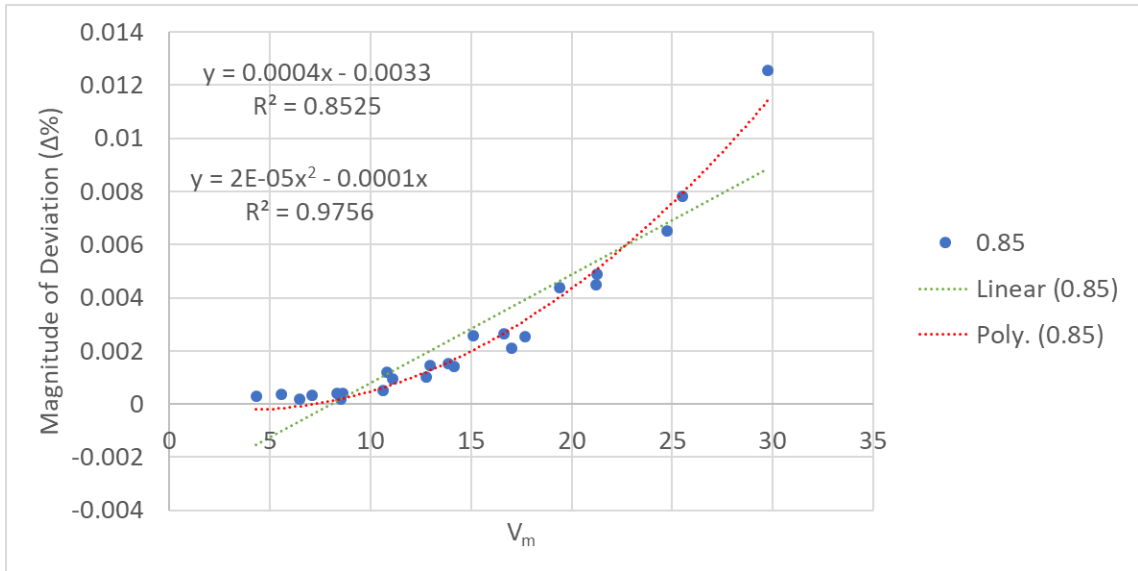


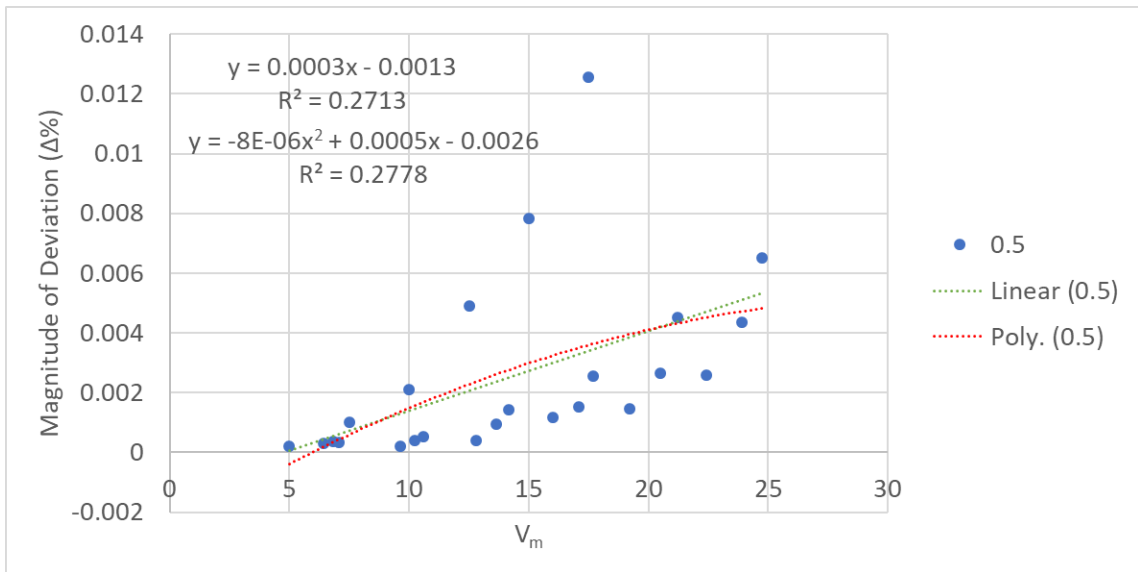
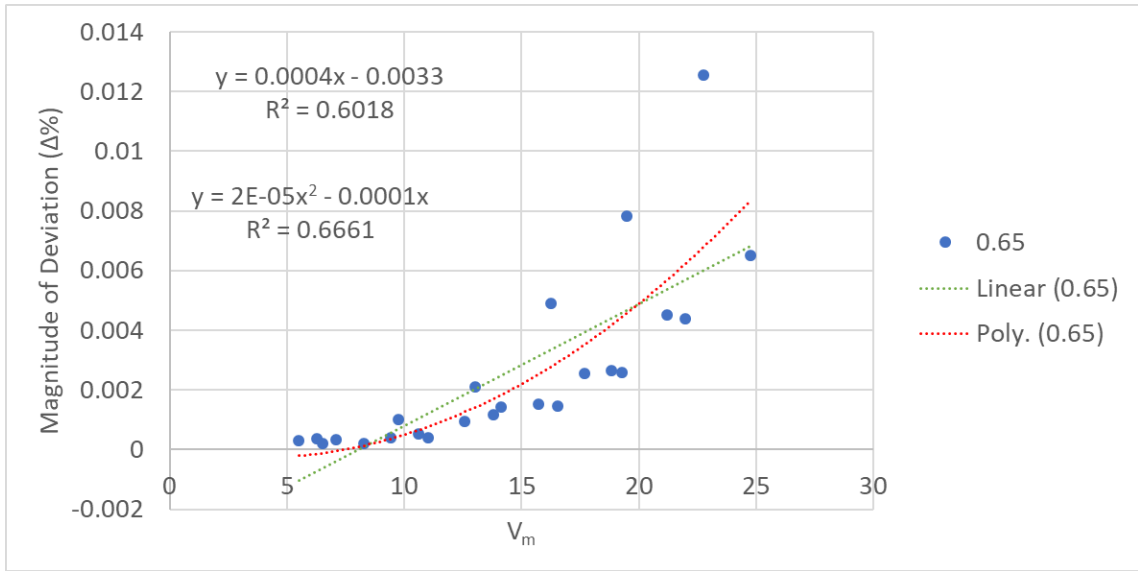
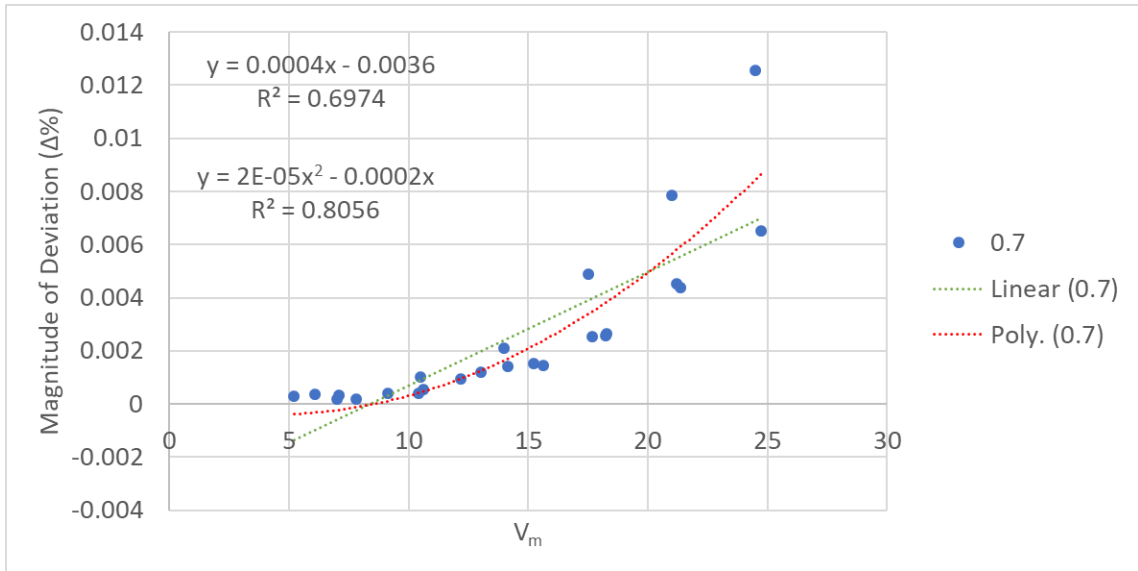


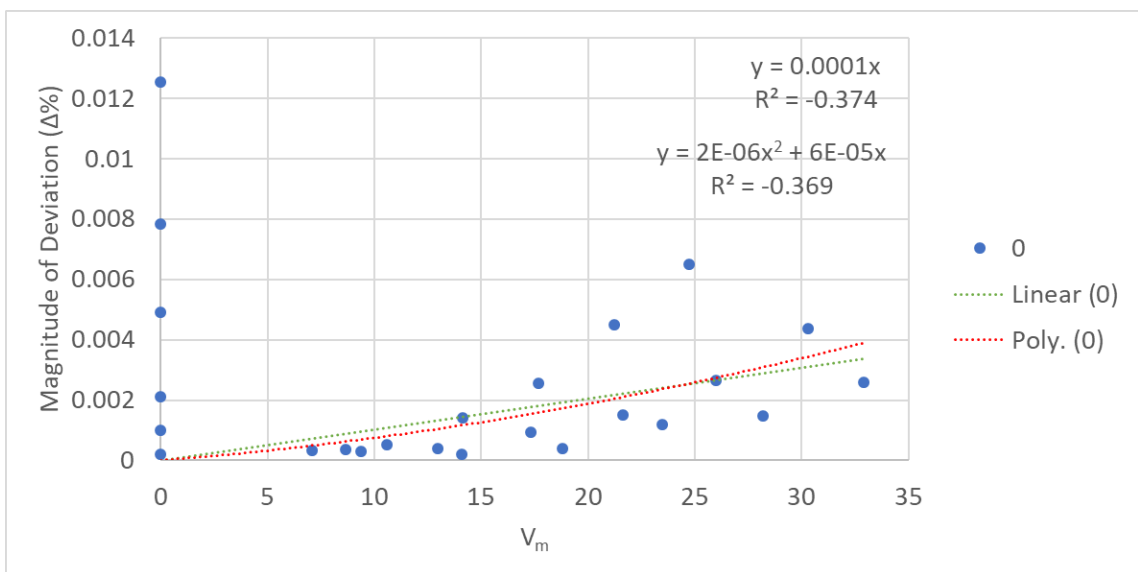
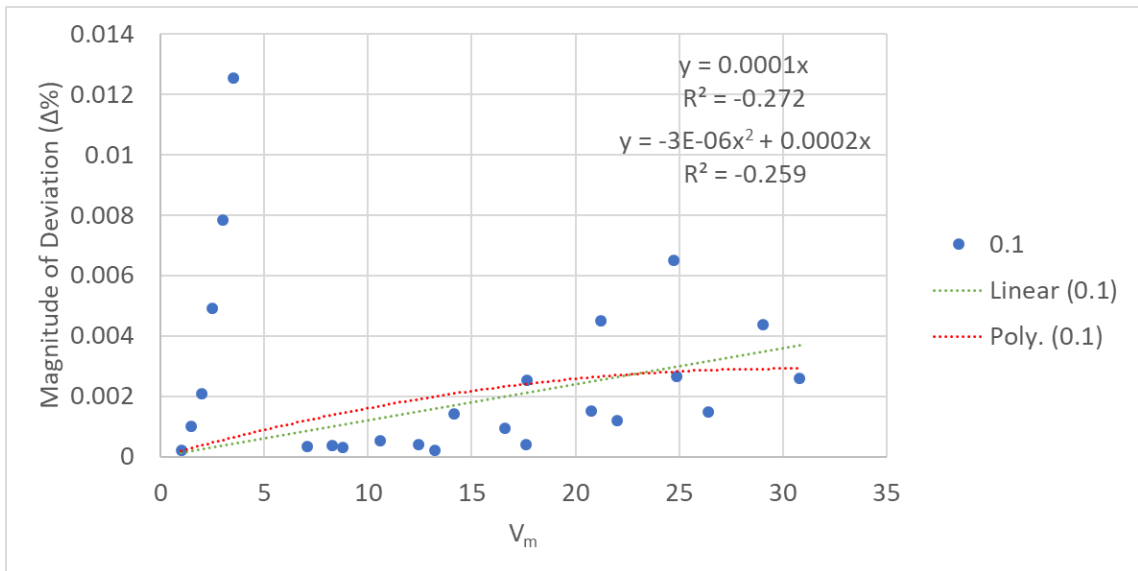
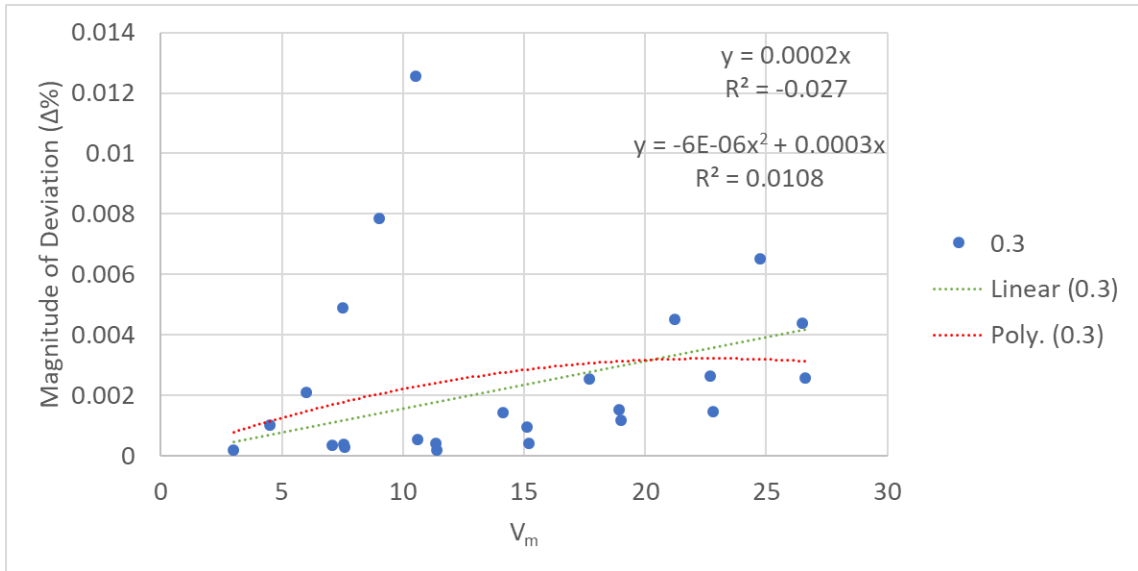
H.2 Particle Addition – Mass Increase into a Sieve Size Fraction (180 μm Sieve)

H.2.1 710 – 1000 μm Primary Size Fraction

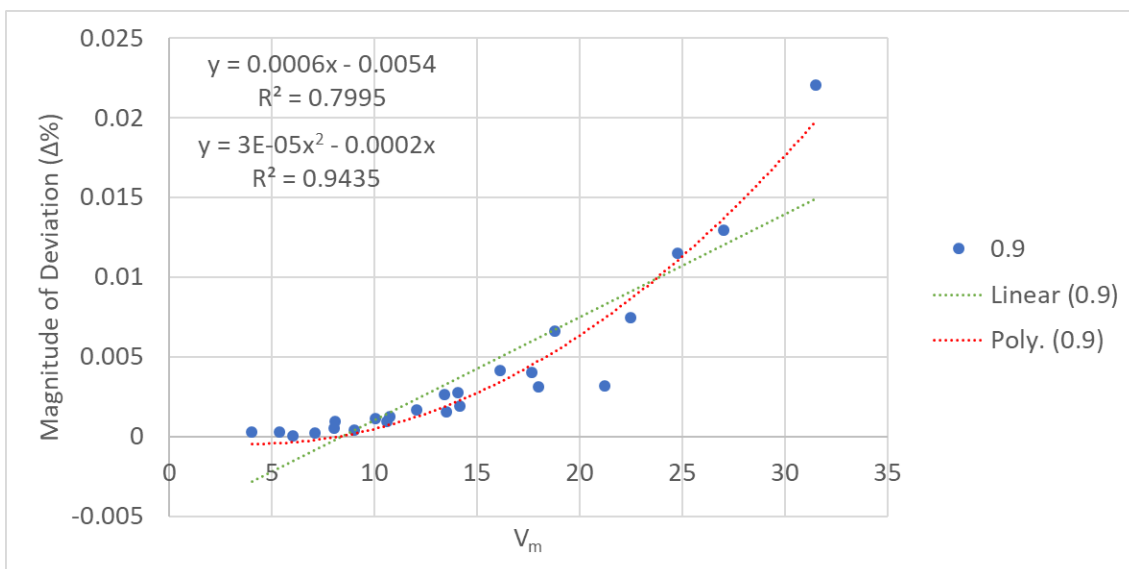
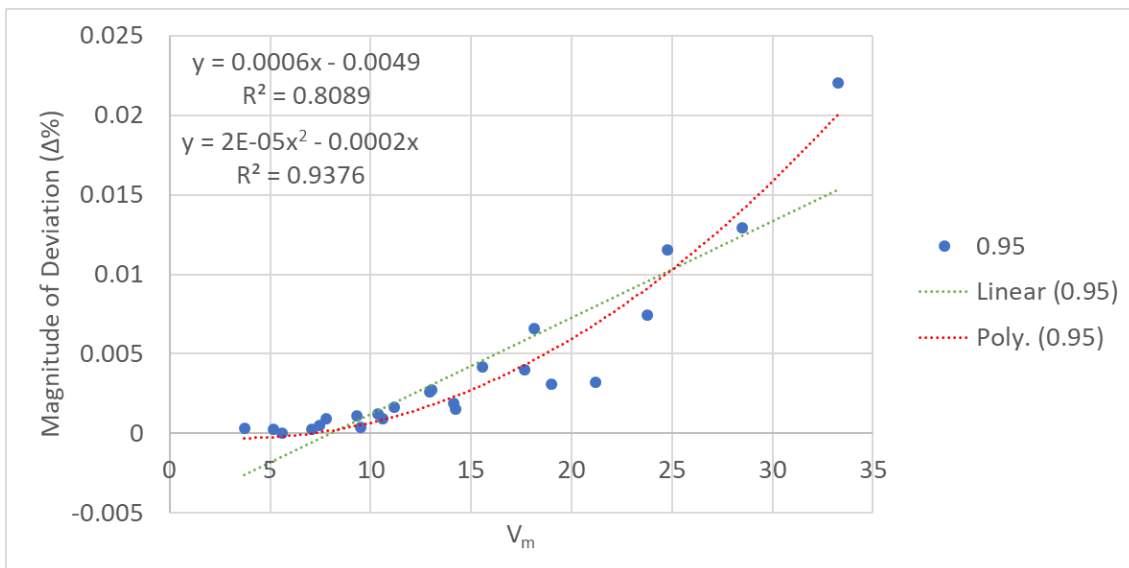
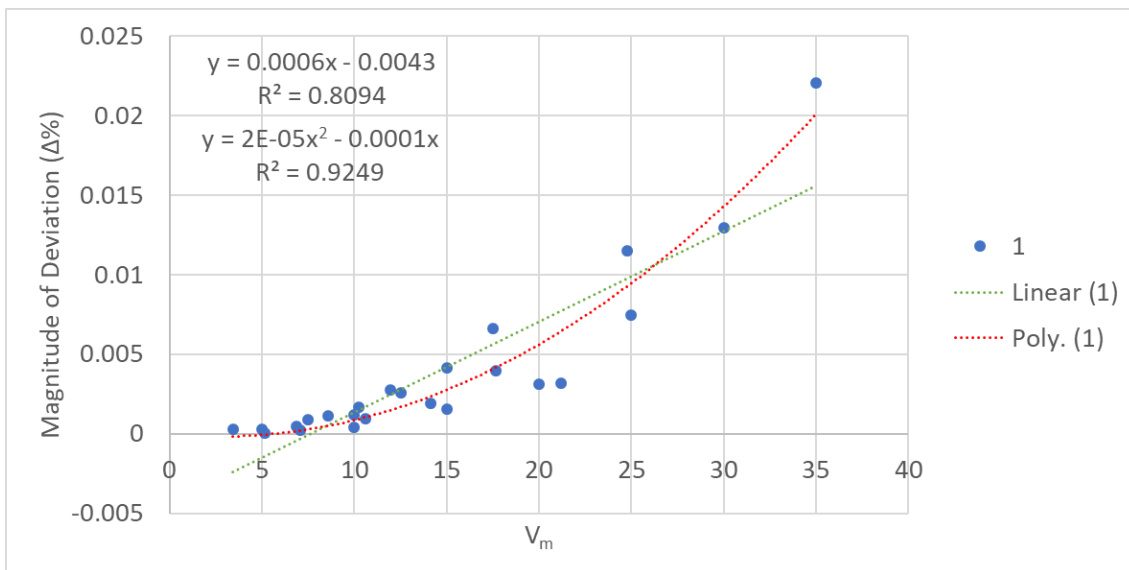


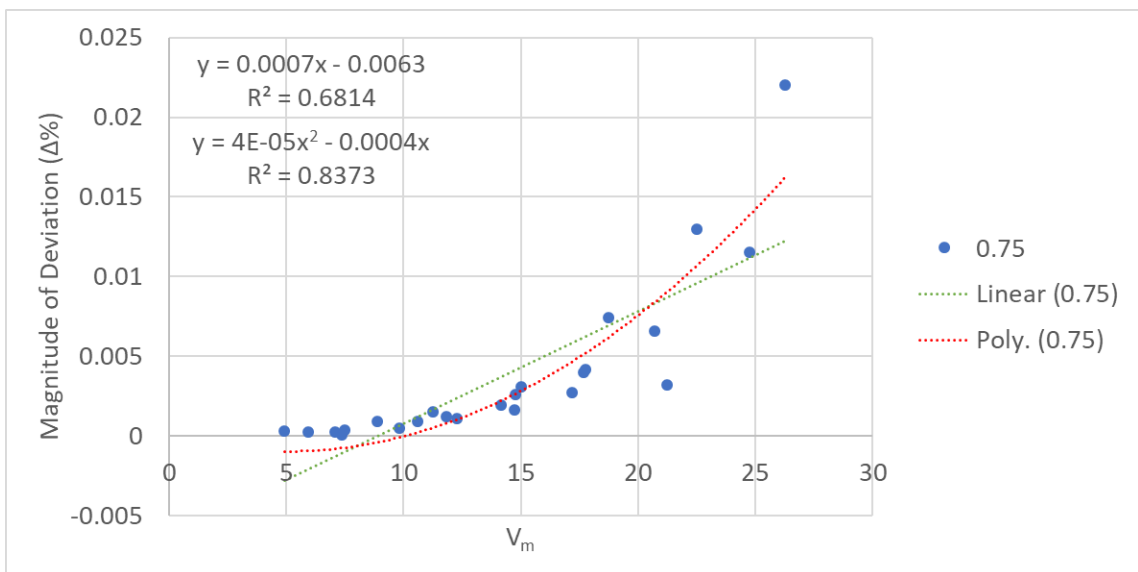
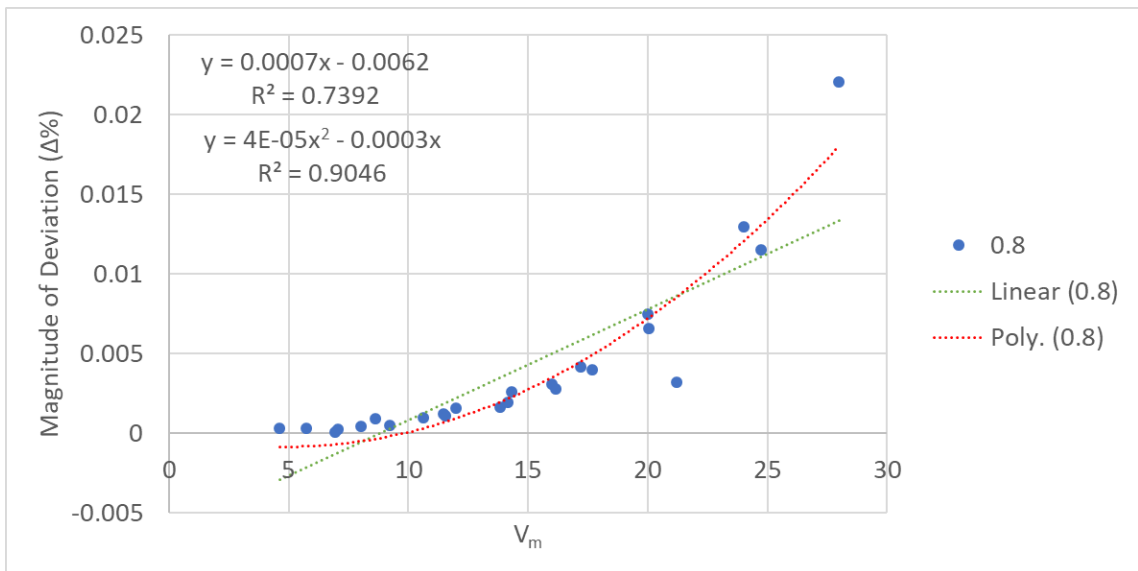
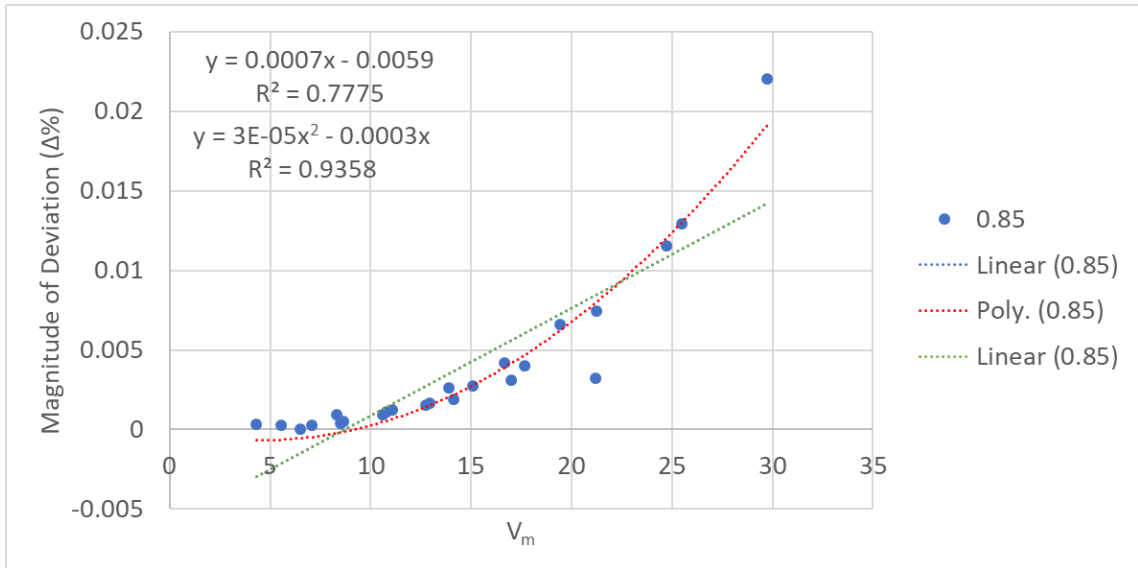


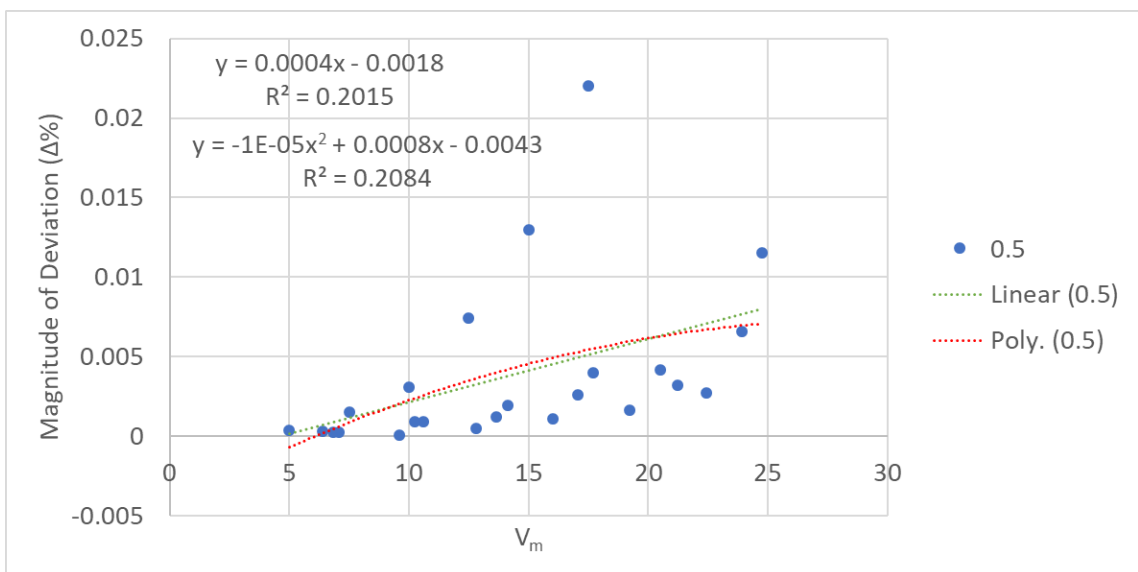
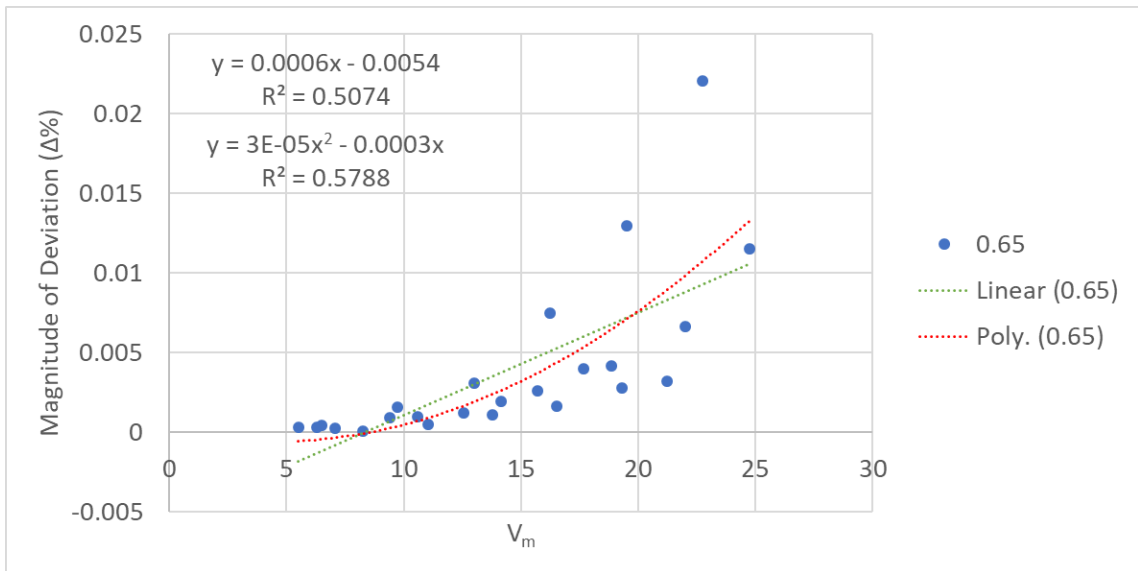
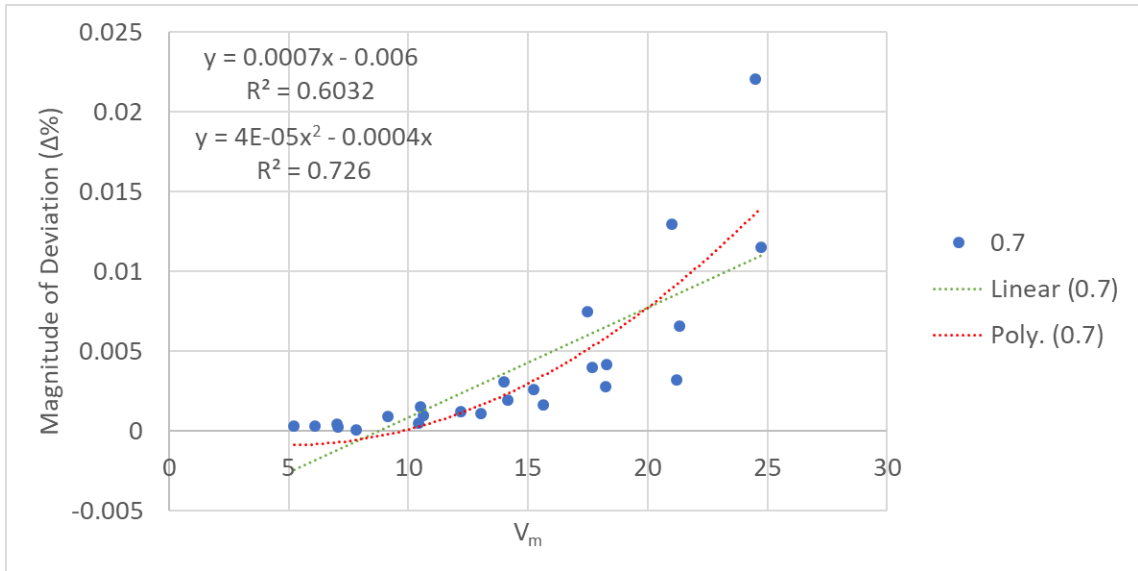


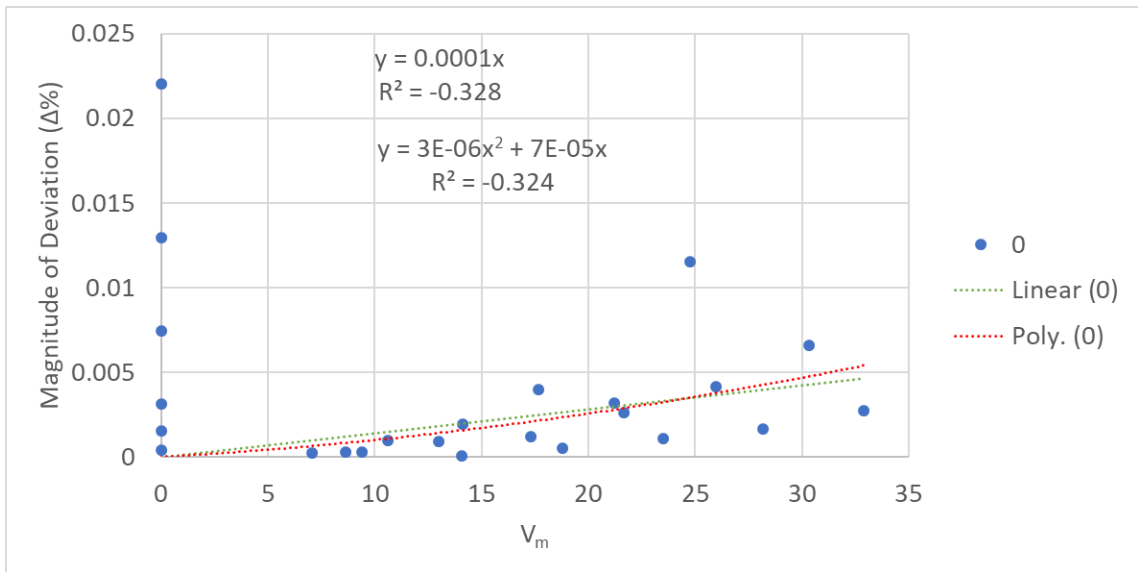
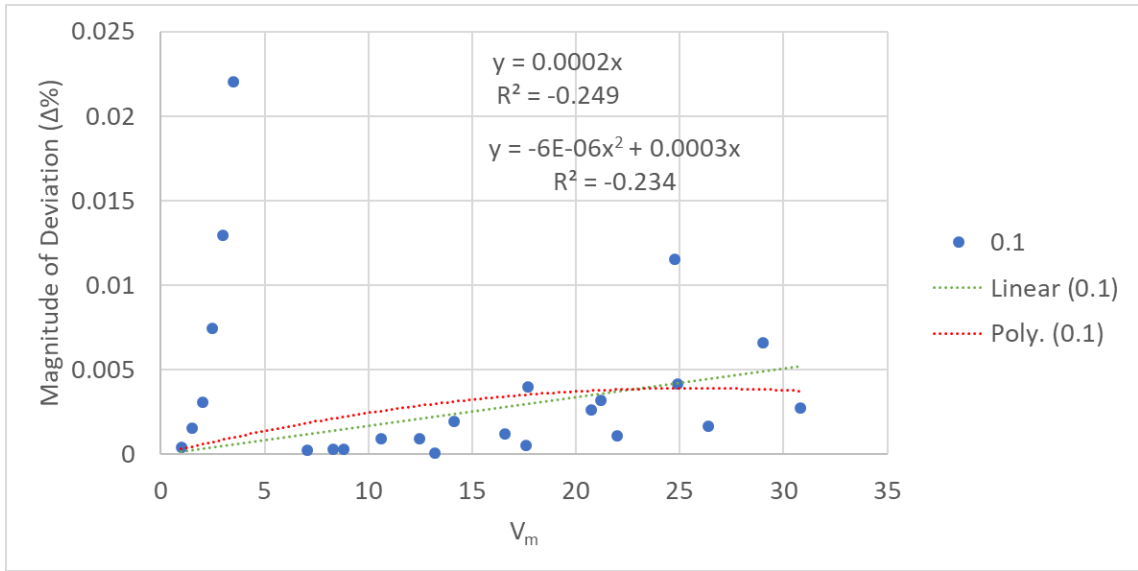
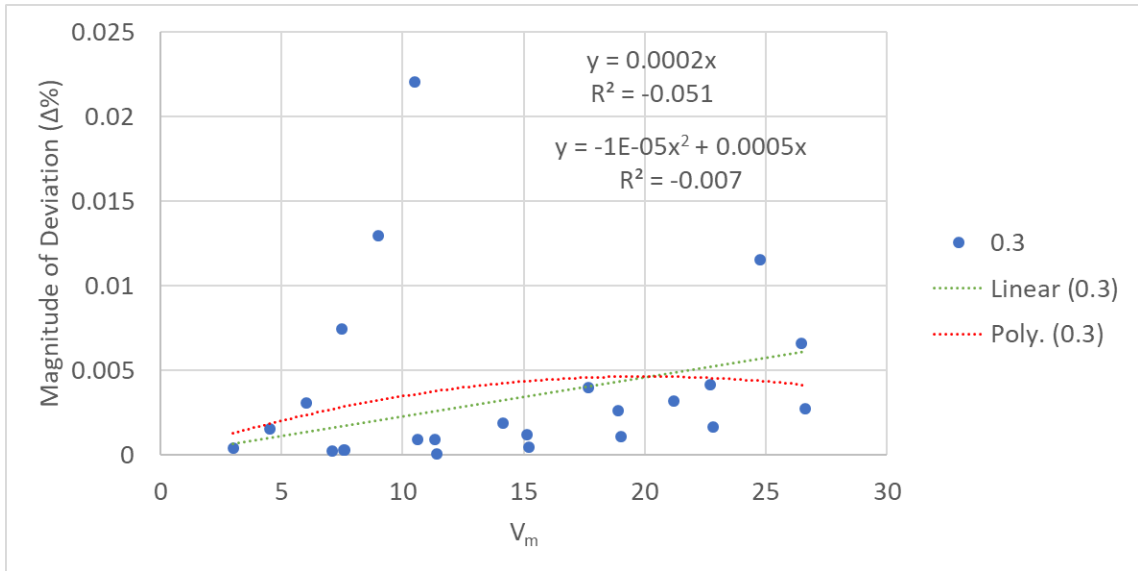


H.2.2 500 - 710 μm Primary Size Fraction

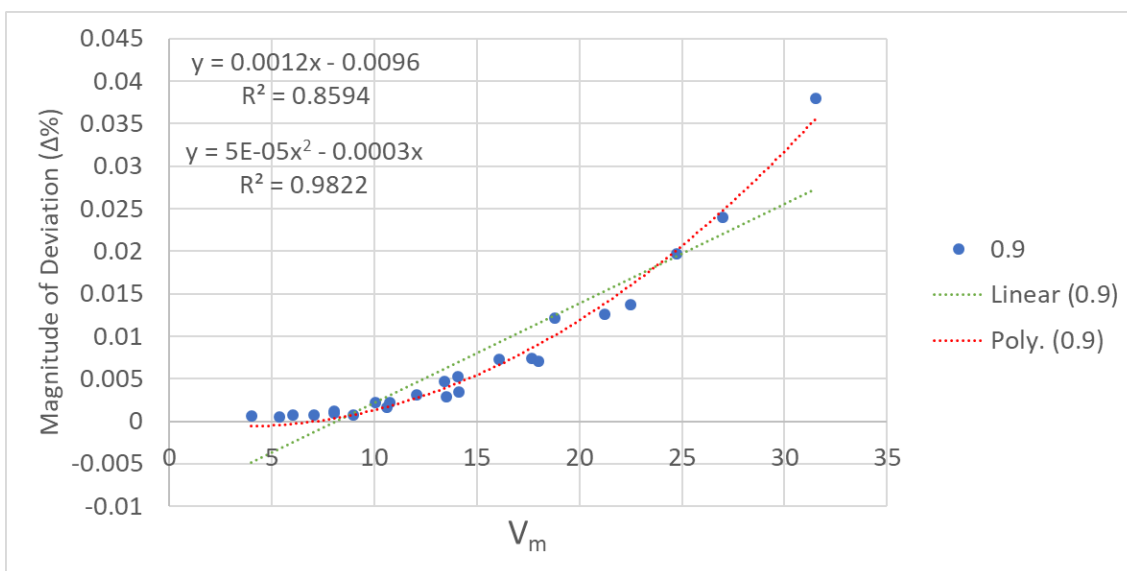
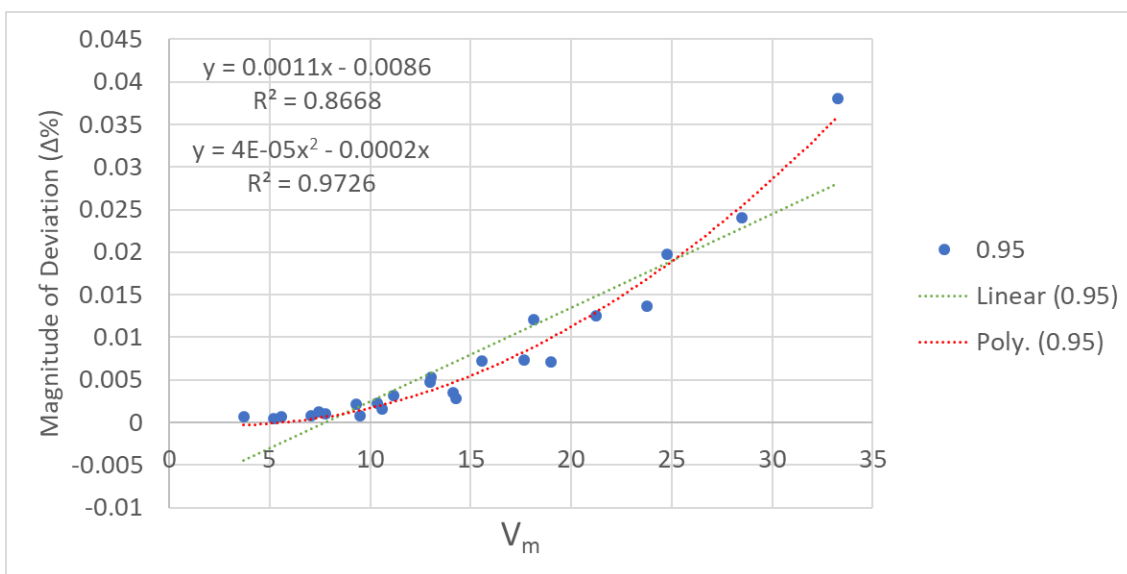
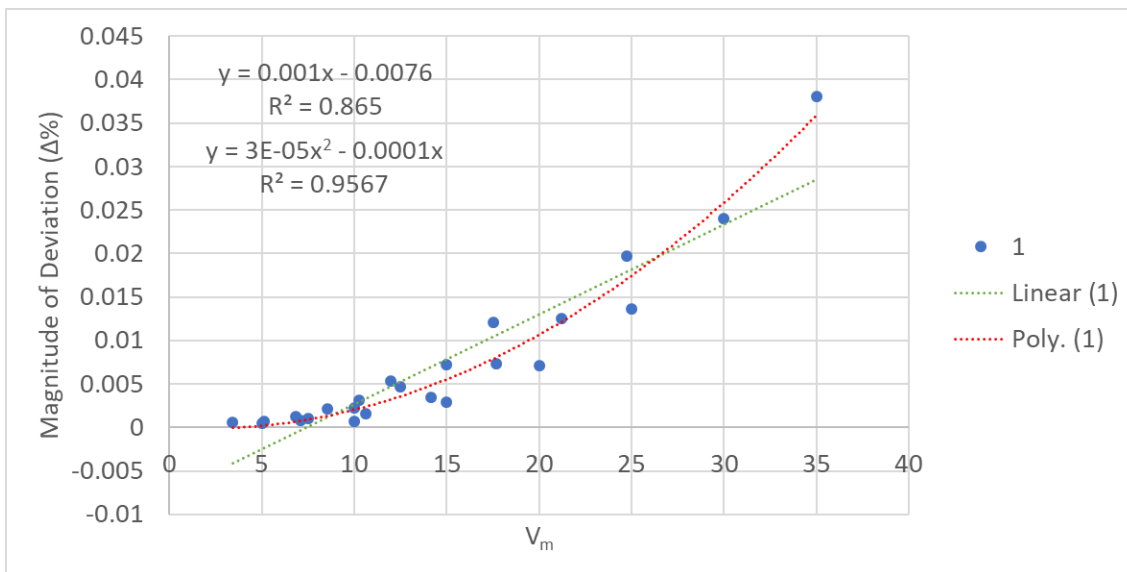


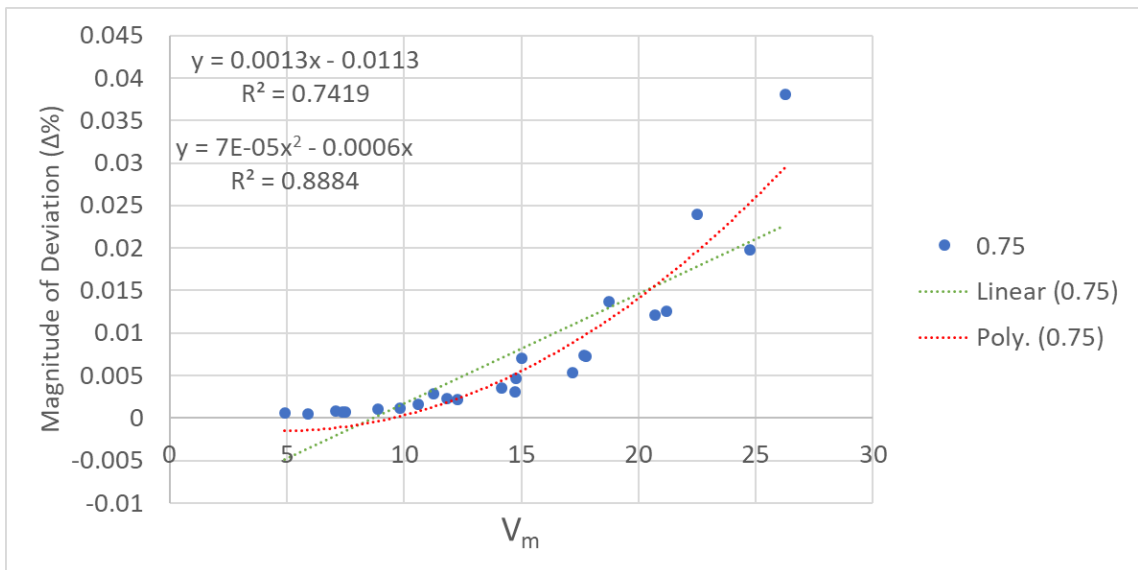
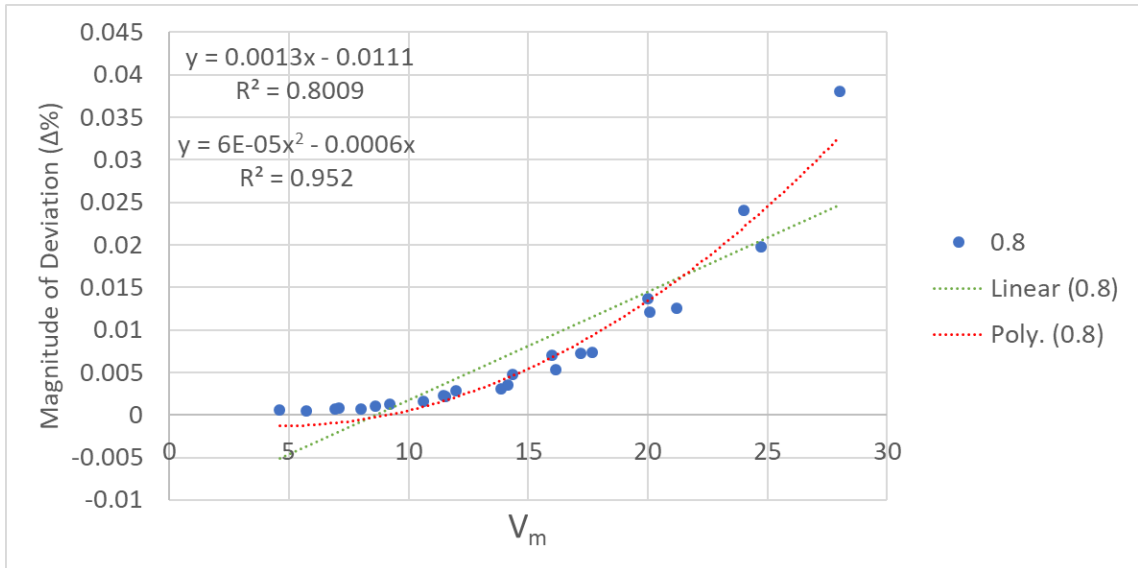
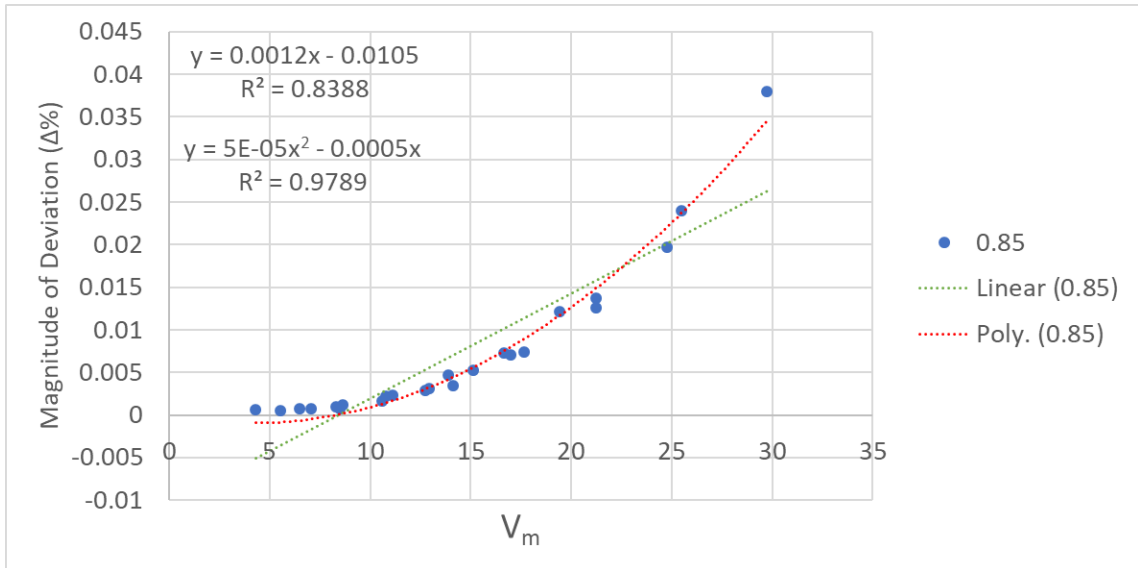


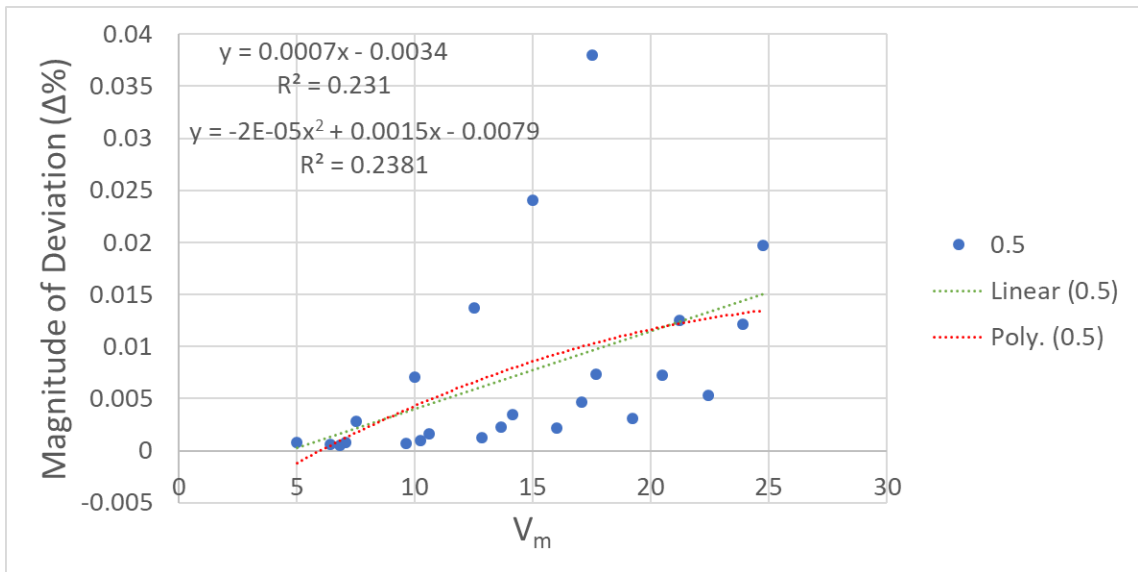
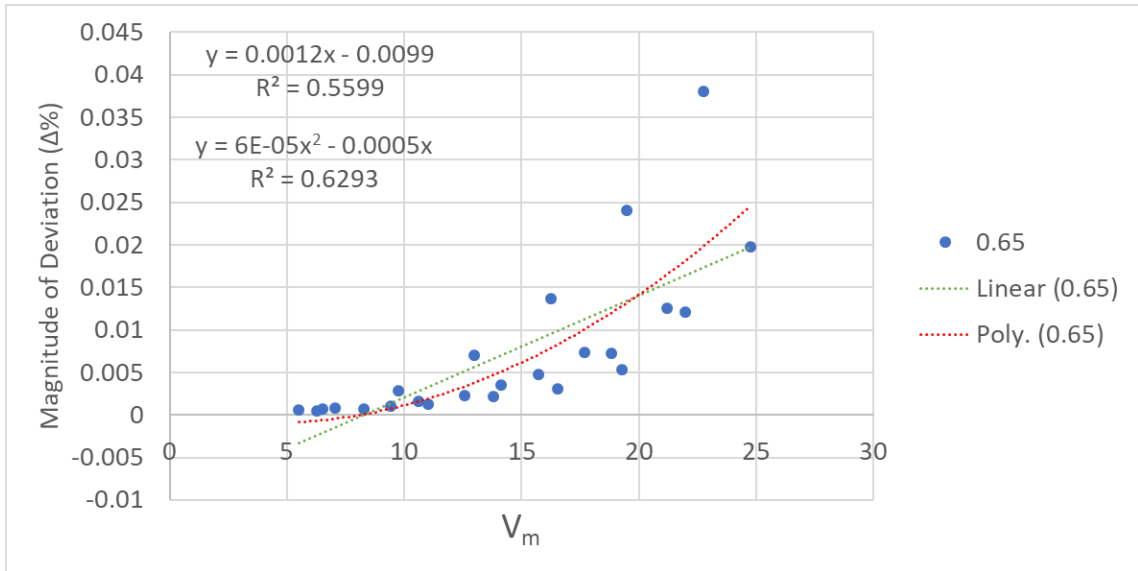
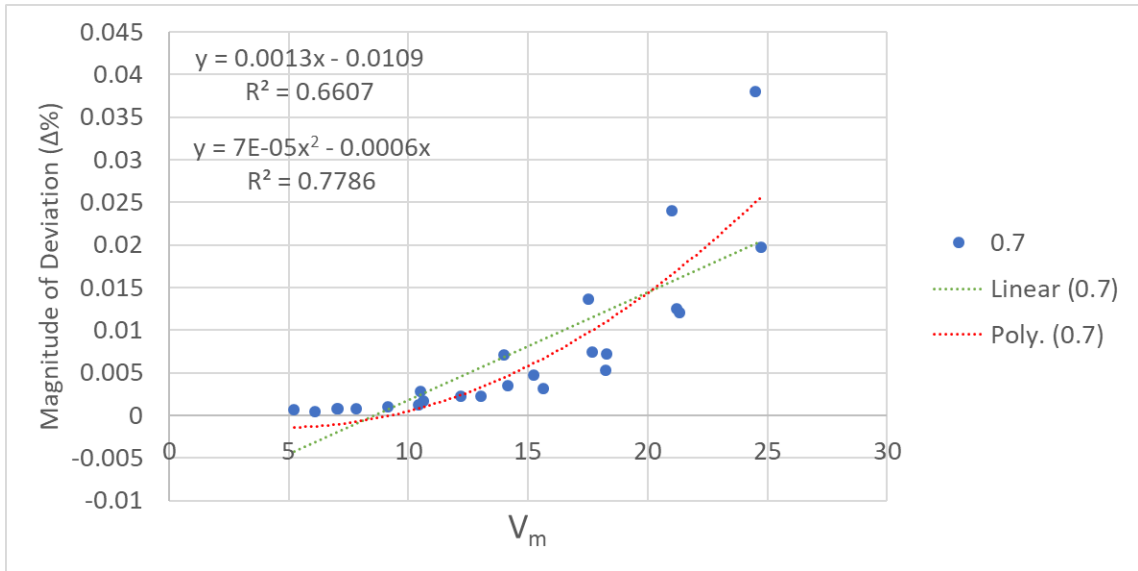


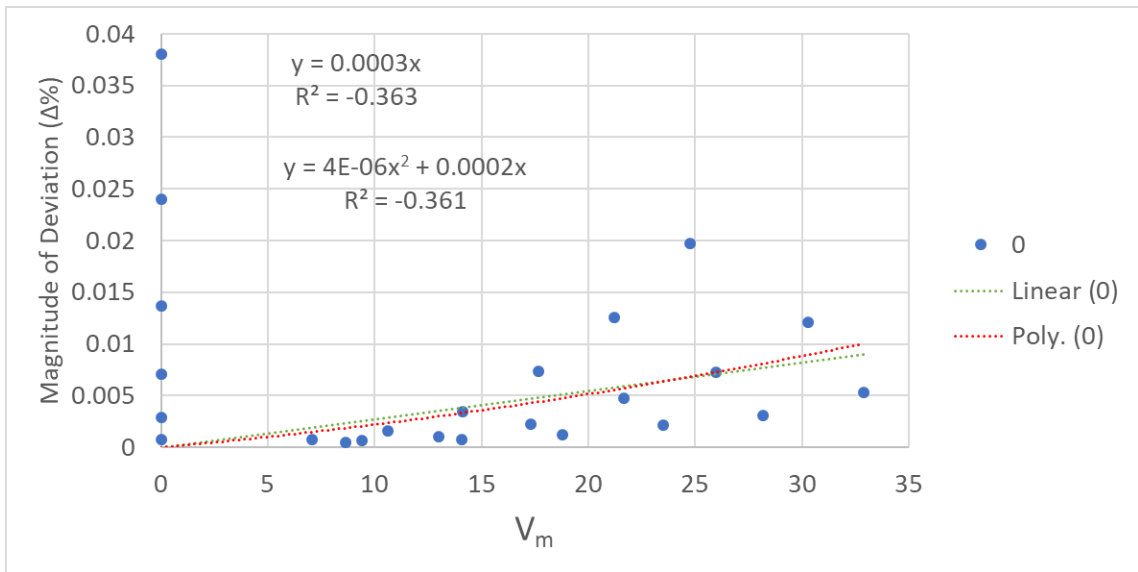
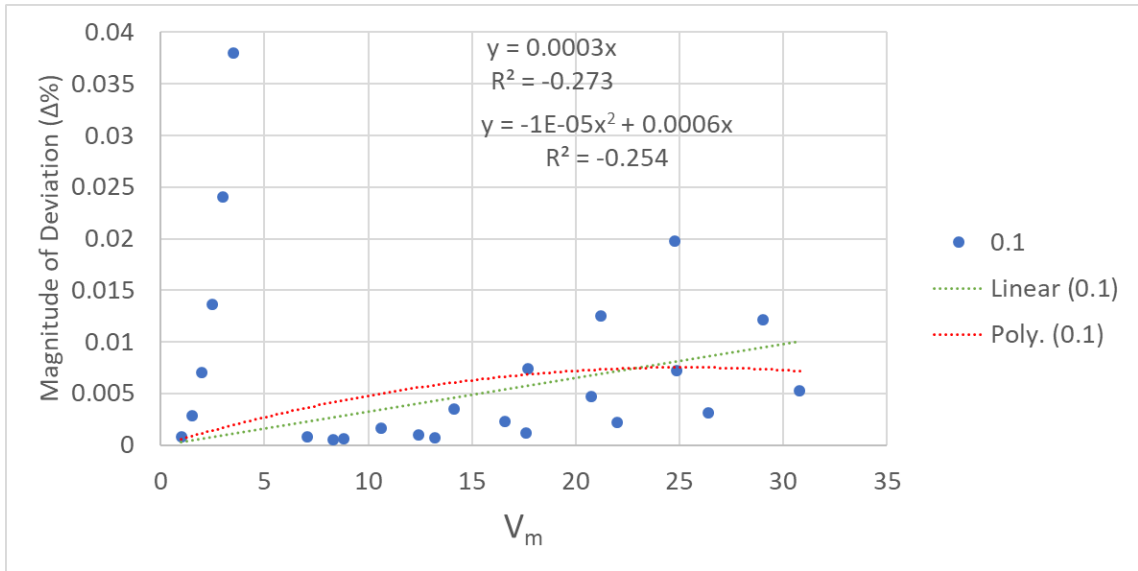
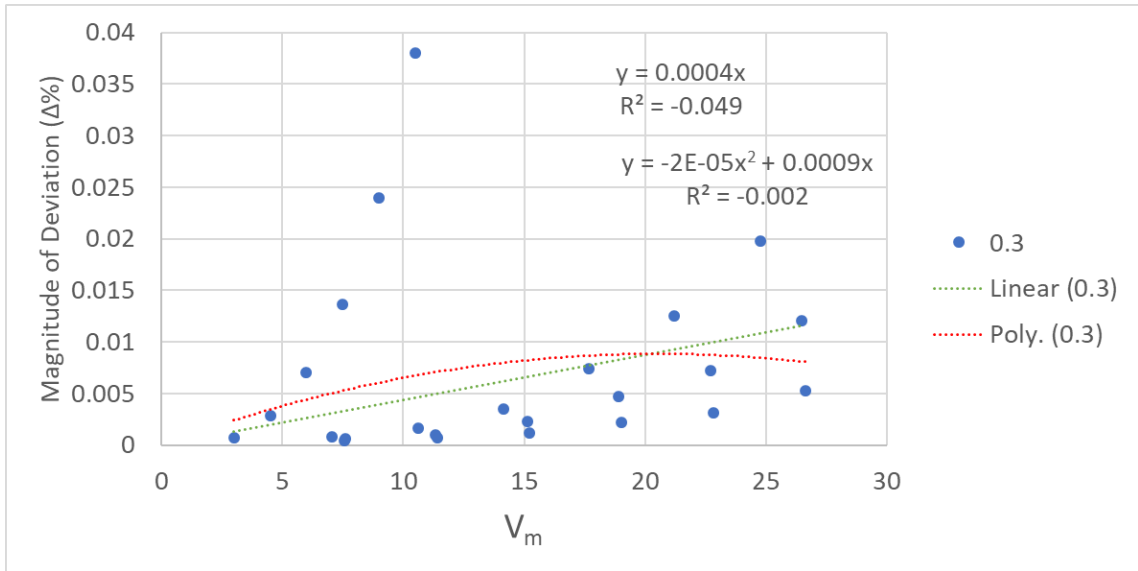


H.2.3 355 - 500 μm Primary Size Fraction









APPENDIX I: MATLAB Code for Curve Fit Optimisation

This appendix contains the code used to optimise the fit of the model curve with which the particle breakage behaviour can be interpolated across impact velocity and impact angle, and then be used to predict the level of particle attrition expected in the Single Bend Attrition Tester.

The inputs to the program consist of two column vectors (x and y) which specify the values of the model velocity, and particle attrition as measured by the Percent Change Criterion (α) respectively. The resolution and range over which the fitting variables are applied are changed by changing the 'step' and 'max' values of 'b' and 'c' in lines 2 to 5. The value of 'a' must be '1' for modelling of particle addition to a sieve size, and '-1' for modelling of particle breakage from a sieve size.

```
a=-1;
step_b=0.04;
step_c=0.01;
max_b=40;
max_c=10;

zr=max_b/step_b;
zc=max_c/step_c;
z=zeros(zr,zc);

for b=step_b:step_b:max_b

    R=b/step_b;
    R2=round(R,0);

    for c=step_c:step_c:max_c

        C=c/step_c;
        C2=round(C,0);

        g=(-1.*(x-b))/c;

        yfit=a./(1+(exp(g))); %Sigmoid equation

        yresid=y-yfit; %residuals

        SSresid=sum(yresid.^2);

        SStotal=(length(y)-1) * var(y);

        rsq=1 - SSresid/SStotal;

        z(R2,C2)=rsq;

    end

end

%figure(1)
```

```

%h=heatmap(z);

z2=z;

indices=find(z2<0);
z2(indices)=[];
M=max(z2);
[row,col]=find(z==M);
Optimum_r2=M;
optimum_b=row*step_b;
optimum_c=col*step_c;

x_optimum=min(x):0.001:max(x);
g_optimum=(-1.*(x_optimum-optimum_b))./optimum_c;
yfit_optimum=a./(1+(exp(g_optimum))); %my equation

figure(2)
scatter(x,y)
hold on
plot(x_optimum,yfit_optimum)
hold off

t=msgbox(sprintf('b = %2.3g\nc = %2.3g\nCoefficient of Determination =
%2.3g',optimum_b,optimum_c,Optimum_r2),'Optimum Sigmoid Model Values');

set(t, 'position', [500 300 275 75]);

```

APPENDIX J: Fitting Results for the Single Bend Attrition Tester Data

This appendix contains the graphical representations of the polynomial and exponential sigmoid curves used to model the SBAT data. The curves were optimised with the data obtained by the Bench Scale Particle Attrition Tester. The figures are categorised by first by breakage criteria (mass loss /mass addition), then SBAT bend type, and fitted curve type. The caption of each figure indicates the method by which the mean particle impact angle within the SBAT bend was determined.

J.1 Particle Attrition Measured by Mass Lost from the 710 – 1000 μm Fraction

J.1.1 Short Radius Bend

J.1.1.1 Polynomial Fit

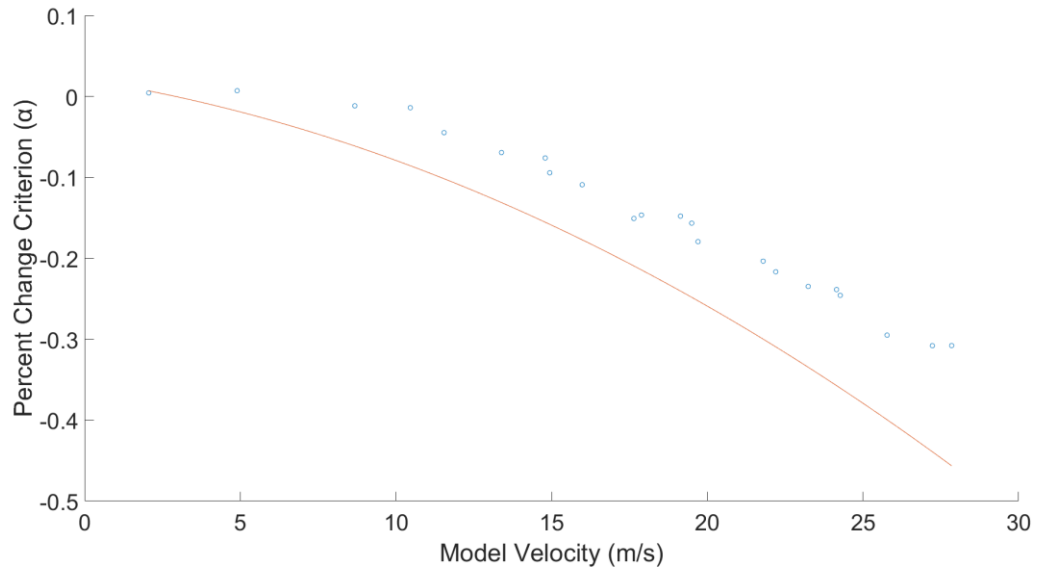


Figure J-1: Centre Axis Projection

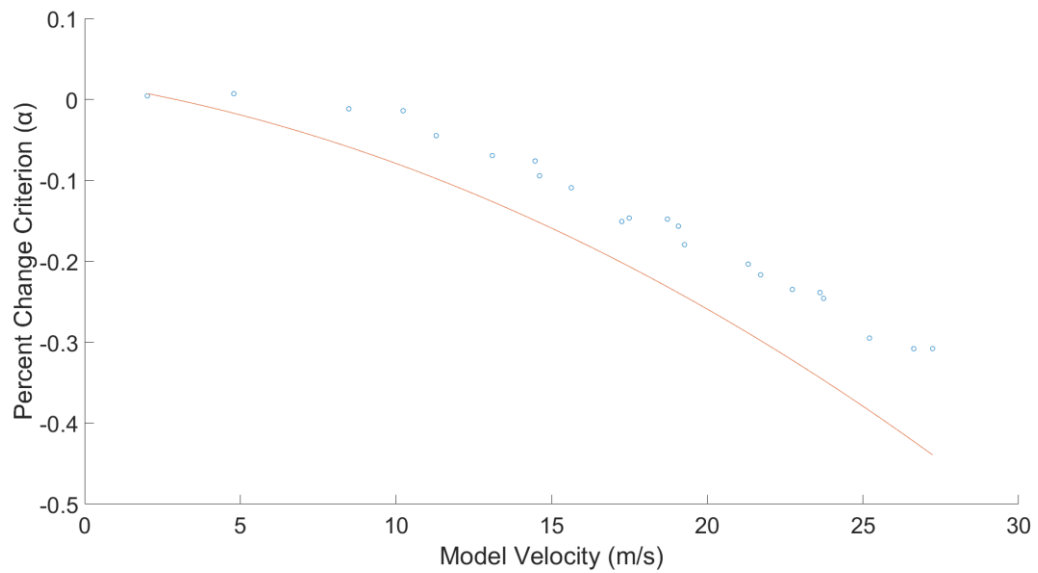


Figure J-2: Cross sectional pipe area projection

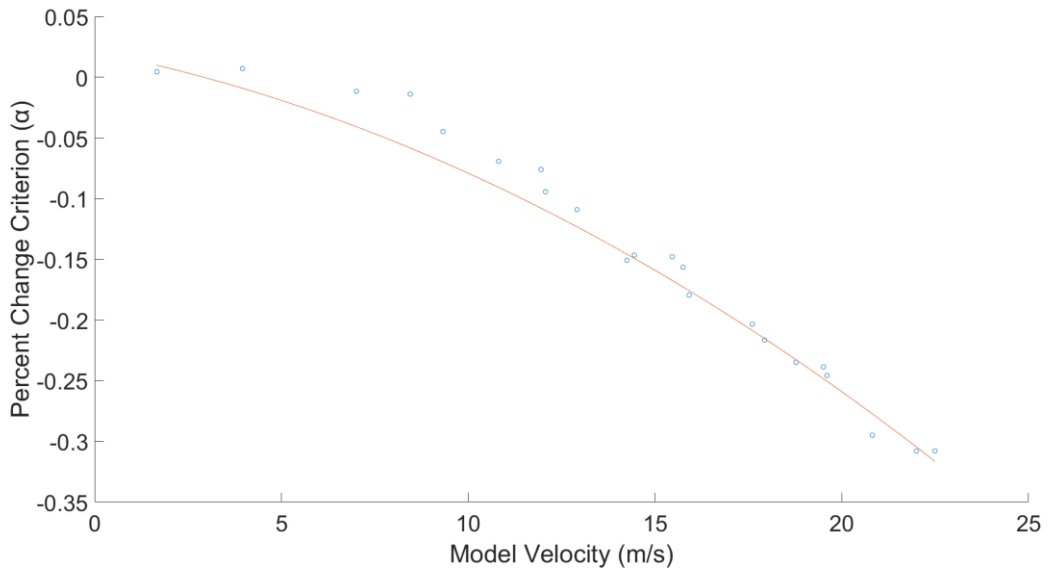


Figure J-3: CFD-DEM

J.1.1.2 Exponential Sigmoid Fit

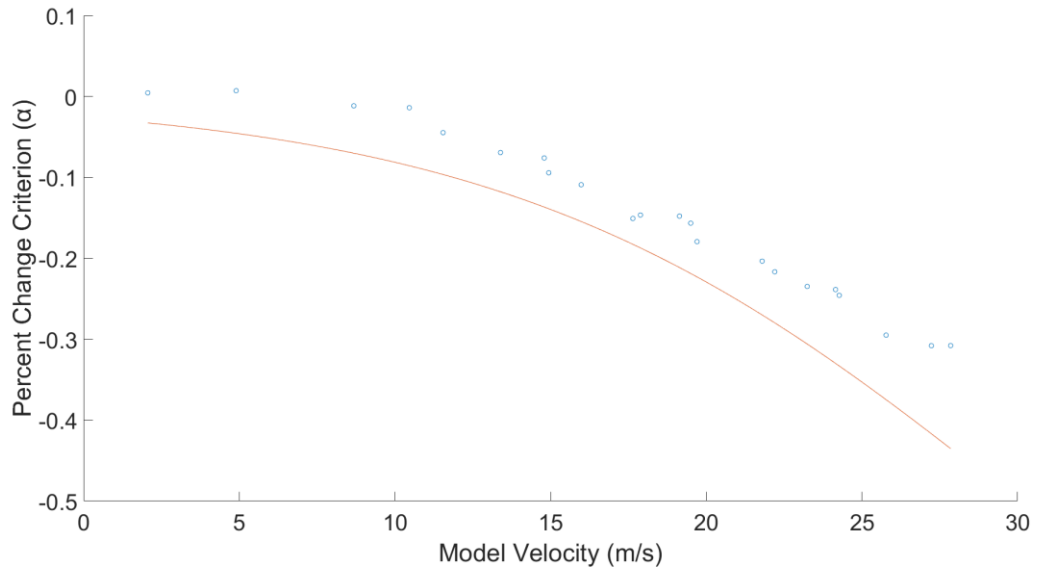


Figure J-4: Centre Axis Projection

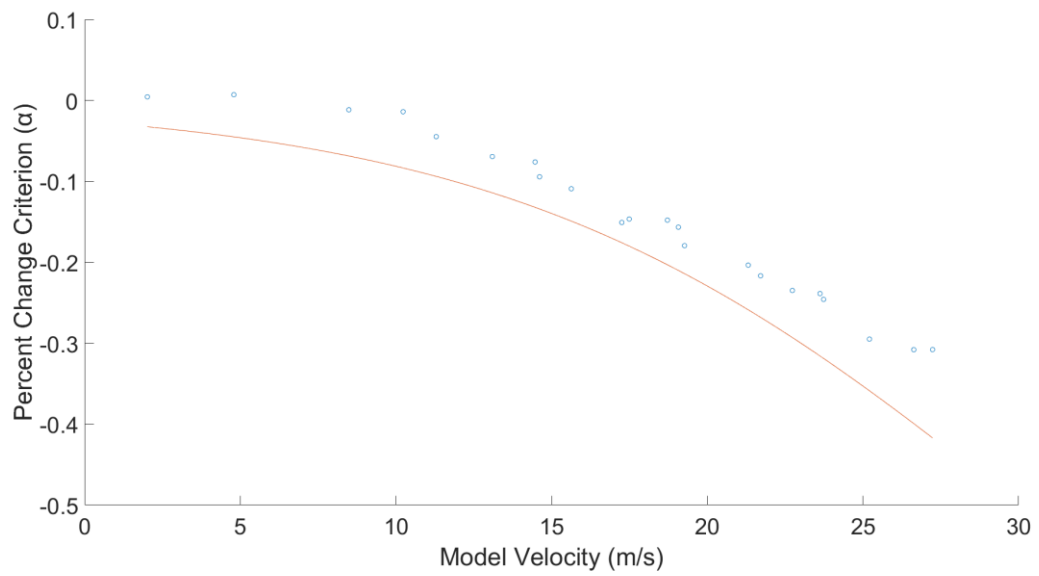


Figure J-5: Cross sectional pipe area projection

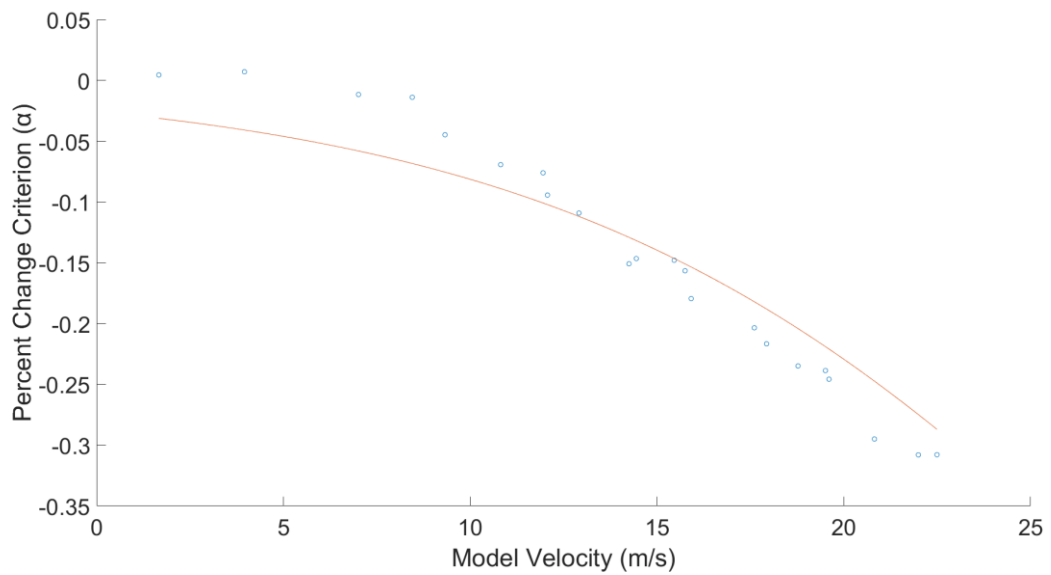


Figure J-6: CFD-DEM

J.1.2 Long radius Bend

J.1.2.1 Polynomial Fit

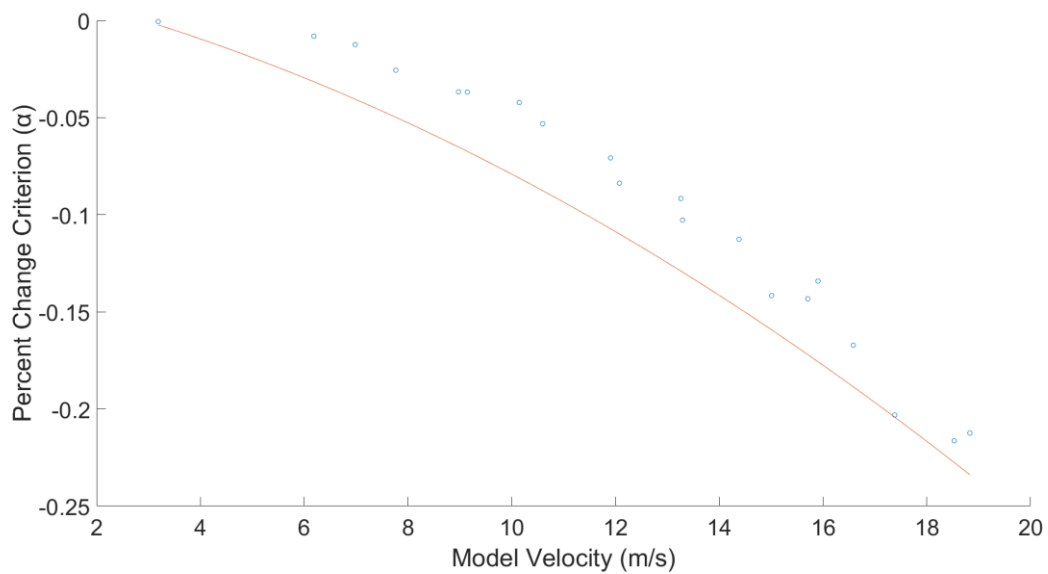


Figure J-7: Centre Axis Projection

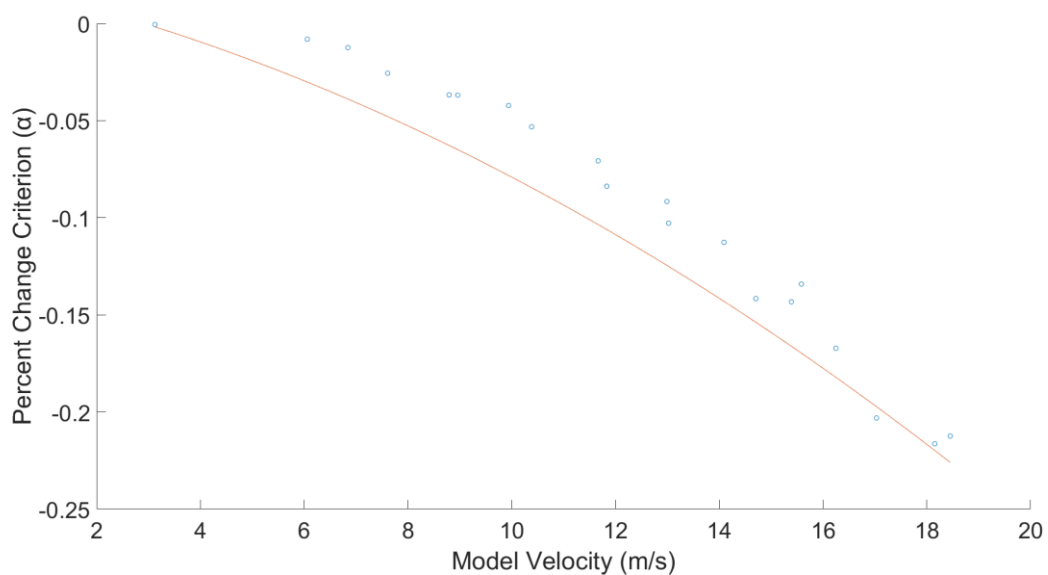


Figure J-8: Cross sectional pipe area projection

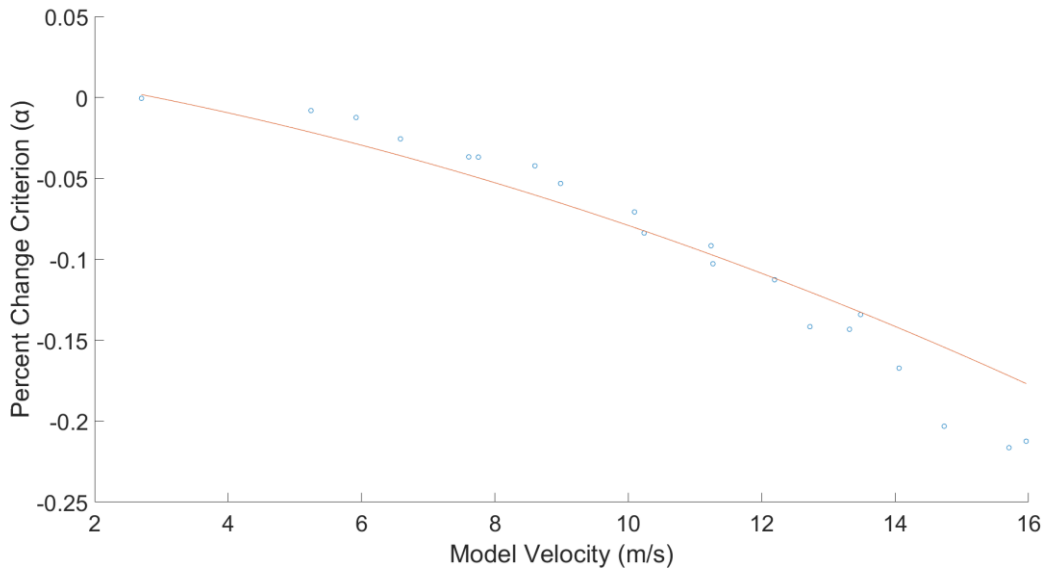


Figure J-9: CFD-DEM

J.1.2.2 Exponential Sigmoid Fit

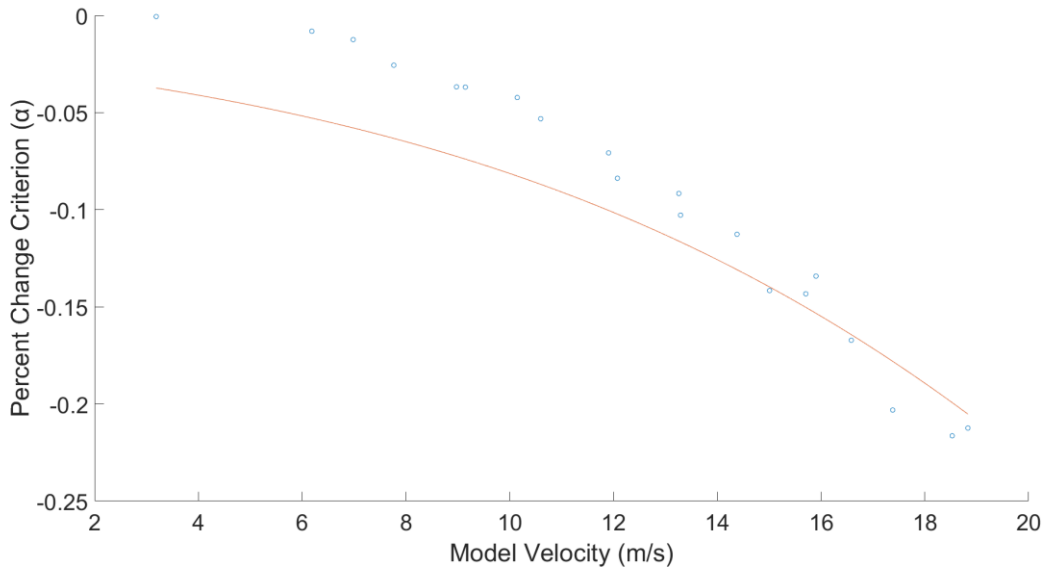


Figure J-10: Centre Axis Projection

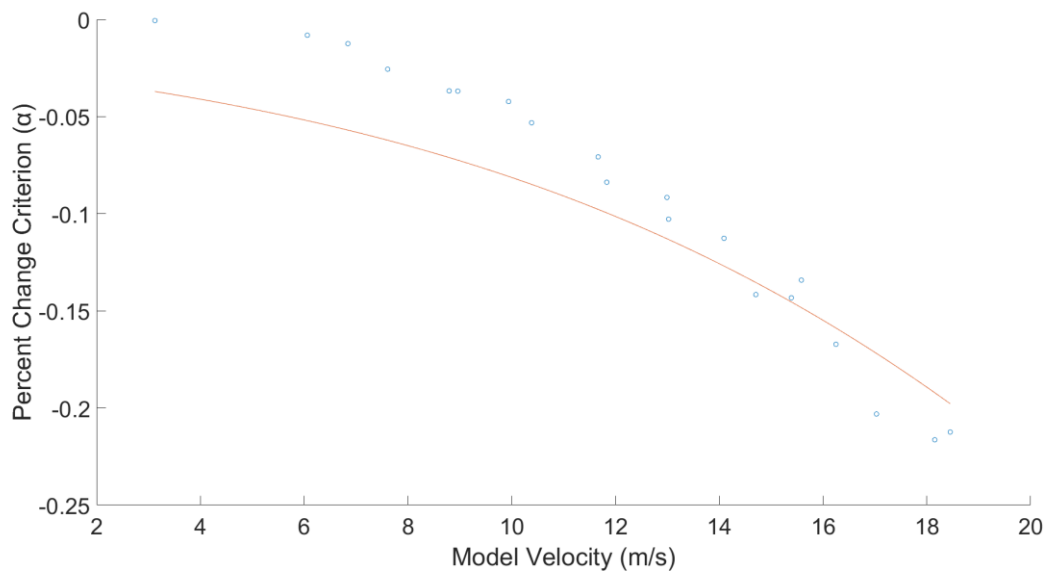


Figure J-11: Cross sectional pipe area projection

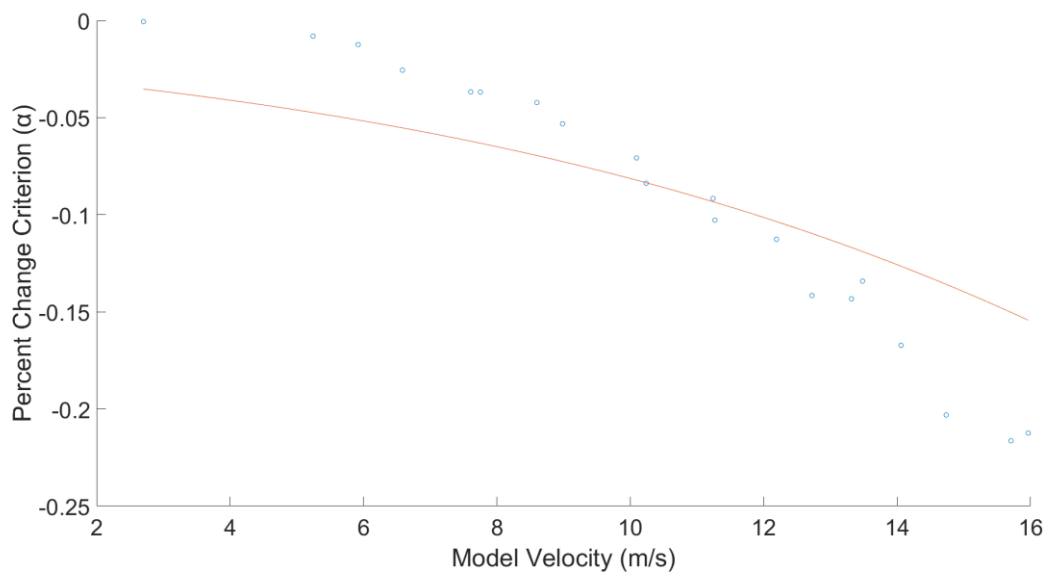


Figure J-12: CFD-DEM

J.2 Particle Attrition Measured by Mass Addition to the 180 – 250 μm Fraction

J.2.1 Short Radius Bend

J.2.1.1 Polynomial Fit

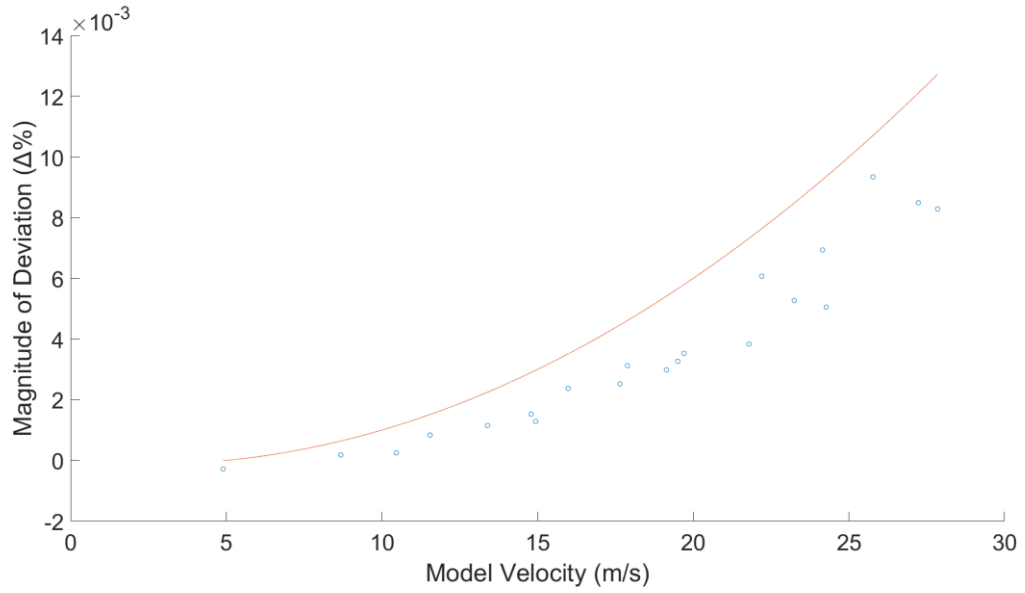


Figure J-13: Centre Axis Projection

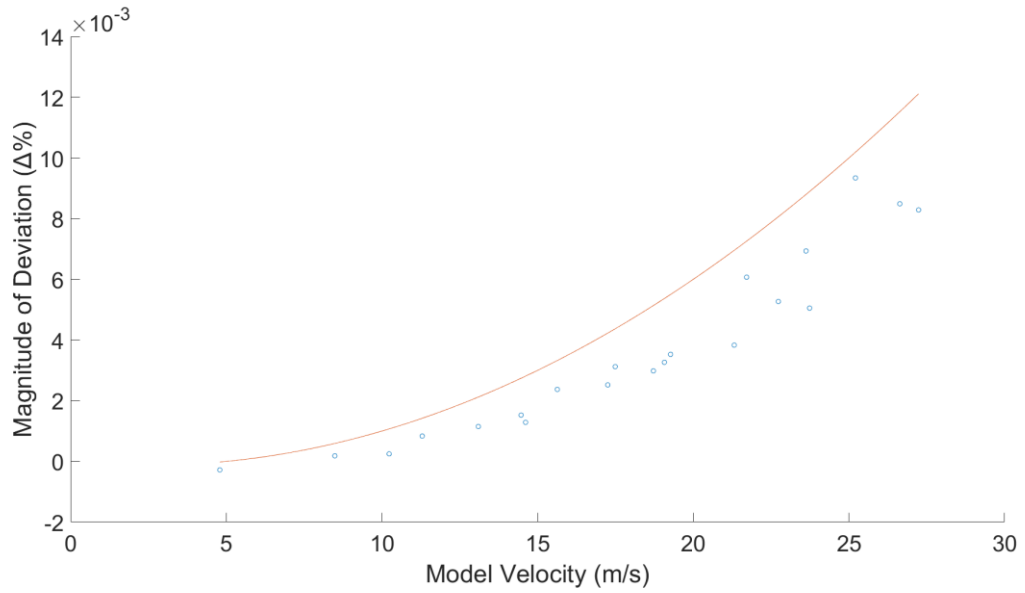


Figure J-14: Cross sectional pipe area projection

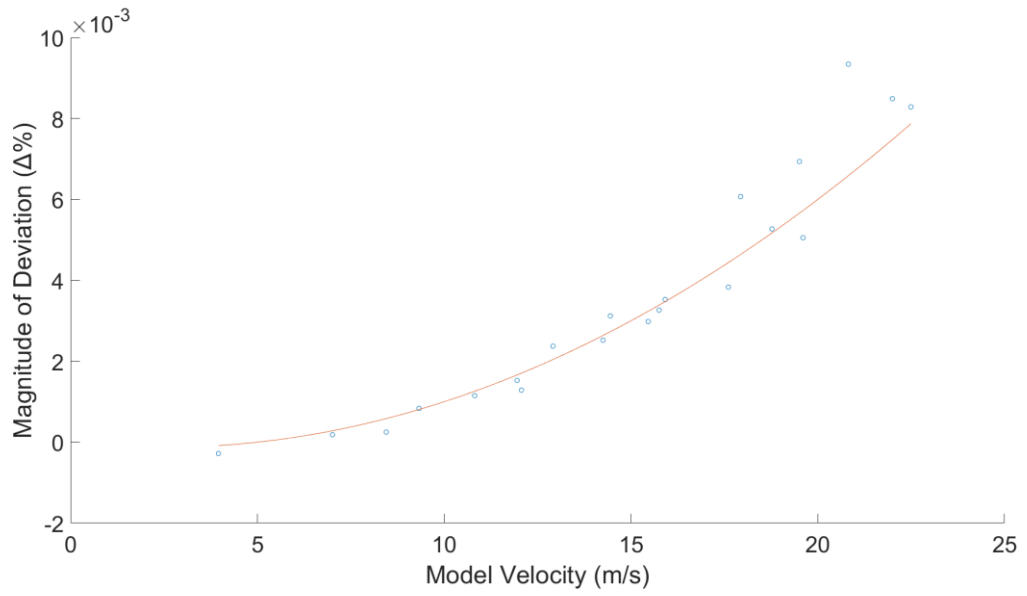


Figure J-15: CFD-DEM

J.2.1.2 Exponential Sigmoid Fit

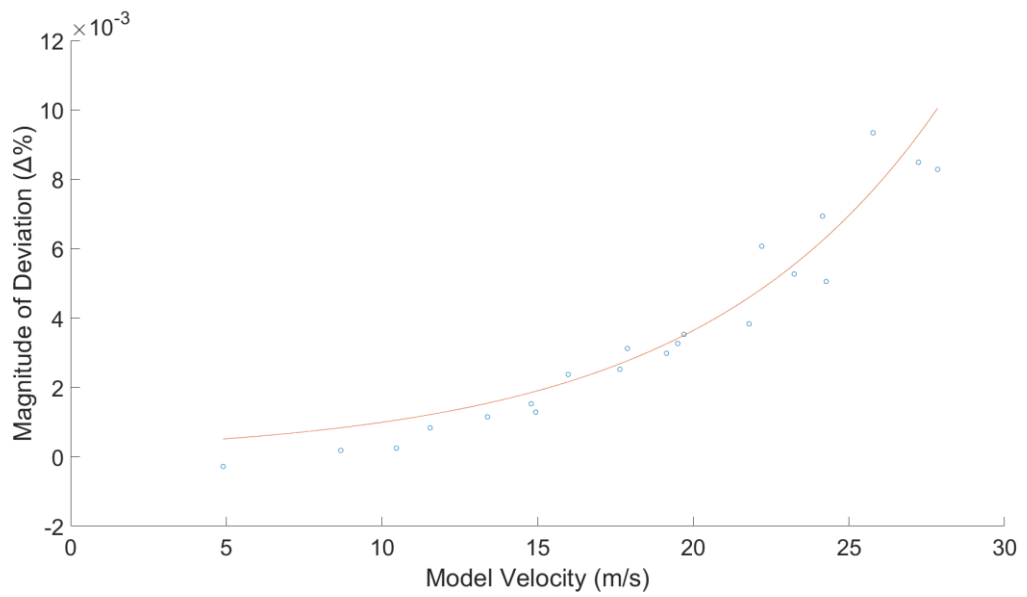


Figure J-16: Centre Axis Projection

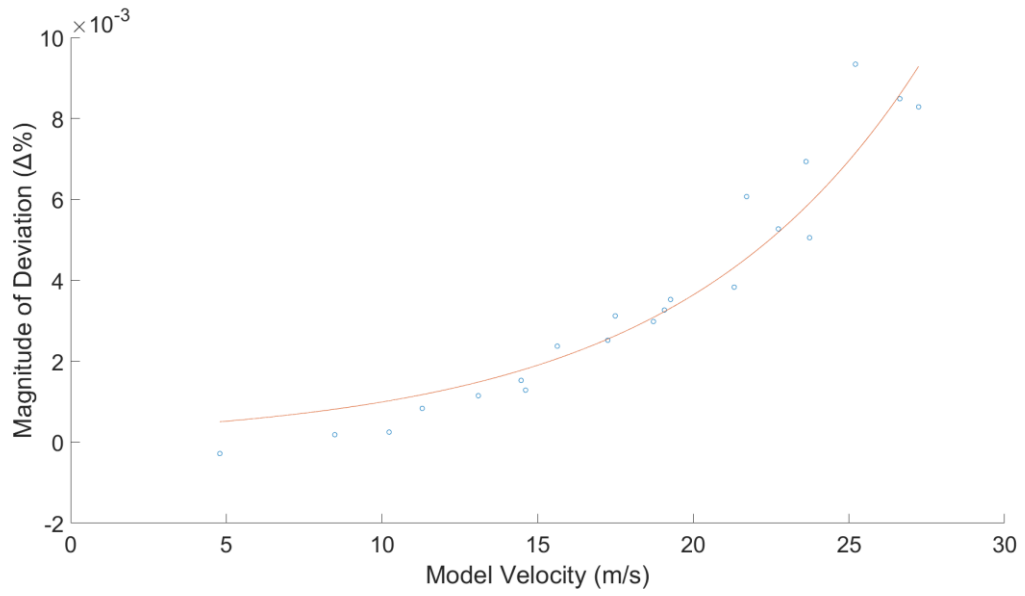


Figure J-17: Cross sectional pipe area projection

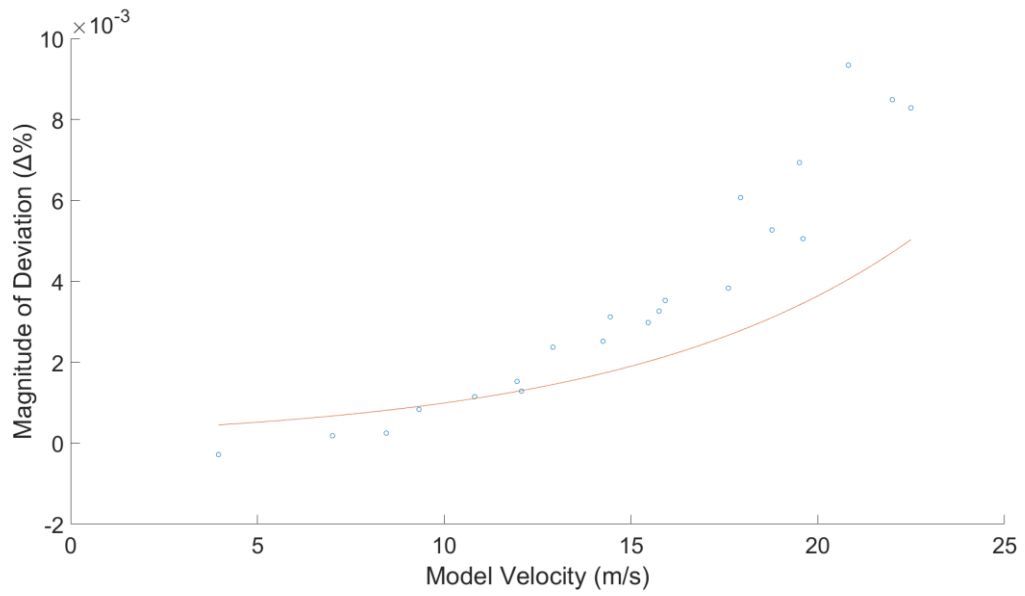


Figure J-18: CFD-DEM

J.2.2 Long radius Bend

J.2.2.1 Polynomial Fit

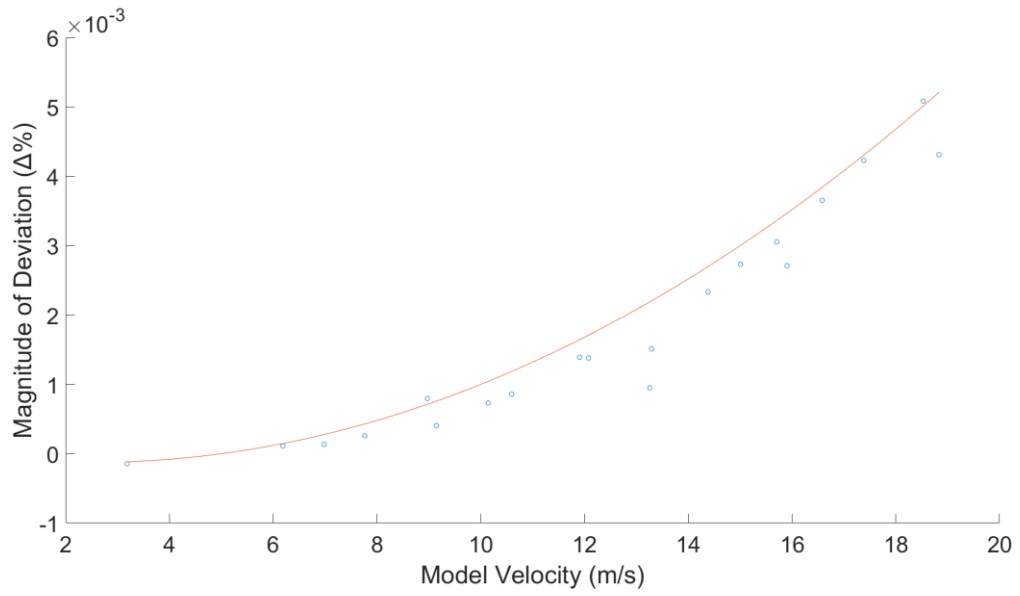


Figure J-19: Centre Axis Projection

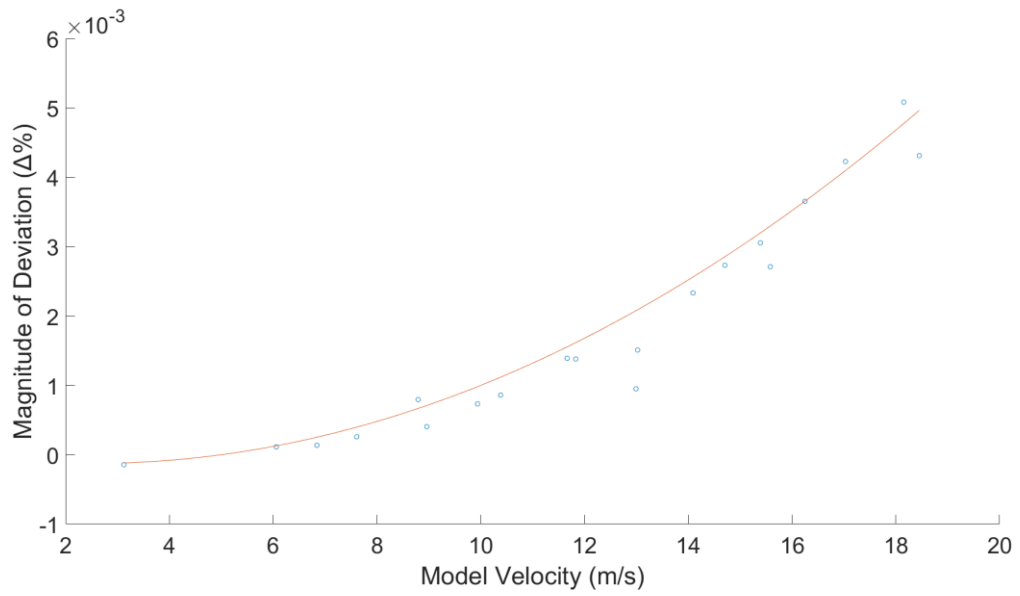


Figure J-20: Cross sectional pipe area projection

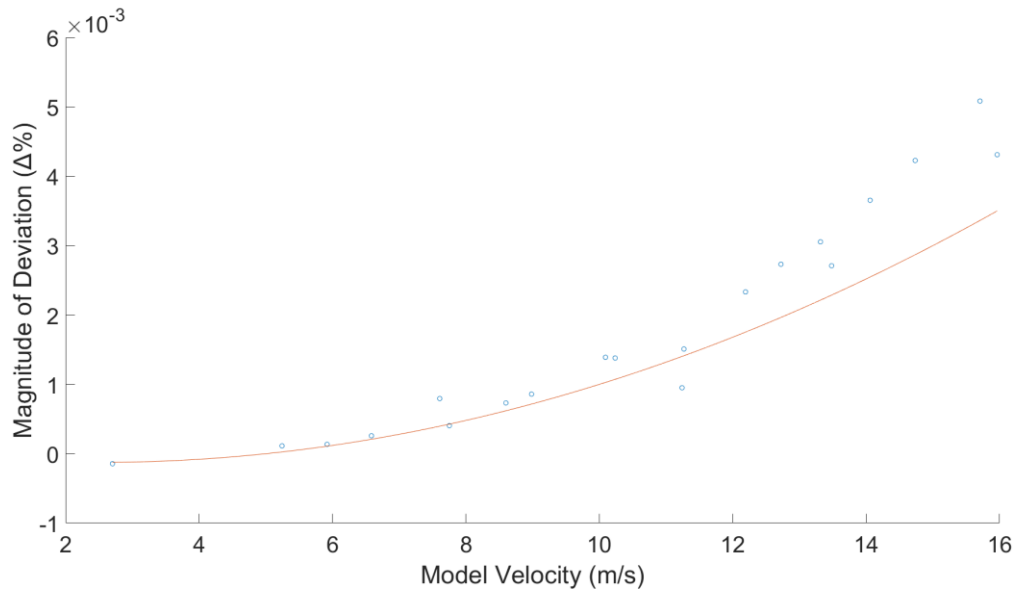


Figure J-21: CFD-DEM

J.2.2.1 Exponential Sigmoid Fit

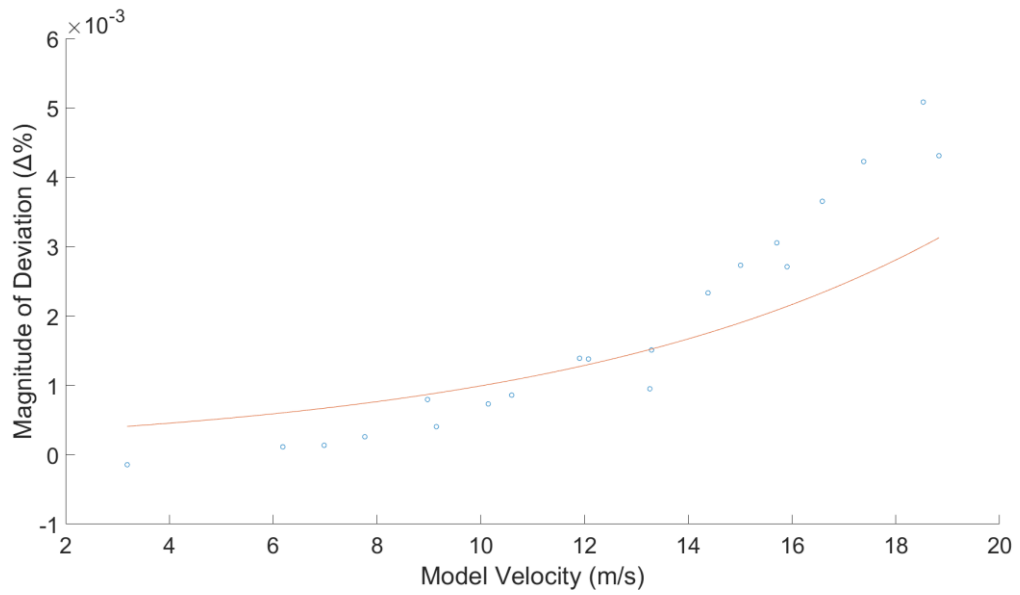


Figure J-22: Centre Axis Projection

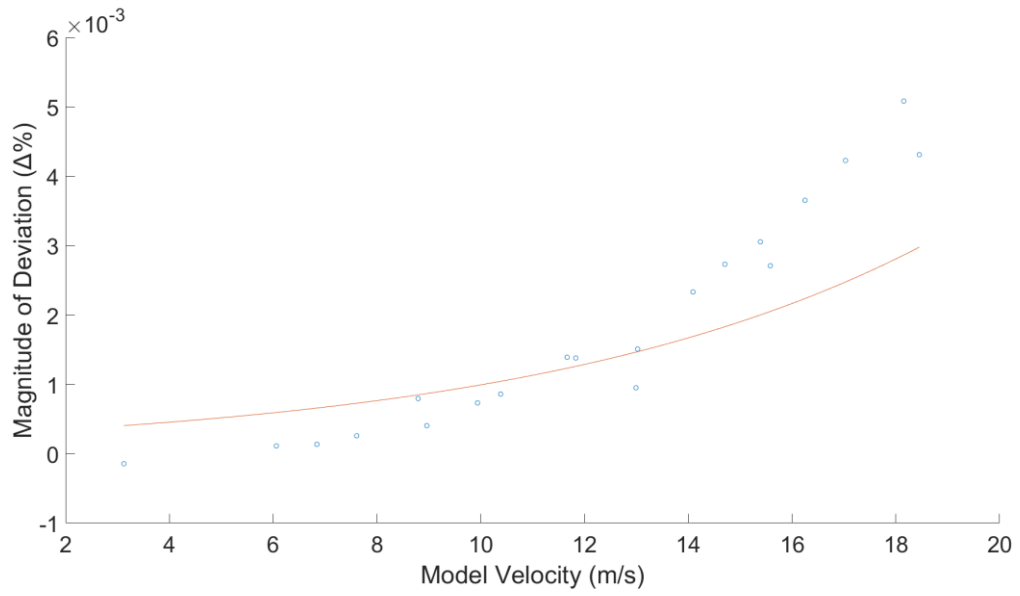


Figure J-23: Cross sectional pipe area projection

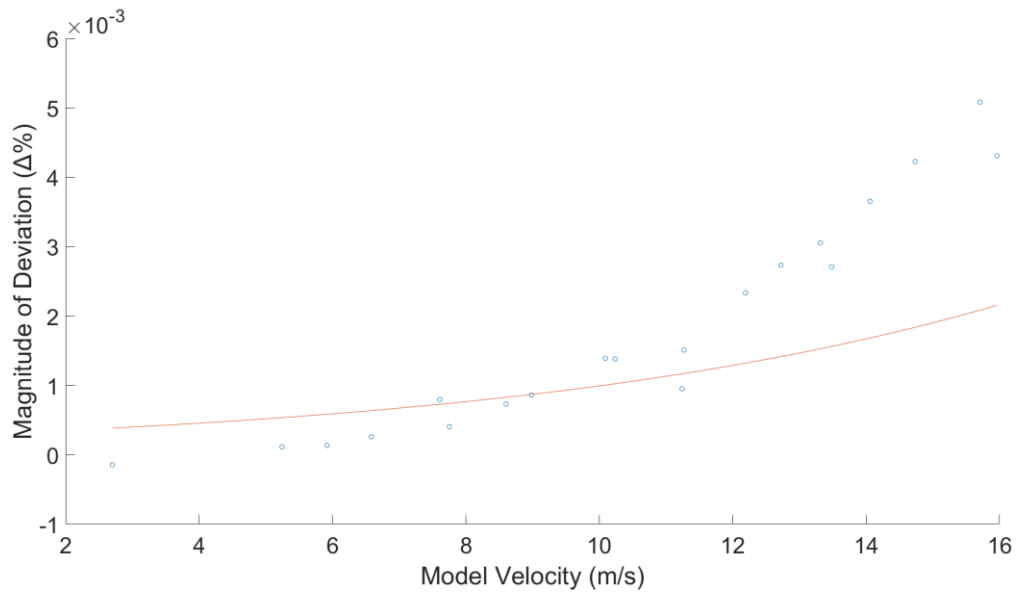


Figure J-24: CFD-DEM

APPENDIX K: Experimental Data – QPM Attrition Tester

This Appendix contains all the raw data and calculations used to analyse the particle attrition behaviour across all relevant material types in the experimental programme. The data is arranged by material type.

K.1 Carbolux SK Breakage matrix

Material	Batch	Impact Velocity	Impact Angle	Sieve	Mass Retained	Mass Collected	Percent Mass Retained	Virgin PSD	Change
Carbolux	250-355	15	90	2800	0	101.25		0	0
Carbolux	250-355	15	90	2000	0	101.25		0	0
Carbolux	250-355	15	90	1400	0	101.25		0	0
Carbolux	250-355	15	90	1000	0	101.25		0	0
Carbolux	250-355	15	90	710	0	101.25		0	0
Carbolux	250-355	15	90	500	0	101.25		0	0
Carbolux	250-355	15	90	355	40.15	101.25	0.39654321	0.3908993	0.00564
Carbolux	250-355	15	90	250	59.87	101.25	0.591308642	0.6039564	-0.0126
Carbolux	250-355	15	90	180	1.19	101.25	0.011753086	0.0050747	0.00668
Carbolux	250-355	15	90	125	0.02	101.25	0.000197531	6.957E-05	0.00013
Carbolux	250-355	15	90	90	0.01	101.25	9.87654E-05	0	9.9E-05
Carbolux	250-355	15	90	63	0.01	101.25	9.87654E-05	0	9.9E-05
Carbolux	250-355	15	90	45	0	101.25	0	0	0
Carbolux	250-355	15	90	0	0	101.25	0	0	0
Carbolux	250-355	20	90	2800	0	98.15		0	0
Carbolux	250-355	20	90	2000	0	98.15		0	0
Carbolux	250-355	20	90	1400	0	98.15		0	0
Carbolux	250-355	20	90	1000	0	98.15		0	0
Carbolux	250-355	20	90	710	0	98.15		0	0
Carbolux	250-355	20	90	500	0	98.15		0	0
Carbolux	250-355	20	90	355	37.33	98.15	0.38033622	0.3908993	-0.0106
Carbolux	250-355	20	90	250	58.97	98.15	0.600815079	0.6039564	-0.0031
Carbolux	250-355	20	90	180	1.69	98.15	0.017218543	0.0050747	0.01214
Carbolux	250-355	20	90	125	0.13	98.15	0.001324503	6.957E-05	0.00125
Carbolux	250-355	20	90	90	0.02	98.15	0.00020377	0	0.0002
Carbolux	250-355	20	90	63	0.01	98.15	0.000101885	0	0.0001
Carbolux	250-355	20	90	45	0	98.15	0	0	0
Carbolux	250-355	20	90	0	0	98.15	0	0	0
Carbolux	250-355	25	90	2800	0	97.13		0	0
Carbolux	250-355	25	90	2000	0	97.13		0	0
Carbolux	250-355	25	90	1400	0	97.13		0	0
Carbolux	250-355	25	90	1000	0	97.13		0	0
Carbolux	250-355	25	90	710	0	97.13		0	0
Carbolux	250-355	25	90	500	0	97.13		0	0
Carbolux	250-355	25	90	355	36.03	97.13	0.370946155	0.3908993	-0.02
Carbolux	250-355	25	90	250	58.54	97.13	0.602697416	0.6039564	-0.0013
Carbolux	250-355	25	90	180	2.27	97.13	0.02337074	0.0050747	0.0183
Carbolux	250-355	25	90	125	0.22	97.13	0.002265006	6.957E-05	0.0022
Carbolux	250-355	25	90	90	0.03	97.13	0.000308864	0	0.00031
Carbolux	250-355	25	90	63	0.04	97.13	0.000411819	0	0.00041
Carbolux	250-355	25	90	45	0	97.13	0	0	0
Carbolux	250-355	25	90	0	0	97.13	0	0	0
Carbolux	250-355	30	90	2800	0	100.5		0	0
Carbolux	250-355	30	90	2000	0	100.5		0	0
Carbolux	250-355	30	90	1400	0	100.5		0	0
Carbolux	250-355	30	90	1000	0	100.5		0	0
Carbolux	250-355	30	90	710	0	100.5		0	0
Carbolux	250-355	30	90	500	0	100.5		0	0
Carbolux	250-355	30	90	355	34.86	100.5	0.346865672	0.3908993	-0.044
Carbolux	250-355	30	90	250	61.58	100.5	0.612736318	0.6039564	0.00878
Carbolux	250-355	30	90	180	3.49	100.5	0.034726368	0.0050747	0.02965
Carbolux	250-355	30	90	125	0.43	100.5	0.004278607	6.957E-05	0.00421
Carbolux	250-355	30	90	90	0.05	100.5	0.000497512	0	0.0005
Carbolux	250-355	30	90	63	0.08	100.5	0.00079602	0	0.0008
Carbolux	250-355	30	90	45	0.01	100.5	9.95025E-05	0	1E-04
Carbolux	250-355	30	90	0	0	100.5	0	0	0
Carbolux	250-355	35	90	2800	0	96.77		0	0
Carbolux	250-355	35	90	2000	0	96.77		0	0
Carbolux	250-355	35	90	1400	0	96.77		0	0
Carbolux	250-355	35	90	1000	0	96.77		0	0
Carbolux	250-355	35	90	710	0	96.77		0	0
Carbolux	250-355	35	90	500	0	96.77		0	0
Carbolux	250-355	35	90	355	36.76	96.77	0.379869794	0.3908993	-0.011
Carbolux	250-355	35	90	250	54.85	96.77	0.566807895	0.6039564	-0.0371
Carbolux	250-355	35	90	180	4.23	96.77	0.043711894	0.0050747	0.03864
Carbolux	250-355	35	90	125	0.67	96.77	0.006923633	6.957E-05	0.00685
Carbolux	250-355	35	90	90	0.12	96.77	0.001240054	0	0.00124
Carbolux	250-355	35	90	63	0.11	96.77	0.001136716	0	0.00114
Carbolux	250-355	35	90	45	0.02	96.77	0.000206676	0	0.00021
Carbolux	250-355	35	90	0	0.01	96.77	0.000103338	0	0.0001
Carbolux	250-355	15	45	2800	0	96.55		0	0
Carbolux	250-355	15	45	2000	0	96.55		0	0
Carbolux	250-355	15	45	1400	0	96.55		0	0

Carbolux 250-355	15	45	1000	0	96.55	0	0	0
Carbolux 250-355	15	45	710	0	96.55	0	0	0
Carbolux 250-355	15	45	500	0	96.55	0	0	0
Carbolux 250-355	15	45	355	35.65	96.55	0.369238736	0.3908993	-0.0217
Carbolux 250-355	15	45	250	59.76	96.55	0.61895391	0.6039564	0.015
Carbolux 250-355	15	45	180	1.09	96.55	0.011289487	0.0050747	0.00621
Carbolux 250-355	15	45	125	0.05	96.55	0.000517866	6.957E-05	0.00045
Carbolux 250-355	15	45	90	0	96.55	0	0	0
Carbolux 250-355	15	45	63	0	96.55	0	0	0
Carbolux 250-355	15	45	45	0	96.55	0	0	0
Carbolux 250-355	15	45	0	0	96.55	0	0	0
Carbolux 250-355	20	45	2800	0	99.15	0	0	0
Carbolux 250-355	20	45	2000	0	99.15	0	0	0
Carbolux 250-355	20	45	1400	0	99.15	0	0	0
Carbolux 250-355	20	45	1000	0	99.15	0	0	0
Carbolux 250-355	20	45	710	0	99.15	0	0	0
Carbolux 250-355	20	45	500	0	99.15	0	0	0
Carbolux 250-355	20	45	355	36.12	99.15	0.36429652	0.3908993	-0.0266
Carbolux 250-355	20	45	250	61.41	99.15	0.619364599	0.6039564	0.01541
Carbolux 250-355	20	45	180	1.55	99.15	0.015632879	0.0050747	0.01056
Carbolux 250-355	20	45	125	0.06	99.15	0.000605144	6.957E-05	0.00054
Carbolux 250-355	20	45	90	0.01	99.15	0.000100857	0	0.0001
Carbolux 250-355	20	45	63	0	99.15	0	0	0
Carbolux 250-355	20	45	45	0	99.15	0	0	0
Carbolux 250-355	20	45	0	0	99.15	0	0	0
Carbolux 250-355	25	45	2800	0	99.62	0	0	0
Carbolux 250-355	25	45	2000	0	99.62	0	0	0
Carbolux 250-355	25	45	1400	0	99.62	0	0	0
Carbolux 250-355	25	45	1000	0	99.62	0	0	0
Carbolux 250-355	25	45	710	0	99.62	0	0	0
Carbolux 250-355	25	45	500	0	99.62	0	0	0
Carbolux 250-355	25	45	355	35.29	99.62	0.354246135	0.3908993	-0.0367
Carbolux 250-355	25	45	250	61.99	99.62	0.622264606	0.6039564	0.01831
Carbolux 250-355	25	45	180	2.11	99.62	0.021180486	0.0050747	0.01611
Carbolux 250-355	25	45	125	0.18	99.62	0.001806866	6.957E-05	0.00174
Carbolux 250-355	25	45	90	0.02	99.62	0.000200763	0	0.0002
Carbolux 250-355	25	45	63	0.03	99.62	0.000301144	0	0.0003
Carbolux 250-355	25	45	45	0	99.62	0	0	0
Carbolux 250-355	25	45	0	0	99.62	0	0	0
Carbolux 250-355	30	45	2800	0	101.53	0	0	0
Carbolux 250-355	30	45	2000	0	101.53	0	0	0
Carbolux 250-355	30	45	1400	0	101.53	0	0	0
Carbolux 250-355	30	45	1000	0	101.53	0	0	0
Carbolux 250-355	30	45	710	0	101.53	0	0	0
Carbolux 250-355	30	45	500	0	101.53	0	0	0
Carbolux 250-355	30	45	355	35.81	101.53	0.352703634	0.3908993	-0.0382
Carbolux 250-355	30	45	250	62.58	101.53	0.616369546	0.6039564	0.01241
Carbolux 250-355	30	45	180	2.77	101.53	0.027282577	0.0050747	0.02221
Carbolux 250-355	30	45	125	0.3	101.53	0.002954792	6.957E-05	0.00289
Carbolux 250-355	30	45	90	0.03	101.53	0.000295479	0	0.0003
Carbolux 250-355	30	45	63	0.04	101.53	0.000393972	0	0.00039
Carbolux 250-355	30	45	45	0	101.53	0	0	0
Carbolux 250-355	30	45	0	0	101.53	0	0	0
Carbolux 250-355	35	45	2800	0	96	0	0	0
Carbolux 250-355	35	45	2000	0	96	0	0	0
Carbolux 250-355	35	45	1400	0	96	0	0	0
Carbolux 250-355	35	45	1000	0	96	0	0	0
Carbolux 250-355	35	45	710	0	96	0	0	0
Carbolux 250-355	35	45	500	0	96	0	0	0
Carbolux 250-355	35	45	355	35.78	96	0.372708333	0.3908993	-0.0182
Carbolux 250-355	35	45	250	56	96	0.583333333	0.6039564	-0.0206
Carbolux 250-355	35	45	180	3.51	96	0.0365625	0.0050747	0.03149
Carbolux 250-355	35	45	125	0.48	96	0.005	6.957E-05	0.00493
Carbolux 250-355	35	45	90	0.07	96	0.000729167	0	0.00073
Carbolux 250-355	35	45	63	0.1	96	0.001041667	0	0.00104
Carbolux 250-355	35	45	45	0.03	96	0.0003125	0	0.00031
Carbolux 250-355	35	45	0	0.03	96	0.0003125	0	0.00031
Carbolux 250-355	15	30	2800	0	100.93	0	0	0
Carbolux 250-355	15	30	2000	0	100.93	0	0	0
Carbolux 250-355	15	30	1400	0	100.93	0	0	0
Carbolux 250-355	15	30	1000	0	100.93	0	0	0
Carbolux 250-355	15	30	710	0	100.93	0	0	0
Carbolux 250-355	15	30	500	0	100.93	0	0	0
Carbolux 250-355	15	30	355	38.28	100.93	0.379272763	0.3908993	-0.0116

Carbolux	250-355	15	30	250	61.44	100.93	0.60873873	0.6039564	0.00478
Carbolux	250-355	15	30	180	1.12	100.93	0.0110968	0.0050747	0.00602
Carbolux	250-355	15	30	125	0.07	100.93	0.00069355	6.957E-05	0.00062
Carbolux	250-355	15	30	90	0	100.93	0	0	0
Carbolux	250-355	15	30	63	0.02	100.93	0.000198157	0	0.0002
Carbolux	250-355	15	30	45	0	100.93	0	0	0
Carbolux	250-355	15	30	0	0	100.93	0	0	0
Carbolux	250-355	20	30	2800	0	102.34	0	0	0
Carbolux	250-355	20	30	2000	0	102.34	0	0	0
Carbolux	250-355	20	30	1400	0	102.34	0	0	0
Carbolux	250-355	20	30	1000	0	102.34	0	0	0
Carbolux	250-355	20	30	710	0	102.34	0	0	0
Carbolux	250-355	20	30	500	0	102.34	0	0	0
Carbolux	250-355	20	30	355	38.16	102.34	0.372874731	0.3908993	-0.018
Carbolux	250-355	20	30	250	62.26	102.34	0.608364276	0.6039564	0.00441
Carbolux	250-355	20	30	180	1.69	102.34	0.016513582	0.0050747	0.01144
Carbolux	250-355	20	30	125	0.14	102.34	0.001367989	6.957E-05	0.0013
Carbolux	250-355	20	30	90	0.05	102.34	0.000488568	0	0.00049
Carbolux	250-355	20	30	63	0.04	102.34	0.000390854	0	0.00039
Carbolux	250-355	20	30	45	0	102.34	0	0	0
Carbolux	250-355	20	30	0	0	102.34	0	0	0
Carbolux	250-355	25	30	2800	0	106.37	0	0	0
Carbolux	250-355	25	30	2000	0	106.37	0	0	0
Carbolux	250-355	25	30	1400	0	106.37	0	0	0
Carbolux	250-355	25	30	1000	0	106.37	0	0	0
Carbolux	250-355	25	30	710	0	106.37	0	0	0
Carbolux	250-355	25	30	500	0	106.37	0	0	0
Carbolux	250-355	25	30	355	38.04	106.37	0.35761963	0.3908993	-0.0333
Carbolux	250-355	25	30	250	65.96	106.37	0.620099652	0.6039564	0.01614
Carbolux	250-355	25	30	180	2.1	106.37	0.019742409	0.0050747	0.01467
Carbolux	250-355	25	30	125	0.2	106.37	0.001880229	6.957E-05	0.00181
Carbolux	250-355	25	30	90	0.03	106.37	0.000282034	0	0.00028
Carbolux	250-355	25	30	63	0.04	106.37	0.000376046	0	0.00038
Carbolux	250-355	25	30	45	0	106.37	0	0	0
Carbolux	250-355	25	30	0	0	106.37	0	0	0
Carbolux	250-355	30	30	2800	0	100.94	0	0	0
Carbolux	250-355	30	30	2000	0	100.94	0	0	0
Carbolux	250-355	30	30	1400	0	100.94	0	0	0
Carbolux	250-355	30	30	1000	0	100.94	0	0	0
Carbolux	250-355	30	30	710	0	100.94	0	0	0
Carbolux	250-355	30	30	500	0	100.94	0	0	0
Carbolux	250-355	30	30	355	36.32	100.94	0.359817713	0.3908993	-0.0311
Carbolux	250-355	30	30	250	61.23	100.94	0.606597979	0.6039564	0.00264
Carbolux	250-355	30	30	180	2.85	100.94	0.028234595	0.0050747	0.02316
Carbolux	250-355	30	30	125	0.36	100.94	0.003566475	6.957E-05	0.0035
Carbolux	250-355	30	30	90	0.06	100.94	0.000594413	0	0.00059
Carbolux	250-355	30	30	63	0.1	100.94	0.000990688	0	0.00099
Carbolux	250-355	30	30	45	0.02	100.94	0.000198138	0	0.0002
Carbolux	250-355	30	30	0	0	100.94	0	0	0
Carbolux	250-355	35	30	2800	0	102.18	0	0	0
Carbolux	250-355	35	30	2000	0	102.18	0	0	0
Carbolux	250-355	35	30	1400	0	102.18	0	0	0
Carbolux	250-355	35	30	1000	0	102.18	0	0	0
Carbolux	250-355	35	30	710	0	102.18	0	0	0
Carbolux	250-355	35	30	500	0	102.18	0	0	0
Carbolux	250-355	35	30	355	34.28	102.18	0.335486397	0.3908993	-0.0554
Carbolux	250-355	35	30	250	63.14	102.18	0.617929145	0.6039564	0.01397
Carbolux	250-355	35	30	180	3.95	102.18	0.038657271	0.0050747	0.03358
Carbolux	250-355	35	30	125	0.55	102.18	0.005382658	6.957E-05	0.00531
Carbolux	250-355	35	30	90	0.09	102.18	0.000880799	0	0.00088
Carbolux	250-355	35	30	63	0.11	102.18	0.001076532	0	0.00108
Carbolux	250-355	35	30	45	0.03	102.18	0.0002936	0	0.00029
Carbolux	250-355	35	30	0	0.03	102.18	0.0002936	0	0.00029
Carbolux	355-500	15	90	2800	0	101.64	0	0	0
Carbolux	355-500	15	90	2000	0	101.64	0	0	0
Carbolux	355-500	15	90	1400	0	101.64	0	0	0
Carbolux	355-500	15	90	1000	0	101.64	0	0	0
Carbolux	355-500	15	90	710	0.02	101.64	0.000196773	0.0001075	8.9E-05
Carbolux	355-500	15	90	500	2.37	101.64	0.023317591	0.0197801	0.00354
Carbolux	355-500	15	90	355	95.06	101.64	0.935261708	0.9446073	-0.0093
Carbolux	355-500	15	90	250	3.79	101.64	0.037288469	0.03353	0.00376
Carbolux	355-500	15	90	180	0.32	101.64	0.003148367	0.0019113	0.00124
Carbolux	355-500	15	90	125	0.06	101.64	0.000590319	6.386E-05	0.00053
Carbolux	355-500	15	90	90	0.01	101.64	9.83865E-05	0	9.8E-05

Carbolux	355-500	15	90	63	0.01	101.64	9.83865E-05	0	9.8E-05
Carbolux	355-500	15	90	45	0	101.64	0	0	0
Carbolux	355-500	15	90	0	0	101.64	0	0	0
Carbolux	355-500	20	90	2800	0	117.44	0	0	0
Carbolux	355-500	20	90	2000	0	117.44	0	0	0
Carbolux	355-500	20	90	1400	0	117.44	0	0	0
Carbolux	355-500	20	90	1000	0	117.44	0	0	0
Carbolux	355-500	20	90	710	0	117.44	0	0.0001075	-0.0001
Carbolux	355-500	20	90	500	2.77	117.44	0.023586512	0.0197801	0.00381
Carbolux	355-500	20	90	355	109.2	117.44	0.929836512	0.9446073	-0.0148
Carbolux	355-500	20	90	250	4.84	117.44	0.041212534	0.03353	0.00768
Carbolux	355-500	20	90	180	0.47	117.44	0.004002044	0.0019113	0.00209
Carbolux	355-500	20	90	125	0.09	117.44	0.000766349	6.386E-05	0.0007
Carbolux	355-500	20	90	90	0.03	117.44	0.00025545	0	0.00026
Carbolux	355-500	20	90	63	0.04	117.44	0.000340599	0	0.00034
Carbolux	355-500	20	90	45	0	117.44	0	0	0
Carbolux	355-500	20	90	0	0	117.44	0	0	0
Carbolux	355-500	25	90	2800	0	118.18	0	0	0
Carbolux	355-500	25	90	2000	0	118.18	0	0	0
Carbolux	355-500	25	90	1400	0	118.18	0	0	0
Carbolux	355-500	25	90	1000	0	118.18	0	0	0
Carbolux	355-500	25	90	710	0	118.18	0	0.0001075	-0.0001
Carbolux	355-500	25	90	500	1.9	118.18	0.01607717	0.0197801	-0.0037
Carbolux	355-500	25	90	355	108.6	118.18	0.918937214	0.9446073	-0.0257
Carbolux	355-500	25	90	250	6.46	118.18	0.054662379	0.03353	0.02113
Carbolux	355-500	25	90	180	0.96	118.18	0.008123202	0.0019113	0.00621
Carbolux	355-500	25	90	125	0.18	118.18	0.0015231	6.386E-05	0.00146
Carbolux	355-500	25	90	90	0.06	118.18	0.0005077	0	0.00051
Carbolux	355-500	25	90	63	0.02	118.18	0.000169233	0	0.00017
Carbolux	355-500	25	90	45	0	118.18	0	0	0
Carbolux	355-500	25	90	0	0	118.18	0	0	0
Carbolux	355-500	30	90	2800	0	99.26	0	0	0
Carbolux	355-500	30	90	2000	0	99.26	0	0	0
Carbolux	355-500	30	90	1400	0	99.26	0	0	0
Carbolux	355-500	30	90	1000	0	99.26	0	0	0
Carbolux	355-500	30	90	710	0	99.26	0	0.0001075	-0.0001
Carbolux	355-500	30	90	500	1.69	99.26	0.017025992	0.0197801	-0.0028
Carbolux	355-500	30	90	355	87.83	99.26	0.884847874	0.9446073	-0.0598
Carbolux	355-500	30	90	250	8.18	99.26	0.082409833	0.03353	0.04888
Carbolux	355-500	30	90	180	1.18	99.26	0.011887971	0.0019113	0.00998
Carbolux	355-500	30	90	125	0.23	99.26	0.002317147	6.386E-05	0.00225
Carbolux	355-500	30	90	90	0.05	99.26	0.000503728	0	0.0005
Carbolux	355-500	30	90	63	0.07	99.26	0.000705219	0	0.00071
Carbolux	355-500	30	90	45	0.03	99.26	0.000302237	0	0.0003
Carbolux	355-500	30	90	0	0	99.26	0	0	0
Carbolux	355-500	35	90	2800	0	92.64	0	0	0
Carbolux	355-500	35	90	2000	0	92.64	0	0	0
Carbolux	355-500	35	90	1400	0	92.64	0	0	0
Carbolux	355-500	35	90	1000	0	92.64	0	0	0
Carbolux	355-500	35	90	710	0	92.64	0	0.0001075	-0.0001
Carbolux	355-500	35	90	500	1.36	92.64	0.014680484	0.0197801	-0.0051
Carbolux	355-500	35	90	355	80.15	92.64	0.865177029	0.9446073	-0.0794
Carbolux	355-500	35	90	250	8.83	92.64	0.095315199	0.03353	0.06179
Carbolux	355-500	35	90	180	1.62	92.64	0.017487047	0.0019113	0.01558
Carbolux	355-500	35	90	125	0.35	92.64	0.003778066	6.386E-05	0.00371
Carbolux	355-500	35	90	90	0.1	92.64	0.001079447	0	0.00108
Carbolux	355-500	35	90	63	0.13	92.64	0.001403282	0	0.0014
Carbolux	355-500	35	90	45	0.1	92.64	0.001079447	0	0.00108
Carbolux	355-500	35	90	0	0	92.64	0	0	0
Carbolux	355-500	15	45	2800	0	94.55	0	0	0
Carbolux	355-500	15	45	2000	0	94.55	0	0	0
Carbolux	355-500	15	45	1400	0	94.55	0	0	0
Carbolux	355-500	15	45	1000	0	94.55	0	0	0
Carbolux	355-500	15	45	710	0	94.55	0	0.0001075	-0.0001
Carbolux	355-500	15	45	500	2.45	94.55	0.025912216	0.0197801	0.00613
Carbolux	355-500	15	45	355	88.25	94.55	0.933368588	0.9446073	-0.0112
Carbolux	355-500	15	45	250	3.61	94.55	0.038180857	0.03353	0.00465
Carbolux	355-500	15	45	180	0.21	94.55	0.002221047	0.0019113	0.00031
Carbolux	355-500	15	45	125	0.02	94.55	0.000211528	6.386E-05	0.00015
Carbolux	355-500	15	45	90	0	94.55	0	0	0
Carbolux	355-500	15	45	63	0.01	94.55	0.000105764	0	0.00011
Carbolux	355-500	15	45	45	0	94.55	0	0	0
Carbolux	355-500	15	45	0	0	94.55	0	0	0
Carbolux	355-500	20	45	2800	0	106.42	0	0	0

Carbolux	355-500	20	45	2000	0	106.42	0	0	0
Carbolux	355-500	20	45	1400	0	106.42	0	0	0
Carbolux	355-500	20	45	1000	0	106.42	0	0	0
Carbolux	355-500	20	45	710	0	106.42	0	0.0001075	-0.0001
Carbolux	355-500	20	45	500	2.32	106.42	0.021800413	0.0197801	0.00202
Carbolux	355-500	20	45	355	99.2	106.42	0.932155561	0.9446073	-0.0125
Carbolux	355-500	20	45	250	4.33	106.42	0.040687841	0.03353	0.00716
Carbolux	355-500	20	45	180	0.46	106.42	0.004322496	0.0019113	0.00241
Carbolux	355-500	20	45	125	0.08	106.42	0.000751738	6.386E-05	0.00069
Carbolux	355-500	20	45	90	0.02	106.42	0.000187935	0	0.00019
Carbolux	355-500	20	45	63	0.01	106.42	9.39673E-05	0	9.4E-05
Carbolux	355-500	20	45	45	0	106.42	0	0	0
Carbolux	355-500	20	45	0	0	106.42	0	0	0
Carbolux	355-500	25	45	2800	0	91.62	0	0	0
Carbolux	355-500	25	45	2000	0	91.62	0	0	0
Carbolux	355-500	25	45	1400	0	91.62	0	0	0
Carbolux	355-500	25	45	1000	0	91.62	0	0	0
Carbolux	355-500	25	45	710	0	91.62	0	0.0001075	-0.0001
Carbolux	355-500	25	45	500	2.15	91.62	0.023466492	0.0197801	0.00369
Carbolux	355-500	25	45	355	83.8	91.62	0.914647457	0.9446073	-0.03
Carbolux	355-500	25	45	250	4.75	91.62	0.051844575	0.03353	0.01831
Carbolux	355-500	25	45	180	0.71	91.62	0.0077494	0.0019113	0.00584
Carbolux	355-500	25	45	125	0.13	91.62	0.001418904	6.386E-05	0.00136
Carbolux	355-500	25	45	90	0.04	91.62	0.000436586	0	0.00044
Carbolux	355-500	25	45	63	0.03	91.62	0.000327439	0	0.00033
Carbolux	355-500	25	45	45	0.01	91.62	0.000109146	0	0.00011
Carbolux	355-500	25	45	0	0	91.62	0	0	0
Carbolux	355-500	30	45	2800	0	103.06	0	0	0
Carbolux	355-500	30	45	2000	0	103.06	0	0	0
Carbolux	355-500	30	45	1400	0	103.06	0	0	0
Carbolux	355-500	30	45	1000	0	103.06	0	0	0
Carbolux	355-500	30	45	710	0	103.06	0	0.0001075	-0.0001
Carbolux	355-500	30	45	500	2.21	103.06	0.021443819	0.0197801	0.00166
Carbolux	355-500	30	45	355	93.45	103.06	0.906753348	0.9446073	-0.0379
Carbolux	355-500	30	45	250	5.94	103.06	0.057636328	0.03353	0.02411
Carbolux	355-500	30	45	180	0.97	103.06	0.009411993	0.0019113	0.0075
Carbolux	355-500	30	45	125	0.26	103.06	0.002522802	6.386E-05	0.00246
Carbolux	355-500	30	45	90	0.06	103.06	0.000582185	0	0.00058
Carbolux	355-500	30	45	63	0.07	103.06	0.000679216	0	0.00068
Carbolux	355-500	30	45	45	0.1	103.06	0.000970309	0	0.00097
Carbolux	355-500	30	45	0	0	103.06	0	0	0
Carbolux	355-500	35	45	2800	0	98.8	0	0	0
Carbolux	355-500	35	45	2000	0	98.8	0	0	0
Carbolux	355-500	35	45	1400	0	98.8	0	0	0
Carbolux	355-500	35	45	1000	0	98.8	0	0	0
Carbolux	355-500	35	45	710	0	98.8	0	0.0001075	-0.0001
Carbolux	355-500	35	45	500	1.04	98.8	0.010526316	0.0197801	-0.0093
Carbolux	355-500	35	45	355	87.96	98.8	0.890283401	0.9446073	-0.0543
Carbolux	355-500	35	45	250	7.96	98.8	0.080566802	0.03353	0.04704
Carbolux	355-500	35	45	180	1.27	98.8	0.012854251	0.0019113	0.01094
Carbolux	355-500	35	45	125	0.3	98.8	0.003036437	6.386E-05	0.00297
Carbolux	355-500	35	45	90	0.1	98.8	0.001012146	0	0.00101
Carbolux	355-500	35	45	63	0.13	98.8	0.001315789	0	0.00132
Carbolux	355-500	35	45	45	0.02	98.8	0.000202429	0	0.0002
Carbolux	355-500	35	45	0	0.02	98.8	0.000202429	0	0.0002
Carbolux	355-500	15	30	2800	0	120.05	0	0	0
Carbolux	355-500	15	30	2000	0	120.05	0	0	0
Carbolux	355-500	15	30	1400	0	120.05	0	0	0
Carbolux	355-500	15	30	1000	0	120.05	0	0	0
Carbolux	355-500	15	30	710	0	120.05	0	0.0001075	-0.0001
Carbolux	355-500	15	30	500	2.75	120.05	0.022907122	0.0197801	0.00313
Carbolux	355-500	15	30	355	112.38	120.05	0.936109954	0.9446073	-0.0085
Carbolux	355-500	15	30	250	4.39	120.05	0.036568097	0.03353	0.00304
Carbolux	355-500	15	30	180	0.33	120.05	0.002748855	0.0019113	0.00084
Carbolux	355-500	15	30	125	0.2	120.05	0.001665973	6.386E-05	0.0016
Carbolux	355-500	15	30	90	0	120.05	0	0	0
Carbolux	355-500	15	30	63	0	120.05	0	0	0
Carbolux	355-500	15	30	45	0	120.05	0	0	0
Carbolux	355-500	15	30	0	0	120.05	0	0	0
Carbolux	355-500	20	30	2800	0	119.41	0	0	0
Carbolux	355-500	20	30	2000	0	119.41	0	0	0
Carbolux	355-500	20	30	1400	0	119.41	0	0	0
Carbolux	355-500	20	30	1000	0	119.41	0	0	0
Carbolux	355-500	20	30	710	0	119.41	0	0.0001075	-0.0001

Carbolux	355-500	20	30	500	2.93	119.41	0.024537308	0.0197801	0.00476
Carbolux	355-500	20	30	355	111.11	119.41	0.930491584	0.9446073	-0.0141
Carbolux	355-500	20	30	250	4.7	119.41	0.039360188	0.03353	0.00583
Carbolux	355-500	20	30	180	0.49	119.41	0.004103509	0.0019113	0.00219
Carbolux	355-500	20	30	125	0.13	119.41	0.001088686	6.386E-05	0.00102
Carbolux	355-500	20	30	90	0.03	119.41	0.000251235	0	0.00025
Carbolux	355-500	20	30	63	0.02	119.41	0.00016749	0	0.00017
Carbolux	355-500	20	30	45	0	119.41	0	0	0
Carbolux	355-500	20	30	0	0	119.41	0	0	0
Carbolux	355-500	25	30	2800	0	104.72	0	0	0
Carbolux	355-500	25	30	2000	0	104.72	0	0	0
Carbolux	355-500	25	30	1400	0	104.72	0	0	0
Carbolux	355-500	25	30	1000	0	104.72	0	0	0
Carbolux	355-500	25	30	710	0	104.72	0	0.0001075	-0.0001
Carbolux	355-500	25	30	500	1.87	104.72	0.017857143	0.0197801	-0.0019
Carbolux	355-500	25	30	355	96.15	104.72	0.91816272	0.9446073	-0.0264
Carbolux	355-500	25	30	250	5.76	104.72	0.05500382	0.03353	0.02147
Carbolux	355-500	25	30	180	0.78	104.72	0.007448434	0.0019113	0.00554
Carbolux	355-500	25	30	125	0.11	104.72	0.00105042	6.386E-05	0.00099
Carbolux	355-500	25	30	90	0.02	104.72	0.000190985	0	0.00019
Carbolux	355-500	25	30	63	0.03	104.72	0.000286478	0	0.00029
Carbolux	355-500	25	30	45	0	104.72	0	0	0
Carbolux	355-500	25	30	0	0	104.72	0	0	0
Carbolux	355-500	30	30	2800	0	99.44	0	0	0
Carbolux	355-500	30	30	2000	0	99.44	0	0	0
Carbolux	355-500	30	30	1400	0	99.44	0	0	0
Carbolux	355-500	30	30	1000	0	99.44	0	0	0
Carbolux	355-500	30	30	710	0	99.44	0	0.0001075	-0.0001
Carbolux	355-500	30	30	500	1.18	99.44	0.011866452	0.0197801	-0.0079
Carbolux	355-500	30	30	355	89.68	99.44	0.901850362	0.9446073	-0.0428
Carbolux	355-500	30	30	250	7	99.44	0.070394208	0.03353	0.03686
Carbolux	355-500	30	30	180	1.14	99.44	0.0114642	0.0019113	0.00955
Carbolux	355-500	30	30	125	0.24	99.44	0.002413516	6.386E-05	0.00235
Carbolux	355-500	30	30	90	0.08	99.44	0.000804505	0	0.0008
Carbolux	355-500	30	30	63	0.09	99.44	0.000905068	0	0.00091
Carbolux	355-500	30	30	45	0.03	99.44	0.000301689	0	0.0003
Carbolux	355-500	30	30	0	0	99.44	0	0	0
Carbolux	355-500	35	30	2800	0	107.82	0	0	0
Carbolux	355-500	35	30	2000	0	107.82	0	0	0
Carbolux	355-500	35	30	1400	0	107.82	0	0	0
Carbolux	355-500	35	30	1000	0	107.82	0	0	0
Carbolux	355-500	35	30	710	0	107.82	0	0.0001075	-0.0001
Carbolux	355-500	35	30	500	1.48	107.82	0.013726581	0.0197801	-0.0061
Carbolux	355-500	35	30	355	95.77	107.82	0.888239659	0.9446073	-0.0564
Carbolux	355-500	35	30	250	8.76	107.82	0.081246522	0.03353	0.04772
Carbolux	355-500	35	30	180	1.4	107.82	0.012984604	0.0019113	0.01107
Carbolux	355-500	35	30	125	0.26	107.82	0.002411426	6.386E-05	0.00235
Carbolux	355-500	35	30	90	0.07	107.82	0.00064923	0	0.00065
Carbolux	355-500	35	30	63	0.08	107.82	0.000741977	0	0.00074
Carbolux	355-500	35	30	45	0	107.82	0	0	0
Carbolux	355-500	35	30	0	0	107.82	0	0	0
Carbolux	500-710	15	90	2800	0	104.64	0	0	0
Carbolux	500-710	15	90	2000	0	104.64	0	0	0
Carbolux	500-710	15	90	1400	0	104.64	0	0	0
Carbolux	500-710	15	90	1000	0	104.64	0	0	0
Carbolux	500-710	15	90	710	1.9	104.64	0.018157492	0.0186224	-0.0005
Carbolux	500-710	15	90	500	80.21	104.64	0.766532875	0.8181066	-0.0516
Carbolux	500-710	15	90	355	21.15	104.64	0.20212156	0.1600331	0.04209
Carbolux	500-710	15	90	250	0.84	104.64	0.008027523	0.0027435	0.00528
Carbolux	500-710	15	90	180	0.28	104.64	0.002675841	0.0004288	0.00225
Carbolux	500-710	15	90	125	0.15	104.64	0.001433486	6.561E-05	0.00137
Carbolux	500-710	15	90	90	0.05	104.64	0.000477829	0	0.00048
Carbolux	500-710	15	90	63	0.06	104.64	0.000573394	0	0.00057
Carbolux	500-710	15	90	45	0	104.64	0	0	0
Carbolux	500-710	15	90	0	0	104.64	0	0	0
Carbolux	500-710	20	90	2800	0	103.4	0	0	0
Carbolux	500-710	20	90	2000	0	103.4	0	0	0
Carbolux	500-710	20	90	1400	0	103.4	0	0	0
Carbolux	500-710	20	90	1000	0	103.4	0	0	0
Carbolux	500-710	20	90	710	1.03	103.4	0.009961315	0.0186224	-0.0087
Carbolux	500-710	20	90	500	71.39	103.4	0.690425532	0.8181066	-0.1277
Carbolux	500-710	20	90	355	28.37	103.4	0.274371373	0.1600331	0.11434
Carbolux	500-710	20	90	250	1.68	103.4	0.016247582	0.0027435	0.0135
Carbolux	500-710	20	90	180	0.46	103.4	0.004448743	0.0004288	0.00402

Carbolux	500-710	20	90	125	0.21	103.4	0.002030948	6.561E-05	0.00197
Carbolux	500-710	20	90	90	0.07	103.4	0.000676983	0	0.00068
Carbolux	500-710	20	90	63	0.1	103.4	0.000967118	0	0.00097
Carbolux	500-710	20	90	45	0.05	103.4	0.000483559	0	0.00048
Carbolux	500-710	20	90	0	0.04	103.4	0.000386847	0	0.00039
Carbolux	500-710	25	90	2800	0	105.68	0	0	0
Carbolux	500-710	25	90	2000	0	105.68	0	0	0
Carbolux	500-710	25	90	1400	0	105.68	0	0	0
Carbolux	500-710	25	90	1000	0	105.68	0	0	0
Carbolux	500-710	25	90	710	0.74	105.68	0.007002271	0.0186224	-0.0116
Carbolux	500-710	25	90	500	65.12	105.68	0.616199849	0.8181066	-0.2019
Carbolux	500-710	25	90	355	35.23	105.68	0.333364875	0.1600331	0.17333
Carbolux	500-710	25	90	250	2.95	105.68	0.027914459	0.0027435	0.02517
Carbolux	500-710	25	90	180	0.84	105.68	0.007948524	0.0004288	0.00752
Carbolux	500-710	25	90	125	0.36	105.68	0.00340651	6.561E-05	0.00334
Carbolux	500-710	25	90	90	0.14	105.68	0.001324754	0	0.00132
Carbolux	500-710	25	90	63	0.2	105.68	0.001892506	0	0.00189
Carbolux	500-710	25	90	45	0.04	105.68	0.000378501	0	0.00038
Carbolux	500-710	25	90	0	0.06	105.68	0.000567752	0	0.00057
Carbolux	500-710	30	90	2800	0	102.76	0	0	0
Carbolux	500-710	30	90	2000	0	102.76	0	0	0
Carbolux	500-710	30	90	1400	0	102.76	0	0	0
Carbolux	500-710	30	90	1000	0	102.76	0	0	0
Carbolux	500-710	30	90	710	0.6	102.76	0.005838848	0.0186224	-0.0128
Carbolux	500-710	30	90	500	55.88	102.76	0.543791359	0.8181066	-0.2743
Carbolux	500-710	30	90	355	39.88	102.76	0.38808875	0.1600331	0.22806
Carbolux	500-710	30	90	250	4.29	102.76	0.041747762	0.0027435	0.039
Carbolux	500-710	30	90	180	1.07	102.76	0.010412612	0.0004288	0.00998
Carbolux	500-710	30	90	125	0.55	102.76	0.005352277	6.561E-05	0.00529
Carbolux	500-710	30	90	90	0.16	102.76	0.001557026	0	0.00156
Carbolux	500-710	30	90	63	0.26	102.76	0.002530167	0	0.00253
Carbolux	500-710	30	90	45	0.03	102.76	0.000291942	0	0.00029
Carbolux	500-710	30	90	0	0.04	102.76	0.000389257	0	0.00039
Carbolux	500-710	35	90	2800	0	101.53	0	0	0
Carbolux	500-710	35	90	2000	0	101.53	0	0	0
Carbolux	500-710	35	90	1400	0	101.53	0	0	0
Carbolux	500-710	35	90	1000	0	101.53	0	0	0
Carbolux	500-710	35	90	710	0.57	101.53	0.005614104	0.0186224	-0.013
Carbolux	500-710	35	90	500	47.45	101.53	0.467349552	0.8181066	-0.3508
Carbolux	500-710	35	90	355	44.56	101.53	0.438885059	0.1600331	0.27885
Carbolux	500-710	35	90	250	5.65	101.53	0.055648577	0.0027435	0.05291
Carbolux	500-710	35	90	180	1.73	101.53	0.017039299	0.0004288	0.01661
Carbolux	500-710	35	90	125	0.75	101.53	0.007386979	6.561E-05	0.00732
Carbolux	500-710	35	90	90	0.28	101.53	0.002757806	0	0.00276
Carbolux	500-710	35	90	63	0.46	101.53	0.004530681	0	0.00453
Carbolux	500-710	35	90	45	0.03	101.53	0.000295479	0	0.0003
Carbolux	500-710	35	90	0	0.05	101.53	0.000492465	0	0.00049
Carbolux	500-710	15	45	2800	0	98.93	0	0	0
Carbolux	500-710	15	45	2000	0	98.93	0	0	0
Carbolux	500-710	15	45	1400	0	98.93	0	0	0
Carbolux	500-710	15	45	1000	0	98.93	0	0	0
Carbolux	500-710	15	45	710	1.13	98.93	0.011422218	0.0186224	-0.0072
Carbolux	500-710	15	45	500	75.75	98.93	0.765692914	0.8181066	-0.0524
Carbolux	500-710	15	45	355	20.82	98.93	0.210451835	0.1600331	0.05042
Carbolux	500-710	15	45	250	0.81	98.93	0.008187607	0.0027435	0.00544
Carbolux	500-710	15	45	180	0.23	98.93	0.002324876	0.0004288	0.0019
Carbolux	500-710	15	45	125	0.12	98.93	0.001212979	6.561E-05	0.00115
Carbolux	500-710	15	45	90	0.02	98.93	0.000202163	0	0.0002
Carbolux	500-710	15	45	63	0.05	98.93	0.000505408	0	0.00051
Carbolux	500-710	15	45	45	0	98.93	0	0	0
Carbolux	500-710	15	45	0	0	98.93	0	0	0
Carbolux	500-710	20	45	2800	0	98.88	0	0	0
Carbolux	500-710	20	45	2000	0	98.88	0	0	0
Carbolux	500-710	20	45	1400	0	98.88	0	0	0
Carbolux	500-710	20	45	1000	0	98.88	0	0	0
Carbolux	500-710	20	45	710	1.01	98.88	0.010214401	0.0186224	-0.0084
Carbolux	500-710	20	45	500	70.34	98.88	0.711367314	0.8181066	-0.1067
Carbolux	500-710	20	45	355	25.38	98.88	0.256674757	0.1600331	0.09664
Carbolux	500-710	20	45	250	1.4	98.88	0.014158576	0.0027435	0.01142
Carbolux	500-710	20	45	180	0.39	98.88	0.003944175	0.0004288	0.00352
Carbolux	500-710	20	45	125	0.21	98.88	0.002123786	6.561E-05	0.00206
Carbolux	500-710	20	45	90	0.1	98.88	0.001011327	0	0.00101
Carbolux	500-710	20	45	63	0.05	98.88	0.000505663	0	0.00051
Carbolux	500-710	20	45	45	0	98.88	0	0	0

Carbolux 500-710	20	45	0	0	98.88	0	0	0
Carbolux 500-710	25	45	2800	0	99.25	0	0	0
Carbolux 500-710	25	45	2000	0	99.25	0	0	0
Carbolux 500-710	25	45	1400	0	99.25	0	0	0
Carbolux 500-710	25	45	1000	0	99.25	0	0	0
Carbolux 500-710	25	45	710	0.81	99.25	0.008161209	0.0186224	-0.0105
Carbolux 500-710	25	45	500	64.39	99.25	0.648765743	0.8181066	-0.1693
Carbolux 500-710	25	45	355	30.38	99.25	0.306095718	0.1600331	0.14606
Carbolux 500-710	25	45	250	2.23	99.25	0.022468514	0.0027435	0.01973
Carbolux 500-710	25	45	180	0.69	99.25	0.006952141	0.0004288	0.00652
Carbolux 500-710	25	45	125	0.33	99.25	0.003324937	6.561E-05	0.00326
Carbolux 500-710	25	45	90	0.13	99.25	0.001309824	0	0.00131
Carbolux 500-710	25	45	63	0.16	99.25	0.001612091	0	0.00161
Carbolux 500-710	25	45	45	0.05	99.25	0.000503778	0	0.0005
Carbolux 500-710	25	45	0	0.08	99.25	0.000806045	0	0.00081
Carbolux 500-710	30	45	2800	0	101.24	0	0	0
Carbolux 500-710	30	45	2000	0	101.24	0	0	0
Carbolux 500-710	30	45	1400	0	101.24	0	0	0
Carbolux 500-710	30	45	1000	0	101.24	0	0	0
Carbolux 500-710	30	45	710	0.62	101.24	0.006124062	0.0186224	-0.0125
Carbolux 500-710	30	45	500	60.13	101.24	0.593935203	0.8181066	-0.2242
Carbolux 500-710	30	45	355	35.52	101.24	0.350849467	0.1600331	0.19082
Carbolux 500-710	30	45	250	3.36	101.24	0.033188463	0.0027435	0.03044
Carbolux 500-710	30	45	180	0.9	101.24	0.008889767	0.0004288	0.00846
Carbolux 500-710	30	45	125	0.39	101.24	0.003852232	6.561E-05	0.00379
Carbolux 500-710	30	45	90	0.12	101.24	0.001185302	0	0.00119
Carbolux 500-710	30	45	63	0.2	101.24	0.001975504	0	0.00198
Carbolux 500-710	30	45	45	0	101.24	0	0	0
Carbolux 500-710	30	45	0	0	101.24	0	0	0
Carbolux 500-710	35	45	2800	0	99.98	0	0	0
Carbolux 500-710	35	45	2000	0	99.98	0	0	0
Carbolux 500-710	35	45	1400	0	99.98	0	0	0
Carbolux 500-710	35	45	1000	0	99.98	0	0	0
Carbolux 500-710	35	45	710	0.67	99.98	0.00670134	0.0186224	-0.0119
Carbolux 500-710	35	45	500	53.89	99.98	0.539007802	0.8181066	-0.2791
Carbolux 500-710	35	45	355	38.91	99.98	0.389177836	0.1600331	0.22914
Carbolux 500-710	35	45	250	4.36	99.98	0.043608722	0.0027435	0.04087
Carbolux 500-710	35	45	180	1.22	99.98	0.01220244	0.0004288	0.01177
Carbolux 500-710	35	45	125	0.52	99.98	0.00520104	6.561E-05	0.00514
Carbolux 500-710	35	45	90	0.19	99.98	0.00190038	0	0.0019
Carbolux 500-710	35	45	63	0.21	99.98	0.00210042	0	0.0021
Carbolux 500-710	35	45	45	0	99.98	0	0	0
Carbolux 500-710	35	45	0	0.01	99.98	0.00010002	0	0.0001
Carbolux 500-710	15	30	2800	0	99.9	0	0	0
Carbolux 500-710	15	30	2000	0	99.9	0	0	0
Carbolux 500-710	15	30	1400	0	99.9	0	0	0
Carbolux 500-710	15	30	1000	0	99.9	0	0	0
Carbolux 500-710	15	30	710	1.46	99.9	0.014614615	0.0186224	-0.004
Carbolux 500-710	15	30	500	75.12	99.9	0.751951952	0.8181066	-0.0662
Carbolux 500-710	15	30	355	21.51	99.9	0.215315315	0.1600331	0.05528
Carbolux 500-710	15	30	250	1.01	99.9	0.01011011	0.0027435	0.00737
Carbolux 500-710	15	30	180	0.39	99.9	0.003903904	0.0004288	0.00348
Carbolux 500-710	15	30	125	0.22	99.9	0.002202202	6.561E-05	0.00214
Carbolux 500-710	15	30	90	0.07	99.9	0.000700701	0	0.0007
Carbolux 500-710	15	30	63	0.09	99.9	0.000900901	0	0.0009
Carbolux 500-710	15	30	45	0.03	99.9	0.0003003	0	0.0003
Carbolux 500-710	15	30	0	0	99.9	0	0	0
Carbolux 500-710	20	30	2800	0	97.56	0	0	0
Carbolux 500-710	20	30	2000	0	97.56	0	0	0
Carbolux 500-710	20	30	1400	0	97.56	0	0	0
Carbolux 500-710	20	30	1000	0	97.56	0	0	0
Carbolux 500-710	20	30	710	1.16	97.56	0.011890119	0.0186224	-0.0067
Carbolux 500-710	20	30	500	66.93	97.56	0.68603936	0.8181066	-0.1321
Carbolux 500-710	20	30	355	26.74	97.56	0.274087741	0.1600331	0.11405
Carbolux 500-710	20	30	250	1.63	97.56	0.016707667	0.0027435	0.01396
Carbolux 500-710	20	30	180	0.57	97.56	0.005842558	0.0004288	0.00541
Carbolux 500-710	20	30	125	0.29	97.56	0.00297253	6.561E-05	0.00291
Carbolux 500-710	20	30	90	0.09	97.56	0.000922509	0	0.00092
Carbolux 500-710	20	30	63	0.12	97.56	0.001230012	0	0.00123
Carbolux 500-710	20	30	45	0.02	97.56	0.000205002	0	0.00021
Carbolux 500-710	20	30	0	0.01	97.56	0.000102501	0	0.0001
Carbolux 500-710	25	30	2800	0	101.67	0	0	0
Carbolux 500-710	25	30	2000	0	101.67	0	0	0
Carbolux 500-710	25	30	1400	0	101.67	0	0	0

Carbolux 500-710	25	30	1000	0	101.67	0	0	0
Carbolux 500-710	25	30	710	0.75	101.67	0.007376807	0.0186224	-0.0112
Carbolux 500-710	25	30	500	63.02	101.67	0.61984853	0.8181066	-0.1983
Carbolux 500-710	25	30	355	33.47	101.67	0.329202321	0.1600331	0.16917
Carbolux 500-710	25	30	250	2.77	101.67	0.027245008	0.0027435	0.0245
Carbolux 500-710	25	30	180	0.82	101.67	0.008065309	0.0004288	0.00764
Carbolux 500-710	25	30	125	0.4	101.67	0.003934297	6.561E-05	0.00387
Carbolux 500-710	25	30	90	0.15	101.67	0.001475361	0	0.00148
Carbolux 500-710	25	30	63	0.18	101.67	0.001770434	0	0.00177
Carbolux 500-710	25	30	45	0.05	101.67	0.000491787	0	0.00049
Carbolux 500-710	25	30	0	0.06	101.67	0.000590145	0	0.00059
Carbolux 500-710	30	30	2800	0	98.9	0	0	0
Carbolux 500-710	30	30	2000	0	98.9	0	0	0
Carbolux 500-710	30	30	1400	0	98.9	0	0	0
Carbolux 500-710	30	30	1000	0	98.9	0	0	0
Carbolux 500-710	30	30	710	0.67	98.9	0.00677452	0.0186224	-0.0118
Carbolux 500-710	30	30	500	55.31	98.9	0.559251769	0.8181066	-0.2589
Carbolux 500-710	30	30	355	37.05	98.9	0.374620829	0.1600331	0.21459
Carbolux 500-710	30	30	250	3.75	98.9	0.037917088	0.0027435	0.03517
Carbolux 500-710	30	30	180	1.1	98.9	0.011122346	0.0004288	0.01069
Carbolux 500-710	30	30	125	0.49	98.9	0.004954499	6.561E-05	0.00489
Carbolux 500-710	30	30	90	0.19	98.9	0.001921132	0	0.00192
Carbolux 500-710	30	30	63	0.26	98.9	0.002628918	0	0.00263
Carbolux 500-710	30	30	45	0.03	98.9	0.000303337	0	0.0003
Carbolux 500-710	30	30	0	0.05	98.9	0.000505561	0	0.00051
Carbolux 500-710	35	30	2800	0	103.66	0	0	0
Carbolux 500-710	35	30	2000	0	103.66	0	0	0
Carbolux 500-710	35	30	1400	0	103.66	0	0	0
Carbolux 500-710	35	30	1000	0	103.66	0	0	0
Carbolux 500-710	35	30	710	0.57	103.66	0.005498746	0.0186224	-0.0131
Carbolux 500-710	35	30	500	50.67	103.66	0.48880957	0.8181066	-0.3293
Carbolux 500-710	35	30	355	43.81	103.66	0.42263168	0.1600331	0.2626
Carbolux 500-710	35	30	250	5.6	103.66	0.054022767	0.0027435	0.05128
Carbolux 500-710	35	30	180	1.52	103.66	0.014663322	0.0004288	0.01423
Carbolux 500-710	35	30	125	0.75	103.66	0.007235192	6.561E-05	0.00717
Carbolux 500-710	35	30	90	0.25	103.66	0.002411731	0	0.00241
Carbolux 500-710	35	30	63	0.4	103.66	0.003858769	0	0.00386
Carbolux 500-710	35	30	45	0.04	103.66	0.000385877	0	0.00039
Carbolux 500-710	35	30	0	0.05	103.66	0.000482346	0	0.00048
Carbolux 710-1000	15	90	2800	0	117.02	0	0	0
Carbolux 710-1000	15	90	2000	0	117.02	0	0	0
Carbolux 710-1000	15	90	1400	0	117.02	0	0	0
Carbolux 710-1000	15	90	1000	0.21	117.02	0.001794565	0.0099288	-0.0081
Carbolux 710-1000	15	90	710	52.97	117.02	0.452657665	0.9775152	-0.5249
Carbolux 710-1000	15	90	500	34.85	117.02	0.29781234	0.0124165	0.2854
Carbolux 710-1000	15	90	355	17.81	117.02	0.152196206	0.0001395	0.15206
Carbolux 710-1000	15	90	250	3.53	117.02	0.030165784	0	0.03017
Carbolux 710-1000	15	90	180	2.78	117.02	0.023756623	0	0.02376
Carbolux 710-1000	15	90	125	2.16	117.02	0.018458383	0	0.01846
Carbolux 710-1000	15	90	90	0.91	117.02	0.007776448	0	0.00778
Carbolux 710-1000	15	90	63	1	117.02	0.008545548	0	0.00855
Carbolux 710-1000	15	90	45	0.4	117.02	0.003418219	0	0.00342
Carbolux 710-1000	15	90	0	0.4	117.02	0.003418219	0	0.00342
Carbolux 710-1000	20	90	2800	0	123	0	0	0
Carbolux 710-1000	20	90	2000	0	123	0	0	0
Carbolux 710-1000	20	90	1400	0	123	0	0	0
Carbolux 710-1000	20	90	1000	0.18	123	0.001463415	0.0099288	-0.0085
Carbolux 710-1000	20	90	710	49.46	123	0.402113821	0.9775152	-0.5754
Carbolux 710-1000	20	90	500	39.7	123	0.322764228	0.0124165	0.31035
Carbolux 710-1000	20	90	355	20.25	123	0.164634146	0.0001395	0.16449
Carbolux 710-1000	20	90	250	4.55	123	0.03699187	0	0.03699
Carbolux 710-1000	20	90	180	3.24	123	0.026341463	0	0.02634
Carbolux 710-1000	20	90	125	2.5	123	0.020325203	0	0.02033
Carbolux 710-1000	20	90	90	0.91	123	0.007398374	0	0.0074
Carbolux 710-1000	20	90	63	1.19	123	0.009674797	0	0.00967
Carbolux 710-1000	20	90	45	0.5	123	0.004065041	0	0.00407
Carbolux 710-1000	20	90	0	0.52	123	0.004227642	0	0.00423
Carbolux 710-1000	25	90	2800	0	95.46	0	0	0
Carbolux 710-1000	25	90	2000	0	95.46	0	0	0
Carbolux 710-1000	25	90	1400	0	95.46	0	0	0
Carbolux 710-1000	25	90	1000	0.11	95.46	0.001152315	0.0099288	-0.0088
Carbolux 710-1000	25	90	710	35.11	95.46	0.367798031	0.9775152	-0.6097
Carbolux 710-1000	25	90	500	32.92	95.46	0.344856484	0.0124165	0.33244
Carbolux 710-1000	25	90	355	16.67	95.46	0.174628116	0.0001395	0.17449

Carbolux	710-1000	25	90	250	3.39	95.46	0.035512256	0	0.03551
Carbolux	710-1000	25	90	180	2.57	95.46	0.026922271	0	0.02692
Carbolux	710-1000	25	90	125	2.01	95.46	0.02105594	0	0.02106
Carbolux	710-1000	25	90	90	0.81	95.46	0.008485229	0	0.00849
Carbolux	710-1000	25	90	63	1.13	95.46	0.011837419	0	0.01184
Carbolux	710-1000	25	90	45	0.34	95.46	0.003561701	0	0.00356
Carbolux	710-1000	25	90	0	0.4	95.46	0.004190237	0	0.00419
Carbolux	710-1000	30	90	2800	0	121.88	0	0	0
Carbolux	710-1000	30	90	2000	0	121.88	0	0	0
Carbolux	710-1000	30	90	1400	0	121.88	0	0	0
Carbolux	710-1000	30	90	1000	0.11	121.88	0.000902527	0.0099288	-0.009
Carbolux	710-1000	30	90	710	39.78	121.88	0.32638661	0.9775152	-0.6511
Carbolux	710-1000	30	90	500	46.32	121.88	0.380045947	0.0124165	0.36763
Carbolux	710-1000	30	90	355	21.95	121.88	0.180095176	0.0001395	0.17996
Carbolux	710-1000	30	90	250	4.43	121.88	0.036347227	0	0.03635
Carbolux	710-1000	30	90	180	3.24	121.88	0.026583525	0	0.02658
Carbolux	710-1000	30	90	125	2.54	121.88	0.020840171	0	0.02084
Carbolux	710-1000	30	90	90	1.07	121.88	0.008779127	0	0.00878
Carbolux	710-1000	30	90	63	1.38	121.88	0.011322612	0	0.01132
Carbolux	710-1000	30	90	45	0.5	121.88	0.004102396	0	0.0041
Carbolux	710-1000	30	90	0	0.56	121.88	0.004594683	0	0.00459
Carbolux	710-1000	35	90	2800	0	117.55	0	0	0
Carbolux	710-1000	35	90	2000	0	117.55	0	0	0
Carbolux	710-1000	35	90	1400	0	117.55	0	0	0
Carbolux	710-1000	35	90	1000	0.12	117.55	0.001020842	0.0099288	-0.0089
Carbolux	710-1000	35	90	710	40.48	117.55	0.3443641	0.9775152	-0.6332
Carbolux	710-1000	35	90	500	43.83	117.55	0.372862612	0.0124165	0.36045
Carbolux	710-1000	35	90	355	21.2	117.55	0.180348788	0.0001395	0.18021
Carbolux	710-1000	35	90	250	3.92	117.55	0.033347512	0	0.03335
Carbolux	710-1000	35	90	180	2.75	117.55	0.0233943	0	0.02339
Carbolux	710-1000	35	90	125	2.25	117.55	0.019140791	0	0.01914
Carbolux	710-1000	35	90	90	0.88	117.55	0.007486176	0	0.00749
Carbolux	710-1000	35	90	63	1.19	117.55	0.010123352	0	0.01012
Carbolux	710-1000	35	90	45	0.4	117.55	0.003402807	0	0.0034
Carbolux	710-1000	35	90	0	0.53	117.55	0.00450872	0	0.00451
Carbolux	710-1000	15	45	2800	0	112.58	0	0	0
Carbolux	710-1000	15	45	2000	0	112.58	0	0	0
Carbolux	710-1000	15	45	1400	0	112.58	0	0	0
Carbolux	710-1000	15	45	1000	0.45	112.58	0.003997158	0.0099288	-0.0059
Carbolux	710-1000	15	45	710	70.32	112.58	0.624622491	0.9775152	-0.3529
Carbolux	710-1000	15	45	500	24.12	112.58	0.214247646	0.0124165	0.20183
Carbolux	710-1000	15	45	355	10.65	112.58	0.094599396	0.0001395	0.09446
Carbolux	710-1000	15	45	250	2.44	112.58	0.021673477	0	0.02167
Carbolux	710-1000	15	45	180	1.73	112.58	0.01536685	0	0.01537
Carbolux	710-1000	15	45	125	1.31	112.58	0.01163617	0	0.01164
Carbolux	710-1000	15	45	90	0.5	112.58	0.004441286	0	0.00444
Carbolux	710-1000	15	45	63	0.66	112.58	0.005862498	0	0.00586
Carbolux	710-1000	15	45	45	0.18	112.58	0.001598863	0	0.0016
Carbolux	710-1000	15	45	0	0.22	112.58	0.001954166	0	0.00195
Carbolux	710-1000	20	45	2800	0	108.82	0	0	0
Carbolux	710-1000	20	45	2000	0	108.82	0	0	0
Carbolux	710-1000	20	45	1400	0	108.82	0	0	0
Carbolux	710-1000	20	45	1000	0.29	108.82	0.002664951	0.0099288	-0.0073
Carbolux	710-1000	20	45	710	59.91	108.82	0.55054218	0.9775152	-0.427
Carbolux	710-1000	20	45	500	28.62	108.82	0.263003124	0.0124165	0.25059
Carbolux	710-1000	20	45	355	12.05	108.82	0.110733321	0.0001395	0.11059
Carbolux	710-1000	20	45	250	2.54	108.82	0.023341298	0	0.02334
Carbolux	710-1000	20	45	180	1.92	108.82	0.017643815	0	0.01764
Carbolux	710-1000	20	45	125	1.56	108.82	0.0143356	0	0.01434
Carbolux	710-1000	20	45	90	0.62	108.82	0.005697482	0	0.0057
Carbolux	710-1000	20	45	63	0.77	108.82	0.007075905	0	0.00708
Carbolux	710-1000	20	45	45	0.22	108.82	0.002021687	0	0.00202
Carbolux	710-1000	20	45	0	0.32	108.82	0.002940636	0	0.00294
Carbolux	710-1000	25	45	2800	0	92.123	0	0	0
Carbolux	710-1000	25	45	2000	0	92.123	0	0	0
Carbolux	710-1000	25	45	1400	0	92.123	0	0	0
Carbolux	710-1000	25	45	1000	0.23	92.123	0.002496662	0.0099288	-0.0074
Carbolux	710-1000	25	45	710	43.83	92.123	0.47577695	0.9775152	-0.5017
Carbolux	710-1000	25	45	500	27.743	92.123	0.301151721	0.0124165	0.28874
Carbolux	710-1000	25	45	355	12.67	92.123	0.137533515	0.0001395	0.13739
Carbolux	710-1000	25	45	250	2.58	92.123	0.028006035	0	0.02801
Carbolux	710-1000	25	45	180	1.83	92.123	0.019864746	0	0.01986
Carbolux	710-1000	25	45	125	1.41	92.123	0.015305624	0	0.01531
Carbolux	710-1000	25	45	90	0.58	92.123	0.00629593	0	0.0063

Carbolux	710-1000	25	45	63	0.77	92.123	0.00835839	0	0.00836
Carbolux	710-1000	25	45	45	0.23	92.123	0.002496662	0	0.0025
Carbolux	710-1000	25	45	0	0.25	92.123	0.002713763	0	0.00271
Carbolux	710-1000	30	45	2800	0	90.53	0	0	0
Carbolux	710-1000	30	45	2000	0	90.53	0	0	0
Carbolux	710-1000	30	45	1400	0	90.53	0	0	0
Carbolux	710-1000	30	45	1000	0.19	90.53	0.002098752	0.0099288	-0.0078
Carbolux	710-1000	30	45	710	37.93	90.53	0.418977135	0.9775152	-0.5585
Carbolux	710-1000	30	45	500	28.65	90.53	0.316469679	0.0124165	0.30405
Carbolux	710-1000	30	45	355	15.05	90.53	0.166243234	0.0001395	0.1661
Carbolux	710-1000	30	45	250	2.73	90.53	0.030155749	0	0.03016
Carbolux	710-1000	30	45	180	2.1	90.53	0.02319673	0	0.0232
Carbolux	710-1000	30	45	125	1.63	90.53	0.018005081	0	0.01801
Carbolux	710-1000	30	45	90	0.72	90.53	0.007953165	0	0.00795
Carbolux	710-1000	30	45	63	0.76	90.53	0.008395007	0	0.0084
Carbolux	710-1000	30	45	45	0.37	90.53	0.004087043	0	0.00409
Carbolux	710-1000	30	45	0	0.4	90.53	0.004418425	0	0.00442
Carbolux	710-1000	35	45	2800	0	92.44	0	0	0
Carbolux	710-1000	35	45	2000	0	92.44	0	0	0
Carbolux	710-1000	35	45	1400	0	92.44	0	0	0
Carbolux	710-1000	35	45	1000	0.11	92.44	0.001189961	0.0099288	-0.0087
Carbolux	710-1000	35	45	710	33	92.44	0.356988317	0.9775152	-0.6205
Carbolux	710-1000	35	45	500	30.9	92.44	0.334270878	0.0124165	0.32185
Carbolux	710-1000	35	45	355	18.18	92.44	0.196668109	0.0001395	0.19653
Carbolux	710-1000	35	45	250	3.33	92.44	0.036023367	0	0.03602
Carbolux	710-1000	35	45	180	2.51	92.44	0.027152748	0	0.02715
Carbolux	710-1000	35	45	125	1.89	92.44	0.020445695	0	0.02045
Carbolux	710-1000	35	45	90	0.84	92.44	0.009086975	0	0.00909
Carbolux	710-1000	35	45	63	0.88	92.44	0.009519688	0	0.00952
Carbolux	710-1000	35	45	45	0.4	92.44	0.004327131	0	0.00433
Carbolux	710-1000	35	45	0	0.4	92.44	0.004327131	0	0.00433
Carbolux	710-1000	15	30	2800	0	92.54	0	0	0
Carbolux	710-1000	15	30	2000	0	92.54	0	0	0
Carbolux	710-1000	15	30	1400	0	92.54	0	0	0
Carbolux	710-1000	15	30	1000	0.32	92.54	0.003457964	0.0099288	-0.0065
Carbolux	710-1000	15	30	710	38.95	92.54	0.420899071	0.9775152	-0.5566
Carbolux	710-1000	15	30	500	22.06	92.54	0.238383402	0.0124165	0.22597
Carbolux	710-1000	15	30	355	19.56	92.54	0.211368057	0.0001395	0.21123
Carbolux	710-1000	15	30	250	3.82	92.54	0.041279447	0	0.04128
Carbolux	710-1000	15	30	180	3.02	92.54	0.032634536	0	0.03263
Carbolux	710-1000	15	30	125	2.2	92.54	0.023773503	0	0.02377
Carbolux	710-1000	15	30	90	1	92.54	0.010806138	0	0.01081
Carbolux	710-1000	15	30	63	1	92.54	0.010806138	0	0.01081
Carbolux	710-1000	15	30	45	0.41	92.54	0.004430517	0	0.00443
Carbolux	710-1000	15	30	0	0.2	92.54	0.002161228	0	0.00216
Carbolux	710-1000	20	30	2800	0	90.21	0	0	0
Carbolux	710-1000	20	30	2000	0	90.21	0	0	0
Carbolux	710-1000	20	30	1400	0	90.21	0	0	0
Carbolux	710-1000	20	30	1000	0.16	90.21	0.001773639	0.0099288	-0.0082
Carbolux	710-1000	20	30	710	33.68	90.21	0.37335107	0.9775152	-0.6042
Carbolux	710-1000	20	30	500	24.31	90.21	0.269482319	0.0124165	0.25707
Carbolux	710-1000	20	30	355	19.75	90.21	0.218933599	0.0001395	0.21879
Carbolux	710-1000	20	30	250	4.18	90.21	0.046336326	0	0.04634
Carbolux	710-1000	20	30	180	3.04	90.21	0.033699146	0	0.0337
Carbolux	710-1000	20	30	125	2.33	90.21	0.025828622	0	0.02583
Carbolux	710-1000	20	30	90	0.9	90.21	0.009976721	0	0.00998
Carbolux	710-1000	20	30	63	1.1	90.21	0.01219377	0	0.01219
Carbolux	710-1000	20	30	45	0.36	90.21	0.003990688	0	0.00399
Carbolux	710-1000	20	30	0	0.4	90.21	0.004434098	0	0.00443
Carbolux	710-1000	25	30	2800	0	98.34	0	0	0
Carbolux	710-1000	25	30	2000	0	98.34	0	0	0
Carbolux	710-1000	25	30	1400	0	98.34	0	0	0
Carbolux	710-1000	25	30	1000	0.1	98.34	0.00101688	0.0099288	-0.0089
Carbolux	710-1000	25	30	710	34.34	98.34	0.349196665	0.9775152	-0.6283
Carbolux	710-1000	25	30	500	29.54	98.34	0.300386414	0.0124165	0.28797
Carbolux	710-1000	25	30	355	21.01	98.34	0.213646532	0.0001395	0.21351
Carbolux	710-1000	25	30	250	4.44	98.34	0.045149481	0	0.04515
Carbolux	710-1000	25	30	180	3.29	98.34	0.033455359	0	0.03346
Carbolux	710-1000	25	30	125	2.47	98.34	0.025116941	0	0.02512
Carbolux	710-1000	25	30	90	0.95	98.34	0.009660362	0	0.00966
Carbolux	710-1000	25	30	63	1.31	98.34	0.013321131	0	0.01332
Carbolux	710-1000	25	30	45	0.4	98.34	0.004067521	0	0.00407
Carbolux	710-1000	25	30	0	0.49	98.34	0.004982713	0	0.00498
Carbolux	710-1000	30	30	2800	0	108.89	0	0	0

Carbolux 710-1000	30	30	2000	0	108.89	0	0	0
Carbolux 710-1000	30	30	1400	0	108.89	0	0	0
Carbolux 710-1000	30	30	1000	0.11	108.89	0.001010194	0.0099288	-0.0089
Carbolux 710-1000	30	30	710	39.88	108.89	0.366241161	0.9775152	-0.6113
Carbolux 710-1000	30	30	500	36.54	108.89	0.335568004	0.0124165	0.32315
Carbolux 710-1000	30	30	355	20.27	108.89	0.186151162	0.0001395	0.18601
Carbolux 710-1000	30	30	250	3.88	108.89	0.035632289	0	0.03563
Carbolux 710-1000	30	30	180	3	108.89	0.027550739	0	0.02755
Carbolux 710-1000	30	30	125	2.24	108.89	0.020571219	0	0.02057
Carbolux 710-1000	30	30	90	0.94	108.89	0.008632565	0	0.00863
Carbolux 710-1000	30	30	63	1.04	108.89	0.009550923	0	0.00955
Carbolux 710-1000	30	30	45	0.46	108.89	0.004224447	0	0.00422
Carbolux 710-1000	30	30	0	0.53	108.89	0.004867297	0	0.00487
Carbolux 710-1000	35	30	2800	0	93.3	0	0	0
Carbolux 710-1000	35	30	2000	0	93.3	0	0	0
Carbolux 710-1000	35	30	1400	0	93.3	0	0	0
Carbolux 710-1000	35	30	1000	0.1	93.3	0.001071811	0.0099288	-0.0089
Carbolux 710-1000	35	30	710	27.95	93.3	0.299571275	0.9775152	-0.6779
Carbolux 710-1000	35	30	500	32.25	93.3	0.345659164	0.0124165	0.33324
Carbolux 710-1000	35	30	355	20.13	93.3	0.215755627	0.0001395	0.21562
Carbolux 710-1000	35	30	250	3.9	93.3	0.041800643	0	0.0418
Carbolux 710-1000	35	30	180	2.99	93.3	0.03204716	0	0.03205
Carbolux 710-1000	35	30	125	2.67	93.3	0.028617363	0	0.02862
Carbolux 710-1000	35	30	90	1.01	93.3	0.010825295	0	0.01083
Carbolux 710-1000	35	30	63	1.16	93.3	0.012433012	0	0.01243
Carbolux 710-1000	35	30	45	0.56	93.3	0.006002144	0	0.006
Carbolux 710-1000	35	30	0	0.58	93.3	0.006216506	0	0.00622

K.2 Sodium Chloride (Salt) and Golden Breadcrumbs (GB)

K.3 Sucrose

150.44	45	90	30	355	19.1	12.73333333	18.13333333	10.77833333	1.955	16.21492467	17.792715
150.44	45	90	30	250	9.82	6.54666667	11.58666667	4.30333333	2.24333333	6.473934667	51.68518846
150.44	45	90	30	180	7.88	5.25333333	6.33333333	2.97833333	2.275	4.480604667	75.86912005
150.44	45	90	30	100	6.55	4.36666667	1.96666667	1.97333333	2.39333333	2.968682667	120.6365831
150.44	45	90	30	0	2.95	1.96666667	0	0.66666667	1.3	1.00293333	194.1371976
150.23	45	90	35	1180	0.21	0.14	100.0133333	0.85333333	-0.71333333	1.281962667	-83.61886774
150.23	45	90	35	850	6.75	4.5	95.51333333	10.64166667	-6.14166667	15.98697583	-57.77813096
150.23	45	90	35	710	22.18	14.78666667	80.72666667	22.98166667	-8.195	34.52535783	-35.75736389
150.23	45	90	35	630	17.76	11.84	64.04666667	11.83833333	0.00166667	17.78472817	-0.139041578
150.23	45	90	35	500	31.26	20.84	48.04666667	21.00666667	-0.16666667	31.55831533	-0.945282821
150.23	45	90	35	425	19.55	13.03333333	35.01333333	12.03666667	0.99666667	18.08268433	8.114479242
150.23	45	90	35	355	22.16	14.77333333	20.24	10.77833333	3.995	16.19229017	36.85525501
150.23	45	90	35	250	10.26	6.84	13.4	4.30333333	2.53666667	6.464897667	58.70320814
150.23	45	90	35	180	8.9	5.93333333	7.46666667	2.97833333	2.955	4.474350167	98.91156634
150.23	45	90	35	100	7.26	4.84	2.62666667	1.97333333	2.86666667	2.964538667	144.894765
150.23	45	90	35	0	3.94	2.62666667	0	0.66666667	1.96	1.00153333	293.3967916

APPENDIX L: Experimental Data – Large Scale Particle Attrition Tester

This Appendix contains all the raw data and calculations used to analyse the particle attrition behaviour across all material types in the experimental programme. The data is arranged by material type. Only the data regarding pellet length is included here as all data was given for the study of different pellet types in the text.

L.1 Sucrose

425	0	93.06	30	2	15.79	16.96754782	15.58326809	1.38427973
355	0	93.06	30	2	18.86	20.26649473	14.08310835	6.183386388
250	0	93.06	30	2	8.96	9.628196862	6.031434219	3.596762643
180	0	93.06	30	2	7.63	8.199011391	3.478628123	4.720383268
100	0	93.06	30	2	4.63	4.975284763	1.156191348	3.819093415
0	0	93.06	30	2	2.6	2.793896411	0.233468956	2.560427454

L.2 Biomass Pellet Breakage as Defined by Pellet Length

Length Broken	Length original	Dust 0	Dust 1	Impact Velocity	#	Pellet	Cumulative length	Rounded Length
21	20	1.18	2.2		10	1 Type A	21	21
20.97	20	1.18	2.2		10	2 Type A	41.97	21
20.95	20	1.18	2.2		10	3 Type A	62.92	21
20.93	20	1.18	2.2		10	4 Type A	83.85	21
20.93	20	1.18	2.2		10	5 Type A	104.78	21
20.92	20	1.18	2.2		10	6 Type A	125.7	21
20.88	20	1.18	2.2		10	7 Type A	146.58	21
20.66	20	1.18	2.2		10	8 Type A	167.24	21
20.57	20	1.18	2.2		10	9 Type A	187.81	21
20.56	20	1.18	2.2		10	10 Type A	208.37	21
20.56	20	1.18	2.2		10	11 Type A	228.93	21
20.55	20	1.18	2.2		10	12 Type A	249.48	21
20.51	20	1.18	2.2		10	13 Type A	269.99	21
20.5	20	1.18	2.2		10	14 Type A	290.49	21
20.47	20	1.18	2.2		10	15 Type A	310.96	20
20.39	20	1.18	2.2		10	16 Type A	331.35	20
20.38	20	1.18	2.2		10	17 Type A	351.73	20
20.37	20	1.18	2.2		10	18 Type A	372.1	20
20.33	20	1.18	2.2		10	19 Type A	392.43	20
20.3	20	1.18	2.2		10	20 Type A	412.73	20
20.26	20	1.18	2.2		10	21 Type A	432.99	20
20.18	20	1.18	2.2		10	22 Type A	453.17	20
20.17	20	1.18	2.2		10	23 Type A	473.34	20
20.16	20	1.18	2.2		10	24 Type A	493.5	20
20.04	20	1.18	2.2		10	25 Type A	513.54	20
19.99	20	1.18	2.2		10	26 Type A	533.53	20
19.98	20	1.18	2.2		10	27 Type A	553.51	20
19.96	20	1.18	2.2		10	28 Type A	573.47	20
19.77	20	1.18	2.2		10	29 Type A	593.24	20
19.74	20	1.18	2.2		10	30 Type A	612.98	20
19.68	20	1.18	2.2		10	31 Type A	632.66	20
19.61	20	1.18	2.2		10	32 Type A	652.27	20
19.53	20	1.18	2.2		10	33 Type A	671.8	20
19.53	20	1.18	2.2		10	34 Type A	691.33	20
19.5	20	1.18	2.2		10	35 Type A	710.83	20
19.49	20	1.18	2.2		10	36 Type A	730.32	19
19.46	20	1.18	2.2		10	37 Type A	749.78	19
19.45	20	1.18	2.2		10	38 Type A	769.23	19
19.45	20	1.18	2.2		10	39 Type A	788.68	19
19.43	20	1.18	2.2		10	40 Type A	808.11	19
19.4	20	1.18	2.2		10	41 Type A	827.51	19
19.37	20	1.18	2.2		10	42 Type A	846.88	19
19.3	20	1.18	2.2		10	43 Type A	866.18	19
19.29	20	1.18	2.2		10	44 Type A	885.47	19
19.22	20	1.18	2.2		10	45 Type A	904.69	19
19.2	20	1.18	2.2		10	46 Type A	923.89	19
19.19	20	1.18	2.2		10	47 Type A	943.08	19
19.18	20	1.18	2.2		10	48 Type A	962.26	19
19.17	20	1.18	2.2		10	49 Type A	981.43	19
19.15	20	1.18	2.2		10	50 Type A	1000.58	19
19.06	20	1.18	2.2		10	51 Type A	1019.64	19
19	20	1.18	2.2		10	52 Type A	1038.64	19
18.83	20	1.18	2.2		10	53 Type A	1057.47	19
18.77	20	1.18	2.2		10	54 Type A	1076.24	19
18.73	20	1.18	2.2		10	55 Type A	1094.97	19
18.71	20	1.18	2.2		10	56 Type A	1113.68	19
18.7	20	1.18	2.2		10	57 Type A	1132.38	19
18.57	20	1.18	2.2		10	58 Type A	1150.95	19
18.53	20	1.18	2.2		10	59 Type A	1169.48	19
18.5	20	1.18	2.2		10	60 Type A	1187.98	19
18.43	20	1.18	2.2		10	61 Type A	1206.41	18
18.32	20	1.18	2.2		10	62 Type A	1224.73	18
18.3	20	1.18	2.2		10	63 Type A	1243.03	18
18.29	20	1.18	2.2		10	64 Type A	1261.32	18
18.16	20	1.18	2.2		10	65 Type A	1279.48	18
18.13	20	1.18	2.2		10	66 Type A	1297.61	18
17.9	20	1.18	2.2		10	67 Type A	1315.51	18
17.7	20	1.18	2.2		10	68 Type A	1333.21	18
17.12	20	1.18	2.2		10	69 Type A	1350.33	17
16.91	20	1.18	2.2		10	70 Type A	1367.24	17
16.83	20	1.18	2.2		10	71 Type A	1384.07	17
16.68	20	1.18	2.2		10	72 Type A	1400.75	17
16.44	20	1.18	2.2		10	73 Type A	1417.19	16
15.53	20	1.18	2.2		10	74 Type A	1432.72	16
15.35	20	1.18	2.2		10	75 Type A	1448.07	15
14.79	20	1.18	2.2		10	76 Type A	1462.86	15
14.48	20	1.18	2.2		10	77 Type A	1477.34	14
14.28	20	1.18	2.2		10	78 Type A	1491.62	14
14.13	20	1.18	2.2		10	79 Type A	1505.75	14
13.83	20	1.18	2.2		10	80 Type A	1519.58	14
13.67	20	1.18	2.2		10	81 Type A	1533.25	14
13.5	20	1.18	2.2		10	82 Type A	1546.75	14
13.31	20	1.18	2.2		10	83 Type A	1560.06	13
13.28	20	1.18	2.2		10	84 Type A	1573.34	13
13.27	20	1.18	2.2		10	85 Type A	1586.61	13
13.24	20	1.18	2.2		10	86 Type A	1599.85	13

13.22	20	1.18	2.2	10	87 Type A	1613.07	13
12.96	20	1.18	2.2	10	88 Type A	1626.03	13
12.58	20	1.18	2.2	10	89 Type A	1638.61	13
12.39	20	1.18	2.2	10	90 Type A	1651	12
12.33	20	1.18	2.2	10	91 Type A	1663.33	12
11.76	20	1.18	2.2	10	92 Type A	1675.09	12
10.87	20	1.18	2.2	10	93 Type A	1685.96	11
10.73	20	1.18	2.2	10	94 Type A	1696.69	11
10.51	20	1.18	2.2	10	95 Type A	1707.2	11
10.37	20	1.18	2.2	10	96 Type A	1717.57	10
10.31	20	1.18	2.2	10	97 Type A	1727.88	10
10.07	20	1.18	2.2	10	98 Type A	1737.95	10
10	20	1.18	2.2	10	99 Type A	1747.95	10
9.92	20	1.18	2.2	10	100 Type A	1757.87	10
9.89	20	1.18	2.2	10	101 Type A	1767.76	10
9.87	20	1.18	2.2	10	102 Type A	1777.63	10
9.87	20	1.18	2.2	10	103 Type A	1787.5	10
9.4	20	1.18	2.2	10	104 Type A	1796.9	9
9.09	20	1.18	2.2	10	105 Type A	1805.99	9
8.95	20	1.18	2.2	10	106 Type A	1814.94	9
8.71	20	1.18	2.2	10	107 Type A	1823.65	9
8.5	20	1.18	2.2	10	108 Type A	1832.15	9
8.15	20	1.18	2.2	10	109 Type A	1840.3	8
7.77	20	1.18	2.2	10	110 Type A	1848.07	8
7.57	20	1.18	2.2	10	111 Type A	1855.64	8
7.25	20	1.18	2.2	10	112 Type A	1862.89	7
7.12	20	1.18	2.2	10	113 Type A	1870.01	7
6.36	20	1.18	2.2	10	114 Type A	1876.37	6
6.12	20	1.18	2.2	10	115 Type A	1882.49	6
5.09	20	1.18	2.2	10	116 Type A	1887.58	5
3.4	20	1.18	2.2	10	117 Type A	1890.98	3
20.91	20	2.99	4.46	20	1 Type A	20.91	21
20.18	20	2.99	4.46	20	2 Type A	41.09	20
19.75	20	2.99	4.46	20	3 Type A	60.84	20
19.59	20	2.99	4.46	20	4 Type A	80.43	20
19.48	20	2.99	4.46	20	5 Type A	99.91	19
19.36	20	2.99	4.46	20	6 Type A	119.27	19
18.74	20	2.99	4.46	20	7 Type A	138.01	19
18.62	20	2.99	4.46	20	8 Type A	156.63	19
18.53	20	2.99	4.46	20	9 Type A	175.16	19
17.97	20	2.99	4.46	20	10 Type A	193.13	18
17.91	20	2.99	4.46	20	11 Type A	211.04	18
17.64	20	2.99	4.46	20	12 Type A	228.68	18
17.27	20	2.99	4.46	20	13 Type A	245.95	17
16.76	20	2.99	4.46	20	14 Type A	262.71	17
16.5	20	2.99	4.46	20	15 Type A	279.21	17
16.39	20	2.99	4.46	20	16 Type A	295.6	16
16.16	20	2.99	4.46	20	17 Type A	311.76	16
15.74	20	2.99	4.46	20	18 Type A	327.5	16
15.68	20	2.99	4.46	20	19 Type A	343.18	16
15.66	20	2.99	4.46	20	20 Type A	358.84	16
15.38	20	2.99	4.46	20	21 Type A	374.22	15
15.18	20	2.99	4.46	20	22 Type A	389.4	15
15.08	20	2.99	4.46	20	23 Type A	404.48	15
14.9	20	2.99	4.46	20	24 Type A	419.38	15
14.86	20	2.99	4.46	20	25 Type A	434.24	15
14.64	20	2.99	4.46	20	26 Type A	448.88	15
14.46	20	2.99	4.46	20	27 Type A	463.34	14
14.05	20	2.99	4.46	20	28 Type A	477.39	14
13.83	20	2.99	4.46	20	29 Type A	491.22	14
13.81	20	2.99	4.46	20	30 Type A	505.03	14
13.81	20	2.99	4.46	20	31 Type A	518.84	14
13.77	20	2.99	4.46	20	32 Type A	532.61	14
13.7	20	2.99	4.46	20	33 Type A	546.31	14
13.7	20	2.99	4.46	20	34 Type A	560.01	14
13.65	20	2.99	4.46	20	35 Type A	573.66	14
13.64	20	2.99	4.46	20	36 Type A	587.3	14
13.61	20	2.99	4.46	20	37 Type A	600.91	14
13.54	20	2.99	4.46	20	38 Type A	614.45	14
13.5	20	2.99	4.46	20	39 Type A	627.95	14
13.37	20	2.99	4.46	20	40 Type A	641.32	13
13.18	20	2.99	4.46	20	41 Type A	654.5	13
13.03	20	2.99	4.46	20	42 Type A	667.53	13
12.86	20	2.99	4.46	20	43 Type A	680.39	13
12.77	20	2.99	4.46	20	44 Type A	693.16	13
12.75	20	2.99	4.46	20	45 Type A	705.91	13
12.6	20	2.99	4.46	20	46 Type A	718.51	13
12.54	20	2.99	4.46	20	47 Type A	731.05	13
12.53	20	2.99	4.46	20	48 Type A	743.58	13
12.53	20	2.99	4.46	20	49 Type A	756.11	13
12.41	20	2.99	4.46	20	50 Type A	768.52	12
12.39	20	2.99	4.46	20	51 Type A	780.91	12
12.39	20	2.99	4.46	20	52 Type A	793.3	12
12.27	20	2.99	4.46	20	53 Type A	805.57	12
12.25	20	2.99	4.46	20	54 Type A	817.82	12
12.24	20	2.99	4.46	20	55 Type A	830.06	12
12.2	20	2.99	4.46	20	56 Type A	842.26	12

12.13	20	2.99	4.46	20	57 Type A	854.39	12
12.07	20	2.99	4.46	20	58 Type A	866.46	12
11.97	20	2.99	4.46	20	59 Type A	878.43	12
11.94	20	2.99	4.46	20	60 Type A	890.37	12
11.93	20	2.99	4.46	20	61 Type A	902.3	12
11.91	20	2.99	4.46	20	62 Type A	914.21	12
11.73	20	2.99	4.46	20	63 Type A	925.94	12
11.7	20	2.99	4.46	20	64 Type A	937.64	12
11.69	20	2.99	4.46	20	65 Type A	949.33	12
11.68	20	2.99	4.46	20	66 Type A	961.01	12
11.66	20	2.99	4.46	20	67 Type A	972.67	12
11.62	20	2.99	4.46	20	68 Type A	984.29	12
11.55	20	2.99	4.46	20	69 Type A	995.84	12
11.41	20	2.99	4.46	20	70 Type A	1007.25	11
11.36	20	2.99	4.46	20	71 Type A	1018.61	11
11.17	20	2.99	4.46	20	72 Type A	1029.78	11
11.13	20	2.99	4.46	20	73 Type A	1040.91	11
11.07	20	2.99	4.46	20	74 Type A	1051.98	11
10.94	20	2.99	4.46	20	75 Type A	1062.92	11
10.91	20	2.99	4.46	20	76 Type A	1073.83	11
10.62	20	2.99	4.46	20	77 Type A	1084.45	11
10.41	20	2.99	4.46	20	78 Type A	1094.86	10
10.4	20	2.99	4.46	20	79 Type A	1105.26	10
10.4	20	2.99	4.46	20	80 Type A	1115.66	10
10.4	20	2.99	4.46	20	81 Type A	1126.06	10
10.27	20	2.99	4.46	20	82 Type A	1136.33	10
10.27	20	2.99	4.46	20	83 Type A	1146.6	10
10.27	20	2.99	4.46	20	84 Type A	1156.87	10
10.26	20	2.99	4.46	20	85 Type A	1167.13	10
10.2	20	2.99	4.46	20	86 Type A	1177.33	10
10.2	20	2.99	4.46	20	87 Type A	1187.53	10
10.15	20	2.99	4.46	20	88 Type A	1197.68	10
10.15	20	2.99	4.46	20	89 Type A	1207.83	10
10.07	20	2.99	4.46	20	90 Type A	1217.9	10
10.01	20	2.99	4.46	20	91 Type A	1227.91	10
9.92	20	2.99	4.46	20	92 Type A	1237.83	10
9.9	20	2.99	4.46	20	93 Type A	1247.73	10
9.86	20	2.99	4.46	20	94 Type A	1257.59	10
9.85	20	2.99	4.46	20	95 Type A	1267.44	10
9.84	20	2.99	4.46	20	96 Type A	1277.28	10
9.84	20	2.99	4.46	20	97 Type A	1287.12	10
9.78	20	2.99	4.46	20	98 Type A	1296.9	10
9.73	20	2.99	4.46	20	99 Type A	1306.63	10
9.72	20	2.99	4.46	20	100 Type A	1316.35	10
9.65	20	2.99	4.46	20	101 Type A	1326	10
9.64	20	2.99	4.46	20	102 Type A	1335.64	10
9.55	20	2.99	4.46	20	103 Type A	1345.19	10
9.45	20	2.99	4.46	20	104 Type A	1354.64	9
9.43	20	2.99	4.46	20	105 Type A	1364.07	9
9.42	20	2.99	4.46	20	106 Type A	1373.49	9
9.39	20	2.99	4.46	20	107 Type A	1382.88	9
9.3	20	2.99	4.46	20	108 Type A	1392.18	9
9.26	20	2.99	4.46	20	109 Type A	1401.44	9
9.25	20	2.99	4.46	20	110 Type A	1410.69	9
9.23	20	2.99	4.46	20	111 Type A	1419.92	9
9.23	20	2.99	4.46	20	112 Type A	1429.15	9
9.17	20	2.99	4.46	20	113 Type A	1438.32	9
9.12	20	2.99	4.46	20	114 Type A	1447.44	9
9.06	20	2.99	4.46	20	115 Type A	1456.5	9
9.04	20	2.99	4.46	20	116 Type A	1465.54	9
8.99	20	2.99	4.46	20	117 Type A	1474.53	9
8.98	20	2.99	4.46	20	118 Type A	1483.51	9
8.96	20	2.99	4.46	20	119 Type A	1492.47	9
8.91	20	2.99	4.46	20	120 Type A	1501.38	9
8.9	20	2.99	4.46	20	121 Type A	1510.28	9
8.87	20	2.99	4.46	20	122 Type A	1519.15	9
8.87	20	2.99	4.46	20	123 Type A	1528.02	9
8.78	20	2.99	4.46	20	124 Type A	1536.8	9
8.77	20	2.99	4.46	20	125 Type A	1545.57	9
8.77	20	2.99	4.46	20	126 Type A	1554.34	9
8.73	20	2.99	4.46	20	127 Type A	1563.07	9
8.71	20	2.99	4.46	20	128 Type A	1571.78	9
8.68	20	2.99	4.46	20	129 Type A	1580.46	9
8.65	20	2.99	4.46	20	130 Type A	1589.11	9
8.62	20	2.99	4.46	20	131 Type A	1597.73	9
8.59	20	2.99	4.46	20	132 Type A	1606.32	9
8.59	20	2.99	4.46	20	133 Type A	1614.91	9
8.53	20	2.99	4.46	20	134 Type A	1623.44	9
8.51	20	2.99	4.46	20	135 Type A	1631.95	9
8.51	20	2.99	4.46	20	136 Type A	1640.46	9
8.43	20	2.99	4.46	20	137 Type A	1648.89	8
8.4	20	2.99	4.46	20	138 Type A	1657.29	8
8.38	20	2.99	4.46	20	139 Type A	1665.67	8
8.38	20	2.99	4.46	20	140 Type A	1674.05	8
8.35	20	2.99	4.46	20	141 Type A	1682.4	8
8.34	20	2.99	4.46	20	142 Type A	1690.74	8
8.32	20	2.99	4.46	20	143 Type A	1699.06	8

8.29	20	2.99	4.46	20	144 Type A	1707.35	8
8.08	20	2.99	4.46	20	145 Type A	1715.43	8
8.02	20	2.99	4.46	20	146 Type A	1723.45	8
8	20	2.99	4.46	20	147 Type A	1731.45	8
7.99	20	2.99	4.46	20	148 Type A	1739.44	8
7.99	20	2.99	4.46	20	149 Type A	1747.43	8
7.95	20	2.99	4.46	20	150 Type A	1755.38	8
7.91	20	2.99	4.46	20	151 Type A	1763.29	8
7.9	20	2.99	4.46	20	152 Type A	1771.19	8
7.88	20	2.99	4.46	20	153 Type A	1779.07	8
7.88	20	2.99	4.46	20	154 Type A	1786.95	8
7.87	20	2.99	4.46	20	155 Type A	1794.82	8
7.8	20	2.99	4.46	20	156 Type A	1802.62	8
7.79	20	2.99	4.46	20	157 Type A	1810.41	8
7.77	20	2.99	4.46	20	158 Type A	1818.18	8
7.73	20	2.99	4.46	20	159 Type A	1825.91	8
7.69	20	2.99	4.46	20	160 Type A	1833.6	8
7.68	20	2.99	4.46	20	161 Type A	1841.28	8
7.67	20	2.99	4.46	20	162 Type A	1848.95	8
7.66	20	2.99	4.46	20	163 Type A	1856.61	8
7.66	20	2.99	4.46	20	164 Type A	1864.27	8
7.59	20	2.99	4.46	20	165 Type A	1871.86	8
7.59	20	2.99	4.46	20	166 Type A	1879.45	8
7.48	20	2.99	4.46	20	167 Type A	1886.93	7
7.42	20	2.99	4.46	20	168 Type A	1894.35	7
7.41	20	2.99	4.46	20	169 Type A	1901.76	7
7.4	20	2.99	4.46	20	170 Type A	1909.16	7
7.39	20	2.99	4.46	20	171 Type A	1916.55	7
7.35	20	2.99	4.46	20	172 Type A	1923.9	7
7.29	20	2.99	4.46	20	173 Type A	1931.19	7
7.16	20	2.99	4.46	20	174 Type A	1938.35	7
7.12	20	2.99	4.46	20	175 Type A	1945.47	7
7.06	20	2.99	4.46	20	176 Type A	1952.53	7
7.02	20	2.99	4.46	20	177 Type A	1959.55	7
7.01	20	2.99	4.46	20	178 Type A	1966.56	7
6.9	20	2.99	4.46	20	179 Type A	1973.46	7
6.89	20	2.99	4.46	20	180 Type A	1980.35	7
6.86	20	2.99	4.46	20	181 Type A	1987.21	7
6.83	20	2.99	4.46	20	182 Type A	1994.04	7
6.81	20	2.99	4.46	20	183 Type A	2000.85	7
6.8	20	2.99	4.46	20	184 Type A	2007.65	7
6.73	20	2.99	4.46	20	185 Type A	2014.38	7
6.71	20	2.99	4.46	20	186 Type A	2021.09	7
6.7	20	2.99	4.46	20	187 Type A	2027.79	7
6.61	20	2.99	4.46	20	188 Type A	2034.4	7
6.5	20	2.99	4.46	20	189 Type A	2040.9	7
6.31	20	2.99	4.46	20	190 Type A	2047.21	6
6.29	20	2.99	4.46	20	191 Type A	2053.5	6
6.26	20	2.99	4.46	20	192 Type A	2059.76	6
6.12	20	2.99	4.46	20	193 Type A	2065.88	6
6.1	20	2.99	4.46	20	194 Type A	2071.98	6
6.07	20	2.99	4.46	20	195 Type A	2078.05	6
6.05	20	2.99	4.46	20	196 Type A	2084.1	6
6.02	20	2.99	4.46	20	197 Type A	2090.12	6
6.02	20	2.99	4.46	20	198 Type A	2096.14	6
6.01	20	2.99	4.46	20	199 Type A	2102.15	6
5.98	20	2.99	4.46	20	200 Type A	2108.13	6
5.98	20	2.99	4.46	20	201 Type A	2114.11	6
5.95	20	2.99	4.46	20	202 Type A	2120.06	6
5.94	20	2.99	4.46	20	203 Type A	2126	6
5.88	20	2.99	4.46	20	204 Type A	2131.88	6
5.86	20	2.99	4.46	20	205 Type A	2137.74	6
5.72	20	2.99	4.46	20	206 Type A	2143.46	6
5.56	20	2.99	4.46	20	207 Type A	2149.02	6
5.48	20	2.99	4.46	20	208 Type A	2154.5	5
5.46	20	2.99	4.46	20	209 Type A	2159.96	5
5.46	20	2.99	4.46	20	210 Type A	2165.42	5
5.36	20	2.99	4.46	20	211 Type A	2170.78	5
5.3	20	2.99	4.46	20	212 Type A	2176.08	5
5.29	20	2.99	4.46	20	213 Type A	2181.37	5
5	20	2.99	4.46	20	214 Type A	2186.37	5
5	20	2.99	4.46	20	215 Type A	2191.37	5
4.98	20	2.99	4.46	20	216 Type A	2196.35	5
4.85	20	2.99	4.46	20	217 Type A	2201.2	5
4.82	20	2.99	4.46	20	218 Type A	2206.02	5
4.76	20	2.99	4.46	20	219 Type A	2210.78	5
4.75	20	2.99	4.46	20	220 Type A	2215.53	5
4.64	20	2.99	4.46	20	221 Type A	2220.17	5
4.62	20	2.99	4.46	20	222 Type A	2224.79	5
4.58	20	2.99	4.46	20	223 Type A	2229.37	5
4.45	20	2.99	4.46	20	224 Type A	2233.82	4
4.37	20	2.99	4.46	20	225 Type A	2238.19	4
4.34	20	2.99	4.46	20	226 Type A	2242.53	4
4.24	20	2.99	4.46	20	227 Type A	2246.77	4
4.12	20	2.99	4.46	20	228 Type A	2250.89	4
4.09	20	2.99	4.46	20	229 Type A	2254.98	4
4.02	20	2.99	4.46	20	230 Type A	2259	4

3.97	20	2.99	4.46	20	231 Type A	2262.97	4
3.9	20	2.99	4.46	20	232 Type A	2266.87	4
3.9	20	2.99	4.46	20	233 Type A	2270.77	4
3.66	20	2.99	4.46	20	234 Type A	2274.43	4
3.52	20	2.99	4.46	20	235 Type A	2277.95	4
3.45	20	2.99	4.46	20	236 Type A	2281.4	3
3.3	20	2.99	4.46	20	237 Type A	2284.7	3
14.76	20	7.75	13.65	30	1 Type A	14.76	15
14.67	20	7.75	13.65	30	2 Type A	29.43	15
13.62	20	7.75	13.65	30	3 Type A	43.05	14
13.36	20	7.75	13.65	30	4 Type A	56.41	13
13.25	20	7.75	13.65	30	5 Type A	69.66	13
13.02	20	7.75	13.65	30	6 Type A	82.68	13
12.96	20	7.75	13.65	30	7 Type A	95.64	13
12.88	20	7.75	13.65	30	8 Type A	108.52	13
12.55	20	7.75	13.65	30	9 Type A	121.07	13
12.37	20	7.75	13.65	30	10 Type A	133.44	12
12.13	20	7.75	13.65	30	11 Type A	145.57	12
12.1	20	7.75	13.65	30	12 Type A	157.67	12
11.98	20	7.75	13.65	30	13 Type A	169.65	12
11.83	20	7.75	13.65	30	14 Type A	181.48	12
11.77	20	7.75	13.65	30	15 Type A	193.25	12
11.55	20	7.75	13.65	30	16 Type A	204.8	12
11.37	20	7.75	13.65	30	17 Type A	216.17	11
11.33	20	7.75	13.65	30	18 Type A	227.5	11
11.32	20	7.75	13.65	30	19 Type A	238.82	11
10.98	20	7.75	13.65	30	20 Type A	249.8	11
10.79	20	7.75	13.65	30	21 Type A	260.59	11
10.68	20	7.75	13.65	30	22 Type A	271.27	11
10.62	20	7.75	13.65	30	23 Type A	281.89	11
10.61	20	7.75	13.65	30	24 Type A	292.5	11
10.59	20	7.75	13.65	30	25 Type A	303.09	11
10.57	20	7.75	13.65	30	26 Type A	313.66	11
10.54	20	7.75	13.65	30	27 Type A	324.2	11
10.5	20	7.75	13.65	30	28 Type A	334.7	11
10.47	20	7.75	13.65	30	29 Type A	345.17	10
10.44	20	7.75	13.65	30	30 Type A	355.61	10
10.4	20	7.75	13.65	30	31 Type A	366.01	10
10.33	20	7.75	13.65	30	32 Type A	376.34	10
10.31	20	7.75	13.65	30	33 Type A	386.65	10
10.24	20	7.75	13.65	30	34 Type A	396.89	10
10.23	20	7.75	13.65	30	35 Type A	407.12	10
10.21	20	7.75	13.65	30	36 Type A	417.33	10
10.15	20	7.75	13.65	30	37 Type A	427.48	10
10.06	20	7.75	13.65	30	38 Type A	437.54	10
10.05	20	7.75	13.65	30	39 Type A	447.59	10
10.04	20	7.75	13.65	30	40 Type A	457.63	10
9.97	20	7.75	13.65	30	41 Type A	467.6	10
9.82	20	7.75	13.65	30	42 Type A	477.42	10
9.8	20	7.75	13.65	30	43 Type A	487.22	10
9.75	20	7.75	13.65	30	44 Type A	496.97	10
9.75	20	7.75	13.65	30	45 Type A	506.72	10
9.7	20	7.75	13.65	30	46 Type A	516.42	10
9.66	20	7.75	13.65	30	47 Type A	526.08	10
9.63	20	7.75	13.65	30	48 Type A	535.71	10
9.57	20	7.75	13.65	30	49 Type A	545.28	10
9.56	20	7.75	13.65	30	50 Type A	554.84	10
9.44	20	7.75	13.65	30	51 Type A	564.28	9
9.4	20	7.75	13.65	30	52 Type A	573.68	9
9.36	20	7.75	13.65	30	53 Type A	583.04	9
9.34	20	7.75	13.65	30	54 Type A	592.38	9
9.32	20	7.75	13.65	30	55 Type A	601.7	9
9.31	20	7.75	13.65	30	56 Type A	611.01	9
9.28	20	7.75	13.65	30	57 Type A	620.29	9
9.26	20	7.75	13.65	30	58 Type A	629.55	9
9.22	20	7.75	13.65	30	59 Type A	638.77	9
9.21	20	7.75	13.65	30	60 Type A	647.98	9
9.19	20	7.75	13.65	30	61 Type A	657.17	9
9.16	20	7.75	13.65	30	62 Type A	666.33	9
9.14	20	7.75	13.65	30	63 Type A	675.47	9
9.14	20	7.75	13.65	30	64 Type A	684.61	9
8.99	20	7.75	13.65	30	65 Type A	693.6	9
8.98	20	7.75	13.65	30	66 Type A	702.58	9
8.94	20	7.75	13.65	30	67 Type A	711.52	9
8.83	20	7.75	13.65	30	68 Type A	720.35	9
8.76	20	7.75	13.65	30	69 Type A	729.11	9
8.63	20	7.75	13.65	30	70 Type A	737.74	9
8.63	20	7.75	13.65	30	71 Type A	746.37	9
8.58	20	7.75	13.65	30	72 Type A	754.95	9
8.57	20	7.75	13.65	30	73 Type A	763.52	9
8.54	20	7.75	13.65	30	74 Type A	772.06	9
8.46	20	7.75	13.65	30	75 Type A	780.52	8
8.44	20	7.75	13.65	30	76 Type A	788.96	8
8.43	20	7.75	13.65	30	77 Type A	797.39	8
8.38	20	7.75	13.65	30	78 Type A	805.77	8
8.37	20	7.75	13.65	30	79 Type A	814.14	8
8.34	20	7.75	13.65	30	80 Type A	822.48	8

8.32	20	7.75	13.65	30	81 Type A	830.8	8
8.3	20	7.75	13.65	30	82 Type A	839.1	8
8.28	20	7.75	13.65	30	83 Type A	847.38	8
8.2	20	7.75	13.65	30	84 Type A	855.58	8
8.15	20	7.75	13.65	30	85 Type A	863.73	8
8.14	20	7.75	13.65	30	86 Type A	871.87	8
8.13	20	7.75	13.65	30	87 Type A	880	8
8.12	20	7.75	13.65	30	88 Type A	888.12	8
8.11	20	7.75	13.65	30	89 Type A	896.23	8
8.06	20	7.75	13.65	30	90 Type A	904.29	8
7.99	20	7.75	13.65	30	91 Type A	912.28	8
7.95	20	7.75	13.65	30	92 Type A	920.23	8
7.95	20	7.75	13.65	30	93 Type A	928.18	8
7.93	20	7.75	13.65	30	94 Type A	936.11	8
7.9	20	7.75	13.65	30	95 Type A	944.01	8
7.86	20	7.75	13.65	30	96 Type A	951.87	8
7.86	20	7.75	13.65	30	97 Type A	959.73	8
7.77	20	7.75	13.65	30	98 Type A	967.5	8
7.74	20	7.75	13.65	30	99 Type A	975.24	8
7.72	20	7.75	13.65	30	100 Type A	982.96	8
7.72	20	7.75	13.65	30	101 Type A	990.68	8
7.7	20	7.75	13.65	30	102 Type A	998.38	8
7.69	20	7.75	13.65	30	103 Type A	1006.07	8
7.68	20	7.75	13.65	30	104 Type A	1013.75	8
7.67	20	7.75	13.65	30	105 Type A	1021.42	8
7.65	20	7.75	13.65	30	106 Type A	1029.07	8
7.63	20	7.75	13.65	30	107 Type A	1036.7	8
7.6	20	7.75	13.65	30	108 Type A	1044.3	8
7.58	20	7.75	13.65	30	109 Type A	1051.88	8
7.52	20	7.75	13.65	30	110 Type A	1059.4	8
7.52	20	7.75	13.65	30	111 Type A	1066.92	8
7.5	20	7.75	13.65	30	112 Type A	1074.42	8
7.49	20	7.75	13.65	30	113 Type A	1081.91	7
7.48	20	7.75	13.65	30	114 Type A	1089.39	7
7.47	20	7.75	13.65	30	115 Type A	1096.86	7
7.47	20	7.75	13.65	30	116 Type A	1104.33	7
7.43	20	7.75	13.65	30	117 Type A	1111.76	7
7.4	20	7.75	13.65	30	118 Type A	1119.16	7
7.38	20	7.75	13.65	30	119 Type A	1126.54	7
7.38	20	7.75	13.65	30	120 Type A	1133.92	7
7.37	20	7.75	13.65	30	121 Type A	1141.29	7
7.36	20	7.75	13.65	30	122 Type A	1148.65	7
7.35	20	7.75	13.65	30	123 Type A	1156	7
7.34	20	7.75	13.65	30	124 Type A	1163.34	7
7.32	20	7.75	13.65	30	125 Type A	1170.66	7
7.32	20	7.75	13.65	30	126 Type A	1177.98	7
7.31	20	7.75	13.65	30	127 Type A	1185.29	7
7.3	20	7.75	13.65	30	128 Type A	1192.59	7
7.29	20	7.75	13.65	30	129 Type A	1199.88	7
7.27	20	7.75	13.65	30	130 Type A	1207.15	7
7.27	20	7.75	13.65	30	131 Type A	1214.42	7
7.24	20	7.75	13.65	30	132 Type A	1221.66	7
7.23	20	7.75	13.65	30	133 Type A	1228.89	7
7.22	20	7.75	13.65	30	134 Type A	1236.11	7
7.21	20	7.75	13.65	30	135 Type A	1243.32	7
7.18	20	7.75	13.65	30	136 Type A	1250.5	7
7.15	20	7.75	13.65	30	137 Type A	1257.65	7
7.12	20	7.75	13.65	30	138 Type A	1264.77	7
7.09	20	7.75	13.65	30	139 Type A	1271.86	7
7	20	7.75	13.65	30	140 Type A	1278.86	7
6.97	20	7.75	13.65	30	141 Type A	1285.83	7
6.96	20	7.75	13.65	30	142 Type A	1292.79	7
6.95	20	7.75	13.65	30	143 Type A	1299.74	7
6.87	20	7.75	13.65	30	144 Type A	1306.61	7
6.86	20	7.75	13.65	30	145 Type A	1313.47	7
6.84	20	7.75	13.65	30	146 Type A	1320.31	7
6.83	20	7.75	13.65	30	147 Type A	1327.14	7
6.82	20	7.75	13.65	30	148 Type A	1333.96	7
6.82	20	7.75	13.65	30	149 Type A	1340.78	7
6.81	20	7.75	13.65	30	150 Type A	1347.59	7
6.78	20	7.75	13.65	30	151 Type A	1354.37	7
6.75	20	7.75	13.65	30	152 Type A	1361.12	7
6.72	20	7.75	13.65	30	153 Type A	1367.84	7
6.71	20	7.75	13.65	30	154 Type A	1374.55	7
6.71	20	7.75	13.65	30	155 Type A	1381.26	7
6.7	20	7.75	13.65	30	156 Type A	1387.96	7
6.61	20	7.75	13.65	30	157 Type A	1394.57	7
6.6	20	7.75	13.65	30	158 Type A	1401.17	7
6.59	20	7.75	13.65	30	159 Type A	1407.76	7
6.52	20	7.75	13.65	30	160 Type A	1414.28	7
6.52	20	7.75	13.65	30	161 Type A	1420.8	7
6.48	20	7.75	13.65	30	162 Type A	1427.28	6
6.45	20	7.75	13.65	30	163 Type A	1433.73	6
6.42	20	7.75	13.65	30	164 Type A	1440.15	6
6.41	20	7.75	13.65	30	165 Type A	1446.56	6
6.39	20	7.75	13.65	30	166 Type A	1452.95	6
6.37	20	7.75	13.65	30	167 Type A	1459.32	6

6.37	20	7.75	13.65	30	168 Type A	1465.69	6
6.36	20	7.75	13.65	30	169 Type A	1472.05	6
6.23	20	7.75	13.65	30	170 Type A	1478.28	6
6.22	20	7.75	13.65	30	171 Type A	1484.5	6
6.2	20	7.75	13.65	30	172 Type A	1490.7	6
6.13	20	7.75	13.65	30	173 Type A	1496.83	6
6.11	20	7.75	13.65	30	174 Type A	1502.94	6
6.1	20	7.75	13.65	30	175 Type A	1509.04	6
6.09	20	7.75	13.65	30	176 Type A	1515.13	6
6.08	20	7.75	13.65	30	177 Type A	1521.21	6
6.08	20	7.75	13.65	30	178 Type A	1527.29	6
6.07	20	7.75	13.65	30	179 Type A	1533.36	6
6.04	20	7.75	13.65	30	180 Type A	1539.4	6
6.03	20	7.75	13.65	30	181 Type A	1545.43	6
6.03	20	7.75	13.65	30	182 Type A	1551.46	6
5.96	20	7.75	13.65	30	183 Type A	1557.42	6
5.93	20	7.75	13.65	30	184 Type A	1563.35	6
5.92	20	7.75	13.65	30	185 Type A	1569.27	6
5.91	20	7.75	13.65	30	186 Type A	1575.18	6
5.9	20	7.75	13.65	30	187 Type A	1581.08	6
5.88	20	7.75	13.65	30	188 Type A	1586.96	6
5.88	20	7.75	13.65	30	189 Type A	1592.84	6
5.87	20	7.75	13.65	30	190 Type A	1598.71	6
5.84	20	7.75	13.65	30	191 Type A	1604.55	6
5.84	20	7.75	13.65	30	192 Type A	1610.39	6
5.81	20	7.75	13.65	30	193 Type A	1616.2	6
5.81	20	7.75	13.65	30	194 Type A	1622.01	6
5.79	20	7.75	13.65	30	195 Type A	1627.8	6
5.77	20	7.75	13.65	30	196 Type A	1633.57	6
5.77	20	7.75	13.65	30	197 Type A	1639.34	6
5.77	20	7.75	13.65	30	198 Type A	1645.11	6
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5.73	20	7.75	13.65	30	201 Type A	1662.36	6
5.71	20	7.75	13.65	30	202 Type A	1668.07	6
5.7	20	7.75	13.65	30	203 Type A	1673.77	6
5.69	20	7.75	13.65	30	204 Type A	1679.46	6
5.67	20	7.75	13.65	30	205 Type A	1685.13	6
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5.65	20	7.75	13.65	30	207 Type A	1696.44	6
5.65	20	7.75	13.65	30	208 Type A	1702.09	6
5.64	20	7.75	13.65	30	209 Type A	1707.73	6
5.62	20	7.75	13.65	30	210 Type A	1713.35	6
5.62	20	7.75	13.65	30	211 Type A	1718.97	6
5.6	20	7.75	13.65	30	212 Type A	1724.57	6
5.59	20	7.75	13.65	30	213 Type A	1730.16	6
5.59	20	7.75	13.65	30	214 Type A	1735.75	6
5.58	20	7.75	13.65	30	215 Type A	1741.33	6
5.55	20	7.75	13.65	30	216 Type A	1746.88	6
5.52	20	7.75	13.65	30	217 Type A	1752.4	6
5.51	20	7.75	13.65	30	218 Type A	1757.91	6
5.5	20	7.75	13.65	30	219 Type A	1763.41	6
5.47	20	7.75	13.65	30	220 Type A	1768.88	5
5.44	20	7.75	13.65	30	221 Type A	1774.32	5
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5.36	20	7.75	13.65	30	223 Type A	1785.12	5
5.32	20	7.75	13.65	30	224 Type A	1790.44	5
5.29	20	7.75	13.65	30	225 Type A	1795.73	5
5.29	20	7.75	13.65	30	226 Type A	1801.02	5
5.27	20	7.75	13.65	30	227 Type A	1806.29	5
5.27	20	7.75	13.65	30	228 Type A	1811.56	5
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5.23	20	7.75	13.65	30	230 Type A	1822.04	5
5.18	20	7.75	13.65	30	231 Type A	1827.22	5
5.18	20	7.75	13.65	30	232 Type A	1832.4	5
5.13	20	7.75	13.65	30	233 Type A	1837.53	5
5.11	20	7.75	13.65	30	234 Type A	1842.64	5
5.05	20	7.75	13.65	30	235 Type A	1847.69	5
5.03	20	7.75	13.65	30	236 Type A	1852.72	5
5.03	20	7.75	13.65	30	237 Type A	1857.75	5
5.01	20	7.75	13.65	30	238 Type A	1862.76	5
5	20	7.75	13.65	30	239 Type A	1867.76	5
4.96	20	7.75	13.65	30	240 Type A	1872.72	5
4.95	20	7.75	13.65	30	241 Type A	1877.67	5
4.94	20	7.75	13.65	30	242 Type A	1882.61	5
4.94	20	7.75	13.65	30	243 Type A	1887.55	5
4.92	20	7.75	13.65	30	244 Type A	1892.47	5
4.92	20	7.75	13.65	30	245 Type A	1897.39	5
4.89	20	7.75	13.65	30	246 Type A	1902.28	5
4.87	20	7.75	13.65	30	247 Type A	1907.15	5
4.86	20	7.75	13.65	30	248 Type A	1912.01	5
4.81	20	7.75	13.65	30	249 Type A	1916.82	5
4.81	20	7.75	13.65	30	250 Type A	1921.63	5
4.81	20	7.75	13.65	30	251 Type A	1926.44	5
4.78	20	7.75	13.65	30	252 Type A	1931.22	5
4.76	20	7.75	13.65	30	253 Type A	1935.98	5
4.76	20	7.75	13.65	30	254 Type A	1940.74	5

4.74	20	7.75	13.65	30	255 Type A	1945.48	5
4.67	20	7.75	13.65	30	256 Type A	1950.15	5
4.66	20	7.75	13.65	30	257 Type A	1954.81	5
4.65	20	7.75	13.65	30	258 Type A	1959.46	5
4.65	20	7.75	13.65	30	259 Type A	1964.11	5
4.62	20	7.75	13.65	30	260 Type A	1968.73	5
4.6	20	7.75	13.65	30	261 Type A	1973.33	5
4.59	20	7.75	13.65	30	262 Type A	1977.92	5
4.58	20	7.75	13.65	30	263 Type A	1982.5	5
4.57	20	7.75	13.65	30	264 Type A	1987.07	5
4.55	20	7.75	13.65	30	265 Type A	1991.62	5
4.54	20	7.75	13.65	30	266 Type A	1996.16	5
4.54	20	7.75	13.65	30	267 Type A	2000.7	5
4.53	20	7.75	13.65	30	268 Type A	2005.23	5
4.53	20	7.75	13.65	30	269 Type A	2009.76	5
4.52	20	7.75	13.65	30	270 Type A	2014.28	5
4.52	20	7.75	13.65	30	271 Type A	2018.8	5
4.46	20	7.75	13.65	30	272 Type A	2023.26	4
4.46	20	7.75	13.65	30	273 Type A	2027.72	4
4.45	20	7.75	13.65	30	274 Type A	2032.17	4
4.45	20	7.75	13.65	30	275 Type A	2036.62	4
4.44	20	7.75	13.65	30	276 Type A	2041.06	4
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4.43	20	7.75	13.65	30	278 Type A	2049.93	4
4.4	20	7.75	13.65	30	279 Type A	2054.33	4
4.38	20	7.75	13.65	30	280 Type A	2058.71	4
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4.12	20	7.75	13.65	30	295 Type A	2121.84	4
4.11	20	7.75	13.65	30	296 Type A	2125.95	4
4.08	20	7.75	13.65	30	297 Type A	2130.03	4
4.07	20	7.75	13.65	30	298 Type A	2134.1	4
4.06	20	7.75	13.65	30	299 Type A	2138.16	4
4	20	7.75	13.65	30	300 Type A	2142.16	4
3.99	20	7.75	13.65	30	301 Type A	2146.15	4
3.98	20	7.75	13.65	30	302 Type A	2150.13	4
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3.88	20	7.75	13.65	30	305 Type A	2161.8	4
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3.84	20	7.75	13.65	30	307 Type A	2169.5	4
3.81	20	7.75	13.65	30	308 Type A	2173.31	4
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3.43	20	7.75	13.65	30	319 Type A	2213.14	3
3.31	20	7.75	13.65	30	320 Type A	2216.45	3
3.23	20	7.75	13.65	30	321 Type A	2219.68	3
3.12	20	7.75	13.65	30	322 Type A	2222.8	3
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16	15	0.26	0.37	10	1 Type A	16	16
15.98	15	0.26	0.37	10	2 Type A	31.98	16
15.98	15	0.26	0.37	10	3 Type A	47.96	16
15.97	15	0.26	0.37	10	4 Type A	63.93	16
15.97	15	0.26	0.37	10	5 Type A	79.9	16
15.87	15	0.26	0.37	10	6 Type A	95.77	16
15.86	15	0.26	0.37	10	7 Type A	111.63	16
15.83	15	0.26	0.37	10	8 Type A	127.46	16
15.82	15	0.26	0.37	10	9 Type A	143.28	16
15.81	15	0.26	0.37	10	10 Type A	159.09	16
15.78	15	0.26	0.37	10	11 Type A	174.87	16
15.74	15	0.26	0.37	10	12 Type A	190.61	16
15.7	15	0.26	0.37	10	13 Type A	206.31	16
15.7	15	0.26	0.37	10	14 Type A	222.01	16

15.7	15	0.26	0.37	10	15 Type A	237.71	16
15.65	15	0.26	0.37	10	16 Type A	253.36	16
15.65	15	0.26	0.37	10	17 Type A	269.01	16
15.63	15	0.26	0.37	10	18 Type A	284.64	16
15.61	15	0.26	0.37	10	19 Type A	300.25	16
15.59	15	0.26	0.37	10	20 Type A	315.84	16
15.59	15	0.26	0.37	10	21 Type A	331.43	16
15.57	15	0.26	0.37	10	22 Type A	347	16
15.55	15	0.26	0.37	10	23 Type A	362.55	16
15.51	15	0.26	0.37	10	24 Type A	378.06	16
15.5	15	0.26	0.37	10	25 Type A	393.56	16
15.44	15	0.26	0.37	10	26 Type A	409	15
15.43	15	0.26	0.37	10	27 Type A	424.43	15
15.32	15	0.26	0.37	10	28 Type A	439.75	15
15.25	15	0.26	0.37	10	29 Type A	455	15
15.25	15	0.26	0.37	10	30 Type A	470.25	15
15.22	15	0.26	0.37	10	31 Type A	485.47	15
15.18	15	0.26	0.37	10	32 Type A	500.65	15
15.18	15	0.26	0.37	10	33 Type A	515.83	15
15.17	15	0.26	0.37	10	34 Type A	531	15
15.17	15	0.26	0.37	10	35 Type A	546.17	15
15.16	15	0.26	0.37	10	36 Type A	561.33	15
15.15	15	0.26	0.37	10	37 Type A	576.48	15
15.13	15	0.26	0.37	10	38 Type A	591.61	15
15.09	15	0.26	0.37	10	39 Type A	606.7	15
15.09	15	0.26	0.37	10	40 Type A	621.79	15
15.06	15	0.26	0.37	10	41 Type A	636.85	15
15.02	15	0.26	0.37	10	42 Type A	651.87	15
14.98	15	0.26	0.37	10	43 Type A	666.85	15
14.98	15	0.26	0.37	10	44 Type A	681.83	15
14.95	15	0.26	0.37	10	45 Type A	696.78	15
14.92	15	0.26	0.37	10	46 Type A	711.7	15
14.91	15	0.26	0.37	10	47 Type A	726.61	15
14.9	15	0.26	0.37	10	48 Type A	741.51	15
14.88	15	0.26	0.37	10	49 Type A	756.39	15
14.88	15	0.26	0.37	10	50 Type A	771.27	15
14.86	15	0.26	0.37	10	51 Type A	786.13	15
14.83	15	0.26	0.37	10	52 Type A	800.96	15
14.79	15	0.26	0.37	10	53 Type A	815.75	15
14.76	15	0.26	0.37	10	54 Type A	830.51	15
14.74	15	0.26	0.37	10	55 Type A	845.25	15
14.73	15	0.26	0.37	10	56 Type A	859.98	15
14.72	15	0.26	0.37	10	57 Type A	874.7	15
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14.7	15	0.26	0.37	10	59 Type A	904.12	15
14.6	15	0.26	0.37	10	60 Type A	918.72	15
14.55	15	0.26	0.37	10	61 Type A	933.27	15
14.49	15	0.26	0.37	10	62 Type A	947.76	14
14.48	15	0.26	0.37	10	63 Type A	962.24	14
14.48	15	0.26	0.37	10	64 Type A	976.72	14
14.45	15	0.26	0.37	10	65 Type A	991.17	14
14.4	15	0.26	0.37	10	66 Type A	1005.57	14
14.4	15	0.26	0.37	10	67 Type A	1019.97	14
14.39	15	0.26	0.37	10	68 Type A	1034.36	14
14.36	15	0.26	0.37	10	69 Type A	1048.72	14
14.34	15	0.26	0.37	10	70 Type A	1063.06	14
14.34	15	0.26	0.37	10	71 Type A	1077.4	14
14.33	15	0.26	0.37	10	72 Type A	1091.73	14
14.33	15	0.26	0.37	10	73 Type A	1106.06	14
14.32	15	0.26	0.37	10	74 Type A	1120.38	14
14.31	15	0.26	0.37	10	75 Type A	1134.69	14
14.19	15	0.26	0.37	10	76 Type A	1148.88	14
14.16	15	0.26	0.37	10	77 Type A	1163.04	14
14.14	15	0.26	0.37	10	78 Type A	1177.18	14
14.12	15	0.26	0.37	10	79 Type A	1191.3	14
14.1	15	0.26	0.37	10	80 Type A	1205.4	14
14.04	15	0.26	0.37	10	81 Type A	1219.44	14
14.04	15	0.26	0.37	10	82 Type A	1233.48	14
14.01	15	0.26	0.37	10	83 Type A	1247.49	14
14	15	0.26	0.37	10	84 Type A	1261.49	14
13.93	15	0.26	0.37	10	85 Type A	1275.42	14
13.83	15	0.26	0.37	10	86 Type A	1289.25	14
12.84	15	0.26	0.37	10	87 Type A	1302.09	13
10.91	15	0.26	0.37	10	88 Type A	1313	11
10.9	15	0.26	0.37	10	89 Type A	1323.9	11
10.78	15	0.26	0.37	10	90 Type A	1334.68	11
10.73	15	0.26	0.37	10	91 Type A	1345.41	11
10.7	15	0.26	0.37	10	92 Type A	1356.11	11
10.54	15	0.26	0.37	10	93 Type A	1366.65	11
10.5	15	0.26	0.37	10	94 Type A	1377.15	11
10.47	15	0.26	0.37	10	95 Type A	1387.62	10
9.8	15	0.26	0.37	10	96 Type A	1397.42	10
9.77	15	0.26	0.37	10	97 Type A	1407.19	10
9.73	15	0.26	0.37	10	98 Type A	1416.92	10
9.47	15	0.26	0.37	10	99 Type A	1426.39	9
8.73	15	0.26	0.37	10	100 Type A	1435.12	9
8.52	15	0.26	0.37	10	101 Type A	1443.64	9

8.32	15	0.26	0.37	10	102 Type A	1451.96	8
8.21	15	0.26	0.37	10	103 Type A	1460.17	8
8.15	15	0.26	0.37	10	104 Type A	1468.32	8
8.09	15	0.26	0.37	10	105 Type A	1476.41	8
7.82	15	0.26	0.37	10	106 Type A	1484.23	8
7.68	15	0.26	0.37	10	107 Type A	1491.91	8
7.21	15	0.26	0.37	10	108 Type A	1499.12	7
6.81	15	0.26	0.37	10	109 Type A	1505.93	7
6.7	15	0.26	0.37	10	110 Type A	1512.63	7
6.07	15	0.26	0.37	10	111 Type A	1518.7	6
6.05	15	0.26	0.37	10	112 Type A	1524.75	6
5.07	15	0.26	0.37	10	113 Type A	1529.82	5
4.87	15	0.26	0.37	10	114 Type A	1534.69	5
4.2	15	0.26	0.37	10	115 Type A	1538.89	4
16	15	1.77	2.6	20	1 Type A	16	16
15.92	15	1.77	2.6	20	2 Type A	31.92	16
15.9	15	1.77	2.6	20	3 Type A	47.82	16
15.83	15	1.77	2.6	20	4 Type A	63.65	16
15.79	15	1.77	2.6	20	5 Type A	79.44	16
15.71	15	1.77	2.6	20	6 Type A	95.15	16
15.61	15	1.77	2.6	20	7 Type A	110.76	16
15.49	15	1.77	2.6	20	8 Type A	126.25	15
15.47	15	1.77	2.6	20	9 Type A	141.72	15
15.44	15	1.77	2.6	20	10 Type A	157.16	15
15.41	15	1.77	2.6	20	11 Type A	172.57	15
15.4	15	1.77	2.6	20	12 Type A	187.97	15
15.35	15	1.77	2.6	20	13 Type A	203.32	15
15.01	15	1.77	2.6	20	14 Type A	218.33	15
14.92	15	1.77	2.6	20	15 Type A	233.25	15
14.86	15	1.77	2.6	20	16 Type A	248.11	15
14.51	15	1.77	2.6	20	17 Type A	262.62	15
14.35	15	1.77	2.6	20	18 Type A	276.97	14
14.19	15	1.77	2.6	20	19 Type A	291.16	14
14.15	15	1.77	2.6	20	20 Type A	305.31	14
14	15	1.77	2.6	20	21 Type A	319.31	14
13.85	15	1.77	2.6	20	22 Type A	333.16	14
13.61	15	1.77	2.6	20	23 Type A	346.77	14
13.56	15	1.77	2.6	20	24 Type A	360.33	14
13.41	15	1.77	2.6	20	25 Type A	373.74	13
13.06	15	1.77	2.6	20	26 Type A	386.8	13
12.6	15	1.77	2.6	20	27 Type A	399.4	13
12.37	15	1.77	2.6	20	28 Type A	411.77	12
12.35	15	1.77	2.6	20	29 Type A	424.12	12
11.9	15	1.77	2.6	20	30 Type A	436.02	12
11.85	15	1.77	2.6	20	31 Type A	447.87	12
11.69	15	1.77	2.6	20	32 Type A	459.56	12
11.69	15	1.77	2.6	20	33 Type A	471.25	12
11.49	15	1.77	2.6	20	34 Type A	482.74	11
11.44	15	1.77	2.6	20	35 Type A	494.18	11
11.33	15	1.77	2.6	20	36 Type A	505.51	11
11.16	15	1.77	2.6	20	37 Type A	516.67	11
11.08	15	1.77	2.6	20	38 Type A	527.75	11
10.92	15	1.77	2.6	20	39 Type A	538.67	11
10.84	15	1.77	2.6	20	40 Type A	549.51	11
10.8	15	1.77	2.6	20	41 Type A	560.31	11
10.72	15	1.77	2.6	20	42 Type A	571.03	11
10.71	15	1.77	2.6	20	43 Type A	581.74	11
10.71	15	1.77	2.6	20	44 Type A	592.45	11
10.68	15	1.77	2.6	20	45 Type A	603.13	11
10.61	15	1.77	2.6	20	46 Type A	613.74	11
10.55	15	1.77	2.6	20	47 Type A	624.29	11
10.55	15	1.77	2.6	20	48 Type A	634.84	11
10.53	15	1.77	2.6	20	49 Type A	645.37	11
10.29	15	1.77	2.6	20	50 Type A	655.66	10
10.15	15	1.77	2.6	20	51 Type A	665.81	10
10.14	15	1.77	2.6	20	52 Type A	675.95	10
9.94	15	1.77	2.6	20	53 Type A	685.89	10
9.89	15	1.77	2.6	20	54 Type A	695.78	10
9.83	15	1.77	2.6	20	55 Type A	705.61	10
9.74	15	1.77	2.6	20	56 Type A	715.35	10
9.74	15	1.77	2.6	20	57 Type A	725.09	10
9.69	15	1.77	2.6	20	58 Type A	734.78	10
9.67	15	1.77	2.6	20	59 Type A	744.45	10
9.65	15	1.77	2.6	20	60 Type A	754.1	10
9.59	15	1.77	2.6	20	61 Type A	763.69	10
9.58	15	1.77	2.6	20	62 Type A	773.27	10
9.57	15	1.77	2.6	20	63 Type A	782.84	10
9.55	15	1.77	2.6	20	64 Type A	792.39	10
9.5	15	1.77	2.6	20	65 Type A	801.89	10
9.36	15	1.77	2.6	20	66 Type A	811.25	9
9.26	15	1.77	2.6	20	67 Type A	820.51	9
9.26	15	1.77	2.6	20	68 Type A	829.77	9
9.25	15	1.77	2.6	20	69 Type A	839.02	9
9.24	15	1.77	2.6	20	70 Type A	848.26	9
9.23	15	1.77	2.6	20	71 Type A	857.49	9
9.14	15	1.77	2.6	20	72 Type A	866.63	9
9.04	15	1.77	2.6	20	73 Type A	875.67	9

9.02	15	1.77	2.6	20	74 Type A	884.69	9
9.02	15	1.77	2.6	20	75 Type A	893.71	9
9.01	15	1.77	2.6	20	76 Type A	902.72	9
8.88	15	1.77	2.6	20	77 Type A	911.6	9
8.79	15	1.77	2.6	20	78 Type A	920.39	9
8.74	15	1.77	2.6	20	79 Type A	929.13	9
8.69	15	1.77	2.6	20	80 Type A	937.82	9
8.68	15	1.77	2.6	20	81 Type A	946.5	9
8.51	15	1.77	2.6	20	82 Type A	955.01	9
8.48	15	1.77	2.6	20	83 Type A	963.49	8
8.48	15	1.77	2.6	20	84 Type A	971.97	8
8.47	15	1.77	2.6	20	85 Type A	980.44	8
8.33	15	1.77	2.6	20	86 Type A	988.77	8
8.3	15	1.77	2.6	20	87 Type A	997.07	8
8.19	15	1.77	2.6	20	88 Type A	1005.26	8
8.17	15	1.77	2.6	20	89 Type A	1013.43	8
8.11	15	1.77	2.6	20	90 Type A	1021.54	8
8.1	15	1.77	2.6	20	91 Type A	1029.64	8
8.07	15	1.77	2.6	20	92 Type A	1037.71	8
8.07	15	1.77	2.6	20	93 Type A	1045.78	8
7.93	15	1.77	2.6	20	94 Type A	1053.71	8
7.93	15	1.77	2.6	20	95 Type A	1061.64	8
7.9	15	1.77	2.6	20	96 Type A	1069.54	8
7.89	15	1.77	2.6	20	97 Type A	1077.43	8
7.77	15	1.77	2.6	20	98 Type A	1085.2	8
7.75	15	1.77	2.6	20	99 Type A	1092.95	8
7.74	15	1.77	2.6	20	100 Type A	1100.69	8
7.71	15	1.77	2.6	20	101 Type A	1108.4	8
7.7	15	1.77	2.6	20	102 Type A	1116.1	8
7.68	15	1.77	2.6	20	103 Type A	1123.78	8
7.49	15	1.77	2.6	20	104 Type A	1131.27	7
7.45	15	1.77	2.6	20	105 Type A	1138.72	7
7.42	15	1.77	2.6	20	106 Type A	1146.14	7
7.36	15	1.77	2.6	20	107 Type A	1153.5	7
7.36	15	1.77	2.6	20	108 Type A	1160.86	7
7.35	15	1.77	2.6	20	109 Type A	1168.21	7
7.3	15	1.77	2.6	20	110 Type A	1175.51	7
7.29	15	1.77	2.6	20	111 Type A	1182.8	7
7.27	15	1.77	2.6	20	112 Type A	1190.07	7
7.27	15	1.77	2.6	20	113 Type A	1197.34	7
7.26	15	1.77	2.6	20	114 Type A	1204.6	7
7.25	15	1.77	2.6	20	115 Type A	1211.85	7
7.24	15	1.77	2.6	20	116 Type A	1219.09	7
7.11	15	1.77	2.6	20	117 Type A	1226.2	7
7.07	15	1.77	2.6	20	118 Type A	1233.27	7
7.06	15	1.77	2.6	20	119 Type A	1240.33	7
6.99	15	1.77	2.6	20	120 Type A	1247.32	7
6.98	15	1.77	2.6	20	121 Type A	1254.3	7
6.84	15	1.77	2.6	20	122 Type A	1261.14	7
6.82	15	1.77	2.6	20	123 Type A	1267.96	7
6.79	15	1.77	2.6	20	124 Type A	1274.75	7
6.76	15	1.77	2.6	20	125 Type A	1281.51	7
6.73	15	1.77	2.6	20	126 Type A	1288.24	7
6.69	15	1.77	2.6	20	127 Type A	1294.93	7
6.67	15	1.77	2.6	20	128 Type A	1301.6	7
6.62	15	1.77	2.6	20	129 Type A	1308.22	7
6.59	15	1.77	2.6	20	130 Type A	1314.81	7
6.57	15	1.77	2.6	20	131 Type A	1321.38	7
6.56	15	1.77	2.6	20	132 Type A	1327.94	7
6.55	15	1.77	2.6	20	133 Type A	1334.49	7
6.51	15	1.77	2.6	20	134 Type A	1341	7
6.51	15	1.77	2.6	20	135 Type A	1347.51	7
6.41	15	1.77	2.6	20	136 Type A	1353.92	6
6.3	15	1.77	2.6	20	137 Type A	1360.22	6
6.11	15	1.77	2.6	20	138 Type A	1366.33	6
6.07	15	1.77	2.6	20	139 Type A	1372.4	6
6.04	15	1.77	2.6	20	140 Type A	1378.44	6
6.04	15	1.77	2.6	20	141 Type A	1384.48	6
5.96	15	1.77	2.6	20	142 Type A	1390.44	6
5.92	15	1.77	2.6	20	143 Type A	1396.36	6
5.8	15	1.77	2.6	20	144 Type A	1402.16	6
5.77	15	1.77	2.6	20	145 Type A	1407.93	6
5.74	15	1.77	2.6	20	146 Type A	1413.67	6
5.72	15	1.77	2.6	20	147 Type A	1419.39	6
5.71	15	1.77	2.6	20	148 Type A	1425.1	6
5.7	15	1.77	2.6	20	149 Type A	1430.8	6
5.7	15	1.77	2.6	20	150 Type A	1436.5	6
5.68	15	1.77	2.6	20	151 Type A	1442.18	6
5.66	15	1.77	2.6	20	152 Type A	1447.84	6
5.61	15	1.77	2.6	20	153 Type A	1453.45	6
5.59	15	1.77	2.6	20	154 Type A	1459.04	6
5.58	15	1.77	2.6	20	155 Type A	1464.62	6
5.46	15	1.77	2.6	20	156 Type A	1470.08	5
5.44	15	1.77	2.6	20	157 Type A	1475.52	5
5.42	15	1.77	2.6	20	158 Type A	1480.94	5
5.41	15	1.77	2.6	20	159 Type A	1486.35	5
5.33	15	1.77	2.6	20	160 Type A	1491.68	5

5.3	15	1.77	2.6	20	161 Type A	1496.98	5
5.29	15	1.77	2.6	20	162 Type A	1502.27	5
5.28	15	1.77	2.6	20	163 Type A	1507.55	5
5.28	15	1.77	2.6	20	164 Type A	1512.83	5
5.25	15	1.77	2.6	20	165 Type A	1518.08	5
5.22	15	1.77	2.6	20	166 Type A	1523.3	5
5.18	15	1.77	2.6	20	167 Type A	1528.48	5
5.1	15	1.77	2.6	20	168 Type A	1533.58	5
5.02	15	1.77	2.6	20	169 Type A	1538.6	5
5.02	15	1.77	2.6	20	170 Type A	1543.62	5
4.8	15	1.77	2.6	20	171 Type A	1548.42	5
4.7	15	1.77	2.6	20	172 Type A	1553.12	5
4.65	15	1.77	2.6	20	173 Type A	1557.77	5
4.62	15	1.77	2.6	20	174 Type A	1562.39	5
4.58	15	1.77	2.6	20	175 Type A	1566.97	5
4.5	15	1.77	2.6	20	176 Type A	1571.47	5
4.38	15	1.77	2.6	20	177 Type A	1575.85	4
4.35	15	1.77	2.6	20	178 Type A	1580.2	4
4.27	15	1.77	2.6	20	179 Type A	1584.47	4
4.17	15	1.77	2.6	20	180 Type A	1588.64	4
4.11	15	1.77	2.6	20	181 Type A	1592.75	4
4.11	15	1.77	2.6	20	182 Type A	1596.86	4
3.88	15	1.77	2.6	20	183 Type A	1600.74	4
3.86	15	1.77	2.6	20	184 Type A	1604.6	4
3.86	15	1.77	2.6	20	185 Type A	1608.46	4
3.68	15	1.77	2.6	20	186 Type A	1612.14	4
3.67	15	1.77	2.6	20	187 Type A	1615.81	4
3.61	15	1.77	2.6	20	188 Type A	1619.42	4
3.61	15	1.77	2.6	20	189 Type A	1623.03	4
3.45	15	1.77	2.6	20	190 Type A	1626.48	3
3.38	15	1.77	2.6	20	191 Type A	1629.86	3
3.29	15	1.77	2.6	20	192 Type A	1633.15	3
2.8	15	1.77	2.6	20	193 Type A	1635.95	3
2.57	15	1.77	2.6	20	194 Type A	1638.52	3
2.53	15	1.77	2.6	20	195 Type A	1641.05	3
15.59	15	5.88	11.6	30	1 Type A	15.59	16
14.27	15	5.88	11.6	30	2 Type A	29.86	14
13.31	15	5.88	11.6	30	3 Type A	43.17	13
12.49	15	5.88	11.6	30	4 Type A	55.66	12
12.31	15	5.88	11.6	30	5 Type A	67.97	12
11.87	15	5.88	11.6	30	6 Type A	79.84	12
11.73	15	5.88	11.6	30	7 Type A	91.57	12
11.72	15	5.88	11.6	30	8 Type A	103.29	12
11.4	15	5.88	11.6	30	9 Type A	114.69	11
11.24	15	5.88	11.6	30	10 Type A	125.93	11
11.08	15	5.88	11.6	30	11 Type A	137.01	11
10.97	15	5.88	11.6	30	12 Type A	147.98	11
10.73	15	5.88	11.6	30	13 Type A	158.71	11
10.68	15	5.88	11.6	30	14 Type A	169.39	11
10.6	15	5.88	11.6	30	15 Type A	179.99	11
10.56	15	5.88	11.6	30	16 Type A	190.55	11
10.46	15	5.88	11.6	30	17 Type A	201.01	10
10.43	15	5.88	11.6	30	18 Type A	211.44	10
10.41	15	5.88	11.6	30	19 Type A	221.85	10
10.38	15	5.88	11.6	30	20 Type A	232.23	10
10.34	15	5.88	11.6	30	21 Type A	242.57	10
10.33	15	5.88	11.6	30	22 Type A	252.9	10
10.27	15	5.88	11.6	30	23 Type A	263.17	10
10.19	15	5.88	11.6	30	24 Type A	273.36	10
10.07	15	5.88	11.6	30	25 Type A	283.43	10
9.96	15	5.88	11.6	30	26 Type A	293.39	10
9.8	15	5.88	11.6	30	27 Type A	303.19	10
9.76	15	5.88	11.6	30	28 Type A	312.95	10
9.53	15	5.88	11.6	30	29 Type A	322.48	10
9.37	15	5.88	11.6	30	30 Type A	331.85	9
9.32	15	5.88	11.6	30	31 Type A	341.17	9
9.24	15	5.88	11.6	30	32 Type A	350.41	9
9.18	15	5.88	11.6	30	33 Type A	359.59	9
9.16	15	5.88	11.6	30	34 Type A	368.75	9
9.06	15	5.88	11.6	30	35 Type A	377.81	9
9.05	15	5.88	11.6	30	36 Type A	386.86	9
9.04	15	5.88	11.6	30	37 Type A	395.9	9
8.97	15	5.88	11.6	30	38 Type A	404.87	9
8.97	15	5.88	11.6	30	39 Type A	413.84	9
8.85	15	5.88	11.6	30	40 Type A	422.69	9
8.79	15	5.88	11.6	30	41 Type A	431.48	9
8.77	15	5.88	11.6	30	42 Type A	440.25	9
8.72	15	5.88	11.6	30	43 Type A	448.97	9
8.63	15	5.88	11.6	30	44 Type A	457.6	9
8.6	15	5.88	11.6	30	45 Type A	466.2	9
8.55	15	5.88	11.6	30	46 Type A	474.75	9
8.47	15	5.88	11.6	30	47 Type A	483.22	8
8.43	15	5.88	11.6	30	48 Type A	491.65	8
8.15	15	5.88	11.6	30	49 Type A	499.8	8
7.91	15	5.88	11.6	30	50 Type A	507.71	8
7.85	15	5.88	11.6	30	51 Type A	515.56	8
7.81	15	5.88	11.6	30	52 Type A	523.37	8

7.71	15	5.88	11.6	30	53 Type A	531.08	8
7.71	15	5.88	11.6	30	54 Type A	538.79	8
7.68	15	5.88	11.6	30	55 Type A	546.47	8
7.66	15	5.88	11.6	30	56 Type A	554.13	8
7.66	15	5.88	11.6	30	57 Type A	561.79	8
7.62	15	5.88	11.6	30	58 Type A	569.41	8
7.57	15	5.88	11.6	30	59 Type A	576.98	8
7.56	15	5.88	11.6	30	60 Type A	584.54	8
7.55	15	5.88	11.6	30	61 Type A	592.09	8
7.5	15	5.88	11.6	30	62 Type A	599.59	8
7.49	15	5.88	11.6	30	63 Type A	607.08	7
7.49	15	5.88	11.6	30	64 Type A	614.57	7
7.39	15	5.88	11.6	30	65 Type A	621.96	7
7.38	15	5.88	11.6	30	66 Type A	629.34	7
7.35	15	5.88	11.6	30	67 Type A	636.69	7
7.34	15	5.88	11.6	30	68 Type A	644.03	7
7.33	15	5.88	11.6	30	69 Type A	651.36	7
7.32	15	5.88	11.6	30	70 Type A	658.68	7
7.23	15	5.88	11.6	30	71 Type A	665.91	7
7.22	15	5.88	11.6	30	72 Type A	673.13	7
7.22	15	5.88	11.6	30	73 Type A	680.35	7
7.2	15	5.88	11.6	30	74 Type A	687.55	7
7.19	15	5.88	11.6	30	75 Type A	694.74	7
7.19	15	5.88	11.6	30	76 Type A	701.93	7
7.16	15	5.88	11.6	30	77 Type A	709.09	7
7.1	15	5.88	11.6	30	78 Type A	716.19	7
7.07	15	5.88	11.6	30	79 Type A	723.26	7
7.03	15	5.88	11.6	30	80 Type A	730.29	7
7	15	5.88	11.6	30	81 Type A	737.29	7
6.96	15	5.88	11.6	30	82 Type A	744.25	7
6.94	15	5.88	11.6	30	83 Type A	751.19	7
6.92	15	5.88	11.6	30	84 Type A	758.11	7
6.91	15	5.88	11.6	30	85 Type A	765.02	7
6.87	15	5.88	11.6	30	86 Type A	771.89	7
6.86	15	5.88	11.6	30	87 Type A	778.75	7
6.85	15	5.88	11.6	30	88 Type A	785.6	7
6.85	15	5.88	11.6	30	89 Type A	792.45	7
6.8	15	5.88	11.6	30	90 Type A	799.25	7
6.79	15	5.88	11.6	30	91 Type A	806.04	7
6.74	15	5.88	11.6	30	92 Type A	812.78	7
6.71	15	5.88	11.6	30	93 Type A	819.49	7
6.65	15	5.88	11.6	30	94 Type A	826.14	7
6.64	15	5.88	11.6	30	95 Type A	832.78	7
6.59	15	5.88	11.6	30	96 Type A	839.37	7
6.56	15	5.88	11.6	30	97 Type A	845.93	7
6.52	15	5.88	11.6	30	98 Type A	852.45	7
6.51	15	5.88	11.6	30	99 Type A	858.96	7
6.51	15	5.88	11.6	30	100 Type A	865.47	7
6.51	15	5.88	11.6	30	101 Type A	871.98	7
6.49	15	5.88	11.6	30	102 Type A	878.47	6
6.48	15	5.88	11.6	30	103 Type A	884.95	6
6.45	15	5.88	11.6	30	104 Type A	891.4	6
6.45	15	5.88	11.6	30	105 Type A	897.85	6
6.41	15	5.88	11.6	30	106 Type A	904.26	6
6.38	15	5.88	11.6	30	107 Type A	910.64	6
6.34	15	5.88	11.6	30	108 Type A	916.98	6
6.33	15	5.88	11.6	30	109 Type A	923.31	6
6.31	15	5.88	11.6	30	110 Type A	929.62	6
6.29	15	5.88	11.6	30	111 Type A	935.91	6
6.23	15	5.88	11.6	30	112 Type A	942.14	6
6.22	15	5.88	11.6	30	113 Type A	948.36	6
6.2	15	5.88	11.6	30	114 Type A	954.56	6
6.19	15	5.88	11.6	30	115 Type A	960.75	6
6.18	15	5.88	11.6	30	116 Type A	966.93	6
6.16	15	5.88	11.6	30	117 Type A	973.09	6
6.1	15	5.88	11.6	30	118 Type A	979.19	6
6.08	15	5.88	11.6	30	119 Type A	985.27	6
6.07	15	5.88	11.6	30	120 Type A	991.34	6
6.07	15	5.88	11.6	30	121 Type A	997.41	6
6.02	15	5.88	11.6	30	122 Type A	1003.43	6
6	15	5.88	11.6	30	123 Type A	1009.43	6
5.99	15	5.88	11.6	30	124 Type A	1015.42	6
5.99	15	5.88	11.6	30	125 Type A	1021.41	6
5.88	15	5.88	11.6	30	126 Type A	1027.29	6
5.84	15	5.88	11.6	30	127 Type A	1033.13	6
5.82	15	5.88	11.6	30	128 Type A	1038.95	6
5.82	15	5.88	11.6	30	129 Type A	1044.77	6
5.8	15	5.88	11.6	30	130 Type A	1050.57	6
5.78	15	5.88	11.6	30	131 Type A	1056.35	6
5.77	15	5.88	11.6	30	132 Type A	1062.12	6
5.77	15	5.88	11.6	30	133 Type A	1067.89	6
5.75	15	5.88	11.6	30	134 Type A	1073.64	6
5.72	15	5.88	11.6	30	135 Type A	1079.36	6
5.7	15	5.88	11.6	30	136 Type A	1085.06	6
5.67	15	5.88	11.6	30	137 Type A	1090.73	6
5.66	15	5.88	11.6	30	138 Type A	1096.39	6
5.65	15	5.88	11.6	30	139 Type A	1102.04	6

5.65	15	5.88	11.6	30	140 Type A	1107.69	6
5.59	15	5.88	11.6	30	141 Type A	1113.28	6
5.57	15	5.88	11.6	30	142 Type A	1118.85	6
5.52	15	5.88	11.6	30	143 Type A	1124.37	6
5.52	15	5.88	11.6	30	144 Type A	1129.89	6
5.51	15	5.88	11.6	30	145 Type A	1135.4	6
5.48	15	5.88	11.6	30	146 Type A	1140.88	5
5.46	15	5.88	11.6	30	147 Type A	1146.34	5
5.43	15	5.88	11.6	30	148 Type A	1151.77	5
5.42	15	5.88	11.6	30	149 Type A	1157.19	5
5.42	15	5.88	11.6	30	150 Type A	1162.61	5
5.38	15	5.88	11.6	30	151 Type A	1167.99	5
5.34	15	5.88	11.6	30	152 Type A	1173.33	5
5.31	15	5.88	11.6	30	153 Type A	1178.64	5
5.28	15	5.88	11.6	30	154 Type A	1183.92	5
5.27	15	5.88	11.6	30	155 Type A	1189.19	5
5.25	15	5.88	11.6	30	156 Type A	1194.44	5
5.23	15	5.88	11.6	30	157 Type A	1199.67	5
5.23	15	5.88	11.6	30	158 Type A	1204.9	5
5.21	15	5.88	11.6	30	159 Type A	1210.11	5
5.19	15	5.88	11.6	30	160 Type A	1215.3	5
5.17	15	5.88	11.6	30	161 Type A	1220.47	5
5.17	15	5.88	11.6	30	162 Type A	1225.64	5
5.17	15	5.88	11.6	30	163 Type A	1230.81	5
5.16	15	5.88	11.6	30	164 Type A	1235.97	5
5.15	15	5.88	11.6	30	165 Type A	1241.12	5
5.14	15	5.88	11.6	30	166 Type A	1246.26	5
5.14	15	5.88	11.6	30	167 Type A	1251.4	5
5.12	15	5.88	11.6	30	168 Type A	1256.52	5
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4.96	15	5.88	11.6	30	179 Type A	1312.12	5
4.95	15	5.88	11.6	30	180 Type A	1317.07	5
4.93	15	5.88	11.6	30	181 Type A	1322	5
4.92	15	5.88	11.6	30	182 Type A	1326.92	5
4.91	15	5.88	11.6	30	183 Type A	1331.83	5
4.87	15	5.88	11.6	30	184 Type A	1336.7	5
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4.82	15	5.88	11.6	30	186 Type A	1346.36	5
4.81	15	5.88	11.6	30	187 Type A	1351.17	5
4.81	15	5.88	11.6	30	188 Type A	1355.98	5
4.8	15	5.88	11.6	30	189 Type A	1360.78	5
4.79	15	5.88	11.6	30	190 Type A	1365.57	5
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4.78	15	5.88	11.6	30	193 Type A	1379.93	5
4.78	15	5.88	11.6	30	194 Type A	1384.71	5
4.77	15	5.88	11.6	30	195 Type A	1389.48	5
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4.47	15	5.88	11.6	30	213 Type A	1472.01	4
4.41	15	5.88	11.6	30	214 Type A	1476.42	4
4.39	15	5.88	11.6	30	215 Type A	1480.81	4
4.34	15	5.88	11.6	30	216 Type A	1485.15	4
4.32	15	5.88	11.6	30	217 Type A	1489.47	4
4.32	15	5.88	11.6	30	218 Type A	1493.79	4
4.22	15	5.88	11.6	30	219 Type A	1498.01	4
4.19	15	5.88	11.6	30	220 Type A	1502.2	4
4.12	15	5.88	11.6	30	221 Type A	1506.32	4
4.11	15	5.88	11.6	30	222 Type A	1510.43	4
4.1	15	5.88	11.6	30	223 Type A	1514.53	4
4.07	15	5.88	11.6	30	224 Type A	1518.6	4
4.04	15	5.88	11.6	30	225 Type A	1522.64	4
4.01	15	5.88	11.6	30	226 Type A	1526.65	4

4.01	15	5.88	11.6	30	227 Type A	1530.66	4
3.96	15	5.88	11.6	30	228 Type A	1534.62	4
3.94	15	5.88	11.6	30	229 Type A	1538.56	4
3.89	15	5.88	11.6	30	230 Type A	1542.45	4
3.86	15	5.88	11.6	30	231 Type A	1546.31	4
3.83	15	5.88	11.6	30	232 Type A	1550.14	4
3.82	15	5.88	11.6	30	233 Type A	1553.96	4
3.77	15	5.88	11.6	30	234 Type A	1557.73	4
3.74	15	5.88	11.6	30	235 Type A	1561.47	4
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3.25	15	5.88	11.6	30	243 Type A	1590.13	3
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3.05	15	5.88	11.6	30	246 Type A	1599.38	3
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2.61	15	5.88	11.6	30	250 Type A	1610.49	3
2.58	15	5.88	11.6	30	251 Type A	1613.07	3
2.37	15	5.88	11.6	30	252 Type A	1615.44	2
11.33	10	0.15	0.15	10	1 Type A	11.33	11
11.3	10	0.15	0.15	10	2 Type A	22.63	11
11.24	10	0.15	0.15	10	3 Type A	33.87	11
11.1	10	0.15	0.15	10	4 Type A	44.97	11
11.08	10	0.15	0.15	10	5 Type A	56.05	11
11.06	10	0.15	0.15	10	6 Type A	67.11	11
11.04	10	0.15	0.15	10	7 Type A	78.15	11
11.01	10	0.15	0.15	10	8 Type A	89.16	11
11	10	0.15	0.15	10	9 Type A	100.16	11
10.99	10	0.15	0.15	10	10 Type A	111.15	11
10.98	10	0.15	0.15	10	11 Type A	122.13	11
10.96	10	0.15	0.15	10	12 Type A	133.09	11
10.96	10	0.15	0.15	10	13 Type A	144.05	11
10.94	10	0.15	0.15	10	14 Type A	154.99	11
10.93	10	0.15	0.15	10	15 Type A	165.92	11
10.92	10	0.15	0.15	10	16 Type A	176.84	11
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10.88	10	0.15	0.15	10	18 Type A	198.61	11
10.87	10	0.15	0.15	10	19 Type A	209.48	11
10.87	10	0.15	0.15	10	20 Type A	220.35	11
10.82	10	0.15	0.15	10	21 Type A	231.17	11
10.82	10	0.15	0.15	10	22 Type A	241.99	11
10.8	10	0.15	0.15	10	23 Type A	252.79	11
10.78	10	0.15	0.15	10	24 Type A	263.57	11
10.75	10	0.15	0.15	10	25 Type A	274.32	11
10.75	10	0.15	0.15	10	26 Type A	285.07	11
10.75	10	0.15	0.15	10	27 Type A	295.82	11
10.74	10	0.15	0.15	10	28 Type A	306.56	11
10.74	10	0.15	0.15	10	29 Type A	317.3	11
10.72	10	0.15	0.15	10	30 Type A	328.02	11
10.64	10	0.15	0.15	10	31 Type A	338.66	11
10.63	10	0.15	0.15	10	32 Type A	349.29	11
10.61	10	0.15	0.15	10	33 Type A	359.9	11
10.59	10	0.15	0.15	10	34 Type A	370.49	11
10.59	10	0.15	0.15	10	35 Type A	381.08	11
10.57	10	0.15	0.15	10	36 Type A	391.65	11
10.56	10	0.15	0.15	10	37 Type A	402.21	11
10.53	10	0.15	0.15	10	38 Type A	412.74	11
10.51	10	0.15	0.15	10	39 Type A	423.25	11
10.51	10	0.15	0.15	10	40 Type A	433.76	11
10.49	10	0.15	0.15	10	41 Type A	444.25	10
10.47	10	0.15	0.15	10	42 Type A	454.72	10
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10.44	10	0.15	0.15	10	44 Type A	475.62	10
10.44	10	0.15	0.15	10	45 Type A	486.06	10
10.44	10	0.15	0.15	10	46 Type A	496.5	10
10.42	10	0.15	0.15	10	47 Type A	506.92	10
10.41	10	0.15	0.15	10	48 Type A	517.33	10
10.34	10	0.15	0.15	10	49 Type A	527.67	10
10.34	10	0.15	0.15	10	50 Type A	538.01	10
10.33	10	0.15	0.15	10	51 Type A	548.34	10
10.31	10	0.15	0.15	10	52 Type A	558.65	10
10.28	10	0.15	0.15	10	53 Type A	568.93	10
10.27	10	0.15	0.15	10	54 Type A	579.2	10
10.27	10	0.15	0.15	10	55 Type A	589.47	10
10.26	10	0.15	0.15	10	56 Type A	599.73	10
10.17	10	0.15	0.15	10	57 Type A	609.9	10
10.17	10	0.15	0.15	10	58 Type A	620.07	10
10.16	10	0.15	0.15	10	59 Type A	630.23	10
10.14	10	0.15	0.15	10	60 Type A	640.37	10
10.11	10	0.15	0.15	10	61 Type A	650.48	10

10.09	10	0.15	0.15	10	62 Type A	660.57	10
10.07	10	0.15	0.15	10	63 Type A	670.64	10
10.06	10	0.15	0.15	10	64 Type A	680.7	10
10.05	10	0.15	0.15	10	65 Type A	690.75	10
10	10	0.15	0.15	10	66 Type A	700.75	10
9.95	10	0.15	0.15	10	67 Type A	710.7	10
9.94	10	0.15	0.15	10	68 Type A	720.64	10
9.93	10	0.15	0.15	10	69 Type A	730.57	10
9.85	10	0.15	0.15	10	70 Type A	740.42	10
9.78	10	0.15	0.15	10	71 Type A	750.2	10
9.77	10	0.15	0.15	10	72 Type A	759.97	10
9.7	10	0.15	0.15	10	73 Type A	769.67	10
9.69	10	0.15	0.15	10	74 Type A	779.36	10
9.66	10	0.15	0.15	10	75 Type A	789.02	10
9.65	10	0.15	0.15	10	76 Type A	798.67	10
9.62	10	0.15	0.15	10	77 Type A	808.29	10
9.6	10	0.15	0.15	10	78 Type A	817.89	10
9.59	10	0.15	0.15	10	79 Type A	827.48	10
9.49	10	0.15	0.15	10	80 Type A	836.97	9
9.41	10	0.15	0.15	10	81 Type A	846.38	9
9.4	10	0.15	0.15	10	82 Type A	855.78	9
9.38	10	0.15	0.15	10	83 Type A	865.16	9
9.28	10	0.15	0.15	10	84 Type A	874.44	9
9.26	10	0.15	0.15	10	85 Type A	883.7	9
9.17	10	0.15	0.15	10	86 Type A	892.87	9
9.16	10	0.15	0.15	10	87 Type A	902.03	9
9.14	10	0.15	0.15	10	88 Type A	911.17	9
9.04	10	0.15	0.15	10	89 Type A	920.21	9
9.02	10	0.15	0.15	10	90 Type A	929.23	9
8.78	10	0.15	0.15	10	91 Type A	938.01	9
8.41	10	0.15	0.15	10	92 Type A	946.42	8
8.14	10	0.15	0.15	10	93 Type A	954.56	8
7.94	10	0.15	0.15	10	94 Type A	962.5	8
7.62	10	0.15	0.15	10	95 Type A	970.12	8
7.5	10	0.15	0.15	10	96 Type A	977.62	8
5.4	10	0.15	0.15	10	97 Type A	983.02	5
4.8	10	0.15	0.15	10	98 Type A	987.82	5
4.69	10	0.15	0.15	10	99 Type A	992.51	5
4.33	10	0.15	0.15	10	100 Type A	996.84	4
3	10	0.15	0.15	10	101 Type A	999.84	3
10.96	10	1.16	8.33	20	1 Type A	10.96	11
10.96	10	1.16	8.33	20	2 Type A	21.92	11
10.95	10	1.16	8.33	20	3 Type A	32.87	11
10.9	10	1.16	8.33	20	4 Type A	43.77	11
10.89	10	1.16	8.33	20	5 Type A	54.66	11
10.86	10	1.16	8.33	20	6 Type A	65.52	11
10.84	10	1.16	8.33	20	7 Type A	76.36	11
10.77	10	1.16	8.33	20	8 Type A	87.13	11
10.76	10	1.16	8.33	20	9 Type A	97.89	11
10.76	10	1.16	8.33	20	10 Type A	108.65	11
10.67	10	1.16	8.33	20	11 Type A	119.32	11
10.67	10	1.16	8.33	20	12 Type A	129.99	11
10.65	10	1.16	8.33	20	13 Type A	140.64	11
10.61	10	1.16	8.33	20	14 Type A	151.25	11
10.59	10	1.16	8.33	20	15 Type A	161.84	11
10.55	10	1.16	8.33	20	16 Type A	172.39	11
10.53	10	1.16	8.33	20	17 Type A	182.92	11
10.51	10	1.16	8.33	20	18 Type A	193.43	11
10.47	10	1.16	8.33	20	19 Type A	203.9	10
10.45	10	1.16	8.33	20	20 Type A	214.35	10
10.34	10	1.16	8.33	20	21 Type A	224.69	10
10.33	10	1.16	8.33	20	22 Type A	235.02	10
10.33	10	1.16	8.33	20	23 Type A	245.35	10
10.23	10	1.16	8.33	20	24 Type A	255.58	10
10.22	10	1.16	8.33	20	25 Type A	265.8	10
10.18	10	1.16	8.33	20	26 Type A	275.98	10
10.18	10	1.16	8.33	20	27 Type A	286.16	10
10.14	10	1.16	8.33	20	28 Type A	296.3	10
10.07	10	1.16	8.33	20	29 Type A	306.37	10
9.99	10	1.16	8.33	20	30 Type A	316.36	10
9.93	10	1.16	8.33	20	31 Type A	326.29	10
9.79	10	1.16	8.33	20	32 Type A	336.08	10
9.79	10	1.16	8.33	20	33 Type A	345.87	10
9.71	10	1.16	8.33	20	34 Type A	355.58	10
9.67	10	1.16	8.33	20	35 Type A	365.25	10
9.65	10	1.16	8.33	20	36 Type A	374.9	10
9.48	10	1.16	8.33	20	37 Type A	384.38	9
9.44	10	1.16	8.33	20	38 Type A	393.82	9
9.44	10	1.16	8.33	20	39 Type A	403.26	9
9.35	10	1.16	8.33	20	40 Type A	412.61	9
9.26	10	1.16	8.33	20	41 Type A	421.87	9
9.24	10	1.16	8.33	20	42 Type A	431.11	9
9.23	10	1.16	8.33	20	43 Type A	440.34	9
9.21	10	1.16	8.33	20	44 Type A	449.55	9
9.19	10	1.16	8.33	20	45 Type A	458.74	9
9.17	10	1.16	8.33	20	46 Type A	467.91	9
9.13	10	1.16	8.33	20	47 Type A	477.04	9

9.11	10	1.16	8.33	20	48 Type A	486.15	9
9.07	10	1.16	8.33	20	49 Type A	495.22	9
8.94	10	1.16	8.33	20	50 Type A	504.16	9
8.93	10	1.16	8.33	20	51 Type A	513.09	9
8.9	10	1.16	8.33	20	52 Type A	521.99	9
8.88	10	1.16	8.33	20	53 Type A	530.87	9
8.79	10	1.16	8.33	20	54 Type A	539.66	9
8.7	10	1.16	8.33	20	55 Type A	548.36	9
8.54	10	1.16	8.33	20	56 Type A	556.9	9
8.53	10	1.16	8.33	20	57 Type A	565.43	9
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8.02	10	1.16	8.33	20	59 Type A	581.51	8
7.99	10	1.16	8.33	20	60 Type A	589.5	8
7.9	10	1.16	8.33	20	61 Type A	597.4	8
7.88	10	1.16	8.33	20	62 Type A	605.28	8
7.75	10	1.16	8.33	20	63 Type A	613.03	8
7.58	10	1.16	8.33	20	64 Type A	620.61	8
7.56	10	1.16	8.33	20	65 Type A	628.17	8
7.53	10	1.16	8.33	20	66 Type A	635.7	8
7.49	10	1.16	8.33	20	67 Type A	643.19	7
7.45	10	1.16	8.33	20	68 Type A	650.64	7
7.39	10	1.16	8.33	20	69 Type A	658.03	7
7.38	10	1.16	8.33	20	70 Type A	665.41	7
7.33	10	1.16	8.33	20	71 Type A	672.74	7
7.29	10	1.16	8.33	20	72 Type A	680.03	7
7.24	10	1.16	8.33	20	73 Type A	687.27	7
7.2	10	1.16	8.33	20	74 Type A	694.47	7
7.15	10	1.16	8.33	20	75 Type A	701.62	7
6.94	10	1.16	8.33	20	76 Type A	708.56	7
6.93	10	1.16	8.33	20	77 Type A	715.49	7
6.9	10	1.16	8.33	20	78 Type A	722.39	7
6.88	10	1.16	8.33	20	79 Type A	729.27	7
6.79	10	1.16	8.33	20	80 Type A	736.06	7
6.7	10	1.16	8.33	20	81 Type A	742.76	7
6.53	10	1.16	8.33	20	82 Type A	749.29	7
6.53	10	1.16	8.33	20	83 Type A	755.82	7
6.5	10	1.16	8.33	20	84 Type A	762.32	7
6.48	10	1.16	8.33	20	85 Type A	768.8	6
6.46	10	1.16	8.33	20	86 Type A	775.26	6
6.34	10	1.16	8.33	20	87 Type A	781.6	6
6.27	10	1.16	8.33	20	88 Type A	787.87	6
6.25	10	1.16	8.33	20	89 Type A	794.12	6
6.2	10	1.16	8.33	20	90 Type A	800.32	6
6.12	10	1.16	8.33	20	91 Type A	806.44	6
6.06	10	1.16	8.33	20	92 Type A	812.5	6
6.03	10	1.16	8.33	20	93 Type A	818.53	6
5.97	10	1.16	8.33	20	94 Type A	824.5	6
5.93	10	1.16	8.33	20	95 Type A	830.43	6
5.81	10	1.16	8.33	20	96 Type A	836.24	6
5.78	10	1.16	8.33	20	97 Type A	842.02	6
5.78	10	1.16	8.33	20	98 Type A	847.8	6
5.74	10	1.16	8.33	20	99 Type A	853.54	6
5.72	10	1.16	8.33	20	100 Type A	859.26	6
5.71	10	1.16	8.33	20	101 Type A	864.97	6
5.7	10	1.16	8.33	20	102 Type A	870.67	6
5.69	10	1.16	8.33	20	103 Type A	876.36	6
5.56	10	1.16	8.33	20	104 Type A	881.92	6
5.5	10	1.16	8.33	20	105 Type A	887.42	6
5.44	10	1.16	8.33	20	106 Type A	892.86	5
5.38	10	1.16	8.33	20	107 Type A	898.24	5
5.32	10	1.16	8.33	20	108 Type A	903.56	5
5.31	10	1.16	8.33	20	109 Type A	908.87	5
5.24	10	1.16	8.33	20	110 Type A	914.11	5
5.16	10	1.16	8.33	20	111 Type A	919.27	5
5.15	10	1.16	8.33	20	112 Type A	924.42	5
5.11	10	1.16	8.33	20	113 Type A	929.53	5
5.1	10	1.16	8.33	20	114 Type A	934.63	5
5.07	10	1.16	8.33	20	115 Type A	939.7	5
5.06	10	1.16	8.33	20	116 Type A	944.76	5
5.02	10	1.16	8.33	20	117 Type A	949.78	5
4.97	10	1.16	8.33	20	118 Type A	954.75	5
4.89	10	1.16	8.33	20	119 Type A	959.64	5
4.85	10	1.16	8.33	20	120 Type A	964.49	5
4.84	10	1.16	8.33	20	121 Type A	969.33	5
4.74	10	1.16	8.33	20	122 Type A	974.07	5
4.73	10	1.16	8.33	20	123 Type A	978.8	5
4.62	10	1.16	8.33	20	124 Type A	983.42	5
4.62	10	1.16	8.33	20	125 Type A	988.04	5
4.61	10	1.16	8.33	20	126 Type A	992.65	5
4.56	10	1.16	8.33	20	127 Type A	997.21	5
4.54	10	1.16	8.33	20	128 Type A	1001.75	5
4.47	10	1.16	8.33	20	129 Type A	1006.22	4
4.46	10	1.16	8.33	20	130 Type A	1010.68	4
4.44	10	1.16	8.33	20	131 Type A	1015.12	4
4.36	10	1.16	8.33	20	132 Type A	1019.48	4
4.34	10	1.16	8.33	20	133 Type A	1023.82	4
4.31	10	1.16	8.33	20	134 Type A	1028.13	4

4.12	10	1.16	8.33	20	135 Type A	1032.25	4
4.11	10	1.16	8.33	20	136 Type A	1036.36	4
4.04	10	1.16	8.33	20	137 Type A	1040.4	4
4.01	10	1.16	8.33	20	138 Type A	1044.41	4
3.99	10	1.16	8.33	20	139 Type A	1048.4	4
3.69	10	1.16	8.33	20	140 Type A	1052.09	4
3.4	10	1.16	8.33	20	141 Type A	1055.49	3
10.87	10	3.94	6.78	30	1 Type A	10.87	11
10.58	10	3.94	6.78	30	2 Type A	21.45	11
10.55	10	3.94	6.78	30	3 Type A	32	11
10.43	10	3.94	6.78	30	4 Type A	42.43	10
10.31	10	3.94	6.78	30	5 Type A	52.74	10
10.26	10	3.94	6.78	30	6 Type A	63	10
10.25	10	3.94	6.78	30	7 Type A	73.25	10
10.15	10	3.94	6.78	30	8 Type A	83.4	10
10.1	10	3.94	6.78	30	9 Type A	93.5	10
10.1	10	3.94	6.78	30	10 Type A	103.6	10
10.07	10	3.94	6.78	30	11 Type A	113.67	10
10.01	10	3.94	6.78	30	12 Type A	123.68	10
9.92	10	3.94	6.78	30	13 Type A	133.6	10
9.81	10	3.94	6.78	30	14 Type A	143.41	10
9.48	10	3.94	6.78	30	15 Type A	152.89	9
9.47	10	3.94	6.78	30	16 Type A	162.36	9
9.42	10	3.94	6.78	30	17 Type A	171.78	9
9.34	10	3.94	6.78	30	18 Type A	181.12	9
9.33	10	3.94	6.78	30	19 Type A	190.45	9
9.14	10	3.94	6.78	30	20 Type A	199.59	9
8.79	10	3.94	6.78	30	21 Type A	208.38	9
8.76	10	3.94	6.78	30	22 Type A	217.14	9
8.74	10	3.94	6.78	30	23 Type A	225.88	9
8.65	10	3.94	6.78	30	24 Type A	234.53	9
8.6	10	3.94	6.78	30	25 Type A	243.13	9
8.57	10	3.94	6.78	30	26 Type A	251.7	9
8.43	10	3.94	6.78	30	27 Type A	260.13	8
8.32	10	3.94	6.78	30	28 Type A	268.45	8
8.29	10	3.94	6.78	30	29 Type A	276.74	8
8.22	10	3.94	6.78	30	30 Type A	284.96	8
7.9	10	3.94	6.78	30	31 Type A	292.86	8
7.89	10	3.94	6.78	30	32 Type A	300.75	8
7.88	10	3.94	6.78	30	33 Type A	308.63	8
7.83	10	3.94	6.78	30	34 Type A	316.46	8
7.78	10	3.94	6.78	30	35 Type A	324.24	8
7.68	10	3.94	6.78	30	36 Type A	331.92	8
7.66	10	3.94	6.78	30	37 Type A	339.58	8
7.59	10	3.94	6.78	30	38 Type A	347.17	8
7.57	10	3.94	6.78	30	39 Type A	354.74	8
7.32	10	3.94	6.78	30	40 Type A	362.06	7
7.28	10	3.94	6.78	30	41 Type A	369.34	7
7.14	10	3.94	6.78	30	42 Type A	376.48	7
7.12	10	3.94	6.78	30	43 Type A	383.6	7
7.11	10	3.94	6.78	30	44 Type A	390.71	7
7.07	10	3.94	6.78	30	45 Type A	397.78	7
7.02	10	3.94	6.78	30	46 Type A	404.8	7
6.89	10	3.94	6.78	30	47 Type A	411.69	7
6.86	10	3.94	6.78	30	48 Type A	418.55	7
6.81	10	3.94	6.78	30	49 Type A	425.36	7
6.75	10	3.94	6.78	30	50 Type A	432.11	7
6.69	10	3.94	6.78	30	51 Type A	438.8	7
6.6	10	3.94	6.78	30	52 Type A	445.4	7
6.59	10	3.94	6.78	30	53 Type A	451.99	7
6.56	10	3.94	6.78	30	54 Type A	458.55	7
6.5	10	3.94	6.78	30	55 Type A	465.05	7
6.5	10	3.94	6.78	30	56 Type A	471.55	7
6.45	10	3.94	6.78	30	57 Type A	478	6
6.42	10	3.94	6.78	30	58 Type A	484.42	6
6.37	10	3.94	6.78	30	59 Type A	490.79	6
6.3	10	3.94	6.78	30	60 Type A	497.09	6
6.19	10	3.94	6.78	30	61 Type A	503.28	6
6.18	10	3.94	6.78	30	62 Type A	509.46	6
6.17	10	3.94	6.78	30	63 Type A	515.63	6
6.12	10	3.94	6.78	30	64 Type A	521.75	6
6.11	10	3.94	6.78	30	65 Type A	527.86	6
6.08	10	3.94	6.78	30	66 Type A	533.94	6
5.97	10	3.94	6.78	30	67 Type A	539.91	6
5.97	10	3.94	6.78	30	68 Type A	545.88	6
5.95	10	3.94	6.78	30	69 Type A	551.83	6
5.9	10	3.94	6.78	30	70 Type A	557.73	6
5.85	10	3.94	6.78	30	71 Type A	563.58	6
5.8	10	3.94	6.78	30	72 Type A	569.38	6
5.8	10	3.94	6.78	30	73 Type A	575.18	6
5.79	10	3.94	6.78	30	74 Type A	580.97	6
5.72	10	3.94	6.78	30	75 Type A	586.69	6
5.71	10	3.94	6.78	30	76 Type A	592.4	6
5.67	10	3.94	6.78	30	77 Type A	598.07	6
5.58	10	3.94	6.78	30	78 Type A	603.65	6
5.57	10	3.94	6.78	30	79 Type A	609.22	6
5.51	10	3.94	6.78	30	80 Type A	614.73	6

5.49	10	3.94	6.78	30	81 Type A	620.22	5
5.47	10	3.94	6.78	30	82 Type A	625.69	5
5.45	10	3.94	6.78	30	83 Type A	631.14	5
5.45	10	3.94	6.78	30	84 Type A	636.59	5
5.44	10	3.94	6.78	30	85 Type A	642.03	5
5.43	10	3.94	6.78	30	86 Type A	647.46	5
5.39	10	3.94	6.78	30	87 Type A	652.85	5
5.39	10	3.94	6.78	30	88 Type A	658.24	5
5.38	10	3.94	6.78	30	89 Type A	663.62	5
5.37	10	3.94	6.78	30	90 Type A	668.99	5
5.31	10	3.94	6.78	30	91 Type A	674.3	5
5.27	10	3.94	6.78	30	92 Type A	679.57	5
5.27	10	3.94	6.78	30	93 Type A	684.84	5
5.22	10	3.94	6.78	30	94 Type A	690.06	5
5.17	10	3.94	6.78	30	95 Type A	695.23	5
5.13	10	3.94	6.78	30	96 Type A	700.36	5
5.11	10	3.94	6.78	30	97 Type A	705.47	5
5.08	10	3.94	6.78	30	98 Type A	710.55	5
5.08	10	3.94	6.78	30	99 Type A	715.63	5
4.96	10	3.94	6.78	30	100 Type A	720.59	5
4.95	10	3.94	6.78	30	101 Type A	725.54	5
4.94	10	3.94	6.78	30	102 Type A	730.48	5
4.94	10	3.94	6.78	30	103 Type A	735.42	5
4.94	10	3.94	6.78	30	104 Type A	740.36	5
4.88	10	3.94	6.78	30	105 Type A	745.24	5
4.87	10	3.94	6.78	30	106 Type A	750.11	5
4.82	10	3.94	6.78	30	107 Type A	754.93	5
4.82	10	3.94	6.78	30	108 Type A	759.75	5
4.71	10	3.94	6.78	30	109 Type A	764.46	5
4.71	10	3.94	6.78	30	110 Type A	769.17	5
4.7	10	3.94	6.78	30	111 Type A	773.87	5
4.64	10	3.94	6.78	30	112 Type A	778.51	5
4.61	10	3.94	6.78	30	113 Type A	783.12	5
4.55	10	3.94	6.78	30	114 Type A	787.67	5
4.55	10	3.94	6.78	30	115 Type A	792.22	5
4.53	10	3.94	6.78	30	116 Type A	796.75	5
4.52	10	3.94	6.78	30	117 Type A	801.27	5
4.49	10	3.94	6.78	30	118 Type A	805.76	4
4.44	10	3.94	6.78	30	119 Type A	810.2	4
4.39	10	3.94	6.78	30	120 Type A	814.59	4
4.38	10	3.94	6.78	30	121 Type A	818.97	4
4.28	10	3.94	6.78	30	122 Type A	823.25	4
4.28	10	3.94	6.78	30	123 Type A	827.53	4
4.25	10	3.94	6.78	30	124 Type A	831.78	4
4.25	10	3.94	6.78	30	125 Type A	836.03	4
4.23	10	3.94	6.78	30	126 Type A	840.26	4
4.22	10	3.94	6.78	30	127 Type A	844.48	4
4.15	10	3.94	6.78	30	128 Type A	848.63	4
4.13	10	3.94	6.78	30	129 Type A	852.76	4
4.11	10	3.94	6.78	30	130 Type A	856.87	4
4.03	10	3.94	6.78	30	131 Type A	860.9	4
4.03	10	3.94	6.78	30	132 Type A	864.93	4
4	10	3.94	6.78	30	133 Type A	868.93	4
3.87	10	3.94	6.78	30	134 Type A	872.8	4
3.81	10	3.94	6.78	30	135 Type A	876.61	4
3.76	10	3.94	6.78	30	136 Type A	880.37	4
3.72	10	3.94	6.78	30	137 Type A	884.09	4
3.67	10	3.94	6.78	30	138 Type A	887.76	4
3.62	10	3.94	6.78	30	139 Type A	891.38	4
3.57	10	3.94	6.78	30	140 Type A	894.95	4
3.52	10	3.94	6.78	30	141 Type A	898.47	4
3.49	10	3.94	6.78	30	142 Type A	901.96	3
3.48	10	3.94	6.78	30	143 Type A	905.44	3
3.46	10	3.94	6.78	30	144 Type A	908.9	3
3.45	10	3.94	6.78	30	145 Type A	912.35	3
3.42	10	3.94	6.78	30	146 Type A	915.77	3
3.41	10	3.94	6.78	30	147 Type A	919.18	3
3.39	10	3.94	6.78	30	148 Type A	922.57	3
3.35	10	3.94	6.78	30	149 Type A	925.92	3
3.3	10	3.94	6.78	30	150 Type A	929.22	3
3.29	10	3.94	6.78	30	151 Type A	932.51	3
3.25	10	3.94	6.78	30	152 Type A	935.76	3
3.24	10	3.94	6.78	30	153 Type A	939	3
3.22	10	3.94	6.78	30	154 Type A	942.22	3
3.18	10	3.94	6.78	30	155 Type A	945.4	3
3.11	10	3.94	6.78	30	156 Type A	948.51	3
3.08	10	3.94	6.78	30	157 Type A	951.59	3
3.01	10	3.94	6.78	30	158 Type A	954.6	3
2.96	10	3.94	6.78	30	159 Type A	957.56	3
2.96	10	3.94	6.78	30	160 Type A	960.52	3
2.82	10	3.94	6.78	30	161 Type A	963.34	3
2.28	10	3.94	6.78	30	162 Type A	965.62	2
2.24	10	3.94	6.78	30	163 Type A	967.86	2
1.94	10	3.94	6.78	30	164 Type A	969.8	2
21	20	0.62	0.95	10	1 Type B	21	21
21	20	0.62	0.95	10	2 Type B	42	21
21	20	0.62	0.95	10	3 Type B	63	21

20.96	20	0.62	0.95	10	4 Type B	83.96	21
20.94	20	0.62	0.95	10	5 Type B	104.9	21
20.92	20	0.62	0.95	10	6 Type B	125.82	21
20.89	20	0.62	0.95	10	7 Type B	146.71	21
20.87	20	0.62	0.95	10	8 Type B	167.58	21
20.85	20	0.62	0.95	10	9 Type B	188.43	21
20.84	20	0.62	0.95	10	10 Type B	209.27	21
20.8	20	0.62	0.95	10	11 Type B	230.07	21
20.79	20	0.62	0.95	10	12 Type B	250.86	21
20.79	20	0.62	0.95	10	13 Type B	271.65	21
20.77	20	0.62	0.95	10	14 Type B	292.42	21
20.75	20	0.62	0.95	10	15 Type B	313.17	21
20.69	20	0.62	0.95	10	16 Type B	333.86	21
20.69	20	0.62	0.95	10	17 Type B	354.55	21
20.68	20	0.62	0.95	10	18 Type B	375.23	21
20.67	20	0.62	0.95	10	19 Type B	395.9	21
20.62	20	0.62	0.95	10	20 Type B	416.52	21
20.59	20	0.62	0.95	10	21 Type B	437.11	21
20.57	20	0.62	0.95	10	22 Type B	457.68	21
20.47	20	0.62	0.95	10	23 Type B	478.15	20
20.47	20	0.62	0.95	10	24 Type B	498.62	20
20.39	20	0.62	0.95	10	25 Type B	519.01	20
20.39	20	0.62	0.95	10	26 Type B	539.4	20
20.38	20	0.62	0.95	10	27 Type B	559.78	20
20.35	20	0.62	0.95	10	28 Type B	580.13	20
20.34	20	0.62	0.95	10	29 Type B	600.47	20
20.34	20	0.62	0.95	10	30 Type B	620.81	20
20.3	20	0.62	0.95	10	31 Type B	641.11	20
20.3	20	0.62	0.95	10	32 Type B	661.41	20
20.28	20	0.62	0.95	10	33 Type B	681.69	20
20.22	20	0.62	0.95	10	34 Type B	701.91	20
20.16	20	0.62	0.95	10	35 Type B	722.07	20
20.15	20	0.62	0.95	10	36 Type B	742.22	20
20.13	20	0.62	0.95	10	37 Type B	762.35	20
20.09	20	0.62	0.95	10	38 Type B	782.44	20
20.09	20	0.62	0.95	10	39 Type B	802.53	20
20.08	20	0.62	0.95	10	40 Type B	822.61	20
20.06	20	0.62	0.95	10	41 Type B	842.67	20
20.04	20	0.62	0.95	10	42 Type B	862.71	20
20.02	20	0.62	0.95	10	43 Type B	882.73	20
20	20	0.62	0.95	10	44 Type B	902.73	20
19.98	20	0.62	0.95	10	45 Type B	922.71	20
19.97	20	0.62	0.95	10	46 Type B	942.68	20
19.94	20	0.62	0.95	10	47 Type B	962.62	20
19.87	20	0.62	0.95	10	48 Type B	982.49	20
19.79	20	0.62	0.95	10	49 Type B	1002.28	20
19.68	20	0.62	0.95	10	50 Type B	1021.96	20
19.63	20	0.62	0.95	10	51 Type B	1041.59	20
19.62	20	0.62	0.95	10	52 Type B	1061.21	20
19.61	20	0.62	0.95	10	53 Type B	1080.82	20
19.59	20	0.62	0.95	10	54 Type B	1100.41	20
19.59	20	0.62	0.95	10	55 Type B	1120	20
19.46	20	0.62	0.95	10	56 Type B	1139.46	19
19.43	20	0.62	0.95	10	57 Type B	1158.89	19
19.42	20	0.62	0.95	10	58 Type B	1178.31	19
19.38	20	0.62	0.95	10	59 Type B	1197.69	19
19.37	20	0.62	0.95	10	60 Type B	1217.06	19
19.37	20	0.62	0.95	10	61 Type B	1236.43	19
19.37	20	0.62	0.95	10	62 Type B	1255.8	19
19.34	20	0.62	0.95	10	63 Type B	1275.14	19
19.34	20	0.62	0.95	10	64 Type B	1294.48	19
19.3	20	0.62	0.95	10	65 Type B	1313.78	19
19.23	20	0.62	0.95	10	66 Type B	1333.01	19
19.22	20	0.62	0.95	10	67 Type B	1352.23	19
19.21	20	0.62	0.95	10	68 Type B	1371.44	19
19.21	20	0.62	0.95	10	69 Type B	1390.65	19
19.18	20	0.62	0.95	10	70 Type B	1409.83	19
18.98	20	0.62	0.95	10	71 Type B	1428.81	19
18.94	20	0.62	0.95	10	72 Type B	1447.75	19
18.92	20	0.62	0.95	10	73 Type B	1466.67	19
18.89	20	0.62	0.95	10	74 Type B	1485.56	19
18.82	20	0.62	0.95	10	75 Type B	1504.38	19
18.76	20	0.62	0.95	10	76 Type B	1523.14	19
18.67	20	0.62	0.95	10	77 Type B	1541.81	19
18.36	20	0.62	0.95	10	78 Type B	1560.17	18
18.32	20	0.62	0.95	10	79 Type B	1578.49	18
18.07	20	0.62	0.95	10	80 Type B	1596.56	18
17.88	20	0.62	0.95	10	81 Type B	1614.44	18
17.56	20	0.62	0.95	10	82 Type B	1632	18
17.39	20	0.62	0.95	10	83 Type B	1649.39	17
16.99	20	0.62	0.95	10	84 Type B	1666.38	17
14.89	20	0.62	0.95	10	85 Type B	1681.27	15
14.59	20	0.62	0.95	10	86 Type B	1695.86	15
14.47	20	0.62	0.95	10	87 Type B	1710.33	14
14.4	20	0.62	0.95	10	88 Type B	1724.73	14
14.18	20	0.62	0.95	10	89 Type B	1738.91	14
13.65	20	0.62	0.95	10	90 Type B	1752.56	14

13.31	20	0.62	0.95	10	91 Type B	1765.87	13
13.05	20	0.62	0.95	10	92 Type B	1778.92	13
12.86	20	0.62	0.95	10	93 Type B	1791.78	13
12.82	20	0.62	0.95	10	94 Type B	1804.6	13
12.7	20	0.62	0.95	10	95 Type B	1817.3	13
12.43	20	0.62	0.95	10	96 Type B	1829.73	12
12.34	20	0.62	0.95	10	97 Type B	1842.07	12
11.11	20	0.62	0.95	10	98 Type B	1853.18	11
10.89	20	0.62	0.95	10	99 Type B	1864.07	11
10.7	20	0.62	0.95	10	100 Type B	1874.77	11
10.22	20	0.62	0.95	10	101 Type B	1884.99	10
10.11	20	0.62	0.95	10	102 Type B	1895.1	10
10.06	20	0.62	0.95	10	103 Type B	1905.16	10
10	20	0.62	0.95	10	104 Type B	1915.16	10
9.94	20	0.62	0.95	10	105 Type B	1925.1	10
9.56	20	0.62	0.95	10	106 Type B	1934.66	10
9.34	20	0.62	0.95	10	107 Type B	1944	9
9.31	20	0.62	0.95	10	108 Type B	1953.31	9
9.22	20	0.62	0.95	10	109 Type B	1962.53	9
9.1	20	0.62	0.95	10	110 Type B	1971.63	9
8.12	20	0.62	0.95	10	111 Type B	1979.75	8
8.01	20	0.62	0.95	10	112 Type B	1987.76	8
7.21	20	0.62	0.95	10	113 Type B	1994.97	7
5.87	20	0.62	0.95	10	114 Type B	2000.84	6
5.03	20	0.62	0.95	10	115 Type B	2005.87	5
4.16	20	0.62	0.95	10	116 Type B	2010.03	4
2.59	20	0.62	0.95	10	117 Type B	2012.62	3
20.92	20	5.27	11.95	20	1 Type B	20.92	21
20.89	20	5.27	11.95	20	2 Type B	41.81	21
20.48	20	5.27	11.95	20	3 Type B	62.29	20
20.39	20	5.27	11.95	20	4 Type B	82.68	20
20.36	20	5.27	11.95	20	5 Type B	103.04	20
20.26	20	5.27	11.95	20	6 Type B	123.3	20
20.12	20	5.27	11.95	20	7 Type B	143.42	20
20.1	20	5.27	11.95	20	8 Type B	163.52	20
19.9	20	5.27	11.95	20	9 Type B	183.42	20
19.82	20	5.27	11.95	20	10 Type B	203.24	20
19.73	20	5.27	11.95	20	11 Type B	222.97	20
19.73	20	5.27	11.95	20	12 Type B	242.7	20
19.63	20	5.27	11.95	20	13 Type B	262.33	20
19.59	20	5.27	11.95	20	14 Type B	281.92	20
19.56	20	5.27	11.95	20	15 Type B	301.48	20
19.53	20	5.27	11.95	20	16 Type B	321.01	20
19.19	20	5.27	11.95	20	17 Type B	340.2	19
19.01	20	5.27	11.95	20	18 Type B	359.21	19
18.74	20	5.27	11.95	20	19 Type B	377.95	19
18.71	20	5.27	11.95	20	20 Type B	396.66	19
18.59	20	5.27	11.95	20	21 Type B	415.25	19
18.39	20	5.27	11.95	20	22 Type B	433.64	18
18.31	20	5.27	11.95	20	23 Type B	451.95	18
18.28	20	5.27	11.95	20	24 Type B	470.23	18
18.26	20	5.27	11.95	20	25 Type B	488.49	18
18.25	20	5.27	11.95	20	26 Type B	506.74	18
18.19	20	5.27	11.95	20	27 Type B	524.93	18
17.92	20	5.27	11.95	20	28 Type B	542.85	18
17.57	20	5.27	11.95	20	29 Type B	560.42	18
17.26	20	5.27	11.95	20	30 Type B	577.68	17
17.12	20	5.27	11.95	20	31 Type B	594.8	17
17.11	20	5.27	11.95	20	32 Type B	611.91	17
16.93	20	5.27	11.95	20	33 Type B	628.84	17
16.82	20	5.27	11.95	20	34 Type B	645.66	17
16.71	20	5.27	11.95	20	35 Type B	662.37	17
16.52	20	5.27	11.95	20	36 Type B	678.89	17
16.43	20	5.27	11.95	20	37 Type B	695.32	16
16.3	20	5.27	11.95	20	38 Type B	711.62	16
16.04	20	5.27	11.95	20	39 Type B	727.66	16
15.92	20	5.27	11.95	20	40 Type B	743.58	16
15.32	20	5.27	11.95	20	41 Type B	758.9	15
15	20	5.27	11.95	20	42 Type B	773.9	15
14.93	20	5.27	11.95	20	43 Type B	788.83	15
14.86	20	5.27	11.95	20	44 Type B	803.69	15
14.66	20	5.27	11.95	20	45 Type B	818.35	15
14.51	20	5.27	11.95	20	46 Type B	832.86	15
14.46	20	5.27	11.95	20	47 Type B	847.32	14
14.41	20	5.27	11.95	20	48 Type B	861.73	14
14.24	20	5.27	11.95	20	49 Type B	875.97	14
14.22	20	5.27	11.95	20	50 Type B	890.19	14
14.1	20	5.27	11.95	20	51 Type B	904.29	14
14.08	20	5.27	11.95	20	52 Type B	918.37	14
13.86	20	5.27	11.95	20	53 Type B	932.23	14
13.85	20	5.27	11.95	20	54 Type B	946.08	14
13.85	20	5.27	11.95	20	55 Type B	959.93	14
13.76	20	5.27	11.95	20	56 Type B	973.69	14
13.73	20	5.27	11.95	20	57 Type B	987.42	14
13.58	20	5.27	11.95	20	58 Type B	1001	14
13.47	20	5.27	11.95	20	59 Type B	1014.47	13
13.45	20	5.27	11.95	20	60 Type B	1027.92	13

13.41	20	5.27	11.95	20	61 Type B	1041.33	13
13.4	20	5.27	11.95	20	62 Type B	1054.73	13
13.3	20	5.27	11.95	20	63 Type B	1068.03	13
13.29	20	5.27	11.95	20	64 Type B	1081.32	13
13.21	20	5.27	11.95	20	65 Type B	1094.53	13
13.17	20	5.27	11.95	20	66 Type B	1107.7	13
13.08	20	5.27	11.95	20	67 Type B	1120.78	13
12.91	20	5.27	11.95	20	68 Type B	1133.69	13
12.88	20	5.27	11.95	20	69 Type B	1146.57	13
12.82	20	5.27	11.95	20	70 Type B	1159.39	13
12.77	20	5.27	11.95	20	71 Type B	1172.16	13
12.73	20	5.27	11.95	20	72 Type B	1184.89	13
12.69	20	5.27	11.95	20	73 Type B	1197.58	13
12.52	20	5.27	11.95	20	74 Type B	1210.1	13
12.51	20	5.27	11.95	20	75 Type B	1222.61	13
12.49	20	5.27	11.95	20	76 Type B	1235.1	12
12.45	20	5.27	11.95	20	77 Type B	1247.55	12
12.41	20	5.27	11.95	20	78 Type B	1259.96	12
12.37	20	5.27	11.95	20	79 Type B	1272.33	12
12.24	20	5.27	11.95	20	80 Type B	1284.57	12
12.19	20	5.27	11.95	20	81 Type B	1296.76	12
12.19	20	5.27	11.95	20	82 Type B	1308.95	12
12.15	20	5.27	11.95	20	83 Type B	1321.1	12
12.11	20	5.27	11.95	20	84 Type B	1333.21	12
12.05	20	5.27	11.95	20	85 Type B	1345.26	12
12.02	20	5.27	11.95	20	86 Type B	1357.28	12
11.97	20	5.27	11.95	20	87 Type B	1369.25	12
11.81	20	5.27	11.95	20	88 Type B	1381.06	12
11.7	20	5.27	11.95	20	89 Type B	1392.76	12
11.54	20	5.27	11.95	20	90 Type B	1404.3	12
11.37	20	5.27	11.95	20	91 Type B	1415.67	11
11.25	20	5.27	11.95	20	92 Type B	1426.92	11
11.14	20	5.27	11.95	20	93 Type B	1438.06	11
11.11	20	5.27	11.95	20	94 Type B	1449.17	11
11.1	20	5.27	11.95	20	95 Type B	1460.27	11
11.06	20	5.27	11.95	20	96 Type B	1471.33	11
11.02	20	5.27	11.95	20	97 Type B	1482.35	11
10.97	20	5.27	11.95	20	98 Type B	1493.32	11
10.93	20	5.27	11.95	20	99 Type B	1504.25	11
10.62	20	5.27	11.95	20	100 Type B	1514.87	11
10.59	20	5.27	11.95	20	101 Type B	1525.46	11
10.5	20	5.27	11.95	20	102 Type B	1535.96	11
10.46	20	5.27	11.95	20	103 Type B	1546.42	10
10.45	20	5.27	11.95	20	104 Type B	1556.87	10
10.26	20	5.27	11.95	20	105 Type B	1567.13	10
10.22	20	5.27	11.95	20	106 Type B	1577.35	10
9.96	20	5.27	11.95	20	107 Type B	1587.31	10
9.84	20	5.27	11.95	20	108 Type B	1597.15	10
9.78	20	5.27	11.95	20	109 Type B	1606.93	10
9.69	20	5.27	11.95	20	110 Type B	1616.62	10
9.67	20	5.27	11.95	20	111 Type B	1626.29	10
9.66	20	5.27	11.95	20	112 Type B	1635.95	10
9.62	20	5.27	11.95	20	113 Type B	1645.57	10
9.59	20	5.27	11.95	20	114 Type B	1655.16	10
9.55	20	5.27	11.95	20	115 Type B	1664.71	10
9.49	20	5.27	11.95	20	116 Type B	1674.2	9
9.45	20	5.27	11.95	20	117 Type B	1683.65	9
9.44	20	5.27	11.95	20	118 Type B	1693.09	9
9.43	20	5.27	11.95	20	119 Type B	1702.52	9
9.41	20	5.27	11.95	20	120 Type B	1711.93	9
9.35	20	5.27	11.95	20	121 Type B	1721.28	9
9.33	20	5.27	11.95	20	122 Type B	1730.61	9
9.3	20	5.27	11.95	20	123 Type B	1739.91	9
9.23	20	5.27	11.95	20	124 Type B	1749.14	9
9.22	20	5.27	11.95	20	125 Type B	1758.36	9
9.01	20	5.27	11.95	20	126 Type B	1767.37	9
9	20	5.27	11.95	20	127 Type B	1776.37	9
8.94	20	5.27	11.95	20	128 Type B	1785.31	9
8.91	20	5.27	11.95	20	129 Type B	1794.22	9
8.87	20	5.27	11.95	20	130 Type B	1803.09	9
8.86	20	5.27	11.95	20	131 Type B	1811.95	9
8.81	20	5.27	11.95	20	132 Type B	1820.76	9
8.76	20	5.27	11.95	20	133 Type B	1829.52	9
8.61	20	5.27	11.95	20	134 Type B	1838.13	9
8.61	20	5.27	11.95	20	135 Type B	1846.74	9
8.6	20	5.27	11.95	20	136 Type B	1855.34	9
8.58	20	5.27	11.95	20	137 Type B	1863.92	9
8.54	20	5.27	11.95	20	138 Type B	1872.46	9
8.46	20	5.27	11.95	20	139 Type B	1880.92	8
8.44	20	5.27	11.95	20	140 Type B	1889.36	8
8.39	20	5.27	11.95	20	141 Type B	1897.75	8
8.36	20	5.27	11.95	20	142 Type B	1906.11	8
8.35	20	5.27	11.95	20	143 Type B	1914.46	8
8.3	20	5.27	11.95	20	144 Type B	1922.76	8
8.28	20	5.27	11.95	20	145 Type B	1931.04	8
8.1	20	5.27	11.95	20	146 Type B	1939.14	8
7.99	20	5.27	11.95	20	147 Type B	1947.13	8

7.98	20	5.27	11.95	20	148 Type B	1955.11	8
7.97	20	5.27	11.95	20	149 Type B	1963.08	8
7.95	20	5.27	11.95	20	150 Type B	1971.03	8
7.89	20	5.27	11.95	20	151 Type B	1978.92	8
7.88	20	5.27	11.95	20	152 Type B	1986.8	8
7.87	20	5.27	11.95	20	153 Type B	1994.67	8
7.83	20	5.27	11.95	20	154 Type B	2002.5	8
7.81	20	5.27	11.95	20	155 Type B	2010.31	8
7.79	20	5.27	11.95	20	156 Type B	2018.1	8
7.76	20	5.27	11.95	20	157 Type B	2025.86	8
7.75	20	5.27	11.95	20	158 Type B	2033.61	8
7.73	20	5.27	11.95	20	159 Type B	2041.34	8
7.69	20	5.27	11.95	20	160 Type B	2049.03	8
7.57	20	5.27	11.95	20	161 Type B	2056.6	8
7.39	20	5.27	11.95	20	162 Type B	2063.99	7
7.39	20	5.27	11.95	20	163 Type B	2071.38	7
7.39	20	5.27	11.95	20	164 Type B	2078.77	7
7.37	20	5.27	11.95	20	165 Type B	2086.14	7
7.32	20	5.27	11.95	20	166 Type B	2093.46	7
7.28	20	5.27	11.95	20	167 Type B	2100.74	7
7.2	20	5.27	11.95	20	168 Type B	2107.94	7
7.13	20	5.27	11.95	20	169 Type B	2115.07	7
7.08	20	5.27	11.95	20	170 Type B	2122.15	7
7.07	20	5.27	11.95	20	171 Type B	2129.22	7
7.06	20	5.27	11.95	20	172 Type B	2136.28	7
6.96	20	5.27	11.95	20	173 Type B	2143.24	7
6.92	20	5.27	11.95	20	174 Type B	2150.16	7
6.91	20	5.27	11.95	20	175 Type B	2157.07	7
6.71	20	5.27	11.95	20	176 Type B	2163.78	7
6.65	20	5.27	11.95	20	177 Type B	2170.43	7
6.63	20	5.27	11.95	20	178 Type B	2177.06	7
6.6	20	5.27	11.95	20	179 Type B	2183.66	7
6.57	20	5.27	11.95	20	180 Type B	2190.23	7
6.46	20	5.27	11.95	20	181 Type B	2196.69	6
6.42	20	5.27	11.95	20	182 Type B	2203.11	6
6.41	20	5.27	11.95	20	183 Type B	2209.52	6
6.34	20	5.27	11.95	20	184 Type B	2215.86	6
6.29	20	5.27	11.95	20	185 Type B	2222.15	6
6.26	20	5.27	11.95	20	186 Type B	2228.41	6
6.14	20	5.27	11.95	20	187 Type B	2234.55	6
6.08	20	5.27	11.95	20	188 Type B	2240.63	6
6.05	20	5.27	11.95	20	189 Type B	2246.68	6
6.01	20	5.27	11.95	20	190 Type B	2252.69	6
5.88	20	5.27	11.95	20	191 Type B	2258.57	6
5.88	20	5.27	11.95	20	192 Type B	2264.45	6
5.73	20	5.27	11.95	20	193 Type B	2270.18	6
5.69	20	5.27	11.95	20	194 Type B	2275.87	6
5.64	20	5.27	11.95	20	195 Type B	2281.51	6
5.61	20	5.27	11.95	20	196 Type B	2287.12	6
5.56	20	5.27	11.95	20	197 Type B	2292.68	6
5.53	20	5.27	11.95	20	198 Type B	2298.21	6
5.51	20	5.27	11.95	20	199 Type B	2303.72	6
5.49	20	5.27	11.95	20	200 Type B	2309.21	5
5.47	20	5.27	11.95	20	201 Type B	2314.68	5
5.39	20	5.27	11.95	20	202 Type B	2320.07	5
5.39	20	5.27	11.95	20	203 Type B	2325.46	5
5.3	20	5.27	11.95	20	204 Type B	2330.76	5
5.2	20	5.27	11.95	20	205 Type B	2335.96	5
4.9	20	5.27	11.95	20	206 Type B	2340.86	5
4.75	20	5.27	11.95	20	207 Type B	2345.61	5
4.73	20	5.27	11.95	20	208 Type B	2350.34	5
4.56	20	5.27	11.95	20	209 Type B	2354.9	5
4.54	20	5.27	11.95	20	210 Type B	2359.44	5
4.3	20	5.27	11.95	20	211 Type B	2363.74	4
4.15	20	5.27	11.95	20	212 Type B	2367.89	4
4.14	20	5.27	11.95	20	213 Type B	2372.03	4
3.81	20	5.27	11.95	20	214 Type B	2375.84	4
3.71	20	5.27	11.95	20	215 Type B	2379.55	4
3.67	20	5.27	11.95	20	216 Type B	2383.22	4
3.6	20	5.27	11.95	20	217 Type B	2386.82	4
3.54	20	5.27	11.95	20	218 Type B	2390.36	4
3.16	20	5.27	11.95	20	219 Type B	2393.52	3
18.8	20	21.5	41.59	30	1 Type B	18.8	19
18.74	20	21.5	41.59	30	2 Type B	37.54	19
18.5	20	21.5	41.59	30	3 Type B	56.04	19
17.72	20	21.5	41.59	30	4 Type B	73.76	18
16.62	20	21.5	41.59	30	5 Type B	90.38	17
15.01	20	21.5	41.59	30	6 Type B	105.39	15
15	20	21.5	41.59	30	7 Type B	120.39	15
14.93	20	21.5	41.59	30	8 Type B	135.32	15
14.53	20	21.5	41.59	30	9 Type B	149.85	15
14.23	20	21.5	41.59	30	10 Type B	164.08	14
14.12	20	21.5	41.59	30	11 Type B	178.2	14
14.03	20	21.5	41.59	30	12 Type B	192.23	14
13.93	20	21.5	41.59	30	13 Type B	206.16	14
13.68	20	21.5	41.59	30	14 Type B	219.84	14
13.66	20	21.5	41.59	30	15 Type B	233.5	14

13.41	20	21.5	41.59	30	16 Type B	246.91	13
13.33	20	21.5	41.59	30	17 Type B	260.24	13
13.25	20	21.5	41.59	30	18 Type B	273.49	13
13.13	20	21.5	41.59	30	19 Type B	286.62	13
12.86	20	21.5	41.59	30	20 Type B	299.48	13
12.83	20	21.5	41.59	30	21 Type B	312.31	13
12.83	20	21.5	41.59	30	22 Type B	325.14	13
12.74	20	21.5	41.59	30	23 Type B	337.88	13
12.34	20	21.5	41.59	30	24 Type B	350.22	12
12.11	20	21.5	41.59	30	25 Type B	362.33	12
12.07	20	21.5	41.59	30	26 Type B	374.4	12
12.07	20	21.5	41.59	30	27 Type B	386.47	12
11.96	20	21.5	41.59	30	28 Type B	398.43	12
11.95	20	21.5	41.59	30	29 Type B	410.38	12
11.84	20	21.5	41.59	30	30 Type B	422.22	12
11.83	20	21.5	41.59	30	31 Type B	434.05	12
11.59	20	21.5	41.59	30	32 Type B	445.64	12
11.57	20	21.5	41.59	30	33 Type B	457.21	12
11.54	20	21.5	41.59	30	34 Type B	468.75	12
11.5	20	21.5	41.59	30	35 Type B	480.25	12
11.5	20	21.5	41.59	30	36 Type B	491.75	12
11.41	20	21.5	41.59	30	37 Type B	503.16	11
11.33	20	21.5	41.59	30	38 Type B	514.49	11
11.33	20	21.5	41.59	30	39 Type B	525.82	11
11.29	20	21.5	41.59	30	40 Type B	537.11	11
11.14	20	21.5	41.59	30	41 Type B	548.25	11
11.14	20	21.5	41.59	30	42 Type B	559.39	11
10.98	20	21.5	41.59	30	43 Type B	570.37	11
10.93	20	21.5	41.59	30	44 Type B	581.3	11
10.87	20	21.5	41.59	30	45 Type B	592.17	11
10.79	20	21.5	41.59	30	46 Type B	602.96	11
10.79	20	21.5	41.59	30	47 Type B	613.75	11
10.76	20	21.5	41.59	30	48 Type B	624.51	11
10.58	20	21.5	41.59	30	49 Type B	635.09	11
10.45	20	21.5	41.59	30	50 Type B	645.54	10
10.34	20	21.5	41.59	30	51 Type B	655.88	10
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10.29	20	21.5	41.59	30	54 Type B	686.8	10
10.25	20	21.5	41.59	30	55 Type B	697.05	10
10.23	20	21.5	41.59	30	56 Type B	707.28	10
10.22	20	21.5	41.59	30	57 Type B	717.5	10
10.19	20	21.5	41.59	30	58 Type B	727.69	10
10.18	20	21.5	41.59	30	59 Type B	737.87	10
10.11	20	21.5	41.59	30	60 Type B	747.98	10
10.02	20	21.5	41.59	30	61 Type B	758	10
10	20	21.5	41.59	30	62 Type B	768	10
9.94	20	21.5	41.59	30	63 Type B	777.94	10
9.94	20	21.5	41.59	30	64 Type B	787.88	10
9.82	20	21.5	41.59	30	65 Type B	797.7	10
9.79	20	21.5	41.59	30	66 Type B	807.49	10
9.79	20	21.5	41.59	30	67 Type B	817.28	10
9.78	20	21.5	41.59	30	68 Type B	827.06	10
9.77	20	21.5	41.59	30	69 Type B	836.83	10
9.73	20	21.5	41.59	30	70 Type B	846.56	10
9.63	20	21.5	41.59	30	71 Type B	856.19	10
9.61	20	21.5	41.59	30	72 Type B	865.8	10
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9.55	20	21.5	41.59	30	74 Type B	884.95	10
9.55	20	21.5	41.59	30	75 Type B	894.5	10
9.51	20	21.5	41.59	30	76 Type B	904.01	10
9.49	20	21.5	41.59	30	77 Type B	913.5	9
9.49	20	21.5	41.59	30	78 Type B	922.99	9
9.49	20	21.5	41.59	30	79 Type B	932.48	9
9.46	20	21.5	41.59	30	80 Type B	941.94	9
9.34	20	21.5	41.59	30	81 Type B	951.28	9
9.3	20	21.5	41.59	30	82 Type B	960.58	9
9.27	20	21.5	41.59	30	83 Type B	969.85	9
9.27	20	21.5	41.59	30	84 Type B	979.12	9
9.24	20	21.5	41.59	30	85 Type B	988.36	9
9.18	20	21.5	41.59	30	86 Type B	997.54	9
9.17	20	21.5	41.59	30	87 Type B	1006.71	9
9.16	20	21.5	41.59	30	88 Type B	1015.87	9
9.15	20	21.5	41.59	30	89 Type B	1025.02	9
9.14	20	21.5	41.59	30	90 Type B	1034.16	9
9.14	20	21.5	41.59	30	91 Type B	1043.3	9
9.13	20	21.5	41.59	30	92 Type B	1052.43	9
9.11	20	21.5	41.59	30	93 Type B	1061.54	9
9.11	20	21.5	41.59	30	94 Type B	1070.65	9
9.08	20	21.5	41.59	30	95 Type B	1079.73	9
9.07	20	21.5	41.59	30	96 Type B	1088.8	9
9.01	20	21.5	41.59	30	97 Type B	1097.81	9
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8.98	20	21.5	41.59	30	99 Type B	1115.8	9
8.9	20	21.5	41.59	30	100 Type B	1124.7	9
8.86	20	21.5	41.59	30	101 Type B	1133.56	9
8.8	20	21.5	41.59	30	102 Type B	1142.36	9

8.8	20	21.5	41.59	30	103 Type B	1151.16	9
8.78	20	21.5	41.59	30	104 Type B	1159.94	9
8.78	20	21.5	41.59	30	105 Type B	1168.72	9
8.77	20	21.5	41.59	30	106 Type B	1177.49	9
8.75	20	21.5	41.59	30	107 Type B	1186.24	9
8.73	20	21.5	41.59	30	108 Type B	1194.97	9
8.71	20	21.5	41.59	30	109 Type B	1203.68	9
8.67	20	21.5	41.59	30	110 Type B	1212.35	9
8.66	20	21.5	41.59	30	111 Type B	1221.01	9
8.65	20	21.5	41.59	30	112 Type B	1229.66	9
8.64	20	21.5	41.59	30	113 Type B	1238.3	9
8.63	20	21.5	41.59	30	114 Type B	1246.93	9
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8.51	20	21.5	41.59	30	122 Type B	1315.29	9
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8.41	20	21.5	41.59	30	126 Type B	1349.04	8
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8.41	20	21.5	41.59	30	128 Type B	1365.86	8
8.37	20	21.5	41.59	30	129 Type B	1374.23	8
8.36	20	21.5	41.59	30	130 Type B	1382.59	8
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8.25	20	21.5	41.59	30	139 Type B	1457.43	8
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8.21	20	21.5	41.59	30	141 Type B	1473.88	8
8.19	20	21.5	41.59	30	142 Type B	1482.07	8
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8.07	20	21.5	41.59	30	151 Type B	1555.13	8
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7.97	20	21.5	41.59	30	159 Type B	1619.18	8
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7.92	20	21.5	41.59	30	161 Type B	1635.06	8
7.9	20	21.5	41.59	30	162 Type B	1642.96	8
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7.88	20	21.5	41.59	30	165 Type B	1666.62	8
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7.81	20	21.5	41.59	30	168 Type B	1690.08	8
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7.76	20	21.5	41.59	30	170 Type B	1705.65	8
7.75	20	21.5	41.59	30	171 Type B	1713.4	8
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7.4	20	21.5	41.59	30	199 Type B	1925.73	7
7.38	20	21.5	41.59	30	200 Type B	1933.11	7
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7.37	20	21.5	41.59	30	202 Type B	1947.85	7
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7.35	20	21.5	41.59	30	204 Type B	1962.56	7
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7.34	20	21.5	41.59	30	206 Type B	1977.25	7
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6.87	20	21.5	41.59	30	238 Type B	2203.78	7
6.86	20	21.5	41.59	30	239 Type B	2210.64	7
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6.71	20	21.5	41.59	30	251 Type B	2291.94	7
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6.7	20	21.5	41.59	30	253 Type B	2305.34	7
6.68	20	21.5	41.59	30	254 Type B	2312.02	7
6.68	20	21.5	41.59	30	255 Type B	2318.7	7
6.67	20	21.5	41.59	30	256 Type B	2325.37	7
6.63	20	21.5	41.59	30	257 Type B	2332	7
6.62	20	21.5	41.59	30	258 Type B	2338.62	7
6.59	20	21.5	41.59	30	259 Type B	2345.21	7
6.51	20	21.5	41.59	30	260 Type B	2351.72	7
6.5	20	21.5	41.59	30	261 Type B	2358.22	7
6.49	20	21.5	41.59	30	262 Type B	2364.71	6
6.49	20	21.5	41.59	30	263 Type B	2371.2	6
6.48	20	21.5	41.59	30	264 Type B	2377.68	6
6.4	20	21.5	41.59	30	265 Type B	2384.08	6
6.39	20	21.5	41.59	30	266 Type B	2390.47	6
6.36	20	21.5	41.59	30	267 Type B	2396.83	6
6.32	20	21.5	41.59	30	268 Type B	2403.15	6
6.27	20	21.5	41.59	30	269 Type B	2409.42	6
6.24	20	21.5	41.59	30	270 Type B	2415.66	6
6.23	20	21.5	41.59	30	271 Type B	2421.89	6
6.21	20	21.5	41.59	30	272 Type B	2428.1	6
6.15	20	21.5	41.59	30	273 Type B	2434.25	6
6.15	20	21.5	41.59	30	274 Type B	2440.4	6
6.11	20	21.5	41.59	30	275 Type B	2446.51	6
6.1	20	21.5	41.59	30	276 Type B	2452.61	6

6.04	20	21.5	41.59	30	277 Type B	2458.65	6
6.03	20	21.5	41.59	30	278 Type B	2464.68	6
6.01	20	21.5	41.59	30	279 Type B	2470.69	6
6.01	20	21.5	41.59	30	280 Type B	2476.7	6
6	20	21.5	41.59	30	281 Type B	2482.7	6
6	20	21.5	41.59	30	282 Type B	2488.7	6
5.99	20	21.5	41.59	30	283 Type B	2494.69	6
5.97	20	21.5	41.59	30	284 Type B	2500.66	6
5.96	20	21.5	41.59	30	285 Type B	2506.62	6
5.95	20	21.5	41.59	30	286 Type B	2512.57	6
5.95	20	21.5	41.59	30	287 Type B	2518.52	6
5.91	20	21.5	41.59	30	288 Type B	2524.43	6
5.9	20	21.5	41.59	30	289 Type B	2530.33	6
5.86	20	21.5	41.59	30	290 Type B	2536.19	6
5.86	20	21.5	41.59	30	291 Type B	2542.05	6
5.84	20	21.5	41.59	30	292 Type B	2547.89	6
5.82	20	21.5	41.59	30	293 Type B	2553.71	6
5.79	20	21.5	41.59	30	294 Type B	2559.5	6
5.78	20	21.5	41.59	30	295 Type B	2565.28	6
5.78	20	21.5	41.59	30	296 Type B	2571.06	6
5.74	20	21.5	41.59	30	297 Type B	2576.8	6
5.67	20	21.5	41.59	30	298 Type B	2582.47	6
5.67	20	21.5	41.59	30	299 Type B	2588.14	6
5.61	20	21.5	41.59	30	300 Type B	2593.75	6
5.57	20	21.5	41.59	30	301 Type B	2599.32	6
5.56	20	21.5	41.59	30	302 Type B	2604.88	6
5.53	20	21.5	41.59	30	303 Type B	2610.41	6
5.51	20	21.5	41.59	30	304 Type B	2615.92	6
5.5	20	21.5	41.59	30	305 Type B	2621.42	6
5.48	20	21.5	41.59	30	306 Type B	2626.9	5
5.47	20	21.5	41.59	30	307 Type B	2632.37	5
5.47	20	21.5	41.59	30	308 Type B	2637.84	5
5.46	20	21.5	41.59	30	309 Type B	2643.3	5
5.4	20	21.5	41.59	30	310 Type B	2648.7	5
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5.36	20	21.5	41.59	30	312 Type B	2659.42	5
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5.32	20	21.5	41.59	30	315 Type B	2675.46	5
5.29	20	21.5	41.59	30	316 Type B	2680.75	5
5.27	20	21.5	41.59	30	317 Type B	2686.02	5
5.25	20	21.5	41.59	30	318 Type B	2691.27	5
5.25	20	21.5	41.59	30	319 Type B	2696.52	5
5.23	20	21.5	41.59	30	320 Type B	2701.75	5
5.2	20	21.5	41.59	30	321 Type B	2706.95	5
5.19	20	21.5	41.59	30	322 Type B	2712.14	5
5.18	20	21.5	41.59	30	323 Type B	2717.32	5
5.15	20	21.5	41.59	30	324 Type B	2722.47	5
5.11	20	21.5	41.59	30	325 Type B	2727.58	5
5.08	20	21.5	41.59	30	326 Type B	2732.66	5
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5.07	20	21.5	41.59	30	328 Type B	2742.81	5
5.04	20	21.5	41.59	30	329 Type B	2747.85	5
5.04	20	21.5	41.59	30	330 Type B	2752.89	5
5.03	20	21.5	41.59	30	331 Type B	2757.92	5
5.01	20	21.5	41.59	30	332 Type B	2762.93	5
5	20	21.5	41.59	30	333 Type B	2767.93	5
5	20	21.5	41.59	30	334 Type B	2772.93	5
4.99	20	21.5	41.59	30	335 Type B	2777.92	5
4.94	20	21.5	41.59	30	336 Type B	2782.86	5
4.93	20	21.5	41.59	30	337 Type B	2787.79	5
4.93	20	21.5	41.59	30	338 Type B	2792.72	5
4.92	20	21.5	41.59	30	339 Type B	2797.64	5
4.88	20	21.5	41.59	30	340 Type B	2802.52	5
4.84	20	21.5	41.59	30	341 Type B	2807.36	5
4.82	20	21.5	41.59	30	342 Type B	2812.18	5
4.82	20	21.5	41.59	30	343 Type B	2817	5
4.82	20	21.5	41.59	30	344 Type B	2821.82	5
4.78	20	21.5	41.59	30	345 Type B	2826.6	5
4.73	20	21.5	41.59	30	346 Type B	2831.33	5
4.71	20	21.5	41.59	30	347 Type B	2836.04	5
4.69	20	21.5	41.59	30	348 Type B	2840.73	5
4.66	20	21.5	41.59	30	349 Type B	2845.39	5
4.62	20	21.5	41.59	30	350 Type B	2850.01	5
4.6	20	21.5	41.59	30	351 Type B	2854.61	5
4.57	20	21.5	41.59	30	352 Type B	2859.18	5
4.57	20	21.5	41.59	30	353 Type B	2863.75	5
4.48	20	21.5	41.59	30	354 Type B	2868.23	4
4.45	20	21.5	41.59	30	355 Type B	2872.68	4
4.45	20	21.5	41.59	30	356 Type B	2877.13	4
4.44	20	21.5	41.59	30	357 Type B	2881.57	4
4.44	20	21.5	41.59	30	358 Type B	2886.01	4
4.43	20	21.5	41.59	30	359 Type B	2890.44	4
4.38	20	21.5	41.59	30	360 Type B	2894.82	4
4.35	20	21.5	41.59	30	361 Type B	2899.17	4
4.28	20	21.5	41.59	30	362 Type B	2903.45	4
4.28	20	21.5	41.59	30	363 Type B	2907.73	4

4.21	20	21.5	41.59	30	364 Type B	2911.94	4
4.21	20	21.5	41.59	30	365 Type B	2916.15	4
4.13	20	21.5	41.59	30	366 Type B	2920.28	4
4.09	20	21.5	41.59	30	367 Type B	2924.37	4
4.05	20	21.5	41.59	30	368 Type B	2928.42	4
4.04	20	21.5	41.59	30	369 Type B	2932.46	4
4	20	21.5	41.59	30	370 Type B	2936.46	4
3.98	20	21.5	41.59	30	371 Type B	2940.44	4
3.92	20	21.5	41.59	30	372 Type B	2944.36	4
3.92	20	21.5	41.59	30	373 Type B	2948.28	4
3.84	20	21.5	41.59	30	374 Type B	2952.12	4
3.82	20	21.5	41.59	30	375 Type B	2955.94	4
3.79	20	21.5	41.59	30	376 Type B	2959.73	4
3.65	20	21.5	41.59	30	377 Type B	2963.38	4
3.58	20	21.5	41.59	30	378 Type B	2966.96	4
3.53	20	21.5	41.59	30	379 Type B	2970.49	4
3.46	20	21.5	41.59	30	380 Type B	2973.95	3
3.33	20	21.5	41.59	30	381 Type B	2977.28	3
3.31	20	21.5	41.59	30	382 Type B	2980.59	3
3.22	20	21.5	41.59	30	383 Type B	2983.81	3
3.13	20	21.5	41.59	30	384 Type B	2986.94	3
3.13	20	21.5	41.59	30	385 Type B	2990.07	3
3.11	20	21.5	41.59	30	386 Type B	2993.18	3
3.05	20	21.5	41.59	30	387 Type B	2996.23	3
2.87	20	21.5	41.59	30	388 Type B	2999.1	3
2.71	20	21.5	41.59	30	389 Type B	3001.81	3
16	15	0.46	0.78	10	1 Type B	16	16
16	15	0.46	0.76	10	2 Type B	32	16
15.98	15	0.46	0.76	10	3 Type B	47.98	16
15.98	15	0.46	0.76	10	4 Type B	63.96	16
15.97	15	0.46	0.76	10	5 Type B	79.93	16
15.94	15	0.46	0.76	10	6 Type B	95.87	16
15.92	15	0.46	0.76	10	7 Type B	111.79	16
15.89	15	0.46	0.76	10	8 Type B	127.68	16
15.83	15	0.46	0.76	10	9 Type B	143.51	16
15.81	15	0.46	0.76	10	10 Type B	159.32	16
15.8	15	0.46	0.76	10	11 Type B	175.12	16
15.79	15	0.46	0.76	10	12 Type B	190.91	16
15.75	15	0.46	0.76	10	13 Type B	206.66	16
15.73	15	0.46	0.76	10	14 Type B	222.39	16
15.71	15	0.46	0.76	10	15 Type B	238.1	16
15.69	15	0.46	0.76	10	16 Type B	253.79	16
15.66	15	0.46	0.76	10	17 Type B	269.45	16
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15.62	15	0.46	0.76	10	19 Type B	300.71	16
15.62	15	0.46	0.76	10	20 Type B	316.33	16
15.6	15	0.46	0.76	10	21 Type B	331.93	16
15.51	15	0.46	0.76	10	22 Type B	347.44	16
15.39	15	0.46	0.76	10	23 Type B	362.83	15
15.36	15	0.46	0.76	10	24 Type B	378.19	15
15.35	15	0.46	0.76	10	25 Type B	393.54	15
15.35	15	0.46	0.76	10	26 Type B	408.89	15
15.35	15	0.46	0.76	10	27 Type B	424.24	15
15.33	15	0.46	0.76	10	28 Type B	439.57	15
15.31	15	0.46	0.76	10	29 Type B	454.88	15
15.3	15	0.46	0.76	10	30 Type B	470.18	15
15.29	15	0.46	0.76	10	31 Type B	485.47	15
15.28	15	0.46	0.76	10	32 Type B	500.75	15
15.25	15	0.46	0.76	10	33 Type B	516	15
15.23	15	0.46	0.76	10	34 Type B	531.23	15
15.23	15	0.46	0.76	10	35 Type B	546.46	15
15.23	15	0.46	0.76	10	36 Type B	561.69	15
15.22	15	0.46	0.76	10	37 Type B	576.91	15
15.18	15	0.46	0.76	10	38 Type B	592.09	15
15.15	15	0.46	0.76	10	39 Type B	607.24	15
15.08	15	0.46	0.76	10	40 Type B	622.32	15
15.07	15	0.46	0.76	10	41 Type B	637.39	15
15.06	15	0.46	0.76	10	42 Type B	652.45	15
15.03	15	0.46	0.76	10	43 Type B	667.48	15
15.02	15	0.46	0.76	10	44 Type B	682.5	15
15.01	15	0.46	0.76	10	45 Type B	697.51	15
15.01	15	0.46	0.76	10	46 Type B	712.52	15
14.98	15	0.46	0.76	10	47 Type B	727.5	15
14.97	15	0.46	0.76	10	48 Type B	742.47	15
14.91	15	0.46	0.76	10	49 Type B	757.38	15
14.9	15	0.46	0.76	10	50 Type B	772.28	15
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14.88	15	0.46	0.76	10	52 Type B	802.06	15
14.84	15	0.46	0.76	10	53 Type B	816.9	15
14.83	15	0.46	0.76	10	54 Type B	831.73	15
14.81	15	0.46	0.76	10	55 Type B	846.54	15
14.8	15	0.46	0.76	10	56 Type B	861.34	15
14.76	15	0.46	0.76	10	57 Type B	876.1	15
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14.66	15	0.46	0.76	10	59 Type B	905.49	15
14.64	15	0.46	0.76	10	60 Type B	920.13	15
14.63	15	0.46	0.76	10	61 Type B	934.76	15

14.62	15	0.46	0.76	10	62 Type B	949.38	15
14.61	15	0.46	0.76	10	63 Type B	963.99	15
14.59	15	0.46	0.76	10	64 Type B	978.58	15
14.58	15	0.46	0.76	10	65 Type B	993.16	15
14.51	15	0.46	0.76	10	66 Type B	1007.67	15
14.51	15	0.46	0.76	10	67 Type B	1022.18	15
14.49	15	0.46	0.76	10	68 Type B	1036.67	14
14.45	15	0.46	0.76	10	69 Type B	1051.12	14
14.44	15	0.46	0.76	10	70 Type B	1065.56	14
14.43	15	0.46	0.76	10	71 Type B	1079.99	14
14.42	15	0.46	0.76	10	72 Type B	1094.41	14
14.42	15	0.46	0.76	10	73 Type B	1108.83	14
14.42	15	0.46	0.76	10	74 Type B	1123.25	14
14.35	15	0.46	0.76	10	75 Type B	1137.6	14
14.33	15	0.46	0.76	10	76 Type B	1151.93	14
14.29	15	0.46	0.76	10	77 Type B	1166.22	14
14.25	15	0.46	0.76	10	78 Type B	1180.47	14
14.24	15	0.46	0.76	10	79 Type B	1194.71	14
14.17	15	0.46	0.76	10	80 Type B	1208.88	14
14.16	15	0.46	0.76	10	81 Type B	1223.04	14
14.09	15	0.46	0.76	10	82 Type B	1237.13	14
14.01	15	0.46	0.76	10	83 Type B	1251.14	14
13.99	15	0.46	0.76	10	84 Type B	1265.13	14
13.98	15	0.46	0.76	10	85 Type B	1279.11	14
13.96	15	0.46	0.76	10	86 Type B	1293.07	14
13.95	15	0.46	0.76	10	87 Type B	1307.02	14
13.94	15	0.46	0.76	10	88 Type B	1320.96	14
13.9	15	0.46	0.76	10	89 Type B	1334.86	14
13.87	15	0.46	0.76	10	90 Type B	1348.73	14
13.87	15	0.46	0.76	10	91 Type B	1362.6	14
13.8	15	0.46	0.76	10	92 Type B	1376.4	14
13.7	15	0.46	0.76	10	93 Type B	1390.1	14
13.65	15	0.46	0.76	10	94 Type B	1403.75	14
13.61	15	0.46	0.76	10	95 Type B	1417.36	14
13.4	15	0.46	0.76	10	96 Type B	1430.76	13
13.17	15	0.46	0.76	10	97 Type B	1443.93	13
13.12	15	0.46	0.76	10	98 Type B	1457.05	13
12.9	15	0.46	0.76	10	99 Type B	1469.95	13
12.22	15	0.46	0.76	10	100 Type B	1482.17	12
10.87	15	0.46	0.76	10	101 Type B	1493.04	11
6.58	15	0.46	0.76	10	102 Type B	1499.62	7
15.97	15	4.64	9.94	20	1 Type B	15.97	16
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15.56	15	4.64	9.94	20	7 Type B	109.64	16
15.5	15	4.64	9.94	20	8 Type B	125.14	16
15.41	15	4.64	9.94	20	9 Type B	140.55	15
15.27	15	4.64	9.94	20	10 Type B	155.82	15
15.16	15	4.64	9.94	20	11 Type B	170.98	15
15.11	15	4.64	9.94	20	12 Type B	186.09	15
15.09	15	4.64	9.94	20	13 Type B	201.18	15
14.87	15	4.64	9.94	20	14 Type B	216.05	15
14.85	15	4.64	9.94	20	15 Type B	230.9	15
14.83	15	4.64	9.94	20	16 Type B	245.73	15
14.82	15	4.64	9.94	20	17 Type B	260.55	15
14.78	15	4.64	9.94	20	18 Type B	275.33	15
14.76	15	4.64	9.94	20	19 Type B	290.09	15
14.76	15	4.64	9.94	20	20 Type B	304.85	15
14.71	15	4.64	9.94	20	21 Type B	319.56	15
14.7	15	4.64	9.94	20	22 Type B	334.26	15
14.69	15	4.64	9.94	20	23 Type B	348.95	15
14.62	15	4.64	9.94	20	24 Type B	363.57	15
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14.59	15	4.64	9.94	20	26 Type B	392.78	15
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14.46	15	4.64	9.94	20	28 Type B	421.76	14
14.38	15	4.64	9.94	20	29 Type B	436.14	14
14.34	15	4.64	9.94	20	30 Type B	450.48	14
14.22	15	4.64	9.94	20	31 Type B	464.7	14
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14.16	15	4.64	9.94	20	34 Type B	507.24	14
14.11	15	4.64	9.94	20	35 Type B	521.35	14
14.07	15	4.64	9.94	20	36 Type B	535.42	14
14.05	15	4.64	9.94	20	37 Type B	549.47	14
14.02	15	4.64	9.94	20	38 Type B	563.49	14
14.01	15	4.64	9.94	20	39 Type B	577.5	14
13.98	15	4.64	9.94	20	40 Type B	591.48	14
13.97	15	4.64	9.94	20	41 Type B	605.45	14
13.86	15	4.64	9.94	20	42 Type B	619.31	14
13.82	15	4.64	9.94	20	43 Type B	633.13	14
13.79	15	4.64	9.94	20	44 Type B	646.92	14
13.79	15	4.64	9.94	20	45 Type B	660.71	14
13.68	15	4.64	9.94	20	46 Type B	674.39	14

13.65	15	4.64	9.94	20	47 Type B	688.04	14
13.61	15	4.64	9.94	20	48 Type B	701.65	14
13.5	15	4.64	9.94	20	49 Type B	715.15	14
13.44	15	4.64	9.94	20	50 Type B	728.59	13
13.4	15	4.64	9.94	20	51 Type B	741.99	13
13.4	15	4.64	9.94	20	52 Type B	755.39	13
13.3	15	4.64	9.94	20	53 Type B	768.69	13
13.29	15	4.64	9.94	20	54 Type B	781.98	13
13.23	15	4.64	9.94	20	55 Type B	795.21	13
13.14	15	4.64	9.94	20	56 Type B	808.35	13
13.12	15	4.64	9.94	20	57 Type B	821.47	13
13.11	15	4.64	9.94	20	58 Type B	834.58	13
13.1	15	4.64	9.94	20	59 Type B	847.68	13
13.05	15	4.64	9.94	20	60 Type B	860.73	13
13.01	15	4.64	9.94	20	61 Type B	873.74	13
12.96	15	4.64	9.94	20	62 Type B	886.7	13
12.76	15	4.64	9.94	20	63 Type B	899.46	13
12.62	15	4.64	9.94	20	64 Type B	912.08	13
12.54	15	4.64	9.94	20	65 Type B	924.62	13
12.5	15	4.64	9.94	20	66 Type B	937.12	13
12.5	15	4.64	9.94	20	67 Type B	949.62	13
12.42	15	4.64	9.94	20	68 Type B	962.04	12
12.38	15	4.64	9.94	20	69 Type B	974.42	12
12.37	15	4.64	9.94	20	70 Type B	986.79	12
12.35	15	4.64	9.94	20	71 Type B	999.14	12
12.26	15	4.64	9.94	20	72 Type B	1011.4	12
12.25	15	4.64	9.94	20	73 Type B	1023.65	12
12.11	15	4.64	9.94	20	74 Type B	1035.76	12
11.9	15	4.64	9.94	20	75 Type B	1047.66	12
11.8	15	4.64	9.94	20	76 Type B	1059.46	12
11.55	15	4.64	9.94	20	77 Type B	1071.01	12
11.5	15	4.64	9.94	20	78 Type B	1082.51	12
11.41	15	4.64	9.94	20	79 Type B	1093.92	11
11.35	15	4.64	9.94	20	80 Type B	1105.27	11
11.35	15	4.64	9.94	20	81 Type B	1116.62	11
11.28	15	4.64	9.94	20	82 Type B	1127.9	11
11.25	15	4.64	9.94	20	83 Type B	1139.15	11
11.17	15	4.64	9.94	20	84 Type B	1150.32	11
11.13	15	4.64	9.94	20	85 Type B	1161.45	11
11.05	15	4.64	9.94	20	86 Type B	1172.5	11
11.05	15	4.64	9.94	20	87 Type B	1183.55	11
10.94	15	4.64	9.94	20	88 Type B	1194.49	11
10.91	15	4.64	9.94	20	89 Type B	1205.4	11
10.76	15	4.64	9.94	20	90 Type B	1216.16	11
10.76	15	4.64	9.94	20	91 Type B	1226.92	11
10.6	15	4.64	9.94	20	92 Type B	1237.52	11
10.44	15	4.64	9.94	20	93 Type B	1247.96	10
10.4	15	4.64	9.94	20	94 Type B	1258.36	10
10.26	15	4.64	9.94	20	95 Type B	1268.62	10
10.22	15	4.64	9.94	20	96 Type B	1278.84	10
10.18	15	4.64	9.94	20	97 Type B	1289.02	10
10.11	15	4.64	9.94	20	98 Type B	1299.13	10
10.1	15	4.64	9.94	20	99 Type B	1309.23	10
10.1	15	4.64	9.94	20	100 Type B	1319.33	10
10.04	15	4.64	9.94	20	101 Type B	1329.37	10
9.93	15	4.64	9.94	20	102 Type B	1339.3	10
9.84	15	4.64	9.94	20	103 Type B	1349.14	10
9.74	15	4.64	9.94	20	104 Type B	1358.88	10
9.64	15	4.64	9.94	20	105 Type B	1368.52	10
9.49	15	4.64	9.94	20	106 Type B	1378.01	9
9.45	15	4.64	9.94	20	107 Type B	1387.46	9
9.37	15	4.64	9.94	20	108 Type B	1396.83	9
9.37	15	4.64	9.94	20	109 Type B	1406.2	9
9.35	15	4.64	9.94	20	110 Type B	1415.55	9
9.31	15	4.64	9.94	20	111 Type B	1424.86	9
9.17	15	4.64	9.94	20	112 Type B	1434.03	9
9.15	15	4.64	9.94	20	113 Type B	1443.18	9
9.15	15	4.64	9.94	20	114 Type B	1452.33	9
9.13	15	4.64	9.94	20	115 Type B	1461.46	9
9.05	15	4.64	9.94	20	116 Type B	1470.51	9
8.88	15	4.64	9.94	20	117 Type B	1479.39	9
8.72	15	4.64	9.94	20	118 Type B	1488.11	9
8.59	15	4.64	9.94	20	119 Type B	1496.7	9
8.54	15	4.64	9.94	20	120 Type B	1505.24	9
8.51	15	4.64	9.94	20	121 Type B	1513.75	9
8.48	15	4.64	9.94	20	122 Type B	1522.23	8
8.44	15	4.64	9.94	20	123 Type B	1530.67	8
8.43	15	4.64	9.94	20	124 Type B	1539.1	8
8.41	15	4.64	9.94	20	125 Type B	1547.51	8
8.36	15	4.64	9.94	20	126 Type B	1555.87	8
8.2	15	4.64	9.94	20	127 Type B	1564.07	8
8.18	15	4.64	9.94	20	128 Type B	1572.25	8
8.16	15	4.64	9.94	20	129 Type B	1580.41	8
8.08	15	4.64	9.94	20	130 Type B	1588.49	8
8.06	15	4.64	9.94	20	131 Type B	1596.55	8
8.04	15	4.64	9.94	20	132 Type B	1604.59	8
7.97	15	4.64	9.94	20	133 Type B	1612.56	8

7.87	15	4.64	9.94	20	134 Type B	1620.43	8
7.8	15	4.64	9.94	20	135 Type B	1628.23	8
7.77	15	4.64	9.94	20	136 Type B	1636	8
7.76	15	4.64	9.94	20	137 Type B	1643.76	8
7.7	15	4.64	9.94	20	138 Type B	1651.46	8
7.63	15	4.64	9.94	20	139 Type B	1659.09	8
7.62	15	4.64	9.94	20	140 Type B	1666.71	8
7.62	15	4.64	9.94	20	141 Type B	1674.33	8
7.62	15	4.64	9.94	20	142 Type B	1681.95	8
7.41	15	4.64	9.94	20	143 Type B	1689.36	7
7.37	15	4.64	9.94	20	144 Type B	1696.73	7
7.35	15	4.64	9.94	20	145 Type B	1704.08	7
7.25	15	4.64	9.94	20	146 Type B	1711.33	7
7.12	15	4.64	9.94	20	147 Type B	1718.45	7
7.04	15	4.64	9.94	20	148 Type B	1725.49	7
7.04	15	4.64	9.94	20	149 Type B	1732.53	7
6.9	15	4.64	9.94	20	150 Type B	1739.43	7
6.77	15	4.64	9.94	20	151 Type B	1746.2	7
6.63	15	4.64	9.94	20	152 Type B	1752.83	7
6.59	15	4.64	9.94	20	153 Type B	1759.42	7
6.49	15	4.64	9.94	20	154 Type B	1765.91	6
6.46	15	4.64	9.94	20	155 Type B	1772.37	6
6.4	15	4.64	9.94	20	156 Type B	1778.77	6
6.35	15	4.64	9.94	20	157 Type B	1785.12	6
6.35	15	4.64	9.94	20	158 Type B	1791.47	6
6.31	15	4.64	9.94	20	159 Type B	1797.78	6
6.31	15	4.64	9.94	20	160 Type B	1804.09	6
6.21	15	4.64	9.94	20	161 Type B	1810.3	6
6.2	15	4.64	9.94	20	162 Type B	1816.5	6
6.03	15	4.64	9.94	20	163 Type B	1822.53	6
6	15	4.64	9.94	20	164 Type B	1828.53	6
5.95	15	4.64	9.94	20	165 Type B	1834.48	6
5.89	15	4.64	9.94	20	166 Type B	1840.37	6
5.87	15	4.64	9.94	20	167 Type B	1846.24	6
5.81	15	4.64	9.94	20	168 Type B	1852.05	6
5.55	15	4.64	9.94	20	169 Type B	1857.6	6
5.45	15	4.64	9.94	20	170 Type B	1863.05	5
5.35	15	4.64	9.94	20	171 Type B	1868.4	5
5.33	15	4.64	9.94	20	172 Type B	1873.73	5
5.26	15	4.64	9.94	20	173 Type B	1878.99	5
5.2	15	4.64	9.94	20	174 Type B	1884.19	5
5.13	15	4.64	9.94	20	175 Type B	1889.32	5
5.09	15	4.64	9.94	20	176 Type B	1894.41	5
5.05	15	4.64	9.94	20	177 Type B	1899.46	5
5.04	15	4.64	9.94	20	178 Type B	1904.5	5
4.93	15	4.64	9.94	20	179 Type B	1909.43	5
4.79	15	4.64	9.94	20	180 Type B	1914.22	5
4.57	15	4.64	9.94	20	181 Type B	1918.79	5
4.53	15	4.64	9.94	20	182 Type B	1923.32	5
4.47	15	4.64	9.94	20	183 Type B	1927.79	4
4.18	15	4.64	9.94	20	184 Type B	1931.97	4
3.69	15	4.64	9.94	20	185 Type B	1935.66	4
3.45	15	4.64	9.94	20	186 Type B	1939.11	3
2.85	15	4.64	9.94	20	187 Type B	1941.96	3
2.78	15	4.64	9.94	20	188 Type B	1944.74	3
15.6	15	15.43	33.83	30	1 Type B	15.6	16
15.13	15	15.43	33.83	30	2 Type B	30.73	15
14.92	15	15.43	33.83	30	3 Type B	45.65	15
14.79	15	15.43	33.83	30	4 Type B	60.44	15
14.62	15	15.43	33.83	30	5 Type B	75.06	15
14.58	15	15.43	33.83	30	6 Type B	89.64	15
14.55	15	15.43	33.83	30	7 Type B	104.19	15
14.36	15	15.43	33.83	30	8 Type B	118.55	14
13.8	15	15.43	33.83	30	9 Type B	132.35	14
13.48	15	15.43	33.83	30	10 Type B	145.83	13
13.48	15	15.43	33.83	30	11 Type B	159.31	13
13.47	15	15.43	33.83	30	12 Type B	172.78	13
13.08	15	15.43	33.83	30	13 Type B	185.86	13
12.53	15	15.43	33.83	30	14 Type B	198.39	13
12.4	15	15.43	33.83	30	15 Type B	210.79	12
12.35	15	15.43	33.83	30	16 Type B	223.14	12
12.04	15	15.43	33.83	30	17 Type B	235.18	12
12.01	15	15.43	33.83	30	18 Type B	247.19	12
11.9	15	15.43	33.83	30	19 Type B	259.09	12
11.74	15	15.43	33.83	30	20 Type B	270.83	12
11.59	15	15.43	33.83	30	21 Type B	282.42	12
11.49	15	15.43	33.83	30	22 Type B	293.91	11
11.28	15	15.43	33.83	30	23 Type B	305.19	11
11.27	15	15.43	33.83	30	24 Type B	316.46	11
11.17	15	15.43	33.83	30	25 Type B	327.63	11
11.11	15	15.43	33.83	30	26 Type B	338.74	11
11.09	15	15.43	33.83	30	27 Type B	349.83	11
11.08	15	15.43	33.83	30	28 Type B	360.91	11
11.08	15	15.43	33.83	30	29 Type B	371.99	11
10.93	15	15.43	33.83	30	30 Type B	382.92	11
10.87	15	15.43	33.83	30	31 Type B	393.79	11
10.85	15	15.43	33.83	30	32 Type B	404.64	11

10.77	15	15.43	33.83	30	33 Type B	415.41	11
10.49	15	15.43	33.83	30	34 Type B	425.9	10
10.38	15	15.43	33.83	30	35 Type B	436.28	10
10.31	15	15.43	33.83	30	36 Type B	446.59	10
10.3	15	15.43	33.83	30	37 Type B	456.89	10
10.29	15	15.43	33.83	30	38 Type B	467.18	10
10.28	15	15.43	33.83	30	39 Type B	477.46	10
10.25	15	15.43	33.83	30	40 Type B	487.71	10
10.22	15	15.43	33.83	30	41 Type B	497.93	10
10.12	15	15.43	33.83	30	42 Type B	508.05	10
10.06	15	15.43	33.83	30	43 Type B	518.11	10
10.02	15	15.43	33.83	30	44 Type B	528.13	10
9.94	15	15.43	33.83	30	45 Type B	538.07	10
9.91	15	15.43	33.83	30	46 Type B	547.98	10
9.7	15	15.43	33.83	30	47 Type B	557.68	10
9.57	15	15.43	33.83	30	48 Type B	567.25	10
9.57	15	15.43	33.83	30	49 Type B	576.82	10
9.49	15	15.43	33.83	30	50 Type B	586.31	9
9.47	15	15.43	33.83	30	51 Type B	595.78	9
9.47	15	15.43	33.83	30	52 Type B	605.25	9
9.4	15	15.43	33.83	30	53 Type B	614.65	9
9.39	15	15.43	33.83	30	54 Type B	624.04	9
9.24	15	15.43	33.83	30	55 Type B	633.28	9
9.22	15	15.43	33.83	30	56 Type B	642.5	9
9.18	15	15.43	33.83	30	57 Type B	651.68	9
9.18	15	15.43	33.83	30	58 Type B	660.86	9
9.04	15	15.43	33.83	30	59 Type B	669.9	9
8.98	15	15.43	33.83	30	60 Type B	678.88	9
8.88	15	15.43	33.83	30	61 Type B	687.76	9
8.83	15	15.43	33.83	30	62 Type B	696.59	9
8.81	15	15.43	33.83	30	63 Type B	705.4	9
8.72	15	15.43	33.83	30	64 Type B	714.12	9
8.67	15	15.43	33.83	30	65 Type B	722.79	9
8.57	15	15.43	33.83	30	66 Type B	731.36	9
8.57	15	15.43	33.83	30	67 Type B	739.93	9
8.51	15	15.43	33.83	30	68 Type B	748.44	9
8.51	15	15.43	33.83	30	69 Type B	756.95	9
8.49	15	15.43	33.83	30	70 Type B	765.44	8
8.45	15	15.43	33.83	30	71 Type B	773.89	8
8.4	15	15.43	33.83	30	72 Type B	782.29	8
8.34	15	15.43	33.83	30	73 Type B	790.63	8
8.32	15	15.43	33.83	30	74 Type B	798.95	8
8.29	15	15.43	33.83	30	75 Type B	807.24	8
8.29	15	15.43	33.83	30	76 Type B	815.53	8
8.26	15	15.43	33.83	30	77 Type B	823.79	8
8.23	15	15.43	33.83	30	78 Type B	832.02	8
8.23	15	15.43	33.83	30	79 Type B	840.25	8
8.22	15	15.43	33.83	30	80 Type B	848.47	8
8.21	15	15.43	33.83	30	81 Type B	856.68	8
8.19	15	15.43	33.83	30	82 Type B	864.87	8
8.16	15	15.43	33.83	30	83 Type B	873.03	8
8.09	15	15.43	33.83	30	84 Type B	881.12	8
8.03	15	15.43	33.83	30	85 Type B	889.15	8
7.98	15	15.43	33.83	30	86 Type B	897.13	8
7.94	15	15.43	33.83	30	87 Type B	905.07	8
7.94	15	15.43	33.83	30	88 Type B	913.01	8
7.91	15	15.43	33.83	30	89 Type B	920.92	8
7.89	15	15.43	33.83	30	90 Type B	928.81	8
7.88	15	15.43	33.83	30	91 Type B	936.69	8
7.86	15	15.43	33.83	30	92 Type B	944.55	8
7.85	15	15.43	33.83	30	93 Type B	952.4	8
7.85	15	15.43	33.83	30	94 Type B	960.25	8
7.83	15	15.43	33.83	30	95 Type B	968.08	8
7.76	15	15.43	33.83	30	96 Type B	975.84	8
7.73	15	15.43	33.83	30	97 Type B	983.57	8
7.72	15	15.43	33.83	30	98 Type B	991.29	8
7.72	15	15.43	33.83	30	99 Type B	999.01	8
7.72	15	15.43	33.83	30	100 Type B	1006.73	8
7.71	15	15.43	33.83	30	101 Type B	1014.44	8
7.7	15	15.43	33.83	30	102 Type B	1022.14	8
7.65	15	15.43	33.83	30	103 Type B	1029.79	8
7.65	15	15.43	33.83	30	104 Type B	1037.44	8
7.63	15	15.43	33.83	30	105 Type B	1045.07	8
7.63	15	15.43	33.83	30	106 Type B	1052.7	8
7.62	15	15.43	33.83	30	107 Type B	1060.32	8
7.56	15	15.43	33.83	30	108 Type B	1067.88	8
7.48	15	15.43	33.83	30	109 Type B	1075.36	7
7.44	15	15.43	33.83	30	110 Type B	1082.8	7
7.43	15	15.43	33.83	30	111 Type B	1090.23	7
7.43	15	15.43	33.83	30	112 Type B	1097.66	7
7.38	15	15.43	33.83	30	113 Type B	1105.04	7
7.35	15	15.43	33.83	30	114 Type B	1112.39	7
7.21	15	15.43	33.83	30	115 Type B	1119.6	7
7.19	15	15.43	33.83	30	116 Type B	1126.79	7
7.18	15	15.43	33.83	30	117 Type B	1133.97	7
7.16	15	15.43	33.83	30	118 Type B	1141.13	7
7.12	15	15.43	33.83	30	119 Type B	1148.25	7

7.11	15	15.43	33.83	30	120 Type B	1155.36	7
7.08	15	15.43	33.83	30	121 Type B	1162.44	7
6.97	15	15.43	33.83	30	122 Type B	1169.41	7
6.92	15	15.43	33.83	30	123 Type B	1176.33	7
6.85	15	15.43	33.83	30	124 Type B	1183.18	7
6.83	15	15.43	33.83	30	125 Type B	1190.01	7
6.81	15	15.43	33.83	30	126 Type B	1196.82	7
6.8	15	15.43	33.83	30	127 Type B	1203.62	7
6.75	15	15.43	33.83	30	128 Type B	1210.37	7
6.75	15	15.43	33.83	30	129 Type B	1217.12	7
6.74	15	15.43	33.83	30	130 Type B	1223.86	7
6.73	15	15.43	33.83	30	131 Type B	1230.59	7
6.73	15	15.43	33.83	30	132 Type B	1237.32	7
6.72	15	15.43	33.83	30	133 Type B	1244.04	7
6.72	15	15.43	33.83	30	134 Type B	1250.76	7
6.7	15	15.43	33.83	30	135 Type B	1257.46	7
6.69	15	15.43	33.83	30	136 Type B	1264.15	7
6.69	15	15.43	33.83	30	137 Type B	1270.84	7
6.67	15	15.43	33.83	30	138 Type B	1277.51	7
6.65	15	15.43	33.83	30	139 Type B	1284.16	7
6.64	15	15.43	33.83	30	140 Type B	1290.8	7
6.63	15	15.43	33.83	30	141 Type B	1297.43	7
6.56	15	15.43	33.83	30	142 Type B	1303.99	7
6.53	15	15.43	33.83	30	143 Type B	1310.52	7
6.5	15	15.43	33.83	30	144 Type B	1317.02	7
6.48	15	15.43	33.83	30	145 Type B	1323.5	6
6.47	15	15.43	33.83	30	146 Type B	1329.97	6
6.43	15	15.43	33.83	30	147 Type B	1336.4	6
6.42	15	15.43	33.83	30	148 Type B	1342.82	6
6.33	15	15.43	33.83	30	149 Type B	1349.15	6
6.29	15	15.43	33.83	30	150 Type B	1355.44	6
6.26	15	15.43	33.83	30	151 Type B	1361.7	6
6.25	15	15.43	33.83	30	152 Type B	1367.95	6
6.24	15	15.43	33.83	30	153 Type B	1374.19	6
6.23	15	15.43	33.83	30	154 Type B	1380.42	6
6.2	15	15.43	33.83	30	155 Type B	1386.62	6
6.19	15	15.43	33.83	30	156 Type B	1392.81	6
6.17	15	15.43	33.83	30	157 Type B	1398.98	6
6.12	15	15.43	33.83	30	158 Type B	1405.1	6
6.11	15	15.43	33.83	30	159 Type B	1411.21	6
6.09	15	15.43	33.83	30	160 Type B	1417.3	6
6.08	15	15.43	33.83	30	161 Type B	1423.38	6
6.07	15	15.43	33.83	30	162 Type B	1429.45	6
6.07	15	15.43	33.83	30	163 Type B	1435.52	6
6.01	15	15.43	33.83	30	164 Type B	1441.53	6
5.99	15	15.43	33.83	30	165 Type B	1447.52	6
5.97	15	15.43	33.83	30	166 Type B	1453.49	6
5.94	15	15.43	33.83	30	167 Type B	1459.43	6
5.94	15	15.43	33.83	30	168 Type B	1465.37	6
5.83	15	15.43	33.83	30	169 Type B	1471.2	6
5.83	15	15.43	33.83	30	170 Type B	1477.03	6
5.81	15	15.43	33.83	30	171 Type B	1482.84	6
5.79	15	15.43	33.83	30	172 Type B	1488.63	6
5.71	15	15.43	33.83	30	173 Type B	1494.34	6
5.71	15	15.43	33.83	30	174 Type B	1500.05	6
5.71	15	15.43	33.83	30	175 Type B	1505.76	6
5.68	15	15.43	33.83	30	176 Type B	1511.44	6
5.68	15	15.43	33.83	30	177 Type B	1517.12	6
5.67	15	15.43	33.83	30	178 Type B	1522.79	6
5.61	15	15.43	33.83	30	179 Type B	1528.4	6
5.61	15	15.43	33.83	30	180 Type B	1534.01	6
5.58	15	15.43	33.83	30	181 Type B	1539.59	6
5.56	15	15.43	33.83	30	182 Type B	1545.15	6
5.53	15	15.43	33.83	30	183 Type B	1550.68	6
5.51	15	15.43	33.83	30	184 Type B	1556.19	6
5.5	15	15.43	33.83	30	185 Type B	1561.69	6
5.48	15	15.43	33.83	30	186 Type B	1567.17	5
5.48	15	15.43	33.83	30	187 Type B	1572.65	5
5.42	15	15.43	33.83	30	188 Type B	1578.07	5
5.41	15	15.43	33.83	30	189 Type B	1583.48	5
5.36	15	15.43	33.83	30	190 Type B	1588.84	5
5.34	15	15.43	33.83	30	191 Type B	1594.18	5
5.31	15	15.43	33.83	30	192 Type B	1599.49	5
5.28	15	15.43	33.83	30	193 Type B	1604.77	5
5.23	15	15.43	33.83	30	194 Type B	1610	5
5.22	15	15.43	33.83	30	195 Type B	1615.22	5
5.21	15	15.43	33.83	30	196 Type B	1620.43	5
5.21	15	15.43	33.83	30	197 Type B	1625.64	5
5.17	15	15.43	33.83	30	198 Type B	1630.81	5
5.17	15	15.43	33.83	30	199 Type B	1635.98	5
5.11	15	15.43	33.83	30	200 Type B	1641.09	5
5.1	15	15.43	33.83	30	201 Type B	1646.19	5
5.1	15	15.43	33.83	30	202 Type B	1651.29	5
5.09	15	15.43	33.83	30	203 Type B	1656.38	5
5.07	15	15.43	33.83	30	204 Type B	1661.45	5
5.03	15	15.43	33.83	30	205 Type B	1666.48	5
5.02	15	15.43	33.83	30	206 Type B	1671.5	5

4.99	15	15.43	33.83	30	207 Type B	1676.49	5
4.96	15	15.43	33.83	30	208 Type B	1681.45	5
4.88	15	15.43	33.83	30	209 Type B	1686.33	5
4.87	15	15.43	33.83	30	210 Type B	1691.2	5
4.84	15	15.43	33.83	30	211 Type B	1696.04	5
4.83	15	15.43	33.83	30	212 Type B	1700.87	5
4.83	15	15.43	33.83	30	213 Type B	1705.7	5
4.78	15	15.43	33.83	30	214 Type B	1710.48	5
4.76	15	15.43	33.83	30	215 Type B	1715.24	5
4.76	15	15.43	33.83	30	216 Type B	1720	5
4.74	15	15.43	33.83	30	217 Type B	1724.74	5
4.71	15	15.43	33.83	30	218 Type B	1729.45	5
4.69	15	15.43	33.83	30	219 Type B	1734.14	5
4.66	15	15.43	33.83	30	220 Type B	1738.8	5
4.65	15	15.43	33.83	30	221 Type B	1743.45	5
4.59	15	15.43	33.83	30	222 Type B	1748.04	5
4.52	15	15.43	33.83	30	223 Type B	1752.56	5
4.46	15	15.43	33.83	30	224 Type B	1757.02	4
4.44	15	15.43	33.83	30	225 Type B	1761.46	4
4.34	15	15.43	33.83	30	226 Type B	1765.8	4
4.33	15	15.43	33.83	30	227 Type B	1770.13	4
4.32	15	15.43	33.83	30	228 Type B	1774.45	4
4.32	15	15.43	33.83	30	229 Type B	1778.77	4
4.26	15	15.43	33.83	30	230 Type B	1783.03	4
4.25	15	15.43	33.83	30	231 Type B	1787.28	4
4.24	15	15.43	33.83	30	232 Type B	1791.52	4
4.24	15	15.43	33.83	30	233 Type B	1795.76	4
4.21	15	15.43	33.83	30	234 Type B	1799.97	4
4.16	15	15.43	33.83	30	235 Type B	1804.13	4
4.13	15	15.43	33.83	30	236 Type B	1808.26	4
4.1	15	15.43	33.83	30	237 Type B	1812.36	4
4.07	15	15.43	33.83	30	238 Type B	1816.43	4
4.04	15	15.43	33.83	30	239 Type B	1820.47	4
4	15	15.43	33.83	30	240 Type B	1824.47	4
4	15	15.43	33.83	30	241 Type B	1828.47	4
3.98	15	15.43	33.83	30	242 Type B	1832.45	4
3.98	15	15.43	33.83	30	243 Type B	1836.43	4
3.94	15	15.43	33.83	30	244 Type B	1840.37	4
3.65	15	15.43	33.83	30	245 Type B	1844.02	4
3.65	15	15.43	33.83	30	246 Type B	1847.67	4
3.53	15	15.43	33.83	30	247 Type B	1851.2	4
3.5	15	15.43	33.83	30	248 Type B	1854.7	4
3.08	15	15.43	33.83	30	249 Type B	1857.78	3
2.99	15	15.43	33.83	30	250 Type B	1860.77	3
2.87	15	15.43	33.83	30	251 Type B	1863.64	3
2.7	15	15.43	33.83	30	252 Type B	1866.34	3
11	10	0.2	0.2	10	1 Type B	11	11
10.96	10	0.2	0.2	10	2 Type B	21.96	11
10.96	10	0.2	0.2	10	3 Type B	32.92	11
10.92	10	0.2	0.2	10	4 Type B	43.84	11
10.91	10	0.2	0.2	10	5 Type B	54.75	11
10.88	10	0.2	0.2	10	6 Type B	65.63	11
10.87	10	0.2	0.2	10	7 Type B	76.5	11
10.87	10	0.2	0.2	10	8 Type B	87.37	11
10.86	10	0.2	0.2	10	9 Type B	98.23	11
10.84	10	0.2	0.2	10	10 Type B	109.07	11
10.78	10	0.2	0.2	10	11 Type B	119.85	11
10.78	10	0.2	0.2	10	12 Type B	130.63	11
10.77	10	0.2	0.2	10	13 Type B	141.4	11
10.76	10	0.2	0.2	10	14 Type B	152.16	11
10.74	10	0.2	0.2	10	15 Type B	162.9	11
10.74	10	0.2	0.2	10	16 Type B	173.64	11
10.73	10	0.2	0.2	10	17 Type B	184.37	11
10.64	10	0.2	0.2	10	18 Type B	195.01	11
10.62	10	0.2	0.2	10	19 Type B	205.63	11
10.61	10	0.2	0.2	10	20 Type B	216.24	11
10.58	10	0.2	0.2	10	21 Type B	226.82	11
10.58	10	0.2	0.2	10	22 Type B	237.4	11
10.57	10	0.2	0.2	10	23 Type B	247.97	11
10.57	10	0.2	0.2	10	24 Type B	258.54	11
10.57	10	0.2	0.2	10	25 Type B	269.11	11
10.56	10	0.2	0.2	10	26 Type B	279.67	11
10.55	10	0.2	0.2	10	27 Type B	290.22	11
10.55	10	0.2	0.2	10	28 Type B	300.77	11
10.52	10	0.2	0.2	10	29 Type B	311.29	11
10.37	10	0.2	0.2	10	30 Type B	321.66	10
10.37	10	0.2	0.2	10	31 Type B	332.03	10
10.33	10	0.2	0.2	10	32 Type B	342.36	10
10.29	10	0.2	0.2	10	33 Type B	352.65	10
10.28	10	0.2	0.2	10	34 Type B	362.93	10
10.23	10	0.2	0.2	10	35 Type B	373.16	10
10.15	10	0.2	0.2	10	36 Type B	383.31	10
10.15	10	0.2	0.2	10	37 Type B	393.46	10
10.15	10	0.2	0.2	10	38 Type B	403.61	10
10.13	10	0.2	0.2	10	39 Type B	413.74	10
10.12	10	0.2	0.2	10	40 Type B	423.86	10
10.1	10	0.2	0.2	10	41 Type B	433.96	10

10.1	10	0.2	0.2	10	42 Type B	444.06	10
10.09	10	0.2	0.2	10	43 Type B	454.15	10
10.08	10	0.2	0.2	10	44 Type B	464.23	10
10.08	10	0.2	0.2	10	45 Type B	474.31	10
10.07	10	0.2	0.2	10	46 Type B	484.38	10
10.06	10	0.2	0.2	10	47 Type B	494.44	10
10.06	10	0.2	0.2	10	48 Type B	504.5	10
9.99	10	0.2	0.2	10	49 Type B	514.49	10
9.99	10	0.2	0.2	10	50 Type B	524.48	10
9.98	10	0.2	0.2	10	51 Type B	534.46	10
9.98	10	0.2	0.2	10	52 Type B	544.44	10
9.98	10	0.2	0.2	10	53 Type B	554.42	10
9.98	10	0.2	0.2	10	54 Type B	564.4	10
9.95	10	0.2	0.2	10	55 Type B	574.35	10
9.94	10	0.2	0.2	10	56 Type B	584.29	10
9.94	10	0.2	0.2	10	57 Type B	594.23	10
9.93	10	0.2	0.2	10	58 Type B	604.16	10
9.92	10	0.2	0.2	10	59 Type B	614.08	10
9.9	10	0.2	0.2	10	60 Type B	623.98	10
9.84	10	0.2	0.2	10	61 Type B	633.82	10
9.83	10	0.2	0.2	10	62 Type B	643.65	10
9.83	10	0.2	0.2	10	63 Type B	653.48	10
9.78	10	0.2	0.2	10	64 Type B	663.26	10
9.78	10	0.2	0.2	10	65 Type B	673.04	10
9.75	10	0.2	0.2	10	66 Type B	682.79	10
9.71	10	0.2	0.2	10	67 Type B	692.5	10
9.69	10	0.2	0.2	10	68 Type B	702.19	10
9.68	10	0.2	0.2	10	69 Type B	711.87	10
9.66	10	0.2	0.2	10	70 Type B	721.53	10
9.66	10	0.2	0.2	10	71 Type B	731.19	10
9.65	10	0.2	0.2	10	72 Type B	740.84	10
9.64	10	0.2	0.2	10	73 Type B	750.48	10
9.63	10	0.2	0.2	10	74 Type B	760.11	10
9.58	10	0.2	0.2	10	75 Type B	769.69	10
9.56	10	0.2	0.2	10	76 Type B	779.25	10
9.55	10	0.2	0.2	10	77 Type B	788.8	10
9.53	10	0.2	0.2	10	78 Type B	798.33	10
9.53	10	0.2	0.2	10	79 Type B	807.86	10
9.53	10	0.2	0.2	10	80 Type B	817.39	10
9.51	10	0.2	0.2	10	81 Type B	826.9	10
9.51	10	0.2	0.2	10	82 Type B	836.41	10
9.48	10	0.2	0.2	10	83 Type B	845.89	9
9.46	10	0.2	0.2	10	84 Type B	855.35	9
9.46	10	0.2	0.2	10	85 Type B	864.81	9
9.37	10	0.2	0.2	10	86 Type B	874.18	9
9.35	10	0.2	0.2	10	87 Type B	883.53	9
9.32	10	0.2	0.2	10	88 Type B	892.85	9
9.29	10	0.2	0.2	10	89 Type B	902.14	9
9.28	10	0.2	0.2	10	90 Type B	911.42	9
9.25	10	0.2	0.2	10	91 Type B	920.67	9
9.14	10	0.2	0.2	10	92 Type B	929.81	9
9.12	10	0.2	0.2	10	93 Type B	938.93	9
9.1	10	0.2	0.2	10	94 Type B	948.03	9
9.1	10	0.2	0.2	10	95 Type B	957.13	9
9.02	10	0.2	0.2	10	96 Type B	966.15	9
9.02	10	0.2	0.2	10	97 Type B	975.17	9
8.97	10	0.2	0.2	10	98 Type B	984.14	9
8.91	10	0.2	0.2	10	99 Type B	993.05	9
8.9	10	0.2	0.2	10	100 Type B	1001.95	9
8.77	10	0.2	0.2	10	101 Type B	1010.72	9
8.65	10	0.2	0.2	10	102 Type B	1019.37	9
8.6	10	0.2	0.2	10	103 Type B	1027.97	9
6.87	10	0.2	0.2	10	104 Type B	1034.84	7
4.56	10	0.2	0.2	10	105 Type B	1039.4	5
11	10	2.42	4.47	20	1 Type B	11	11
10.97	10	2.42	4.47	20	2 Type B	21.97	11
10.97	10	2.42	4.47	20	3 Type B	32.94	11
10.94	10	2.42	4.47	20	4 Type B	43.88	11
10.93	10	2.42	4.47	20	5 Type B	54.81	11
10.92	10	2.42	4.47	20	6 Type B	65.73	11
10.88	10	2.42	4.47	20	7 Type B	76.61	11
10.85	10	2.42	4.47	20	8 Type B	87.46	11
10.83	10	2.42	4.47	20	9 Type B	98.29	11
10.82	10	2.42	4.47	20	10 Type B	109.11	11
10.8	10	2.42	4.47	20	11 Type B	119.91	11
10.79	10	2.42	4.47	20	12 Type B	130.7	11
10.73	10	2.42	4.47	20	13 Type B	141.43	11
10.64	10	2.42	4.47	20	14 Type B	152.07	11
10.61	10	2.42	4.47	20	15 Type B	162.68	11
10.6	10	2.42	4.47	20	16 Type B	173.28	11
10.59	10	2.42	4.47	20	17 Type B	183.87	11
10.56	10	2.42	4.47	20	18 Type B	194.43	11
10.56	10	2.42	4.47	20	19 Type B	204.99	11
10.46	10	2.42	4.47	20	20 Type B	215.45	10
10.4	10	2.42	4.47	20	21 Type B	225.85	10
10.38	10	2.42	4.47	20	22 Type B	236.23	10
10.34	10	2.42	4.47	20	23 Type B	246.57	10

10.32	10	2.42	4.47	20	24 Type B	256.89	10
10.32	10	2.42	4.47	20	25 Type B	267.21	10
10.3	10	2.42	4.47	20	26 Type B	277.51	10
10.27	10	2.42	4.47	20	27 Type B	287.78	10
10.22	10	2.42	4.47	20	28 Type B	298	10
10.22	10	2.42	4.47	20	29 Type B	308.22	10
10.21	10	2.42	4.47	20	30 Type B	318.43	10
10.17	10	2.42	4.47	20	31 Type B	328.6	10
10.17	10	2.42	4.47	20	32 Type B	338.77	10
10.16	10	2.42	4.47	20	33 Type B	348.93	10
10.09	10	2.42	4.47	20	34 Type B	359.02	10
10.07	10	2.42	4.47	20	35 Type B	369.09	10
10.03	10	2.42	4.47	20	36 Type B	379.12	10
10.01	10	2.42	4.47	20	37 Type B	389.13	10
10	10	2.42	4.47	20	38 Type B	399.13	10
10	10	2.42	4.47	20	39 Type B	409.13	10
9.99	10	2.42	4.47	20	40 Type B	419.12	10
9.97	10	2.42	4.47	20	41 Type B	429.09	10
9.94	10	2.42	4.47	20	42 Type B	439.03	10
9.87	10	2.42	4.47	20	43 Type B	448.9	10
9.86	10	2.42	4.47	20	44 Type B	458.76	10
9.79	10	2.42	4.47	20	45 Type B	468.55	10
9.76	10	2.42	4.47	20	46 Type B	478.31	10
9.75	10	2.42	4.47	20	47 Type B	488.06	10
9.73	10	2.42	4.47	20	48 Type B	497.79	10
9.7	10	2.42	4.47	20	49 Type B	507.49	10
9.69	10	2.42	4.47	20	50 Type B	517.18	10
9.64	10	2.42	4.47	20	51 Type B	526.82	10
9.59	10	2.42	4.47	20	52 Type B	536.41	10
9.56	10	2.42	4.47	20	53 Type B	545.97	10
9.48	10	2.42	4.47	20	54 Type B	555.45	9
9.46	10	2.42	4.47	20	55 Type B	564.91	9
9.43	10	2.42	4.47	20	56 Type B	574.34	9
9.4	10	2.42	4.47	20	57 Type B	583.74	9
9.4	10	2.42	4.47	20	58 Type B	593.14	9
9.35	10	2.42	4.47	20	59 Type B	602.49	9
9.32	10	2.42	4.47	20	60 Type B	611.81	9
9.31	10	2.42	4.47	20	61 Type B	621.12	9
9.29	10	2.42	4.47	20	62 Type B	630.41	9
9.27	10	2.42	4.47	20	63 Type B	639.68	9
9.26	10	2.42	4.47	20	64 Type B	648.94	9
9.23	10	2.42	4.47	20	65 Type B	658.17	9
9.21	10	2.42	4.47	20	66 Type B	667.38	9
9.13	10	2.42	4.47	20	67 Type B	676.51	9
9.07	10	2.42	4.47	20	68 Type B	685.58	9
9.06	10	2.42	4.47	20	69 Type B	694.64	9
9.04	10	2.42	4.47	20	70 Type B	703.68	9
8.99	10	2.42	4.47	20	71 Type B	712.67	9
8.87	10	2.42	4.47	20	72 Type B	721.54	9
8.78	10	2.42	4.47	20	73 Type B	730.32	9
8.76	10	2.42	4.47	20	74 Type B	739.08	9
8.72	10	2.42	4.47	20	75 Type B	747.8	9
8.71	10	2.42	4.47	20	76 Type B	756.51	9
8.71	10	2.42	4.47	20	77 Type B	765.22	9
8.71	10	2.42	4.47	20	78 Type B	773.93	9
8.68	10	2.42	4.47	20	79 Type B	782.61	9
8.67	10	2.42	4.47	20	80 Type B	791.28	9
8.61	10	2.42	4.47	20	81 Type B	799.89	9
8.59	10	2.42	4.47	20	82 Type B	808.48	9
8.59	10	2.42	4.47	20	83 Type B	817.07	9
8.53	10	2.42	4.47	20	84 Type B	825.6	9
8.47	10	2.42	4.47	20	85 Type B	834.07	8
8.46	10	2.42	4.47	20	86 Type B	842.53	8
8.42	10	2.42	4.47	20	87 Type B	850.95	8
8.39	10	2.42	4.47	20	88 Type B	859.34	8
8.31	10	2.42	4.47	20	89 Type B	867.65	8
8.26	10	2.42	4.47	20	90 Type B	875.91	8
8.15	10	2.42	4.47	20	91 Type B	884.06	8
8.13	10	2.42	4.47	20	92 Type B	892.19	8
8.1	10	2.42	4.47	20	93 Type B	900.29	8
8.08	10	2.42	4.47	20	94 Type B	908.37	8
8.08	10	2.42	4.47	20	95 Type B	916.45	8
8.06	10	2.42	4.47	20	96 Type B	924.51	8
7.93	10	2.42	4.47	20	97 Type B	932.44	8
7.88	10	2.42	4.47	20	98 Type B	940.32	8
7.79	10	2.42	4.47	20	99 Type B	948.11	8
7.68	10	2.42	4.47	20	100 Type B	955.79	8
7.37	10	2.42	4.47	20	101 Type B	963.16	7
7.33	10	2.42	4.47	20	102 Type B	970.49	7
7	10	2.42	4.47	20	103 Type B	977.49	7
6.85	10	2.42	4.47	20	104 Type B	984.34	7
6.81	10	2.42	4.47	20	105 Type B	991.15	7
6.71	10	2.42	4.47	20	106 Type B	997.86	7
6.66	10	2.42	4.47	20	107 Type B	1004.52	7
6.53	10	2.42	4.47	20	108 Type B	1011.05	7
6.33	10	2.42	4.47	20	109 Type B	1017.38	6
6.13	10	2.42	4.47	20	110 Type B	1023.51	6

6.11	10	2.42	4.47	20	111 Type B	1029.62	6
5.92	10	2.42	4.47	20	112 Type B	1035.54	6
5.86	10	2.42	4.47	20	113 Type B	1041.4	6
5.75	10	2.42	4.47	20	114 Type B	1047.15	6
5.65	10	2.42	4.47	20	115 Type B	1052.8	6
5.6	10	2.42	4.47	20	116 Type B	1058.4	6
5.55	10	2.42	4.47	20	117 Type B	1063.95	6
5.54	10	2.42	4.47	20	118 Type B	1069.49	6
5.44	10	2.42	4.47	20	119 Type B	1074.93	5
5.4	10	2.42	4.47	20	120 Type B	1080.33	5
5.3	10	2.42	4.47	20	121 Type B	1085.63	5
5.24	10	2.42	4.47	20	122 Type B	1090.87	5
5.05	10	2.42	4.47	20	123 Type B	1095.92	5
4.79	10	2.42	4.47	20	124 Type B	1100.71	5
4.45	10	2.42	4.47	20	125 Type B	1105.16	4
4.4	10	2.42	4.47	20	126 Type B	1109.56	4
4.36	10	2.42	4.47	20	127 Type B	1113.92	4
4.31	10	2.42	4.47	20	128 Type B	1118.23	4
4.29	10	2.42	4.47	20	129 Type B	1122.52	4
4.2	10	2.42	4.47	20	130 Type B	1126.72	4
4.16	10	2.42	4.47	20	131 Type B	1130.88	4
4.02	10	2.42	4.47	20	132 Type B	1134.9	4
3.89	10	2.42	4.47	20	133 Type B	1138.79	4
3.88	10	2.42	4.47	20	134 Type B	1142.67	4
3.49	10	2.42	4.47	20	135 Type B	1146.16	3
3.47	10	2.42	4.47	20	136 Type B	1149.63	3
3.46	10	2.42	4.47	20	137 Type B	1153.09	3
3.17	10	2.42	4.47	20	138 Type B	1156.26	3
3.02	10	2.42	4.47	20	139 Type B	1159.28	3
2.97	10	2.42	4.47	20	140 Type B	1162.25	3
2.8	10	2.42	4.47	20	141 Type B	1165.05	3
11	10	10.21	21.27	30	1 Type B	9.47	11
10.98	10	10.21	21.27	30	2 Type B	20.47	11
10.75	10	10.21	21.27	30	3 Type B	31.45	11
10.74	10	10.21	21.27	30	4 Type B	42.2	11
10.34	10	10.21	21.27	30	5 Type B	52.94	10
10.29	10	10.21	21.27	30	6 Type B	63.28	10
10.2	10	10.21	21.27	30	7 Type B	73.57	10
10.14	10	10.21	21.27	30	8 Type B	83.77	10
10.07	10	10.21	21.27	30	9 Type B	93.91	10
9.97	10	10.21	21.27	30	10 Type B	103.98	10
9.97	10	10.21	21.27	30	11 Type B	113.95	10
9.96	10	10.21	21.27	30	12 Type B	123.92	10
9.95	10	10.21	21.27	30	13 Type B	133.88	10
9.93	10	10.21	21.27	30	14 Type B	143.83	10
9.89	10	10.21	21.27	30	15 Type B	153.76	10
9.83	10	10.21	21.27	30	16 Type B	163.65	10
9.81	10	10.21	21.27	30	17 Type B	173.48	10
9.76	10	10.21	21.27	30	18 Type B	183.29	10
9.75	10	10.21	21.27	30	19 Type B	193.05	10
9.7	10	10.21	21.27	30	20 Type B	202.8	10
9.68	10	10.21	21.27	30	21 Type B	212.5	10
9.63	10	10.21	21.27	30	22 Type B	222.18	10
9.56	10	10.21	21.27	30	23 Type B	231.81	10
9.56	10	10.21	21.27	30	24 Type B	241.37	10
9.53	10	10.21	21.27	30	25 Type B	250.93	10
9.51	10	10.21	21.27	30	26 Type B	260.46	10
9.51	10	10.21	21.27	30	27 Type B	269.97	10
9.47	10	10.21	21.27	30	28 Type B	279.48	9
9.42	10	10.21	21.27	30	29 Type B	288.9	9
9.42	10	10.21	21.27	30	30 Type B	298.32	9
9.35	10	10.21	21.27	30	31 Type B	307.67	9
9.17	10	10.21	21.27	30	32 Type B	316.84	9
9.15	10	10.21	21.27	30	33 Type B	325.99	9
9.08	10	10.21	21.27	30	34 Type B	335.07	9
9.02	10	10.21	21.27	30	35 Type B	344.09	9
9.01	10	10.21	21.27	30	36 Type B	353.1	9
8.99	10	10.21	21.27	30	37 Type B	362.09	9
8.99	10	10.21	21.27	30	38 Type B	371.08	9
8.96	10	10.21	21.27	30	39 Type B	380.04	9
8.95	10	10.21	21.27	30	40 Type B	388.99	9
8.91	10	10.21	21.27	30	41 Type B	397.9	9
8.89	10	10.21	21.27	30	42 Type B	406.79	9
8.84	10	10.21	21.27	30	43 Type B	415.63	9
8.75	10	10.21	21.27	30	44 Type B	424.38	9
8.7	10	10.21	21.27	30	45 Type B	433.08	9
8.67	10	10.21	21.27	30	46 Type B	441.75	9
8.65	10	10.21	21.27	30	47 Type B	450.4	9
8.64	10	10.21	21.27	30	48 Type B	459.04	9
8.64	10	10.21	21.27	30	49 Type B	467.68	9
8.59	10	10.21	21.27	30	50 Type B	476.27	9
8.53	10	10.21	21.27	30	51 Type B	484.8	9
8.52	10	10.21	21.27	30	52 Type B	493.32	9
8.51	10	10.21	21.27	30	53 Type B	501.83	9
8.51	10	10.21	21.27	30	54 Type B	510.34	9
8.5	10	10.21	21.27	30	55 Type B	518.84	9
8.48	10	10.21	21.27	30	56 Type B	527.32	8

8.47	10	10.21	21.27	30	57 Type B	535.79	8
8.43	10	10.21	21.27	30	58 Type B	544.22	8
8.31	10	10.21	21.27	30	59 Type B	552.53	8
8.31	10	10.21	21.27	30	60 Type B	560.84	8
8.29	10	10.21	21.27	30	61 Type B	569.13	8
8.2	10	10.21	21.27	30	62 Type B	577.33	8
8.19	10	10.21	21.27	30	63 Type B	585.52	8
8.16	10	10.21	21.27	30	64 Type B	593.68	8
8.13	10	10.21	21.27	30	65 Type B	601.81	8
8.11	10	10.21	21.27	30	66 Type B	609.92	8
8.11	10	10.21	21.27	30	67 Type B	618.03	8
8.1	10	10.21	21.27	30	68 Type B	626.13	8
8.02	10	10.21	21.27	30	69 Type B	634.15	8
8	10	10.21	21.27	30	70 Type B	642.15	8
7.97	10	10.21	21.27	30	71 Type B	650.12	8
7.93	10	10.21	21.27	30	72 Type B	658.05	8
7.92	10	10.21	21.27	30	73 Type B	665.97	8
7.92	10	10.21	21.27	30	74 Type B	673.89	8
7.9	10	10.21	21.27	30	75 Type B	681.79	8
7.88	10	10.21	21.27	30	76 Type B	689.67	8
7.85	10	10.21	21.27	30	77 Type B	697.52	8
7.83	10	10.21	21.27	30	78 Type B	705.35	8
7.81	10	10.21	21.27	30	79 Type B	713.16	8
7.81	10	10.21	21.27	30	80 Type B	720.97	8
7.8	10	10.21	21.27	30	81 Type B	728.77	8
7.8	10	10.21	21.27	30	82 Type B	736.57	8
7.69	10	10.21	21.27	30	83 Type B	744.26	8
7.67	10	10.21	21.27	30	84 Type B	751.93	8
7.6	10	10.21	21.27	30	85 Type B	759.53	8
7.51	10	10.21	21.27	30	86 Type B	767.04	8
7.49	10	10.21	21.27	30	87 Type B	774.53	7
7.49	10	10.21	21.27	30	88 Type B	782.02	7
7.48	10	10.21	21.27	30	89 Type B	789.5	7
7.46	10	10.21	21.27	30	90 Type B	796.96	7
7.26	10	10.21	21.27	30	91 Type B	804.22	7
7.19	10	10.21	21.27	30	92 Type B	811.41	7
7.18	10	10.21	21.27	30	93 Type B	818.59	7
7.17	10	10.21	21.27	30	94 Type B	825.76	7
7.12	10	10.21	21.27	30	95 Type B	832.88	7
7.1	10	10.21	21.27	30	96 Type B	839.98	7
7.05	10	10.21	21.27	30	97 Type B	847.03	7
6.99	10	10.21	21.27	30	98 Type B	854.02	7
6.88	10	10.21	21.27	30	99 Type B	860.9	7
6.83	10	10.21	21.27	30	100 Type B	867.73	7
6.76	10	10.21	21.27	30	101 Type B	874.49	7
6.7	10	10.21	21.27	30	102 Type B	881.19	7
6.69	10	10.21	21.27	30	103 Type B	887.88	7
6.68	10	10.21	21.27	30	104 Type B	894.56	7
6.55	10	10.21	21.27	30	105 Type B	901.11	7
6.52	10	10.21	21.27	30	106 Type B	907.63	7
6.49	10	10.21	21.27	30	107 Type B	914.12	6
6.36	10	10.21	21.27	30	108 Type B	920.48	6
6.26	10	10.21	21.27	30	109 Type B	926.74	6
6.22	10	10.21	21.27	30	110 Type B	932.96	6
6.21	10	10.21	21.27	30	111 Type B	939.17	6
6.2	10	10.21	21.27	30	112 Type B	945.37	6
6.09	10	10.21	21.27	30	113 Type B	951.46	6
6.05	10	10.21	21.27	30	114 Type B	957.51	6
6.05	10	10.21	21.27	30	115 Type B	963.56	6
6.05	10	10.21	21.27	30	116 Type B	969.61	6
6.03	10	10.21	21.27	30	117 Type B	975.64	6
6	10	10.21	21.27	30	118 Type B	981.64	6
5.99	10	10.21	21.27	30	119 Type B	987.63	6
5.85	10	10.21	21.27	30	120 Type B	993.48	6
5.79	10	10.21	21.27	30	121 Type B	999.27	6
5.76	10	10.21	21.27	30	122 Type B	1005.03	6
5.69	10	10.21	21.27	30	123 Type B	1010.72	6
5.66	10	10.21	21.27	30	124 Type B	1016.38	6
5.63	10	10.21	21.27	30	125 Type B	1022.01	6
5.51	10	10.21	21.27	30	126 Type B	1027.52	6
5.51	10	10.21	21.27	30	127 Type B	1033.03	6
5.5	10	10.21	21.27	30	128 Type B	1038.53	6
5.45	10	10.21	21.27	30	129 Type B	1043.98	5
5.42	10	10.21	21.27	30	130 Type B	1049.4	5
5.39	10	10.21	21.27	30	131 Type B	1054.79	5
5.36	10	10.21	21.27	30	132 Type B	1060.15	5
5.35	10	10.21	21.27	30	133 Type B	1065.5	5
5.34	10	10.21	21.27	30	134 Type B	1070.84	5
5.32	10	10.21	21.27	30	135 Type B	1076.16	5
5.29	10	10.21	21.27	30	136 Type B	1081.45	5
5.22	10	10.21	21.27	30	137 Type B	1086.67	5
5.1	10	10.21	21.27	30	138 Type B	1091.77	5
5.06	10	10.21	21.27	30	139 Type B	1096.83	5
4.96	10	10.21	21.27	30	140 Type B	1101.79	5
4.96	10	10.21	21.27	30	141 Type B	1106.75	5
4.95	10	10.21	21.27	30	142 Type B	1111.7	5
4.93	10	10.21	21.27	30	143 Type B	1116.63	5

4.93	10	10.21	21.27	30	144 Type B	1121.56	5
4.87	10	10.21	21.27	30	145 Type B	1126.43	5
4.87	10	10.21	21.27	30	146 Type B	1131.3	5
4.81	10	10.21	21.27	30	147 Type B	1136.11	5
4.8	10	10.21	21.27	30	148 Type B	1140.91	5
4.7	10	10.21	21.27	30	149 Type B	1145.61	5
4.66	10	10.21	21.27	30	150 Type B	1150.27	5
4.6	10	10.21	21.27	30	151 Type B	1154.87	5
4.59	10	10.21	21.27	30	152 Type B	1159.46	5
4.55	10	10.21	21.27	30	153 Type B	1164.01	5
4.53	10	10.21	21.27	30	154 Type B	1168.54	5
4.43	10	10.21	21.27	30	155 Type B	1172.97	4
4.33	10	10.21	21.27	30	156 Type B	1177.3	4
4.23	10	10.21	21.27	30	157 Type B	1181.53	4
4.22	10	10.21	21.27	30	158 Type B	1185.75	4
4.16	10	10.21	21.27	30	159 Type B	1189.91	4
4.14	10	10.21	21.27	30	160 Type B	1194.05	4
4.08	10	10.21	21.27	30	161 Type B	1198.13	4
4.06	10	10.21	21.27	30	162 Type B	1202.19	4
4.06	10	10.21	21.27	30	163 Type B	1206.25	4
4.05	10	10.21	21.27	30	164 Type B	1210.3	4
3.99	10	10.21	21.27	30	165 Type B	1214.29	4
3.91	10	10.21	21.27	30	166 Type B	1218.2	4
3.9	10	10.21	21.27	30	167 Type B	1222.1	4
3.9	10	10.21	21.27	30	168 Type B	1226	4
3.84	10	10.21	21.27	30	169 Type B	1229.84	4
3.79	10	10.21	21.27	30	170 Type B	1233.63	4
3.74	10	10.21	21.27	30	171 Type B	1237.37	4
3.73	10	10.21	21.27	30	172 Type B	1241.1	4
3.53	10	10.21	21.27	30	173 Type B	1244.63	4
3.28	10	10.21	21.27	30	174 Type B	1247.91	3
3.02	10	10.21	21.27	30	175 Type B	1250.93	3
2.82	10	10.21	21.27	30	176 Type B	1253.75	3
2.81	10	10.21	21.27	30	177 Type B	1256.56	3
2.73	10	10.21	21.27	30	178 Type B	1259.29	3

APPENDIX M: Experimental Data – Bench Scale Particle Attrition Tester

This Appendix contains all the raw data and calculations used to analyse the particle attrition behaviour across all material types in the experimental programme. The data is arranged by material type.

M.1 Carbolux SK

M.1.1 Carbolux SK Breakage matrix

Material	Batch	Bucket ID	Repetition	Impact Velocity	Impact Angle	Virgin Sample Mass	Mass into Sieves	Sieve	Mass Retained	Mass Collected	Percent Mass Retained	Virgin PSD	Change	Normal Impact Velocity	Tangential Impact Velocity
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	2800	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	2000	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	1400	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	1000	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	710	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	500	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	355	29.18	65.92	0	0.442657767	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	250	36.03	65.92	0	0.546571602	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	180	0.71	65.92	0	0.010770631	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	125	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	90	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	63	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	45	0	65.92	0	0	0			
Carbolux	250-355	B1	1	Virgin	Virgin	65.94	0	0	65.92	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	2800	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	2000	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	1400	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	1000	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	710	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	500	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	355	10.78	30.6	0	0.352287582	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	250	19.34	30.6	0	0.632026144	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	180	0.48	30.6	0	0.015686275	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	125	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	90	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	63	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	45	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	0	0	30.6	0	0	0			
Carbolux	250-355	B1	2	Virgin	Virgin	30.6	0	0	30.6	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	2800	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	2000	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	1400	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	1000	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	710	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	500	0.03	41.79	0	0.000717875	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	355	14.39	41.79	0	0.344340751	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	250	26.83	41.79	0	0.642019622	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	180	0.54	41.79	0	0.012921752	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	125	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	90	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	63	0	41.79	0	0	0			
Carbolux	250-355	B1	3	Virgin	Virgin	41.79	45	0	41.79	0	0	0			

Carbolux 250-355 B1	15	90	32.42	29.88	0	29.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	9.18861E-16
Carbolux 250-355 B1	20	90	34.22	31.66	2800	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	2000	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	1400	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	1000	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	710	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	500	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	355	31.68	10.22	0.327260101	0.333858369	0.000239292	0.000239292	-0.000239292	-0.011257359	0.333858369	0.000239292	0.000239292	0.000239292	-0.011257359	0.333858369	0.000239292	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	250	31.68	20.52	0.647727273	0.651148213	0.651148213	0.00342094	-0.00342094	0.651148213	0.00342094	0.651148213	0.00342094	-0.00342094	0.651148213	0.00342094	20	1.22515E-15	
Carbolux 250-355 B1	20	90	34.22	31.66	180	31.68	0.88	0.027777778	0.014754126	0.014754126	0.014754126	0.013023652	0.014754126	0.014754126	0.014754126	0.014754126	0.013023652	0.014754126	0.014754126	20	1.22515E-15	
Carbolux 250-355 B1	20	90	34.22	31.66	125	31.68	0.06	0.001893939	0	0	0	0.001893939	0.001893939	0	0.001893939	0	0.001893939	0.001893939	0	0.001893939	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	90	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	63	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	45	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	20	90	34.22	31.66	0	31.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux 250-355 B1	25	90	35.58	33.53	2800	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	2000	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	1400	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	1000	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	710	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	500	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	355	33.46	10.48	0.313209803	0.333858369	0.000239292	-0.000239292	-0.000239292	0.313209803	0.000239292	0.313209803	-0.000239292	-0.000239292	0.313209803	0.000239292	25	1.53144E-15	
Carbolux 250-355 B1	25	90	35.58	33.53	250	33.46	21.59	0.645248057	0.651148213	0.651148213	-0.005900155	-0.005900155	0.645248057	0.005900155	0.645248057	-0.005900155	-0.005900155	0.645248057	0.005900155	25	1.53144E-15	
Carbolux 250-355 B1	25	90	35.58	33.53	180	33.46	1.29	0.038553497	0.014754126	0.014754126	0.023799371	0.023799371	0.038553497	0.023799371	0.038553497	0.023799371	0.023799371	0.038553497	0.023799371	25	1.53144E-15	
Carbolux 250-355 B1	25	90	35.58	33.53	125	33.46	0.1	0.002988643	0	0	0	0.002988643	0.002988643	0.002988643	0	0.002988643	0.002988643	0.002988643	0	0.002988643	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	90	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	63	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	45	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	25	90	35.58	33.53	0	33.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux 250-355 B1	30	90	37.85	35.59	2800	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	2000	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	1400	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	1000	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	710	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	500	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	355	35.56	10.7	0.300899888	0.333858369	0.000239292	-0.000239292	-0.000239292	0.300899888	0.000239292	0.300899888	-0.000239292	-0.000239292	0.300899888	0.000239292	30	1.83772E-15	
Carbolux 250-355 B1	30	90	37.85	35.59	250	35.56	22.75	0.63976378	0.651148213	0.651148213	-0.011384433	-0.011384433	0.63976378	0.011384433	0.63976378	-0.011384433	-0.011384433	0.63976378	0.011384433	30	1.83772E-15	
Carbolux 250-355 B1	30	90	37.85	35.59	180	35.56	1.86	0.052305962	0.014754126	0.014754126	0.037551836	0.037551836	0.052305962	0.037551836	0.052305962	0.037551836	0.037551836	0.052305962	0.037551836	30	1.83772E-15	
Carbolux 250-355 B1	30	90	37.85	35.59	125	35.56	0.21	0.005905512	0	0	0	0.005905512	0.005905512	0.005905512	0	0.005905512	0.005905512	0.005905512	0	0.005905512	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	90	35.56	0.04	0.001124859	0	0	0	0.001124859	0.001124859	0.001124859	0	0.001124859	0.001124859	0.001124859	0	0.001124859	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	63	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	30	90	37.85	35.59	45	35.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15

Carbolux 250-355 B1	30	90	37.85	35.59	0	0	35.56	0	0	0	0	0	30	1.83772E-15
Carbolux 250-355 B1	35	90	43.11	40.86	2800	0	40.8	0	0	0	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	2000	0	40.8	0	0	0	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	1400	0	40.8	0	0	0	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	1000	0	40.8	0	0	0	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	710	0	40.8	0	0	0	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	500	0	40.8	0	0.000239292	-0.000239292	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	355	11.37	40.8	0.278676471	0.333858369	-0.055181899	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	250	26.18	40.8	0.641666667	0.651148213	-0.009481546	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	180	2.71	40.8	0.066421569	0.014754126	0.051667443	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	125	0.46	40.8	0.01127451	0	0.01127451	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	90	0.06	40.8	0.001470588	0	0.001470588	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	63	0.02	40.8	0.000490196	0	0.000490196	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	45	0	40.8	0	0	0	0	0	35	2.14401E-15
Carbolux 250-355 B1	35	90	43.11	40.86	0	0	40.8	0	0	0	0	0	35	2.14401E-15
Carbolux 250-355 B1	10	45	35.18	32.63	2800	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	2000	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	1400	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	1000	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	710	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	500	0	32.59	0	0.000239292	-0.000239292	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	355	10.9	32.59	0.334458423	0.333858369	0.000600053	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	250	21.16	32.59	0.64927892	0.651148213	-0.001869293	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	180	0.53	32.59	0.016262657	0.014754126	0.001508531	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	125	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	90	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	63	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	45	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	10	45	35.18	32.63	0	0	32.59	0	0	0	0	0	7.071067812	7.071067812
Carbolux 250-355 B1	15	45	35.32	32.72	2800	0	32.74	0	0	0	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	2000	0	32.74	0	0	0	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	1400	0	32.74	0	0	0	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	1000	0	32.74	0	0	0	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	710	0	32.74	0	0	0	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	500	0	32.74	0	0.000239292	-0.000239292	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	355	10.6	32.74	0.323762981	0.333858369	-0.010095388	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	250	21.51	32.74	0.656994502	0.651148213	0.005846289	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	180	0.61	32.74	0.018631643	0.014754126	0.003877517	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	125	0.02	32.74	0.000610874	0	0.000610874	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	90	0	32.74	0	0	0	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	63	0	32.74	0	0	0	0	0	10.60660172	10.60660172
Carbolux 250-355 B1	15	45	35.32	32.72	45	0	32.74	0	0	0	0	0	10.60660172	10.60660172

Carbolux	250-355	B1	30	45	33.05	30.78	0	0	30.71	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344
Carbolux	250-355	B1	35	45	32.28	30.18	2800	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	2000	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	1400	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	1000	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	710	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	500	0	30.14	0	0.000239292	-0.000239292	-0.000239292	-0.000239292	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	355	8.16	30.14	0.270736563	0.333858369	-0.063121807	-0.063121807	-0.063121807	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	250	20.4	30.14	0.676841407	0.651148213	0.025693194	0.025693194	0.025693194	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	180	1.41	30.14	0.046781685	0.014754126	0.032027559	0.032027559	0.032027559	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	125	0.15	30.14	0.004976775	0	0.004976775	0.004976775	0.004976775	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	90	0.02	30.14	0.00066357	0	0.00066357	0.00066357	0.00066357	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	63	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	45	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	35	45	32.28	30.18	0	0	30.14	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	250-355	B1	10	30	34.66	32.05	2800	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	2000	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	1400	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	1000	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	710	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	500	0	31.99	0	0.000239292	-0.000239292	-0.000239292	-0.000239292	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	355	10.95	31.99	0.342294467	0.333858369	0.008436098	0.008436098	0.008436098	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	250	20.56	31.99	0.642700844	0.651148213	-0.008447369	-0.008447369	-0.008447369	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	180	0.48	31.99	0.015004689	0.014754126	0.000250563	0.000250563	0.000250563	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	125	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	90	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	63	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	45	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	10	30	34.66	32.05	0	0	31.99	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	250-355	B1	15	30	34.95	32.4	2800	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	2000	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	1400	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	1000	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	710	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	500	0	32.39	0	0.000239292	-0.000239292	-0.000239292	-0.000239292	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	355	10.55	32.39	0.325717814	0.333858369	-0.008140555	-0.008140555	-0.008140555	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	250	21.25	32.39	0.656066687	0.651148213	0.004918474	0.004918474	0.004918474	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	180	0.59	32.39	0.018215499	0.014754126	0.003461373	0.003461373	0.003461373	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	125	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	90	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	63	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	45	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	250-355	B1	15	30	34.95	32.4	0	0	32.39	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106

Carbolux 250-355 B1	15	30	34.95	32.4	0	0	32.39	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux 250-355 B1	20	30	30.88	28.39	2800	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	2000	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	1400	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	1000	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	710	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	500	0	28.33	0	0.000239292	-0.000239292	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	355	8.61	28.33	0.303918108	0.333858369	-0.029940261	0.021636821	0.00818975	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	250	19.06	28.33	0.672785034	0.651148213	0.021636821	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	180	0.65	28.33	0.022943876	0.014754126	0	0.000352983	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	125	0.01	28.33	0.000352983	0	0.000352983	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	90	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	63	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	45	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	20	30	30.88	28.39	0	0	28.33	0	0	0	0	0	0	0	10	17.32050808
Carbolux 250-355 B1	25	30	37.27	35.05	2800	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	2000	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	1400	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	1000	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	710	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	500	0	35.02	0	0.000239292	-0.000239292	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	355	10.99	35.02	0.313820674	0.333858369	-0.020037696	0.009617064	0.00856653	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	250	23.14	35.02	0.660765277	0.651148213	0.009617064	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	180	0.86	35.02	0.024557396	0.014754126	0.00980327	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	125	0.03	35.02	0.000856653	0	0.000856653	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	90	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	63	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	45	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	25	30	37.27	35.05	0	0	35.02	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 250-355 B1	30	30	35.9	33.58	2800	0	33.54	0	0	0	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	2000	0	33.54	0	0	0	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	1400	0	33.54	0	0	0	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	1000	0	33.54	0	0	0	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	710	0	33.54	0	0	0	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	500	0	33.54	0	0.000239292	-0.000239292	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	355	9.8	33.54	0.292188432	0.333858369	-0.041669938	0.025655603	0.001788909	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	250	22.7	33.54	0.676803816	0.651148213	0.025655603	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	180	0.98	33.54	0.029218843	0.014754126	0.014464717	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	125	0.06	33.54	0.001788909	0	0.001788909	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	90	0	33.54	0	0	0	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	63	0	33.54	0	0	0	0	0	0	0	15	25.98076211
Carbolux 250-355 B1	30	30	35.9	33.58	45	0	33.54	0	0	0	0	0	0	0	15	25.98076211

Carbolux	250-355	B1	30	30	35.9	33.58	0	0	33.54	0	0	0	0	0	15	25.98076211
Carbolux	250-355	B1	35	30	39.24	36.93	2800	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	2000	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	1400	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	1000	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	710	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	500	0	36.89	0	0.000239292	-0.000239292	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	355	13.16	36.89	0.356736243	0.333858369	0.022877873	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	250	22.34	36.89	0.605584169	0.651148213	-0.045564044	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	180	1.26	36.89	0.034155598	0.014754126	0.019401472	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	125	0.11	36.89	0.002981838	0	0.002981838	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	90	0.02	36.89	0.000542152	0	0.000542152	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	63	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	45	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	35	30	39.24	36.93	0	0	36.89	0	0	0	0	0	17.5	30.31088913
Carbolux	250-355	B1	10	20	36.19	33.75	2800	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	2000	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	1400	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	1000	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	710	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	500	0	33.74	0	0.000239292	-0.000239292	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	355	11.31	33.74	0.335210433	0.333858369	0.001352063	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	250	21.9	33.74	0.649081209	0.651148213	-0.002067004	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	180	0.53	33.74	0.015708358	0.014754126	0.000954232	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	125	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	90	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	63	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	45	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	10	20	36.19	33.75	0	0	33.74	0	0	0	0	0	3.420201433	9.396926208
Carbolux	250-355	B1	15	20	36.29	33.78	2800	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	2000	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	1400	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	1000	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	710	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	500	0	33.75	0	0.000239292	-0.000239292	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	355	10.8	33.75	0.32	0.333858369	-0.013858369	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	250	22.42	33.75	0.664296296	0.651148213	0.013148083	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	180	0.53	33.75	0.015703704	0.014754126	0.000949578	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	125	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	90	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	63	0	33.75	0	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	15	20	36.29	33.78	45	0	33.75	0	0	0	0	0	5.13030215	14.09538931

Carbolux	250-355	B1	15	20	20	36.29	33.78	0	0	33.75	0	0	0	0	5.13030215	14.09538931
Carbolux	250-355	B1	20	20	34.37	31.94	2800	0	0	31.96	0	0	0	0	6.840402867	18.79385242
Carbolux	250-355	B1	20	20	34.37	31.94	2000	0	0	31.96	0	0	0	0	6.840402867	18.79385242
Carbolux	250-355	B1	20	20	34.37	31.94	1400	0	0	31.96	0	0	0	0	6.840402867	18.79385242
Carbolux	250-355	B1	20	20	34.37	31.94	1000	0	0	31.96	0	0	0	0	6.840402867	18.79385242
Carbolux	250-355	B1	20	20	34.37	31.94	710	0	0	31.96	0	0	0	0	6.840402867	18.79385242
Carbolux	250-355	B1	20	20	34.37	31.94	500	0	0.000239292	31.96	0	0	-0.000239292	6.840402867	18.79385242	
Carbolux	250-355	B1	20	20	34.37	31.94	355	10.23	0.32008761	31.96	0.333858369	-0.01377076	6.840402867	18.79385242		
Carbolux	250-355	B1	20	20	34.37	31.94	250	21.18	0.662703379	31.96	0.651148213	0.011555166	6.840402867	18.79385242		
Carbolux	250-355	B1	20	20	34.37	31.94	180	0.53	0.016583229	31.96	0.014754126	0.001829103	6.840402867	18.79385242		
Carbolux	250-355	B1	20	20	34.37	31.94	125	0.02	0.000625782	31.96	0	0.000625782	6.840402867	18.79385242		
Carbolux	250-355	B1	20	20	34.37	31.94	90	0	0	31.96	0	0	6.840402867	18.79385242		
Carbolux	250-355	B1	20	20	34.37	31.94	63	0	0	31.96	0	0	6.840402867	18.79385242		
Carbolux	250-355	B1	20	20	34.37	31.94	45	0	0	31.96	0	0	6.840402867	18.79385242		
Carbolux	250-355	B1	20	20	34.37	31.94	0	0	0	31.96	0	0	6.840402867	18.79385242		
Carbolux	250-355	B1	25	20	31.34	29.1	2800	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	2000	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	1400	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	1000	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	710	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	500	0	0.000239292	29.1	0	-0.000239292	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	355	9.94	0.341580756	29.1	0.333858369	0.00772387	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	250	18.54	0.637113402	29.1	0.651148213	-0.014034811	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	180	0.62	0.021306842	29.1	0.014754126	0.006551716	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	125	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	90	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	63	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	45	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	25	20	31.34	29.1	0	0	0	29.1	0	0	8.550503583	23.49231552		
Carbolux	250-355	B1	30	20	33.68	31.43	2800	0	0	31.41	0	0	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	2000	0	0	31.41	0	0	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	1400	0	0	31.41	0	0	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	1000	0	0	31.41	0	0	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	710	0	0	31.41	0	0	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	500	0	0.000239292	31.41	0	-0.000239292	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	355	10.16	0.323463865	31.41	0.333858369	-0.010394504	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	250	20.5	0.652658389	31.41	0.651148213	0.001510176	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	180	0.71	0.022604266	31.41	0.014754126	0.00785014	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	125	0.04	0.00127348	31.41	0	0.00127348	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	90	0	0	31.41	0	0	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	63	0	0	31.41	0	0	10.2606043	28.19077862		
Carbolux	250-355	B1	30	20	33.68	31.43	45	0	0	31.41	0	0	10.2606043	28.19077862		

Carbolux	250-355	B1	30	20	33.68	31.43	0	0	31.41	0	0	0	0	0	10.2606043	28.19077862
Carbolux	250-355	B1	35	20	33.81	31.66	2800	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	2000	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	1400	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	1000	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	710	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	500	0	31.62	0	0.000239292	-0.000239292	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	355	10.02	31.62	0.316888046	0.333858369	-0.016970324	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	250	20.81	31.62	0.658127767	0.651148213	0.006979554	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	180	0.76	31.62	0.024035421	0.014754126	0.009281295	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	125	0.03	31.62	0.000948767	0	0.000948767	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	90	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	63	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	45	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	250-355	B1	35	20	33.81	31.66	0	0	31.62	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	2800	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	2000	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	1400	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	1000	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	710	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	500	1.94	80.36	0.024141364	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	355	75.57	80.36	0.94039323	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	250	2.64	80.36	0.032852165	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	180	0.21	80.36	0.00261324	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	125	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	90	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	63	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	45	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	1 Virgin	Virgin	80.41	80.41	0	0	80.36	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	2800	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	2000	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	1400	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	1000	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	710	0.03	56.38	0.000632104	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	500	2.38	56.38	0.042213551	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	355	52.41	56.38	0.929584959	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	250	1.41	56.38	0.025008868	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	180	0.15	56.38	0.002660518	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	125	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	90	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	63	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	355-500	B1	2 Virgin	Virgin	56.43	56.43	45	0	56.38	0	0	0	0	0	#VALUE!	#VALUE!

Carbolux	355-500	B1	2	Virgin	Virgin	56.43	0	56.38	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	2800	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	2000	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	1400	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	1000	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	710	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	500	64.13	2.82	0.043973179	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	355	64.13	59.4	0.926243568	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	250	64.13	1.76	0.027444254	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	180	64.13	0.15	0.002338999	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	125	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	90	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	63	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	45	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	3	Virgin	Virgin	64.14	0	64.13	0	0	#VALUE!	#VALUE!	6.12574E-16
Carbolux	355-500	B1	90			82.04	2800	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	2000	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	1400	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	1000	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	710	82	0	0.000177368	-0.000177368	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	500	82	2.68	0.032682927	0.036776031	-0.004093105	6.12574E-16
Carbolux	355-500	B1	90			82.04	355	82	76.27	0.930121951	0.932073919	-0.001951968	6.12574E-16
Carbolux	355-500	B1	90			82.04	250	82	2.76	0.033658537	0.028435096	0.005223441	6.12574E-16
Carbolux	355-500	B1	90			82.04	180	82	0.27	0.003292683	0.002537586	0.000755097	6.12574E-16
Carbolux	355-500	B1	90			82.04	125	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	90	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	63	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	45	82	0	0	0	0	6.12574E-16
Carbolux	355-500	B1	90			82.04	0	82	0.02	0.000243902	0	0.000243902	6.12574E-16
Carbolux	355-500	B1	15			85.28	2800	85.23	0	0	0	0	9.18861E-16
Carbolux	355-500	B1	15			85.28	2000	85.23	0	0	0	0	9.18861E-16
Carbolux	355-500	B1	15			85.28	1400	85.23	0	0	0	0	9.18861E-16
Carbolux	355-500	B1	15			85.28	1000	85.23	0	0	0	0	9.18861E-16
Carbolux	355-500	B1	15			85.28	710	85.23	0	0.000177368	-0.000177368	0	9.18861E-16
Carbolux	355-500	B1	15			85.28	500	85.23	2.92	0.034260237	0.036776031	-0.002515794	9.18861E-16
Carbolux	355-500	B1	15			85.28	355	85.23	78.56	0.921741171	0.932073919	-0.010332748	9.18861E-16
Carbolux	355-500	B1	15			85.28	250	85.23	3.25	0.038132113	0.028435096	0.009697017	9.18861E-16
Carbolux	355-500	B1	15			85.28	180	85.23	0.46	0.005397161	0.002537586	0.002859575	9.18861E-16
Carbolux	355-500	B1	15			85.28	125	85.23	0.01	0.00011733	0	0.00011733	9.18861E-16
Carbolux	355-500	B1	15			85.28	90	85.23	0	0	0	0	9.18861E-16
Carbolux	355-500	B1	15			85.28	63	85.23	0	0	0	0	9.18861E-16
Carbolux	355-500	B1	15			85.28	45	85.23	0.03	0.000351989	0	0.000351989	9.18861E-16

Carbolux	355-500	B1	15	90	87.44	85.28	0	85.23	0	0	0	0	0	0	0	0	0	0	15	9.18861E-16
Carbolux	355-500	B1	20	90	85.56	83.31	2800	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	2000	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	1400	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	1000	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	710	83.22	0	0.000177368	-0.000177368	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	500	83.22	2.8	0.033645758	0.036776031	-0.003130273	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	355	83.22	76.25	0.916246095	0.932073919	-0.015827824	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	250	83.22	3.28	0.039413602	0.028435096	0.010978507	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	180	83.22	0.8	0.009613074	0.002537586	0.007075488	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	125	83.22	0.09	0.001081471	0	0.001081471	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	90	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	63	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	45	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	20	90	85.56	83.31	0	83.22	0	0	0	0	0	0	0	0	0	0	20	1.22515E-15
Carbolux	355-500	B1	25	90	89.48	87.53	2800	87.56	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux	355-500	B1	25	90	89.48	87.53	2000	87.56	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux	355-500	B1	25	90	89.48	87.53	1400	87.56	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux	355-500	B1	25	90	89.48	87.53	1000	87.56	0	0	0	0	0	0	0	0	0	0	25	1.53144E-15
Carbolux	355-500	B1	25	90	89.48	87.53	710	87.56	0	0.000177368	-0.000177368	0	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	500	87.56	2.02	0.023069895	0.036776031	-0.013706136	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	355	87.56	78.52	0.89675651	0.932073919	-0.035317409	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	250	87.56	5.4	0.061671996	0.028435096	0.033236901	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	180	87.56	1.42	0.016217451	0.002537586	0.013679865	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	125	87.56	0.15	0.001713111	0	0.001713111	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	90	87.56	0.03	0.000342622	0	0.000342622	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	63	87.56	0.02	0.000228415	0	0.000228415	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	45	87.56	0	0	0	0	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	25	90	89.48	87.53	0	87.56	0	0	0	0	0	0	0	0	0	25	1.53144E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	2800	57.63	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux	355-500	B1	30	90	59.63	57.64	2000	57.63	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux	355-500	B1	30	90	59.63	57.64	1400	57.63	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux	355-500	B1	30	90	59.63	57.64	1000	57.63	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux	355-500	B1	30	90	59.63	57.64	710	57.63	0.02	0.000347041	0.000177368	0.000169674	0	0	0	0	0	30	1.83772E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	500	57.63	1.17	0.020301926	0.036776031	-0.016474105	0	0	0	0	0	30	1.83772E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	355	57.63	50.12	0.869685927	0.932073919	-0.062387992	0	0	0	0	0	30	1.83772E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	250	57.63	4.55	0.078951935	0.028435096	0.050516839	0	0	0	0	0	30	1.83772E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	180	57.63	1.53	0.026548673	0.002537586	0.024011087	0	0	0	0	0	30	1.83772E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	125	57.63	0.18	0.003123373	0	0.003123373	0	0	0	0	0	30	1.83772E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	90	57.63	0.06	0.001041124	0	0.001041124	0	0	0	0	0	30	1.83772E-15	
Carbolux	355-500	B1	30	90	59.63	57.64	63	57.63	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux	355-500	B1	30	90	59.63	57.64	45	57.63	0	0	0	0	0	0	0	0	0	0	30	1.83772E-15

Carbolux	355-500	B1	30	90	59.63	57.64	0	0	57.63	0	0	0	0	0	0	0	30	1.83772E-15
Carbolux	355-500	B1	35	90	57.6	55.54	2800	0	55.47	0	0	0	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	2000	0	55.47	0	0	0	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	1400	0	55.47	0	0	0	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	1000	0	55.47	0	0	0	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	710	0	55.47	0	0.000177368	-0.000177368	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	500	1.18	55.47	0.02127276	0.036776031	-0.015503271	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	355	46.27	55.47	0.834144583	0.932073919	-0.097929396	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	250	5.3	55.47	0.095547143	0.028435096	0.067112047	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	180	2.25	55.47	0.040562466	0.002537586	0.03802488	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	125	0.32	55.47	0.005768884	0	0.005768884	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	90	0.09	55.47	0.001622499	0	0.001622499	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	63	0.04	55.47	0.000721111	0	0.000721111	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	45	0	55.47	0	0	0	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	35	90	57.6	55.54	0	0.02	55.47	0.000360555	0	0.000360555	0	0	0	0	35	2.14401E-15
Carbolux	355-500	B1	10	45	62.4	60.15	2800	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	2000	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	1400	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	1000	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	710	0	60.11	0	0.000177368	-0.000177368	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	500	1.81	60.11	0.030111462	0.036776031	-0.006664569	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	355	56.02	60.11	0.931958077	0.932073919	-0.000115842	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	250	2.08	60.11	0.034603227	0.028435096	0.006168132	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	180	0.2	60.11	0.003327233	0.002537586	0.000789648	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	125	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	90	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	63	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	45	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	0	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	0	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	10	45	62.4	60.15	0	0	60.11	0	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux	355-500	B1	15	45	74.34	71.97	2800	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	2000	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	1400	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	1000	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	710	0	71.96	0	0.000177368	-0.000177368	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	500	2.3	71.96	0.031962201	0.036776031	-0.004813883	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	355	66.78	71.96	0.928015564	0.932073919	-0.004058355	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	250	2.58	71.96	0.035853252	0.028435096	0.007418156	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	180	0.3	71.96	0.004168983	0.002537586	0.001631397	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	125	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	90	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	63	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172
Carbolux	355-500	B1	15	45	74.34	71.97	45	0	71.96	0	0	0	0	0	0	0	10.60660172	10.60660172

Carboux	355-500	B1	15	45	74.34	71.97	0	0	71.96	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carboux	355-500	B1	20	45	67.21	64.77	2800	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	2000	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	1400	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	1000	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	710	0	64.77	0	0.000177368	-0.000177368	-0.000177368	-0.000177368	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	500	2.15	64.77	0.03319438	0.036776031	-0.003581651	-0.003581651	-0.003581651	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	355	59.35	64.77	0.916319284	0.932073919	-0.015754636	-0.015754636	-0.015754636	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	250	2.84	64.77	0.04384746	0.028435096	0.015412364	0.015412364	0.015412364	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	180	0.39	64.77	0.006021306	0.002537586	0.00348372	0.00348372	0.00348372	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	125	0.04	64.77	0.00061757	0	0.00061757	0.00061757	0.00061757	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	90	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	63	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	45	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	20	45	67.21	64.77	0	0	64.77	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carboux	355-500	B1	25	45	65.42	63.52	2800	0	63.51	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	2000	0	63.51	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	1400	0	63.51	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	1000	0	63.51	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	710	0	63.51	0	0.000177368	-0.000177368	-0.000177368	-0.000177368	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	500	1.79	63.51	0.028184538	0.036776031	-0.008591494	-0.008591494	-0.008591494	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	355	57.83	63.51	0.910565265	0.932073919	-0.021508654	-0.021508654	-0.021508654	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	250	3.18	63.51	0.050070855	0.028435096	0.021635759	0.021635759	0.021635759	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	180	0.63	63.51	0.009919698	0.002537586	0.007382112	0.007382112	0.007382112	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	125	0.07	63.51	0.001102189	0	0.001102189	0.001102189	0.001102189	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	90	0	63.51	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	63	0	63.51	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	45	0.01	63.51	0.000157456	0	0.000157456	0.000157456	0.000157456	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	25	45	65.42	63.52	0	0	63.51	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carboux	355-500	B1	30	45	64.48	62.39	2800	0	62.35	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	2000	0	62.35	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	1400	0	62.35	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	1000	0	62.35	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	710	0	62.35	0	0.000177368	-0.000177368	-0.000177368	-0.000177368	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	500	1.68	62.35	0.026944667	0.036776031	-0.009831364	-0.009831364	-0.009831364	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	355	55.78	62.35	0.894627105	0.932073919	-0.037446814	-0.037446814	-0.037446814	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	250	3.81	62.35	0.061106656	0.028435096	0.03267156	0.03267156	0.03267156	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	180	0.94	62.35	0.015076183	0.0002537586	0.012538597	0.012538597	0.012538597	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	125	0.09	62.35	0.001443464	0	0.001443464	0.001443464	0.001443464	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	90	0.05	62.35	0.000801925	0	0.000801925	0.000801925	0.000801925	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	63	0	62.35	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344
Carboux	355-500	B1	30	45	64.48	62.39	45	0	62.35	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344

Carbolux	355-500	B1	30	45	64.48	62.39	0	0	62.35	0	0	0	0	0	0	21.21320344	21.21320344	21.21320344	21.21320344
Carbolux	355-500	B1	35	45	62.37	60.24	2800	0	60.14	0	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	2000	0	60.14	0	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	1400	0	60.14	0	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	1000	0	60.14	0	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	710	0	60.14	0	0.000177368	-0.000177368	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	500	1.18	60.14	0.019620885	0.03676031	-0.017155147	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	355	52.84	60.14	0.878616561	0.932073919	-0.053457358	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	250	4.54	60.14	0.075490522	0.028435096	0.047055426	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	180	1.34	60.14	0.022281344	0.002537586	0.019743758	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	125	0.2	60.14	0.003325574	0	0.003325574	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	90	0.02	60.14	0.000332557	0	0.000332557	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	63	0.02	60.14	0.000332557	0	0.000332557	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	45	0	60.14	0	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	35	45	62.37	60.24	0	0	60.14	0	0	0	0	0	0	24.74873734	24.74873734	24.74873734	24.74873734
Carbolux	355-500	B1	10	30	68.5	66.17	2800	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	2000	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	1400	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	1000	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	710	0	66.14	0	0.000177368	-0.000177368	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	500	2.51	66.14	0.037949803	0.03676031	0.001173772	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	355	61.35	66.14	0.927577865	0.932073919	-0.004496054	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	250	2.08	66.14	0.031448443	0.028435096	0.003013347	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	180	0.2	66.14	0.003023889	0.002537586	0.000486303	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	125	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	90	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	63	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	45	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	10	30	68.5	66.17	0	0	66.14	0	0	0	0	0	0	8.660254038	8.660254038	8.660254038	8.660254038
Carbolux	355-500	B1	15	30	67.25	64.84	2800	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	2000	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	1400	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	1000	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	710	0	64.82	0	0.000177368	-0.000177368	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	500	2.26	64.82	0.034865782	0.03676031	-0.001910249	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	355	59.8	64.82	0.922554767	0.932073919	-0.009519152	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	250	2.53	64.82	0.039031163	0.028435096	0.010596067	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	180	0.23	64.82	0.003548288	0.002537586	0.001010702	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	125	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	90	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	63	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106
Carbolux	355-500	B1	15	30	67.25	64.84	45	0	64.82	0	0	0	0	0	0	12.99038106	12.99038106	12.99038106	12.99038106

Carbolux	355-500	B1	15	30	67.25	64.84	0	0	64.82	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	355-500	B1	20	30	64.88	62.58	2800	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	2000	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	1400	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	1000	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	710	0	62.55	0	0.000177368	-0.000177368	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	500	2.3	62.55	0.036770584	0.036776031	-5.44788E-06	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	355	57.63	62.55	0.921342926	0.932073919	-0.010730993	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	250	2.29	62.55	0.0366610711	0.028435096	0.008175616	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	180	0.3	62.55	0.004796163	0.002537586	0.002258577	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	125	0.03	62.55	0.000479616	0	0.000479616	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	90	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	63	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	45	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	20	30	64.88	62.58	0	0	62.55	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	355-500	B1	25	30	76.38	74.58	2800	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	2000	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	1400	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	1000	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	710	0	74.52	0	0.000177368	-0.000177368	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	500	2.44	74.52	0.032742888	0.036776031	-0.004033144	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	355	68.33	74.52	0.916935051	0.932073919	-0.015138868	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	250	3.16	74.52	0.042404724	0.028435096	0.013969628	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	180	0.54	74.52	0.007246377	0.002537586	0.004708791	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	125	0.05	74.52	0.000670961	0	0.000670961	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	90	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	63	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	45	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	25	30	76.38	74.58	0	0	74.52	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	355-500	B1	30	30	60.29	58.4	2800	0	58.32	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	2000	0	58.32	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	1400	0	58.32	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	1000	0	58.32	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	710	0	58.32	0	0.000177368	-0.000177368	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	500	2.14	58.32	0.036694102	0.036776031	-8.19299E-05	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	355	52.94	58.32	0.907750343	0.932073919	-0.024323576	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	250	2.63	58.32	0.045096022	0.028435096	0.016660926	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	180	0.57	58.32	0.009773663	0.002537586	0.007236077	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	125	0.04	58.32	0.0006685871	0	0.0006685871	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	90	0	58.32	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	63	0	58.32	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	30	30	60.29	58.4	45	0	58.32	0	0	0	0	0	0	0	0	15	25.98076211

Carbolux	355-500	B1	60.29	58.4	0	0	58.32	0	0	0	0	0	0	0	15	25.98076211
Carbolux	355-500	B1	57.48	55.27	2800	0	55.29	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	2000	0	55.29	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	1400	0	55.29	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	1000	0	55.29	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	710	0	55.29	0	0.000177368	-0.000177368	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	500	1.86	55.29	0.033640803	0.036776031	-0.033640803	-0.033640803	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	355	49.32	55.29	0.892023874	0.932073919	-0.040050045	-0.040050045	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	250	3.19	55.29	0.057695786	0.028435096	0.028435096	0.028435096	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	180	0.81	55.29	0.014650027	0.002537586	0.012112441	0.012112441	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	125	0.09	55.29	0.001627781	0	0.001627781	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	90	0.02	55.29	0.000361729	0	0.000361729	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	63	0	55.29	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	45	0	55.29	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	57.48	55.27	0	0	55.29	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux	355-500	B1	59.04	56.62	2800	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	2000	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	1400	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	1000	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	710	0.03	56.63	0.000529755	0.000177368	0.000352387	0.000352387	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	500	2.09	56.63	0.036906233	0.036776031	0.000130202	0.000130202	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	355	52.55	56.63	0.927953382	0.932073919	-0.004120538	-0.004120538	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	250	1.78	56.63	0.031432103	0.028435096	0.002997007	0.002997007	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	180	0.18	56.63	0.003178527	0.002537586	0.000640942	0.000640942	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	125	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	90	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	63	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	45	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	59.04	56.62	0	0	56.63	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	60.59	58.18	2800	0	58.13	0.029760881	0.036776031	-0.000177368	-0.000177368	0	0	0	3.420201433	9.396926208
Carbolux	355-500	B1	60.59	58.18	2000	0	58.13	0	0	0	0	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	1400	0	58.13	0	0	0	0	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	1000	0	58.13	0	0	0	0	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	710	0	58.13	0	0.000177368	-0.000177368	-0.000177368	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	500	1.73	58.13	0.029760881	0.036776031	-0.007015151	-0.007015151	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	355	54.09	58.13	0.930506062	0.932073919	-0.001573317	-0.001573317	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	250	2.12	58.13	0.036469981	0.028435096	0.008034885	0.008034885	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	180	0.19	58.13	0.003268536	0.002537586	0.00073095	0.00073095	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	125	0	58.13	0	0	0	0	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	90	0	58.13	0	0	0	0	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	63	0	58.13	0	0	0	0	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	60.59	58.18	45	0	58.13	0	0	0	0	0	0	0	5.13030215	14.09538931

Carbolux	355-500	B1	15	20	60.59	58.18	0	0	58.13	0	0	0	0	0	0	0	0	0	5.13030215	14.09538931
Carbolux	355-500	B1	20	20	55.73	53.34	2800	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	2000	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	1400	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	1000	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	710	0	53.35	0	0.000177368	-0.000177368	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	500	2.24	53.35	0.041986879	0.036776031	0.005210848	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	355	49.3	53.35	0.924086223	0.932073919	-0.007987696	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	250	1.61	53.35	0.030178069	0.028435096	0.001742974	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	180	0.2	53.35	0.003748828	0.002537586	0.001211243	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	125	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	90	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	63	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	45	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	20	20	55.73	53.34	0	0	53.35	0	0	0	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	355-500	B1	25	20	59.09	57.09	2800	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	2000	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	1400	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	1000	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	710	0	57.08	0	0.000177368	-0.000177368	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	500	2.18	57.08	0.0388192011	0.036776031	0.00141598	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	355	52.43	57.08	0.918535389	0.932073919	-0.01353853	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	250	2.18	57.08	0.0388192011	0.028435096	0.009756915	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	180	0.27	57.08	0.004730203	0.002537586	0.002192617	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	125	0.02	57.08	0.000350385	0	0.000350385	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	90	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	63	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	45	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	25	20	59.09	57.09	0	0	57.08	0	0	0	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	355-500	B1	30	20	56.69	54.85	2800	0	54.82	0	0	0	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	2000	0	54.82	0	0	0	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	1400	0	54.82	0	0	0	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	1000	0	54.82	0	0	0	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	710	0	54.82	0	0.000177368	-0.000177368	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	500	2.06	54.82	0.037577526	0.036776031	0.000801495	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	355	50.33	54.82	0.918095586	0.932073919	-0.013978334	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	250	2.1	54.82	0.038307187	0.028435096	0.009872091	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	180	0.31	54.82	0.005656487	0.002537586	0.003117285	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	125	0.02	54.82	0.00036483	0	0.00036483	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	90	0	54.82	0	0	0	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	63	0	54.82	0	0	0	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	30	20	56.69	54.85	45	0	54.82	0	0	0	0	0	0	0	0	0	10.2606043	28.19077862

Carbolux	355-500	B1	30	20	56.69	54.85	0	0	54.82	0	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	355-500	B1	35	20	68.27	66.31	2800	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	2000	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	1400	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	1000	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	710	0	66.32	0	0.000177368	-0.000177368	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	500	2.24	66.32	0.033775633	0.036776031	-0.030000398	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	355	60.44	66.32	0.911338963	0.932073919	-0.020734957	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	250	3.05	66.32	0.045989144	0.028435096	0.017554048	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	180	0.52	66.32	0.007840772	0.002537586	0.005303186	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	125	0.07	66.32	0.001055489	0	0.001055489	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	90	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	63	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	45	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	355-500	B1	35	20	68.27	66.31	0	0	66.32	0	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	2800	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	2000	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	1400	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	1000	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	710	3.62	81.19	0.044586772	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	500	67.81	81.19	0.835201379	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	355	9.59	81.19	0.118117995	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	250	0.14	81.19	0.00172435	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	180	0.03	81.19	0.000369504	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	125	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	90	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	63	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	45	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	1 Virgin	Virgin	81.21	81.21	0	0	81.19	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	2800	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	2000	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	1400	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	1000	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	710	3.06	67	0.045671642	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	500	55.03	67	0.821343284	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	355	8.75	67	0.130597015	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	250	0.13	67	0.001940299	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	180	0.03	67	0.000447761	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	125	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	90	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	63	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	500-710	B1	2 Virgin	Virgin	66.99	66.99	45	0	67	0	0	0	0	0	0	0	#VALUE!	#VALUE!

Carbolux 500-710 B1	2 Virgin	Virgin	66.99	0	66.99	0	67	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	2800	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	2000	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	1400	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	1000	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	710	62.43	3.43	62.39	0.054976759	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	500	62.43	51.37	62.39	0.82336913	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	355	62.43	7.47	62.39	0.119730726	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	250	62.43	0.09	62.39	0.001442539	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	180	62.43	0.03	62.39	0.000480846	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	125	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	90	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	63	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	45	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	3 Virgin	Virgin	62.43	0	62.43	0	62.39	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	2800	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	2000	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	1400	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	1000	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	710	73.28	2.85	73.26	0.038902539	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	500	73.28	59.59	73.26	0.813404313	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	355	73.28	10.64	73.26	0.145236145	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	250	73.28	0.14	73.26	0.001911002	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	180	73.28	0.04	73.26	0.000546001	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	125	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	90	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	63	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	45	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	4 Virgin	Virgin	73.28	0	73.28	0	73.26	0	#VALUE!	#VALUE!
Carbolux 500-710 B1	90	Virgin	60.17	2800	58.41	0	58.39	0	0	6.12574E-16
Carbolux 500-710 B1	90	Virgin	60.17	2000	58.41	0	58.39	0	0	6.12574E-16
Carbolux 500-710 B1	90	Virgin	60.17	1400	58.41	0	58.39	0	0	6.12574E-16
Carbolux 500-710 B1	90	Virgin	60.17	1000	58.41	0	58.39	0	0	6.12574E-16
Carbolux 500-710 B1	90	Virgin	60.17	710	58.41	3.4	58.39	0.058229149	0.046034428	0.012194721
Carbolux 500-710 B1	90	Virgin	60.17	500	58.41	47.03	58.39	0.805446138	0.823329527	-0.017883388
Carbolux 500-710 B1	90	Virgin	60.17	355	58.41	7.76	58.39	0.132899469	0.12842047	0.004478999
Carbolux 500-710 B1	90	Virgin	60.17	250	58.41	0.15	58.39	0.002568933	0.001754547	0.000814386
Carbolux 500-710 B1	90	Virgin	60.17	180	58.41	0.05	58.39	0.000856311	0.000461028	0.000395283
Carbolux 500-710 B1	90	Virgin	60.17	125	58.41	0	58.39	0	0	6.12574E-16
Carbolux 500-710 B1	90	Virgin	60.17	90	58.41	0	58.39	0	0	6.12574E-16
Carbolux 500-710 B1	90	Virgin	60.17	63	58.41	0	58.39	0	0	6.12574E-16
Carbolux 500-710 B1	90	Virgin	60.17	45	58.41	0	58.39	0	0	6.12574E-16

Carbolux	500-710	B1	10	90	60.17	58.41	0	0	58.39	0	0	0	0	0	0	10	6.12574E-16
Carbolux	500-710	B1	15	90	61.99	60.07	2800	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	2000	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	1400	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	1000	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	710	2.34	60.04	0.038974017	0.046034428	-0.007060411				15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	500	45.49	60.04	0.757661559	0.823329527	-0.065667968				15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	355	11.67	60.04	0.19437042	0.12842047	0.065949949				15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	250	0.42	60.04	0.006995336	0.001754547	0.005240789				15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	180	0.12	60.04	0.001998668	0.0000461028	0.00153764				15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	125	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	90	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	63	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	45	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	15	90	61.99	60.07	0	0	60.04	0	0	0	0	0	0	15	9.18861E-16
Carbolux	500-710	B1	20	90	60.86	58.94	2800	0	58.93	0	0	0	0	0	0	20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	2000	0	58.93	0	0	0	0	0	0	20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	1400	0	58.93	0	0	0	0	0	0	20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	1000	0	58.93	0	0	0	0	0	0	20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	710	2.46	58.93	0.041744443	0.046034428	-0.004289985				20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	500	40.45	58.93	0.686407602	0.823329527	-0.136921924				20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	355	14.87	58.93	0.252333277	0.12842047	0.123912807				20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	250	0.84	58.93	0.0142542	0.001754547	0.012499653				20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	180	0.21	58.93	0.00356355	0.000461028	0.003102522				20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	125	0.07	58.93	0.00118785	0	0.00118785				20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	90	0.03	58.93	0.000509079	0	0.000509079				20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	63	0	58.93	0	0	0	0	0	0	20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	45	0	58.93	0	0	0	0	0	0	20	1.22515E-15
Carbolux	500-710	B1	20	90	60.86	58.94	0	0	58.93	0	0	0	0	0	0	20	1.22515E-15
Carbolux	500-710	B1	25	90	53.46	51.85	2800	0	51.78	0	0	0	0	0	0	25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	2000	0	51.78	0	0	0	0	0	0	25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	1400	0	51.78	0	0	0	0	0	0	25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	1000	0	51.78	0	0	0	0	0	0	25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	710	1.92	51.78	0.037079954	0.046034428	-0.008954474				25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	500	31.95	51.78	0.617033604	0.823329527	-0.206295923				25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	355	16.06	51.78	0.310158362	0.12842047	0.181737892				25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	250	1.3	51.78	0.025106219	0.001754547	0.023351671				25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	180	0.41	51.78	0.007918115	0.000461028	0.007457087				25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	125	0.1	51.78	0.001931248	0	0.001931248				25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	90	0.04	51.78	0.000772499	0	0.000772499				25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	63	0	51.78	0	0	0	0	0	0	25	1.53144E-15
Carbolux	500-710	B1	25	90	53.46	51.85	45	0	51.78	0	0	0	0	0	0	25	1.53144E-15

Carbolux 500-710 B1	25	90	53.46	51.85	0	0	51.78	0	0	0	0	0	0	25	1.53144E-15
Carbolux 500-710 B1	30	90	70.93	69.36	2800	0	69.32	0	0	0	0	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	2000	0	69.32	0	0	0	0	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	1400	0	69.32	0	0	0	0	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	1000	0	69.32	0	0	0	0	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	710	1.84	69.32	0.0265453566	0.046034428	-0.019490862	0.012955014	0.000461028	0.000461028	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	500	37.98	69.32	0.547893826	0.823329527	-0.275435701	0.001298327	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	355	25.29	69.32	0.364829775	0.12842047	0.236409305	0.00100981	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	250	2.81	69.32	0.040536642	0.001754547	0.038782094	0.000288517	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	180	0.93	69.32	0.013416042	0.000461028	0.012955014	0.004183497	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	125	0.29	69.32	0.004183497	0	0.004183497	0.001298327	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	90	0.09	69.32	0.001298327	0	0.001298327	0.00100981	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	63	0.07	69.32	0.00100981	0	0.00100981	0.000288517	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	45	0.02	69.32	0.000288517	0	0.000288517	0	0	0	30	1.83772E-15
Carbolux 500-710 B1	30	90	70.93	69.36	0	0	69.32	0	0	0	0	0	0	30	1.83772E-15
Carbolux 500-710 B1	35	90	56.74	55.14	2800	0	55.09	0	0	0	0	0	0	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	2000	0	55.09	0	0	0	0	0	0	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	1400	0	55.09	0	0	0	0	0	0	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	1000	0	55.09	0	0	0	0	0	0	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	710	1.47	55.09	0.026683609	0.046034428	-0.019350819	0.0440551824	0.823329527	-0.382777702	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	500	24.27	55.09	0.440551824	0.823329527	-0.382777702	0.440733345	0.12842047	0.312312875	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	355	24.28	55.09	0.440733345	0.12842047	0.312312875	0.057723725	0.001754547	0.055969177	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	250	3.18	55.09	0.057723725	0.001754547	0.055969177	0.022508622	0.000461028	0.022047594	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	180	1.24	55.09	0.022508622	0.000461028	0.022047594	0.007079325	0	0.007079325	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	125	0.39	55.09	0.007079325	0	0.007079325	0.002541296	0	0.002541296	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	90	0.14	55.09	0.002541296	0	0.002541296	0.001452169	0	0.001452169	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	63	0.08	55.09	0.001452169	0	0.001452169	0.000544563	0	0.000544563	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	45	0.03	55.09	0.000544563	0	0.000544563	0.000181521	0	0.000181521	35	2.14401E-15
Carbolux 500-710 B1	35	90	56.74	55.14	0	0.01	55.09	0.000181521	0	0.000181521	0	0	0	35	2.14401E-15
Carbolux 500-710 B1	10	45	58.96	57.15	2800	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	2000	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	1400	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	1000	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	710	2.57	57.12	0.044992997	0.046034428	-0.001041431	0.805147059	0.823329527	-0.018182468	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	500	45.99	57.12	0.805147059	0.823329527	-0.018182468	0.146533613	0.12842047	0.0181113143	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	355	8.37	57.12	0.146533613	0.12842047	0.0181113143	0.00262605	0.001754547	0.000871503	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	250	0.15	57.12	0.00262605	0.001754547	0.000871503	0.00070028	0.000461028	0.000239252	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	180	0.04	57.12	0.00070028	0.000461028	0.000239252	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	125	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	90	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	63	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	45	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812
Carbolux 500-710 B1	10	45	58.96	57.15	45	0	57.12	0	0	0	0	0	0	7.071067812	7.071067812

Carbolux	500-710	B1	10	45	58.96	57.15	0	0	57.12	0	0	0	0	0	7.071067812	7.071067812	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	2800	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	2000	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	1400	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	1000	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	710	2.36	64.07	0.036834712	0.046034428	-0.009199716	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	500	50.02	64.07	0.7807086	0.823329527	-0.042620927	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	355	11.3	64.07	0.176369596	0.12842047	0.047949125	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	250	0.3	64.07	0.004682379	0.001754547	0.002927831	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	180	0.09	64.07	0.001404714	0.0000461028	0.000943686	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	125	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	90	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	63	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	45	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	15	45	66.08	64.1	0	0	64.07	0	0	0	0	0	10.60660172	10.60660172	10.60660172	10.60660172
Carbolux	500-710	B1	20	45	52.48	50.56	2800	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	2000	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	1400	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	1000	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	710	1.8	50.48	0.035657686	0.046034428	-0.010376742	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	500	36.75	50.48	0.728011094	0.823329527	-0.095318433	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	355	11.33	50.48	0.224445325	0.12842047	0.096024855	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	250	0.45	50.48	0.008914422	0.001754547	0.007159874	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	180	0.12	50.48	0.002377179	0.000461028	0.001916151	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	125	0.03	50.48	0.000594295	0	0.000594295	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	90	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	63	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	45	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	20	45	52.48	50.56	0	0	50.48	0	0	0	0	0	14.14213562	14.14213562	14.14213562	14.14213562
Carbolux	500-710	B1	25	45	66.89	65.26	2800	0	65.19	0.263997546	0.12842047	0.135577075	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	2000	0	65.19	0.015799969	0.001754547	0.014045422	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	1400	0	65.19	0.004448535	0.000461028	0.003987507	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	1000	0	65.19	0.001227182	0	0.001227182	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	710	2.38	65.19	0.036508667	0.046034428	-0.009525761	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	500	44.18	65.19	0.677711305	0.823329527	-0.145618221	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	355	17.21	65.19	0.263997546	0.12842047	0.135577075	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	250	1.03	65.19	0.015799969	0.001754547	0.014045422	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	180	0.29	65.19	0.004448535	0.000461028	0.003987507	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	125	0.08	65.19	0.001227182	0	0.001227182	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	90	0.02	65.19	0.000306796	0	0.000306796	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	63	0	65.19	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953
Carbolux	500-710	B1	25	45	66.89	65.26	45	0	65.19	0	0	0	0	0	17.67766953	17.67766953	17.67766953	17.67766953

Carbolux	500-710	B1	25	45	66.89	65.26	0	0	65.19	0	0	0	0	0	17.67766953	17.67766953
Carbolux	500-710	B1	30	45	56.58	54.98	2800	0	54.65	0	0	0	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	2000	0	54.65	0	0	0	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	1400	0	54.65	0	0	0	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	1000	0	54.65	0	0	0	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	710	1.61	54.65	0.029460201	0.046034428	-0.016574227	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	500	33.43	54.65	0.611710887	0.823329527	-0.211618639	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	355	17.87	54.65	0.326989936	0.12842047	0.198569466	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	250	1.4	54.65	0.025617566	0.001754547	0.023863019	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	180	0.2	54.65	0.003659652	0.000461028	0.003198624	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	125	0.11	54.65	0.002012809	0	0.002012809	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	90	0.03	54.65	0.000548948	0	0.000548948	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	63	0	54.65	0	0	0	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	45	0	54.65	0	0	0	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	30	45	56.58	54.98	0	0	54.65	0	0	0	0	0	21.21320344	21.21320344
Carbolux	500-710	B1	35	45	67.01	65.18	2800	0	65.1	0	0	0	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	2000	0	65.1	0	0	0	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	1400	0	65.1	0	0	0	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	1000	0	65.1	0	0	0	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	710	1.94	65.1	0.029800307	0.046034428	-0.016234121	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	500	37.21	65.1	0.571582181	0.823329527	-0.251747345	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	355	22.49	65.1	0.34546851	0.12842047	0.21704804	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	250	2.3	65.1	0.035330261	0.001754547	0.033575714	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	180	0.78	65.1	0.011981567	0.000461028	0.011520539	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	125	0.23	65.1	0.003533026	0	0.003533026	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	90	0.08	65.1	0.001228879	0	0.001228879	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	63	0.04	65.1	0.000614439	0	0.000614439	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	45	0.03	65.1	0.000460829	0	0.000460829	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	35	45	67.01	65.18	0	0	65.1	0	0	0	0	0	24.74873734	24.74873734
Carbolux	500-710	B1	10	30	70.03	67.97	2800	0	67.94	0	0	0	0	5	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	2000	0	67.94	0	0	0	0	5	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	1400	0	67.94	0	0	0	0	5	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	1000	0	67.94	0	0	0	0	5	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	710	3.26	67.94	0.047983515	0.046034428	0.001949087	0	0	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	500	54.5	67.94	0.802178393	0.823329527	-0.021151134	0	0	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	355	9.98	67.94	0.146894319	0.12842047	0.018473848	0	0	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	250	0.15	67.94	0.00220783	0.001754547	0.000453283	0	0	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	180	0.05	67.94	0.000735943	0.000461028	0.000274916	0	0	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	125	0	67.94	0	0	0	0	5	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	90	0	67.94	0	0	0	0	5	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	63	0	67.94	0	0	0	0	5	8.660254038	8.660254038
Carbolux	500-710	B1	10	30	70.03	67.97	45	0	67.94	0	0	0	0	5	8.660254038	8.660254038

Carbolux	500-710	B1	10	30	70.03	67.97	0	0	67.94	0	0	0	0	0	0	0	0	5	8.660254038
Carbolux	500-710	B1	15	30	67.3	65.3	2800	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	2000	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	1400	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	1000	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	710	2.74	65.31	0.041953759	0.046034428	-0.004080669	0.000461028	0.000917015	0.000917015	0.000917015	0.000917015	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	500	51.68	65.31	0.791303016	0.823329527	-0.03202651	0.823329527	0.000461028	0.000461028	0.000461028	0.000461028	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	355	10.58	65.31	0.161996631	0.12842047	0.033576161	0.12842047	0.000461028	0.000461028	0.000461028	0.000461028	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	250	0.22	65.31	0.003336855	0.001754547	0.001614003	0.001754547	0.000461028	0.000461028	0.000461028	0.000461028	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	180	0.09	65.31	0.001378043	0.000461028	0.000917015	0.000461028	0.000917015	0.000917015	0.000917015	0.000917015	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	125	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	90	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	63	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	45	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	15	30	67.3	65.3	0	0	65.31	0	0	0	0	0	0	0	0	7.5	12.99038106
Carbolux	500-710	B1	20	30	67.44	65.56	2800	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	2000	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	1400	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	1000	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	710	2.32	65.52	0.035409035	0.046034428	-0.010625392	0.046034428	0.000461028	0.000461028	0.000461028	0.000461028	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	500	49.68	65.52	0.758241758	0.823329527	-0.065087768	0.823329527	0.000461028	0.000461028	0.000461028	0.000461028	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	355	12.97	65.52	0.197954823	0.12842047	0.069534353	0.12842047	0.000461028	0.000461028	0.000461028	0.000461028	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	250	0.41	65.52	0.006257631	0.001754547	0.004503084	0.001754547	0.000461028	0.000461028	0.000461028	0.000461028	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	180	0.11	65.52	0.001678877	0.000461028	0.001217849	0.000461028	0.000461028	0.000461028	0.000461028	0.000461028	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	125	0.03	65.52	0.000457875	0	0.000457875	0	0.000457875	0	0.000457875	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	90	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	63	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	45	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	20	30	67.44	65.56	0	0	65.52	0	0	0	0	0	0	0	0	10	17.32050808
Carbolux	500-710	B1	25	30	60.34	58.71	2800	0	58.65	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	2000	0	58.65	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	1400	0	58.65	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	1000	0	58.65	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	710	2.57	58.65	0.043819267	0.046034428	-0.002215161	0.046034428	0.000461028	0.000461028	0.000461028	0.000461028	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	500	42.37	58.65	0.722421142	0.823329527	-0.100908384	0.823329527	0.000461028	0.000461028	0.000461028	0.000461028	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	355	12.94	58.65	0.220630861	0.12842047	0.092210391	0.12842047	0.000461028	0.000461028	0.000461028	0.000461028	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	250	0.55	58.65	0.009377664	0.001754547	0.007623117	0.001754547	0.000461028	0.000461028	0.000461028	0.000461028	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	180	0.18	58.65	0.003069054	0.000461028	0.002608026	0.000461028	0.000461028	0.000461028	0.000461028	0.000461028	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	125	0.04	58.65	0.000682012	0	0.000682012	0	0.000682012	0	0.000682012	0	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	90	0	58.65	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	63	0	58.65	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux	500-710	B1	25	30	60.34	58.71	45	0	58.65	0	0	0	0	0	0	0	0	12.5	21.65063509

Carbolux 500-710 B1	25	30	60.34	58.71	0	0	58.65	0	0	0	0	0	0	0	0	0	0	0	12.5	21.65063509
Carbolux 500-710 B1	30	30	60.11	58.45	2800	0	58.4	0	0	0	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	2000	0	58.4	0	0	0	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	1400	0	58.4	0	0	0	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	1000	0	58.4	0	0	0	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	710	2.11	58.4	0.036130137	0.046034428	-0.009904291	0.00416226	0.001369863	0.000342466	0.000342466	0.000342466	0.000342466	0.000342466	0.000342466	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	500	39.25	58.4	0.672089041	0.8233329527	-0.151240485	0.004623288	0.000461028	0	0	0.001369863	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	355	15.7	58.4	0.268835616	0.12842047	0.140415146	0.001369863	0	0	0.000342466	0	0.000342466	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	250	0.95	58.4	0.016267123	0.001754547	0.014512576	0.004623288	0.000461028	0	0	0.001369863	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	180	0.27	58.4	0.004623288	0.000461028	0.00416226	0.001369863	0	0	0.000342466	0	0.000342466	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	125	0.08	58.4	0.001369863	0	0.001369863	0	0	0	0	0.000342466	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	90	0.02	58.4	0.000342466	0	0.000342466	0	0	0	0	0.000342466	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	63	0.02	58.4	0.000342466	0	0.000342466	0	0	0	0	0.000342466	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	45	0	58.4	0	0	0	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux 500-710 B1	30	30	60.11	58.45	0	0	58.4	0	0	0	0	0	0	0	0	0	0	0	15	25.98076211
Carbolux 500-710 B1	35	30	52.76	51.02	2800	0	50.98	0	0	0	0	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	2000	0	50.98	0	0	0	0	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	1400	0	50.98	0	0	0	0	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	1000	0	50.98	0	0	0	0	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	710	1.76	50.98	0.034523342	0.046034428	-0.011511085	0.004623288	0.000461028	0	0	0.001369863	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	500	31.74	50.98	0.622597097	0.8233329527	-0.20073243	0.004623288	0.000461028	0	0	0.001369863	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	355	15.82	50.98	0.310317772	0.12842047	0.181897301	0.004623288	0.000461028	0	0	0.001369863	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	250	1.16	50.98	0.022754021	0.001754547	0.020999474	0.004623288	0.000461028	0	0	0.001369863	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	180	0.36	50.98	0.007061593	0.000461028	0.006600565	0.004623288	0.000461028	0	0	0.001369863	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	125	0.1	50.98	0.001961554	0	0.001961554	0.004623288	0.000461028	0	0	0.001369863	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	90	0.04	50.98	0.000784621	0	0.000784621	0.004623288	0.000461028	0	0	0.001369863	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	63	0	50.98	0	0	0	0	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	45	0	50.98	0	0	0	0	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	35	30	52.76	51.02	0	0	50.98	0	0	0	0	0	0	0	0	0	0	0	17.5	30.31088913
Carbolux 500-710 B1	10	20	54.45	52.59	2800	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	2000	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	1400	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	1000	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	710	2.4	52.58	0.045644732	0.046034428	-0.000389696	0.004623288	0.000461028	0	0	0.001369863	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	500	42.06	52.58	0.799923925	0.8233329527	-0.023405601	0.004623288	0.000461028	0	0	0.001369863	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	355	7.97	52.58	0.151578547	0.12842047	0.023158077	0.004623288	0.000461028	0	0	0.001369863	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	250	0.11	52.58	0.00209205	0.001754547	0.000337503	0.004623288	0.000461028	0	0	0.001369863	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	180	0.04	52.58	0.000760746	0.000461028	0.000299718	0.004623288	0.000461028	0	0	0.001369863	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	125	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	90	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	63	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208
Carbolux 500-710 B1	10	20	54.45	52.59	45	0	52.58	0	0	0	0	0	0	0	0	0	0	0	3.420201433	9.396926208

Carbolux	500-710	B1	25	20	52.73	51.12	0	0	51.1	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	500-710	B1	30	20	58.56	56.84	2800	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	2000	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	1400	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	1000	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	710	2.14	56.81	0.037669424	0.046034428	-0.008365003	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	500	41.77	56.81	0.735257877	0.823329527	-0.088071649	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	355	12.28	56.81	0.216159127	0.12842047	0.087738657	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	250	0.46	56.81	0.008097166	0.001754547	0.006342619	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	180	0.12	56.81	0.002112304	0.000461028	0.001651276	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	125	0.04	56.81	0.000704101	0	0.000704101	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	90	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	63	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	45	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	30	20	58.56	56.84	0	0	56.81	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	500-710	B1	35	20	70.21	68.56	2800	0	68.51	0.029630711	0.046034428	-0.016403717	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	2000	0	68.51	0.709823383	0.823329527	-0.113506143	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	1400	0	68.51	0.24463582	0.12842047	0.116215349	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	355	16.76	68.51	0.011677127	0.001754547	0.00992258	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	250	0.8	68.51	0.00321121	0.000461028	0.002750182	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	180	0.22	68.51	0.000875785	0	0.000875785	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	125	0.06	68.51	0.000145964	0	0.000145964	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	90	0.01	68.51	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	63	0	68.51	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	45	0	68.51	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	0	0	68.51	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	500-710	B1	35	20	70.21	68.56	0	0	68.51	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	2800	0	59.81	0.029259321	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	2000	0	59.81	0.958869754	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	1400	0	59.81	0.011870925	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	1000	1.75	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	710	57.35	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	500	0.71	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	355	0	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	250	0	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	180	0	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	125	0	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	90	0	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	63	0	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!
Carbolux	710-1000	B1	1 Virgin	Virgin	59.85	59.85	45	0	59.81	0	0	0	0	0	0	#VALUE!	#VALUE!

Carbolux	710-1000	B1	1	Virgin	Virgin	59.85	59.85	0	0	59.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	2800	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	2000	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	1400	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	1000	1.09	60.81	0.017924683	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	710	58.97	60.81	0.969741819	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	500	0.75	60.81	0.012333498	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	355	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	250	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	180	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	125	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	90	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	63	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	45	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	2	Virgin	Virgin	60.88	60.88	0	0	60.81	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	2800	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	2000	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	1400	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	1000	2.22	71.53	0.031035929	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	710	68.43	71.53	0.956661541	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	500	0.88	71.53	0.01230253	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	355	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	250	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	180	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	125	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	90	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	63	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	45	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	0	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	3	Virgin	Virgin	71.58	71.58	0	0	71.53	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	2800	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	2000	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	1400	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	1000	1.03	72.07	0.014291661	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	710	70.26	72.07	0.974885528	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	500	0.78	72.07	0.010822811	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	355	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	250	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	180	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	125	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	90	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	63	0	72.07	0	#VALUE!	#VALUE!
Carbolux	710-1000	B2	4	Virgin	Virgin	72.08	72.08	45	0	72.07	0	#VALUE!	#VALUE!

Carbolux	710-1000	B1	20	90	86.83	85.8	0	85.76	0	0	0	0	0	20	1.22515E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	2800	91.84	0	0	0	0	0	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	2000	91.84	0	0	0	0	0	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	1400	91.84	0.02	0.00021777	0	0	0.00021777	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	1000	91.84	0.92	0.010017422	0.023127899	-0.013110477	-0.013110477	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	710	91.84	63.69	0.69348676	0.96503966	-0.271550984	-0.271550984	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	500	91.84	18.97	0.206554878	0.011832441	0.194722437	0.194722437	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	355	91.84	6.79	0.073932927	0	0	0.073932927	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	250	91.84	0.6	0.006533101	0	0	0.006533101	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	180	91.84	0.45	0.004899826	0	0	0.004899826	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	125	91.84	0.21	0.002286585	0	0	0.002286585	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	90	91.84	0.12	0.00130662	0	0	0.00130662	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	63	91.84	0.07	0.000762195	0	0	0.000762195	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	45	91.84	0	0	0	0	0	25	1.53144E-15
Carbolux	710-1000	B1	25	90	92.9	91.97	0	91.84	0	0	0	0	0	25	1.53144E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	2800	99.52	0	0	0	0	0	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	2000	99.52	0	0	0	0	0	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	1400	99.52	0	0	0	0	0	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	1000	99.52	0.8	0.008038585	0.023127899	-0.015089313	-0.015089313	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	710	99.52	60.22	0.605104502	0.96503966	-0.359935159	-0.359935159	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	500	99.52	25.12	0.252411576	0.011832441	0.240579135	0.240579135	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	355	99.52	10.64	0.106913183	0	0	0.106913183	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	250	99.52	1.13	0.011354502	0	0	0.011354502	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	180	99.52	0.78	0.007837621	0	0	0.007837621	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	125	99.52	0.45	0.004521704	0	0	0.004521704	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	90	99.52	0.18	0.001808682	0	0	0.001808682	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	63	99.52	0.14	0.001406752	0	0	0.001406752	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	45	99.52	0.04	0.000401929	0	0	0.000401929	30	1.83772E-15
Carbolux	710-1000	B2	30	90	100.79	99.73	0	99.52	0.02	0.000200965	0	0	0.000200965	30	1.83772E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	2800	85.29	0	0	0	0	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	2000	85.29	0	0	0	0	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	1400	85.29	0	0	0	0	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	1000	85.29	0.95	0.011138469	0.023127899	-0.01198943	-0.01198943	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	710	85.29	44.43	0.520928597	0.96503966	-0.444111064	-0.444111064	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	500	85.29	24.14	0.283034353	0.011832441	0.271201912	0.271201912	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	355	85.29	12.2	0.143041388	0	0.143041388	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	250	85.29	1.4	0.016414586	0	0.016414586	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	180	85.29	0.67	0.012545433	0	0.012545433	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	125	85.29	0.63	0.007386563	0	0.007386563	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	90	85.29	0.22	0.002579435	0	0.002579435	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	63	85.29	0.2	0.002344941	0	0.002344941	0	35	2.14401E-15
Carbolux	710-1000	B2	35	90	86.58	85.49	45	85.29	0.03	0.000351741	0	0.000351741	0	35	2.14401E-15

Carbolux	710-1000	B2	35	90	86.58	85.49	0	0.02	85.29	0.000234494	0	0.000234494	35	2.14401E-15
Carbolux	710-1000	B2	10	45	90.85	89.65	2800	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	2000	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	1400	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	1000	1.91	89.61	0.021314585	0.023127899	-0.001813313	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	710	84.4	89.61	0.941859168	0.96503966	-0.023180493	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	500	2.75	89.61	0.030688539	0.011832441	0.018856098	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	355	0.47	89.61	0.00524495	0	0.00524495	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	250	0.05	89.61	0.000557973	0	0.000557973	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	180	0.03	89.61	0.000334784	0	0.000334784	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	125	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	90	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	63	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	45	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	10	45	90.85	89.65	0	0	89.61	0	0	0	7.071067812	7.071067812
Carbolux	710-1000	B2	15	45	95.66	94.61	2800	0	94.52	0	0	0	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	2000	0	94.52	0	0	0	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	1400	0	94.52	0	0	0	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	1000	1.95	94.52	0.020630554	0.023127899	-0.002497344	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	710	85.45	94.52	0.904041473	0.96503966	-0.060998188	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	500	5.81	94.52	0.061468472	0.011832441	0.049636031	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	355	1.13	94.52	0.011955142	0	0.011955142	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	250	0.07	94.52	0.000740584	0	0.000740584	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	180	0.05	94.52	0.000528989	0	0.000528989	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	125	0.05	94.52	0.000528989	0	0.000528989	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	90	0.01	94.52	0.000105798	0	0.000105798	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	63	0	94.52	0	0	0	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	45	0	94.52	0	0	0	10.60660172	10.60660172
Carbolux	710-1000	B2	15	45	95.66	94.61	0	0	94.52	0	0	0	10.60660172	10.60660172
Carbolux	710-1000	B2	20	45	92.65	91.36	2800	0	91.35	0	0	0	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	2000	0	91.35	0	0	0	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	1400	0.03	91.35	0.000328407	0	0.000328407	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	1000	1.63	91.35	0.017843459	0.023127899	-0.005284439	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	710	77.38	91.35	0.847071702	0.96503966	-0.117967958	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	500	9.53	91.35	0.104324028	0.011832441	0.092491587	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	355	2.33	91.35	0.025506294	0	0.025506294	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	250	0.18	91.35	0.001970443	0	0.001970443	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	180	0.13	91.35	0.001423098	0	0.001423098	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	125	0.1	91.35	0.001094691	0	0.001094691	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	90	0.02	91.35	0.000218938	0	0.000218938	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	63	0.02	91.35	0.000218938	0	0.000218938	14.14213562	14.14213562
Carbolux	710-1000	B2	20	45	92.65	91.36	45	0	91.35	0	0	0	14.14213562	14.14213562

Carbolux	710-1000	B2	20	45	92.65	91.36	0	0	91.35	0	0	0	0	0	0	0	14.14213562	14.14213562
Carbolux	710-1000	B2	25	45	96.55	95.34	2800	0	94.32	0	0	0	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	2000	0	94.32	0	0	0	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	1400	0.04	94.32	0.000424088	0	0.000424088	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	1000	1.12	94.32	0.01187447	0.023127899	-0.011253429	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	710	74.22	94.32	0.786895674	0.96503966	-0.178143986	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	500	14	94.32	0.148430874	0.011832441	0.136598433	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	355	4.08	94.32	0.043256997	0	0.043256997	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	250	0.36	94.32	0.003816794	0	0.003816794	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	180	0.24	94.32	0.002544529	0	0.002544529	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	125	0.16	94.32	0.001696353	0	0.001696353	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	90	0.05	94.32	0.00053011	0	0.00053011	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	63	0.05	94.32	0.00053011	0	0.00053011	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	45	0	94.32	0	0	0	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	25	45	96.55	95.34	0	0	94.32	0	0	0	0	0	0	0	17.67766953	17.67766953
Carbolux	710-1000	B2	30	45	92.12	90.94	2800	0	90.91	0	0	0	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	2000	0.02	90.91	0.000219998	0	0.000219998	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	1400	0.03	90.91	0.000329997	0	0.000329997	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	1000	1.9	90.91	0.020899791	0.023127899	-0.02228108	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	710	64.09	90.91	0.70498295	0.96503966	-0.26005671	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	500	17.38	90.91	0.191178088	0.011832441	0.179345647	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	355	6.06	90.91	0.066659333	0	0.066659333	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	250	0.6	90.91	0.006599934	0	0.006599934	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	180	0.41	90.91	0.004509955	0	0.004509955	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	125	0.23	90.91	0.002529975	0	0.002529975	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	90	0.07	90.91	0.000769992	0	0.000769992	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	63	0.1	90.91	0.001099989	0	0.001099989	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	45	0.02	90.91	0.000219998	0	0.000219998	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	30	45	92.12	90.94	0	0	90.91	0	0	0	0	0	0	0	21.21320344	21.21320344
Carbolux	710-1000	B2	35	45	98.07	96.94	2800	0	96.87	0	0	0	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	2000	0	96.87	0	0	0	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	1400	0.04	96.87	0.000412925	0	0.000412925	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	1000	1.54	96.87	0.015897595	0.023127899	-0.007230304	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	710	62.23	96.87	0.64240735	0.96503966	-0.32263231	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	500	21.87	96.87	0.225766491	0.011832441	0.21393405	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	355	8.86	96.87	0.091462785	0	0.091462785	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	250	1	96.87	0.010323113	0	0.010323113	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	180	0.63	96.87	0.006503561	0	0.006503561	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	125	0.41	96.87	0.004232477	0	0.004232477	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	90	0.11	96.87	0.001135542	0	0.001135542	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	63	0.15	96.87	0.001548467	0	0.001548467	0	0	0	0	24.74873734	24.74873734
Carbolux	710-1000	B2	35	45	98.07	96.94	45	0.03	96.87	0.000309693	0	0.000309693	0	0	0	0	24.74873734	24.74873734

Carbolux 710-1000 B2	35	45	98.07	96.94	0	0	96.87	0	0	0	0	0	0	0	0	24,74873734	24,74873734	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	2800	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	2000	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	1400	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	1000	3.3	82	0.040243902	0.023127899	0.017116004	0.017116004	0.017116004	0.017116004	0.017116004	0.017116004	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	710	76.47	82	0.932560976	0.96503966	-0.032478685	-0.032478685	-0.032478685	-0.032478685	-0.032478685	-0.032478685	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	500	1.87	82	0.022804878	0.011832441	0.010972437	0.010972437	0.010972437	0.010972437	0.010972437	0.010972437	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	355	0.31	82	0.003780488	0	0.003780488	0	0.003780488	0	0.003780488	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	250	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	180	0.03	82	0.000365854	0	0.000365854	0	0.000365854	0	0.000365854	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	125	0.02	82	0.000243902	0	0.000243902	0	0.000243902	0	0.000243902	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	90	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	63	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	45	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	10	30	83.3	82.02	0	0	82	0	0	0	0	0	0	0	0	5	5	8.660254038
Carbolux 710-1000 B2	15	30	98.52	97.51	2800	0	97.49	0	0	0	0	0	0	0	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	2000	0	97.49	0	0	0	0	0	0	0	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	1400	0	97.49	0	0	0	0	0	0	0	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	1000	3.29	97.49	0.033747051	0.023127899	0.010619152	0.010619152	0.010619152	0.010619152	0.010619152	0.010619152	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	710	88.89	97.49	0.911785824	0.96503966	-0.053253836	-0.053253836	-0.053253836	-0.053253836	-0.053253836	-0.053253836	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	500	4.36	97.49	0.044722536	0.011832441	0.032890095	0.032890095	0.032890095	0.032890095	0.032890095	0.032890095	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	355	0.8	97.49	0.00820597	0	0.00820597	0	0.00820597	0	0.00820597	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	250	0.07	97.49	0.000718022	0	0.000718022	0	0.000718022	0	0.000718022	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	180	0.04	97.49	0.000410298	0	0.000410298	0	0.000410298	0	0.000410298	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	125	0.04	97.49	0.000410298	0	0.000410298	0	0.000410298	0	0.000410298	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	90	0	97.49	0	0	0	0	0	0	0	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	63	0	97.49	0	0	0	0	0	0	0	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	45	0	97.49	0	0	0	0	0	0	0	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	15	30	98.52	97.51	0	0	97.49	0	0	0	0	0	0	0	0	7.5	7.5	12.99038106
Carbolux 710-1000 B2	20	30	86.42	85.23	2800	0	85.19	0	0	0	0	0	0	0	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	2000	0	85.19	0	0	0	0	0	0	0	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	1400	0	85.19	0	0	0	0	0	0	0	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	1000	1.95	85.19	0.022890011	0.023127899	-0.000237888	-0.000237888	-0.000237888	-0.000237888	-0.000237888	-0.000237888	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	710	75.13	85.19	0.881911022	0.96503966	-0.083128638	-0.083128638	-0.083128638	-0.083128638	-0.083128638	-0.083128638	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	500	6.43	85.19	0.075478343	0.011832441	0.063645902	0.063645902	0.063645902	0.063645902	0.063645902	0.063645902	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	355	1.42	85.19	0.016668623	0	0.016668623	0	0.016668623	0	0.016668623	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	250	0.1	85.19	0.001173847	0	0.001173847	0	0.001173847	0	0.001173847	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	180	0.08	85.19	0.000939077	0	0.000939077	0	0.000939077	0	0.000939077	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	125	0.05	85.19	0.000586923	0	0.000586923	0	0.000586923	0	0.000586923	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	90	0	85.19	0	0	0	0	0	0	0	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	63	0.03	85.19	0.000352154	0	0.000352154	0	0.000352154	0	0.000352154	0	10	10	17.32050808
Carbolux 710-1000 B2	20	30	86.42	85.23	45	0	85.19	0	0	0	0	0	0	0	0	10	10	17.32050808

Carbolux	710-1000	B2	20	30	86.42	85.23	0	0	85.19	0	0	0	0	0	10	17.32050808
Carbolux	710-1000	B2	25	30	80.28	79.26	2800	0	79.21	0	0	0	0	0	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	2000	0	79.21	0	0	0	0	0	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	1400	0	79.21	0	0	0	0	0	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	1000	1.89	79.21	0.023860624	0.023127899	0.000732725	0.000732725	0.000732725	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	710	66.06	79.21	0.833985608	0.96503966	-0.131054053	-0.131054053	-0.131054053	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	500	8.58	79.21	0.108319657	0.011832441	0.096487216	0.096487216	0.096487216	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	355	2.23	79.21	0.028153011	0	0.028153011	0.028153011	0.028153011	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	250	0.19	79.21	0.002398687	0	0.002398687	0.002398687	0.002398687	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	180	0.12	79.21	0.00151496	0	0.00151496	0.00151496	0.00151496	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	125	0.09	79.21	0.00113622	0	0.00113622	0.00113622	0.00113622	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	90	0	79.21	0	0	0	0	0	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	63	0.03	79.21	0.00037874	0	0.00037874	0.00037874	0.00037874	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	45	0.02	79.21	0.000252493	0	0.000252493	0.000252493	0.000252493	12.5	21.65063509
Carbolux	710-1000	B2	25	30	80.28	79.26	0	0	79.21	0	0	0	0	0	12.5	21.65063509
Carbolux	710-1000	B2	30	30	99.42	98.25	2800	0	98.19	0	0	0	0	0	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	2000	0	98.19	0	0	0	0	0	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	1400	0	98.19	0	0	0	0	0	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	1000	2.2	98.19	0.02240554	0.023127899	-0.00072358	-0.00072358	-0.00072358	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	710	76.89	98.19	0.783073633	0.96503966	-0.181966028	-0.181966028	-0.181966028	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	500	13.91	98.19	0.141664121	0.011832441	0.12983168	0.12983168	0.12983168	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	355	4.23	98.19	0.043079743	0	0.043079743	0.043079743	0.043079743	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	250	0.4	98.19	0.004073735	0	0.004073735	0.004073735	0.004073735	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	180	0.26	98.19	0.002647927	0	0.002647927	0.002647927	0.002647927	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	125	0.17	98.19	0.001731337	0	0.001731337	0.001731337	0.001731337	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	90	0.07	98.19	0.000712904	0	0.000712904	0.000712904	0.000712904	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	63	0.06	98.19	0.00061106	0	0.00061106	0.00061106	0.00061106	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	45	0	98.19	0	0	0	0	0	15	25.98076211
Carbolux	710-1000	B2	30	30	99.42	98.25	0	0	98.19	0	0	0	0	0	15	25.98076211
Carbolux	710-1000	B2	35	30	85.72	84.67	2800	0	84.63	0	0	0	0	0	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	2000	0	84.63	0	0	0	0	0	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	1400	0	84.63	0	0	0	0	0	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	1000	1.34	84.63	0.015833629	0.023127899	-0.00729427	-0.00729427	-0.00729427	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	710	62.44	84.63	0.737799835	0.96503966	-0.227239826	-0.227239826	-0.227239826	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	500	14.42	84.63	0.170388751	0.011832441	0.15855631	0.15855631	0.15855631	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	355	5.17	84.63	0.061089448	0	0.061089448	0.061089448	0.061089448	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	250	0.52	84.63	0.006144393	0	0.006144393	0.006144393	0.006144393	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	180	0.37	84.63	0.004371972	0	0.004371972	0.004371972	0.004371972	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	125	0.2	84.63	0.002363228	0	0.002363228	0.002363228	0.002363228	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	90	0.08	84.63	0.000945291	0	0.000945291	0.000945291	0.000945291	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	63	0.08	84.63	0.000945291	0	0.000945291	0.000945291	0.000945291	17.5	30.31088913
Carbolux	710-1000	B2	35	30	85.72	84.67	45	0	84.63	0	0	0	0	0	17.5	30.31088913

Carbolux	710-1000	B2	35	30	85.72	84.67	0	0.01	84.63	0.000118161	0	0.000118161	17.5	30.31088913
Carbolux	710-1000	B2	10	20	102.1	101.77	2800	0	101.76	0.000294811	0	0	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	2000	0.03	101.76	0.000196541	0	0.000196541	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	1400	0.02	101.76	0.034394654	0.023127899	0.011266755	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	1000	3.5	101.76	0.941136006	0.96503966	-0.023903654	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	710	95.77	101.76	0.020538522	0.011832441	0.008706081	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	500	2.09	101.76	0.002849843	0	0.002849843	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	355	0.29	101.76	0.000196541	0	0.000196541	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	250	0.02	101.76	0.000294811	0	0.000294811	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	180	0.03	101.76	0	0	0	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	125	0	101.76	0	0	0	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	90	0	101.76	0	0	0	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	63	0	101.76	0	0	0	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	45	0	101.76	0	0	0	3.420201433	9.396926208
Carbolux	710-1000	B2	10	20	102.1	101.77	0	0.01	101.76	9.82704E-05	0	9.82704E-05	3.420201433	9.396926208
Carbolux	710-1000	B2	15	20	102.16	101.12	2800	0	101.14	0	0	0	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	2000	0	101.14	0	0	0	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	1400	0	101.14	0	0	0	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	1000	4.36	101.14	0.043108562	0.023127899	0.019980664	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	710	93.23	101.14	0.921791576	0.96503966	-0.043248084	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	500	2.92	101.14	0.028870872	0.011832441	0.017038431	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	355	0.48	101.14	0.004745897	0	0.004745897	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	250	0.06	101.14	0.000593237	0	0.000593237	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	180	0.02	101.14	0.000197746	0	0.000197746	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	125	0.04	101.14	0.000395491	0	0.000395491	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	90	0	101.14	0	0	0	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	63	0.03	101.14	0.000296619	0	0.000296619	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	45	0	101.14	0	0	0	5.13030215	14.09538931
Carbolux	710-1000	B2	15	20	102.16	101.12	0	0	101.14	0	0	0	5.13030215	14.09538931
Carbolux	710-1000	B2	20	20	75.91	74.86	2800	0	74.84	0	0	0	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	2000	0	74.84	0	0	0	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	1400	0	74.84	0	0	0	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	1000	1.78	74.84	0.023784073	0.023127899	0.000656174	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	710	68.68	74.84	0.917691074	0.96503966	-0.047348586	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	500	3.54	74.84	0.047300909	0.011832441	0.035468468	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	355	0.68	74.84	0.00908605	0	0.00908605	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	250	0.09	74.84	0.001202565	0	0.001202565	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	180	0.03	74.84	0.000400855	0	0.000400855	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	125	0.03	74.84	0.000400855	0	0.000400855	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	90	0	74.84	0	0	0	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	63	0	74.84	0	0	0	6.840402867	18.79385242
Carbolux	710-1000	B2	20	20	75.91	74.86	45	0.01	74.84	0.000133618	0	0.000133618	6.840402867	18.79385242

Carbolux	710-1000	B2	20	20	75.91	74.86	0	0	74.84	0	0	0	0	0	0	6.840402867	18.79385242
Carbolux	710-1000	B2	25	20	85.42	84.5	2800	0	84.46	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	2000	0	84.46	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	1400	0	84.46	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	1000	2.37	84.46	0.02806062	0.023127899	0.004932722	0.004932722	0.004932722	0.004932722	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	710	74.22	84.46	0.878759176	0.96503966	-0.086280484	-0.086280484	-0.086280484	-0.086280484	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	500	6.21	84.46	0.073525929	0.011832441	0.061693488	0.061693488	0.061693488	0.061693488	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	355	1.37	84.46	0.016220696	0	0.016220696	0	0.016220696	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	250	0.1	84.46	0.001183992	0	0.001183992	0	0.001183992	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	180	0.1	84.46	0.001183992	0	0.001183992	0	0.001183992	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	125	0.05	84.46	0.000591996	0	0.000591996	0	0.000591996	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	90	0	84.46	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	63	0.04	84.46	0.000473597	0	0.000473597	0	0.000473597	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	45	0	84.46	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	710-1000	B2	25	20	85.42	84.5	0	0	84.46	0	0	0	0	0	0	8.550503583	23.49231552
Carbolux	710-1000	B2	30	20	76.15	75.18	2800	0	75.1	0	0	0	0	0	0	10.2606043	23.49231552
Carbolux	710-1000	B2	30	20	76.15	75.18	2000	0	75.1	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	1400	0	75.1	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	1000	1.35	75.1	0.017976032	0.023127899	-0.005151867	-0.005151867	-0.005151867	-0.005151867	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	710	64.12	75.1	0.85379494	0.96503966	-0.11124472	-0.11124472	-0.11124472	-0.11124472	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	500	7.34	75.1	0.097736352	0.011832441	0.085903911	0.085903911	0.085903911	0.085903911	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	355	1.92	75.1	0.025565912	0	0.025565912	0	0.025565912	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	250	0.14	75.1	0.001864181	0	0.001864181	0	0.001864181	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	180	0.11	75.1	0.001464714	0	0.001464714	0	0.001464714	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	125	0.06	75.1	0.000798935	0	0.000798935	0	0.000798935	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	90	0.04	75.1	0.000532623	0	0.000532623	0	0.000532623	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	63	0.02	75.1	0.000266312	0	0.000266312	0	0.000266312	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	45	0	75.1	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	710-1000	B2	30	20	76.15	75.18	0	0	75.1	0	0	0	0	0	0	10.2606043	28.19077862
Carbolux	710-1000	B2	35	20	85.98	85.05	2800	0	85	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	2000	0	85	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	1400	0	85	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	1000	1.86	85	0.021882353	0.023127899	-0.001245546	-0.001245546	-0.001245546	-0.001245546	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	710	68.53	85	0.806235294	0.96503966	-0.158804366	-0.158804366	-0.158804366	-0.158804366	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	500	10.82	85	0.127294118	0.011832441	0.115461677	0.115461677	0.115461677	0.115461677	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	355	3.11	85	0.036588235	0	0.036588235	0	0.036588235	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	250	0.26	85	0.003058824	0	0.003058824	0	0.003058824	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	180	0.22	85	0.002588235	0	0.002588235	0	0.002588235	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	125	0.09	85	0.001058824	0	0.001058824	0	0.001058824	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	90	0.07	85	0.000823529	0	0.000823529	0	0.000823529	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	63	0	85	0	0	0	0	0	0	11.97070502	32.88924173
Carbolux	710-1000	B2	35	20	85.98	85.05	45	0	85	0	0	0	0	0	0	11.97070502	32.88924173

Carbolux 710-1000 B2 35 20 85.98 85.05 0 0.04 85 0.000470588 0 0.000470588 11.97070502 32.88924173

M.1.2 Carbolux SK Type C: With and Without the Foam Lining

Material	Sieve	Impact Velocity (m/s)	Feed (unloaded RPM)	Impact Angle (deg)	Mass	Sample Mass	% Ret	Repetition
Carbolux	2800 Virgin		0	0	0.311	184.755	0.168331033	1
Carbolux	1400 Virgin		0	0	0.697	184.755	0.377256367	1
Carbolux	1000 Virgin		0	0	8.947	184.755	4.842629428	1
Carbolux	710 Virgin		0	0	164.572	184.755	89.07580309	1
Carbolux	500 Virgin		0	0	9.015	184.755	4.879434927	1
Carbolux	355 Virgin		0	0	1.062	184.755	0.574815296	1
Carbolux	250 Virgin		0	0	0.071	184.755	0.038429271	1
Carbolux	180 Virgin		0	0	0.037	184.755	0.020026522	1
Carbolux	125 Virgin		0	0	0.034	184.755	0.01840275	1
Carbolux	63 Virgin		0	0	0.006	184.755	0.003247544	1
Carbolux	45 Virgin		0	0	0.003	184.755	0.001623772	1
Carbolux	0 Virgin		0	0	0	184.755	0	1
Carbolux	2800 Virgin		0	0	0.066	97.159	0.067929888	2
Carbolux	1400 Virgin		0	0	0.387	97.159	0.398316162	2
Carbolux	1000 Virgin		0	0	5.359	97.159	5.515701067	2
Carbolux	710 Virgin		0	0	84.926	97.159	87.40929816	2
Carbolux	500 Virgin		0	0	5.68	97.159	5.846087341	2
Carbolux	355 Virgin		0	0	0.578	97.159	0.594901141	2
Carbolux	250 Virgin		0	0	0.084	97.159	0.086456221	2
Carbolux	180 Virgin		0	0	0.044	97.159	0.045286592	2
Carbolux	125 Virgin		0	0	0.013	97.159	0.013380129	2
Carbolux	63 Virgin		0	0	0.015	97.159	0.015438611	2
Carbolux	45 Virgin		0	0	0.007	97.159	0.007204685	2
Carbolux	0 Virgin		0	0	0	97.159	0	2
Carbolux	2800 Virgin		0	0	0	91.0973	0	3
Carbolux	1400 Virgin		0	0	0.0283	91.0973	0.031065685	3
Carbolux	1000 Virgin		0	0	5.448	91.0973	5.980418739	3
Carbolux	710 Virgin		0	0	80.247	91.0973	88.08932866	3
Carbolux	500 Virgin		0	0	4.767	91.0973	5.232866397	3
Carbolux	355 Virgin		0	0	0.479	91.0973	0.525811413	3
Carbolux	250 Virgin		0	0	0.055	91.0973	0.060375006	3

Carbolux	180 Virgin	0	0	0.042	0	91.0973	0.04610455	3
Carbolux	125 Virgin	0	0	0.011	0	91.0973	0.012075001	3
Carbolux	63 Virgin	0	0	0.012	0	91.0973	0.013172729	3
Carbolux	45 Virgin	0	0	0.008	0	91.0973	0.008781819	3
Carbolux	0 Virgin	0	0	0	0	91.0973	0	3
Carbolux	2800	15	121	0	45	90.292	0	
Carbolux	1400	15	121	0.44	45	90.292	0.487307846	
Carbolux	1000	15	121	3.73	45	90.292	4.13104151	
Carbolux	710	15	121	73.764	45	90.292	81.69494529	
Carbolux	500	15	121	10.001	45	90.292	11.07628583	
Carbolux	355	15	121	1.983	45	90.292	2.196207859	
Carbolux	250	15	121	0.181	45	90.292	0.200460727	
Carbolux	180	15	121	0.106	45	90.292	0.11739689	
Carbolux	125	15	121	0.035	45	90.292	0.038763124	
Carbolux	63	15	121	0.047	45	90.292	0.052053338	
Carbolux	45	15	121	0.003	45	90.292	0.003322553	
Carbolux	0	15	121	0.002	45	90.292	0.002215036	
Carbolux	2800	20	121	0	45	94.11	0	
Carbolux	1400	20	121	0.274	45	94.11	0.291148656	
Carbolux	1000	20	121	3.516	45	94.11	3.736053554	
Carbolux	710	20	121	72.107	45	94.11	76.61991287	
Carbolux	500	20	121	14.003	45	94.11	14.87939645	
Carbolux	355	20	121	3.5	45	94.11	3.719052173	
Carbolux	250	20	121	0.327	45	94.11	0.347465732	
Carbolux	180	20	121	0.199	45	94.11	0.211454681	
Carbolux	125	20	121	0.089	45	94.11	0.094570184	
Carbolux	63	20	121	0.079	45	94.11	0.08394432	
Carbolux	45	20	121	0.013	45	94.11	0.013813622	
Carbolux	0	20	121	0.003	45	94.11	0.003187759	
Carbolux	2800	25	121	0.109	45	97.927	0.111307402	
Carbolux	1400	25	121	0.277	45	97.927	0.282863766	
Carbolux	1000	25	121	4.575	45	97.927	4.671847397	

Carbolux	710	25	121	45	69.632	97.927	71.10602796
Carbolux	500	25	121	45	17.242	97.927	17.60699296
Carbolux	355	25	121	45	4.966	97.927	5.071124409
Carbolux	250	25	121	45	0.461	97.927	0.470758831
Carbolux	180	25	121	45	0.354	97.927	0.361493766
Carbolux	125	25	121	45	0.137	97.927	0.13990013
Carbolux	63	25	121	45	0.131	97.927	0.133773117
Carbolux	45	25	121	45	0.019	97.927	0.019402208
Carbolux	0	25	121	45	0.024	97.927	0.024508052
Carbolux	2800	30	121	45	0.083	89.946	0.092277589
Carbolux	1400	30	121	45	0.146	89.946	0.162319614
Carbolux	1000	30	121	45	2.689	89.946	2.989571521
Carbolux	710	30	121	45	58.356	89.946	64.87892736
Carbolux	500	30	121	45	19.648	89.946	21.84421764
Carbolux	355	30	121	45	7.313	89.946	8.130433816
Carbolux	250	30	121	45	0.747	89.946	0.830498299
Carbolux	180	30	121	45	0.513	89.946	0.570342205
Carbolux	125	30	121	45	0.19	89.946	0.211237854
Carbolux	63	30	121	45	0.202	89.946	0.224579192
Carbolux	45	30	121	45	0.045	89.946	0.050030018
Carbolux	0	30	121	45	0.014	89.946	0.015564894
Carbolux	2800	35	121	45	0	96.864	0
Carbolux	1400	35	121	45	0.199	96.864	0.205442683
Carbolux	1000	35	121	45	2.243	96.864	2.315617773
Carbolux	710	35	121	45	56.49	96.864	58.31888008
Carbolux	500	35	121	45	24.593	96.864	25.38920548
Carbolux	355	35	121	45	10.594	96.864	10.93698381
Carbolux	250	35	121	45	1.098	96.864	1.133548067
Carbolux	180	35	121	45	0.859	96.864	0.886810373
Carbolux	125	35	121	45	0.326	96.864	0.336554344
Carbolux	63	35	121	45	0.356	96.864	0.367525603
Carbolux	45	35	121	45	0.057	96.864	0.058845391

Carbolux	0	35	121	45	0.049	96.864	0.050586389
Carbolux	2800	15	121	30	0.091	98.367	0.0925107
Carbolux	1400	15	121	30	0.383	98.367	0.38935822
Carbolux	1000	15	121	30	5.18	98.367	5.265993677
Carbolux	710	15	121	30	81.669	98.367	83.0247949
Carbolux	500	15	121	30	8.993	98.367	9.142293655
Carbolux	355	15	121	30	1.656	98.367	1.683491415
Carbolux	250	15	121	30	0.207	98.367	0.210436427
Carbolux	180	15	121	30	0.101	98.367	0.102676711
Carbolux	125	15	121	30	0.048	98.367	0.048796853
Carbolux	63	15	121	30	0.033	98.367	0.033547836
Carbolux	45	15	121	30	0.006	98.367	0.006099607
Carbolux	0	15	121	30	0	98.367	0
Carbolux	2800	20	121	30	0.048	92.072	0.052133113
Carbolux	1400	20	121	30	0.393	92.072	0.426839864
Carbolux	1000	20	121	30	3.576	92.072	3.883916935
Carbolux	710	20	121	30	71.931	92.072	78.12472847
Carbolux	500	20	121	30	12.547	92.072	13.62737857
Carbolux	355	20	121	30	2.932	92.072	3.184464332
Carbolux	250	20	121	30	0.295	92.072	0.320401425
Carbolux	180	20	121	30	0.164	92.072	0.17812147
Carbolux	125	20	121	30	0.089	92.072	0.096663481
Carbolux	63	20	121	30	0.077	92.072	0.083630202
Carbolux	45	20	121	30	0.015	92.072	0.016291598
Carbolux	0	20	121	30	0.005	92.072	0.005430533
Carbolux	2800	25	121	30	0.05	94.252	0.053049272
Carbolux	1400	25	121	30	0.325	94.252	0.344820269
Carbolux	1000	25	121	30	3.83	94.252	4.063574248
Carbolux	710	25	121	30	69.322	94.252	73.5496329
Carbolux	500	25	121	30	15.477	94.252	16.42087171
Carbolux	355	25	121	30	4.265	94.252	4.525102916
Carbolux	250	25	121	30	0.426	94.252	0.451979799

Carbolux	180	25	121	30	0.275	94.252	0.291770997
Carbolux	125	25	121	30	0.122	94.252	0.129440224
Carbolux	63	25	121	30	0.109	94.252	0.115647413
Carbolux	45	25	121	30	0.038	94.252	0.040317447
Carbolux	0	25	121	30	0.013	94.252	0.013792811
Carbolux	2800	30	121	30	0.12	93.422	0.128449402
Carbolux	1400	30	121	30	0.3	93.422	0.321123504
Carbolux	1000	30	121	30	3.162	93.422	3.384641733
Carbolux	710	30	121	30	63.313	93.422	67.77097472
Carbolux	500	30	121	30	18.916	93.422	20.24790735
Carbolux	355	30	121	30	6.144	93.422	6.576609364
Carbolux	250	30	121	30	0.618	93.422	0.661514418
Carbolux	180	30	121	30	0.438	93.422	0.468840316
Carbolux	125	30	121	30	0.163	93.422	0.174477104
Carbolux	63	30	121	30	0.185	93.422	0.198026161
Carbolux	45	30	121	30	0.038	93.422	0.040675644
Carbolux	0	30	121	30	0.025	93.422	0.026760292
Carbolux	2800	35	121	30	0.05	96.088	0.052035634
Carbolux	1400	35	121	30	0.196	96.088	0.203979685
Carbolux	1000	35	121	30	2.362	96.088	2.45816335
Carbolux	710	35	121	30	61.042	96.088	63.52718342
Carbolux	500	35	121	30	21.668	96.088	22.55016235
Carbolux	355	35	121	30	8.578	96.088	8.927233369
Carbolux	250	35	121	30	0.918	96.088	0.95537424
Carbolux	180	35	121	30	0.63	96.088	0.655648988
Carbolux	125	35	121	30	0.255	96.088	0.265381733
Carbolux	63	35	121	30	0.295	96.088	0.307010241
Carbolux	45	35	121	30	0.041	96.088	0.04266922
Carbolux	0	35	121	30	0.053	96.088	0.055157772
Carbolux	2800	15	121	90	0	93.359	0
Carbolux	1400	15	121	90	0.288	93.359	0.308486595
Carbolux	1000	15	121	90	3.019	93.359	3.233753575

Carbolux	710	15	121	90	73.737	93.359	78.98220846
Carbolux	500	15	121	90	12.848	93.359	13.76192976
Carbolux	355	15	121	90	2.895	93.359	3.100932958
Carbolux	250	15	121	90	0.249	93.359	0.266712368
Carbolux	180	15	121	90	0.156	93.359	0.167096905
Carbolux	125	15	121	90	0.071	93.359	0.076050515
Carbolux	63	15	121	90	0.067	93.359	0.071765979
Carbolux	45	15	121	90	0.022	93.359	0.023564948
Carbolux	0	15	121	90	0.007	93.359	0.007497938
Carbolux	2800	20	121	90	0.026	94.172	0.027609056
Carbolux	1400	20	121	90	0.254	94.172	0.269719237
Carbolux	1000	20	121	90	2.495	94.172	2.649407467
Carbolux	710	20	121	90	67.202	94.172	71.36091407
Carbolux	500	20	121	90	17.974	94.172	19.08635263
Carbolux	355	20	121	90	5.206	94.172	5.528182475
Carbolux	250	20	121	90	0.437	94.172	0.464044514
Carbolux	180	20	121	90	0.289	94.172	0.306885274
Carbolux	125	20	121	90	0.115	94.172	0.122116977
Carbolux	63	20	121	90	0.129	94.172	0.136983392
Carbolux	45	20	121	90	0.029	94.172	0.030794716
Carbolux	0	20	121	90	0.016	94.172	0.016990188
Carbolux	2800	25	121	90	0.033	106.395	0.031016495
Carbolux	1400	25	121	90	0.192	106.395	0.180459608
Carbolux	1000	25	121	90	2.794	106.395	2.626063255
Carbolux	710	25	121	90	67.44	106.395	63.38643733
Carbolux	500	25	121	90	25.166	106.395	23.65336717
Carbolux	355	25	121	90	8.809	106.395	8.279524414
Carbolux	250	25	121	90	0.812	106.395	0.763193759
Carbolux	180	25	121	90	0.546	106.395	0.51318201
Carbolux	125	25	121	90	0.306	106.395	0.2876075
Carbolux	63	25	121	90	0.21	106.395	0.197377696
Carbolux	45	25	121	90	0.046	106.395	0.043235114

Carbolux	0	25	121	90	0.041	106.395	0.038535645
Carbolux	2800	30	121	90	0.015	92.459	0.016223407
Carbolux	1400	30	121	90	0.126	92.459	0.13627662
Carbolux	1000	30	121	90	1.923	92.459	2.079840794
Carbolux	710	30	121	90	51.436	92.459	55.63114462
Carbolux	500	30	121	90	25.468	92.459	27.54518219
Carbolux	355	30	121	90	10.694	92.459	11.56620772
Carbolux	250	30	121	90	1.146	92.459	1.239468305
Carbolux	180	30	121	90	0.789	92.459	0.853351215
Carbolux	125	30	121	90	0.428	92.459	0.462907883
Carbolux	63	30	121	90	0.313	92.459	0.338528429
Carbolux	45	30	121	90	0.072	92.459	0.077872354
Carbolux	0	30	121	90	0.049	92.459	0.052996463
Carbolux	2800	35	121	90	0.121	101.569	0.119130837
Carbolux	1400	35	121	90	0.14	101.569	0.137837332
Carbolux	1000	35	121	90	1.514	101.569	1.490612293
Carbolux	710	35	121	90	49.121	101.569	48.36219713
Carbolux	500	35	121	90	30.24	101.569	29.77286377
Carbolux	355	35	121	90	15.774	101.569	15.53032914
Carbolux	250	35	121	90	1.895	101.569	1.865726747
Carbolux	180	35	121	90	1.316	101.569	1.295670923
Carbolux	125	35	121	90	0.725	101.569	0.713800471
Carbolux	63	35	121	90	0.526	101.569	0.517874548
Carbolux	45	35	121	90	0.098	101.569	0.096486133
Carbolux	0	35	121	90	0.099	101.569	0.097470685
Carbolux	2800 Virgin		121	0	0.045	105.745	0.042555204
Carbolux	1400 Virgin		121	0	0.391	105.745	0.369757435
Carbolux	1000 Virgin		121	0	5.531	105.745	5.230507353
Carbolux	710 Virgin		121	0	92.539	105.745	87.51146626
Carbolux	500 Virgin		121	0	6.395	105.745	6.047567261
Carbolux	355 Virgin		121	0	0.671	105.745	0.634545369
Carbolux	250 Virgin		121	0	0.088	105.745	0.083219065

Carbolux	180 Virgin	121	0	0.044	105.745	0.041609532	4
Carbolux	125 Virgin	121	0	0.022	105.745	0.020804766	4
Carbolux	63 Virgin	121	0	0.017	105.745	0.01607641	4
Carbolux	45 Virgin	121	0	0.002	105.745	0.001891342	4
Carbolux	0 Virgin	121	0	0	105.745	0	4
Carbolux	2800	15	20	0.204	110.83	0.184065686	
Carbolux	1400	15	20	0.349	110.83	0.314896689	
Carbolux	1000	15	20	5.815	110.83	5.246774339	
Carbolux	710	15	20	91.571	110.83	82.62293603	
Carbolux	500	15	20	10.349	110.83	9.337724443	
Carbolux	355	15	20	1.966	110.83	1.773887936	
Carbolux	250	15	20	0.235	110.83	0.212036452	
Carbolux	180	15	20	0.15	110.83	0.135342416	
Carbolux	125	15	20	0.08	110.83	0.072182622	
Carbolux	63	15	20	0.083	110.83	0.07488947	
Carbolux	45	15	20	0.017	110.83	0.015338807	4
Carbolux	0	15	20	0.011	110.83	0.009925111	
Carbolux	2800	20	20	0.018	98.162	0.018337035	
Carbolux	1400	20	20	0.326	98.162	0.332104073	
Carbolux	1000	20	20	4.522	98.162	4.606670606	
Carbolux	710	20	20	77.422	98.162	78.87166113	
Carbolux	500	20	20	12.407	98.162	12.63931053	
Carbolux	355	20	20	2.816	98.162	2.868727206	
Carbolux	250	20	20	0.259	98.162	0.263849555	
Carbolux	180	20	20	0.206	98.162	0.209857175	
Carbolux	125	20	20	0.066	98.162	0.067235794	
Carbolux	63	20	20	0.087	98.162	0.088629001	
Carbolux	45	20	20	0.017	98.162	0.017318311	
Carbolux	0	20	20	0.016	98.162	0.016299586	
Carbolux	2800	25	20	0.061	89.602	0.068078838	
Carbolux	1400	25	20	0.313	89.602	0.34932256	
Carbolux	1000	25	20	3.686	89.602	4.113747461	

Carbolux	710	25	121	20	66.215	89.602	73.89902011
Carbolux	500	25	121	20	14.463	89.602	16.14138077
Carbolux	355	25	121	20	3.953	89.602	4.411731881
Carbolux	250	25	121	20	0.373	89.602	0.416285351
Carbolux	180	25	121	20	0.246	89.602	0.274547443
Carbolux	125	25	121	20	0.133	89.602	0.148434187
Carbolux	63	25	121	20	0.103	89.602	0.114952791
Carbolux	45	25	121	20	0.026	89.602	0.029017209
Carbolux	0	25	121	20	0.03	89.602	0.033481396
Carbolux	2800	30	121	20	0.058	93.249	0.062199058
Carbolux	1400	30	121	20	0.247	93.249	0.264882197
Carbolux	1000	30	121	20	3.247	93.249	3.482074875
Carbolux	710	30	121	20	64.328	93.249	68.98519019
Carbolux	500	30	121	20	17.912	93.249	19.20878508
Carbolux	355	30	121	20	5.927	93.249	6.356100334
Carbolux	250	30	121	20	0.594	93.249	0.63700415
Carbolux	180	30	121	20	0.416	93.249	0.446117385
Carbolux	125	30	121	20	0.222	93.249	0.238072258
Carbolux	63	30	121	20	0.195	93.249	0.209117524
Carbolux	45	30	121	20	0.06	93.249	0.064343854
Carbolux	0	30	121	20	0.043	93.249	0.046113095
Carbolux	2800	35	121	20	0.062	102.973	0.060209958
Carbolux	1400	35	121	20	0.181	102.973	0.175774232
Carbolux	1000	35	121	20	2.139	102.973	2.077243549
Carbolux	710	35	121	20	64.413	102.973	62.55329067
Carbolux	500	35	121	20	23.586	102.973	22.90503336
Carbolux	355	35	121	20	10.071	102.973	9.780233653
Carbolux	250	35	121	20	1.026	102.973	0.996377691
Carbolux	180	35	121	20	0.672	102.973	0.652598254
Carbolux	125	35	121	20	0.366	102.973	0.355432978
Carbolux	63	35	121	20	0.31	102.973	0.30104979
Carbolux	45	35	121	20	0.08	102.973	0.077690268

Carbolux	0	35	121	20	0.067	102.973	0.0650656
Carbolux	2800	15	121	90	0.039	84.575	0.046112918 Foam
Carbolux	1400	15	121	90	0.364	84.575	0.43038723 Foam
Carbolux	1000	15	121	90	2.714	84.575	3.208986107 Foam
Carbolux	710	15	121	90	66.476	84.575	78.60005912 Foam
Carbolux	500	15	121	90	12.082	84.575	14.28554537 Foam
Carbolux	355	15	121	90	2.465	84.575	2.914572864 Foam
Carbolux	250	15	121	90	0.185	84.575	0.218740763 Foam
Carbolux	180	15	121	90	0.132	84.575	0.15607449 Foam
Carbolux	125	15	121	90	0.065	84.575	0.076854863 Foam
Carbolux	63	15	121	90	0.039	84.575	0.046112918 Foam
Carbolux	45	15	121	90	0.008	84.575	0.00945906 Foam
Carbolux	0	15	121	90	0.006	84.575	0.007094295 Foam
Carbolux	2800	20	121	90	0.027	92.486	0.029193608 Foam
Carbolux	1400	20	121	90	0.265	92.486	0.286529853 Foam
Carbolux	1000	20	121	90	2.46	92.486	2.659862033 Foam
Carbolux	710	20	121	90	65.929	92.486	71.28538373 Foam
Carbolux	500	20	121	90	17.735	92.486	19.17587527 Foam
Carbolux	355	20	121	90	5.181	92.486	5.601928941 Foam
Carbolux	250	20	121	90	0.377	92.486	0.407629263 Foam
Carbolux	180	20	121	90	0.242	92.486	0.261661224 Foam
Carbolux	125	20	121	90	0.136	92.486	0.147049283 Foam
Carbolux	63	20	121	90	0.088	92.486	0.095149536 Foam
Carbolux	45	20	121	90	0.038	92.486	0.0410873 Foam
Carbolux	0	20	121	90	0.008	92.486	0.008649958 Foam
Carbolux	2800	25	121	90	0.023	74.26	0.03097226 Foam
Carbolux	1400	25	121	90	0.083	74.26	0.111769459 Foam
Carbolux	1000	25	121	90	1.499	74.26	2.018583356 Foam
Carbolux	710	25	121	90	45.805	74.26	61.68192836 Foam
Carbolux	500	25	121	90	18.674	74.26	25.14678158 Foam
Carbolux	355	25	121	90	6.905	74.26	9.298410988 Foam
Carbolux	250	25	121	90	0.554	74.26	0.746027471 Foam

Carbolux	180	25	121	90	0.351	74.26	0.472663614	Foam
Carbolux	125	25	121	90	0.195	74.26	0.262590897	Foam
Carbolux	63	25	121	90	0.134	74.26	0.180447078	Foam
Carbolux	45	25	121	90	0.028	74.26	0.03770536	Foam
Carbolux	0	25	121	90	0.009	74.26	0.01211958	Foam
Carbolux	2800	30	121	90	0	88.675	0	Foam
Carbolux	1400	30	121	90	0.115	88.675	0.129687059	Foam
Carbolux	1000	30	121	90	1.253	88.675	1.413025092	Foam
Carbolux	710	30	121	90	47.556	88.675	53.6295461	Foam
Carbolux	500	30	121	90	25.183	88.675	28.3992106	Foam
Carbolux	355	30	121	90	11.901	88.675	13.42091909	Foam
Carbolux	250	30	121	90	1.134	88.675	1.278827178	Foam
Carbolux	180	30	121	90	0.735	88.675	0.828869467	Foam
Carbolux	125	30	121	90	0.414	88.675	0.466873414	Foam
Carbolux	63	30	121	90	0.282	88.675	0.318015224	Foam
Carbolux	45	30	121	90	0.067	88.675	0.075556809	Foam
Carbolux	0	30	121	90	0.035	88.675	0.039469975	Foam
Carbolux	2800	35	121	90	0	104.976	0	Foam
Carbolux	1400	35	121	90	0.137	104.976	0.13050602	Foam
Carbolux	1000	35	121	90	1.038	104.976	0.988797439	Foam
Carbolux	710	35	121	90	48.963	104.976	46.64208962	Foam
Carbolux	500	35	121	90	32.148	104.976	30.62414266	Foam
Carbolux	355	35	121	90	17.8	104.976	16.95625667	Foam
Carbolux	250	35	121	90	2.051	104.976	1.953779912	Foam
Carbolux	180	35	121	90	1.314	104.976	1.251714678	Foam
Carbolux	125	35	121	90	0.778	104.976	0.74112178	Foam
Carbolux	63	35	121	90	0.552	104.976	0.525834476	Foam
Carbolux	45	35	121	90	0.125	104.976	0.119074836	Foam
Carbolux	0	35	121	90	0.07	104.976	0.066681908	Foam
Carbolux	2800	15	121	20	0.097	88.776	0.109263765	Foam
Carbolux	1400	15	121	20	0.25	88.776	0.281607642	Foam
Carbolux	1000	15	121	20	4.883	88.776	5.500360458	Foam

Carbolux	710	15	121	20	75.321	88.776	84.84387672	Foam
Carbolux	500	15	121	20	6.768	88.776	7.623682076	Foam
Carbolux	355	15	121	20	1.07	88.776	1.205280706	Foam
Carbolux	250	15	121	20	0.186	88.776	0.209516085	Foam
Carbolux	180	15	121	20	0.134	88.776	0.150941696	Foam
Carbolux	125	15	121	20	0.042	88.776	0.047310084	Foam
Carbolux	63	15	121	20	0.011	88.776	0.012390736	Foam
Carbolux	45	15	121	20	0.012	88.776	0.013517167	Foam
Carbolux	0	15	121	20	0.002	88.776	0.002252861	Foam
Carbolux	2800	20	121	20	0.024	82.419	0.029119499	Foam
Carbolux	1400	20	121	20	0.271	82.419	0.328807678	Foam
Carbolux	1000	20	121	20	3.028	82.419	3.673910142	Foam
Carbolux	710	20	121	20	68.347	82.419	82.926267	Foam
Carbolux	500	20	121	20	8.787	82.419	10.66137662	Foam
Carbolux	355	20	121	20	1.637	82.419	1.986192504	Foam
Carbolux	250	20	121	20	0.169	82.419	0.205049806	Foam
Carbolux	180	20	121	20	0.096	82.419	0.116477997	Foam
Carbolux	125	20	121	20	0.016	82.419	0.019412999	Foam
Carbolux	63	20	121	20	0.042	82.419	0.050959124	Foam
Carbolux	45	20	121	20	0.001	82.419	0.001213312	Foam
Carbolux	0	20	121	20	0.001	82.419	0.001213312	Foam
Carbolux	2800	25	121	20	0.086	87.237	0.098582024	Foam
Carbolux	1400	25	121	20	0.257	87.237	0.294599768	Foam
Carbolux	1000	25	121	20	3.35	87.237	3.840113713	Foam
Carbolux	710	25	121	20	70.17	87.237	80.43605351	Foam
Carbolux	500	25	121	20	10.825	87.237	12.40872566	Foam
Carbolux	355	25	121	20	2.068	87.237	2.370553779	Foam
Carbolux	250	25	121	20	0.214	87.237	0.245308757	Foam
Carbolux	180	25	121	20	0.135	87.237	0.154750851	Foam
Carbolux	125	25	121	20	0.065	87.237	0.074509669	Foam
Carbolux	63	25	121	20	0.05	87.237	0.05731513	Foam
Carbolux	45	25	121	20	0.013	87.237	0.014901934	Foam

Carbolux	0	25	121	20	0.004	87.237	0.00458521	Foam	5
Carbolux	2800	30	121	20	0.142	85.768	0.165562914	Foam	5
Carbolux	1400	30	121	20	0.302	85.768	0.352112676	Foam	5
Carbolux	1000	30	121	20	2.802	85.768	3.26695271	Foam	5
Carbolux	710	30	121	20	66.236	85.768	77.22693779	Foam	5
Carbolux	500	30	121	20	12.719	85.768	14.82954015	Foam	5
Carbolux	355	30	121	20	2.936	85.768	3.423188135	Foam	5
Carbolux	250	30	121	20	0.268	85.768	0.312470852	Foam	5
Carbolux	180	30	121	20	0.182	85.768	0.212200354	Foam	5
Carbolux	125	30	121	20	0.09	85.768	0.104934241	Foam	5
Carbolux	63	30	121	20	0.075	85.768	0.087445201	Foam	5
Carbolux	45	30	121	20	0.011	85.768	0.012825296	Foam	5
Carbolux	0	30	121	20	0.005	85.768	0.00582968	Foam	5
Carbolux	2800	35	121	20	0.03	90.184	0.033265324	Foam	5
Carbolux	1400	35	121	20	0.3	90.184	0.332653242	Foam	5
Carbolux	1000	35	121	20	2.65	90.184	2.938436973	Foam	5
Carbolux	710	35	121	20	66.784	90.184	74.0530471	Foam	5
Carbolux	500	35	121	20	15.228	90.184	16.88547858	Foam	5
Carbolux	355	35	121	20	4.248	90.184	4.71036991	Foam	5
Carbolux	250	35	121	20	0.416	90.184	0.461279163	Foam	5
Carbolux	180	35	121	20	0.259	90.184	0.287190632	Foam	5
Carbolux	125	35	121	20	0.144	90.184	0.159673556	Foam	5
Carbolux	63	35	121	20	0.104	90.184	0.115319791	Foam	5
Carbolux	45	35	121	20	0.01	90.184	0.011088441	Foam	5
Carbolux	0	35	121	20	0.011	90.184	0.012197286	Foam	5
Carbolux	2800 Virgin		0	0	0.184	103.913	0.177071204		5
Carbolux	1400 Virgin		0	0	0.308	103.913	0.296401798		5
Carbolux	1000 Virgin		0	0	4.155	103.913	3.998537238		5
Carbolux	710 Virgin		0	0	91.864	103.913	88.40472318		5
Carbolux	500 Virgin		0	0	6.532	103.913	6.286027735		5
Carbolux	355 Virgin		0	0	0.581	103.913	0.559121573		5
Carbolux	250 Virgin		0	0	0.113	103.913	0.108744815		5

Carbolux	180 Virgin	0	0	0.058	103.913	0.055815923	5
Carbolux	125 Virgin	0	0	0.045	103.913	0.043305457	5
Carbolux	63 Virgin	0	0	0.054	103.913	0.051966549	5
Carbolux	45 Virgin	0	0	0.015	103.913	0.014435152	5
Carbolux	0 Virgin	0	0	0.004	103.913	0.003849374	5

M.2 Sodium Chloride

Material	Sieve	Impact Velocity (m/s)	Feed (unloaded RPM)	Impact Angle (deg)	Mass	Sample Mass	% Ret	rep
Salt	2800 Virgin		0	0	0	107.281	0	1
Salt	1400 Virgin		0	0	0	107.281	0	1
Salt	1000 Virgin		0	0	0	107.281	0	1
Salt	710 Virgin		0	0	0.072	107.281	0.067113468	1
Salt	500 Virgin		0	0	2.195	107.281	2.046028654	1
Salt	355 Virgin		0	0	56.445	107.281	52.61416281	1
Salt	250 Virgin		0	0	23.825	107.281	22.20803311	1
Salt	180 Virgin		0	0	15.569	107.281	14.5123554	1
Salt	125 Virgin		0	0	5.273	107.281	4.915129426	1
Salt	63 Virgin		0	0	2.363	107.281	2.202626747	1
Salt	45 Virgin		0	0	0.55	107.281	0.512672328	1
Salt	0 Virgin		0	0	0.989	107.281	0.921878059	1
Salt	2800 Virgin		0	0	0	90.977	0	2
Salt	1400 Virgin		0	0	0	90.977	0	2
Salt	1000 Virgin		0	0	0	90.977	0	2
Salt	710 Virgin		0	0	0.01	90.977	0.010991789	2
Salt	500 Virgin		0	0	2.111	90.977	2.320366686	2
Salt	355 Virgin		0	0	49.029	90.977	53.89164294	2
Salt	250 Virgin		0	0	19.642	90.977	21.59007222	2
Salt	180 Virgin		0	0	12.948	90.977	14.23216857	2
Salt	125 Virgin		0	0	4.246	90.977	4.667113666	2
Salt	63 Virgin		0	0	1.779	90.977	1.955439287	2
Salt	45 Virgin		0	0	0.432	90.977	0.474845291	2
Salt	0 Virgin		0	0	0.78	90.977	0.857359552	2
Salt	2800 Virgin		0	0	0	96.579	0	3
Salt	1400 Virgin		0	0	0	96.579	0	3
Salt	1000 Virgin		0	0	0.013	96.579	0.013460483	3
Salt	710 Virgin		0	0	0.066	96.579	0.068337837	3
Salt	500 Virgin		0	0	2.12	96.579	2.195094172	3
Salt	355 Virgin		0	0	50.788	96.579	52.58700131	3
Salt	250 Virgin		0	0	21.332	96.579	22.08761739	3

Salt	180 Virgin	0	0	14.04	96.579	14.53732178	3
Salt	125 Virgin	0	0	4.755	96.579	4.923430559	3
Salt	63 Virgin	0	0	2.113	96.579	2.187846219	3
Salt	45 Virgin	0	0	0.577	96.579	0.597438367	3
Salt	0 Virgin	0	0	0.775	96.579	0.802451879	3
Salt	2800	15	121	0	82.167	0	
Salt	1400	15	121	0	82.167	0	
Salt	1000	15	121	0.015	82.167	0.018255504	
Salt	710	15	121	0.019	82.167	0.023123638	
Salt	500	15	121	1.031	82.167	1.254761644	
Salt	355	15	121	41.819	82.167	50.89512821	
Salt	250	15	121	19.588	82.167	23.8392542	
Salt	180	15	121	12.764	82.167	15.5342169	
Salt	125	15	121	4.234	82.167	5.152920272	
Salt	63	15	121	1.765	82.167	2.148064308	
Salt	45	15	121	0.4	82.167	0.486813441	
Salt	0	15	121	0.532	82.167	0.647461876	
Salt	2800	20	121	0	87.655	0	
Salt	1400	20	121	0	87.655	0	
Salt	1000	20	121	0	87.655	0	
Salt	710	20	121	0.051	87.655	0.058182648	
Salt	500	20	121	0.747	87.655	0.852204666	
Salt	355	20	121	41.881	87.655	47.77936227	
Salt	250	20	121	21.368	87.655	24.37738863	
Salt	180	20	121	14.898	87.655	16.9961782	
Salt	125	20	121	5.343	87.655	6.095487993	
Salt	63	20	121	2.251	87.655	2.56802236	
Salt	45	20	121	0.513	87.655	0.585248988	
Salt	0	20	121	0.603	87.655	0.687924248	
Salt	2800	25	65	0	87.794	0	
Salt	1400	25	65	0	87.794	0	
Salt	1000	25	65	0.031	87.794	0.03530993	

Salt	710	25	65	90	0.046	87.794	0.05239538
Salt	500	25	65	90	0.474	87.794	0.539900221
Salt	355	25	65	90	35.584	87.794	40.53124359
Salt	250	25	65	90	23.455	87.794	26.7159487
Salt	180	25	65	90	17.14	87.794	19.52297424
Salt	125	25	65	90	6.728	87.794	7.663393854
Salt	63	25	65	90	2.99	87.794	3.405699706
Salt	45	25	65	90	0.629	87.794	0.716449871
Salt	0	25	65	90	0.717	87.794	0.816684511
Salt	2800	30	65	90	0	85.282	0
Salt	1400	30	65	90	0	85.282	0
Salt	1000	30	65	90	0.003	85.282	0.003517741
Salt	710	30	65	90	0.036	85.282	0.042212894
Salt	500	30	65	90	0.272	85.282	0.318941863
Salt	355	30	65	90	28.37	85.282	33.26610539
Salt	250	30	65	90	22.197	85.282	26.0277667
Salt	180	30	65	90	19.639	85.282	23.02830609
Salt	125	30	65	90	8.852	85.282	10.37968153
Salt	63	30	65	90	4.153	85.282	4.86972632
Salt	45	30	65	90	0.872	85.282	1.022490092
Salt	0	30	65	90	0.888	85.282	1.041251378
Salt	2800	35	65	90	0	82.893	0
Salt	1400	35	65	90	0	82.893	0
Salt	1000	35	65	90	0	82.893	0
Salt	710	35	65	90	0.037	82.893	0.044635856
Salt	500	35	65	90	0.185	82.893	0.223179279
Salt	355	35	65	90	22.756	82.893	27.45225773
Salt	250	35	65	90	20.403	82.893	24.61365857
Salt	180	35	65	90	21.028	82.893	25.36764262
Salt	125	35	65	90	10.838	82.893	13.07468664
Salt	63	35	65	90	5.465	82.893	6.592836548
Salt	45	35	65	90	1.031	82.893	1.243772092

Salt	0	35	90	1.15	82.893	1.387330655
Salt	2800	15	45	0	91.53	0
Salt	1400	15	45	0	91.53	0
Salt	1000	15	45	0	91.53	0
Salt	710	15	45	0.048	91.53	0.052441822
Salt	500	15	45	1.499	91.53	1.637714411
Salt	355	15	45	48.099	91.53	52.54998361
Salt	250	15	45	21.114	91.53	23.06784661
Salt	180	15	45	13.245	91.53	14.47066536
Salt	125	15	45	4.54	91.53	4.960122364
Salt	63	15	45	1.932	91.53	2.11078335
Salt	45	15	45	0.481	91.53	0.525510761
Salt	0	15	45	0.572	91.53	0.624931716
Salt	2800	20	45	0	89.882	0
Salt	1400	20	45	0	89.882	0
Salt	1000	20	45	0	89.882	0
Salt	710	20	45	0.027	89.882	0.030039385
Salt	500	20	45	1.063	89.882	1.182661712
Salt	355	20	45	45.385	89.882	50.493981
Salt	250	20	45	21.717	89.882	24.16167865
Salt	180	20	45	13.948	89.882	15.51812376
Salt	125	20	45	4.735	89.882	5.268018068
Salt	63	20	45	2.018	89.882	2.245165884
Salt	45	20	45	0.491	89.882	0.546271779
Salt	0	20	45	0.498	89.882	0.554059767
Salt	2800	25	45	0	87.855	0
Salt	1400	25	45	0	87.855	0
Salt	1000	25	45	0	87.855	0
Salt	710	25	45	0.033	87.855	0.037561892
Salt	500	25	45	0.739	87.855	0.841158727
Salt	355	25	45	40.732	87.855	46.36275682
Salt	250	25	45	22.288	87.855	25.36907404

Salt	180	25	65	45	15.172	87.855	17.26936429
Salt	125	25	65	45	5.443	87.855	6.195435661
Salt	63	25	65	45	2.322	87.855	2.642991292
Salt	45	25	65	45	0.588	87.855	0.669284617
Salt	0	25	65	45	0.538	87.855	0.612372659
Salt	2800	30	65	45	0	85.052	0
Salt	1400	30	65	45	0	85.052	0
Salt	1000	30	65	45	0	85.052	0
Salt	710	30	65	45	0.038	85.052	0.04467855
Salt	500	30	65	45	0.468	85.052	0.550251611
Salt	355	30	65	45	35.241	85.052	41.43465174
Salt	250	30	65	45	22.488	85.052	26.44029535
Salt	180	30	65	45	16.201	85.052	19.04834689
Salt	125	30	65	45	6.37	85.052	7.489535813
Salt	63	30	65	45	2.909	85.052	3.420260546
Salt	45	30	65	45	0.679	85.052	0.798335136
Salt	0	30	65	45	0.658	85.052	0.773644359
Salt	2800	35	65	45	0	87.383	0
Salt	1400	35	65	45	0	87.383	0
Salt	1000	35	65	45	0	87.383	0
Salt	710	35	65	45	0.055	87.383	0.062941304
Salt	500	35	65	45	0.284	87.383	0.325006008
Salt	355	35	65	45	30.682	87.383	35.11209274
Salt	250	35	65	45	23.324	87.383	26.6916906
Salt	180	35	65	45	18.726	87.383	21.42979756
Salt	125	35	65	45	8.363	87.383	9.570511427
Salt	63	35	65	45	4.068	87.383	4.655367749
Salt	45	35	65	45	0.863	87.383	0.987606285
Salt	0	35	65	45	1.018	87.383	1.164986325

M.3 Spent FCC Catalyst

Test ID	Type	Impact Velocity (m/s)	Impact Angle (deg)	Size (um)	Average %Ret	Virgin %Ret	Mag Dev
T1	T	15	90	0.01	0	0	0
T1	T	15	90	0.0114	0	0	0
T1	T	15	90	0.0129	0	0	0
T1	T	15	90	0.0147	0	0	0
T1	T	15	90	0.0167	0	0	0
T1	T	15	90	0.0189	0	0	0
T1	T	15	90	0.0215	0	0	0
T1	T	15	90	0.0244	0	0	0
T1	T	15	90	0.0278	0	0	0
T1	T	15	90	0.0315	0	0	0
T1	T	15	90	0.0358	0	0	0
T1	T	15	90	0.0407	0	0	0
T1	T	15	90	0.0463	0	0	0
T1	T	15	90	0.0526	0	0	0
T1	T	15	90	0.0597	0	0	0
T1	T	15	90	0.0679	0	0	0
T1	T	15	90	0.0771	0	0	0
T1	T	15	90	0.0876	0	0	0
T1	T	15	90	0.0995	0	0	0
T1	T	15	90	0.113	0	0	0
T1	T	15	90	0.128	0	0	0
T1	T	15	90	0.146	0	0	0
T1	T	15	90	0.166	0	0	0
T1	T	15	90	0.188	0	0	0
T1	T	15	90	0.214	0	0	0
T1	T	15	90	0.243	0	0	0
T1	T	15	90	0.276	0	0	0
T1	T	15	90	0.314	0	0	0
T1	T	15	90	0.357	0	0	0
T1	T	15	90	0.405	0	0	0
T1	T	15	90	0.46	0	0	0
T1	T	15	90	0.523	0	0	0
T1	T	15	90	0.594	0	0	0
T1	T	15	90	0.675	0	0	0
T1	T	15	90	0.767	0	0	0
T1	T	15	90	0.872	0	0	0
T1	T	15	90	0.991	0	0	0
T1	T	15	90	1.13	0	0	0
T1	T	15	90	1.28	0	0	0
T1	T	15	90	1.45	0	0	0
T1	T	15	90	1.65	0	0	0
T1	T	15	90	1.88	0	0	0
T1	T	15	90	2.13	0	0	0
T1	T	15	90	2.42	0	0	0
T1	T	15	90	2.75	0	0	0
T1	T	15	90	3.12	0	0	0
T1	T	15	90	3.55	0	0	0
T1	T	15	90	4.03	0	0	0
T1	T	15	90	4.58	0	0	0
T1	T	15	90	5.21	0	0	0
T1	T	15	90	5.92	0	0	0
T1	T	15	90	6.72	0	0	0
T1	T	15	90	7.64	0	0	0
T1	T	15	90	8.68	0	0	0
T1	T	15	90	9.86	0	0	0
T1	T	15	90	11.2	0	0	0
T1	T	15	90	12.7	0	0	0
T1	T	15	90	14.5	0	0	0
T1	T	15	90	16.4	0	0	0
T1	T	15	90	18.7	0	0	0
T1	T	15	90	21.2	0	0	0
T1	T	15	90	24.1	0	0	0
T1	T	15	90	27.4	0	0.168333333	-0.168333

T1	T	15	90	31.1	0.21	0.748333333	-0.538333
T1	T	15	90	35.3	0.986666667	1.935	-0.948333
T1	T	15	90	40.1	2.543333333	3.75	-1.206667
T1	T	15	90	45.6	4.843333333	6.048333333	-1.205
T1	T	15	90	51.8	7.6	8.515	-0.915
T1	T	15	90	58.9	10.31	10.73333333	-0.423333
T1	T	15	90	66.9	12.42	12.28	0.14
T1	T	15	90	76	13.47333333	12.83	0.643333
T1	T	15	90	86.4	13.22666667	12.265	0.961667
T1	T	15	90	98.1	11.75	10.68833333	1.061667
T1	T	15	90	111	9.366666667	8.408333333	0.958333
T1	T	15	90	127	6.596666667	5.86	0.736667
T1	T	15	90	144	3.976666667	3.493333333	0.483333
T1	T	15	90	163	1.93	1.666666667	0.263333
T1	T	15	90	186	0.66	0.54	0.12
T1	T	15	90	211	0.106666667	0.071666667	0.035
T1	T	15	90	240	0	0	0
T1	T	15	90	272	0	0	0
T1	T	15	90	310	0	0	0
T1	T	15	90	352	0	0	0
T1	T	15	90	400	0	0	0
T1	T	15	90	454	0	0	0
T1	T	15	90	516	0	0	0
T1	T	15	90	586	0	0	0
T1	T	15	90	666	0	0	0
T1	T	15	90	756	0	0	0
T1	T	15	90	859	0	0	0
T1	T	15	90	976	0	0	0
T1	T	15	90	1110	0	0	0
T1	T	15	90	1260	0	0	0
T1	T	15	90	1430	0	0	0
T1	T	15	90	1630	0	0	0
T1	T	15	90	1850	0	0	0
T1	T	15	90	2100	0	0	0
T1	T	15	90	2390	0	0	0
T1	T	15	90	2710	0	0	0
T1	T	15	90	3080	0	0	0
T2	T	25	90	0.01	0	0	0
T2	T	25	90	0.0114	0	0	0
T2	T	25	90	0.0129	0	0	0
T2	T	25	90	0.0147	0	0	0
T2	T	25	90	0.0167	0	0	0
T2	T	25	90	0.0189	0	0	0
T2	T	25	90	0.0215	0	0	0
T2	T	25	90	0.0244	0	0	0
T2	T	25	90	0.0278	0	0	0
T2	T	25	90	0.0315	0	0	0
T2	T	25	90	0.0358	0	0	0
T2	T	25	90	0.0407	0	0	0
T2	T	25	90	0.0463	0	0	0
T2	T	25	90	0.0526	0	0	0
T2	T	25	90	0.0597	0	0	0
T2	T	25	90	0.0679	0	0	0
T2	T	25	90	0.0771	0	0	0
T2	T	25	90	0.0876	0	0	0
T2	T	25	90	0.0995	0	0	0
T2	T	25	90	0.113	0	0	0
T2	T	25	90	0.128	0	0	0
T2	T	25	90	0.146	0	0	0
T2	T	25	90	0.166	0	0	0
T2	T	25	90	0.188	0	0	0
T2	T	25	90	0.214	0	0	0
T2	T	25	90	0.243	0	0	0
T2	T	25	90	0.276	0	0	0

T2	T	25	90	0.314	0	0	0
T2	T	25	90	0.357	0	0	0
T2	T	25	90	0.405	0	0	0
T2	T	25	90	0.46	0	0	0
T2	T	25	90	0.523	0	0	0
T2	T	25	90	0.594	0	0	0
T2	T	25	90	0.675	0	0	0
T2	T	25	90	0.767	0	0	0
T2	T	25	90	0.872	0	0	0
T2	T	25	90	0.991	0	0	0
T2	T	25	90	1.13	0	0	0
T2	T	25	90	1.28	0	0	0
T2	T	25	90	1.45	0	0	0
T2	T	25	90	1.65	0	0	0
T2	T	25	90	1.88	0	0	0
T2	T	25	90	2.13	0	0	0
T2	T	25	90	2.42	0	0	0
T2	T	25	90	2.75	0	0	0
T2	T	25	90	3.12	0	0	0
T2	T	25	90	3.55	0	0	0
T2	T	25	90	4.03	0	0	0
T2	T	25	90	4.58	0	0	0
T2	T	25	90	5.21	0	0	0
T2	T	25	90	5.92	0	0	0
T2	T	25	90	6.72	0	0	0
T2	T	25	90	7.64	0	0	0
T2	T	25	90	8.68	0	0	0
T2	T	25	90	9.86	0	0	0
T2	T	25	90	11.2	0	0	0
T2	T	25	90	12.7	0	0	0
T2	T	25	90	14.5	0	0	0
T2	T	25	90	16.4	0	0	0
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T2	T	25	90	21.2	0	0	0
T2	T	25	90	24.1	0	0	0
T2	T	25	90	27.4	0.09	0.168333333	-0.078333
T2	T	25	90	31.1	0.543333333	0.748333333	-0.205
T2	T	25	90	35.3	1.576666667	1.935	-0.358333
T2	T	25	90	40.1	3.283333333	3.75	-0.466667
T2	T	25	90	45.6	5.54	6.048333333	-0.508333
T2	T	25	90	51.8	8.043333333	8.515	-0.471667
T2	T	25	90	58.9	10.376666667	10.733333333	-0.356667
T2	T	25	90	66.9	12.103333333	12.28	-0.176667
T2	T	25	90	76	12.873333333	12.83	0.043333
T2	T	25	90	86.4	12.513333333	12.265	0.248333
T2	T	25	90	98.1	11.096666667	10.688333333	0.408333
T2	T	25	90	111	8.896666667	8.408333333	0.488333
T2	T	25	90	127	6.346666667	5.86	0.486667
T2	T	25	90	144	3.913333333	3.493333333	0.42
T2	T	25	90	163	1.966666667	1.666666667	0.3
T2	T	25	90	186	0.706666667	0.54	0.166667
T2	T	25	90	211	0.126666667	0.071666667	0.055
T2	T	25	90	240	0	0	0
T2	T	25	90	272	0	0	0
T2	T	25	90	310	0	0	0
T2	T	25	90	352	0	0	0
T2	T	25	90	400	0	0	0
T2	T	25	90	454	0	0	0
T2	T	25	90	516	0	0	0
T2	T	25	90	586	0	0	0
T2	T	25	90	666	0	0	0
T2	T	25	90	756	0	0	0
T2	T	25	90	859	0	0	0
T2	T	25	90	976	0	0	0

T2	T	25	90	1110	0	0	0
T2	T	25	90	1260	0	0	0
T2	T	25	90	1430	0	0	0
T2	T	25	90	1630	0	0	0
T2	T	25	90	1850	0	0	0
T2	T	25	90	2100	0	0	0
T2	T	25	90	2390	0	0	0
T2	T	25	90	2710	0	0	0
T2	T	25	90	3080	0	0	0
T3	T	35	90	0.01	0	0	0
T3	T	35	90	0.0114	0	0	0
T3	T	35	90	0.0129	0	0	0
T3	T	35	90	0.0147	0	0	0
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T3	T	35	90	0.0315	0	0	0
T3	T	35	90	0.0358	0	0	0
T3	T	35	90	0.0407	0	0	0
T3	T	35	90	0.0463	0	0	0
T3	T	35	90	0.0526	0	0	0
T3	T	35	90	0.0597	0	0	0
T3	T	35	90	0.0679	0	0	0
T3	T	35	90	0.0771	0	0	0
T3	T	35	90	0.0876	0	0	0
T3	T	35	90	0.0995	0	0	0
T3	T	35	90	0.113	0	0	0
T3	T	35	90	0.128	0	0	0
T3	T	35	90	0.146	0	0	0
T3	T	35	90	0.166	0	0	0
T3	T	35	90	0.188	0	0	0
T3	T	35	90	0.214	0	0	0
T3	T	35	90	0.243	0	0	0
T3	T	35	90	0.276	0	0	0
T3	T	35	90	0.314	0	0	0
T3	T	35	90	0.357	0	0	0
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T3	T	35	90	0.46	0	0	0
T3	T	35	90	0.523	0	0	0
T3	T	35	90	0.594	0	0	0
T3	T	35	90	0.675	0	0	0
T3	T	35	90	0.767	0	0	0
T3	T	35	90	0.872	0	0	0
T3	T	35	90	0.991	0	0	0
T3	T	35	90	1.13	0	0	0
T3	T	35	90	1.28	0	0	0
T3	T	35	90	1.45	0	0	0
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T3	T	35	90	8.68	0	0	0
T3	T	35	90	9.86	0	0	0

T3	T	35	90	11.2	0	0	0
T3	T	35	90	12.7	0	0	0
T3	T	35	90	14.5	0	0	0
T3	T	35	90	16.4	0	0	0
T3	T	35	90	18.7	0	0	0
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T3	T	35	90	27.4	0.036666667	0.168333333	-0.131667
T3	T	35	90	31.1	0.39	0.748333333	-0.358333
T3	T	35	90	35.3	1.33	1.935	-0.605
T3	T	35	90	40.1	3.003333333	3.75	-0.746667
T3	T	35	90	45.6	5.32	6.048333333	-0.728333
T3	T	35	90	51.8	7.966666667	8.515	-0.548333
T3	T	35	90	58.9	10.48	10.733333333	-0.253333
T3	T	35	90	66.9	12.36	12.28	0.08
T3	T	35	90	76	13.203333333	12.83	0.373333
T3	T	35	90	86.4	12.83	12.265	0.565
T3	T	35	90	98.1	11.316666667	10.688333333	0.628333
T3	T	35	90	111	8.99	8.408333333	0.581667
T3	T	35	90	127	6.326666667	5.86	0.466667
T3	T	35	90	144	3.823333333	3.493333333	0.33
T3	T	35	90	163	1.866666667	1.666666667	0.2
T3	T	35	90	186	0.646666667	0.54	0.106667
T3	T	35	90	211	0.11	0.071666667	0.038333
T3	T	35	90	240	0	0	0
T3	T	35	90	272	0	0	0
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T4	T	15	45	0.0315	0	0	0
T4	T	15	45	0.0358	0	0	0
T4	T	15	45	0.0407	0	0	0
T4	T	15	45	0.0463	0	0	0
T4	T	15	45	0.0526	0	0	0
T4	T	15	45	0.0597	0	0	0
T4	T	15	45	0.0679	0	0	0
T4	T	15	45	0.0771	0	0	0
T4	T	15	45	0.0876	0	0	0
T4	T	15	45	0.0995	0	0	0

T4	T	15	45	0.113	0	0	0
T4	T	15	45	0.128	0	0	0
T4	T	15	45	0.146	0	0	0
T4	T	15	45	0.166	0	0	0
T4	T	15	45	0.188	0	0	0
T4	T	15	45	0.214	0	0	0
T4	T	15	45	0.243	0	0	0
T4	T	15	45	0.276	0	0	0
T4	T	15	45	0.314	0	0	0
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T4	T	15	45	0.46	0	0	0
T4	T	15	45	0.523	0	0	0
T4	T	15	45	0.594	0	0	0
T4	T	15	45	0.675	0	0	0
T4	T	15	45	0.767	0	0	0
T4	T	15	45	0.872	0	0	0
T4	T	15	45	0.991	0	0	0
T4	T	15	45	1.13	0	0	0
T4	T	15	45	1.28	0	0	0
T4	T	15	45	1.45	0	0	0
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T4	T	15	45	21.2	0	0	0
T4	T	15	45	24.1	0	0	0
T4	T	15	45	27.4	0.1533333333	0.1683333333	-0.015
T4	T	15	45	31.1	0.7166666667	0.7483333333	-0.031667
T4	T	15	45	35.3	1.87	1.935	-0.065
T4	T	15	45	40.1	3.6466666667	3.75	-0.103333
T4	T	15	45	45.6	5.9	6.0483333333	-0.148333
T4	T	15	45	51.8	8.3266666667	8.515	-0.188333
T4	T	15	45	58.9	10.53	10.7333333333	-0.203333
T4	T	15	45	66.9	12.0933333333	12.28	-0.186667
T4	T	15	45	76	12.71	12.83	-0.12
T4	T	15	45	86.4	12.24	12.265	-0.025
T4	T	15	45	98.1	10.7666666667	10.6883333333	0.078333
T4	T	15	45	111	8.58	8.4083333333	0.171667
T4	T	15	45	127	6.0866666667	5.86	0.226667
T4	T	15	45	144	3.73	3.4933333333	0.236667
T4	T	15	45	163	1.8633333333	1.6666666667	0.196667
T4	T	15	45	186	0.6666666667	0.54	0.126667
T4	T	15	45	211	0.1166666667	0.0716666667	0.045
T4	T	15	45	240	0	0	0
T4	T	15	45	272	0	0	0
T4	T	15	45	310	0	0	0
T4	T	15	45	352	0	0	0

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T4	T	15	45	516	0	0	0
T4	T	15	45	586	0	0	0
T4	T	15	45	666	0	0	0
T4	T	15	45	756	0	0	0
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T4	T	15	45	1110	0	0	0
T4	T	15	45	1260	0	0	0
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T4	T	15	45	1630	0	0	0
T4	T	15	45	1850	0	0	0
T4	T	15	45	2100	0	0	0
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T5	T	25	45	0.0315	0	0	0
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T5	T	25	45	0.0407	0	0	0
T5	T	25	45	0.0463	0	0	0
T5	T	25	45	0.0526	0	0	0
T5	T	25	45	0.0597	0	0	0
T5	T	25	45	0.0679	0	0	0
T5	T	25	45	0.0771	0	0	0
T5	T	25	45	0.0876	0	0	0
T5	T	25	45	0.0995	0	0	0
T5	T	25	45	0.113	0	0	0
T5	T	25	45	0.128	0	0	0
T5	T	25	45	0.146	0	0	0
T5	T	25	45	0.166	0	0	0
T5	T	25	45	0.188	0	0	0
T5	T	25	45	0.214	0	0	0
T5	T	25	45	0.243	0	0	0
T5	T	25	45	0.276	0	0	0
T5	T	25	45	0.314	0	0	0
T5	T	25	45	0.357	0	0	0
T5	T	25	45	0.405	0	0	0
T5	T	25	45	0.46	0	0	0
T5	T	25	45	0.523	0	0	0
T5	T	25	45	0.594	0	0	0
T5	T	25	45	0.675	0	0	0
T5	T	25	45	0.767	0	0	0
T5	T	25	45	0.872	0	0	0
T5	T	25	45	0.991	0	0	0
T5	T	25	45	1.13	0	0	0
T5	T	25	45	1.28	0	0	0
T5	T	25	45	1.45	0	0	0
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T5	T	25	45	3.12	0	0	0
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T5	T	25	45	4.03	0	0	0
T5	T	25	45	4.58	0	0	0
T5	T	25	45	5.21	0	0	0
T5	T	25	45	5.92	0	0	0
T5	T	25	45	6.72	0	0	0
T5	T	25	45	7.64	0	0	0
T5	T	25	45	8.68	0	0	0
T5	T	25	45	9.86	0	0	0
T5	T	25	45	11.2	0	0	0
T5	T	25	45	12.7	0	0	0
T5	T	25	45	14.5	0	0	0
T5	T	25	45	16.4	0	0	0
T5	T	25	45	18.7	0	0	0
T5	T	25	45	21.2	0	0	0
T5	T	25	45	24.1	0	0	0
T5	T	25	45	27.4	0.176666667	0.168333333	0.0083333
T5	T	25	45	31.1	0.786666667	0.748333333	0.0383333
T5	T	25	45	35.3	1.98	1.935	0.045
T5	T	25	45	40.1	3.786666667	3.75	0.036667
T5	T	25	45	45.6	6.053333333	6.048333333	0.005
T5	T	25	45	51.8	8.473333333	8.515	-0.041667
T5	T	25	45	58.9	10.636666667	10.733333333	-0.096667
T5	T	25	45	66.9	12.146666667	12.28	-0.133333
T5	T	25	45	76	12.7	12.83	-0.13
T5	T	25	45	86.4	12.166666667	12.265	-0.098333
T5	T	25	45	98.1	10.643333333	10.688333333	-0.045
T5	T	25	45	111	8.426666667	8.408333333	0.018333
T5	T	25	45	127	5.933333333	5.86	0.073333
T5	T	25	45	144	3.6	3.493333333	0.106667
T5	T	25	45	163	1.77	1.666666667	0.103333
T5	T	25	45	186	0.616666667	0.54	0.076667
T5	T	25	45	211	0.103333333	0.071666667	0.031667
T5	T	25	45	240	0	0	0
T5	T	25	45	272	0	0	0
T5	T	25	45	310	0	0	0
T5	T	25	45	352	0	0	0
T5	T	25	45	400	0	0	0
T5	T	25	45	454	0	0	0
T5	T	25	45	516	0	0	0
T5	T	25	45	586	0	0	0
T5	T	25	45	666	0	0	0
T5	T	25	45	756	0	0	0
T5	T	25	45	859	0	0	0
T5	T	25	45	976	0	0	0
T5	T	25	45	1110	0	0	0
T5	T	25	45	1260	0	0	0
T5	T	25	45	1430	0	0	0
T5	T	25	45	1630	0	0	0
T5	T	25	45	1850	0	0	0
T5	T	25	45	2100	0	0	0
T5	T	25	45	2390	0	0	0
T5	T	25	45	2710	0	0	0
T5	T	25	45	3080	0	0	0
T6	T	35	45	0.01	0	0	0
T6	T	35	45	0.0114	0	0	0
T6	T	35	45	0.0129	0	0	0
T6	T	35	45	0.0147	0	0	0
T6	T	35	45	0.0167	0	0	0
T6	T	35	45	0.0189	0	0	0
T6	T	35	45	0.0215	0	0	0
T6	T	35	45	0.0244	0	0	0
T6	T	35	45	0.0278	0	0	0
T6	T	35	45	0.0315	0	0	0
T6	T	35	45	0.0358	0	0	0

T6	T	35	45	0.0407	0	0	0
T6	T	35	45	0.0463	0	0	0
T6	T	35	45	0.0526	0	0	0
T6	T	35	45	0.0597	0	0	0
T6	T	35	45	0.0679	0	0	0
T6	T	35	45	0.0771	0	0	0
T6	T	35	45	0.0876	0	0	0
T6	T	35	45	0.0995	0	0	0
T6	T	35	45	0.113	0	0	0
T6	T	35	45	0.128	0	0	0
T6	T	35	45	0.146	0	0	0
T6	T	35	45	0.166	0	0	0
T6	T	35	45	0.188	0	0	0
T6	T	35	45	0.214	0	0	0
T6	T	35	45	0.243	0	0	0
T6	T	35	45	0.276	0	0	0
T6	T	35	45	0.314	0	0	0
T6	T	35	45	0.357	0	0	0
T6	T	35	45	0.405	0	0	0
T6	T	35	45	0.46	0	0	0
T6	T	35	45	0.523	0	0	0
T6	T	35	45	0.594	0	0	0
T6	T	35	45	0.675	0	0	0
T6	T	35	45	0.767	0	0	0
T6	T	35	45	0.872	0	0	0
T6	T	35	45	0.991	0	0	0
T6	T	35	45	1.13	0	0	0
T6	T	35	45	1.28	0	0	0
T6	T	35	45	1.45	0	0	0
T6	T	35	45	1.65	0	0	0
T6	T	35	45	1.88	0	0	0
T6	T	35	45	2.13	0	0	0
T6	T	35	45	2.42	0	0	0
T6	T	35	45	2.75	0	0	0
T6	T	35	45	3.12	0	0	0
T6	T	35	45	3.55	0	0	0
T6	T	35	45	4.03	0	0	0
T6	T	35	45	4.58	0	0	0
T6	T	35	45	5.21	0	0	0
T6	T	35	45	5.92	0	0	0
T6	T	35	45	6.72	0	0	0
T6	T	35	45	7.64	0	0	0
T6	T	35	45	8.68	0	0	0
T6	T	35	45	9.86	0	0	0
T6	T	35	45	11.2	0	0	0
T6	T	35	45	12.7	0	0	0
T6	T	35	45	14.5	0	0	0
T6	T	35	45	16.4	0	0	0
T6	T	35	45	18.7	0	0	0
T6	T	35	45	21.2	0	0	0
T6	T	35	45	24.1	0	0	0
T6	T	35	45	27.4	0.206666667	0.168333333	0.038333
T6	T	35	45	31.1	0.85	0.748333333	0.101667
T6	T	35	45	35.3	2.1	1.935	0.165
T6	T	35	45	40.1	3.96	3.75	0.21
T6	T	35	45	45.6	6.256666667	6.048333333	0.208333
T6	T	35	45	51.8	8.676666667	8.515	0.161667
T6	T	35	45	58.9	10.80333333	10.73333333	0.07
T6	T	35	45	66.9	12.24	12.28	-0.04
T6	T	35	45	76	12.69666667	12.83	-0.133333
T6	T	35	45	86.4	12.06666667	12.265	-0.198333
T6	T	35	45	98.1	10.46666667	10.68833333	-0.221667
T6	T	35	45	111	8.21	8.408333333	-0.198333
T6	T	35	45	127	5.72	5.86	-0.14

T6	T	35	45	144	3.426666667	3.493333333	-0.066667
T6	T	35	45	163	1.653333333	1.666666667	-0.013333
T6	T	35	45	186	0.56	0.54	0.02
T6	T	35	45	211	0.086666667	0.071666667	0.015
T6	T	35	45	240	0	0	0
T6	T	35	45	272	0	0	0
T6	T	35	45	310	0	0	0
T6	T	35	45	352	0	0	0
T6	T	35	45	400	0	0	0
T6	T	35	45	454	0	0	0
T6	T	35	45	516	0	0	0
T6	T	35	45	586	0	0	0
T6	T	35	45	666	0	0	0
T6	T	35	45	756	0	0	0
T6	T	35	45	859	0	0	0
T6	T	35	45	976	0	0	0
T6	T	35	45	1110	0	0	0
T6	T	35	45	1260	0	0	0
T6	T	35	45	1430	0	0	0
T6	T	35	45	1630	0	0	0
T6	T	35	45	1850	0	0	0
T6	T	35	45	2100	0	0	0
T6	T	35	45	2390	0	0	0
T6	T	35	45	2710	0	0	0
T6	T	35	45	3080	0	0	0
T7	T	15	30	0.01	0	0	0
T7	T	15	30	0.0114	0	0	0
T7	T	15	30	0.0129	0	0	0
T7	T	15	30	0.0147	0	0	0
T7	T	15	30	0.0167	0	0	0
T7	T	15	30	0.0189	0	0	0
T7	T	15	30	0.0215	0	0	0
T7	T	15	30	0.0244	0	0	0
T7	T	15	30	0.0278	0	0	0
T7	T	15	30	0.0315	0	0	0
T7	T	15	30	0.0358	0	0	0
T7	T	15	30	0.0407	0	0	0
T7	T	15	30	0.0463	0	0	0
T7	T	15	30	0.0526	0	0	0
T7	T	15	30	0.0597	0	0	0
T7	T	15	30	0.0679	0	0	0
T7	T	15	30	0.0771	0	0	0
T7	T	15	30	0.0876	0	0	0
T7	T	15	30	0.0995	0	0	0
T7	T	15	30	0.113	0	0	0
T7	T	15	30	0.128	0	0	0
T7	T	15	30	0.146	0	0	0
T7	T	15	30	0.166	0	0	0
T7	T	15	30	0.188	0	0	0
T7	T	15	30	0.214	0	0	0
T7	T	15	30	0.243	0	0	0
T7	T	15	30	0.276	0	0	0
T7	T	15	30	0.314	0	0	0
T7	T	15	30	0.357	0	0	0
T7	T	15	30	0.405	0	0	0
T7	T	15	30	0.46	0	0	0
T7	T	15	30	0.523	0	0	0
T7	T	15	30	0.594	0	0	0
T7	T	15	30	0.675	0	0	0
T7	T	15	30	0.767	0	0	0
T7	T	15	30	0.872	0	0	0
T7	T	15	30	0.991	0	0	0
T7	T	15	30	1.13	0	0	0
T7	T	15	30	1.28	0	0	0

T7	T	15	30	1.45	0	0	0
T7	T	15	30	1.65	0	0	0
T7	T	15	30	1.88	0	0	0
T7	T	15	30	2.13	0	0	0
T7	T	15	30	2.42	0	0	0
T7	T	15	30	2.75	0	0	0
T7	T	15	30	3.12	0	0	0
T7	T	15	30	3.55	0	0	0
T7	T	15	30	4.03	0	0	0
T7	T	15	30	4.58	0	0	0
T7	T	15	30	5.21	0	0	0
T7	T	15	30	5.92	0	0	0
T7	T	15	30	6.72	0	0	0
T7	T	15	30	7.64	0	0	0
T7	T	15	30	8.68	0	0	0
T7	T	15	30	9.86	0	0	0
T7	T	15	30	11.2	0	0	0
T7	T	15	30	12.7	0	0	0
T7	T	15	30	14.5	0	0	0
T7	T	15	30	16.4	0	0	0
T7	T	15	30	18.7	0	0	0
T7	T	15	30	21.2	0	0	0
T7	T	15	30	24.1	0	0	0
T7	T	15	30	27.4	0.2133333333	0.1683333333	0.045
T7	T	15	30	31.1	0.87	0.7483333333	0.121667
T7	T	15	30	35.3	2.1233333333	1.935	0.188333
T7	T	15	30	40.1	3.97	3.75	0.22
T7	T	15	30	45.6	6.2533333333	6.0483333333	0.205
T7	T	15	30	51.8	8.64	8.515	0.125
T7	T	15	30	58.9	10.7433333333	10.7333333333	0.01
T7	T	15	30	66.9	12.17	12.28	-0.11
T7	T	15	30	76	12.636666667	12.83	-0.193333
T7	T	15	30	86.4	12.026666667	12.265	-0.238333
T7	T	15	30	98.1	10.466666667	10.6883333333	-0.221667
T7	T	15	30	111	8.2433333333	8.4083333333	-0.165
T7	T	15	30	127	5.78	5.86	-0.08
T7	T	15	30	144	3.4833333333	3.4933333333	-0.01
T7	T	15	30	163	1.6966666667	1.6666666667	0.03
T7	T	15	30	186	0.5766666667	0.54	0.036667
T7	T	15	30	211	0.0866666667	0.0716666667	0.015
T7	T	15	30	240	0	0	0
T7	T	15	30	272	0	0	0
T7	T	15	30	310	0	0	0
T7	T	15	30	352	0	0	0
T7	T	15	30	400	0	0	0
T7	T	15	30	454	0	0	0
T7	T	15	30	516	0	0	0
T7	T	15	30	586	0	0	0
T7	T	15	30	666	0	0	0
T7	T	15	30	756	0	0	0
T7	T	15	30	859	0	0	0
T7	T	15	30	976	0	0	0
T7	T	15	30	1110	0	0	0
T7	T	15	30	1260	0	0	0
T7	T	15	30	1430	0	0	0
T7	T	15	30	1630	0	0	0
T7	T	15	30	1850	0	0	0
T7	T	15	30	2100	0	0	0
T7	T	15	30	2390	0	0	0
T7	T	15	30	2710	0	0	0
T7	T	15	30	3080	0	0	0
T8	T	25	30	0.01	0	0	0
T8	T	25	30	0.0114	0	0	0
T8	T	25	30	0.0129	0	0	0

T8	T	25	30	0.0147	0	0	0
T8	T	25	30	0.0167	0	0	0
T8	T	25	30	0.0189	0	0	0
T8	T	25	30	0.0215	0	0	0
T8	T	25	30	0.0244	0	0	0
T8	T	25	30	0.0278	0	0	0
T8	T	25	30	0.0315	0	0	0
T8	T	25	30	0.0358	0	0	0
T8	T	25	30	0.0407	0	0	0
T8	T	25	30	0.0463	0	0	0
T8	T	25	30	0.0526	0	0	0
T8	T	25	30	0.0597	0	0	0
T8	T	25	30	0.0679	0	0	0
T8	T	25	30	0.0771	0	0	0
T8	T	25	30	0.0876	0	0	0
T8	T	25	30	0.0995	0	0	0
T8	T	25	30	0.113	0	0	0
T8	T	25	30	0.128	0	0	0
T8	T	25	30	0.146	0	0	0
T8	T	25	30	0.166	0	0	0
T8	T	25	30	0.188	0	0	0
T8	T	25	30	0.214	0	0	0
T8	T	25	30	0.243	0	0	0
T8	T	25	30	0.276	0	0	0
T8	T	25	30	0.314	0	0	0
T8	T	25	30	0.357	0	0	0
T8	T	25	30	0.405	0	0	0
T8	T	25	30	0.46	0	0	0
T8	T	25	30	0.523	0	0	0
T8	T	25	30	0.594	0	0	0
T8	T	25	30	0.675	0	0	0
T8	T	25	30	0.767	0	0	0
T8	T	25	30	0.872	0	0	0
T8	T	25	30	0.991	0	0	0
T8	T	25	30	1.13	0	0	0
T8	T	25	30	1.28	0	0	0
T8	T	25	30	1.45	0	0	0
T8	T	25	30	1.65	0	0	0
T8	T	25	30	1.88	0	0	0
T8	T	25	30	2.13	0	0	0
T8	T	25	30	2.42	0	0	0
T8	T	25	30	2.75	0	0	0
T8	T	25	30	3.12	0	0	0
T8	T	25	30	3.55	0	0	0
T8	T	25	30	4.03	0	0	0
T8	T	25	30	4.58	0	0	0
T8	T	25	30	5.21	0	0	0
T8	T	25	30	5.92	0	0	0
T8	T	25	30	6.72	0	0	0
T8	T	25	30	7.64	0	0	0
T8	T	25	30	8.68	0	0	0
T8	T	25	30	9.86	0	0	0
T8	T	25	30	11.2	0	0	0
T8	T	25	30	12.7	0	0	0
T8	T	25	30	14.5	0	0	0
T8	T	25	30	16.4	0	0	0
T8	T	25	30	18.7	0	0	0
T8	T	25	30	21.2	0	0	0
T8	T	25	30	24.1	0	0	0
T8	T	25	30	27.4	0.26	0.1683333333	0.091667
T8	T	25	30	31.1	0.946666667	0.7483333333	0.198333
T8	T	25	30	35.3	2.213333333	1.935	0.278333
T8	T	25	30	40.1	4.046666667	3.75	0.296667
T8	T	25	30	45.6	6.286666667	6.048333333	0.238333

T8	T	25	30	51.8	8.613333333	8.515	0.098333
T8	T	25	30	58.9	10.66333333	10.73333333	-0.07
T8	T	25	30	66.9	12.05	12.28	-0.23
T8	T	25	30	76	12.51	12.83	-0.32
T8	T	25	30	86.4	11.93333333	12.265	-0.331667
T8	T	25	30	98.1	10.41666667	10.68833333	-0.271667
T8	T	25	30	111	8.246666667	8.408333333	-0.161667
T8	T	25	30	127	5.82	5.86	-0.04
T8	T	25	30	144	3.54	3.493333333	0.046667
T8	T	25	30	163	1.743333333	1.666666667	0.076667
T8	T	25	30	186	0.6	0.54	0.06
T8	T	25	30	211	0.096666667	0.071666667	0.025
T8	T	25	30	240	0	0	0
T8	T	25	30	272	0	0	0
T8	T	25	30	310	0	0	0
T8	T	25	30	352	0	0	0
T8	T	25	30	400	0	0	0
T8	T	25	30	454	0	0	0
T8	T	25	30	516	0	0	0
T8	T	25	30	586	0	0	0
T8	T	25	30	666	0	0	0
T8	T	25	30	756	0	0	0
T8	T	25	30	859	0	0	0
T8	T	25	30	976	0	0	0
T8	T	25	30	1110	0	0	0
T8	T	25	30	1260	0	0	0
T8	T	25	30	1430	0	0	0
T8	T	25	30	1630	0	0	0
T8	T	25	30	1850	0	0	0
T8	T	25	30	2100	0	0	0
T8	T	25	30	2390	0	0	0
T8	T	25	30	2710	0	0	0
T8	T	25	30	3080	0	0	0
T9	T	35	30	0.01	0	0	0
T9	T	35	30	0.0114	0	0	0
T9	T	35	30	0.0129	0	0	0
T9	T	35	30	0.0147	0	0	0
T9	T	35	30	0.0167	0	0	0
T9	T	35	30	0.0189	0	0	0
T9	T	35	30	0.0215	0	0	0
T9	T	35	30	0.0244	0	0	0
T9	T	35	30	0.0278	0	0	0
T9	T	35	30	0.0315	0	0	0
T9	T	35	30	0.0358	0	0	0
T9	T	35	30	0.0407	0	0	0
T9	T	35	30	0.0463	0	0	0
T9	T	35	30	0.0526	0	0	0
T9	T	35	30	0.0597	0	0	0
T9	T	35	30	0.0679	0	0	0
T9	T	35	30	0.0771	0	0	0
T9	T	35	30	0.0876	0	0	0
T9	T	35	30	0.0995	0	0	0
T9	T	35	30	0.113	0	0	0
T9	T	35	30	0.128	0	0	0
T9	T	35	30	0.146	0	0	0
T9	T	35	30	0.166	0	0	0
T9	T	35	30	0.188	0	0	0
T9	T	35	30	0.214	0	0	0
T9	T	35	30	0.243	0	0	0
T9	T	35	30	0.276	0	0	0
T9	T	35	30	0.314	0	0	0
T9	T	35	30	0.357	0	0	0
T9	T	35	30	0.405	0	0	0
T9	T	35	30	0.46	0	0	0

T9	T	35	30	0.523	0	0	0
T9	T	35	30	0.594	0	0	0
T9	T	35	30	0.675	0	0	0
T9	T	35	30	0.767	0	0	0
T9	T	35	30	0.872	0	0	0
T9	T	35	30	0.991	0	0	0
T9	T	35	30	1.13	0	0	0
T9	T	35	30	1.28	0	0	0
T9	T	35	30	1.45	0	0	0
T9	T	35	30	1.65	0	0	0
T9	T	35	30	1.88	0	0	0
T9	T	35	30	2.13	0	0	0
T9	T	35	30	2.42	0	0	0
T9	T	35	30	2.75	0	0	0
T9	T	35	30	3.12	0	0	0
T9	T	35	30	3.55	0	0	0
T9	T	35	30	4.03	0	0	0
T9	T	35	30	4.58	0	0	0
T9	T	35	30	5.21	0	0	0
T9	T	35	30	5.92	0	0	0
T9	T	35	30	6.72	0	0	0
T9	T	35	30	7.64	0	0	0
T9	T	35	30	8.68	0	0	0
T9	T	35	30	9.86	0	0	0
T9	T	35	30	11.2	0	0	0
T9	T	35	30	12.7	0	0	0
T9	T	35	30	14.5	0	0	0
T9	T	35	30	16.4	0	0	0
T9	T	35	30	18.7	0	0	0
T9	T	35	30	21.2	0	0	0
T9	T	35	30	24.1	0	0	0
T9	T	35	30	27.4	0.2133333333	0.1683333333	0.045
T9	T	35	30	31.1	0.86	0.7483333333	0.111667
T9	T	35	30	35.3	2.096666667	1.935	0.161667
T9	T	35	30	40.1	3.93	3.75	0.18
T9	T	35	30	45.6	6.2033333333	6.0483333333	0.155
T9	T	35	30	51.8	8.61	8.515	0.095
T9	T	35	30	58.9	10.74666667	10.7333333333	0.013333
T9	T	35	30	66.9	12.2133333333	12.28	-0.066667
T9	T	35	30	76	12.71	12.83	-0.12
T9	T	35	30	86.4	12.1133333333	12.265	-0.151667
T9	T	35	30	98.1	10.54	10.6883333333	-0.148333
T9	T	35	30	111	8.2833333333	8.4083333333	-0.125
T9	T	35	30	127	5.7733333333	5.86	-0.086667
T9	T	35	30	144	3.446666667	3.4933333333	-0.046667
T9	T	35	30	163	1.6433333333	1.666666667	-0.023333
T9	T	35	30	186	0.536666667	0.54	-0.003333
T9	T	35	30	211	0.0733333333	0.071666667	0.001667
T9	T	35	30	240	0	0	0
T9	T	35	30	272	0	0	0
T9	T	35	30	310	0	0	0
T9	T	35	30	352	0	0	0
T9	T	35	30	400	0	0	0
T9	T	35	30	454	0	0	0
T9	T	35	30	516	0	0	0
T9	T	35	30	586	0	0	0
T9	T	35	30	666	0	0	0
T9	T	35	30	756	0	0	0
T9	T	35	30	859	0	0	0
T9	T	35	30	976	0	0	0
T9	T	35	30	1110	0	0	0
T9	T	35	30	1260	0	0	0
T9	T	35	30	1430	0	0	0
T9	T	35	30	1630	0	0	0

T9	T	35	30	1850	0	0	0
T9	T	35	30	2100	0	0	0
T9	T	35	30	2390	0	0	0
T9	T	35	30	2710	0	0	0
T9	T	35	30	3080	0	0	0
T10	T	15	20	0.01	0	0	0
T10	T	15	20	0.0114	0	0	0
T10	T	15	20	0.0129	0	0	0
T10	T	15	20	0.0147	0	0	0
T10	T	15	20	0.0167	0	0	0
T10	T	15	20	0.0189	0	0	0
T10	T	15	20	0.0215	0	0	0
T10	T	15	20	0.0244	0	0	0
T10	T	15	20	0.0278	0	0	0
T10	T	15	20	0.0315	0	0	0
T10	T	15	20	0.0358	0	0	0
T10	T	15	20	0.0407	0	0	0
T10	T	15	20	0.0463	0	0	0
T10	T	15	20	0.0526	0	0	0
T10	T	15	20	0.0597	0	0	0
T10	T	15	20	0.0679	0	0	0
T10	T	15	20	0.0771	0	0	0
T10	T	15	20	0.0876	0	0	0
T10	T	15	20	0.0995	0	0	0
T10	T	15	20	0.113	0	0	0
T10	T	15	20	0.128	0	0	0
T10	T	15	20	0.146	0	0	0
T10	T	15	20	0.166	0	0	0
T10	T	15	20	0.188	0	0	0
T10	T	15	20	0.214	0	0	0
T10	T	15	20	0.243	0	0	0
T10	T	15	20	0.276	0	0	0
T10	T	15	20	0.314	0	0	0
T10	T	15	20	0.357	0	0	0
T10	T	15	20	0.405	0	0	0
T10	T	15	20	0.46	0	0	0
T10	T	15	20	0.523	0	0	0
T10	T	15	20	0.594	0	0	0
T10	T	15	20	0.675	0	0	0
T10	T	15	20	0.767	0	0	0
T10	T	15	20	0.872	0	0	0
T10	T	15	20	0.991	0	0	0
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T10	T	15	20	12.7	0	0	0
T10	T	15	20	14.5	0	0	0
T10	T	15	20	16.4	0	0	0

T10	T	15	20	18.7	0	0	0
T10	T	15	20	21.2	0	0	0
T10	T	15	20	24.1	0	0	0
T10	T	15	20	27.4	0.236666667	0.168333333	0.068333
T10	T	15	20	31.1	0.913333333	0.748333333	0.165
T10	T	15	20	35.3	2.173333333	1.935	0.238333
T10	T	15	20	40.1	4.02	3.75	0.27
T10	T	15	20	45.6	6.286666667	6.048333333	0.238333
T10	T	15	20	51.8	8.65	8.515	0.135
T10	T	15	20	58.9	10.72666667	10.73333333	-0.006667
T10	T	15	20	66.9	12.13	12.28	-0.15
T10	T	15	20	76	12.58333333	12.83	-0.246667
T10	T	15	20	86.4	11.98	12.265	-0.285
T10	T	15	20	98.1	10.43333333	10.68833333	-0.255
T10	T	15	20	111	8.233333333	8.408333333	-0.175
T10	T	15	20	127	5.776666667	5.86	-0.083333
T10	T	15	20	144	3.49	3.493333333	-0.003333
T10	T	15	20	163	1.696666667	1.666666667	0.03
T10	T	15	20	186	0.573333333	0.54	0.033333
T10	T	15	20	211	0.08	0.071666667	0.008333
T10	T	15	20	240	0	0	0
T10	T	15	20	272	0	0	0
T10	T	15	20	310	0	0	0
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T10	T	15	20	400	0	0	0
T10	T	15	20	454	0	0	0
T10	T	15	20	516	0	0	0
T10	T	15	20	586	0	0	0
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T10	T	15	20	756	0	0	0
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T10	T	15	20	976	0	0	0
T10	T	15	20	1110	0	0	0
T10	T	15	20	1260	0	0	0
T10	T	15	20	1430	0	0	0
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T11	T	25	20	0.01	0	0	0
T11	T	25	20	0.0114	0	0	0
T11	T	25	20	0.0129	0	0	0
T11	T	25	20	0.0147	0	0	0
T11	T	25	20	0.0167	0	0	0
T11	T	25	20	0.0189	0	0	0
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T11	T	25	20	0.0244	0	0	0
T11	T	25	20	0.0278	0	0	0
T11	T	25	20	0.0315	0	0	0
T11	T	25	20	0.0358	0	0	0
T11	T	25	20	0.0407	0	0	0
T11	T	25	20	0.0463	0	0	0
T11	T	25	20	0.0526	0	0	0
T11	T	25	20	0.0597	0	0	0
T11	T	25	20	0.0679	0	0	0
T11	T	25	20	0.0771	0	0	0
T11	T	25	20	0.0876	0	0	0
T11	T	25	20	0.0995	0	0	0
T11	T	25	20	0.113	0	0	0
T11	T	25	20	0.128	0	0	0
T11	T	25	20	0.146	0	0	0
T11	T	25	20	0.166	0	0	0

T11	T	25	20	0.188	0	0	0
T11	T	25	20	0.214	0	0	0
T11	T	25	20	0.243	0	0	0
T11	T	25	20	0.276	0	0	0
T11	T	25	20	0.314	0	0	0
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T11	T	25	20	0.46	0	0	0
T11	T	25	20	0.523	0	0	0
T11	T	25	20	0.594	0	0	0
T11	T	25	20	0.675	0	0	0
T11	T	25	20	0.767	0	0	0
T11	T	25	20	0.872	0	0	0
T11	T	25	20	0.991	0	0	0
T11	T	25	20	1.13	0	0	0
T11	T	25	20	1.28	0	0	0
T11	T	25	20	1.45	0	0	0
T11	T	25	20	1.65	0	0	0
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T11	T	25	20	27.4	0.256666667	0.168333333	0.088333
T11	T	25	20	31.1	0.953333333	0.748333333	0.205
T11	T	25	20	35.3	2.233333333	1.935	0.298333
T11	T	25	20	40.1	4.08	3.75	0.33
T11	T	25	20	45.6	6.33	6.048333333	0.281667
T11	T	25	20	51.8	8.673333333	8.515	0.158333
T11	T	25	20	58.9	10.72	10.733333333	-0.013333
T11	T	25	20	66.9	12.103333333	12.28	-0.176667
T11	T	25	20	76	12.54	12.83	-0.29
T11	T	25	20	86.4	11.936666667	12.265	-0.328333
T11	T	25	20	98.1	10.39	10.688333333	-0.298333
T11	T	25	20	111	8.2	8.408333333	-0.208333
T11	T	25	20	127	5.753333333	5.86	-0.106667
T11	T	25	20	144	3.476666667	3.493333333	-0.016667
T11	T	25	20	163	1.693333333	1.666666667	0.026667
T11	T	25	20	186	0.57	0.54	0.03
T11	T	25	20	211	0.08	0.071666667	0.008333
T11	T	25	20	240	0	0	0
T11	T	25	20	272	0	0	0
T11	T	25	20	310	0	0	0
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T11	T	25	20	400	0	0	0
T11	T	25	20	454	0	0	0
T11	T	25	20	516	0	0	0
T11	T	25	20	586	0	0	0

T11	T	25	20	666	0	0	0
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T11	T	25	20	859	0	0	0
T11	T	25	20	976	0	0	0
T11	T	25	20	1110	0	0	0
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T12	T	35	20	0.01	0	0	0
T12	T	35	20	0.0114	0	0	0
T12	T	35	20	0.0129	0	0	0
T12	T	35	20	0.0147	0	0	0
T12	T	35	20	0.0167	0	0	0
T12	T	35	20	0.0189	0	0	0
T12	T	35	20	0.0215	0	0	0
T12	T	35	20	0.0244	0	0	0
T12	T	35	20	0.0278	0	0	0
T12	T	35	20	0.0315	0	0	0
T12	T	35	20	0.0358	0	0	0
T12	T	35	20	0.0407	0	0	0
T12	T	35	20	0.0463	0	0	0
T12	T	35	20	0.0526	0	0	0
T12	T	35	20	0.0597	0	0	0
T12	T	35	20	0.0679	0	0	0
T12	T	35	20	0.0771	0	0	0
T12	T	35	20	0.0876	0	0	0
T12	T	35	20	0.0995	0	0	0
T12	T	35	20	0.113	0	0	0
T12	T	35	20	0.128	0	0	0
T12	T	35	20	0.146	0	0	0
T12	T	35	20	0.166	0	0	0
T12	T	35	20	0.188	0	0	0
T12	T	35	20	0.214	0	0	0
T12	T	35	20	0.243	0	0	0
T12	T	35	20	0.276	0	0	0
T12	T	35	20	0.314	0	0	0
T12	T	35	20	0.357	0	0	0
T12	T	35	20	0.405	0	0	0
T12	T	35	20	0.46	0	0	0
T12	T	35	20	0.523	0	0	0
T12	T	35	20	0.594	0	0	0
T12	T	35	20	0.675	0	0	0
T12	T	35	20	0.767	0	0	0
T12	T	35	20	0.872	0	0	0
T12	T	35	20	0.991	0	0	0
T12	T	35	20	1.13	0	0	0
T12	T	35	20	1.28	0	0	0
T12	T	35	20	1.45	0	0	0
T12	T	35	20	1.65	0	0	0
T12	T	35	20	1.88	0	0	0
T12	T	35	20	2.13	0	0	0
T12	T	35	20	2.42	0	0	0
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T12	T	35	20	4.03	0	0	0
T12	T	35	20	4.58	0	0	0
T12	T	35	20	5.21	0	0	0
T12	T	35	20	5.92	0	0	0

T12	T	35	20	6.72	0	0	0
T12	T	35	20	7.64	0	0	0
T12	T	35	20	8.68	0	0	0
T12	T	35	20	9.86	0	0	0
T12	T	35	20	11.2	0	0	0
T12	T	35	20	12.7	0	0	0
T12	T	35	20	14.5	0	0	0
T12	T	35	20	16.4	0	0	0
T12	T	35	20	18.7	0	0	0
T12	T	35	20	21.2	0	0	0
T12	T	35	20	24.1	0	0	0
T12	T	35	20	27.4	0.213333333	0.168333333	0.045
T12	T	35	20	31.1	0.86	0.748333333	0.111667
T12	T	35	20	35.3	2.096666667	1.935	0.161667
T12	T	35	20	40.1	3.933333333	3.75	0.183333
T12	T	35	20	45.6	6.21	6.048333333	0.161667
T12	T	35	20	51.8	8.616666667	8.515	0.101667
T12	T	35	20	58.9	10.743333333	10.733333333	0.01
T12	T	35	20	66.9	12.193333333	12.28	-0.086667
T12	T	35	20	76	12.676666667	12.83	-0.153333
T12	T	35	20	86.4	12.08	12.265	-0.185
T12	T	35	20	98.1	10.513333333	10.688333333	-0.175
T12	T	35	20	111	8.273333333	8.408333333	-0.135
T12	T	35	20	127	5.783333333	5.86	-0.076667
T12	T	35	20	144	3.476666667	3.493333333	-0.016667
T12	T	35	20	163	1.68	1.666666667	0.013333
T12	T	35	20	186	0.56	0.54	0.02
T12	T	35	20	211	0.08	0.071666667	0.008333
T12	T	35	20	240	0	0	0
T12	T	35	20	272	0	0	0
T12	T	35	20	310	0	0	0
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T12	T	35	20	1630	0	0	0
T12	T	35	20	1850	0	0	0
T12	T	35	20	2100	0	0	0
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C1	C	15	20	0.01	0	0	0
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C1	C	15	20	0.0189	0	0	0
C1	C	15	20	0.0215	0	0	0
C1	C	15	20	0.0244	0	0	0
C1	C	15	20	0.0278	0	0	0
C1	C	15	20	0.0315	0	0	0
C1	C	15	20	0.0358	0	0	0
C1	C	15	20	0.0407	0	0	0
C1	C	15	20	0.0463	0	0	0
C1	C	15	20	0.0526	0	0	0
C1	C	15	20	0.0597	0	0	0

C1	C	15	20	0.0679	0	0	0
C1	C	15	20	0.0771	0	0	0
C1	C	15	20	0.0876	0	0	0
C1	C	15	20	0.0995	0	0	0
C1	C	15	20	0.113	0	0	0
C1	C	15	20	0.128	0	0	0
C1	C	15	20	0.146	0	0	0
C1	C	15	20	0.166	0	0	0
C1	C	15	20	0.188	0	0	0
C1	C	15	20	0.214	0	0	0
C1	C	15	20	0.243	0	0	0
C1	C	15	20	0.276	0	0	0
C1	C	15	20	0.314	0	0	0
C1	C	15	20	0.357	0	0	0
C1	C	15	20	0.405	0	0	0
C1	C	15	20	0.46	0	0	0
C1	C	15	20	0.523	0	0	0
C1	C	15	20	0.594	0	0	0
C1	C	15	20	0.675	0	0	0
C1	C	15	20	0.767	0	0	0
C1	C	15	20	0.872	0	0	0
C1	C	15	20	0.991	0	0	0
C1	C	15	20	1.13	0	0	0
C1	C	15	20	1.28	0	0	0
C1	C	15	20	1.45	0	0	0
C1	C	15	20	1.65	0	0	0
C1	C	15	20	1.88	0	0	0
C1	C	15	20	2.13	0	0	0
C1	C	15	20	2.42	0	0	0
C1	C	15	20	2.75	0	0	0
C1	C	15	20	3.12	0	0	0
C1	C	15	20	3.55	0	0	0
C1	C	15	20	4.03	0	0	0
C1	C	15	20	4.58	0	0	0
C1	C	15	20	5.21	0	0	0
C1	C	15	20	5.92	0	0	0
C1	C	15	20	6.72	0	0	0
C1	C	15	20	7.64	0	0	0
C1	C	15	20	8.68	0	0	0
C1	C	15	20	9.86	0	0	0
C1	C	15	20	11.2	0	0	0
C1	C	15	20	12.7	0	0	0
C1	C	15	20	14.5	0	0	0
C1	C	15	20	16.4	0	0	0
C1	C	15	20	18.7	0	0	0
C1	C	15	20	21.2	0	0	0
C1	C	15	20	24.1	0	0	0
C1	C	15	20	27.4	0.013333333	0	0.013333
C1	C	15	20	31.1	0.276666667	0.241111111	0.035556
C1	C	15	20	35.3	1.096666667	1.03	0.066667
C1	C	15	20	40.1	2.646666667	2.524444444	0.122222
C1	C	15	20	45.6	4.886666667	4.68	0.206667
C1	C	15	20	51.8	7.533333333	7.24	0.293333
C1	C	15	20	58.9	10.13	9.778888889	0.351111
C1	C	15	20	66.9	12.153333333	11.821111111	0.332222
C1	C	15	20	76	13.18	12.946666667	0.233333
C1	C	15	20	86.4	12.98	12.921111111	0.058889
C1	C	15	20	98.1	11.606666667	11.748888889	-0.142222
C1	C	15	20	111	9.37	9.677777778	-0.307778
C1	C	15	20	127	6.73	7.132222222	-0.402222
C1	C	15	20	144	4.2	4.585555556	-0.385556
C1	C	15	20	163	2.166666667	2.452222222	-0.285556
C1	C	15	20	186	0.84	0.986666667	-0.146667
C1	C	15	20	211	0.19	0.223333333	-0.033333

C1	C	15	20	240	0.01	0	0.01
C1	C	15	20	272	0	0	0
C1	C	15	20	310	0	0	0
C1	C	15	20	352	0	0	0
C1	C	15	20	400	0	0	0
C1	C	15	20	454	0	0	0
C1	C	15	20	516	0	0	0
C1	C	15	20	586	0	0	0
C1	C	15	20	666	0	0	0
C1	C	15	20	756	0	0	0
C1	C	15	20	859	0	0	0
C1	C	15	20	976	0	0	0
C1	C	15	20	1110	0	0	0
C1	C	15	20	1260	0	0	0
C1	C	15	20	1430	0	0	0
C1	C	15	20	1630	0	0	0
C1	C	15	20	1850	0	0	0
C1	C	15	20	2100	0	0	0
C1	C	15	20	2390	0	0	0
C1	C	15	20	2710	0	0	0
C1	C	15	20	3080	0	0	0
C2	C	25	20	0.01	0	0	0
C2	C	25	20	0.0114	0	0	0
C2	C	25	20	0.0129	0	0	0
C2	C	25	20	0.0147	0	0	0
C2	C	25	20	0.0167	0	0	0
C2	C	25	20	0.0189	0	0	0
C2	C	25	20	0.0215	0	0	0
C2	C	25	20	0.0244	0	0	0
C2	C	25	20	0.0278	0	0	0
C2	C	25	20	0.0315	0	0	0
C2	C	25	20	0.0358	0	0	0
C2	C	25	20	0.0407	0	0	0
C2	C	25	20	0.0463	0	0	0
C2	C	25	20	0.0526	0	0	0
C2	C	25	20	0.0597	0	0	0
C2	C	25	20	0.0679	0	0	0
C2	C	25	20	0.0771	0	0	0
C2	C	25	20	0.0876	0	0	0
C2	C	25	20	0.0995	0	0	0
C2	C	25	20	0.113	0	0	0
C2	C	25	20	0.128	0	0	0
C2	C	25	20	0.146	0	0	0
C2	C	25	20	0.166	0	0	0
C2	C	25	20	0.188	0	0	0
C2	C	25	20	0.214	0	0	0
C2	C	25	20	0.243	0	0	0
C2	C	25	20	0.276	0	0	0
C2	C	25	20	0.314	0	0	0
C2	C	25	20	0.357	0	0	0
C2	C	25	20	0.405	0	0	0
C2	C	25	20	0.46	0	0	0
C2	C	25	20	0.523	0	0	0
C2	C	25	20	0.594	0	0	0
C2	C	25	20	0.675	0	0	0
C2	C	25	20	0.767	0	0	0
C2	C	25	20	0.872	0	0	0
C2	C	25	20	0.991	0	0	0
C2	C	25	20	1.13	0	0	0
C2	C	25	20	1.28	0	0	0
C2	C	25	20	1.45	0	0	0
C2	C	25	20	1.65	0	0	0
C2	C	25	20	1.88	0	0	0
C2	C	25	20	2.13	0	0	0

C2	C	25	20	2.42	0	0	0
C2	C	25	20	2.75	0	0	0
C2	C	25	20	3.12	0	0	0
C2	C	25	20	3.55	0	0	0
C2	C	25	20	4.03	0	0	0
C2	C	25	20	4.58	0	0	0
C2	C	25	20	5.21	0	0	0
C2	C	25	20	5.92	0	0	0
C2	C	25	20	6.72	0	0	0
C2	C	25	20	7.64	0	0	0
C2	C	25	20	8.68	0	0	0
C2	C	25	20	9.86	0	0	0
C2	C	25	20	11.2	0	0	0
C2	C	25	20	12.7	0	0	0
C2	C	25	20	14.5	0	0	0
C2	C	25	20	16.4	0	0	0
C2	C	25	20	18.7	0	0	0
C2	C	25	20	21.2	0	0	0
C2	C	25	20	24.1	0	0	0
C2	C	25	20	27.4	0	0	0
C2	C	25	20	31.1	0.2133333333	0.2411111111	-0.027778
C2	C	25	20	35.3	0.9633333333	1.03	-0.066667
C2	C	25	20	40.1	2.4266666667	2.5244444444	-0.097778
C2	C	25	20	45.6	4.5933333333	4.68	-0.086667
C2	C	25	20	51.8	7.2066666667	7.24	-0.033333
C2	C	25	20	58.9	9.8366666667	9.778888889	0.057778
C2	C	25	20	66.9	11.9633333333	11.8211111111	0.142222
C2	C	25	20	76	13.1466666667	12.9466666667	0.2
C2	C	25	20	86.4	13.1166666667	12.9211111111	0.195556
C2	C	25	20	98.1	11.8833333333	11.748888889	0.134444
C2	C	25	20	111	9.7166666667	9.6777777778	0.038889
C2	C	25	20	127	7.0733333333	7.1322222222	-0.058889
C2	C	25	20	144	4.4633333333	4.5855555556	-0.122222
C2	C	25	20	163	2.32	2.4522222222	-0.132222
C2	C	25	20	186	0.89	0.9866666667	-0.096667
C2	C	25	20	211	0.1833333333	0.2233333333	-0.04
C2	C	25	20	240	0	0	0
C2	C	25	20	272	0	0	0
C2	C	25	20	310	0	0	0
C2	C	25	20	352	0	0	0
C2	C	25	20	400	0	0	0
C2	C	25	20	454	0	0	0
C2	C	25	20	516	0	0	0
C2	C	25	20	586	0	0	0
C2	C	25	20	666	0	0	0
C2	C	25	20	756	0	0	0
C2	C	25	20	859	0	0	0
C2	C	25	20	976	0	0	0
C2	C	25	20	1110	0	0	0
C2	C	25	20	1260	0	0	0
C2	C	25	20	1430	0	0	0
C2	C	25	20	1630	0	0	0
C2	C	25	20	1850	0	0	0
C2	C	25	20	2100	0	0	0
C2	C	25	20	2390	0	0	0
C2	C	25	20	2710	0	0	0
C2	C	25	20	3080	0	0	0
C3	C	35	20	0.01	0	0	0
C3	C	35	20	0.0114	0	0	0
C3	C	35	20	0.0129	0	0	0
C3	C	35	20	0.0147	0	0	0
C3	C	35	20	0.0167	0	0	0
C3	C	35	20	0.0189	0	0	0
C3	C	35	20	0.0215	0	0	0

C3	C	35	20	0.0244	0	0	0
C3	C	35	20	0.0278	0	0	0
C3	C	35	20	0.0315	0	0	0
C3	C	35	20	0.0358	0	0	0
C3	C	35	20	0.0407	0	0	0
C3	C	35	20	0.0463	0	0	0
C3	C	35	20	0.0526	0	0	0
C3	C	35	20	0.0597	0	0	0
C3	C	35	20	0.0679	0	0	0
C3	C	35	20	0.0771	0	0	0
C3	C	35	20	0.0876	0	0	0
C3	C	35	20	0.0995	0	0	0
C3	C	35	20	0.113	0	0	0
C3	C	35	20	0.128	0	0	0
C3	C	35	20	0.146	0	0	0
C3	C	35	20	0.166	0	0	0
C3	C	35	20	0.188	0	0	0
C3	C	35	20	0.214	0	0	0
C3	C	35	20	0.243	0	0	0
C3	C	35	20	0.276	0	0	0
C3	C	35	20	0.314	0	0	0
C3	C	35	20	0.357	0	0	0
C3	C	35	20	0.405	0	0	0
C3	C	35	20	0.46	0	0	0
C3	C	35	20	0.523	0	0	0
C3	C	35	20	0.594	0	0	0
C3	C	35	20	0.675	0	0	0
C3	C	35	20	0.767	0	0	0
C3	C	35	20	0.872	0	0	0
C3	C	35	20	0.991	0	0	0
C3	C	35	20	1.13	0	0	0
C3	C	35	20	1.28	0	0	0
C3	C	35	20	1.45	0	0	0
C3	C	35	20	1.65	0	0	0
C3	C	35	20	1.88	0	0	0
C3	C	35	20	2.13	0	0	0
C3	C	35	20	2.42	0	0	0
C3	C	35	20	2.75	0	0	0
C3	C	35	20	3.12	0	0	0
C3	C	35	20	3.55	0	0	0
C3	C	35	20	4.03	0	0	0
C3	C	35	20	4.58	0	0	0
C3	C	35	20	5.21	0	0	0
C3	C	35	20	5.92	0	0	0
C3	C	35	20	6.72	0	0	0
C3	C	35	20	7.64	0	0	0
C3	C	35	20	8.68	0	0	0
C3	C	35	20	9.86	0	0	0
C3	C	35	20	11.2	0	0	0
C3	C	35	20	12.7	0	0	0
C3	C	35	20	14.5	0	0	0
C3	C	35	20	16.4	0	0	0
C3	C	35	20	18.7	0	0	0
C3	C	35	20	21.2	0	0	0
C3	C	35	20	24.1	0	0	0
C3	C	35	20	27.4	0	0	0
C3	C	35	20	31.1	0.23	0.2411111111	-0.011111
C3	C	35	20	35.3	0.9933333333	1.03	-0.036667
C3	C	35	20	40.1	2.476666667	2.524444444	-0.047778
C3	C	35	20	45.6	4.663333333	4.68	-0.016667
C3	C	35	20	51.8	7.29	7.24	0.05
C3	C	35	20	58.9	9.92	9.778888889	0.141111
C3	C	35	20	66.9	12.03333333	11.82111111	0.212222
C3	C	35	20	76	13.18333333	12.94666667	0.236667

C3	C	35	20	86.4	13.11333333	12.92111111	0.192222
C3	C	35	20	98.1	11.84333333	11.74888889	0.094444
C3	C	35	20	111	9.643333333	9.677777778	-0.034444
C3	C	35	20	127		6.98 7.132222222	-0.152222
C3	C	35	20	144	4.373333333	4.585555556	-0.212222
C3	C	35	20	163	2.246666667	2.452222222	-0.205556
C3	C	35	20	186	0.843333333	0.986666667	-0.143333
C3	C	35	20	211		0.17 0.223333333	-0.053333
C3	C	35	20	240		0	0
C3	C	35	20	272		0	0
C3	C	35	20	310		0	0
C3	C	35	20	352		0	0
C3	C	35	20	400		0	0
C3	C	35	20	454		0	0
C3	C	35	20	516		0	0
C3	C	35	20	586		0	0
C3	C	35	20	666		0	0
C3	C	35	20	756		0	0
C3	C	35	20	859		0	0
C3	C	35	20	976		0	0
C3	C	35	20	1110		0	0
C3	C	35	20	1260		0	0
C3	C	35	20	1430		0	0
C3	C	35	20	1630		0	0
C3	C	35	20	1850		0	0
C3	C	35	20	2100		0	0
C3	C	35	20	2390		0	0
C3	C	35	20	2710		0	0
C3	C	35	20	3080		0	0
C4	C	15	30	0.01		0	0
C4	C	15	30	0.0114		0	0
C4	C	15	30	0.0129		0	0
C4	C	15	30	0.0147		0	0
C4	C	15	30	0.0167		0	0
C4	C	15	30	0.0189		0	0
C4	C	15	30	0.0215		0	0
C4	C	15	30	0.0244		0	0
C4	C	15	30	0.0278		0	0
C4	C	15	30	0.0315		0	0
C4	C	15	30	0.0358		0	0
C4	C	15	30	0.0407		0	0
C4	C	15	30	0.0463		0	0
C4	C	15	30	0.0526		0	0
C4	C	15	30	0.0597		0	0
C4	C	15	30	0.0679		0	0
C4	C	15	30	0.0771		0	0
C4	C	15	30	0.0876		0	0
C4	C	15	30	0.0995		0	0
C4	C	15	30	0.113		0	0
C4	C	15	30	0.128		0	0
C4	C	15	30	0.146		0	0
C4	C	15	30	0.166		0	0
C4	C	15	30	0.188		0	0
C4	C	15	30	0.214		0	0
C4	C	15	30	0.243		0	0
C4	C	15	30	0.276		0	0
C4	C	15	30	0.314		0	0
C4	C	15	30	0.357		0	0
C4	C	15	30	0.405		0	0
C4	C	15	30	0.46		0	0
C4	C	15	30	0.523		0	0
C4	C	15	30	0.594		0	0
C4	C	15	30	0.675		0	0
C4	C	15	30	0.767		0	0

C4	C	15	30	0.872	0	0	0
C4	C	15	30	0.991	0	0	0
C4	C	15	30	1.13	0	0	0
C4	C	15	30	1.28	0	0	0
C4	C	15	30	1.45	0	0	0
C4	C	15	30	1.65	0	0	0
C4	C	15	30	1.88	0	0	0
C4	C	15	30	2.13	0	0	0
C4	C	15	30	2.42	0	0	0
C4	C	15	30	2.75	0	0	0
C4	C	15	30	3.12	0	0	0
C4	C	15	30	3.55	0	0	0
C4	C	15	30	4.03	0	0	0
C4	C	15	30	4.58	0	0	0
C4	C	15	30	5.21	0	0	0
C4	C	15	30	5.92	0	0	0
C4	C	15	30	6.72	0	0	0
C4	C	15	30	7.64	0	0	0
C4	C	15	30	8.68	0	0	0
C4	C	15	30	9.86	0	0	0
C4	C	15	30	11.2	0	0	0
C4	C	15	30	12.7	0	0	0
C4	C	15	30	14.5	0	0	0
C4	C	15	30	16.4	0	0	0
C4	C	15	30	18.7	0	0	0
C4	C	15	30	21.2	0	0	0
C4	C	15	30	24.1	0	0	0
C4	C	15	30	27.4	0	0	0
C4	C	15	30	31.1	0.17	0.2411111111	-0.071111
C4	C	15	30	35.3	0.846666667	1.03	-0.183333
C4	C	15	30	40.1	2.266666667	2.524444444	-0.257778
C4	C	15	30	45.6	4.443333333	4.68	-0.236667
C4	C	15	30	51.8	7.126666667	7.24	-0.113333
C4	C	15	30	58.9	9.86	9.778888889	0.081111
C4	C	15	30	66.9	12.09666667	11.82111111	0.275556
C4	C	15	30	76	13.33666667	12.94666667	0.39
C4	C	15	30	86.4	13.31333333	12.92111111	0.392222
C4	C	15	30	98.1	12.03	11.74888889	0.281111
C4	C	15	30	111	9.783333333	9.677777778	0.105556
C4	C	15	30	127	7.06	7.132222222	-0.072222
C4	C	15	30	144	4.4	4.585555556	-0.185556
C4	C	15	30	163	2.25	2.452222222	-0.202222
C4	C	15	30	186	0.84	0.986666667	-0.146667
C4	C	15	30	211	0.166666667	0.223333333	-0.056667
C4	C	15	30	240	0	0	0
C4	C	15	30	272	0	0	0
C4	C	15	30	310	0	0	0
C4	C	15	30	352	0	0	0
C4	C	15	30	400	0	0	0
C4	C	15	30	454	0	0	0
C4	C	15	30	516	0	0	0
C4	C	15	30	586	0	0	0
C4	C	15	30	666	0	0	0
C4	C	15	30	756	0	0	0
C4	C	15	30	859	0	0	0
C4	C	15	30	976	0	0	0
C4	C	15	30	1110	0	0	0
C4	C	15	30	1260	0	0	0
C4	C	15	30	1430	0	0	0
C4	C	15	30	1630	0	0	0
C4	C	15	30	1850	0	0	0
C4	C	15	30	2100	0	0	0
C4	C	15	30	2390	0	0	0
C4	C	15	30	2710	0	0	0

C4	C	15	30	3080	0	0	0
C5	C	25	30	0.01	0	0	0
C5	C	25	30	0.0114	0	0	0
C5	C	25	30	0.0129	0	0	0
C5	C	25	30	0.0147	0	0	0
C5	C	25	30	0.0167	0	0	0
C5	C	25	30	0.0189	0	0	0
C5	C	25	30	0.0215	0	0	0
C5	C	25	30	0.0244	0	0	0
C5	C	25	30	0.0278	0	0	0
C5	C	25	30	0.0315	0	0	0
C5	C	25	30	0.0358	0	0	0
C5	C	25	30	0.0407	0	0	0
C5	C	25	30	0.0463	0	0	0
C5	C	25	30	0.0526	0	0	0
C5	C	25	30	0.0597	0	0	0
C5	C	25	30	0.0679	0	0	0
C5	C	25	30	0.0771	0	0	0
C5	C	25	30	0.0876	0	0	0
C5	C	25	30	0.0995	0	0	0
C5	C	25	30	0.113	0	0	0
C5	C	25	30	0.128	0	0	0
C5	C	25	30	0.146	0	0	0
C5	C	25	30	0.166	0	0	0
C5	C	25	30	0.188	0	0	0
C5	C	25	30	0.214	0	0	0
C5	C	25	30	0.243	0	0	0
C5	C	25	30	0.276	0	0	0
C5	C	25	30	0.314	0	0	0
C5	C	25	30	0.357	0	0	0
C5	C	25	30	0.405	0	0	0
C5	C	25	30	0.46	0	0	0
C5	C	25	30	0.523	0	0	0
C5	C	25	30	0.594	0	0	0
C5	C	25	30	0.675	0	0	0
C5	C	25	30	0.767	0	0	0
C5	C	25	30	0.872	0	0	0
C5	C	25	30	0.991	0	0	0
C5	C	25	30	1.13	0	0	0
C5	C	25	30	1.28	0	0	0
C5	C	25	30	1.45	0	0	0
C5	C	25	30	1.65	0	0	0
C5	C	25	30	1.88	0	0	0
C5	C	25	30	2.13	0	0	0
C5	C	25	30	2.42	0	0	0
C5	C	25	30	2.75	0	0	0
C5	C	25	30	3.12	0	0	0
C5	C	25	30	3.55	0	0	0
C5	C	25	30	4.03	0	0	0
C5	C	25	30	4.58	0	0	0
C5	C	25	30	5.21	0	0	0
C5	C	25	30	5.92	0	0	0
C5	C	25	30	6.72	0	0	0
C5	C	25	30	7.64	0	0	0
C5	C	25	30	8.68	0	0	0
C5	C	25	30	9.86	0	0	0
C5	C	25	30	11.2	0	0	0
C5	C	25	30	12.7	0	0	0
C5	C	25	30	14.5	0	0	0
C5	C	25	30	16.4	0	0	0
C5	C	25	30	18.7	0	0	0
C5	C	25	30	21.2	0	0	0
C5	C	25	30	24.1	0	0	0
C5	C	25	30	27.4	0	0	0

C5	C	25	30	31.1	0.183333333	0.241111111	-0.057778
C5	C	25	30	35.3	0.883333333	1.03	-0.146667
C5	C	25	30	40.1	2.313333333	2.524444444	-0.211111
C5	C	25	30	45.6	4.476666667	4.68	-0.203333
C5	C	25	30	51.8	7.123333333	7.24	-0.116667
C5	C	25	30	58.9	9.813333333	9.778888889	0.034444
C5	C	25	30	66.9	12.013333333	11.821111111	0.192222
C5	C	25	30	76	13.243333333	12.946666667	0.296667
C5	C	25	30	86.4	13.23	12.921111111	0.308889
C5	C	25	30	98.1	11.983333333	11.748888889	0.234444
C5	C	25	30	111	9.79	9.677777778	0.112222
C5	C	25	30	127	7.103333333	7.132222222	-0.028889
C5	C	25	30	144	4.463333333	4.585555556	-0.122222
C5	C	25	30	163	2.313333333	2.452222222	-0.138889
C5	C	25	30	186	0.883333333	0.986666667	-0.103333
C5	C	25	30	211	0.18	0.223333333	-0.043333
C5	C	25	30	240	0	0	0
C5	C	25	30	272	0	0	0
C5	C	25	30	310	0	0	0
C5	C	25	30	352	0	0	0
C5	C	25	30	400	0	0	0
C5	C	25	30	454	0	0	0
C5	C	25	30	516	0	0	0
C5	C	25	30	586	0	0	0
C5	C	25	30	666	0	0	0
C5	C	25	30	756	0	0	0
C5	C	25	30	859	0	0	0
C5	C	25	30	976	0	0	0
C5	C	25	30	1110	0	0	0
C5	C	25	30	1260	0	0	0
C5	C	25	30	1430	0	0	0
C5	C	25	30	1630	0	0	0
C5	C	25	30	1850	0	0	0
C5	C	25	30	2100	0	0	0
C5	C	25	30	2390	0	0	0
C5	C	25	30	2710	0	0	0
C5	C	25	30	3080	0	0	0
C6	C	35	30	0.01	0	0	0
C6	C	35	30	0.0114	0	0	0
C6	C	35	30	0.0129	0	0	0
C6	C	35	30	0.0147	0	0	0
C6	C	35	30	0.0167	0	0	0
C6	C	35	30	0.0189	0	0	0
C6	C	35	30	0.0215	0	0	0
C6	C	35	30	0.0244	0	0	0
C6	C	35	30	0.0278	0	0	0
C6	C	35	30	0.0315	0	0	0
C6	C	35	30	0.0358	0	0	0
C6	C	35	30	0.0407	0	0	0
C6	C	35	30	0.0463	0	0	0
C6	C	35	30	0.0526	0	0	0
C6	C	35	30	0.0597	0	0	0
C6	C	35	30	0.0679	0	0	0
C6	C	35	30	0.0771	0	0	0
C6	C	35	30	0.0876	0	0	0
C6	C	35	30	0.0995	0	0	0
C6	C	35	30	0.113	0	0	0
C6	C	35	30	0.128	0	0	0
C6	C	35	30	0.146	0	0	0
C6	C	35	30	0.166	0	0	0
C6	C	35	30	0.188	0	0	0
C6	C	35	30	0.214	0	0	0
C6	C	35	30	0.243	0	0	0
C6	C	35	30	0.276	0	0	0

C6	C	35	30	0.314	0	0	0
C6	C	35	30	0.357	0	0	0
C6	C	35	30	0.405	0	0	0
C6	C	35	30	0.46	0	0	0
C6	C	35	30	0.523	0	0	0
C6	C	35	30	0.594	0	0	0
C6	C	35	30	0.675	0	0	0
C6	C	35	30	0.767	0	0	0
C6	C	35	30	0.872	0	0	0
C6	C	35	30	0.991	0	0	0
C6	C	35	30	1.13	0	0	0
C6	C	35	30	1.28	0	0	0
C6	C	35	30	1.45	0	0	0
C6	C	35	30	1.65	0	0	0
C6	C	35	30	1.88	0	0	0
C6	C	35	30	2.13	0	0	0
C6	C	35	30	2.42	0	0	0
C6	C	35	30	2.75	0	0	0
C6	C	35	30	3.12	0	0	0
C6	C	35	30	3.55	0	0	0
C6	C	35	30	4.03	0	0	0
C6	C	35	30	4.58	0	0	0
C6	C	35	30	5.21	0	0	0
C6	C	35	30	5.92	0	0	0
C6	C	35	30	6.72	0	0	0
C6	C	35	30	7.64	0	0	0
C6	C	35	30	8.68	0	0	0
C6	C	35	30	9.86	0	0	0
C6	C	35	30	11.2	0	0	0
C6	C	35	30	12.7	0	0	0
C6	C	35	30	14.5	0	0	0
C6	C	35	30	16.4	0	0	0
C6	C	35	30	18.7	0	0	0
C6	C	35	30	21.2	0	0	0
C6	C	35	30	24.1	0	0	0
C6	C	35	30	27.4	0	0	0
C6	C	35	30	31.1	0.21	0.2411111111	-0.031111
C6	C	35	30	35.3	0.96	1.03	-0.07
C6	C	35	30	40.1	2.426666667	2.524444444	-0.097778
C6	C	35	30	45.6	4.603333333	4.68	-0.076667
C6	C	35	30	51.8	7.226666667	7.24	-0.013333
C6	C	35	30	58.9	9.856666667	9.778888889	0.077778
C6	C	35	30	66.9	11.98333333	11.82111111	0.162222
C6	C	35	30	76	13.15	12.94666667	0.203333
C6	C	35	30	86.4	13.10666667	12.92111111	0.185556
C6	C	35	30	98.1	11.86333333	11.74888889	0.114444
C6	C	35	30	111	9.696666667	9.677777778	0.018889
C6	C	35	30	127	7.053333333	7.132222222	-0.078889
C6	C	35	30	144	4.456666667	4.585555556	-0.128889
C6	C	35	30	163	2.32	2.452222222	-0.132222
C6	C	35	30	186	0.893333333	0.986666667	-0.093333
C6	C	35	30	211	0.186666667	0.223333333	-0.036667
C6	C	35	30	240	0	0	0
C6	C	35	30	272	0	0	0
C6	C	35	30	310	0	0	0
C6	C	35	30	352	0	0	0
C6	C	35	30	400	0	0	0
C6	C	35	30	454	0	0	0
C6	C	35	30	516	0	0	0
C6	C	35	30	586	0	0	0
C6	C	35	30	666	0	0	0
C6	C	35	30	756	0	0	0
C6	C	35	30	859	0	0	0
C6	C	35	30	976	0	0	0

C6	C	35	30	1110	0	0	0
C6	C	35	30	1260	0	0	0
C6	C	35	30	1430	0	0	0
C6	C	35	30	1630	0	0	0
C6	C	35	30	1850	0	0	0
C6	C	35	30	2100	0	0	0
C6	C	35	30	2390	0	0	0
C6	C	35	30	2710	0	0	0
C6	C	35	30	3080	0	0	0
C7	C	15	45	0.01	0	0	0
C7	C	15	45	0.0114	0	0	0
C7	C	15	45	0.0129	0	0	0
C7	C	15	45	0.0147	0	0	0
C7	C	15	45	0.0167	0	0	0
C7	C	15	45	0.0189	0	0	0
C7	C	15	45	0.0215	0	0	0
C7	C	15	45	0.0244	0	0	0
C7	C	15	45	0.0278	0	0	0
C7	C	15	45	0.0315	0	0	0
C7	C	15	45	0.0358	0	0	0
C7	C	15	45	0.0407	0	0	0
C7	C	15	45	0.0463	0	0	0
C7	C	15	45	0.0526	0	0	0
C7	C	15	45	0.0597	0	0	0
C7	C	15	45	0.0679	0	0	0
C7	C	15	45	0.0771	0	0	0
C7	C	15	45	0.0876	0	0	0
C7	C	15	45	0.0995	0	0	0
C7	C	15	45	0.113	0	0	0
C7	C	15	45	0.128	0	0	0
C7	C	15	45	0.146	0	0	0
C7	C	15	45	0.166	0	0	0
C7	C	15	45	0.188	0	0	0
C7	C	15	45	0.214	0	0	0
C7	C	15	45	0.243	0	0	0
C7	C	15	45	0.276	0	0	0
C7	C	15	45	0.314	0	0	0
C7	C	15	45	0.357	0	0	0
C7	C	15	45	0.405	0	0	0
C7	C	15	45	0.46	0	0	0
C7	C	15	45	0.523	0	0	0
C7	C	15	45	0.594	0	0	0
C7	C	15	45	0.675	0	0	0
C7	C	15	45	0.767	0	0	0
C7	C	15	45	0.872	0	0	0
C7	C	15	45	0.991	0	0	0
C7	C	15	45	1.13	0	0	0
C7	C	15	45	1.28	0	0	0
C7	C	15	45	1.45	0	0	0
C7	C	15	45	1.65	0	0	0
C7	C	15	45	1.88	0	0	0
C7	C	15	45	2.13	0	0	0
C7	C	15	45	2.42	0	0	0
C7	C	15	45	2.75	0	0	0
C7	C	15	45	3.12	0	0	0
C7	C	15	45	3.55	0	0	0
C7	C	15	45	4.03	0	0	0
C7	C	15	45	4.58	0	0	0
C7	C	15	45	5.21	0	0	0
C7	C	15	45	5.92	0	0	0
C7	C	15	45	6.72	0	0	0
C7	C	15	45	7.64	0	0	0
C7	C	15	45	8.68	0	0	0
C7	C	15	45	9.86	0	0	0

C7	C	15	45	11.2	0	0	0
C7	C	15	45	12.7	0	0	0
C7	C	15	45	14.5	0	0	0
C7	C	15	45	16.4	0	0	0
C7	C	15	45	18.7	0	0	0
C7	C	15	45	21.2	0	0	0
C7	C	15	45	24.1	0	0	0
C7	C	15	45	27.4	0	0	0
C7	C	15	45	31.1	0.1733333333	0.2411111111	-0.067778
C7	C	15	45	35.3	0.866666667	1.03	-0.163333
C7	C	15	45	40.1	2.3	2.524444444	-0.224444
C7	C	15	45	45.6	4.476666667	4.68	-0.203333
C7	C	15	45	51.8	7.153333333	7.24	-0.086667
C7	C	15	45	58.9	9.866666667	9.778888889	0.087778
C7	C	15	45	66.9	12.07333333	11.82111111	0.252222
C7	C	15	45	76	13.3	12.94666667	0.353333
C7	C	15	45	86.4	13.27	12.92111111	0.348889
C7	C	15	45	98.1	11.99	11.74888889	0.241111
C7	C	15	45	111	9.76	9.677777778	0.082222
C7	C	15	45	127	7.053333333	7.132222222	-0.078889
C7	C	15	45	144	4.413333333	4.585555556	-0.172222
C7	C	15	45	163	2.27	2.452222222	-0.182222
C7	C	15	45	186	0.856666667	0.986666667	-0.13
C7	C	15	45	211	0.17	0.223333333	-0.053333
C7	C	15	45	240	0	0	0
C7	C	15	45	272	0	0	0
C7	C	15	45	310	0	0	0
C7	C	15	45	352	0	0	0
C7	C	15	45	400	0	0	0
C7	C	15	45	454	0	0	0
C7	C	15	45	516	0	0	0
C7	C	15	45	586	0	0	0
C7	C	15	45	666	0	0	0
C7	C	15	45	756	0	0	0
C7	C	15	45	859	0	0	0
C7	C	15	45	976	0	0	0
C7	C	15	45	1110	0	0	0
C7	C	15	45	1260	0	0	0
C7	C	15	45	1430	0	0	0
C7	C	15	45	1630	0	0	0
C7	C	15	45	1850	0	0	0
C7	C	15	45	2100	0	0	0
C7	C	15	45	2390	0	0	0
C7	C	15	45	2710	0	0	0
C7	C	15	45	3080	0	0	0
C8	C	25	45	0.01	0	0	0
C8	C	25	45	0.0114	0	0	0
C8	C	25	45	0.0129	0	0	0
C8	C	25	45	0.0147	0	0	0
C8	C	25	45	0.0167	0	0	0
C8	C	25	45	0.0189	0	0	0
C8	C	25	45	0.0215	0	0	0
C8	C	25	45	0.0244	0	0	0
C8	C	25	45	0.0278	0	0	0
C8	C	25	45	0.0315	0	0	0
C8	C	25	45	0.0358	0	0	0
C8	C	25	45	0.0407	0	0	0
C8	C	25	45	0.0463	0	0	0
C8	C	25	45	0.0526	0	0	0
C8	C	25	45	0.0597	0	0	0
C8	C	25	45	0.0679	0	0	0
C8	C	25	45	0.0771	0	0	0
C8	C	25	45	0.0876	0	0	0
C8	C	25	45	0.0995	0	0	0

C8	C	25	45	0.113	0	0	0
C8	C	25	45	0.128	0	0	0
C8	C	25	45	0.146	0	0	0
C8	C	25	45	0.166	0	0	0
C8	C	25	45	0.188	0	0	0
C8	C	25	45	0.214	0	0	0
C8	C	25	45	0.243	0	0	0
C8	C	25	45	0.276	0	0	0
C8	C	25	45	0.314	0	0	0
C8	C	25	45	0.357	0	0	0
C8	C	25	45	0.405	0	0	0
C8	C	25	45	0.46	0	0	0
C8	C	25	45	0.523	0	0	0
C8	C	25	45	0.594	0	0	0
C8	C	25	45	0.675	0	0	0
C8	C	25	45	0.767	0	0	0
C8	C	25	45	0.872	0	0	0
C8	C	25	45	0.991	0	0	0
C8	C	25	45	1.13	0	0	0
C8	C	25	45	1.28	0	0	0
C8	C	25	45	1.45	0	0	0
C8	C	25	45	1.65	0	0	0
C8	C	25	45	1.88	0	0	0
C8	C	25	45	2.13	0	0	0
C8	C	25	45	2.42	0	0	0
C8	C	25	45	2.75	0	0	0
C8	C	25	45	3.12	0	0	0
C8	C	25	45	3.55	0	0	0
C8	C	25	45	4.03	0	0	0
C8	C	25	45	4.58	0	0	0
C8	C	25	45	5.21	0	0	0
C8	C	25	45	5.92	0	0	0
C8	C	25	45	6.72	0	0	0
C8	C	25	45	7.64	0	0	0
C8	C	25	45	8.68	0	0	0
C8	C	25	45	9.86	0	0	0
C8	C	25	45	11.2	0	0	0
C8	C	25	45	12.7	0	0	0
C8	C	25	45	14.5	0	0	0
C8	C	25	45	16.4	0	0	0
C8	C	25	45	18.7	0	0	0
C8	C	25	45	21.2	0	0	0
C8	C	25	45	24.1	0	0	0
C8	C	25	45	27.4	0	0	0
C8	C	25	45	31.1	0.1733333333	0.2411111111	-0.067778
C8	C	25	45	35.3	0.86	1.03	-0.17
C8	C	25	45	40.1	2.286666667	2.524444444	-0.237778
C8	C	25	45	45.6	4.456666667	4.68	-0.223333
C8	C	25	45	51.8	7.12	7.24	-0.12
C8	C	25	45	58.9	9.84	9.778888889	0.061111
C8	C	25	45	66.9	12.05666667	11.82111111	0.235556
C8	C	25	45	76	13.29666667	12.94666667	0.35
C8	C	25	45	86.4	13.27666667	12.92111111	0.355556
C8	C	25	45	98.1	12.01	11.74888889	0.261111
C8	C	25	45	111	9.783333333	9.677777778	0.105556
C8	C	25	45	127	7.08	7.132222222	-0.052222
C8	C	25	45	144	4.43	4.585555556	-0.155556
C8	C	25	45	163	2.28	2.452222222	-0.172222
C8	C	25	45	186	0.856666667	0.986666667	-0.13
C8	C	25	45	211	0.17	0.2233333333	-0.053333
C8	C	25	45	240	0	0	0
C8	C	25	45	272	0	0	0
C8	C	25	45	310	0	0	0
C8	C	25	45	352	0	0	0

C8	C	25	45	400	0	0	0
C8	C	25	45	454	0	0	0
C8	C	25	45	516	0	0	0
C8	C	25	45	586	0	0	0
C8	C	25	45	666	0	0	0
C8	C	25	45	756	0	0	0
C8	C	25	45	859	0	0	0
C8	C	25	45	976	0	0	0
C8	C	25	45	1110	0	0	0
C8	C	25	45	1260	0	0	0
C8	C	25	45	1430	0	0	0
C8	C	25	45	1630	0	0	0
C8	C	25	45	1850	0	0	0
C8	C	25	45	2100	0	0	0
C8	C	25	45	2390	0	0	0
C8	C	25	45	2710	0	0	0
C8	C	25	45	3080	0	0	0
C9	C	35	45	0.01	0	0	0
C9	C	35	45	0.0114	0	0	0
C9	C	35	45	0.0129	0	0	0
C9	C	35	45	0.0147	0	0	0
C9	C	35	45	0.0167	0	0	0
C9	C	35	45	0.0189	0	0	0
C9	C	35	45	0.0215	0	0	0
C9	C	35	45	0.0244	0	0	0
C9	C	35	45	0.0278	0	0	0
C9	C	35	45	0.0315	0	0	0
C9	C	35	45	0.0358	0	0	0
C9	C	35	45	0.0407	0	0	0
C9	C	35	45	0.0463	0	0	0
C9	C	35	45	0.0526	0	0	0
C9	C	35	45	0.0597	0	0	0
C9	C	35	45	0.0679	0	0	0
C9	C	35	45	0.0771	0	0	0
C9	C	35	45	0.0876	0	0	0
C9	C	35	45	0.0995	0	0	0
C9	C	35	45	0.113	0	0	0
C9	C	35	45	0.128	0	0	0
C9	C	35	45	0.146	0	0	0
C9	C	35	45	0.166	0	0	0
C9	C	35	45	0.188	0	0	0
C9	C	35	45	0.214	0	0	0
C9	C	35	45	0.243	0	0	0
C9	C	35	45	0.276	0	0	0
C9	C	35	45	0.314	0	0	0
C9	C	35	45	0.357	0	0	0
C9	C	35	45	0.405	0	0	0
C9	C	35	45	0.46	0	0	0
C9	C	35	45	0.523	0	0	0
C9	C	35	45	0.594	0	0	0
C9	C	35	45	0.675	0	0	0
C9	C	35	45	0.767	0	0	0
C9	C	35	45	0.872	0	0	0
C9	C	35	45	0.991	0	0	0
C9	C	35	45	1.13	0	0	0
C9	C	35	45	1.28	0	0	0
C9	C	35	45	1.45	0	0	0
C9	C	35	45	1.65	0	0	0
C9	C	35	45	1.88	0	0	0
C9	C	35	45	2.13	0	0	0
C9	C	35	45	2.42	0	0	0
C9	C	35	45	2.75	0	0	0
C9	C	35	45	3.12	0	0	0
C9	C	35	45	3.55	0	0	0

C9	C	35	45	4.03	0	0	0
C9	C	35	45	4.58	0	0	0
C9	C	35	45	5.21	0	0	0
C9	C	35	45	5.92	0	0	0
C9	C	35	45	6.72	0	0	0
C9	C	35	45	7.64	0	0	0
C9	C	35	45	8.68	0	0	0
C9	C	35	45	9.86	0	0	0
C9	C	35	45	11.2	0	0	0
C9	C	35	45	12.7	0	0	0
C9	C	35	45	14.5	0	0	0
C9	C	35	45	16.4	0	0	0
C9	C	35	45	18.7	0	0	0
C9	C	35	45	21.2	0	0	0
C9	C	35	45	24.1	0	0	0
C9	C	35	45	27.4	0	0	0
C9	C	35	45	31.1	0.2133333333	0.2411111111	-0.027778
C9	C	35	45	35.3	0.9533333333	1.03	-0.076667
C9	C	35	45	40.1	2.4233333333	2.5244444444	-0.101111
C9	C	35	45	45.6	4.6033333333	4.68	-0.076667
C9	C	35	45	51.8	7.2333333333	7.24	-0.006667
C9	C	35	45	58.9	9.87	9.778888889	0.091111
C9	C	35	45	66.9	12	11.821111111	0.178889
C9	C	35	45	76	13.16666667	12.94666667	0.22
C9	C	35	45	86.4	13.11666667	12.921111111	0.195556
C9	C	35	45	98.1	11.86	11.74888889	0.111111
C9	C	35	45	111	9.6833333333	9.677777778	0.005556
C9	C	35	45	127	7.04	7.132222222	-0.092222
C9	C	35	45	144	4.44	4.585555556	-0.145556
C9	C	35	45	163	2.3133333333	2.452222222	-0.138889
C9	C	35	45	186	0.89	0.986666667	-0.096667
C9	C	35	45	211	0.186666667	0.2233333333	-0.036667
C9	C	35	45	240	0	0	0
C9	C	35	45	272	0	0	0
C9	C	35	45	310	0	0	0
C9	C	35	45	352	0	0	0
C9	C	35	45	400	0	0	0
C9	C	35	45	454	0	0	0
C9	C	35	45	516	0	0	0
C9	C	35	45	586	0	0	0
C9	C	35	45	666	0	0	0
C9	C	35	45	756	0	0	0
C9	C	35	45	859	0	0	0
C9	C	35	45	976	0	0	0
C9	C	35	45	1110	0	0	0
C9	C	35	45	1260	0	0	0
C9	C	35	45	1430	0	0	0
C9	C	35	45	1630	0	0	0
C9	C	35	45	1850	0	0	0
C9	C	35	45	2100	0	0	0
C9	C	35	45	2390	0	0	0
C9	C	35	45	2710	0	0	0
C9	C	35	45	3080	0	0	0
C10	C	15	90	0.01	0	0	0
C10	C	15	90	0.0114	0	0	0
C10	C	15	90	0.0129	0	0	0
C10	C	15	90	0.0147	0	0	0
C10	C	15	90	0.0167	0	0	0
C10	C	15	90	0.0189	0	0	0
C10	C	15	90	0.0215	0	0	0
C10	C	15	90	0.0244	0	0	0
C10	C	15	90	0.0278	0	0	0
C10	C	15	90	0.0315	0	0	0
C10	C	15	90	0.0358	0	0	0

C10	C	15	90	0.0407	0	0	0
C10	C	15	90	0.0463	0	0	0
C10	C	15	90	0.0526	0	0	0
C10	C	15	90	0.0597	0	0	0
C10	C	15	90	0.0679	0	0	0
C10	C	15	90	0.0771	0	0	0
C10	C	15	90	0.0876	0	0	0
C10	C	15	90	0.0995	0	0	0
C10	C	15	90	0.113	0	0	0
C10	C	15	90	0.128	0	0	0
C10	C	15	90	0.146	0	0	0
C10	C	15	90	0.166	0	0	0
C10	C	15	90	0.188	0	0	0
C10	C	15	90	0.214	0	0	0
C10	C	15	90	0.243	0	0	0
C10	C	15	90	0.276	0	0	0
C10	C	15	90	0.314	0	0	0
C10	C	15	90	0.357	0	0	0
C10	C	15	90	0.405	0	0	0
C10	C	15	90	0.46	0	0	0
C10	C	15	90	0.523	0	0	0
C10	C	15	90	0.594	0	0	0
C10	C	15	90	0.675	0	0	0
C10	C	15	90	0.767	0	0	0
C10	C	15	90	0.872	0	0	0
C10	C	15	90	0.991	0	0	0
C10	C	15	90	1.13	0	0	0
C10	C	15	90	1.28	0	0	0
C10	C	15	90	1.45	0	0	0
C10	C	15	90	1.65	0	0	0
C10	C	15	90	1.88	0	0	0
C10	C	15	90	2.13	0	0	0
C10	C	15	90	2.42	0	0	0
C10	C	15	90	2.75	0	0	0
C10	C	15	90	3.12	0	0	0
C10	C	15	90	3.55	0	0	0
C10	C	15	90	4.03	0	0	0
C10	C	15	90	4.58	0	0	0
C10	C	15	90	5.21	0	0	0
C10	C	15	90	5.92	0	0	0
C10	C	15	90	6.72	0	0	0
C10	C	15	90	7.64	0	0	0
C10	C	15	90	8.68	0	0	0
C10	C	15	90	9.86	0	0	0
C10	C	15	90	11.2	0	0	0
C10	C	15	90	12.7	0	0	0
C10	C	15	90	14.5	0	0	0
C10	C	15	90	16.4	0	0	0
C10	C	15	90	18.7	0	0	0
C10	C	15	90	21.2	0	0	0
C10	C	15	90	24.1	0	0	0
C10	C	15	90	27.4	0	0	0
C10	C	15	90	31.1	0.236666667	0.241111111	-0.004444
C10	C	15	90	35.3	1.016666667	1.03	-0.013333
C10	C	15	90	40.1	2.51	2.524444444	-0.014444
C10	C	15	90	45.6	4.673333333	4.68	-0.006667
C10	C	15	90	51.8	7.26	7.24	0.02
C10	C	15	90	58.9	9.83	9.778888889	0.051111
C10	C	15	90	66.9	11.89333333	11.82111111	0.072222
C10	C	15	90	76	13.02333333	12.94666667	0.076667
C10	C	15	90	86.4	12.98333333	12.92111111	0.062222
C10	C	15	90	98.1	11.77	11.74888889	0.021111
C10	C	15	90	111	9.656666667	9.677777778	-0.021111
C10	C	15	90	127	7.076666667	7.132222222	-0.055556

C10	C	15	90	144	4.52	4.585555556	-0.065556
C10	C	15	90	163	2.393333333	2.452222222	-0.058889
C10	C	15	90	186	0.946666667	0.986666667	-0.04
C10	C	15	90	211	0.21	0.223333333	-0.013333
C10	C	15	90	240	0	0	0
C10	C	15	90	272	0	0	0
C10	C	15	90	310	0	0	0
C10	C	15	90	352	0	0	0
C10	C	15	90	400	0	0	0
C10	C	15	90	454	0	0	0
C10	C	15	90	516	0	0	0
C10	C	15	90	586	0	0	0
C10	C	15	90	666	0	0	0
C10	C	15	90	756	0	0	0
C10	C	15	90	859	0	0	0
C10	C	15	90	976	0	0	0
C10	C	15	90	1110	0	0	0
C10	C	15	90	1260	0	0	0
C10	C	15	90	1430	0	0	0
C10	C	15	90	1630	0	0	0
C10	C	15	90	1850	0	0	0
C10	C	15	90	2100	0	0	0
C10	C	15	90	2390	0	0	0
C10	C	15	90	2710	0	0	0
C10	C	15	90	3080	0	0	0
C11	C	25	90	0.01	0	0	0
C11	C	25	90	0.0114	0	0	0
C11	C	25	90	0.0129	0	0	0
C11	C	25	90	0.0147	0	0	0
C11	C	25	90	0.0167	0	0	0
C11	C	25	90	0.0189	0	0	0
C11	C	25	90	0.0215	0	0	0
C11	C	25	90	0.0244	0	0	0
C11	C	25	90	0.0278	0	0	0
C11	C	25	90	0.0315	0	0	0
C11	C	25	90	0.0358	0	0	0
C11	C	25	90	0.0407	0	0	0
C11	C	25	90	0.0463	0	0	0
C11	C	25	90	0.0526	0	0	0
C11	C	25	90	0.0597	0	0	0
C11	C	25	90	0.0679	0	0	0
C11	C	25	90	0.0771	0	0	0
C11	C	25	90	0.0876	0	0	0
C11	C	25	90	0.0995	0	0	0
C11	C	25	90	0.113	0	0	0
C11	C	25	90	0.128	0	0	0
C11	C	25	90	0.146	0	0	0
C11	C	25	90	0.166	0	0	0
C11	C	25	90	0.188	0	0	0
C11	C	25	90	0.214	0	0	0
C11	C	25	90	0.243	0	0	0
C11	C	25	90	0.276	0	0	0
C11	C	25	90	0.314	0	0	0
C11	C	25	90	0.357	0	0	0
C11	C	25	90	0.405	0	0	0
C11	C	25	90	0.46	0	0	0
C11	C	25	90	0.523	0	0	0
C11	C	25	90	0.594	0	0	0
C11	C	25	90	0.675	0	0	0
C11	C	25	90	0.767	0	0	0
C11	C	25	90	0.872	0	0	0
C11	C	25	90	0.991	0	0	0
C11	C	25	90	1.13	0	0	0
C11	C	25	90	1.28	0	0	0

C11	C	25	90	1.45	0	0	0
C11	C	25	90	1.65	0	0	0
C11	C	25	90	1.88	0	0	0
C11	C	25	90	2.13	0	0	0
C11	C	25	90	2.42	0	0	0
C11	C	25	90	2.75	0	0	0
C11	C	25	90	3.12	0	0	0
C11	C	25	90	3.55	0	0	0
C11	C	25	90	4.03	0	0	0
C11	C	25	90	4.58	0	0	0
C11	C	25	90	5.21	0	0	0
C11	C	25	90	5.92	0	0	0
C11	C	25	90	6.72	0	0	0
C11	C	25	90	7.64	0	0	0
C11	C	25	90	8.68	0	0	0
C11	C	25	90	9.86	0	0	0
C11	C	25	90	11.2	0	0	0
C11	C	25	90	12.7	0	0	0
C11	C	25	90	14.5	0	0	0
C11	C	25	90	16.4	0	0	0
C11	C	25	90	18.7	0	0	0
C11	C	25	90	21.2	0	0	0
C11	C	25	90	24.1	0	0	0
C11	C	25	90	27.4	0	0	0
C11	C	25	90	31.1	0.25	0.2411111111	0.008889
C11	C	25	90	35.3	1.043333333	1.03	0.013333
C11	C	25	90	40.1	2.546666667	2.524444444	0.022222
C11	C	25	90	45.6	4.716666667	4.68	0.036667
C11	C	25	90	51.8	7.3	7.24	0.06
C11	C	25	90	58.9	9.863333333	9.778888889	0.084444
C11	C	25	90	66.9	11.91333333	11.82111111	0.092222
C11	C	25	90	76	13.02333333	12.94666667	0.076667
C11	C	25	90	86.4	12.96333333	12.92111111	0.042222
C11	C	25	90	98.1	11.74	11.74888889	-0.008889
C11	C	25	90	111	9.616666667	9.677777778	-0.061111
C11	C	25	90	127	7.04	7.132222222	-0.092222
C11	C	25	90	144	4.48	4.585555556	-0.105556
C11	C	25	90	163	2.363333333	2.452222222	-0.088889
C11	C	25	90	186	0.93	0.986666667	-0.056667
C11	C	25	90	211	0.203333333	0.223333333	-0.02
C11	C	25	90	240	0	0	0
C11	C	25	90	272	0	0	0
C11	C	25	90	310	0	0	0
C11	C	25	90	352	0	0	0
C11	C	25	90	400	0	0	0
C11	C	25	90	454	0	0	0
C11	C	25	90	516	0	0	0
C11	C	25	90	586	0	0	0
C11	C	25	90	666	0	0	0
C11	C	25	90	756	0	0	0
C11	C	25	90	859	0	0	0
C11	C	25	90	976	0	0	0
C11	C	25	90	1110	0	0	0
C11	C	25	90	1260	0	0	0
C11	C	25	90	1430	0	0	0
C11	C	25	90	1630	0	0	0
C11	C	25	90	1850	0	0	0
C11	C	25	90	2100	0	0	0
C11	C	25	90	2390	0	0	0
C11	C	25	90	2710	0	0	0
C11	C	25	90	3080	0	0	0
C12	C	35	90	0.01	0	0	0
C12	C	35	90	0.0114	0	0	0
C12	C	35	90	0.0129	0	0	0

C12	C	35	90	0.0147	0	0	0
C12	C	35	90	0.0167	0	0	0
C12	C	35	90	0.0189	0	0	0
C12	C	35	90	0.0215	0	0	0
C12	C	35	90	0.0244	0	0	0
C12	C	35	90	0.0278	0	0	0
C12	C	35	90	0.0315	0	0	0
C12	C	35	90	0.0358	0	0	0
C12	C	35	90	0.0407	0	0	0
C12	C	35	90	0.0463	0	0	0
C12	C	35	90	0.0526	0	0	0
C12	C	35	90	0.0597	0	0	0
C12	C	35	90	0.0679	0	0	0
C12	C	35	90	0.0771	0	0	0
C12	C	35	90	0.0876	0	0	0
C12	C	35	90	0.0995	0	0	0
C12	C	35	90	0.113	0	0	0
C12	C	35	90	0.128	0	0	0
C12	C	35	90	0.146	0	0	0
C12	C	35	90	0.166	0	0	0
C12	C	35	90	0.188	0	0	0
C12	C	35	90	0.214	0	0	0
C12	C	35	90	0.243	0	0	0
C12	C	35	90	0.276	0	0	0
C12	C	35	90	0.314	0	0	0
C12	C	35	90	0.357	0	0	0
C12	C	35	90	0.405	0	0	0
C12	C	35	90	0.46	0	0	0
C12	C	35	90	0.523	0	0	0
C12	C	35	90	0.594	0	0	0
C12	C	35	90	0.675	0	0	0
C12	C	35	90	0.767	0	0	0
C12	C	35	90	0.872	0	0	0
C12	C	35	90	0.991	0	0	0
C12	C	35	90	1.13	0	0	0
C12	C	35	90	1.28	0	0	0
C12	C	35	90	1.45	0	0	0
C12	C	35	90	1.65	0	0	0
C12	C	35	90	1.88	0	0	0
C12	C	35	90	2.13	0	0	0
C12	C	35	90	2.42	0	0	0
C12	C	35	90	2.75	0	0	0
C12	C	35	90	3.12	0	0	0
C12	C	35	90	3.55	0	0	0
C12	C	35	90	4.03	0	0	0
C12	C	35	90	4.58	0	0	0
C12	C	35	90	5.21	0	0	0
C12	C	35	90	5.92	0	0	0
C12	C	35	90	6.72	0	0	0
C12	C	35	90	7.64	0	0	0
C12	C	35	90	8.68	0	0	0
C12	C	35	90	9.86	0	0	0
C12	C	35	90	11.2	0	0	0
C12	C	35	90	12.7	0	0	0
C12	C	35	90	14.5	0	0	0
C12	C	35	90	16.4	0	0	0
C12	C	35	90	18.7	0	0	0
C12	C	35	90	21.2	0	0	0
C12	C	35	90	24.1	0	0	0
C12	C	35	90	27.4	0	0	0
C12	C	35	90	31.1	0.25	0.2411111111	0.008889
C12	C	35	90	35.3	1.04	1.03	0.01
C12	C	35	90	40.1	2.54	2.5244444444	0.015556
C12	C	35	90	45.6	4.716666667	4.68	0.036667

C12	C		35	90	51.8	7.3	7.24	0.06
C12	C		35	90	58.9	9.86	9.778888889	0.081111
C12	C		35	90	66.9	11.91333333	11.82111111	0.092222
C12	C		35	90	76	13.03	12.94666667	0.083333
C12	C		35	90	86.4	12.96666667	12.92111111	0.045556
C12	C		35	90	98.1	11.74333333	11.74888889	-0.005556
C12	C		35	90	111	9.626666667	9.677777778	-0.051111
C12	C		35	90	127	7.04	7.132222222	-0.092222
C12	C		35	90	144	4.48	4.585555556	-0.105556
C12	C		35	90	163	2.363333333	2.452222222	-0.088889
C12	C		35	90	186	0.93	0.986666667	-0.056667
C12	C		35	90	211	0.203333333	0.223333333	-0.02
C12	C		35	90	240	0	0	0
C12	C		35	90	272	0	0	0
C12	C		35	90	310	0	0	0
C12	C		35	90	352	0	0	0
C12	C		35	90	400	0	0	0
C12	C		35	90	454	0	0	0
C12	C		35	90	516	0	0	0
C12	C		35	90	586	0	0	0
C12	C		35	90	666	0	0	0
C12	C		35	90	756	0	0	0
C12	C		35	90	859	0	0	0
C12	C		35	90	976	0	0	0
C12	C		35	90	1110	0	0	0
C12	C		35	90	1260	0	0	0
C12	C		35	90	1430	0	0	0
C12	C		35	90	1630	0	0	0
C12	C		35	90	1850	0	0	0
C12	C		35	90	2100	0	0	0
C12	C		35	90	2390	0	0	0
C12	C		35	90	2710	0	0	0
C12	C		35	90	3080	0	0	0
TV1	T	Virgin	Virgin		0.01	0	0	0
TV1	T	Virgin	Virgin		0.0114	0	0	0
TV1	T	Virgin	Virgin		0.0129	0	0	0
TV1	T	Virgin	Virgin		0.0147	0	0	0
TV1	T	Virgin	Virgin		0.0167	0	0	0
TV1	T	Virgin	Virgin		0.0189	0	0	0
TV1	T	Virgin	Virgin		0.0215	0	0	0
TV1	T	Virgin	Virgin		0.0244	0	0	0
TV1	T	Virgin	Virgin		0.0278	0	0	0
TV1	T	Virgin	Virgin		0.0315	0	0	0
TV1	T	Virgin	Virgin		0.0358	0	0	0
TV1	T	Virgin	Virgin		0.0407	0	0	0
TV1	T	Virgin	Virgin		0.0463	0	0	0
TV1	T	Virgin	Virgin		0.0526	0	0	0
TV1	T	Virgin	Virgin		0.0597	0	0	0
TV1	T	Virgin	Virgin		0.0679	0	0	0
TV1	T	Virgin	Virgin		0.0771	0	0	0
TV1	T	Virgin	Virgin		0.0876	0	0	0
TV1	T	Virgin	Virgin		0.0995	0	0	0
TV1	T	Virgin	Virgin		0.113	0	0	0
TV1	T	Virgin	Virgin		0.128	0	0	0
TV1	T	Virgin	Virgin		0.146	0	0	0
TV1	T	Virgin	Virgin		0.166	0	0	0
TV1	T	Virgin	Virgin		0.188	0	0	0
TV1	T	Virgin	Virgin		0.214	0	0	0
TV1	T	Virgin	Virgin		0.243	0	0	0
TV1	T	Virgin	Virgin		0.276	0	0	0
TV1	T	Virgin	Virgin		0.314	0	0	0
TV1	T	Virgin	Virgin		0.357	0	0	0
TV1	T	Virgin	Virgin		0.405	0	0	0
TV1	T	Virgin	Virgin		0.46	0	0	0

TV1	T	Virgin	Virgin	0.523	0	0	0
TV1	T	Virgin	Virgin	0.594	0	0	0
TV1	T	Virgin	Virgin	0.675	0	0	0
TV1	T	Virgin	Virgin	0.767	0	0	0
TV1	T	Virgin	Virgin	0.872	0	0	0
TV1	T	Virgin	Virgin	0.991	0	0	0
TV1	T	Virgin	Virgin	1.13	0	0	0
TV1	T	Virgin	Virgin	1.28	0	0	0
TV1	T	Virgin	Virgin	1.45	0	0	0
TV1	T	Virgin	Virgin	1.65	0	0	0
TV1	T	Virgin	Virgin	1.88	0	0	0
TV1	T	Virgin	Virgin	2.13	0	0	0
TV1	T	Virgin	Virgin	2.42	0	0	0
TV1	T	Virgin	Virgin	2.75	0	0	0
TV1	T	Virgin	Virgin	3.12	0	0	0
TV1	T	Virgin	Virgin	3.55	0	0	0
TV1	T	Virgin	Virgin	4.03	0	0	0
TV1	T	Virgin	Virgin	4.58	0	0	0
TV1	T	Virgin	Virgin	5.21	0	0	0
TV1	T	Virgin	Virgin	5.92	0	0	0
TV1	T	Virgin	Virgin	6.72	0	0	0
TV1	T	Virgin	Virgin	7.64	0	0	0
TV1	T	Virgin	Virgin	8.68	0	0	0
TV1	T	Virgin	Virgin	9.86	0	0	0
TV1	T	Virgin	Virgin	11.2	0	0	0
TV1	T	Virgin	Virgin	12.7	0	0	0
TV1	T	Virgin	Virgin	14.5	0	0	0
TV1	T	Virgin	Virgin	16.4	0	0	0
TV1	T	Virgin	Virgin	18.7	0	0	0
TV1	T	Virgin	Virgin	21.2	0	0	0
TV1	T	Virgin	Virgin	24.1	0	0	0
TV1	T	Virgin	Virgin	27.4	0.166666667	0.168333333	-0.001667
TV1	T	Virgin	Virgin	31.1	0.73	0.748333333	-0.018333
TV1	T	Virgin	Virgin	35.3	1.89	1.935	-0.045
TV1	T	Virgin	Virgin	40.1	3.683333333	3.75	-0.066667
TV1	T	Virgin	Virgin	45.6	5.97	6.048333333	-0.078333
TV1	T	Virgin	Virgin	51.8	8.436666667	8.515	-0.078333
TV1	T	Virgin	Virgin	58.9	10.67	10.733333333	-0.063333
TV1	T	Virgin	Virgin	66.9	12.25	12.28	-0.03
TV1	T	Virgin	Virgin	76	12.836666667	12.83	0.006667
TV1	T	Virgin	Virgin	86.4	12.31	12.265	0.045
TV1	T	Virgin	Virgin	98.1	10.756666667	10.688333333	0.068333
TV1	T	Virgin	Virgin	111	8.49	8.408333333	0.081667
TV1	T	Virgin	Virgin	127	5.936666667	5.86	0.076667
TV1	T	Virgin	Virgin	144	3.55	3.493333333	0.056667
TV1	T	Virgin	Virgin	163	1.7	1.666666667	0.033333
TV1	T	Virgin	Virgin	186	0.55	0.54	0.01
TV1	T	Virgin	Virgin	211	0.073333333	0.071666667	0.001667
TV1	T	Virgin	Virgin	240	0	0	0
TV1	T	Virgin	Virgin	272	0	0	0
TV1	T	Virgin	Virgin	310	0	0	0
TV1	T	Virgin	Virgin	352	0	0	0
TV1	T	Virgin	Virgin	400	0	0	0
TV1	T	Virgin	Virgin	454	0	0	0
TV1	T	Virgin	Virgin	516	0	0	0
TV1	T	Virgin	Virgin	586	0	0	0
TV1	T	Virgin	Virgin	666	0	0	0
TV1	T	Virgin	Virgin	756	0	0	0
TV1	T	Virgin	Virgin	859	0	0	0
TV1	T	Virgin	Virgin	976	0	0	0
TV1	T	Virgin	Virgin	1110	0	0	0
TV1	T	Virgin	Virgin	1260	0	0	0
TV1	T	Virgin	Virgin	1430	0	0	0
TV1	T	Virgin	Virgin	1630	0	0	0

TV1	T	Virgin	Virgin	1850	0	0	0
TV1	T	Virgin	Virgin	2100	0	0	0
TV1	T	Virgin	Virgin	2390	0	0	0
TV1	T	Virgin	Virgin	2710	0	0	0
TV1	T	Virgin	Virgin	3080	0	0	0
TV2	T	Virgin	Virgin	0.01	0	0	0
TV2	T	Virgin	Virgin	0.0114	0	0	0
TV2	T	Virgin	Virgin	0.0129	0	0	0
TV2	T	Virgin	Virgin	0.0147	0	0	0
TV2	T	Virgin	Virgin	0.0167	0	0	0
TV2	T	Virgin	Virgin	0.0189	0	0	0
TV2	T	Virgin	Virgin	0.0215	0	0	0
TV2	T	Virgin	Virgin	0.0244	0	0	0
TV2	T	Virgin	Virgin	0.0278	0	0	0
TV2	T	Virgin	Virgin	0.0315	0	0	0
TV2	T	Virgin	Virgin	0.0358	0	0	0
TV2	T	Virgin	Virgin	0.0407	0	0	0
TV2	T	Virgin	Virgin	0.0463	0	0	0
TV2	T	Virgin	Virgin	0.0526	0	0	0
TV2	T	Virgin	Virgin	0.0597	0	0	0
TV2	T	Virgin	Virgin	0.0679	0	0	0
TV2	T	Virgin	Virgin	0.0771	0	0	0
TV2	T	Virgin	Virgin	0.0876	0	0	0
TV2	T	Virgin	Virgin	0.0995	0	0	0
TV2	T	Virgin	Virgin	0.113	0	0	0
TV2	T	Virgin	Virgin	0.128	0	0	0
TV2	T	Virgin	Virgin	0.146	0	0	0
TV2	T	Virgin	Virgin	0.166	0	0	0
TV2	T	Virgin	Virgin	0.188	0	0	0
TV2	T	Virgin	Virgin	0.214	0	0	0
TV2	T	Virgin	Virgin	0.243	0	0	0
TV2	T	Virgin	Virgin	0.276	0	0	0
TV2	T	Virgin	Virgin	0.314	0	0	0
TV2	T	Virgin	Virgin	0.357	0	0	0
TV2	T	Virgin	Virgin	0.405	0	0	0
TV2	T	Virgin	Virgin	0.46	0	0	0
TV2	T	Virgin	Virgin	0.523	0	0	0
TV2	T	Virgin	Virgin	0.594	0	0	0
TV2	T	Virgin	Virgin	0.675	0	0	0
TV2	T	Virgin	Virgin	0.767	0	0	0
TV2	T	Virgin	Virgin	0.872	0	0	0
TV2	T	Virgin	Virgin	0.991	0	0	0
TV2	T	Virgin	Virgin	1.13	0	0	0
TV2	T	Virgin	Virgin	1.28	0	0	0
TV2	T	Virgin	Virgin	1.45	0	0	0
TV2	T	Virgin	Virgin	1.65	0	0	0
TV2	T	Virgin	Virgin	1.88	0	0	0
TV2	T	Virgin	Virgin	2.13	0	0	0
TV2	T	Virgin	Virgin	2.42	0	0	0
TV2	T	Virgin	Virgin	2.75	0	0	0
TV2	T	Virgin	Virgin	3.12	0	0	0
TV2	T	Virgin	Virgin	3.55	0	0	0
TV2	T	Virgin	Virgin	4.03	0	0	0
TV2	T	Virgin	Virgin	4.58	0	0	0
TV2	T	Virgin	Virgin	5.21	0	0	0
TV2	T	Virgin	Virgin	5.92	0	0	0
TV2	T	Virgin	Virgin	6.72	0	0	0
TV2	T	Virgin	Virgin	7.64	0	0	0
TV2	T	Virgin	Virgin	8.68	0	0	0
TV2	T	Virgin	Virgin	9.86	0	0	0
TV2	T	Virgin	Virgin	11.2	0	0	0
TV2	T	Virgin	Virgin	12.7	0	0	0
TV2	T	Virgin	Virgin	14.5	0	0	0
TV2	T	Virgin	Virgin	16.4	0	0	0

TV2	T	Virgin	Virgin	18.7	0	0	0
TV2	T	Virgin	Virgin	21.2	0	0	0
TV2	T	Virgin	Virgin	24.1	0	0	0
TV2	T	Virgin	Virgin	27.4	0.17	0.168333333	0.001667
TV2	T	Virgin	Virgin	31.1	0.766666667	0.748333333	0.018333
TV2	T	Virgin	Virgin	35.3	1.98	1.935	0.045
TV2	T	Virgin	Virgin	40.1	3.816666667	3.75	0.066667
TV2	T	Virgin	Virgin	45.6	6.126666667	6.048333333	0.078333
TV2	T	Virgin	Virgin	51.8	8.593333333	8.515	0.078333
TV2	T	Virgin	Virgin	58.9	10.79666667	10.73333333	0.063333
TV2	T	Virgin	Virgin	66.9	12.31	12.28	0.03
TV2	T	Virgin	Virgin	76	12.82333333	12.83	-0.006667
TV2	T	Virgin	Virgin	86.4	12.22	12.265	-0.045
TV2	T	Virgin	Virgin	98.1	10.62	10.68833333	-0.068333
TV2	T	Virgin	Virgin	111	8.326666667	8.408333333	-0.081667
TV2	T	Virgin	Virgin	127	5.783333333	5.86	-0.076667
TV2	T	Virgin	Virgin	144	3.436666667	3.493333333	-0.056667
TV2	T	Virgin	Virgin	163	1.633333333	1.666666667	-0.033333
TV2	T	Virgin	Virgin	186	0.53	0.54	-0.01
TV2	T	Virgin	Virgin	211	0.07	0.071666667	-0.001667
TV2	T	Virgin	Virgin	240	0	0	0
TV2	T	Virgin	Virgin	272	0	0	0
TV2	T	Virgin	Virgin	310	0	0	0
TV2	T	Virgin	Virgin	352	0	0	0
TV2	T	Virgin	Virgin	400	0	0	0
TV2	T	Virgin	Virgin	454	0	0	0
TV2	T	Virgin	Virgin	516	0	0	0
TV2	T	Virgin	Virgin	586	0	0	0
TV2	T	Virgin	Virgin	666	0	0	0
TV2	T	Virgin	Virgin	756	0	0	0
TV2	T	Virgin	Virgin	859	0	0	0
TV2	T	Virgin	Virgin	976	0	0	0
TV2	T	Virgin	Virgin	1110	0	0	0
TV2	T	Virgin	Virgin	1260	0	0	0
TV2	T	Virgin	Virgin	1430	0	0	0
TV2	T	Virgin	Virgin	1630	0	0	0
TV2	T	Virgin	Virgin	1850	0	0	0
TV2	T	Virgin	Virgin	2100	0	0	0
TV2	T	Virgin	Virgin	2390	0	0	0
TV2	T	Virgin	Virgin	2710	0	0	0
TV2	T	Virgin	Virgin	3080	0	0	0
CV1	C	Virgin	Virgin	0.01	0	0	0
CV1	C	Virgin	Virgin	0.0114	0	0	0
CV1	C	Virgin	Virgin	0.0129	0	0	0
CV1	C	Virgin	Virgin	0.0147	0	0	0
CV1	C	Virgin	Virgin	0.0167	0	0	0
CV1	C	Virgin	Virgin	0.0189	0	0	0
CV1	C	Virgin	Virgin	0.0215	0	0	0
CV1	C	Virgin	Virgin	0.0244	0	0	0
CV1	C	Virgin	Virgin	0.0278	0	0	0
CV1	C	Virgin	Virgin	0.0315	0	0	0
CV1	C	Virgin	Virgin	0.0358	0	0	0
CV1	C	Virgin	Virgin	0.0407	0	0	0
CV1	C	Virgin	Virgin	0.0463	0	0	0
CV1	C	Virgin	Virgin	0.0526	0	0	0
CV1	C	Virgin	Virgin	0.0597	0	0	0
CV1	C	Virgin	Virgin	0.0679	0	0	0
CV1	C	Virgin	Virgin	0.0771	0	0	0
CV1	C	Virgin	Virgin	0.0876	0	0	0
CV1	C	Virgin	Virgin	0.0995	0	0	0
CV1	C	Virgin	Virgin	0.113	0	0	0
CV1	C	Virgin	Virgin	0.128	0	0	0
CV1	C	Virgin	Virgin	0.146	0	0	0
CV1	C	Virgin	Virgin	0.166	0	0	0

CV1	C	Virgin	Virgin	0.188	0	0	0
CV1	C	Virgin	Virgin	0.214	0	0	0
CV1	C	Virgin	Virgin	0.243	0	0	0
CV1	C	Virgin	Virgin	0.276	0	0	0
CV1	C	Virgin	Virgin	0.314	0	0	0
CV1	C	Virgin	Virgin	0.357	0	0	0
CV1	C	Virgin	Virgin	0.405	0	0	0
CV1	C	Virgin	Virgin	0.46	0	0	0
CV1	C	Virgin	Virgin	0.523	0	0	0
CV1	C	Virgin	Virgin	0.594	0	0	0
CV1	C	Virgin	Virgin	0.675	0	0	0
CV1	C	Virgin	Virgin	0.767	0	0	0
CV1	C	Virgin	Virgin	0.872	0	0	0
CV1	C	Virgin	Virgin	0.991	0	0	0
CV1	C	Virgin	Virgin	1.13	0	0	0
CV1	C	Virgin	Virgin	1.28	0	0	0
CV1	C	Virgin	Virgin	1.45	0	0	0
CV1	C	Virgin	Virgin	1.65	0	0	0
CV1	C	Virgin	Virgin	1.88	0	0	0
CV1	C	Virgin	Virgin	2.13	0	0	0
CV1	C	Virgin	Virgin	2.42	0	0	0
CV1	C	Virgin	Virgin	2.75	0	0	0
CV1	C	Virgin	Virgin	3.12	0	0	0
CV1	C	Virgin	Virgin	3.55	0	0	0
CV1	C	Virgin	Virgin	4.03	0	0	0
CV1	C	Virgin	Virgin	4.58	0	0	0
CV1	C	Virgin	Virgin	5.21	0	0	0
CV1	C	Virgin	Virgin	5.92	0	0	0
CV1	C	Virgin	Virgin	6.72	0	0	0
CV1	C	Virgin	Virgin	7.64	0	0	0
CV1	C	Virgin	Virgin	8.68	0	0	0
CV1	C	Virgin	Virgin	9.86	0	0	0
CV1	C	Virgin	Virgin	11.2	0	0	0
CV1	C	Virgin	Virgin	12.7	0	0	0
CV1	C	Virgin	Virgin	14.5	0	0	0
CV1	C	Virgin	Virgin	16.4	0	0	0
CV1	C	Virgin	Virgin	18.7	0	0	0
CV1	C	Virgin	Virgin	21.2	0	0	0
CV1	C	Virgin	Virgin	24.1	0	0	0
CV1	C	Virgin	Virgin	27.4	0	0	0
CV1	C	Virgin	Virgin	31.1	0.22	0.2411111111	-0.021111
CV1	C	Virgin	Virgin	35.3	0.976666667	1.03	-0.053333
CV1	C	Virgin	Virgin	40.1	2.443333333	2.524444444	-0.081111
CV1	C	Virgin	Virgin	45.6	4.593333333	4.68	-0.086667
CV1	C	Virgin	Virgin	51.8	7.173333333	7.24	-0.066667
CV1	C	Virgin	Virgin	58.9	9.753333333	9.778888889	-0.025556
CV1	C	Virgin	Virgin	66.9	11.84666667	11.82111111	0.025556
CV1	C	Virgin	Virgin	76	13.01666667	12.94666667	0.07
CV1	C	Virgin	Virgin	86.4	13.01333333	12.92111111	0.092222
CV1	C	Virgin	Virgin	98.1	11.83666667	11.74888889	0.087778
CV1	C	Virgin	Virgin	111	9.743333333	9.677777778	0.065556
CV1	C	Virgin	Virgin	127	7.16	7.132222222	0.027778
CV1	C	Virgin	Virgin	144	4.583333333	4.585555556	-0.002222
CV1	C	Virgin	Virgin	163	2.436666667	2.452222222	-0.015556
CV1	C	Virgin	Virgin	186	0.97	0.986666667	-0.016667
CV1	C	Virgin	Virgin	211	0.216666667	0.223333333	-0.006667
CV1	C	Virgin	Virgin	240	0	0	0
CV1	C	Virgin	Virgin	272	0	0	0
CV1	C	Virgin	Virgin	310	0	0	0
CV1	C	Virgin	Virgin	352	0	0	0
CV1	C	Virgin	Virgin	400	0	0	0
CV1	C	Virgin	Virgin	454	0	0	0
CV1	C	Virgin	Virgin	516	0	0	0
CV1	C	Virgin	Virgin	586	0	0	0

CV1	C	Virgin	Virgin	666	0	0	0
CV1	C	Virgin	Virgin	756	0	0	0
CV1	C	Virgin	Virgin	859	0	0	0
CV1	C	Virgin	Virgin	976	0	0	0
CV1	C	Virgin	Virgin	1110	0	0	0
CV1	C	Virgin	Virgin	1260	0	0	0
CV1	C	Virgin	Virgin	1430	0	0	0
CV1	C	Virgin	Virgin	1630	0	0	0
CV1	C	Virgin	Virgin	1850	0	0	0
CV1	C	Virgin	Virgin	2100	0	0	0
CV1	C	Virgin	Virgin	2390	0	0	0
CV1	C	Virgin	Virgin	2710	0	0	0
CV1	C	Virgin	Virgin	3080	0	0	0
CV2	C	Virgin	Virgin	0.01	0	0	0
CV2	C	Virgin	Virgin	0.0114	0	0	0
CV2	C	Virgin	Virgin	0.0129	0	0	0
CV2	C	Virgin	Virgin	0.0147	0	0	0
CV2	C	Virgin	Virgin	0.0167	0	0	0
CV2	C	Virgin	Virgin	0.0189	0	0	0
CV2	C	Virgin	Virgin	0.0215	0	0	0
CV2	C	Virgin	Virgin	0.0244	0	0	0
CV2	C	Virgin	Virgin	0.0278	0	0	0
CV2	C	Virgin	Virgin	0.0315	0	0	0
CV2	C	Virgin	Virgin	0.0358	0	0	0
CV2	C	Virgin	Virgin	0.0407	0	0	0
CV2	C	Virgin	Virgin	0.0463	0	0	0
CV2	C	Virgin	Virgin	0.0526	0	0	0
CV2	C	Virgin	Virgin	0.0597	0	0	0
CV2	C	Virgin	Virgin	0.0679	0	0	0
CV2	C	Virgin	Virgin	0.0771	0	0	0
CV2	C	Virgin	Virgin	0.0876	0	0	0
CV2	C	Virgin	Virgin	0.0995	0	0	0
CV2	C	Virgin	Virgin	0.113	0	0	0
CV2	C	Virgin	Virgin	0.128	0	0	0
CV2	C	Virgin	Virgin	0.146	0	0	0
CV2	C	Virgin	Virgin	0.166	0	0	0
CV2	C	Virgin	Virgin	0.188	0	0	0
CV2	C	Virgin	Virgin	0.214	0	0	0
CV2	C	Virgin	Virgin	0.243	0	0	0
CV2	C	Virgin	Virgin	0.276	0	0	0
CV2	C	Virgin	Virgin	0.314	0	0	0
CV2	C	Virgin	Virgin	0.357	0	0	0
CV2	C	Virgin	Virgin	0.405	0	0	0
CV2	C	Virgin	Virgin	0.46	0	0	0
CV2	C	Virgin	Virgin	0.523	0	0	0
CV2	C	Virgin	Virgin	0.594	0	0	0
CV2	C	Virgin	Virgin	0.675	0	0	0
CV2	C	Virgin	Virgin	0.767	0	0	0
CV2	C	Virgin	Virgin	0.872	0	0	0
CV2	C	Virgin	Virgin	0.991	0	0	0
CV2	C	Virgin	Virgin	1.13	0	0	0
CV2	C	Virgin	Virgin	1.28	0	0	0
CV2	C	Virgin	Virgin	1.45	0	0	0
CV2	C	Virgin	Virgin	1.65	0	0	0
CV2	C	Virgin	Virgin	1.88	0	0	0
CV2	C	Virgin	Virgin	2.13	0	0	0
CV2	C	Virgin	Virgin	2.42	0	0	0
CV2	C	Virgin	Virgin	2.75	0	0	0
CV2	C	Virgin	Virgin	3.12	0	0	0
CV2	C	Virgin	Virgin	3.55	0	0	0
CV2	C	Virgin	Virgin	4.03	0	0	0
CV2	C	Virgin	Virgin	4.58	0	0	0
CV2	C	Virgin	Virgin	5.21	0	0	0
CV2	C	Virgin	Virgin	5.92	0	0	0

CV2	C	Virgin	Virgin	6.72	0	0	0
CV2	C	Virgin	Virgin	7.64	0	0	0
CV2	C	Virgin	Virgin	8.68	0	0	0
CV2	C	Virgin	Virgin	9.86	0	0	0
CV2	C	Virgin	Virgin	11.2	0	0	0
CV2	C	Virgin	Virgin	12.7	0	0	0
CV2	C	Virgin	Virgin	14.5	0	0	0
CV2	C	Virgin	Virgin	16.4	0	0	0
CV2	C	Virgin	Virgin	18.7	0	0	0
CV2	C	Virgin	Virgin	21.2	0	0	0
CV2	C	Virgin	Virgin	24.1	0	0	0
CV2	C	Virgin	Virgin	27.4	0	0	0
CV2	C	Virgin	Virgin	31.1	0.24	0.241111111	-0.001111
CV2	C	Virgin	Virgin	35.3	1.036666667	1.03	0.006667
CV2	C	Virgin	Virgin	40.1	2.54	2.524444444	0.015556
CV2	C	Virgin	Virgin	45.6	4.693333333	4.68	0.013333
CV2	C	Virgin	Virgin	51.8	7.243333333	7.24	0.003333
CV2	C	Virgin	Virgin	58.9	9.773333333	9.778888889	-0.005556
CV2	C	Virgin	Virgin	66.9	11.80333333	11.82111111	-0.017778
CV2	C	Virgin	Virgin	76	12.92333333	12.94666667	-0.023333
CV2	C	Virgin	Virgin	86.4	12.89666667	12.92111111	-0.024444
CV2	C	Virgin	Virgin	98.1	11.73333333	11.74888889	-0.015556
CV2	C	Virgin	Virgin	111	9.673333333	9.677777778	-0.004444
CV2	C	Virgin	Virgin	127	7.14	7.132222222	0.007778
CV2	C	Virgin	Virgin	144	4.603333333	4.585555556	0.017778
CV2	C	Virgin	Virgin	163	2.466666667	2.452222222	0.014444
CV2	C	Virgin	Virgin	186	0.996666667	0.986666667	0.01
CV2	C	Virgin	Virgin	211	0.226666667	0.223333333	0.003333
CV2	C	Virgin	Virgin	240	0	0	0
CV2	C	Virgin	Virgin	272	0	0	0
CV2	C	Virgin	Virgin	310	0	0	0
CV2	C	Virgin	Virgin	352	0	0	0
CV2	C	Virgin	Virgin	400	0	0	0
CV2	C	Virgin	Virgin	454	0	0	0
CV2	C	Virgin	Virgin	516	0	0	0
CV2	C	Virgin	Virgin	586	0	0	0
CV2	C	Virgin	Virgin	666	0	0	0
CV2	C	Virgin	Virgin	756	0	0	0
CV2	C	Virgin	Virgin	859	0	0	0
CV2	C	Virgin	Virgin	976	0	0	0
CV2	C	Virgin	Virgin	1110	0	0	0
CV2	C	Virgin	Virgin	1260	0	0	0
CV2	C	Virgin	Virgin	1430	0	0	0
CV2	C	Virgin	Virgin	1630	0	0	0
CV2	C	Virgin	Virgin	1850	0	0	0
CV2	C	Virgin	Virgin	2100	0	0	0
CV2	C	Virgin	Virgin	2390	0	0	0
CV2	C	Virgin	Virgin	2710	0	0	0
CV2	C	Virgin	Virgin	3080	0	0	0
CV3	C	Virgin	Virgin	0.01	0	0	0
CV3	C	Virgin	Virgin	0.0114	0	0	0
CV3	C	Virgin	Virgin	0.0129	0	0	0
CV3	C	Virgin	Virgin	0.0147	0	0	0
CV3	C	Virgin	Virgin	0.0167	0	0	0
CV3	C	Virgin	Virgin	0.0189	0	0	0
CV3	C	Virgin	Virgin	0.0215	0	0	0
CV3	C	Virgin	Virgin	0.0244	0	0	0
CV3	C	Virgin	Virgin	0.0278	0	0	0
CV3	C	Virgin	Virgin	0.0315	0	0	0
CV3	C	Virgin	Virgin	0.0358	0	0	0
CV3	C	Virgin	Virgin	0.0407	0	0	0
CV3	C	Virgin	Virgin	0.0463	0	0	0
CV3	C	Virgin	Virgin	0.0526	0	0	0
CV3	C	Virgin	Virgin	0.0597	0	0	0

CV3	C	Virgin	Virgin	0.0679	0	0	0
CV3	C	Virgin	Virgin	0.0771	0	0	0
CV3	C	Virgin	Virgin	0.0876	0	0	0
CV3	C	Virgin	Virgin	0.0995	0	0	0
CV3	C	Virgin	Virgin	0.113	0	0	0
CV3	C	Virgin	Virgin	0.128	0	0	0
CV3	C	Virgin	Virgin	0.146	0	0	0
CV3	C	Virgin	Virgin	0.166	0	0	0
CV3	C	Virgin	Virgin	0.188	0	0	0
CV3	C	Virgin	Virgin	0.214	0	0	0
CV3	C	Virgin	Virgin	0.243	0	0	0
CV3	C	Virgin	Virgin	0.276	0	0	0
CV3	C	Virgin	Virgin	0.314	0	0	0
CV3	C	Virgin	Virgin	0.357	0	0	0
CV3	C	Virgin	Virgin	0.405	0	0	0
CV3	C	Virgin	Virgin	0.46	0	0	0
CV3	C	Virgin	Virgin	0.523	0	0	0
CV3	C	Virgin	Virgin	0.594	0	0	0
CV3	C	Virgin	Virgin	0.675	0	0	0
CV3	C	Virgin	Virgin	0.767	0	0	0
CV3	C	Virgin	Virgin	0.872	0	0	0
CV3	C	Virgin	Virgin	0.991	0	0	0
CV3	C	Virgin	Virgin	1.13	0	0	0
CV3	C	Virgin	Virgin	1.28	0	0	0
CV3	C	Virgin	Virgin	1.45	0	0	0
CV3	C	Virgin	Virgin	1.65	0	0	0
CV3	C	Virgin	Virgin	1.88	0	0	0
CV3	C	Virgin	Virgin	2.13	0	0	0
CV3	C	Virgin	Virgin	2.42	0	0	0
CV3	C	Virgin	Virgin	2.75	0	0	0
CV3	C	Virgin	Virgin	3.12	0	0	0
CV3	C	Virgin	Virgin	3.55	0	0	0
CV3	C	Virgin	Virgin	4.03	0	0	0
CV3	C	Virgin	Virgin	4.58	0	0	0
CV3	C	Virgin	Virgin	5.21	0	0	0
CV3	C	Virgin	Virgin	5.92	0	0	0
CV3	C	Virgin	Virgin	6.72	0	0	0
CV3	C	Virgin	Virgin	7.64	0	0	0
CV3	C	Virgin	Virgin	8.68	0	0	0
CV3	C	Virgin	Virgin	9.86	0	0	0
CV3	C	Virgin	Virgin	11.2	0	0	0
CV3	C	Virgin	Virgin	12.7	0	0	0
CV3	C	Virgin	Virgin	14.5	0	0	0
CV3	C	Virgin	Virgin	16.4	0	0	0
CV3	C	Virgin	Virgin	18.7	0	0	0
CV3	C	Virgin	Virgin	21.2	0	0	0
CV3	C	Virgin	Virgin	24.1	0	0	0
CV3	C	Virgin	Virgin	27.4	0	0	0
CV3	C	Virgin	Virgin	31.1	0.263333333	0.241111111	0.022222
CV3	C	Virgin	Virgin	35.3	1.076666667	1.03	0.046667
CV3	C	Virgin	Virgin	40.1	2.59	2.524444444	0.065556
CV3	C	Virgin	Virgin	45.6	4.753333333	4.68	0.073333
CV3	C	Virgin	Virgin	51.8	7.303333333	7.24	0.063333
CV3	C	Virgin	Virgin	58.9	9.81	9.778888889	0.031111
CV3	C	Virgin	Virgin	66.9	11.81333333	11.82111111	-0.007778
CV3	C	Virgin	Virgin	76	12.9	12.94666667	-0.046667
CV3	C	Virgin	Virgin	86.4	12.85333333	12.92111111	-0.067778
CV3	C	Virgin	Virgin	98.1	11.67666667	11.74888889	-0.072222
CV3	C	Virgin	Virgin	111	9.616666667	9.677777778	-0.061111
CV3	C	Virgin	Virgin	127	7.096666667	7.132222222	-0.035556
CV3	C	Virgin	Virgin	144	4.57	4.585555556	-0.015556
CV3	C	Virgin	Virgin	163	2.453333333	2.452222222	0.001111
CV3	C	Virgin	Virgin	186	0.993333333	0.986666667	0.006667
CV3	C	Virgin	Virgin	211	0.226666667	0.223333333	0.003333

CV3	C	Virgin	Virgin	240	0	0	0
CV3	C	Virgin	Virgin	272	0	0	0
CV3	C	Virgin	Virgin	310	0	0	0
CV3	C	Virgin	Virgin	352	0	0	0
CV3	C	Virgin	Virgin	400	0	0	0
CV3	C	Virgin	Virgin	454	0	0	0
CV3	C	Virgin	Virgin	516	0	0	0
CV3	C	Virgin	Virgin	586	0	0	0
CV3	C	Virgin	Virgin	666	0	0	0
CV3	C	Virgin	Virgin	756	0	0	0
CV3	C	Virgin	Virgin	859	0	0	0
CV3	C	Virgin	Virgin	976	0	0	0
CV3	C	Virgin	Virgin	1110	0	0	0
CV3	C	Virgin	Virgin	1260	0	0	0
CV3	C	Virgin	Virgin	1430	0	0	0
CV3	C	Virgin	Virgin	1630	0	0	0
CV3	C	Virgin	Virgin	1850	0	0	0
CV3	C	Virgin	Virgin	2100	0	0	0
CV3	C	Virgin	Virgin	2390	0	0	0
CV3	C	Virgin	Virgin	2710	0	0	0
CV3	C	Virgin	Virgin	3080	0	0	0

APPENDIX N: Experimental Data – Single Bend Attrition Tester

This Appendix contains all the raw data and calculations used to analyse the particle attrition behaviour across all material types in the experimental programme. The data is arranged by material type.

N.1 Carbolux SK Type C

Test	Input Mass	Sieve Size	Mass retained	Mass Collected	Mass Percent of Collected	Error	Bag	Virgin PSD	Deviation	% Change	#DIV/0!	% Change of Collected	Blower	Bend	Orifice	Straights	Mass Flow Rate	Average Pre Bend Particle Velocity	Average Post Bend Particle Velocity
1	118.36	2800	0	118.27	0	0	0.09	1	0	0	#DIV/0!	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	2000	0	118.27	0	0	0.09	1	0	0	#DIV/0!	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	1400	0.07	118.27	0.059186607	0.059186607	0.09	1	0.062199576	-0.03012969	-4.844034098	-0.02547534	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	1000	3.55	118.27	3.001606494	3.001606494	0.09	1	3.882565186	-0.880956692	-22.6901198	-0.744870797	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	710	106.94	118.27	90.42022491	90.42022491	0.09	1	89.71701294	0.703211971	0.78381173	0.594581865	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	500	7.42	118.27	6.273780333	6.273780333	0.09	1	6.045843153	0.22793718	3.770147097	0.19276118	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	355	0.22	118.27	0.18601505	0.18601505	0.09	1	0.166547619	0.019467431	11.68880771	0.01646016	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	250	0.05	118.27	0.042276148	0.042276148	0.09	1	0.036449503	0.005856645	16.08106845	0.004951928	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	180	0.02	118.27	0.016910459	0.016910459	0.09	1	0.036624128	-0.019713669	-53.82699864	-0.01666836	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	125	0	118.27	0	0	0.09	1	0.020869609	-0.020869609	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	90	0	118.27	0	0	0.09	1	0.01063943	-0.01063943	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	63	0	118.27	0	0	0.09	1	0.015959145	-0.015959145	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	45	0	118.27	0	0	0.09	1	0.005319715	-0.005319715	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	118.36	2800	0	118.27	0	0	0.09	1	0	0	#DIV/0!	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	2800	0	110.09	0	0	0.09	1	0	0	#DIV/0!	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	2000	0.04	110.09	0.036333909	0.036333909	0.09	1	0.036333909	#DIV/0!	#DIV/0!	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	1400	0.07	110.09	0.06358434	0.06358434	0.09	1	0.062199576	0.001384765	2.226324709	0.001257848	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	1000	3.82	110.09	3.469888273	3.469888273	0.09	1	3.882565186	-0.412676912	-10.62897576	-0.374854131	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	710	99.39	110.09	90.28067944	90.28067944	0.09	1	89.71701294	0.563666506	0.628271593	0.512005183	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	500	6.54	110.09	5.940594059	5.940594059	0.09	1	6.045843153	-0.105249094	-1.740850548	-0.095602774	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	355	0.19	110.09	0.172586066	0.172586066	0.09	1	0.166547619	0.006038447	3.625657713	0.005485009	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	250	0.02	110.09	0.018166954	0.018166954	0.09	1	0.036449503	-0.018252548	-50.11751125	-0.016579661	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	180	0	110.09	0	0	0.09	1	0.036624128	-0.036624128	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	125	0.02	110.09	0.018166954	0.018166954	0.09	1	0.020869609	-0.002702654	-12.9501922	-0.00245495	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	90	0	110.09	0	0	0.09	1	0.01063943	-0.01063943	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	63	0	110.09	0	0	0.09	1	0.015959145	-0.015959145	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	45	0	110.09	0	0	0.09	1	0	0	#DIV/0!	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
1	110.18	2800	0	110.09	0	0	0.09	1	0.005319715	-0.005319715	-100	0	0	1.5 Short		10 12.3	0.012615394	8.650889005 N/A	8.650889005 N/A
2	109.17	2800	0	108.99	0	0	0.18	1	0	0	#DIV/0!	0	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	2000	0	108.99	0	0	0.18	1	0	0	#DIV/0!	0	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	1400	0.1	108.99	0.091751537	0.091751537	0.18	1	0.062199576	0.029551961	47.51151596	0.027114379	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	1000	3.32	108.99	3.046151023	3.046151023	0.18	1	3.882565186	-0.83644163	-21.54282343	-0.767422848	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	710	88.56	108.99	81.25516102	81.25516102	0.18	1	89.71701294	-8.461851914	-9.431713826	-7.763879176	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	500	13.93	108.99	12.78098908	12.78098908	0.18	1	6.045843153	6.735145929	111.4012679	6.179599898	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	355	2.42	108.99	2.20387191	2.20387191	0.18	1	0.166547619	2.053839572	1233.184587	1.884429372	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	250	0.27	108.99	0.247729149	0.247729149	0.18	1	0.036449503	0.211309647	580.2101387	0.193879848	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	180	0.18	108.99	0.165152766	0.165152766	0.18	1	0.036449503	0.128528638	350.9397912	0.117927001	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	125	0.11	108.99	0.100926691	0.100926691	0.18	1	0.020869609	0.080057082	383.6060499	0.073453603	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	90	0.07	108.99	0.064226076	0.064226076	0.18	1	0.01063943	0.053586646	503.6608863	0.049166571	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	63	0.03	108.99	0.027525461	0.027525461	0.18	1	0.015959145	0.011566316	72.47453895	0.010612273	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	45	0	108.99	0	0	0.18	1	0	0	#DIV/0!	0	0	2.5 Short		10 12.3	0.012672823	26.37742759 N/A	26.37742759 N/A
2	109.17	2800	0	107.88	0	0	0.06	1	0.005319715	-0.005319715	-100	0	0	3 Short		10 12.3	0.012672823	34.78615446 N/A	34.78615446 N/A
3	107.94	2800	0	107.88	0	0	0.06	1	0	0	#DIV/0!	0	0	3 Short		10 12.3	0.012672823	34.78615446 N/A	34.78615446 N/A
3	107.94	2000	0	107.88	0	0	0.06	1	0	0	#DIV/0!	0	0	3 Short		10 12.3	0.012672823	34.78615446 N/A	34.78615446 N/A
3	107.94	1400	0.04	107.88	0.037078235	0.037078235	0.06	1	0.062199576	-0.02512134	-40.38828282	-0.023286374	0	3 Short		10 12.3	0.012672823	34.78615446 N/A	34.78615446 N/A
3	107.94	1000	2.16	107.88	2.002224694	2.002224694	0.06	1	3.882565186	-1.880304091	-48.43036502	-1.742992669	0	3 Short		10 12.3	0.012672823	34.78615446 N/A	34.78615446 N/A
3	107.94	710	79.42	107.88	73.61883574	73.61883574	0.06	1	89.71701294	-16.09817719	-17.94328263	-14.92229996	0	3 Short		10 12.3	0.012672823	34.78615446 N/A	34.78615446 N/A

3	107.94	500	19.53	107.88	107.88	18.10344828	0.06	1	6.045843153	12.05760512	199.4362873	11.17868793	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	355	5.14	107.88	107.88	4.764553207	0.06	1	0.166547619	4.598005588	2760.77533	4.262148302	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	250	0.62	107.88	107.88	0.574712644	0.06	1	0.036419503	0.538293141	1478.035398	0.498973991	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	180	0.42	107.88	107.88	0.389321468	0.06	1	0.036624128	0.35269734	963.0190795	0.326934872	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	125	0.24	107.88	107.88	0.22246941	0.06	1	0.020286909	0.201599802	965.9970346	0.186874121	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	90	0.17	107.88	107.88	0.157582499	0.06	1	0.01063943	0.146943069	1381.117909	0.136209742	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	63	0.09	107.88	107.88	0.083426029	0.06	1	0.015595945	0.067466884	422.7474972	0.062538825	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	45	0.02	107.88	107.88	0.018539118	0.06	1	0	0.018539118	#DIV/0!	0.017184944	3 Short	10 12.3	0.012787672	34.78615446 N/A
3	107.94	0	0.03	107.88	107.88	0.027808876	0.06	1	0.005319715	0.022488961	422.7474972	0.020946275	3 Short	10 12.3	0.012787672	34.78615446 N/A
4	114.69	2800	0	114.69	114.69	0	0	1	0	0	#DIV/0!	0	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	2000	0.06	114.69	114.69	0.052314936	0	1	0	0.052314936	#DIV/0!	0.045614209	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	1400	0.1	114.69	114.69	0.087191556	0	1	0.062199576	0.024991984	40.18031323	0.021790901	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	1000	2.82	114.69	114.69	2.458801988	0	1	3.882565186	-1.423763198	-36.67068367	-1.241401341	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	710	87.82	114.69	114.69	76.57162787	0	1	89.71701294	-13.14538507	-14.65205388	-11.46166629	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	500	18.05	114.69	114.69	15.73807655	0	1	6.045843153	9.692233401	160.3123527	8.450809487	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	355	4.33	114.69	114.69	3.775394542	0	1	0.166547619	3.608846922	2166.855904	3.146609925	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	250	0.58	114.69	114.69	0.505711047	0	1	0.036419503	0.469291545	1288.572085	0.409182618	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	180	0.4	114.69	114.69	0.348766239	0	1	0.036624128	0.312144111	852.2854427	0.272161576	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	125	0.24	114.69	114.69	0.209259744	0	1	0.020869609	0.188900135	902.7008466	0.164260297	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	90	0.16	114.69	114.69	0.139506496	0	1	0.01063943	0.128867066	1211.221554	0.112361205	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	63	0.1	114.69	114.69	0.087191556	0	1	0.015959145	0.071232415	446.3423141	0.062108654	3 Short	20 12.3	0.094193419	31.57633668 N/A
4	114.69	45	0.03	114.69	114.69	0.026157468	0	1	0	0.026157468	#DIV/0!	0.022807104	3 Short	20 12.3	0.094193419	31.57633668 N/A
5	86.72	2800	0	86.63	86.63	0	0.09	1	0.005319715	-0.005319715	-100	0	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	2000	0.03	86.63	86.63	0.034630036	0.09	1	0	0.034630036	#DIV/0!	0	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	1400	0.07	86.63	86.63	0.080803417	0.09	1	0.062199576	0.018603841	29.90991674	0.039974646	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	1000	1.96	86.63	86.63	2.262495671	0.09	1	3.882565186	-1.620069514	-41.72678209	-1.870102175	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	710	66	86.63	86.63	76.18607873	0.09	1	89.71701294	-13.53099421	-15.08179304	-15.61932453	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	500	14.22	86.63	86.63	16.41463896	0.09	1	6.045843153	10.36879381	171.5028582	11.96905669	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	355	3.37	86.63	86.63	3.890107353	0.09	1	0.166547619	3.723559734	2235.732788	4.298233561	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	250	0.38	86.63	86.63	0.43864712	0.09	1	0.036419503	0.402227617	1104.429188	0.464305226	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	180	0.25	86.63	86.63	0.288583632	0.09	1	0.036624128	0.251959504	687.9604166	0.290845554	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	125	0.15	86.63	86.63	0.173150179	0.09	1	0.020869609	0.15228057	729.6762098	0.17578272	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	90	0.1	86.63	86.63	0.115433453	0.09	1	0.01063943	0.104794023	984.9590211	0.120967359	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	63	0.07	86.63	86.63	0.080803417	0.09	1	0.015959145	0.064844272	406.3142099	0.074851982	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	45	0.03	86.63	86.63	0.034630036	0.09	1	0	0.034630036	#DIV/0!	0.039974646	3 Short	20 12.3	0.094404294	31.14701648 N/A
5	86.72	2800	0	86.63	86.63	0	0.18	1	0.005319715	-0.005319715	-100	0	3 Short	20 12.3	0.094404294	31.14701648 N/A
6	118.96	2000	0	118.78	118.78	0	0	1	0	0	#DIV/0!	0	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	1400	0.12	118.78	118.78	0.101027109	0.18	1	0.062199576	0.038827533	62.42411306	0.032688612	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	1000	3.51	118.78	118.78	2.95042937	0.18	1	3.882565186	-0.972522449	-23.88941859	-0.780874094	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	710	99.18	118.78	118.78	83.49890554	0.18	1	89.71701294	-6.218107398	-6.930800742	-5.234978446	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	500	13.24	118.78	118.78	11.14665769	0.18	1	6.045843153	5.100814533	84.36895242	4.29433788	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	355	2.05	118.78	118.78	1.72587978	0.18	1	0.166547619	1.559332158	936.2680563	1.312790165	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	250	0.27	118.78	118.78	0.227310995	0.18	1	0.036419503	0.190891492	524.1463463	0.16071013	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	180	0.18	118.78	118.78	0.151540663	0.18	1	0.036624128	0.114916535	313.772755	0.096747378	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	125	0.11	118.78	118.78	0.092608183	0.18	1	0.020869609	0.071738574	343.7466188	0.060396173	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	90	0.07	118.78	118.78	0.05893248	0.18	1	0.01063943	0.04829305	453.9065815	0.040657561	2.5 Short	20 12.3	0.094069293	23.63959368 N/A
6	118.96	63	0.05	118.78	118.78	0.042094629	0.18	1	0.015595945	0.026135484	163.7649436	0.02200327	2.5 Short	20 12.3	0.094069293	23.63959368 N/A

6	118.96	45	0	118.78	0	0.18	1	0	0	0	#DIV/0!	0	2.5 Short	20	12.3	0.094069293	23.63959368	N/A	19.57961989
6	118.96	0	0	118.78	0	0.18	1	0.005319715	-0.005319715	-100		0	2.5 Short	20	12.3	0.094069293	23.63959368	N/A	19.57961989
7	102.94	2800	0.01	102.93	0	0.01	2	0	0	#DIV/0!		0	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	2000	0.02	102.93	0.01	0.01	2	0.013936635	0.005494046	39.42161339		0.005337653	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	1400	0.11	102.93	0.066868746	0.01	2	0.103962959	0.002905786	2.795020926		0.002820071	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	1000	4.29	102.93	4.167881084	0.01	2	4.31822787	-0.150346785	-3.4816779		-0.146067022	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	710	93.14	102.93	90.48868163	0.01	2	90.08805925	0.400623374	0.444700859		0.389218278	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	500	5.42	102.93	4.974254348	0.01	2	5.229157696	-0.254903349	-4.874654071		-0.247647283	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	355	0.19	102.93	0.18459147	0.01	2	0.185089521	-0.000498051	-0.269066497		-0.00483873	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	250	0.03	102.93	0.029146022	0.01	2	0.042592558	-0.013446537	-31.57015477		-0.013063768	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	180	0.03	102.93	0.029146022	0.01	2	0.018975507	0.010172515	53.61431189		0.009882945	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	125	0	102.93	0	0.01	2	0	0	#DIV/0!		0	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	90	0	102.93	0	0.01	2	0	0	#DIV/0!		0	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	63	0	102.93	0	0.01	2	0	0	#DIV/0!		0	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	45	0	102.93	0	0.01	2	0	0	#DIV/0!		0	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
7	102.94	0	0	102.93	0	0.01	2	0	0	#DIV/0!		0	1.5 Short	20	12.3	0.094990993	3.63977236	N/A	19.57961989
8	117.3	2800	0	117.11	0	0.19	2	0	0	#DIV/0!		0	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	2000	0	117.11	0	0.19	2	0.013936635	-0.013936635	-100		0	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	1400	0.15	117.11	0.128084707	0.19	2	0.103962959	0.024121747	23.20235162		0.020597513	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	1000	4.73	117.11	4.038937751	0.19	2	4.31822787	-0.279290119	-6.467702197		-0.238485286	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	710	93.99	117.11	80.25787721	0.19	2	90.08805925	-9.830182045	-10.91174805		-8.393972226	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	500	14.1	117.11	12.03996243	0.19	2	5.229157696	6.810804732	130.2466884		5.815732843	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	355	3.06	117.11	2.612928016	0.19	2	0.185089521	2.427838496	1311.710401		2.073126544	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	250	0.39	117.11	0.333020237	0.19	2	0.042592558	0.290427679	681.8742345		0.247995627	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	180	0.3	117.11	0.256169413	0.19	2	0.018973507	0.237195907	1250.142697		0.202541121	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	125	0.19	117.11	0.162240628	0.19	2	0	0	#DIV/0!		0.138530955	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	90	0.12	117.11	0.102467765	0.19	2	0	0	#DIV/0!		0.087497024	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	63	0.08	117.11	0.068311844	0.19	2	0	0	#DIV/0!		0.05833135	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	45	0	117.11	0	0.19	2	0	0	#DIV/0!		0	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
8	117.3	0	0	117.11	0	0.19	2	0	0	#DIV/0!		0	3 Short	30	12.3	0.266670067	28.21882419	N/A	19.57961989
9	107.53	2800	0	107.44	0	0.09	2	0	0	#DIV/0!		0	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	2000	0	107.44	0	0.09	2	0.013936635	-0.013936635	-100		0	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	1400	0.08	107.44	0.074460164	0.09	2	0.103962959	-0.029502795	-28.37817976		-0.027459787	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	1000	4.32	107.44	4.020848846	0.09	2	4.31822787	-0.297379024	-6.886598687		-0.276786135	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	710	92.46	107.44	86.05733433	0.09	2	90.08805925	-4.030724929	-4.474205529		-3.751605481	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	500	8.94	107.44	8.320923306	0.09	2	5.229157696	3.09176561	59.12549955		2.877667172	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	355	1.19	107.44	1.107594937	0.09	2	0.185089521	0.922505416	498.4103971		0.858623805	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	250	0.2	107.44	0.18615041	0.09	2	0.042592558	0.1435557851	337.0491418		0.133616764	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	180	0.11	107.44	0.102382725	0.09	2	0.018975507	0.083409219	439.6088743		0.077633301	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	125	0.07	107.44	0.065152643	0.09	2	0	0	#DIV/0!		0.060640956	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	90	0.04	107.44	0.037230082	0.09	2	0	0	#DIV/0!		0.034651975	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	63	0.03	107.44	0.027922561	0.09	2	0	0	#DIV/0!		0.025988981	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	45	0	107.44	0	0.09	2	0	0	#DIV/0!		0	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
9	107.53	0	0	107.44	0	0.09	2	0	0	#DIV/0!		0	2.5 Short	30	12.3	0.26618282	20.38489561	N/A	19.57961989
10	96.14	2800	0	96.06	0	0.08	3	0	0	#DIV/0!		0	3.5 Short	30	12.3	0.269686129	34.42704451	N/A	25.08486478
10	96.14	2000	0	96.06	0	0.08	3	0	0	#DIV/0!		0	3.5 Short	30	12.3	0.269686129	34.42704451	N/A	25.08486478
10	96.14	1400	0.05	96.06	0.052050802	0.08	3	0.07653771	-0.024486909	-31.99326015		-0.025491265	3.5 Short	30	12.3	0.269686129	34.42704451	N/A	25.08486478
10	96.14	1000	2.9	96.06	3.018946492	0.08	3	5.333527639	-2.314581148	-43.39681547		-2.409516081	3.5 Short	30	12.3	0.269686129	34.42704451	N/A	25.08486478
10	96.14	710	73.93	96.06	76.96231522	0.08	3	91.25554347	-14.29322825	-15.66286025		-14.87947975	3.5 Short	30	12.3	0.269686129	34.42704451	N/A	25.08486478

10	96.14	500	13.71	96.06	14.2732979	0.08	3	3.159891016	11.11243878	351.6715837	11.56822692	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	355	4.15	96.06	4.320216531	0.08	3	0.102895855	4.217320676	4098.630283	4.390298435	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	250	0.55	96.06	0.572558817	0.08	3	0.0935379368	0.537179449	1518.340983	0.559211418	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	180	0.34	96.06	0.353945451	0.08	3	0.036224943	0.317720508	877.076628	0.330753142	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	125	0.19	96.06	0.197793046	0.08	3	0.197793046	#DIV/0!	#DIV/0!	0.205905732	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	90	0.12	96.06	0.124921924	0.08	3	0.124921924	#DIV/0!	#DIV/0!	0.130045725	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	63	0.08	96.06	0.083281283	0.08	3	0.083281283	#DIV/0!	#DIV/0!	0.08669715	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	45	0.02	96.06	0.020820321	0.08	3	0.020820321	#DIV/0!	#DIV/0!	0.021674288	3.5 Short	30	12.3	34.42704451	25.08486478
10	96.14	0	0.02	96.06	0.020820321	0.08	3	0.020820321	#DIV/0!	#DIV/0!	0.021674288	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	2800	0	102.27	0	0.07	3	0	0	0	0	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	2000	0	102.27	0	0.07	3	0	0	0	0	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	1400	0.04	102.27	0.039112154	0.07	3	0.07653771	-0.037425556	-48.89819161	-0.036594853	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	1000	2.91	102.27	2.845409211	0.07	3	5.333527639	-2.48818428	-46.65052094	-2.432891785	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	710	78.72	102.27	76.97271927	0.07	3	91.25453437	-14.2828242	-15.65145925	-13.96580052	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	500	14.75	102.27	14.42260683	0.07	3	3.159891016	11.26271581	356.42734999	11.01277691	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	355	4.41	102.27	4.31211499	0.07	3	0.102895855	4.209219135	4090.756748	4.115790686	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	250	0.56	102.27	0.547570157	0.07	3	0.035379368	0.512190789	1447.710383	0.500822127	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	180	0.38	102.27	0.371565464	0.07	3	0.036224943	0.335340521	925.7171828	0.327897253	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	125	0.22	102.27	0.215116848	0.07	3	0	0.215116848	#DIV/0!	0.210342082	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	90	0.13	102.27	0.127114501	0.07	3	0	0.127114501	#DIV/0!	0.124293049	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	63	0.09	102.27	0.088002347	0.07	3	0	0.088002347	#DIV/0!	0.086049034	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	45	0.03	102.27	0.029334116	0.07	3	0	0.029334116	#DIV/0!	0.028683011	3.5 Short	30	12.3	34.42704451	25.08486478
10	102.34	0	0.03	102.27	0.029334116	0.07	3	0	0.029334116	#DIV/0!	0.028683011	3.5 Short	30	12.3	34.42704451	25.08486478
11	116.64	2800	0	116.5	0	0.14	3	0	0	0	0	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	2000	0.02	116.5	0.017167382	0.14	3	0	0.017167382	#DIV/0!	0.01473595	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	1400	0.08	116.5	0.08669528	0.14	3	0.07653771	-0.007868182	-10.28013831	-0.06753805	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	1000	4.47	116.5	3.836909871	0.14	3	5.333527639	-1.496617768	-28.06056084	-1.284650445	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	710	98.23	116.5	84.31759657	0.14	3	91.25453437	-6.937946901	-7.60276761	-5.955319229	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	500	10.52	116.5	9.030042918	0.14	3	3.159891016	5.870515902	185.7707077	5.038756998	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	355	2.31	116.5	1.982832618	0.14	3	0.102895855	1.879936763	1827.028661	1.613679262	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	250	0.32	116.5	0.274678112	0.14	3	0.035379368	0.239298743	676.3793544	0.205406647	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	180	0.22	116.5	0.188841202	0.14	3	0.036224943	0.152616259	421.3015853	0.131001081	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	125	0.14	116.5	0.120171674	0.14	3	0	0.120171674	#DIV/0!	0.103151651	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	90	0.1	116.5	0.08583691	0.14	3	0	0.08583691	#DIV/0!	0.073679751	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	63	0.07	116.5	0.060085837	0.14	3	0	0.060085837	#DIV/0!	0.051575826	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	45	0.02	116.5	0.017167382	0.14	3	0	0.017167382	#DIV/0!	0.01473595	3.5 Short	40	12.3	34.42704451	25.08486478
11	116.64	0	0	116.5	0	0.14	3	0	0	0	0	3.5 Short	40	12.3	34.42704451	25.08486478
12	122.01	2800	0	122.03	0	-0.02	4	0	0	0	0	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	2000	0	122.03	0	-0.02	4	0	0	0	0	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	1400	0.1	122.03	0.081947062	-0.02	4	0.066847807	0.015099256	22.587511	0.012373396	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	1000	3.17	122.03	2.597721872	-0.02	4	3.620845457	-1.02312585	-28.25648312	-0.838419721	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	710	93.92	122.03	76.96468082	-0.02	4	90.11403428	-13.14935346	-14.5919041	-10.77550886	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	500	18.35	122.03	15.03728591	-0.02	4	5.960007322	9.077278592	152.303145	7.438663133	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	355	4.89	122.03	4.007211341	-0.02	4	0.166436492	3.840774849	2307.651882	3.147402154	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	250	0.65	122.03	0.532655904	-0.02	4	0.052512435	0.480143469	914.3424221	0.393463467	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	180	0.42	122.03	0.344177661	-0.02	4	0.009658103	0.334519558	3463.615504	0.27412895	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	125	0.24	122.03	0.196672949	-0.02	4	0.009658103	0.187014846	1936.351717	0.153253172	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	90	0.15	122.03	0.122920593	-0.02	4	0	0.122920593	#DIV/0!	0.100729815	4 Short	40	12.3	33.7909701	21.71141278
12	122.01	63	0.08	122.03	0.06555765	-0.02	4	0	0.06555765	#DIV/0!	0.053725268	4 Short	40	12.3	33.7909701	21.71141278

12	122.01	45	0.03	122.03	0.024584119	-0.02	4	0	0	0.024584119	#DIV/0!	#DIV/0!	0.020145963	4	Short	40	12-3	0.866385072	33.7909701	21.71141278
12	122.01	0	0.03	122.03	0.024584119	-0.02	4	0	0	0.024584119	#DIV/0!	#DIV/0!	0.020145963	4	Short	40	12-3	0.866385072	33.7909701	21.71141278
12	81.2	2800	0	81.05	0	0.15	4	0	0	0	#DIV/0!	#DIV/0!	0	4	Short	40	12-3	0.866385072	33.7909701	21.71141278
12	81.2	2000	0.01	81.05	0.012338063	0.15	4	0	0.012338063	#DIV/0!	#DIV/0!	0.015222778	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	1400	0.07	81.05	0.08636644	0.15	4	0.066847807	0.019518634	29.19861538	#DIV/0!	0.024082213	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	1000	1.97	81.05	2.430598396	0.15	4	3.620845457	-1.190247061	-32.87207574	#DIV/0!	-1.468534314	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	710	62.09	81.05	76.6070327	0.15	4	90.11403428	-13.50700159	-14.98878803	#DIV/0!	-16.66502355	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	500	12.79	81.05	15.78038248	0.15	4	5.966007322	9.820375158	164.7711929	#DIV/0!	12.11640666	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	355	3.22	81.05	3.972856262	0.15	4	0.166436492	3.806419769	2287.010327	#DIV/0!	4.696384663	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	250	0.37	81.05	0.456508328	0.15	4	0.052512435	0.403958693	769.3337661	#DIV/0!	0.984526765	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	180	0.22	81.05	0.271437384	0.15	4	0.009658103	0.261775281	2710.462677	#DIV/0!	0.322984924	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	125	0.13	81.05	0.160394818	0.15	4	0.009658103	0.150736715	1560.727946	#DIV/0!	0.185979907	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	90	0.08	81.05	0.098704503	0.15	4	0	0.098704503	#DIV/0!	#DIV/0!	0.121782237	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	63	0.06	81.05	0.074028378	0.15	4	0	0.074028378	#DIV/0!	#DIV/0!	0.091336678	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	45	0.02	81.05	0.024676126	0.15	4	0	0.024676126	#DIV/0!	#DIV/0!	0.030445559	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
12	81.2	0	0.02	81.05	0.024676126	0.15	4	0	0.024676126	#DIV/0!	#DIV/0!	0.030445559	4	Short	40	12-3	0.866385072	33.7909701	21.71141278	
13	84.7	2800	0	84.56	0	0.14	5	0	0	0	#DIV/0!	#DIV/0!	0	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441
13	84.7	2000	0.01	84.56	0.011825922	0.14	5	0	0.011825922	#DIV/0!	#DIV/0!	0.013985244	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	1400	0.06	84.56	0.070955535	0.14	5	0.032076393	0.018879142	36.25278265	#DIV/0!	0.022226326	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	1000	0.76	84.56	2.081362346	0.14	5	3.100301349	-1.018939003	-32.86580523	#DIV/0!	-1.20498936	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	710	59.87	84.56	70.80779754	0.14	5	90.46090847	-19.65911093	-21.73216173	#DIV/0!	-23.24871207	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	500	15.75	84.56	18.62582781	0.14	5	6.157491218	12.4683366	202.4905299	#DIV/0!	14.74495813	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	355	5.13	84.56	6.06698202	0.14	5	0.16877938	5.897918823	3494.454614	#DIV/0!	6.974833045	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	250	0.71	84.56	0.839640492	0.14	5	0.039526192	0.8001143	2024.263547	#DIV/0!	0.946208964	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	180	0.54	84.56	0.638599811	0.14	5	0.012550201	0.62604961	4988.363292	#DIV/0!	0.740361412	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	125	0.35	84.56	0.41307285	0.14	5	0	0.41307285	#DIV/0!	#DIV/0!	0.489483544	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	90	0.15	84.56	0.177388336	0.14	5	0	0.177388336	#DIV/0!	#DIV/0!	0.209778662	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	63	0.12	84.56	0.141911069	0.14	5	0.008366801	0.133544269	1596.121097	#DIV/0!	0.157928416	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	45	0.06	84.56	0.070955535	0.14	5	0	0.070955535	#DIV/0!	#DIV/0!	0.083911465	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	84.7	0	0.05	84.56	0.059129612	0.14	5	0	0.059129612	#DIV/0!	#DIV/0!	0.069926221	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	2800	0	124.94	0	0.22	5	0	0	0	#DIV/0!	#DIV/0!	0	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441
13	125.16	2000	0.03	124.94	0.024011526	0.22	5	0	0.024011526	#DIV/0!	#DIV/0!	0.019218445	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	1400	0.06	124.94	0.048023051	0.22	5	0.052076393	-0.004053342	-7.78345365	#DIV/0!	-0.003244231	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	1000	1.95	124.94	1.56074916	0.22	5	3.100301349	-1.53955219	-49.65814662	#DIV/0!	-1.232233224	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	710	88.61	124.94	70.92204258	0.22	5	90.46090847	-19.53886589	-21.59923886	#DIV/0!	-15.63859924	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	500	23.74	124.94	19.00112054	0.22	5	6.157491218	12.84362392	208.5854265	#DIV/0!	10.27983778	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	355	7.7	124.94	6.16295822	0.22	5	0.16877938	5.99417884	3551.487658	#DIV/0!	4.797645942	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	250	1.09	124.94	0.872418761	0.22	5	0.039526192	0.832892569	2107.191518	#DIV/0!	0.666634039	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	180	0.75	124.94	0.600288138	0.22	5	0.012550201	0.587739338	4683.095886	#DIV/0!	0.47041613	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	125	0.49	124.94	0.39218825	0.22	5	0	0.39218825	#DIV/0!	#DIV/0!	0.313901273	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	90	0.23	124.94	0.184088362	0.22	5	0	0.184088362	#DIV/0!	#DIV/0!	0.147341414	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	63	0.17	124.94	0.136065311	0.22	5	0.008366801	0.127698511	1526.252601	#DIV/0!	0.102207868	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	45	0.07	124.94	0.056026893	0.22	5	0	0.056026893	#DIV/0!	#DIV/0!	0.044843039	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
13	125.16	0	0.05	124.94	0.040019209	0.22	5	0	0.040019209	#DIV/0!	#DIV/0!	0.032030742	4.5	Short	40	12-3	0.587599683	39.19442005	24.4448441	
14	106.76	2800	0	106.73	0	0.03	6	0	0	0	#DIV/0!	#DIV/0!	0	2	Short	10	12-3	0.012806433	18.46974844	14.2752419
14	106.76	2000	0	106.73	0	0.03	6	0.010085729	-0.010085729	-100	#DIV/0!	0	2	Short	10	12-3	0.012806433	18.46974844	14.2752419	
14	106.76	1400	0.06	106.73	0.056216621	0.03	6	0.073901933	-0.016692511	-22.89495258	#DIV/0!	-0.015639943	2	Short	10	12-3	0.012806433	18.46974844	14.2752419	
14	106.76	1000	3.79	106.73	3.551016584	0.03	6	4.968556547	-1.417539964	-28.53021698	#DIV/0!	-1.328155124	2	Short	10	12-3	0.012806433	18.46974844	14.2752419	
14	106.76	710	93.79	106.73	87.87594866	0.03	6	89.1170723	-1.241123641	-1.392688975	#DIV/0!	-1.162862964	2	Short	10	12-3	0.012806433	18.46974844	14.2752419	

14	106.76	500	8.13	106.73	0.03	7.617352197	6	5.548286138	2.069060059	37.29198545	1.938598388	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	355	0.74	106.73	0.03	0.693338833	6	0.162101374	0.531236956	327.7189706	0.497739114	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	250	0.09	106.73	0.03	0.084324932	6	0.046925134	0.037399798	79.70099473	0.035041505	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	180	0.06	106.73	0.03	0.056216621	6	0.031411702	0.024804919	78.96712928	0.023240813	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	125	0.03	106.73	0.03	0.028108311	6	0.0331796541	-0.00368823	-11.59946934	-0.003455664	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	90	0.02	106.73	0.03	0.018738874	6	0	0.018738874	#DIV/0!	0.01755277	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	63	0.02	106.73	0.03	0.018738874	6	0.010855406	0.007883468	72.62250539	0.007386365	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	45	0	106.73	0	0	6	0	0	#DIV/0!	0	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
14	106.76	0	0	106.73	0	0	6	0	0	#DIV/0!	0	2	Short	10	12.3	0.012806433	18.46974844	14.2752419
15	93.27	2800	0	93.18	0.09	0	6	89.1170723	-21.90307788	-24.57786966	-33.50620077	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	2000	0.04	93.18	0.09	0.042927667	6	0.010085729	0.032841938	325.6278171	0.035245695	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	1400	0.05	93.18	0.09	0.053659584	6	0.072909133	-0.019249549	-26.40210962	-0.020658456	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	1000	1.62	93.18	0.09	1.738570509	6	4.968556547	-3.229986039	-65.00853936	-3.466394118	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	710	62.63	93.18	0.09	67.21399442	6	89.1170723	-21.90307788	-24.57786966	-33.50620077	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	500	20.56	93.18	0.09	22.06482078	6	5.548286138	16.51653464	297.6871457	17.72540743	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	355	6.47	93.18	0.09	6.943550118	6	0.162101374	6.781448744	4183.461593	7.277794316	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	250	0.79	93.18	0.09	0.847821421	6	0.046925134	0.800892287	1706.75334	0.859515226	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	180	0.5	93.18	0.09	0.536595836	6	0.031411702	0.505184134	1608.267306	0.542159405	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	125	0.29	93.18	0.09	0.31125585	6	0.031796541	0.279429044	878.8032857	0.299880923	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	90	0.12	93.18	0.09	0.128783001	6	0	0.128783001	#DIV/0!	0.138208844	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	63	0.08	93.18	0.09	0.085855334	6	0.010855406	0.074999928	690.8993346	0.080489298	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	45	0.03	93.18	0.09	0.03219575	6	0	0.03219575	#DIV/0!	0.034552211	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
15	93.27	0	0	93.18	0	0	6	0	0	#DIV/0!	0	3.5	Short	10	12.3	0.012617165	42.84725354	29.51832037
16	109.35	2800	0	109.3	0	0	6	0	0	#DIV/0!	0	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	2000	0.03	109.3	0.05	0.027447392	6	0.010085729	0.017361664	172.1408966	0.015884413	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	1400	0.05	109.3	0.05	0.045745654	6	0.072909133	-0.027163479	-37.25662007	-0.024852222	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	1000	1.51	109.3	0.05	1.381518756	6	4.968556547	-3.587037792	-72.19476638	-3.281827806	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	710	67.42	109.3	0.05	61.68344007	6	89.1170723	-27.43363222	-30.78381226	-25.09938904	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	500	26.8	109.3	0.05	24.51967063	6	5.548286138	18.97138449	341.933377	17.35716788	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	355	9.9	109.3	0.05	9.057639524	6	0.162101374	8.89553815	5487.638941	8.138644236	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	250	1.35	109.3	0.05	1.235132662	6	0.046925134	1.188207529	2532.134561	1.087106614	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	180	0.94	109.3	0.05	0.860018298	6	0.031411702	0.828606596	2637.891431	0.758103016	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	125	0.61	109.3	0.05	0.558096981	6	0.031796541	0.526300044	1655.212891	0.481519158	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	90	0.3	109.3	0.05	0.274473925	6	0	0.274473925	#DIV/0!	0.251119785	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	63	0.22	109.3	0.05	0.201280878	6	0.010855406	0.190424272	1754.199451	0.174222756	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	45	0.09	109.3	0.05	0.082342177	6	0	0.082342177	#DIV/0!	0.075335935	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
16	109.35	0	0.08	109.3	0.05	0.073193047	6	0	0.073193047	#DIV/0!	0.066965276	4	Short	10	12.3	0.01264678	49.16666667	22.81040661
17	80.55	2800	0	80.47	0	0	6	0	0	#DIV/0!	0	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	2000	0	80.47	0.08	0.049707966	6	0.010085729	-0.010085729	-100	-0.2883207	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	1400	0.04	80.47	0.08	0.049707966	6	0.072909133	-0.023203167	-31.82203131	-0.2883207	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	1000	3.78	80.47	0.08	4.697402759	6	4.968556547	-0.271153789	-5.457395645	-0.336962581	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	710	70.88	80.47	0.08	88.08251522	6	89.1170723	-1.034557073	-1.160896612	-1.285643188	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	500	5.29	80.47	0.08	6.473878464	6	5.548286138	1.025592336	18.48484921	1.274502704	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	355	0.36	80.47	0.08	0.547371691	6	0.162101374	0.285270317	175.9826638	0.354505178	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	250	0.05	80.47	0.08	0.062134957	6	0.046925134	0.015209823	32.41295699	0.018901235	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	180	0.04	80.47	0.08	0.049707966	6	0.031411702	0.018296264	58.24664851	0.022736751	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	125	0.03	80.47	0.08	0.037280974	6	0.031796541	0.005484434	17.24852289	0.006815501	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	90	0	80.47	0	0	6	0	0	#DIV/0!	0	2	Short	20	12.3	0.094739201	15.32101895	3.145332796
17	80.55	63	0	80.47	0	0	6	0.010855406	-0.010855406	-100	-0.2883207	2	Short	20	12.3	0.094739201	15.32101895	3.145332796

17	80.55	45	0	80.47	0	0.08	6	0	0	0	#DIV/0!	0	2	Short	20	12-3	0.094739201	15.32101895	3.145332796
17	80.55	0	0	80.47	0	0.08	6	0	0	0	#DIV/0!	0	2	Short	20	12-3	0.094739201	15.32101895	3.145332796
18	111.09	2800	0	110.97	0	0.12	6	0	0	0	#DIV/0!	0	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	2000	0	110.97	0	0.12	6	0.010085729	-0.010085729	-100		0	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	1400	0.05	110.97	0.045057223	0.12	6	0.072901933	-0.02785191	-38.20085225		-0.025098594	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	1000	2.94	110.97	2.649364693	0.12	6	4.968556547	-2.319191854	-46.67737666		-2.08928876	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	710	78.77	110.97	70.9831486	0.12	6	89.1170723	-18.1339237	-20.34842846		-16.34128476	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	500	21.25	110.97	19.14931964	0.12	6	5.548286138	13.6010335	245.1393667		12.2564959	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	355	6.32	110.97	5.695232946	0.12	6	0.162101374	5.533131571	3413.377332		4.986150826	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	250	0.69	110.97	0.621789673	0.12	6	0.046925134	0.574866539	1225.06745		0.518035991	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	180	0.46	110.97	0.414526449	0.12	6	0.031411702	0.383114747	1219.656121		0.345241729	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	125	0.26	110.97	0.234297558	0.12	6	0.031796541	0.202501017	636.8649322		0.182482668	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	90	0.1	110.97	0.090114445	0.12	6	0.01085406	0.05123615	564.1074164		0.081206133	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	63	0.08	110.97	0.072091556	0.12	6	0.01085406	0.05123615	564.1074164		0.095182617	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	45	0.03	110.97	0.027034334	0.12	6	0	0.027034334	#DIV/0!		0.02436184	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
18	111.09	0	0.02	110.97	0.018022889	0.12	6	0	0.018022889	#DIV/0!		0.016241227	3.5	Short	20	12-3	0.094917283	38.47826087	29.60905349
19	97.44	2800	0	97.33	0	0.11	7	0	0	0	#DIV/0!	0	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	2000	0	97.33	0	0.11	7	0.021929825	-0.021929825	-100		0	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	1400	0.07	97.33	0.071920271	0.11	7	0.081509252	-0.09588981	-11.7642852		-0.00985203	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	1000	1.85	97.33	1.900750026	0.11	7	3.784164841	-1.883414815	-49.77095064		-1.935081491	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	710	61.9	97.33	63.59806843	0.11	7	90.20345425	-26.60538582	-29.49486363		-27.33523664	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	500	21.94	97.33	22.54186787	0.11	7	5.657832211	16.88403566	298.4188118		17.34720606	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	355	8.25	97.33	8.476317682	0.11	7	0.15973049	8.316587193	5206.637267		8.544731524	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	250	1.11	97.33	1.140050015	0.11	7	0.041303601	1.099146414	2661.139426		1.129396889	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	180	0.94	97.33	0.9657865	0.11	7	0.0317979705	0.939398795	2937.092682		0.959608338	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	125	0.6	97.33	0.616459468	0.11	7	0.018275826	0.598183641	3273.086686		0.614593282	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	90	0.29	97.33	0.297955409	0.11	7	0	0.297955409	#DIV/0!		0.306129055	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	63	0.22	97.33	0.226035138	0.11	7	0	0.226035138	#DIV/0!		0.232323835	4	Short	20	12-3	0.094585826	45.506486	32.25688753
19	97.44	45	0.09	97.33	0.09246892	0.11	7	0	0.09246892	#DIV/0!		0.095005569	4	Short	20	12-3	0.094585826	45.506486	32.25688753
20	100.44	2800	0	100.23	0	0.21	7	0	0	0	#DIV/0!	0	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	2000	0.01	100.23	0.009977053	0.21	7	0.021929825	-0.011952772	-54.50463933		-0.011925343	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	1400	0.07	100.23	0.069839369	0.21	7	0.081509252	-0.011669883	-14.31724911		-0.011643104	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	1000	2.36	100.23	2.354584456	0.21	7	3.784164841	-1.429580385	-37.7796278		-1.426299895	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	710	69.18	100.23	69.02125112	0.21	7	90.20345425	-21.18220313	-23.4826962		-21.133595886	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	500	20.02	100.23	19.97405966	0.21	7	5.657832211	14.31622745	253.0337931		14.28337569	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	355	6.57	100.23	6.554923676	0.21	7	0.15973049	6.395193186	4003.739803		6.380517995	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	250	0.86	100.23	0.858026539	0.21	7	0.041303601	0.816722938	1977.364964		0.814848786	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	180	0.56	100.23	0.558714956	0.21	7	0.031799705	0.526915251	1656.981593		0.525706127	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	125	0.32	100.23	0.319265689	0.21	7	0.018275826	0.300989862	1646.928875		0.300299174	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	90	0.14	100.23	0.139678739	0.21	7	0	0.139678739	#DIV/0!		0.139358215	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	63	0.1	100.23	0.099770528	0.21	7	0	0.099770528	#DIV/0!		0.099541582	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	45	0.04	100.23	0.039908211	0.21	7	0	0.039908211	#DIV/0!		0.039816633	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
20	100.44	0	0	100.23	0	0.21	7	0	0	0	#DIV/0!	0	4	Short	30	12-3	0.265628506	41.03522007	44.04287995
21	82.99	2800	0	82.9	0	0.09	7	0	0	0	#DIV/0!	0	4.5	Short	30	12-3	0.265509437	48.07702703	22.57104137
21	82.99	2000	0	82.9	0	0.09	7	0.021929825	-0.021929825	-100		0	4.5	Short	30	12-3	0.265509437	48.07702703	22.57104137
21	82.99	1400	0.03	82.9	0.036188179	0.09	7	0.081509252	-0.045321074	-55.60236711		-0.05466957	4.5	Short	30	12-3	0.265509437	48.07702703	22.57104137
21	82.99	1000	1.22	82.9	1.471652593	0.09	7	3.784164841	-2.312512247	-61.11024082		-2.789520202	4.5	Short	30	12-3	0.265509437	48.07702703	22.57104137
21	82.99	710	51.75	82.9	62.42460796	0.09	7	90.20345425	-27.77884629	-30.79576777		-33.50886163	4.5	Short	30	12-3	0.265509437	48.07702703	22.57104137

21	82.99	19.35	82.9	0.09	7	5.657832211	17.68350294	312.5497943	21.33117363	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	7.93	82.9	0.09	7	0.15973049	9.406011368	5888.676231	11.34621395	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	1.08	82.9	0.09	7	0.041303601	1.261470836	3054.142474	1.521677115	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	180	82.9	0.09	7	0.031739705	0.848779306	2669.142114	1.023895926	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	0.41	82.9	0.09	7	0.018275826	0.476295947	2606.152717	0.574542936	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	90	82.9	0.09	7	0	0.205066345	#DIV/0!	0.247365917	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	63	82.9	0.09	7	0	0.156881544	#DIV/0!	0.189162172	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	45	82.9	0.05	7	0	0.060313631	#DIV/0!	0.072754681	4.5 Short	30	12.3	48.07702703	22.57104137
21	82.99	0	82.9	0.05	7	0	0.060313631	#DIV/0!	0.072754681	4.5 Short	30	12.3	48.07702703	22.57104137
22	117.18	2800	0	0.14	8	0	0	#DIV/0!	0	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	2000	0.06	0.14	8	0.059883148	0.015281377	42.46814873	0.013056542	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	1400	0.11	0.14	8	0.1151278856	-0.057293894	-37.87303475	-0.048952404	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	1000	2.2	0.14	8	3.290874638	-1.411175389	-42.88146906	-1.205720599	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	710	80.31	0.14	8	90.34065638	-21.72308973	-34.0457515	-18.56039793	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	500	22.55	0.14	8	5.29079982	13.97611747	264.1588786	11.94131705	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	355	8.49	0.14	8	0.710491419	6.543438861	920.9736647	5.590771412	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	250	1.3	0.14	8	0.107091628	1.003639746	937.1785336	0.857518858	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	180	0.89	0.14	8	0.046386593	0.714037194	1539.318047	0.610079626	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	125	0.53	0.14	8	0.016034075	0.436802562	2724.214233	0.37320793	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	90	0.27	0.14	8	0.00472814	0.225917548	4733.42447	0.19302593	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	63	0.18	0.14	8	0.005636531	0.148162944	2631.379889	0.126591716	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	45	0.08	0.14	8	0	0.0683527	#DIV/0!	0.058401145	5 Short	40	12.3	42.63929324	34.24402126
22	117.18	0	0.07	0.14	8	0	0.059808612	#DIV/0!	0.051101002	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	2800	0	0.16	8	0	0	#DIV/0!	0	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	2000	0	0.16	8	0.03583148	-0.03583148	-100	0	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	1400	0.08	0.16	8	0.151278856	-0.058482197	-38.65853982	-0.067836906	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	1000	1.71	0.16	8	3.290874638	-1.307346045	-39.72640069	-1.516466819	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	710	59.44	0.16	8	90.34065638	-21.3927385	-23.68007867	-24.81468333	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	500	16.26	0.16	8	5.29079982	13.57012119	256.4852508	15.74077391	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	355	6.3	0.16	8	0.710491419	6.597245502	928.5468231	7.652529292	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	250	0.93	0.16	8	0.107091628	0.971669537	907.3253976	1.127096087	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	180	0.62	0.16	8	0.046386593	0.672787517	1450.392186	0.780405425	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	125	0.42	0.16	8	0.016034075	0.471148386	2938.419441	0.546512453	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	90	0.18	0.16	8	0.00472814	0.204019669	4274.620114	0.236654297	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	63	0.15	0.16	8	0.005630631	0.168363106	2990.128755	0.195294172	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	45	0.06	0.16	8	0	0.069597494	#DIV/0!	0.080730187	5 Short	40	12.3	42.63929324	34.24402126
22	86.37	0	0.06	0.16	8	0	0.069597494	#DIV/0!	0.080730187	5 Short	40	12.3	42.63929324	34.24402126
23	96.33	2800	0	0.13	9	0	0	#DIV/0!	0	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	2000	0	0.13	9	0	0	#DIV/0!	0	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	1400	0	0.13	9	0.006068566	-0.006068566	-100	0	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	1000	2.45	0.13	9	0.058017837	-1.51124029	-37.24084888	-1.570935853	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	710	76.89	0.13	9	92.3116282	-12.38439327	-13.41585401	-12.87358968	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	500	12.6	0.13	9	3.389948355	9.707767473	286.3691044	10.09123154	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	355	3.22	0.13	9	0.115317495	3.231875852	2802.58937	3.359538308	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	250	0.4	0.13	9	0.014852956	0.40094746	2699.445599	0.416785302	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	180	0.28	0.13	9	0.021066638	0.270993653	1350.468631	0.281698184	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	125	0.17	0.13	9	0.030099957	0.14661522	487.0944459	0.152406673	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	90	0.08	0.13	9	0	0.083160083	#DIV/0!	0.086444993	3.5 Long	10	12.3	41.68023996	22.98084329
23	96.33	63	0.06	0.13	9	0	0.062370062	#DIV/0!	0.064833745	3.5 Long	10	12.3	41.68023996	22.98084329

23	96.33	45	0.02	96.2	0.020790021	0.13	9	0	0	0.020790021	#DIV/0!	0.021611248	3.5 Long	10 12-3	41.68032996	22.98084329
23	96.33	0	0.03	96.2	0.031185031	0.13	9	0	0.031185031	#DIV/0!	0.032416872	3.5 Long	3.5 Long	10 12-3	41.68032996	22.98084329
24	117.98	2800	0	117.88	0	0.1	9	0	0	#DIV/0!	0	0	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	2000	0	117.88	0	0.1	9	0	0	#DIV/0!	0	0	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	1400	0.07	117.88	0.059382423	0.1	9	0.060068566	-0.000686143	-1.142266257	-0.000582069	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	1000	4.26	117.88	3.613844588	0.1	9	4.058017837	-0.44417325	-10.94557164	-0.376801196	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	710	104.22	117.88	88.44194435	0.1	9	92.316282	-3.899683846	-4.224477374	-3.308181071	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	500	7.75	117.88	6.574482525	0.1	9	3.389948355	3.18453417	93.94049221	2.701505065	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	355	1.2	117.88	1.017984991	0.1	9	0.115317495	0.902666896	782.7665642	0.765750675	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	250	0.16	117.88	0.135731252	0.1	9	0.014852956	0.120878296	813.8332768	0.102543516	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	180	0.11	117.88	0.093315236	0.1	9	0.020066638	0.073248598	365.026754	0.062138274	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	125	0.05	117.88	0.042416016	0.1	9	0.030099957	0.012316059	40.91719819	0.010447963	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	90	0.04	117.88	0.033932813	0.1	9	0	0.033932813	#DIV/0!	0.028785895	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	63	0.02	117.88	0.016966407	0.1	9	0	0.016966407	#DIV/0!	0.014392948	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	45	0	117.88	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
24	117.98	0	0	117.88	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	10 12-3	26.58780296	23.86140278
25	108.94	2800	0	108.84	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	2000	0	108.84	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	1400	0.04	108.84	0.036751194	0.1	9	0.060068566	-0.023317371	-38.8179259	-0.021423531	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	1000	4.81	108.84	4.41931128	0.1	9	4.058017837	0.36131291	8.90369079	0.331967375	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	710	97.9	108.84	89.94854833	0.1	9	92.316282	-2.363079869	-2.5598904	-2.171150192	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	500	5.36	108.84	4.924660051	0.1	9	3.389948355	1.534711697	45.27242118	1.410062199	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	355	0.57	108.84	0.52370452	0.1	9	0.115317495	0.408387026	354.1414303	0.375217774	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	250	0.09	108.84	0.082690187	0.1	9	0.014852956	0.067837232	456.7254686	0.062327482	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	180	0.05	108.84	0.045938993	0.1	9	0.020066638	0.025873355	128.9321847	0.023770999	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	125	0.02	108.84	0.018375597	0.1	9	0.030099957	-0.01177436	-38.95141741	-0.101077206	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	90	0	108.84	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	63	0	108.84	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	45	0	108.84	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
25	108.94	0	0	108.84	0	0.1	9	0	0	#DIV/0!	0	2.5 Long	2.5 Long	30 12-3	20.35509399	25.56987302
26	99.5	2800	0	99.45	0	0.05	9	0	0	#DIV/0!	0	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	2000	0	99.45	0	0.05	9	0	0	#DIV/0!	0	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	1400	0.06	99.45	0.060331825	0.05	9	0.060068566	0.000262359	0.438264629	0.000264715	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	1000	3.2	99.45	3.217697335	0.05	9	4.058017837	-0.840320502	-20.70765915	-0.844867825	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	710	82.37	99.45	82.82540447	0.05	9	92.316282	-9.486087724	-10.27615687	-9.538549748	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	500	10.62	99.45	10.67873303	0.05	9	3.389948355	7.288784677	215.0116732	7.329094698	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	355	2.56	99.45	2.574157868	0.05	9	0.115317495	2.458840373	2132.235336	2.472438787	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	250	0.3	99.45	0.301659125	0.05	9	0.014852956	0.286006169	1930.970337	0.288392327	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	180	0.17	99.45	0.170940171	0.05	9	0.020066638	0.150873533	751.8625294	0.151707926	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	125	0.1	99.45	0.100553042	0.05	9	0.030099957	0.070453085	234.063737	0.07084272	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	90	0.04	99.45	0.040221217	0.05	9	0	0.040221217	#DIV/0!	0.040443657	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	63	0.03	99.45	0.030165913	0.05	9	0	0.030165913	#DIV/0!	0.030332743	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	45	0	99.45	0	0.05	9	0	0	#DIV/0!	0	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	0	0	99.45	0	0.05	9	0	0	#DIV/0!	0	3.5 Long	3.5 Long	30 12-3	34.83602941	17.96835265
26	99.5	2800	0	107.25	0	0.1	10	0	0	#DIV/0!	0	3 Long	3 Long	30 12-3	27.77514261	26.85776242
27	107.35	2000	0.05	107.25	0.046620047	0.1	10	0.043153988	0.003466149	0.032064871	0.003231841	3 Long	3 Long	30 12-3	27.77514261	26.85776242
27	107.35	1400	0.31	107.25	0.289044289	0.1	10	0.28061684	0.008982605	3.207366691	0.008375389	3 Long	3 Long	30 12-3	27.77514261	26.85776242
27	107.35	1000	3.68	107.25	3.431235431	0.1	10	3.893004985	-0.465069534	-11.93616871	-0.43631267	3 Long	3 Long	30 12-3	27.77514261	26.85776242
27	107.35	710	90.43	107.25	84.31701632	0.1	10	89.04961541	-4.732595092	-5.314564325	-4.412679806	3 Long	3 Long	30 12-3	27.77514261	26.85776242

27	107.35	500	107.35	10.5	107.25	9.79020979	0.1	10	6.052506109	3.737703681	61.75464534	3.485038398	30	12-3	0.755404509	27.77514261	26.85776242
27	107.35	355	107.35	1.76	107.25	1.641025641	0.1	10	0.511135908	1.129669733	220.9165311	1.0533905113	30	12-3	0.275404509	27.77514261	26.85776242
27	107.35	250	107.35	0.25	107.25	0.233100233	0.1	10	0.113059656	0.120040577	106.1745466	0.11192504509	30	12-3	0.275404509	27.77514261	26.85776242
27	107.35	180	107.35	0.15	107.25	0.13986014	0.1	10	0.053942372	0.085917768	159.2769557	0.080109807	30	12-3	0.275404509	27.77514261	26.85776242
27	107.35	125	107.35	0.07	107.25	0.065268065	0.1	10	0	0.065268065	#DIV/0!	0.060856005	30	12-3	0.275404509	27.77514261	26.85776242
27	107.35	90	107.35	0.03	107.25	0.027972028	0.1	10	0	0.027972028	#DIV/0!	0.026081145	30	12-3	0.275404509	27.77514261	26.85776242
27	107.35	63	107.35	0.02	107.25	0.018648019	0.1	10	0	0.018648019	#DIV/0!	0.01738743	30	12-3	0.275404509	27.77514261	26.85776242
27	107.35	45	0	0	107.25	0	0.1	10	0	0	#DIV/0!	0	30	12-3	0.275404509	27.77514261	26.85776242
27	107.35	0	0	0	107.25	0	0.1	10	0	0	#DIV/0!	0	30	12-3	0.275404509	27.77514261	26.85776242
28	108.66	2800	108.66	0	108.53	0	0.13	10	0	0	#DIV/0!	0	30	12-3	0.275404509	27.77514261	26.85776242
28	108.66	2000	108.66	0.04	108.53	0.056856169	0.13	10	0.043153898	-0.006297729	-14.59365	-0.005802754	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	1400	108.66	0.29	108.53	0.267207224	0.13	10	0.280061684	-0.01285446	-4.589867452	-0.011844154	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	1000	108.66	2.81	108.53	2.589145858	0.13	10	3.896304965	-1.307159107	-33.54868571	-1.204421917	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	710	108.66	82.8	108.53	76.29276942	0.13	10	89.04961541	-12.75734599	-14.32611015	-11.75467243	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	500	108.66	16.66	108.53	15.35059431	0.13	10	6.052506109	9.298088197	153.6237722	8.567297703	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	355	108.66	4.55	108.53	4.192389201	0.13	10	0.51135908	3.68103293	719.8573903	3.391719611	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	250	108.66	0.6	108.53	0.552842532	0.13	10	0.113059656	0.439782876	388.9830305	0.405217798	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	180	108.66	0.39	108.53	0.359347646	0.13	10	0.053942372	0.305405274	566.16953	0.281401708	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	125	108.66	0.2	108.53	0.184280844	0.13	10	0	0.184280844	#DIV/0!	0.169797147	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	90	108.66	0.08	108.53	0.073712338	0.13	10	0	0.073712338	#DIV/0!	0.067918859	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	63	108.66	0.07	108.53	0.064498295	0.13	10	0	0.064498295	#DIV/0!	0.059429002	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	45	108.66	0.02	108.53	0.018428084	0.13	10	0	0.018428084	#DIV/0!	0.016979715	30	12-3	0.275738911	41.16546361	17.66268143
28	108.66	0	108.66	0.02	108.53	0.018428084	0.13	10	0	0.018428084	#DIV/0!	0.016979715	30	12-3	0.275738911	41.16546361	17.66268143
29	92.87	2800	92.87	0	92.79	0	0.08	10	0	0	#DIV/0!	0	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	2000	92.79	0	92.79	0	0.08	10	0.043153898	-0.043153898	-100	-0.046305819	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	1400	92.79	0.22	92.79	0.237094514	0.08	10	0.280061684	-0.042967169	-15.34203779	-0.046305819	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	1000	92.79	1.76	92.79	1.896756116	0.08	10	3.896304965	-1.999548849	-51.31910533	-2.154918471	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	710	92.79	65.08	92.79	70.1368682	0.08	10	89.04961541	-18.91274721	-21.23843784	-20.3823119	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	500	92.79	18.48	92.79	19.91593922	0.08	10	6.052506109	13.8634311	229.0527735	14.94665428	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	355	92.79	5.54	92.79	5.970470956	0.08	10	0.51135908	5.459115048	1067.576411	5.883301054	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	250	92.79	0.67	92.79	0.722606567	0.08	10	0.113059656	0.609000911	538.654488	0.656321706	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	180	92.79	0.45	92.79	0.484966052	0.08	10	0.063942372	0.43102368	799.04473	0.464515228	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	125	92.79	0.28	92.79	0.301756655	0.08	10	0	0.301756655	#DIV/0!	0.325203853	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	90	92.79	0.13	92.79	0.140101304	0.08	10	0	0.140101304	#DIV/0!	0.150987503	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	63	92.79	0.1	92.79	0.107770234	0.08	10	0	0.107770234	#DIV/0!	0.116444233	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	45	92.79	0.05	92.79	0.053885117	0.08	10	0	0.053885117	#DIV/0!	0.058072117	10	12-3	0.01319075	49.35363138	22.86222289
29	92.87	0	92.79	0.03	92.79	0.032333707	0.08	10	0	0.032333707	#DIV/0!	0.034848327	10	12-3	0.01319075	49.35363138	22.86222289
30	94.06	2800	93.94	0	93.94	0	0.12	10	0	0	#DIV/0!	0	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	2000	93.94	0.05	93.94	0.053225463	0.12	10	0.043153898	0.010071565	23.33871575	0.010721275	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	1400	93.94	0.27	93.94	0.287417501	0.12	10	0.280061684	0.007355817	2.626498758	0.007830335	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	1000	93.94	2.43	93.94	2.586757505	0.12	10	3.896304965	-1.30954746	-33.60998362	-1.3940254	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	710	93.94	75.99	93.94	80.89205876	0.12	10	89.04961541	-8.157556648	-9.160687119	-8.683794601	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	500	93.94	12.25	93.94	13.04023845	0.12	10	6.052506109	6.987732341	115.4518842	7.438505792	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	355	93.94	2.39	93.94	2.544177134	0.12	10	0.51135908	2.032821227	397.5354925	2.163957022	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	250	93.94	0.28	93.94	0.298062593	0.12	10	0.113059656	0.185002937	163.630268	0.19699734	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	180	93.94	0.14	93.94	0.149031297	0.12	10	0.053942372	0.095088925	176.2787233	0.101232041	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	125	93.94	0.08	93.94	0.085160741	0.12	10	0	0.085160741	#DIV/0!	0.090654397	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	90	93.94	0.03	93.94	0.031935278	0.12	10	0	0.031935278	#DIV/0!	0.033995399	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	63	93.94	0.03	93.94	0.031935278	0.12	10	0	0.031935278	#DIV/0!	0.033995399	10	12-3	0.013068315	34.7505042	29.29099742

30	94.06	45	0	93.94	0	0.12	10	0	0	#DIV/0!	0	3	Long	10	12-3	0.013068315	34.7505042	29.29099742
30	94.06	0	0	93.94	0	0.12	10	0	0	#DIV/0!	0	3	Long	10	12-3	0.013068315	34.7505042	29.29099742
31	83.7	2800	0	83.65	0	0.05	11	0	0	#DIV/0!	0	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	2000	0	83.65	0	0.05	11	0	0	#DIV/0!	0	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	1000	0.04	83.65	0.04781829	0.05	11	0.024570348	0.023247942	94.61788023	0.027791922	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	1000	2.42	83.65	2.893006575	0.05	11	2.637977432	0.255028143	9.667601179	0.304876441	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	710	68.4	83.65	81.76927675	0.05	11	89.24471824	-7.475441492	-8.376340515	-8.936570821	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	500	10.56	83.65	12.62402869	0.05	11	7.685971947	4.938056744	64.24765506	5.903235797	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	355	1.7	83.65	2.032277346	0.05	11	0.273775052	1.758502294	642.3164853	2.102214338	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	250	0.21	83.65	0.251046025	0.05	11	0.064481245	0.18686478	291.1516931	0.223388959	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	180	0.15	83.65	0.179318589	0.05	11	0.041339605	0.137978984	333.76948	0.164947979	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	125	0.09	83.65	0.107591154	0.05	11	0.027466131	0.080125023	291.7230044	0.095786604	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	90	0.04	83.65	0.04781829	0.05	11	0.04781829	#DIV/0!	#DIV/0!	0.057164723	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	63	0.03	83.65	0.035863718	0.05	11	0.035863718	#DIV/0!	#DIV/0!	0.042873542	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	45	0.01	83.65	0.011954573	0.05	11	0.011954573	#DIV/0!	#DIV/0!	0.014291181	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
31	83.7	0	0	83.65	0	0.05	11	0	0	#DIV/0!	0	3	Long	20	12-3	0.093605124	31.64993783	30.22294364
32	114.53	2800	0	114.47	0	0.06	11	0	0	#DIV/0!	0	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	2000	0	114.47	0	0.06	11	0	0	#DIV/0!	0	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	1400	0	114.47	0.05241548	0.06	11	0.024570348	0.027845132	113.3281954	0.024325266	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	1000	2.58	114.47	2.253865642	0.06	11	2.637977432	-0.384111791	-14.56084446	-0.335556732	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	710	87.69	114.47	76.60522408	0.06	11	89.24471824	-12.63949416	-14.16273636	-11.04175257	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	500	18.46	114.47	16.12649603	0.06	11	7.685971947	8.440524079	109.8172637	7.375668689	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	355	4.34	114.47	3.791386389	0.06	11	0.273775052	3.517611337	1284.854594	3.072954478	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	250	0.55	114.47	0.480475234	0.06	11	0.064481245	0.416293989	648.6224929	0.363670821	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	180	0.36	114.47	0.31449288	0.06	11	0.041339605	0.273153275	660.7544404	0.238624334	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	125	0.23	114.47	0.200926007	0.06	11	0.027466131	0.173459876	631.5409901	0.151533044	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	90	0.09	114.47	0.07862322	0.06	11	0	0.07862322	#DIV/0!	0.068684564	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	63	0.06	114.47	0.05241548	0.06	11	0	0.05241548	#DIV/0!	0.045789709	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	45	0.01	114.47	0.008735913	0.06	11	0	0.008735913	#DIV/0!	0.007631618	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
32	114.53	0	0.04	114.47	0.034943653	0.06	11	0	0.034943653	#DIV/0!	0.030526473	3	Long	20	12-3	0.094238561	39.33333333	29.47079347
33	86.32	2800	0	86.21	0	0.11	11	0	0	#DIV/0!	0	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	2000	0	86.21	0	0.11	11	0	0	#DIV/0!	0	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	1400	0.03	86.21	0.034798747	0.11	11	0.024570348	0.010228399	41.62903678	0.011864516	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	1000	1.82	86.21	2.111124	0.11	11	2.637977432	-0.526853433	-19.97187036	-0.611127982	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	710	61.31	86.21	71.11703979	0.11	11	89.24471824	-18.12767845	-20.31232639	-21.02735002	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	500	16.82	86.21	19.51049762	0.11	11	7.685971947	11.82452568	153.8455482	13.71595601	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	355	4.79	86.21	5.556199977	0.11	11	0.273775052	5.282424924	1929.476564	6.127392326	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	250	0.59	86.21	0.684375362	0.11	11	0.064481245	0.620194118	966.3167506	0.719999278	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	180	0.4	86.21	0.463983297	0.11	11	0.041339605	0.422643692	1022.369934	0.490249033	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	125	0.23	86.21	0.266790396	0.11	11	0.027466131	0.239324265	871.3431984	0.277606153	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	90	0.1	86.21	0.115995824	0.11	11	0	0.115995824	#DIV/0!	0.134503912	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	63	0.07	86.21	0.081197077	0.11	11	0	0.081197077	#DIV/0!	0.094185219	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	45	0.03	86.21	0.034798747	0.11	11	0	0.034798747	#DIV/0!	0.040365094	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
33	86.32	0	0.02	86.21	0.023199165	0.11	11	0	0.023199165	#DIV/0!	0.026910062	4	Long	20	12-3	0.0939789	45.55182186	24.69507564
34	97.82	2800	0	97.75	0	0.07	11	0	0	#DIV/0!	0	2.5	Long	20	12-3	0.094285864	23.96846236	26.76062761
34	97.82	2000	0	97.75	0	0.07	11	0	0	#DIV/0!	0	2.5	Long	20	12-3	0.094285864	23.96846236	26.76062761
34	97.82	1400	0.04	97.75	0.040920716	0.07	11	0.024570348	0.016350368	66.54512206	0.016726719	2.5	Long	20	12-3	0.094285864	23.96846236	26.76062761
34	97.82	1000	2.88	97.75	2.946291956	0.07	11	2.637977432	0.308314128	11.68751953	0.094285864	2.5	Long	20	12-3	0.094285864	23.96846236	26.76062761
34	97.82	710	84.02	97.75	85.95396419	0.07	11	89.24471824	-3.290754046	-3.687337593	-3.36650303	2.5	Long	20	12-3	0.094285864	23.96846236	26.76062761

34	97.82	97.82	500	97.75	97.75	9.5	0.07	11	7.685971947	2.03269813	26.44685857	2.079486578	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	355	97.75	97.75	0.98	0.07	11	0.273775052	0.728782492	266.1975539	0.745557537	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	250	97.75	97.75	0.16	0.07	11	0.064181245	0.09950162	155.0322377	0.101791938	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	180	97.75	97.75	0.08	0.07	11	0.041339605	0.040501827	97.97342608	0.041434094	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	125	97.75	97.75	0.05	0.07	11	0.027466131	0.023684764	86.23261901	0.024229586	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	90	97.75	97.75	0.02	0.07	11	0	0.020460358	#DIV/0!	0.020931313	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	63	97.75	97.75	0.02	0.07	11	0	0.020460358	#DIV/0!	0.020931313	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	45	97.75	97.75	0	0.07	11	0	0	#DIV/0!	0	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
34	97.82	97.75	0	97.75	97.75	0	0.07	11	0	0	#DIV/0!	0	2.5 Long	20 12-3	0.094285864	23.96846236	26.76062761
35	116.54	116.4	2800	116.4	116.4	0	0.14	12	0	0	#DIV/0!	0	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	2000	116.4	116.4	0.05	0.14	12	0	0.042955326	#DIV/0!	0.036903201	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	1400	116.4	116.4	0.11	0.14	12	0.095241274	-0.000739556	-0.776507779	-0.00635357	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	1000	116.4	116.4	3.7	0.14	12	3.291743147	-0.113048989	-3.43431987	-0.097121125	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	710	116.4	116.4	104.12	0.14	12	90.18011036	-0.72938539	-0.809422983	-0.627094965	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	500	116.4	116.4	7.86	0.14	12	6.137485843	0.615091477	10.02188018	0.528429104	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	355	116.4	116.4	0.47	0.14	12	0.238103185	0.165676883	69.58196852	0.142334092	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	250	116.4	116.4	0.06	0.14	12	0.04290143	0.008644962	20.15075463	0.007426943	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	180	116.4	116.4	0.03	0.14	12	0.014414761	0.011358435	78.79725086	0.009758106	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	125	116.4	116.4	0	0.14	12	0	0	#DIV/0!	0	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	90	116.4	116.4	0	0.14	12	0	0	#DIV/0!	0	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	63	116.4	116.4	0	0.14	12	0	0	#DIV/0!	0	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	45	116.4	116.4	0	0.14	12	0	0	#DIV/0!	0	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
35	116.54	116.4	2800	116.4	116.4	0	0.11	12	0	0	#DIV/0!	0	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
36	96.98	96.87	2800	96.87	96.87	0	0.14	12	0	0	#DIV/0!	0	2 Long	20 12-3	0.095704042	16.21360837	28.87949325
36	96.98	96.87	2000	96.87	96.87	0.04	0.11	12	0.041292454	#DIV/0!	#DIV/0!	0.042626669	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	1400	96.87	96.87	0.13	0.11	12	0.095241274	0.038959201	40.90579542	0.040218025	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	1000	96.87	96.87	3.23113451	0.11	12	3.291743147	-0.060608637	-1.841232265	-0.062566983	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	710	96.87	96.87	87.31	0.11	12	90.18011036	-0.04900682	-0.054343268	-0.050590296	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	500	96.87	96.87	6.03	0.11	12	6.137485843	0.087351568	1.423246759	0.090174015	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	355	96.87	96.87	0.23	0.11	12	0.238103185	-0.000671576	-0.28205247	-0.000693275	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	250	96.87	96.87	0	0.11	12	0.04290143	-0.04290143	-100	0	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	180	96.87	96.87	0	0.11	12	0.014414761	-0.014414761	-100	0	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	125	96.87	96.87	0	0.11	12	0	0	#DIV/0!	0	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	90	96.87	96.87	0	0.11	12	0	0	#DIV/0!	0	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	63	96.87	96.87	0	0.11	12	0	0	#DIV/0!	0	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	45	96.87	96.87	0	0.11	12	0	0	#DIV/0!	0	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
36	96.98	96.87	0	96.87	96.87	0	0.11	12	0	0	#DIV/0!	0	1.5 Long	10 12-3	0.012870572	8.354847306	6.453712795
37	107.53	107.42	2800	107.42	107.42	0	0.11	12	0	0	#DIV/0!	0	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	2000	107.42	107.42	0	0.11	12	0	0	#DIV/0!	0	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	1400	107.42	107.42	0.15	0.11	12	0.095241274	0.044397527	46.61584724	0.041330783	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	1000	107.42	107.42	3.5	0.11	12	3.291743147	-0.03504458	-1.017833297	-0.031190149	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	710	107.42	107.42	95.67	0.11	12	90.18011036	-1.118483103	-1.240276928	-1.041224263	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	500	107.42	107.42	7.51	0.11	12	6.137485843	0.853765459	15.91068835	0.794790038	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	355	107.42	107.42	0.49	0.11	12	0.238103185	0.218050231	91.5780404	0.202888486	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	250	107.42	107.42	0.05	0.11	12	0.04290143	0.003644837	8.495840616	0.00393071	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	180	107.42	107.42	0.03	0.11	12	0.014414761	0.013512999	93.744418172	0.012579594	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	125	107.42	107.42	0.02	0.11	12	0	0	0.018618507	#DIV/0!	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	90	107.42	107.42	0	0.11	12	0	0	#DIV/0!	0	2 Long	10 12-3	0.012780572	18.30321098	19.60794111
37	107.53	107.42	63	107.42	107.42	0	0.11	12	0	0	#DIV/0!	0	2 Long	10 12-3	0.012780572	18.30321098	19.60794111

37	107.53	45	0	107.42	0	0	0	0	0	0	0	0	2	Long	10	12-3	0.012780572	18.30321098	19.60794111
37	107.53	0	0	107.42	0	0	0	0	0	0	0	0	2	Long	10	12-3	0.012780572	18.30321098	19.60794111
38	105.3	2800	0	105.2	0	0	0	0	0	0	0	0	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	2000	0.02	105.2	0.019011407	0.019011407	0.019011407	0.019011407	0.019011407	0.019011407	0.019011407	0.019011407	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	1400	0.14	105.2	0.133079848	0.133079848	0.133079848	0.133079848	0.133079848	0.133079848	0.133079848	0.133079848	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	1000	2.04	105.2	1.999163498	1.999163498	1.999163498	1.999163498	1.999163498	1.999163498	1.999163498	1.999163498	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	710	74.34	105.2	70.66539924	70.66539924	70.66539924	70.66539924	70.66539924	70.66539924	70.66539924	70.66539924	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	500	20.16	105.2	19.1634981	19.1634981	19.1634981	19.1634981	19.1634981	19.1634981	19.1634981	19.1634981	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	355	6.44	105.2	6.121673004	6.121673004	6.121673004	6.121673004	6.121673004	6.121673004	6.121673004	6.121673004	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	250	0.8	105.2	0.760456274	0.760456274	0.760456274	0.760456274	0.760456274	0.760456274	0.760456274	0.760456274	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	180	0.55	105.2	0.522813688	0.522813688	0.522813688	0.522813688	0.522813688	0.522813688	0.522813688	0.522813688	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	125	0.35	105.2	0.33269962	0.33269962	0.33269962	0.33269962	0.33269962	0.33269962	0.33269962	0.33269962	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	90	0.16	105.2	0.152091255	0.152091255	0.152091255	0.152091255	0.152091255	0.152091255	0.152091255	0.152091255	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	63	0.12	105.2	0.114068441	0.114068441	0.114068441	0.114068441	0.114068441	0.114068441	0.114068441	0.114068441	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	45	0.05	105.2	0.047528517	0.047528517	0.047528517	0.047528517	0.047528517	0.047528517	0.047528517	0.047528517	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
38	105.3	0	0.03	105.2	0.02851711	0.02851711	0.02851711	0.02851711	0.02851711	0.02851711	0.02851711	0.02851711	4.5	Long	30	12-3	0.271888911	48.55762012	28.13148763
39	88.93	2800	0	91.11	0	0	0	0	0	0	0	0	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	2000	0.04	91.11	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	1400	0.17	91.11	0.186587641	0.186587641	0.186587641	0.186587641	0.186587641	0.186587641	0.186587641	0.186587641	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	1000	2.45	91.11	2.689057184	2.689057184	2.689057184	2.689057184	2.689057184	2.689057184	2.689057184	2.689057184	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	710	75.63	91.11	83.0095489	83.0095489	83.0095489	83.0095489	83.0095489	83.0095489	83.0095489	83.0095489	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	500	10.32	91.11	11.3269674	11.3269674	11.3269674	11.3269674	11.3269674	11.3269674	11.3269674	11.3269674	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	355	1.87	91.11	2.052464054	2.052464054	2.052464054	2.052464054	2.052464054	2.052464054	2.052464054	2.052464054	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	250	0.27	91.11	0.296345077	0.296345077	0.296345077	0.296345077	0.296345077	0.296345077	0.296345077	0.296345077	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	180	0.16	91.11	0.175611898	0.175611898	0.175611898	0.175611898	0.175611898	0.175611898	0.175611898	0.175611898	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	125	0.1	91.11	0.109757436	0.109757436	0.109757436	0.109757436	0.109757436	0.109757436	0.109757436	0.109757436	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	90	0.04	91.11	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	63	0.04	91.11	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	0.043902974	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	88.93	45	0.02	91.11	0.021951487	0.021951487	0.021951487	0.021951487	0.021951487	0.021951487	0.021951487	0.021951487	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	2800	0	80.25	0	0	0	0	0	0	0	0	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	2000	0	80.25	0	0	0	0	0	0	0	0	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	1400	0.16	80.25	0.199376947	0.199376947	0.199376947	0.199376947	0.199376947	0.199376947	0.199376947	0.199376947	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	1000	1.71	80.25	2.130841121	2.130841121	2.130841121	2.130841121	2.130841121	2.130841121	2.130841121	2.130841121	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	710	66.33	80.25	82.65420561	82.65420561	82.65420561	82.65420561	82.65420561	82.65420561	82.65420561	82.65420561	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	500	9.92	80.25	12.36137072	12.36137072	12.36137072	12.36137072	12.36137072	12.36137072	12.36137072	12.36137072	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	355	1.67	80.25	2.080996885	2.080996885	2.080996885	2.080996885	2.080996885	2.080996885	2.080996885	2.080996885	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	250	0.2	80.25	0.249221184	0.249221184	0.249221184	0.249221184	0.249221184	0.249221184	0.249221184	0.249221184	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	180	0.13	80.25	0.161963769	0.161963769	0.161963769	0.161963769	0.161963769	0.161963769	0.161963769	0.161963769	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	125	0.07	80.25	0.087227414	0.087227414	0.087227414	0.087227414	0.087227414	0.087227414	0.087227414	0.087227414	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	90	0.04	80.25	0.049844237	0.049844237	0.049844237	0.049844237	0.049844237	0.049844237	0.049844237	0.049844237	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	63	0.02	80.25	0.024922118	0.024922118	0.024922118	0.024922118	0.024922118	0.024922118	0.024922118	0.024922118	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	45	0	80.25	0	0	0	0	0	0	0	0	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
39	80.37	0	0	80.25	0	0	0	0	0	0	0	0	3.5	Long	40	12-3	0.60198356	31.20343404	37.99458398
40	91.56	2800	0	93.46	0	0	0	0	0	0	0	0	4	Long	40	12-3	0.599550806	37.69115959	46.4982055
40	91.56	2000	0	93.46	0	0	0	0	0	0	0	0	4	Long	40	12-3	0.599550806	37.69115959	46.4982055
40	91.56	1400	0.04	93.46	0.042799058	0.042799058	0.042799058	0.042799058	0.042799058	0.042799058	0.042799058	0.042799058	4	Long	40	12-3	0.599550806	37.69115959	46.4982055
40	91.56	1000	2.23	93.46	2.386047507	2.386047507	2.386047507	2.386047507	2.386047507	2.386047507	2.386047507	2.386047507	4	Long	40	12-3	0.599550806	37.69115959	46.4982055
40	91.56	710	75.15	93.46	80.40873101	80.40873101	80.40873101	80.40873101	80.40873101	80.40873101	80.40873101	80.40873101	4	Long	40	12-3	0.599550806	37.69115959	46.4982055

40	93.56	500	12.42	93.46	13.28910764	0.1	14	5.628770085	7.660337555	136.0925645	4	Long	37.69115959	46.4982055	
40	93.56	355	2.8	93.46	2.995934089	0.1	14	0.207910708	2.788023382	1340.9701521	4	Long	37.69115959	46.4982055	
40	93.56	250	0.34	93.46	0.363791997	0.1	14	0.023761249	0.340030747	1431.030594	4	Long	37.69115959	46.4982055	
40	93.56	180	0.24	93.46	0.256794351	0.1	14	0.018920978	0.237873372	1257.193835	4	Long	37.69115959	46.4982055	
40	93.56	125	0.13	93.46	0.13909694	0	14	0	0.13909694	#DIV/0!	4	Long	37.69115959	46.4982055	
40	93.56	90	0.05	93.46	0.053498823	0.1	14	0.004620218	0.048878605	1057.928526	4	Long	37.69115959	46.4982055	
40	93.56	63	0.04	93.46	0.042799058	0.1	14	0	0.042799058	#DIV/0!	4	Long	37.69115959	46.4982055	
40	93.56	45	0.02	93.46	0.021399529	0.1	14	0	0.021399529	#DIV/0!	4	Long	37.69115959	46.4982055	
40	93.56	0	0	93.46	0	0.1	14	0	0	#DIV/0!	0	4	Long	37.69115959	46.4982055
40	89.04	2800	0	88.89	0	0.15	14	0	0	#DIV/0!	0	4	Long	37.69115959	46.4982055
40	89.04	2000	0	88.89	0	0.15	14	0.014520813	-0.014520813	-100	4	Long	37.69115959	46.4982055	
40	89.04	1400	0.04	88.89	0.044099438	0.15	14	0.080524184	-0.035524747	-44.11686624	4	Long	37.69115959	46.4982055	
40	89.04	1000	2.12	88.89	2.384970188	0.15	14	3.859219406	-1.47424218	-38.20071012	4	Long	37.69115959	46.4982055	
40	89.04	710	70.76	88.89	79.00400495	0.15	14	90.16173236	-10.55774741	-11.70978506	4	Long	37.69115959	46.4982055	
40	89.04	500	12.4	88.89	13.94982563	0.15	14	5.628770085	8.321055543	147.8307946	4	Long	37.69115959	46.4982055	
40	89.04	355	2.74	88.89	3.082461469	0.15	14	0.207910708	2.874550761	1382.599089	4	Long	37.69115959	46.4982055	
40	89.04	250	0.34	88.89	0.382495219	0.15	14	0.023761249	0.358733969	1509.743721	4	Long	37.69115959	46.4982055	
40	89.04	180	0.22	88.89	0.247496906	0.15	14	0.018920978	0.228575928	1208.05555	4	Long	37.69115959	46.4982055	
40	89.04	125	0.14	88.89	0.157498031	0.15	14	0	0.157498031	#DIV/0!	4	Long	37.69115959	46.4982055	
40	89.04	90	0.07	88.89	0.078749016	0.15	14	0.004620218	0.074128798	1604.443694	4	Long	37.69115959	46.4982055	
40	89.04	63	0.04	88.89	0.044999438	0.15	14	0	0.044999438	#DIV/0!	4	Long	37.69115959	46.4982055	
40	89.04	45	0.02	88.89	0.022499719	0.15	14	0	0.022499719	#DIV/0!	4	Long	37.69115959	46.4982055	
40	89.04	0	0	88.89	0	0.15	14	0	0	#DIV/0!	0	4	Long	37.69115959	46.4982055
40	89.04	2800	0	85.52	0	0.1	15	0	0	#DIV/0!	0	4.5	Long	0.602841284	31.7673483
40	85.62	2000	0.01	85.52	0.011693171	0.1	15	0.014176354	-0.002483183	-17.51637044	4.5	Long	0.602841284	31.7673483	
40	85.62	1400	0.2	85.52	0.233863424	0.1	15	0.23555267	-0.001689193	-0.717119368	4.5	Long	0.602841284	31.7673483	
40	85.62	1000	1.91	85.52	2.233395697	0.1	15	3.1803385571	-0.946939874	-29.77484146	4.5	Long	0.602841284	31.7673483	
40	85.62	710	63.83	85.52	74.63751169	0.1	15	89.67851282	-15.04100112	-16.77213487	4.5	Long	0.602841284	31.7673483	
40	85.62	500	14.27	85.52	16.68615529	0.1	15	6.351125692	0.33502959	162.7275242	4.5	Long	0.602841284	31.7673483	
40	85.62	355	4.05	85.52	4.735734331	0.1	15	0.456568907	4.279165424	937.2441612	4.5	Long	0.602841284	31.7673483	
40	85.62	250	0.51	85.52	0.596351731	0.1	15	0.06955169	0.526800041	757.4232488	4.5	Long	0.602841284	31.7673483	
40	85.62	180	0.33	85.52	0.385874649	0.1	15	0.014176354	0.371698295	2621.959775	4.5	Long	0.602841284	31.7673483	
40	85.62	125	0.2	85.52	0.233863424	0.1	15	0	0.233863424	#DIV/0!	4.5	Long	0.602841284	31.7673483	
40	85.62	90	0.09	85.52	0.105238541	0.1	15	0	0.105238541	#DIV/0!	4.5	Long	0.602841284	31.7673483	
40	85.62	63	0.07	85.52	0.081852198	0.1	15	0	0.081852198	#DIV/0!	4.5	Long	0.602841284	31.7673483	
40	85.62	45	0.03	85.52	0.035079514	0.1	15	0	0.035079514	#DIV/0!	4.5	Long	0.602841284	31.7673483	
40	85.62	0	0.02	85.52	0.023386342	0.1	15	0	0.023386342	#DIV/0!	4.5	Long	0.602841284	31.7673483	
40	80.45	2800	0	80.37	0	0.08	15	0	0	#DIV/0!	0	4.5	Long	0.602841284	31.7673483
40	80.45	2000	0.02	80.37	0.024884907	0.08	15	0.014176354	0.010708553	75.53813612	4.5	Long	0.602841284	31.7673483	
40	80.45	1400	0.22	80.37	0.27373398	0.08	15	0.23355267	0.038181363	16.20927145	4.5	Long	0.602841284	31.7673483	
40	80.45	1000	1.9	80.37	2.364066194	0.08	15	3.1803385571	-0.816269377	-25.66613991	4.5	Long	0.602841284	31.7673483	
40	80.45	710	60.06	80.37	74.72937663	0.08	15	89.67851282	-14.94913618	-16.6696968	4.5	Long	0.602841284	31.7673483	
40	80.45	500	13.3	80.37	16.54846436	0.08	15	6.351125692	0.197373287	160.5595317	4.5	Long	0.602841284	31.7673483	
40	80.45	355	3.75	80.37	4.665920119	0.08	15	0.456568907	4.209351212	921.9531042	4.5	Long	0.602841284	31.7673483	
40	80.45	250	0.48	80.37	0.597237775	0.08	15	0.06955169	0.527686086	758.6962858	4.5	Long	0.602841284	31.7673483	
40	80.45	180	0.3	80.37	0.3727361	0.08	15	0.014176354	0.359097256	2533.072042	4.5	Long	0.602841284	31.7673483	
40	80.45	125	0.18	80.37	0.223964166	0.08	15	0	0.223964166	#DIV/0!	4.5	Long	0.602841284	31.7673483	
40	80.45	90	0.07	80.37	0.087097176	0.08	15	0	0.087097176	#DIV/0!	4.5	Long	0.602841284	31.7673483	
40	80.45	63	0.06	80.37	0.074654722	0.08	15	0	0.074654722	#DIV/0!	4.5	Long	0.602841284	31.7673483	

41	80.45	45	0.02	80.37	0.024884907	0.08	15	0	0.0024884907	#DIV/0!	0.030962931	4.5 Long	40 12-3	0.602841284	43.46286448	31.7673483
41	80.45	0	0.01	80.37	0.012442454	0.08	15	0	0.012442454	#DIV/0!	0.015481465	4.5 Long	40 12-3	0.602841284	43.46286448	31.7673483
42	84.59	2800	0	84.52	0	0.07	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	2000	0	84.52	0	0.07	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	1400	0.09	84.52	0.106483673	0.07	16	0.008910507	0.007573166	7.656563896	0.008960206	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	1000	2.4	84.52	2.8395646	0.07	16	2.8165824	0.0229822	0.815960098	0.027191434	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	710	73.76	84.52	87.26928538	0.07	16	90.2660181	-2.996732722	-3.319890237	-3.545590064	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	500	7.31	84.52	8.648840511	0.07	16	6.517195015	2.131645496	32.70802073	2.522060455	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	355	0.71	84.52	0.840037861	0.07	16	0.244685152	0.595352709	243.3137868	0.704939269	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	250	0.11	84.52	0.130146711	0.07	16	0.037739219	0.092407492	244.8579903	0.109332102	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	180	0.07	84.52	0.082820634	0.07	16	0.009744689	0.073075945	749.9053478	0.086459944	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	125	0.05	84.52	0.059157596	0.07	16	0.00912492	0.050032676	548.3080928	0.059196256	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	90	0	84.52	0	0.07	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	63	0.02	84.52	0.023663038	0.07	16	0	0.023663038	#DIV/0!	0.027996969	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	45	0	84.52	0	0.07	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	84.59	0	0	84.52	0	0.07	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	2800	0	83.47	0	0.09	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	2000	0.03	83.47	0.035941057	0.09	16	0	0.035941057	#DIV/0!	0.043058652	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	1500	0.13	83.47	0.155744579	0.09	16	0.093739219	0.11800536	312.6862841	0.141374578	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	1000	2.13	83.47	2.551815023	0.09	16	2.8165824	-0.264767377	-9.400306447	-0.317206643	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	710	72.31	83.47	86.6292692	0.09	16	90.2660181	-3.636091179	-4.028194946	-4.356165303	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	500	7.82	83.47	9.368635438	0.09	16	6.517195015	2.851440423	43.75257172	3.416126061	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	355	0.77	83.47	0.92487121	0.09	16	0.244685152	0.677801969	277.0098487	0.812030633	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	250	0.13	83.47	0.155744579	0.09	16	0.093739219	0.11800536	312.6862841	0.141374578	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	180	0.08	83.47	0.095842818	0.09	16	0.009744689	0.086098129	883.538996	0.103148591	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	125	0.04	83.47	0.047921409	0.09	16	0.00912492	0.038796489	425.17072	0.04647956	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	90	0.03	83.47	0.035941057	0.09	16	0	0.035941057	#DIV/0!	0.043058652	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	63	0	83.47	0	0.09	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	45	0	83.47	0	0.09	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
42	83.56	0	0	83.47	0	0.09	16	0	0	#DIV/0!	0	3 Long	40 12-3	0.598843021	23.52198054	25.58196219
99	96.89	2800	0	96.88	0	0.01	38	0	0	#DIV/0!	0	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	2000	0.03	96.88	0.030966144	0.01	38	0.02557094	0.005395204	21.09896677	0.005568955	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	1400	0.27	96.88	0.278695293	0.01	38	0.243634604	0.035066689	14.39068509	0.036189811	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	1000	3.85	96.88	3.973988439	0.01	38	3.092428727	0.881559712	28.50703412	0.909500157	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	710	86.8	96.88	89.59537572	0.01	38	90.03916126	-0.443785535	-0.492880574	-0.458077555	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	500	5.57	96.88	5.749380677	0.01	38	6.167102418	-0.41721741	-6.773387444	-0.431174382	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	355	0.28	96.88	0.289017341	0.01	38	0.335500611	-0.04648327	-13.85489878	-0.047980254	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	250	0.06	96.88	0.061932287	0.01	38	0.056114035	0.005818252	10.36662198	0.006005628	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	180	0	96.88	0	0.01	38	0.030543096	-0.030543096	-100	0	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	125	0	96.88	0	0.01	38	0.009844312	-0.009844312	-100	0	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	90	0	96.88	0	0.01	38	0	0	#DIV/0!	0	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	63	0	96.88	0	0.01	38	0	0	#DIV/0!	0	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	45	0.02	96.88	0.020644096	0.01	38	0	0.020644096	#DIV/0!	0.021308935	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
99	96.89	0	0	96.88	0	0.01	38	0	0	#DIV/0!	0	1.5 N/A	10 12-0	0.013112452	9.48991962	N/A
100	110.1	2800	0	110.06	0	0.04	38	0	0	#DIV/0!	0	2 N/A	10 12-0	0.013042385	19.84748072	N/A
100	110.1	2000	0.04	110.06	0.036343812	0.04	38	0.02557094	0.010772873	42.12935854	0.009788182	2 N/A	10 12-0	0.013042385	19.84748072	N/A
100	110.1	1400	0.3	110.06	0.272578593	0.04	38	0.243634604	0.028943989	11.88008129	0.026298373	2 N/A	10 12-0	0.013042385	19.84748072	N/A
100	110.1	1000	4.1	110.06	3.725240778	0.04	38	3.092428727	0.632812051	20.46327035	0.574970663	2 N/A	10 12-0	0.013042385	19.84748072	N/A
100	110.1	710	97.98	110.06	89.02416864	0.04	38	90.03916126	-1.014992622	-1.127279073	-0.922217538	2 N/A	10 12-0	0.013042385	19.84748072	N/A

100	110.1	500	7.04	110.06	6.396510994	0.04	38	6.167102418	0.229408576	3.719876216	0.208439557	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	355	0.49	110.06	0.445211703	0.04	38	0.335500611	0.109711092	32.7007129	0.0998682983	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	250	0.06	110.06	0.054515719	0.04	38	0.0561114035	-0.001598316	-2.848336388	-0.001452223	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	180	0.03	110.06	0.027257859	0.04	38	0.039543096	-0.003285236	-10.75606825	-0.002898495	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	125	0.02	110.06	0.018171906	0.04	38	0.009944312	0.008227594	82.73668908	0.007475554	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	90	0	110.06	0	0.04	38	0	0	#DIV/0!	0	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	63	0	110.06	0	0.04	38	0	0	#DIV/0!	0	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	45	0	110.06	0	0.04	38	0	0	#DIV/0!	0	2 N/A	10 12-0	0.013042385	19.84748072 N/A
100	110.1	0	0	110.06	0	0.04	38	0	0	#DIV/0!	0	2 N/A	10 12-0	0.013042385	19.84748072 N/A
101	111.84	2800	0	111.76	0	0.08	38	0	0	#DIV/0!	0	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	2000	0	111.76	0	0.08	38	0.02557094	-0.02557094	-100	0	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	1400	0.23	111.76	0.205798139	0.08	38	0.243634604	-0.037836466	-15.53000472	-0.033855105	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	1000	3.46	111.76	3.095919828	0.08	38	3.092428727	0.003491101	0.112891893	0.003123749	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	710	97.37	111.76	87.1241947	0.08	38	90.03916126	-2.91496554	-3.237443035	-2.60823779	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	500	9.41	111.76	8.419828203	0.08	38	6.167102418	2.252725785	36.52810725	2.015681626	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	355	1.04	111.76	0.950565497	0.08	38	0.335500611	0.595064886	177.3662601	0.532448896	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	250	0.12	111.76	0.107372942	0.08	38	0.0561114035	0.051258907	91.34774691	0.045865164	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	180	0.08	111.76	0.071581961	0.08	38	0.030543096	0.041038866	134.3638064	0.036720531	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	125	0.03	111.76	0.026843236	0.08	38	0.009944312	0.016889924	169.9355762	0.015120726	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	90	0	111.76	0	0.08	38	0	0	#DIV/0!	0	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	63	0	111.76	0	0.08	38	0	0	#DIV/0!	0	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	45	0.02	111.76	0.01789549	0.08	38	0	0.01789549	#DIV/0!	0.016012429	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
101	111.84	0	0	111.76	0	0.08	38	0	0	#DIV/0!	0	2.5 N/A	10 12-0	0.012896713	28.84517161 N/A
102	86.89	2800	0	86.8	0	0.09	38	0	0	#DIV/0!	0	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	2000	0.07	86.8	0.080645161	0.09	38	0.0257094	0.055074222	215.3781694	0.063449564	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	1400	0.2	86.8	0.230414747	0.09	38	0.243634604	-0.013219858	-5.426100256	-0.15230251	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	1000	2.22	86.8	2.557603687	0.09	38	3.092428727	-0.53482504	-17.2946602	-0.61615788	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	710	72.7	86.8	83.75576037	0.09	38	90.03916126	-6.283400889	-6.978520014	-7.238941116	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	500	9.78	86.8	11.26728111	0.09	38	6.167102418	5.100178688	82.69975659	5.875781899	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	355	1.5	86.8	1.728110599	0.09	38	0.335500611	1.392609988	415.0841882	1.604389387	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	250	0.15	86.8	0.17281106	0.09	38	0.0561114035	0.116697025	207.9640581	0.134443577	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	180	0.1	86.8	0.115207373	0.09	38	0.030543096	0.084664278	277.1961263	0.09753949	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	125	0.06	86.8	0.069124424	0.09	38	0.009944312	0.059180112	595.1152074	0.068179853	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	90	0.02	86.8	0.023041475	0.09	38	0	0.023041475	#DIV/0!	0.026545478	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	63	0	86.8	0	0.09	38	0	0	#DIV/0!	0	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	45	0	86.8	0	0.09	38	0	0	#DIV/0!	0	3 N/A	10 12-0	0.012861514	37.580183 N/A
102	86.89	0	0	86.8	0	0.09	38	0	0	#DIV/0!	0	3 N/A	10 12-0	0.012861514	37.580183 N/A
103	110.02	2800	0	109.96	0	0.06	38	0	0	#DIV/0!	0	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	2000	0	109.96	0	0.06	38	0.02557094	-0.02557094	-100	0	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	1400	0.2	109.96	0.181884322	0.06	38	0.243634604	-0.061750283	-25.34544837	-0.056157042	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	1000	2.73	109.96	2.482720989	0.06	38	3.092428727	-6.09707377	-19.71614518	-0.55481391	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	710	88.1	109.96	80.12004365	0.06	38	90.03916126	-9.91917605	-11.01644825	-9.020659881	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	500	15	109.96	13.64132412	0.06	38	6.167102418	7.4742217	121.1950312	6.797218716	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	355	3.03	109.96	2.75554742	0.06	38	0.335500611	2.420046861	721.324129	2.00842907	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	250	0.34	109.96	0.309203347	0.06	38	0.0561114035	0.253089311	451.0267541	0.230164889	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	180	0.25	109.96	0.227355402	0.06	38	0.030543096	0.19681306	644.3757675	0.178985364	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	125	0.16	109.96	0.145507457	0.06	38	0.009944312	0.135563145	1363.22299	0.123284054	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	90	0.07	109.96	0.063659513	0.06	38	0	0.063659513	#DIV/0!	0.057893336	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A
103	110.02	63	0.05	109.96	0.04547108	0.06	38	0	0.04547108	#DIV/0!	0.041352383	3.5 N/A	10 12-0	0.012906451	45.38461538 N/A

103	110.02	45	0.03	109.96	0.027282648	0.06	38	0	0.027282648	#DIV/0!	0.02481143	3.5 N/A	10	12-0	45.38461538	N/A
103	110.02	0	0	109.96	0	0.06	38	0	0	#DIV/0!	0	3.5 N/A	10	12-0	45.38461538	N/A
104	111.84	2800	0	111.77	0	0.07	38	0	0	#DIV/0!	0	4 N/A	10	12-0	54.09161055	N/A
104	111.84	2000	0	111.77	0	0.07	38	0.02557094	-0.02557094	#DIV/0!	0	4 N/A	10	12-0	54.09161055	N/A
104	111.84	1400	0.15	111.77	0.134204169	0.07	38	0.243634604	-0.109430435	-44.91580144	-0.097906804	4 N/A	10	12-0	54.09161055	N/A
104	111.84	1000	2.29	111.77	2.048850318	0.07	38	3.092428727	-1.043578409	-33.74623965	-0.933688823	4 N/A	10	12-0	54.09161055	N/A
104	111.84	710	84.32	111.77	75.44063702	0.07	38	90.03916126	-14.59852423	-16.21352757	-13.06121878	4 N/A	10	12-0	54.09161055	N/A
104	111.84	500	18.68	111.77	16.71289255	0.07	38	6.167102418	10.54579013	171.0007296	9.435260024	4 N/A	10	12-0	54.09161055	N/A
104	111.84	355	4.87	111.77	4.357162029	0.07	38	0.33500611	4.021661418	1198.704648	3.598158198	4 N/A	10	12-0	54.09161055	N/A
104	111.84	250	0.59	111.77	0.527869732	0.07	38	0.056114035	0.471755697	840.7089167	0.42207721	4 N/A	10	12-0	54.09161055	N/A
104	111.84	180	0.39	111.77	0.34893084	0.07	38	0.030543096	0.318387745	1042.421335	0.284859752	4 N/A	10	12-0	54.09161055	N/A
104	111.84	125	0.22	111.77	0.196832782	0.07	38	0.009944312	0.18688847	1878.350452	0.167208079	4 N/A	10	12-0	54.09161055	N/A
104	111.84	90	0.12	111.77	0.107363335	0.07	38	0	0.107363335	#DIV/0!	0.096053382	4 N/A	10	12-0	54.09161055	N/A
104	111.84	63	0.07	111.77	0.062628612	0.07	38	0	0.062628612	#DIV/0!	0.056033473	4 N/A	10	12-0	54.09161055	N/A
104	111.84	45	0.04	111.77	0.035787778	0.07	38	0	0.035787778	#DIV/0!	0.032019127	4 N/A	10	12-0	54.09161055	N/A
104	111.84	0	0.03	111.77	0.026840834	0.07	38	0	0.026840834	#DIV/0!	0.024014345	4 N/A	10	12-0	54.09161055	N/A

N.2 Carbolux SK Type B

Test	Input Mass	Sieve Size	Mass retained	Mass collected	Mass Percent of Collected	Error	Bag	Virgin PSD	Deviation	% Change	#DIV/0!	% Change of Collected	Blower	Bond	Office	Straights	Mass Flow Rate	Average Pre Bond Particle Velocity	Average Post Bond Particle Velocity
43	94.42	2800	0	94.35	0	0.07	17	0	0	0	#DIV/0!	0	0	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752
43	94.42	2000	0	94.35	0	0.07	17	0	0	0	#DIV/0!	0	0	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752
43	94.42	1400	0	94.35	0	0.07	17	0	0	0	#DIV/0!	0	0	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752
43	94.42	1000	0.02	94.35	0.021197668	0.07	17	0.027436728	-0.00633906	-22.73981005	-0.006612676	-0.006612676	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752	
43	94.42	710	1.08	94.35	1.144674086	0.07	17	1.316336461	-0.171662375	-13.04091924	-0.181942104	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	500	23.36	94.35	24.97085321	0.07	17	25.49282276	-0.513226871	-2.047515717	-0.535322687	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	355	62.36	94.35	66.09432962	0.07	17	65.67451031	0.419819318	0.444953543	0.444953543	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	250	5.38	94.35	5.702172761	0.07	17	5.433117218	0.269055543	4.952139486	0.285167507	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	180	1.68	94.35	1.786064134	0.07	17	1.742568103	0.038036031	2.1827572	0.040313758	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	125	0.21	94.35	0.222575517	0.07	17	0.20273641	0.019839107	9.785665285	0.02102714	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	90	0.04	94.35	0.0423395337	0.07	17	0.058149761	-0.015754424	-27.09284418	-0.016697853	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	63	0.02	94.35	0.021176668	0.07	17	0.042368004	-0.021170376	-49.96779123	-0.02243813	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	45	0	94.35	0	0.07	17	0.009954211	-0.009954211	-100	0	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752		
43	94.42	0	0	94.35	0	0.07	17	0	0	0	#DIV/0!	0	2.5 Long	10	12-3	0.016742536	28.18855812	20.24180752	
44	92.1	2800	0	92.06	0	0.04	17	0	0	0	#DIV/0!	0	4 Long	10	12-3	0.016521427	54.6151294	19.90987902	
44	92.1	2000	0	92.06	0	0.04	17	0	0	0	#DIV/0!	0	4 Long	10	12-3	0.016521427	54.6151294	19.90987902	
44	92.1	1400	0	92.06	0	0.04	17	0	0	0	#DIV/0!	0	4 Long	10	12-3	0.016521427	54.6151294	19.90987902	
44	92.1	1000	0.03	92.06	0.032587443	0.04	17	0.0271436728	0.005150715	18.7730652	0.005594954	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	710	0.85	92.06	0.923310684	0.04	17	1.316336461	-0.393025576	-29.85753173	-0.426923285	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	500	18.15	92.06	19.715403	0.04	17	25.49282276	-5.774749761	-22.66292688	-6.275712133	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	355	61.91	92.06	67.24961981	0.04	17	65.67451031	1.571509507	2.398357444	1.710959708	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	250	7.45	92.06	8.092548338	0.04	17	2.65948112	2.65948112	48.948632	2.888800999	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	125	0.53	92.06	0.575711493	0.04	17	0.20273641	0.372975082	73.91757553	0.405143474	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	90	0.17	92.06	0.184662177	0.04	17	0.0548149761	2.156360909	11.26512416	0.137423872	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	63	0.11	92.06	0.119487291	0.04	17	0.042368004	0.077119347	182.0222022	0.083770635	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	45	0.04	92.06	0.043449924	0.04	17	0.009954211	0.03495713	336.4979361	0.036384655	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
44	92.1	0	0.03	92.06	0.032587443	0.04	17	0	0.032587443	#DIV/0!	0.035398048	4 Long	10	12-3	0.016521427	54.6151294	19.90987902		
45	91.69	2800	0	91.64	0	0.05	17	0	0	0	#DIV/0!	0	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046	
45	91.69	2000	0	91.64	0	0.05	17	0	0	0	#DIV/0!	0	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046	
45	91.69	1400	0	91.64	0	0.05	17	0	0	0	#DIV/0!	0	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046	
45	91.69	1000	0.03	91.64	0.032735796	0.05	17	0.027436728	0.005300068	19.31742015	0.005783575	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	710	0.93	91.64	1.014840681	0.05	17	1.316336461	-0.30149578	-22.90415777	-3.121763802	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	500	20.74	91.64	22.63203841	0.05	17	25.49282276	-2.860784348	-11.22192067	-3.121763802	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	355	61.38	91.64	66.97946894	0.05	17	65.67451031	1.304974635	1.987033674	1.424022954	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	250	6.03	91.64	6.580096028	0.05	17	5.433117218	1.14697881	21.11087915	1.251613717	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	180	2.07	91.64	2.258838935	0.05	17	1.742568103	0.516270832	29.62701035	0.563368433	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	125	0.31	91.64	0.338280227	0.05	17	0.20273641	0.135543817	66.85716526	0.14790901	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	90	0.06	91.64	0.076385858	0.05	17	0.058149761	0.018236097	31.36957143	0.019899713	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	63	0.06	91.64	0.065473592	0.05	17	0.042368044	0.023105348	54.53831965	0.025213387	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	91.69	45	0.02	91.64	0.021824531	0.05	17	0.009954211	0.01187032	113.2492361	0.012952008	3.5 Long	10	12-3	0.016617515	45.51323575	29.18243046		
45	106.09	2800	0	105.98	0	0.11	17	0	0	0	#DIV/0!	0	3 Long	10	12-3	0.01660352	37.89662293	36.69599531	
46	106.09	2000	0	105.98	0	0.11	17	0	0	0	#DIV/0!	0	3 Long	10	12-3	0.01660352	37.89662293	36.69599531	
46	106.09	1400	0	105.98	0	0.11	17	0	0	0	#DIV/0!	0	3 Long	10	12-3	0.01660352	37.89662293	36.69599531	
46	106.09	1000	0.02	105.98	0.018871485	0.11	17	0.027436728	-0.008081943	-31.218116454	-0.008081943	3 Long	10	12-3	0.01660352	37.89662293	36.69599531		
46	106.09	710	1.2	105.98	1.132289111	0.11	17	1.316336461	-0.18404735	-13.98178619	-0.173662341	3 Long	10	12-3	0.01660352	37.89662293	36.69599531		
46	106.09	500	25.74	105.98	24.28766143	0.11	17	25.49282276	-1.20521325	-4.727688793	-1.137211325	3 Long	10	12-3	0.01660352	37.89662293	36.69599531		
46	106.09	355	69.87	105.98	65.9273535	0.11	17	65.67451031	0.253023191	0.385268485	0.23874617	3 Long	10	12-3	0.01660352	37.89662293	36.69599531		

46	106.09	250	6.52	105.98	6.152104171	0.11	17	5.433117218	0.718986953	13.23341507	0.678417581	3 Long	10 12-3	0.01660352	37.89662293	36.69599531
46	106.09	180	2.18	105.98	2.056991885	0.11	17	1.742568103	0.314423782	18.04370124	0.296682188	3 Long	10 12-3	0.01660352	37.89662293	36.69599531
46	106.09	125	0.3	105.98	0.283072278	0.11	17	0.20273641	0.080335868	39.62577197	0.075802857	3 Long	10 12-3	0.01660352	37.89662293	36.69599531
46	106.09	90	0.08	105.98	0.075485941	0.11	17	0.058146761	0.01733618	29.81298645	0.016357973	3 Long	10 12-3	0.01660352	37.89662293	36.69599531
46	106.09	63	0.05	105.98	0.047158713	0.11	17	0.042368044	0.004840669	11.35447484	0.004633923	3 Long	10 12-3	0.01660352	37.89662293	36.69599531
46	106.09	45	0.02	105.98	0.018871485	0.11	17	0.009594211	0.008971275	89.58294018	0.008414111	3 Long	10 12-3	0.01660352	37.89662293	36.69599531
46	106.09	0	0	105.98	0	0.11	17	#DIV/0!	0	#DIV/0!	0	3 Long	10 12-3	0.01660352	37.89662293	36.69599531
47	105.93	2800	0	105.86	0	0.07	17	0	0	#DIV/0!	0	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	2000	0	105.86	0	0.07	17	0	0	#DIV/0!	0	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	1400	0.02	105.86	0.018892877	0.07	17	0	0.018892877	#DIV/0!	0.017847041	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	1000	1.36	105.86	1.284715662	0.07	17	0.027436728	-0.027436728	-100	0	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	500	27.17	105.86	25.66597393	0.07	17	1.316336461	-0.031620798	6.79215364	-0.019870393	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	355	69.49	105.86	65.64330247	0.07	17	5.433117218	-0.031207831	0.173151169	-0.013043299	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	180	1.86	105.86	1.757037597	0.07	17	1.742568103	0.01469494	-0.04751894	0.013668519	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	125	0.2	105.86	0.18892874	0.07	17	0.20273641	-0.013807636	8.830354578	0.013043299	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	90	0.05	105.86	0.047322193	0.07	17	0.058146761	-0.010917567	-18.77491319	-0.010313213	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	63	0	105.86	0	0.07	17	0.042368044	-0.042368044	-100	0	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
47	105.93	45	0	105.86	0	0.07	17	0.009594211	-0.009594211	-100	0	2 Long	10 12-3	0.016442504	18.85163783	25.85212085
48	91.5	2800	0	91.41	0	0.09	17	0	0	#DIV/0!	0	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	2000	0	91.41	0	0.09	17	0	0	#DIV/0!	0	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	1400	0	91.41	0	0.09	17	0	0	#DIV/0!	0	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	1000	0	91.41	0	0.09	17	0	0	#DIV/0!	0	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	710	0.99	91.41	1.083032491	0.09	17	0.027436728	-0.027436728	-100	0	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	500	19.76	91.41	21.64689093	0.09	17	1.316336461	-0.23330397	-17.72373376	-0.2522806	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	355	60.69	91.41	66.39317361	0.09	17	25.49282276	-3.875931828	-15.20401199	-4.24016172	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	250	6.68	91.41	7.30734384	0.09	17	65.67451031	0.78663307	1.09428042	0.786197689	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	180	2.6	91.41	2.844327754	0.09	17	1.742568103	1.874617166	34.50352883	2.050779089	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	125	0.46	91.41	0.50327218	0.09	17	0.20273641	0.328728594	148.2174848	0.328728594	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	90	0.11	91.41	0.120336943	0.09	17	0.058146761	0.062187183	106.9431454	0.06803105	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	63	0.08	91.41	0.087517777	0.09	17	0.042368044	0.045149733	106.5655354	0.049392553	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	45	0.03	91.41	0.032819166	0.09	17	0.009594211	0.022864956	228.7013456	0.025013626	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
48	91.5	0	0.01	91.41	0.010939722	0.09	17	0	0.010939722	#DIV/0!	0.011967752	4 Long	30 12-3	0.302434358	51.83571429	5.271070933
49	100.13	2800	0	100.08	0	0.05	18	0	0	#DIV/0!	0	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	2000	0	100.08	0	0.05	18	0	0	#DIV/0!	0	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	1400	0	100.08	0	0.05	18	0.016443762	-0.016443762	-100	0	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	1000	0.02	100.08	0.019984013	0.05	18	0.016443762	0.0334025	21.52944311	0.003537421	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	710	1.15	100.08	1.449080735	0.05	18	1.343142607	-0.194061871	-14.44834452	-0.193906746	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	500	24.99	100.08	24.97002398	0.05	18	27.80481605	-2.837252653	-10.19532756	-2.837252653	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	355	65.21	100.08	65.1578737	0.05	18	64.15188524	1.005988457	1.5688135453	1.005184939	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	250	6	100.08	5.995203837	0.05	18	4.866040469	1.129163368	23.20497282	1.128260759	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	180	2.12	100.08	2.118305356	0.05	18	1.51381301	0.604492345	39.93177103	0.604000318	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	125	0.37	100.08	0.369704237	0.05	18	0.17585605	0.193848187	87.34601745	0.193693232	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	90	0.1	100.08	0.099920064	0.05	18	0.053334501	0.046585563	11.35447484	0.046548324	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	63	0.08	100.08	0.079936051	0.05	18	0.047853247	0.032082804	67.0441527	0.032057158	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	45	0.04	100.08	0.039968026	0.05	18	0.010371292	0.029536733	285.3717026	0.029573075	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
49	100.13	0	0	100.08	0	0.05	18	0	0	#DIV/0!	0	4 Long	30 12-3	0.306969809	45.64054367	6.281559685
50	108.04	2800	0	108.01	0	0.03	18	0	0	#DIV/0!	0	3 Long	30 12-3	0.305683398	37.23235256	13.39730322
50	108.04	2000	0	108.01	0	0.03	18	0	0	#DIV/0!	0	3 Long	30 12-3	0.305683398	37.23235256	13.39730322

50	108.04	1400	0	108.01	0	0.03	18	0.016443762	-0.016443762	-100	0	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	1000	0	108.01	0	0.03	18	0.016443762	-0.016443762	-100	0	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	710	1.21	108.01	1.12026642	0.03	18	1.343142607	-0.222875965	-16.59364884	-0.206347528	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	500	26.95	108.01	24.95139339	0.03	18	27.80481605	-2.85342665	-10.26233347	-2.641813411	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	355	71.38	108.01	66.08647347	0.03	18	64.15188524	1.93438823	3.015637378	1.791119554	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	250	5.88	108.01	5.443940376	0.03	18	4.866040469	0.57789907	11.87618374	0.535042965	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	180	2.06	108.01	1.907230812	0.03	18	1.51381301	0.393417801	68.47237498	0.111483024	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	125	0.31	108.01	0.296268864	0.03	18	0.17586505	0.120442814	68.47237498	0.111483024	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	90	0.12	108.01	0.101842422	0.03	18	0.053334501	0.048507921	90.950395987	0.044910583	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	63	0.07	108.01	0.06488814	0.03	18	0.047853247	0.016595567	35.48342711	0.015698145	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	45	0.02	108.01	0.018516804	0.03	18	0.010371292	0.008145512	78.53902416	0.007544442	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
50	108.04	0	0.01	108.01	0.009258402	0.03	18	0	0.009258402	#DIV/0!	0.008571801	3.5 Long	30	12-3	0.306683398	37.23235256	13.39730322
51	86.06	2800	0	85.96	0	0.1	18	0	0	#DIV/0!	0	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	2000	0	85.96	0	0.1	18	0	0	#DIV/0!	0	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	1400	0	85.96	0	0.1	18	0.016443762	-0.016443762	-100	0	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	1000	0	85.96	0	0.1	18	0.016443762	-0.016443762	-100	0	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	500	19.64	85.96	22.8478362	0.1	18	1.343142607	-0.389210545	-28.97760996	-0.452780997	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	355	56.99	85.96	66.29827827	0.1	18	1.343142607	-0.389210545	-17.827743	-5.766612005	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	250	5.83	85.96	6.78222429	0.1	18	2.431363425	2.146393025	3.345798828	2.496967223	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	180	2.09	85.96	2.431363425	0.1	18	1.51381301	0.917550414	39.37870706	2.22915754	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	125	0.37	85.96	0.430432759	0.1	18	0.17586505	0.254576709	144.76426	0.296157177	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	90	0.11	86.06	0.127966496	0.1	18	0.053334501	0.074611995	138.9319261	0.086821772	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	63	0.08	85.96	0.093006543	0.1	18	0.047853247	0.045213295	94.48323409	0.032598064	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	45	0.03	85.96	0.034899953	0.1	18	0.010371292	0.024528661	236.5053513	0.028534971	4 Long	20	12-3	0.112283017	49.854881	11.60867853
51	86.06	0	0	85.96	0	0.1	18	0	0	#DIV/0!	0	4 Long	20	12-3	0.112283017	49.854881	11.60867853
52	119.92	2800	0	119.84	0	0.08	19	0	0	#DIV/0!	0	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	2000	0	119.84	0	0.08	19	0	0	#DIV/0!	0	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	1400	0	119.84	0	0.08	19	0	0	#DIV/0!	0	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	1000	0.02	119.84	0.016668919	0.08	19	0.01986601	-0.002927091	-16.49695959	-0.002751244	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	710	1.39	119.84	1.15997984	0.08	19	1.501823584	-0.341943744	-22.76856933	-0.285333565	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	500	28.76	119.84	23.99866489	0.08	19	27.14541267	-3.14674778	-11.59218888	-2.625790871	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	355	78.85	119.84	65.79606142	0.08	19	64.4444668	1.351614736	2.097333138	1.127849412	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	250	7.59	119.84	6.333444593	0.08	19	5.023478076	1.309965517	26.07688333	1.093096226	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	180	2.58	119.84	2.152870494	0.08	19	1.562213353	0.590657141	37.80899322	0.492871446	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	125	0.41	119.84	0.34212283	0.08	19	0.201759754	0.140363076	69.56941275	0.117123597	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	90	0.13	119.84	0.108477971	0.08	19	0.065558968	0.042919003	65.46625741	0.035815887	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	63	0.06	119.84	0.050066756	0.08	19	0.014989507	0.035077248	234.012016	0.029700687	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	45	0.03	119.84	0.025033378	0.08	19	0.020331402	0.004701976	23.12666889	0.003923545	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
52	119.92	0	0.02	119.84	0.016668919	0.08	19	0	0.016668919	#DIV/0!	0.013926	3.5 Long	20	12-3	0.112072731	42.2168459	13.93155103
53	88.16	2800	0	88.19	0	0	19	0	0	#DIV/0!	0	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	2000	0	88.19	0	0	19	0	0	#DIV/0!	0	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	1400	0	88.19	0	0	19	0	0	#DIV/0!	0	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	1000	0.06	88.19	0.068034925	-0.03	19	0.01998601	0.04808915	240.4142755	0.054483405	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	710	1.38	88.19	1.564803266	-0.03	19	1.501823584	0.062979682	4.193547472	0.071413632	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	500	23.31	88.19	26.43156821	-0.03	19	27.14541267	-0.713844462	-2.629705691	-0.809439235	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	355	56.63	88.19	64.21362956	-0.03	19	64.44444668	-0.230817016	-0.358164323	-0.261726971	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	250	4.89	88.19	5.544846354	-0.03	19	5.023478076	0.521368279	10.37863151	0.591186279	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	180	1.75	88.19	1.768008039	-0.03	19	1.562213353	0.20664686	13.23088718	0.23437429	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	125	0.23	88.19	0.260800544	-0.03	19	0.201759754	0.05904079	29.2629173	0.066947262	3 Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	90	0.07	88.19	0.079374079	-0.03	19	0.065558968	0.013815111	21.07280087	0.015665167	3 Long	30	12-3	0.304893194	30.37583182	32.24253587

53	88.16	63	0.04	88.19	0.045356616	-0.03	19	0.014989507	0.030367109	201.5891069	0.034433733	3	Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	45	0.02	88.19	0.022678308	-0.03	19	0.020333402	0.002346906	11.54325887	0.002661193	3	Long	30	12-3	0.304893194	30.37583182	32.24253587
53	88.16	0	0	88.19	0	-0.03	19	0	0	#DIV/0!	0	0	0	3	Long	0.304893194	30.37583182	32.24253587
54	99.39	2800	0	99.43	0	-0.04	19	0	0	#DIV/0!	0	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	2000	0	99.43	0	-0.04	19	0	0	#DIV/0!	0	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	1400	0	99.43	0	-0.04	19	0	0	#DIV/0!	0	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	1000	0.03	99.43	0.03017198	-0.04	19	0.01998601	0.01018597	50.96550337	0.010244863	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	710	1.41	99.43	1.418083074	-0.04	19	1.901823584	-0.08374051	-5.575921906	-0.084220567	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	500	26.68	99.43	26.6329478	-0.04	19	27.14542167	-0.312424864	-1.15107967	-0.314256124	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	355	64.25	99.43	64.61832445	-0.04	19	64.44444668	0.1738777	0.269810823	0.174874555	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	250	5.18	99.43	5.20965263	-0.04	19	5.02478076	0.186217187	3.706937391	0.18728471	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	180	1.57	99.43	1.579000302	-0.04	19	1.562213353	0.016786949	1.07456184	0.016883183	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	125	0.19	99.43	0.191089208	-0.04	19	0.201759754	-0.010670546	-5.288738478	-0.010731717	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	90	0.08	99.43	0.080458614	-0.04	19	0.085558968	0.01489646	22.77709081	0.014985061	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	63	0.01	99.43	0.010057327	-0.04	19	0.014898507	-0.004932181	-32.90422072	-0.004960455	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	45	0.03	99.43	0.03017198	-0.04	19	0.020333402	0.009840578	48.40088504	0.009896991	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
54	99.39	0	0	99.43	0	-0.04	19	0	0	#DIV/0!	0	2.5	Long	30	12-3	0.304328324	21.1306499	20.89794508
55	115.03	2800	0	114.95	0	0.08	20	0	0	#DIV/0!	0	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	2000	0	114.95	0	0.08	20	0	0	#DIV/0!	0	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	1400	0	114.95	0	0.08	20	0	0	#DIV/0!	0	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	1000	0	114.95	0	0.08	20	0.043412272	-0.043412272	-100	0	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	710	1.96	114.95	1.705089169	0.08	20	1.759220892	-0.054113173	-3.077028182	-0.047091538	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	500	33.35	114.95	29.01261418	0.08	20	29.42149141	-0.40887727	-1.389723979	-0.355700067	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	355	71.5	114.95	62.20095694	0.08	20	62.50916257	-0.308205629	-0.493056723	-0.268121469	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	250	5.86	114.95	5.097868639	0.08	20	4.636592463	0.461276175	9.94860297	0.401284189	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	180	1.88	114.95	1.659493693	0.08	20	1.387261549	0.248231144	17.89368014	0.215947929	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	125	0.26	114.95	0.226185298	0.08	20	0.16739872	0.058786578	35.11769846	0.051140999	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	90	0.07	114.95	0.060896042	0.08	20	0.037730065	0.023165976	61.39924829	0.02015309	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	63	0.05	114.95	0.049497173	0.08	20	0.037730065	0.005767107	15.28517735	0.005017057	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	45	0.02	114.95	0.017398869	0.08	20	0	0.017398869	#DIV/0!	0.015133032	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
55	115.03	0	0	114.95	0	0.02	20	0	0	#DIV/0!	0	3	Long	20	12-3	34.8884238	34.8884238	30.11055382
56	79.88	2800	0	79.86	0	0.02	20	0	0	#DIV/0!	0	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	2000	0	79.86	0	0.02	20	0	0	#DIV/0!	0	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	1400	0	79.86	0	0.02	20	0	0	#DIV/0!	0	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	1000	0.02	79.86	0.025043827	0.02	20	0.043412272	-0.018368446	-42.31164303	-0.023000809	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	710	1.3	79.86	1.627848735	0.02	20	1.759220892	-0.131372157	-7.467632812	-0.164603076	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	500	21.72	79.86	27.19759579	0.02	20	29.42149141	-2.223895614	-7.558745352	-2.784742818	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	355	51.36	79.86	64.31254696	0.02	20	62.50916257	1.803384391	2.884992082	2.258182308	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	250	4.01	79.86	5.022187253	0.02	20	4.636592463	0.38469479	8.296929107	0.481711482	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	180	1.24	79.86	1.552717255	0.02	20	1.387261549	0.165495707	11.926786531	0.207182202	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	125	0.15	79.86	0.1878287	0.02	20	0.16739872	0.02042998	12.20438246	0.025582244	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	90	0.04	79.86	0.050087653	0.02	20	0.037730065	0.012357588	32.75262847	0.015474065	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	63	0.02	79.86	0.025043827	0.02	20	0.037730065	-0.012666239	-33.62368577	-0.015885598	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	45	0	79.86	0	0.02	20	0	0	#DIV/0!	0	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
56	79.88	0	0	79.86	0	0.02	20	0	0	#DIV/0!	0	2.5	Long	20	12-3	26.84245588	26.84245588	25.85971883
57	83.22	2800	0	83.19	0	0.03	20	0	0	#DIV/0!	0	2	Long	20	12-3	17.13847771	17.13847771	23.29495266
57	83.22	2000	0	83.19	0	0.03	20	0	0	#DIV/0!	0	2	Long	20	12-3	17.13847771	17.13847771	23.29495266
57	83.22	1400	0	83.19	0	0.03	20	0	0	#DIV/0!	0	2	Long	20	12-3	17.13847771	17.13847771	23.29495266
57	83.22	1000	0.02	83.19	0.0240041351	0.03	20	0.043412272	-0.0193370921	-44.6208416	-0.0232285156	2	Long	20	12-3	17.13847771	17.13847771	23.29495266
57	83.22	710	1.5	83.19	1.803101334	0.03	20	1.759220892	0.043880442	2.494811127	0.052747256	2	Long	20	12-3	17.13847771	17.13847771	23.29495266
57	83.22	500	24.98	83.19	30.02764755	0.03	20	29.42149141	0.606156147	2.060249559	0.728640638	2	Long	20	12-3	17.13847771	17.13847771	23.29495266

57	83.22	355	51.5	83.19	61.90647914	0.03	20	62.50916257	-0.602683422	-0.96415213	2 Long	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	250	3.8	83.19	4.567856714	0.03	20	4.636592463	-0.06873575	-1.482462607	2 Long	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	180	1.18	83.19	1.418439716	0.03	20	1.387261549	0.03178168	2.24746139	2 Long	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	125	0.16	83.19	0.1923330809	0.03	20	0.16739872	0.024932089	14.89383478	2 Long	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	90	0.03	83.19	0.034062027	0.03	20	0.037390065	-0.001680039	-4.42079902	2 Long	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	63	0.02	83.19	0.024041351	0.03	20	0.037390065	-0.013688714	-36.28065327	2 Long	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	45	0	83.19	0	0.03	20	0	0	#DIV/0!	0	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	0	0	83.19	0	0.03	20	0	0	#DIV/0!	0	20	12-3	0.110137612	17.13847771	23.29495266
57	83.22	2800	0	103.25	0	0.04	20	0	0	#DIV/0!	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	2000	0	103.25	0	0.04	20	0	0	#DIV/0!	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	1400	0	103.25	0	0.04	20	0	0	#DIV/0!	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	1000	0.04	103.25	0.03874092	0.04	20	0	0	#DIV/0!	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	710	2.06	103.25	1.995157385	0.04	20	0.043412272	-0.004671352	-10.76044188	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	500	31.56	103.25	1.759220892	0.04	20	1.759220892	0.235936493	13.41141947	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	355	63.58	103.25	30.56658596	0.04	20	29.42149141	1.146094549	3.892034342	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	250	4.52	103.25	61.57869249	0.04	20	62.50916257	-0.930470072	-1.488533895	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	180	1.33	103.25	1.288135593	0.04	20	4.656592463	-0.25888492	-5.883162509	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	125	0.13	103.25	4.377723971	0.04	20	1.387261549	-0.099125955	-7.146440996	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	90	0.03	103.25	0.12590799	0.04	20	0.16739872	-0.04149073	-24.78557173	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	63	0	103.25	0.02905569	0.04	20	0.037390065	-0.008674375	-22.99061809	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	45	0	103.25	0	0.04	20	0.037390065	-0.037730065	-100	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
58	103.29	0	0	103.25	0	0.04	20	0	0	#DIV/0!	1.5 Long	10	12-3	0.016708363	9.750745913	5.441668554
59	78.43	2800	0	78.41	0	0.02	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	2000	0	78.41	0	0.02	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	1400	0	78.41	0	0.02	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	1000	0.03	78.41	0.038260426	0.02	21	0.025362812	0.012897614	50.85246024	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	710	1.02	78.41	1.300854483	0.02	21	1.442113474	-0.141238991	-9.795275745	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	500	21.44	78.41	27.34345109	0.02	21	29.43650987	-2.093038776	-7.110417593	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	355	50.75	78.41	64.72388726	0.02	21	62.67958438	2.043402878	3.261513135	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	250	3.72	78.41	4.7443292	0.02	21	4.653804524	0.090488296	1.944394002	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	180	1.17	78.41	1.492156613	0.02	21	1.464104741	0.028051872	1.915974396	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	125	0.17	78.41	0.21680908	0.02	21	0.192130681	0.024678399	12.84459055	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	90	0.03	78.41	0.038260426	0.02	21	0.060620167	-0.0234741	-36.86624149	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	63	0.05	78.41	0.063767377	0.02	21	0.0264648358	0.043119018	208.8254049	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	45	0.03	78.41	0.038260426	0.02	21	0.025138994	0.013121432	52.19553297	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	78.43	0	0	78.41	0	0.02	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	2800	0	88.21	0	0.04	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	2000	0	88.21	0	0.04	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	1400	0	88.21	0	0.04	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	1000	0.03	88.21	0.034009749	0.04	21	0.025362812	0.008646937	34.09297594	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	710	1.06	88.21	1.201677814	0.04	21	1.442113474	-0.24043566	-16.67245083	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	500	23.91	88.21	27.1057032	0.04	21	29.43650987	-2.330739546	-7.917852885	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	355	57.11	88.21	64.74322639	0.04	21	62.67958438	2.06364201	3.292367092	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	250	4.46	88.21	5.044779503	0.04	21	4.653804524	0.39097498	8.401190417	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	180	1.36	88.21	1.541775309	0.04	21	1.464104741	0.077670568	5.90498714	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	125	0.18	88.21	0.204058497	0.04	21	0.192130681	0.01197816	6.208178481	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	90	0.05	88.21	0.056682916	0.04	21	0.060620167	-0.003919252	-6.467180494	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	63	0.04	88.21	0.045346333	0.04	21	0.020648338	0.024697974	119.6122889	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	45	0.02	88.21	0.022673166	0.04	21	0.025138994	-0.002465828	-9.80877648	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
59	88.25	0	0	88.21	0	0.04	21	0	0	#DIV/0!	3 Long	40	12-3	0.642798867	21.51206461	14.45899262
60	81.64	2800	0	81.55	0	0.09	22	0	0	#DIV/0!	3.5 Long	40	12-3	0.650365923	28.51100745	21.17197882

61	84.44	90	0.08	84.37	0.094820434	0.07	23	0.064878568	0.029941866	46.15062792	0.035489759	4 Long	40	12.3	0.655158853	33.39162883	9.66344184
61	84.44	63	0.07	84.37	0.08396788	0.07	23	0.084575364	0.0483392515	139.9624151	0.057357491	4 Long	40	12.3	0.655158853	33.39162883	9.66344184
61	84.44	45	0.03	84.37	0.03557663	0.07	23	0.010192641	0.025350022	248.8562285	0.030009403	4 Long	40	12.3	0.655158853	33.39162883	9.66344184
61	84.44	0	0.02	84.37	0.023705108	0.07	23	0	0.023705108	#DIV/0!	0.028996608	4 Long	40	12.3	0.655158853	33.39162883	9.66344184
62	119.36	2800	0	119.28	0	0.08	24	0	0	#DIV/0!	0	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	2000	0	119.28	0	0.08	24	0	0	#DIV/0!	0	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	1400	0	119.28	0	0.08	24	0	0	#DIV/0!	0	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	1000	0.03	119.28	0.025150905	0.08	24	0.010166838	0.014534067	136.8663783	0.012184832	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	710	1.44	119.28	1.207243461	0.08	24	1.433246496	-0.226030335	-15.76860894	-0.189472659	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	500	29.32	119.28	24.58081824	0.08	24	26.59479619	-2.01397795	-7.572827161	-1.688445632	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	355	77.48	119.28	64.9564051	0.08	24	64.79132432	0.165080776	0.254788396	0.138397659	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	250	7.52	119.28	6.304493628	0.08	24	5.205373013	1.099120616	21.11511727	0.921462622	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	180	2.78	119.28	2.33065057	0.08	24	1.646706057	0.683944513	41.53409836	0.573394126	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	125	0.43	119.28	0.360496311	0.08	24	0.187319416	0.173176895	92.45005063	0.145108519	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	90	0.14	119.28	0.117370892	0.08	24	0.049388576	0.067987316	137.671918	0.056998085	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	63	0.09	119.28	0.075452716	0.08	24	0.049388576	0.02606914	52.78909017	0.021855416	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	45	0.03	119.28	0.025150905	0.08	24	0.015925257	0.009225648	57.93091885	0.007734447	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	119.36	0	0.02	119.28	0.01676727	0.08	24	0	0.01676727	#DIV/0!	0.014057068	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	2800	0	85.86	0	0	24	0	0	#DIV/0!	0	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	2000	0	85.86	0	0	24	0	0	#DIV/0!	0	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	1400	0	85.86	0	0	24	0	0	#DIV/0!	0	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	1000	0.02	85.86	0.023293734	0	24	0.015925257	-0.015925257	-100	0.014764612	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	710	1.05	85.86	1.222921034	0	24	1.433246496	-0.210325462	-14.67475847	-0.244962268	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	500	20.39	85.86	23.7479618	0	24	26.59479619	-2.846843394	-10.70447908	-3.315670154	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	355	56.27	85.86	65.53692057	0	24	64.79132432	0.745596247	1.150765561	0.868386032	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	250	5.62	85.86	6.5453925	0	24	5.205373013	1.340166237	25.74582521	1.560873791	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	180	2	85.86	2.329373399	0	24	1.646706057	0.682667342	41.45653919	0.795093573	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	125	0.31	85.86	0.360502877	0	24	0.187319416	0.173733461	92.74717176	0.202345051	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	90	0.1	85.86	0.11646867	0	24	0.049388576	0.07085094	135.84449501	0.078133117	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	63	0.05	85.86	0.058234335	0	24	0.049388576	0.008807759	17.92474506	0.010308951	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	45	0.05	85.86	0.058234335	0	24	0.015925257	0.042309078	265.6728007	0.04927682	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	85.86	0	0	85.86	0	0	24	0	0	#DIV/0!	0	4.5 Long	40	12.3	0.645469319	37.98449895	2.596292032
62	80.96	2800	0	80.89	0	0.07	25	0	0	#DIV/0!	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	2000	0	80.89	0	0.07	25	0	0	#DIV/0!	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	1400	0	80.89	0	0.07	25	0	0	#DIV/0!	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	1000	0.02	80.89	0.024724995	0.07	25	0.009684292	-0.009684292	-100	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	710	1.06	80.89	1.31042156	0.07	25	1.617408902	-0.306997342	-18.98019365	-0.379512105	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	500	19.98	80.89	24.70021016	0.07	25	29.20682167	-4.506615509	-15.42999632	-5.571283853	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	355	52.29	80.89	64.64334281	0.07	25	63.0905049	1.552387908	2.461286227	1.919690824	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	250	5.07	80.89	6.267771047	0.07	25	4.455916408	1.814854639	40.7565396	2.243608158	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	180	1.81	80.89	2.237606626	0.07	25	1.298076022	0.393590604	72.37870415	1.161491566	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	125	0.39	80.89	0.482136234	0.07	25	0.171978193	0.310158042	180.3473082	0.383431872	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	90	0.13	80.89	0.160712078	0.07	25	0.066868308	0.09402277	140.9862724	0.116235344	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	63	0.09	80.89	0.111262208	0.07	25	0.0286401	0.082622108	288.4840045	0.102141313	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	45	0.03	80.89	0.0370687403	0.07	25	0.023797954	0.013288449	55.84231945	0.016429038	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.96	0	0.02	80.89	0.024724995	0.07	25	0	0.024724995	#DIV/0!	0.030566121	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.74	2800	0	80.62	0	0.12	25	0	0	#DIV/0!	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.74	2000	0	80.62	0	0.12	25	0	0	#DIV/0!	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.74	1400	0	80.62	0	0.12	25	0.009684292	-0.009684292	-100	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.74	1000	0	80.62	0	0.12	25	0.033482246	-0.033482246	-100	0	5 Long	40	12.3	0.652296187	42.08997148	2.838599347
62	80.74	710	0.97	80.62	1.203175591	0.12	25	1.617408902	-0.414233511	-25.61093306	-0.513809862	5 Long	40	12.3	0.652296187	42.08997148	2.838599347

63	80.74	500	19.45	80.62	24.1252716	0.12	25	29.20082167	-5.081294506	-17.3976291	-6.302771653	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
63	80.74	355	52.69	80.62	65.35599107	0.12	25	63.0005049	2.265486166	3.590851221	2.810079591	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
63	80.74	250	5.14	80.62	6.375589184	0.12	25	4.405916408	1.922672776	43.17783223	2.384858318	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
63	80.74	180	1.78	80.62	2.207888861	0.12	25	1.298076022	0.909824839	70.088334	1.128520019	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
63	80.74	125	0.35	80.62	0.43413545	0.12	25	0.171978193	0.26217257	152.2463368	0.325176454	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
63	80.74	90	0.1	80.62	0.1240387	0.12	25	0.066689308	0.057349392	85.99488169	0.07113544	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
63	80.74	63	0.08	80.62	0.09923096	0.12	25	0.0286401	0.07059086	246.4756044	0.087559985	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
63	80.74	45	0.04	80.62	0.04961548	0.12	25	0.023797954	0.025877526	108.4863254	0.032023724	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
64	105.18	2800	0	105.07	0.02480774	0.12	25	0.02480774	0.02480774	#DIV/0!	0.030771198	5	Long	40	12-3	0.652296187	42.08997148	2.838599347
64	105.18	2000	0	105.07	0	0.11	26	0	0	#DIV/0!	0	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	1400	0	105.07	0	0.11	26	0	0	#DIV/0!	0	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	1000	0	105.07	0	0.11	26	0	0	#DIV/0!	0	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	710	0.81	105.07	0.770914628	0.11	26	0.019840813	-0.019840813	-10	-0.715695389	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	500	18.09	105.07	17.21709337	0.11	26	1.522895773	-0.751981145	-49.37837231	-0.715695389	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	355	71.06	105.07	67.63110307	0.11	26	30.01773437	-12.800641	-42.64859477	-12.182924669	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	250	9.78	105.07	9.30800327	0.11	26	61.19890703	6.432196045	10.51031196	6.121819782	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	180	3.91	105.07	3.721328638	0.11	26	5.208072302	4.10008025	78.72409957	3.502168102	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	90	0.28	105.07	0.264849007	0.11	26	1.724790383	1.996538255	115.7554143	1.900198206	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	63	0.19	105.07	0.180831826	0.11	26	0.029897947	0.586548371	275.4271359	0.58821678	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	45	0.07	105.07	0.068622252	0.11	26	0.054751118	0.056475118	387.4002466	0.20159266	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
64	105.18	0	0.04	105.07	0.038009858	0.11	26	0.010147133	0.038009858	556.5822918	0.053749994	4	Short	10	12-3	0.01658412	53.63636364	22.90034336
65	118.94	2800	0	118.84	0	0.1	26	0	0	#DIV/0!	0	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	2000	0	118.84	0	0.1	26	0	0	#DIV/0!	0	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	1400	0	118.84	0	0.1	26	0	0	#DIV/0!	0	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	1000	0.03	118.84	0.02524026	0.1	26	0.019840813	0.005403212	27.23281744	0.004546628	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	710	1.08	118.84	0.908784921	0.1	26	1.522895773	-0.614110852	-40.32520564	-0.516754335	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	500	26.32	118.84	22.14742511	0.1	26	30.01773437	-7.870309259	-26.218886503	-6.622609609	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	355	77.91	118.84	65.5873443	0.1	26	61.19890703	4.359827404	7.124028215	3.68865315	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	250	9.09	118.84	7.648939751	0.1	26	5.208072302	2.440867449	46.86700389	2.063910677	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	180	3.43	118.84	2.886233591	0.1	26	1.724790383	1.161443208	67.33822377	0.977316735	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	90	0.17	118.84	0.143049478	0.1	26	0.0546756	0.088373879	161.6331221	0.074863748	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	63	0.11	118.84	0.092561427	0.1	26	0.029987947	0.062573481	208.6621048	0.052653551	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
65	118.94	45	0.04	118.84	0.033658701	0.1	26	0.010147133	0.023511567	231.7069661	0.01978422	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
66	96.05	2800	0	95.99	0	0.06	26	0	0.033658701	#DIV/0!	0.028322703	3.5	Short	10	12-3	0.016628981	46.57894737	28.0906096
66	96.05	2000	0	95.99	0	0.06	26	0	0	#DIV/0!	0	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	1400	0	95.99	0	0.06	26	0	0	#DIV/0!	0	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	1000	0.01	95.99	0.010417752	0.06	26	0.019840813	-0.009816711	-47.49332214	-0.009816711	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	710	0.96	95.99	1.000104178	0.06	26	1.522895773	-0.527915996	-34.32878688	-0.544631311	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	500	20.04	95.99	20.8717471	0.06	26	30.01773437	-9.14059662	-30.4505151	-9.522408233	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	355	65.39	95.99	68.12167934	0.06	26	61.19890703	6.92727313	11.3192148	7.211972406	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	250	6.81	95.99	7.094488909	0.06	26	5.208072302	1.886416707	36.2210161	1.965222114	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	180	2.34	95.99	2.437753933	0.06	26	1.724790383	0.712963549	41.3362433	0.74274733	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	125	0.31	95.99	0.322950307	0.06	26	0.212948651	0.110001656	51.65642309	0.114569696	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	90	0.05	95.99	0.052088759	0.06	26	0.0546756	-0.002694864	-4.731251928	-0.002694864	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	63	0.05	95.99	0.0520088759	0.06	26	0.029987947	0.022100813	73.69898632	0.023024076	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	45	0.03	95.99	0.031253256	0.06	26	0.010147133	0.021106122	208.0008334	0.021987834	3	Short	10	12-3	0.016331895	36.92015537	29.491214
66	96.05	0	0	95.99	0	0.06	26	0	0	#DIV/0!	0	3	Short	10	12-3	0.016331895	36.92015537	29.491214

67	110.21	2800	0	110.08	0	0.13	26	0	0	0	0	0	0	#DIV/0!	-100	-0.384897522	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	2000	0	110.08	0	0.13	26	0	0	0	0	0	0	#DIV/0!	-100	-0.384897522	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	1400	0	110.08	0	0.13	26	0	0	0	0	0	0	#DIV/0!	-100	-0.384897522	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	1000	0	110.08	0	0.13	26	0	0	0	0	0	0	#DIV/0!	-100	-0.384897522	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	710	1.21	110.08	1.0920200581	0.13	26	0.019840813	-0.019840813	-0.019840813	-0.019840813	-0.019840813	-0.019840813	#DIV/0!	-27.8216802	-0.384897522	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	500	26.26	110.08	66.36991279	0.13	26	30.01773437	-6.162366461	-6.162366461	-6.162366461	-6.162366461	-6.162366461	#DIV/0!	-20.52905254	-5.598070913	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	355	73.06	110.08	6.286337209	0.13	26	61.19890703	5.171005762	8.44950672	8.44950672	8.44950672	8.44950672	#DIV/0!	4.697497967	4.697497967	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	250	6.23	110.08	2.025799419	0.13	26	5.208072302	1.078264907	0.97952844	0.97952844	0.97952844	0.97952844	#DIV/0!	0.73445708	0.73445708	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	180	2.23	110.08	0.27252907	0.13	26	1.724790383	0.301090935	0.273445708	0.273445708	0.273445708	0.273445708	#DIV/0!	17.45191985	17.45191985	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	90	0.07	110.08	0.063590116	0.13	26	0.212948651	0.059580419	0.054124654	0.054124654	0.054124654	0.054124654	#DIV/0!	27.97877249	27.97877249	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	63	0.03	110.08	0.027252907	0.13	26	0.0529897947	-0.00273504	0.008998216	0.008998216	0.008998216	0.008998216	#DIV/0!	16.30437844	16.30437844	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	45	0	110.08	0	0.13	26	0.010147133	-0.010147133	-0.010147133	-0.010147133	-0.010147133	-0.010147133	#DIV/0!	-9.120463135	-0.002484659	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
67	110.21	0	0	110.08	0	0.13	26	0	0	0	0	0	0	#DIV/0!	-100	-0.002484659	0	2.5	Short	10	12-3	0.016564645	29.27497073	29.70406823
68	106.43	2800	0	106.31	0	0.12	26	0	0	0	0	0	0	#DIV/0!	-100	-0.105284403	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	2000	0	106.31	0	0.12	26	0	0	0	0	0	0	#DIV/0!	-100	-0.105284403	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	1400	0	106.31	0	0.12	26	0	0	0	0	0	0	#DIV/0!	-100	-0.105284403	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	1000	0	106.31	0	0.12	26	0	0	0	0	0	0	#DIV/0!	-100	-0.105284403	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	710	1.5	106.31	1.410967924	0.12	26	0.019840813	-0.019840813	-0.019840813	-0.019840813	-0.019840813	-0.019840813	#DIV/0!	-7.349672322	-0.105284403	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	500	27.36	106.31	25.73605493	0.12	26	30.01773437	-4.281679435	-4.281679435	-4.281679435	-4.281679435	-4.281679435	#DIV/0!	-14.26383278	-4.027541562	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	355	69.32	106.31	65.20553099	0.12	26	61.19890703	6.546888106	4.006623965	4.006623965	4.006623965	4.006623965	#DIV/0!	3.768811932	3.768811932	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	250	5.95	106.31	5.598839432	0.12	26	5.208072302	0.388767129	0.388767129	0.388767129	0.388767129	0.388767129	#DIV/0!	7.464703002	0.356591966	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	180	1.91	106.31	1.79663249	0.12	26	1.724790383	0.071842106	0.165265947	0.165265947	0.165265947	0.165265947	#DIV/0!	4.165265947	0.067577939	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	90	0.21	106.31	0.197535509	0.12	26	0.12948651	-0.015413142	0.004763117	0.004763117	0.004763117	0.004763117	#DIV/0!	-7.237961685	-0.014498239	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	63	0.06	106.31	0.056438717	0.12	26	0.0546756	0.001658468	0.001658468	0.001658468	0.001658468	0.001658468	#DIV/0!	3.224687733	0.001658468	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	45	0	106.31	0	0.12	26	0.0293987947	-0.0293987947	-0.0293987947	-0.0293987947	-0.0293987947	-0.0293987947	#DIV/0!	-100	0	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
68	106.43	0	0	106.31	0	0.12	26	0.010147133	-0.010147133	-0.010147133	-0.010147133	-0.010147133	-0.010147133	#DIV/0!	-100	0	0	2	Short	10	12-3	0.016436964	19.91420417	26.50862418
69	104.41	2800	0	104.36	0	0.05	26	0	0	0	0	0	0	#DIV/0!	-100	-0.100352523	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	2000	0	104.36	0	0.05	26	0	0	0	0	0	0	#DIV/0!	-100	-0.100352523	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	1400	0	104.36	0	0.05	26	0	0	0	0	0	0	#DIV/0!	-100	-0.100352523	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	1000	0.03	104.36	0.028746646	0.05	26	0.019840813	0.008958333	0.008958333	0.008958333	0.008958333	0.008958333	#DIV/0!	44.88643182	0.008533761	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	710	1.48	104.36	1.41816788	0.05	26	1.522895773	-0.10477893	-0.10477893	-0.10477893	-0.10477893	-0.10477893	#DIV/0!	-6.876891679	-0.100352523	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	500	27.43	104.36	26.29401686	0.05	26	30.01773437	-3.73771593	-3.73771593	-3.73771593	-3.73771593	-3.73771593	#DIV/0!	-12.43837212	-3.577728539	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	355	67.72	104.36	64.89076274	0.05	26	61.19890703	3.69185715	6.032551715	6.032551715	6.032551715	6.032551715	#DIV/0!	3.537615672	3.537615672	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	250	5.69	104.36	5.452280567	0.05	26	5.208072302	0.24408265	4.689933691	4.689933691	4.689933691	4.689933691	#DIV/0!	4.689933691	0.23400562	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	180	1.78	104.36	1.705634843	0.05	26	1.724790383	-0.019156041	-0.019156041	-0.019156041	-0.019156041	-0.019156041	#DIV/0!	-1.110630076	-0.01835731	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	90	0.21	104.36	0.201216524	0.05	26	0.212948651	-0.011721228	-0.011721228	-0.011721228	-0.011721228	-0.011721228	#DIV/0!	-5.504673311	-0.011232395	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	63	0.02	104.36	0.019164431	0.05	26	0.0546756	-0.035511169	-0.035511169	-0.035511169	-0.035511169	-0.035511169	#DIV/0!	-64.94884198	-0.034027567	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	45	0	104.36	0	0.05	26	0.0293987947	-0.0293987947	-0.0293987947	-0.0293987947	-0.0293987947	-0.0293987947	#DIV/0!	-100	0	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
69	104.41	0	0	104.36	0	0.05	26	0.010147133	-0.010147133	-0.010147133	-0.010147133	-0.010147133	-0.010147133	#DIV/0!	-100	0	0	1.5	Short	10	12-3	0.016490475	9.796200084	11.87932522
70	96.84	2800	0	96.79	0	0.05	26	0	0	0	0	0	0	#DIV/0!	-100	-0.110786733	0	4	Short	10	12-3	0.110786733	50.57142857	10.50076969
70	96.84	2000	0	96.79	0	0.05	26	0	0	0	0	0	0	#DIV/0!	-100	-0.110786733	0	4	Short	10	12-3	0.110786733	50.57142857	10.50076969
70	96.84	1400	0	96.79	0	0.05	26	0	0	0	0	0	0	#DIV/0!	-100	-0.110786733	0	4	Short	10	12-3	0.110786733	50.57142857	10.50076969
70	96.84	1000	0.02	96.79	0.020666322	0.05	26	0.019840813	0.000824279	0.000824279	0.000824279	0.000824279	0.000824279	#DIV/0!	4.145387088	0.000849756	0	4	Short	10	12-3	0.110786733	50.57142857	10.50076969
70	96.84	710	0.7	96.79	0.732315208	0.05	26	1.522895773	-0.799606565	-0.799606565	-0.799606565	-0.799606565	-0.799606565	#DIV/0!	-52.51052495	-0.826201638	0	4	Short	10	12-3	0.110786733	50.57142857	10.50076969
70	96.84	500	17.21	96.79	17.78076248	0.05	26	30.01773437	-12.23667189	-12.23667189	-12.23667189	-12.23667189	-12.23667189	#DIV/0!	-40.76580778	-12.64280596	0	4	Short	10	12-3	0.110786733	50.57142857	10.50076969
70	96.84	355	65.02	96.79	67.17636619	0.05	26	61.19890703	5.977454165	9.76725403	9													

70	96.84	125	0.82	96.79	0.847194958	0.05	26	0.212948651	0.634246307	297.8400209	0.655268021	4 Short	20 12-3	0.110786733	50.57142857	10.50076969
70	96.84	90	0.28	96.79	0.289386083	0.05	26	0.0546756	0.234610484	429.0954015	0.242391243	4 Short	20 12-3	0.110786733	50.57142857	10.50076969
70	96.84	63	0.21	96.79	0.21094562	0.05	26	0.029987947	0.186976616	623.3058986	0.19317617	4 Short	20 12-3	0.110786733	50.57142857	10.50076969
70	96.84	45	0.08	96.79	0.082653167	0.05	26	0.0101447133	0.072506033	714.5468573	0.077491066	4 Short	20 12-3	0.110786733	50.57142857	10.50076969
70	96.84	0	0.07	96.79	0.072321521	0.05	26	#DIV/0!	0.072321521	#DIV/0!	0.074720034	4 Short	20 12-3	0.110786733	50.57142857	10.50076969
71	82.07	2800	0	81.99	0	0.08	27	0	0	#DIV/0!	0	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	2000	0	81.99	0	0.08	27	0	0	#DIV/0!	0	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	1400	0	81.99	0	0.08	27	0	0	#DIV/0!	0	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	1000	0	81.99	0	0.08	27	0.014604225	-0.014604225	-100	0	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	710	0.77	81.99	0.939138819	0.08	27	1.372364326	-0.43325406	-31.56781317	-0.528388104	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	500	18.31	81.99	22.33199171	0.08	27	29.9603053	-7.628313597	-25.46140141	-9.303956089	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	355	54.56	81.99	66.54470057	0.08	27	62.45907823	4.085622344	6.541278642	4.983073966	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	250	5.63	81.99	6.86669106	0.08	27	4.492142744	2.374548316	52.86003699	2.896143818	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	180	2.07	81.99	2.524698134	0.08	27	1.414617847	1.110080287	78.47705885	1.35397156	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	125	0.41	81.99	0.500609983	0.08	27	0.181695306	0.318365677	175.2195387	0.388298179	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	90	0.12	81.99	0.146539312	0.08	27	0.057377465	0.088981847	155.0815236	0.108527683	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	63	0.09	81.99	0.10769484	0.08	27	0.047814554	0.06195493	128.5733713	0.075564008	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	45	0.03	81.99	0.036598828	0.08	27	0	0.036598828	#DIV/0!	0.044627184	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
71	82.07	0	0	81.99	0	0.08	27	0	0	#DIV/0!	0	3.5 Short	20 12-3	0.111982404	42.14285714	11.37842336
72	109.49	2800	0	109.4	0	0.09	27	0	0	#DIV/0!	0	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	2000	0	109.4	0	0.09	27	0	0	#DIV/0!	0	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	1400	0	109.4	0	0.09	27	0	0	#DIV/0!	0	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	1000	0.02	109.4	0.018281536	0.09	27	0.01604225	0.00367731	25.17976843	0.00336344	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	710	0.88	109.4	0.804387569	0.09	27	1.372364326	-0.567976757	-41.38673285	-0.519174877	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	500	23.16	109.4	21.17001828	0.09	27	29.9603053	-8.790287022	-29.33977786	-8.034997278	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	355	71.93	109.4	65.74954296	0.09	27	62.45907823	3.29046733	5.268192913	3.007737416	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	250	8.42	109.4	7.696526508	0.09	27	4.492142744	3.204383764	71.33307971	2.929052801	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	180	3.57	109.4	3.263234113	0.09	27	1.414617847	1.846362666	130.6809659	1.68979549	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	125	0.79	109.4	0.722120658	0.09	27	0.181695306	0.540425352	297.4349552	0.493990267	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	90	0.26	109.4	0.237659963	0.09	27	0.057377465	0.180282498	314.2043626	0.164792046	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	63	0.22	109.4	0.201096892	0.09	27	0.047814554	0.153282338	320.5767374	0.140118226	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	45	0.08	109.4	0.073126143	0.09	27	0	0.073126143	#DIV/0!	0.066842909	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
72	109.49	0	0.07	109.4	0.063985375	0.09	27	0	0.063985375	#DIV/0!	0.058487545	4.5 Short	30 12-3	0.306501036	50.15	6.069519341
73	95.06	2800	0	96.04	0	-0.98	27	0	0	#DIV/0!	0	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	2000	0	96.04	0	-0.98	27	0	0	#DIV/0!	0	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	1400	0	96.04	0	-0.98	27	0	0	#DIV/0!	0	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	1000	0.02	96.04	0.020824656	-0.98	27	0.01604225	0.006220431	42.59336388	0.006476917	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	710	1.06	96.04	1.103706789	-0.98	27	1.372364326	-0.26867537	-19.57625478	-0.279735045	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	500	24.26	96.04	25.2603082	-0.98	27	29.9603053	-4.69957099	-15.6874139	-4.893791232	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	355	61.14	96.04	63.66097459	-0.98	27	62.45907823	1.201896365	1.924294113	1.251453941	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	250	6.26	96.04	6.518117451	-0.98	27	4.492142744	2.02594707	45.10040804	2.109511357	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	180	2.44	96.04	2.54060808	-0.98	27	1.414617847	1.125990233	79.58677841	1.172417985	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	125	0.49	96.04	0.510204082	-0.98	27	0.181695306	0.328508776	180.8020156	0.342054119	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	90	0.17	96.04	0.177009579	-0.98	27	0.057377465	0.119632114	208.5001736	0.124564884	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	63	0.12	96.04	0.1248047938	-0.98	27	0.047814554	0.077133884	161.3177941	0.080313811	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	45	0.05	96.04	0.052061641	-0.98	27	0	0.052061641	#DIV/0!	0.054208289	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
73	95.06	0	0.03	96.04	0.031236985	-0.98	27	0	0.031236985	#DIV/0!	0.032524974	4 Short	30 12-3	0.305754556	48.28379791	9.504454334
74	105.73	2800	0	105.68	0	0.05	28	0	0	#DIV/0!	0	3.5 Short	30 12-3	0.305611175	36.03335325	11.10331736
74	105.73	2000	0	105.68	0	0.05	28	0	0	#DIV/0!	0	3.5 Short	30 12-3	0.305611175	36.03335325	11.10331736
74	105.73	1400	0	105.68	0	0.05	28	0	0	#DIV/0!	0	3.5 Short	30 12-3	0.305611175	36.03335325	11.10331736
74	105.73	1000	0	105.68	0	0.05	28	0.014337603	-0.014337603	-100	0	3.5 Short	30 12-3	0.305611175	36.03335325	11.10331736

74	105.73	710	1.42	1.343679031	0.05	28	1.609351043	-0.265672012	-16.50802124	-0.251392896	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	500	26.44	25.04892506	0.05	28	30.39799137	-5.379066313	-17.69546628	-5.089956769	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	355	68.85	65.14950795	0.05	28	61.75003609	3.399471861	5.505214371	3.216759898	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	250	6.08	5.75321726	0.05	28	4.573983006	1.179234254	25.78134815	1.115853761	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	180	2.2	2.081756245	0.05	28	1.392286565	0.68946968	49.52067325	0.652412642	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	125	0.4	0.378501136	0.05	28	0.177862351	0.206638784	112.8056516	0.189855019	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	63	0.12	0.113550341	0.05	28	0.049406209	0.064144132	128.8303038	0.060696567	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	45	0.05	0.094625284	0.05	28	0.034745766	0.059879518	172.3361569	0.056661624	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
74	105.73	0	0.02	0.018925057	0.05	28	0	0.018925057	#DIV/0!	0.044769722	3.5	Short	30	12-3	0.305611175	36.03335325	11.10331736	
75	96.01	2800	0	0	0	28	0	0	#DIV/0!	0	0	3	Short	30	12-3	0.301440047	28.19778787	23.65974944
75	96.01	2000	0	0	0	28	0	0	#DIV/0!	0	0	3	Short	30	12-3	0.301440047	28.19778787	23.65974944
75	96.01	1400	0	0	0	28	0	0	#DIV/0!	0	0	3	Short	30	12-3	0.301440047	28.19778787	23.65974944
75	96.01	1000	0.04	0.041697071	0.08	28	0.014337603	0.027359468	190.8231697	0.028520242	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	710	1.47	1.532367351	0.08	28	1.609351043	-0.076983692	-4.783523304	-0.080249661	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	500	26.2	27.31158136	0.08	28	30.39799137	-3.086410009	-10.15333637	-3.217356415	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	355	61.22	63.81736683	0.08	28	61.75003609	2.067370742	3.347902079	2.155040907	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	250	5.03	5.243406651	0.08	28	4.573983006	0.66943645	14.6354642	0.697825128	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	180	1.59	1.657458564	0.08	28	1.392286565	0.265171999	19.04679168	0.27642239	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	125	0.24	0.250182425	0.08	28	0.177862351	0.072320073	40.660698	0.075388381	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	90	0.09	0.093818409	0.08	28	0.049406209	0.044412201	89.89194229	0.046296467	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	63	0.02	0.020848535	0.08	28	0	-0.013897231	-39.99890385	-0.014480845	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	45	0.03	0.031272803	0.08	28	0	0.031272803	#DIV/0!	0.032596607	3	Short	30	12-3	0.301440047	28.19778787	23.65974944	
75	96.01	0	0	0	0	28	0	0	#DIV/0!	0	0	3	Short	30	12-3	0.301440047	28.19778787	23.65974944
76	97.15	2800	0	0	0	28	0	0	#DIV/0!	0	0	3	Short	20	12-3	0.11105758	34.062298	36.82986173
76	97.15	2000	0	0	0	28	0	0	#DIV/0!	0	0	3	Short	20	12-3	0.11105758	34.062298	36.82986173
76	97.15	1400	0	0	0	28	0	0	#DIV/0!	0	0	3	Short	20	12-3	0.11105758	34.062298	36.82986173
76	97.15	1000	0.03	0.030899166	0.06	28	0.014337603	0.016561563	115.5113812	0.017057949	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	710	1.32	1.359563292	0.06	28	1.609351043	-0.249787751	-15.52102335	-0.257274437	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	500	25.89	26.66598002	0.06	28	30.39799137	-3.732011352	-12.27710432	-3.843867908	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	355	61.77	63.62138222	0.06	28	61.75003609	1.871346135	3.030518285	1.927434478	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	250	5.57	5.736945102	0.06	28	4.573983006	1.162962097	25.4255885	1.197818619	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	180	1.91	1.967246884	0.06	28	1.392286565	0.57496032	41.29611921	0.59219314	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	125	0.32	0.329591101	0.06	28	0.177862351	0.15172875	85.30683914	0.156276393	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	90	0.11	0.1132926941	0.06	28	0.049406209	0.063890732	128.3174134	0.065805678	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	63	0.04	0.049697497	0.06	28	0.034745766	0.057951731	166.7878933	0.059688671	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	45	0.04	0.041198888	0.06	28	0	0.041198888	#DIV/0!	0.042433709	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
76	97.15	0	0.04	0.041198888	0.06	28	0	0.041198888	#DIV/0!	0.042433709	3	Short	20	12-3	0.11105758	34.062298	36.82986173	
77	89.88	2800	0	0	0	29	0	0	#DIV/0!	0	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	2000	0	0	0	29	0	0	#DIV/0!	0	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	1400	0.02	0.022261799	0.04	29	0.01026062	0.012001179	116.9634907	0.013358392	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	1000	0	0	0	29	0	0	#DIV/0!	0	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	710	1.07	1.191006233	0.04	29	1.396784518	-0.20578285	-14.73228656	-0.229049739	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	500	23.65	26.32457703	0.04	29	30.41215684	-4.087579818	-13.44061139	-4.549843964	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	355	58.62	65.24933215	0.04	29	61.64563854	3.60369361	5.845820881	4.011235095	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	250	4.58	5.097951915	0.04	29	4.694518791	0.403433124	8.593705592	0.449057351	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	180	1.55	1.75289403	0.04	29	1.513220457	0.212068946	14.0144118	0.23605181	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	125	0.21	0.233748887	0.04	29	0.196011585	0.037737302	19.25258771	0.042050011	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	90	0.07	0.077916296	0.04	29	0.068478589	0.009437707	13.78198169	0.010500610	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	63	0.05	0.055654497	0.04	29	0.053505878	0.002148619	4.015668737	0.002391606	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	
77	89.88	45	0.02	0.022261799	0.04	29	0.009424182	0.012837616	136.2199466	0.014289422	2.5	Short	20	12-3	0.111525878	25.35175378	25.9598381	

77	89.88	0	0	89.84	0	0.04	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11152587	25.35175378	25.9598381
78	85.19	2800	0	85.13	0	0.06	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11127553	16.17412616	36.39593991	
78	85.19	2000	0	85.13	0	0.06	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11127553	16.17412616	36.39593991	
78	85.19	1400	0	85.13	0	0.06	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11127553	16.17412616	36.39593991	
78	85.19	1000	0	85.13	0	0.06	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11127553	16.17412616	36.39593991	
78	85.19	710	1.11	85.13	0	0.06	29	1.396784518	-0.092886347	-0.01026062	0.01026062	-100	-0.109122927	0.11127553	16.17412616	36.39593991						0.11127553	16.17412616	36.39593991	
78	85.19	500	23.78	85.13	27.93374838	0.06	29	30.41215684	-2.478408459	-0.01026062	-0.01026062	-2.912976212	0.11127553	16.17412616	36.39593991							0.11127553	16.17412616	36.39593991	
78	85.19	355	54.59	85.13	64.12545519	0.06	29	61.64563854	2.47981665	0.01026062	0.01026062	3.59209735	0.11127553	16.17412616	36.39593991							0.11127553	16.17412616	36.39593991	
78	85.19	180	1.25	85.13	1.468342535	0.06	29	4.694518791	0.168631685	-0.04487922	-0.04487922	-2.96572667	0.11127553	16.17412616	36.39593991							0.11127553	16.17412616	36.39593991	
78	85.19	125	0.18	85.13	0.211441325	0.06	29	0.196011585	0.01542974	0.068478589	0.068478589	7.871851255	0.11127553	16.17412616	36.39593991							0.11127553	16.17412616	36.39593991	
78	85.19	90	0.04	85.13	0.046986951	0.06	29	0.068478589	-0.021491628	0.068478589	0.068478589	-31.3844809	0.11127553	16.17412616	36.39593991							0.11127553	16.17412616	36.39593991	
78	85.19	63	0.03	85.13	0.035240221	0.06	29	0.053508578	-0.018265657	0.035240221	0.035240221	-0.021456193	0.11127553	16.17412616	36.39593991							0.11127553	16.17412616	36.39593991	
78	85.19	45	0.01	85.13	0.01174674	0.06	29	0.009424182	0.002322558	0.01174674	0.01174674	0.002728248	0.11127553	16.17412616	36.39593991							0.11127553	16.17412616	36.39593991	
78	85.19	0	0	85.13	0	0.06	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11127553	16.17412616	36.39593991	
79	106.02	2800	0	105.93	0	0.09	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.306217427	19.98807009	17.34163517	
79	106.02	2000	0	105.93	0	0.09	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.306217427	19.98807009	17.34163517	
79	106.02	1400	0	105.93	0	0.09	29	0.01026062	-0.01026062	0.01026062	0.01026062	-100	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	1000	0	105.93	0	0.09	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.306217427	19.98807009	17.34163517	
79	106.02	710	1.49	105.93	1.406589257	0.09	29	1.396784518	0.00904739	0.01026062	0.01026062	0.701950692	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	500	30.33	105.93	28.63211555	0.09	29	30.41215684	-1.780041295	-0.01026062	-0.01026062	-8.583058382	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	355	66.97	105.93	63.220995	0.09	29	61.64563854	1.57535646	0.01026062	0.01026062	2.55503516	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	250	5.08	105.93	4.795619749	0.09	29	4.694518791	0.091612923	0.01026062	0.01026062	1.487167431	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	180	1.7	105.93	1.604833381	0.09	29	1.53220457	0.091612923	0.01026062	0.01026062	6.054168979	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	125	0.24	105.93	0.226564713	0.09	29	0.196011585	0.039533128	0.01026062	0.01026062	15.58740926	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	90	0.07	105.93	0.0668081374	0.09	29	0.068478589	-0.002327215	0.01026062	0.01026062	-5.500677473	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	63	0.05	105.93	0.047200982	0.09	29	0.053508578	-0.006304896	0.01026062	0.01026062	-11.78935821	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
79	106.02	45	0	105.93	0	0.09	29	0.009424182	-0.009424182	0.01026062	0.01026062	-100	0.306217427	19.98807009	17.34163517							0.306217427	19.98807009	17.34163517	
80	90.05	2800	0	90.41	0	0.36	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.659595732	32.58890898	11.23591476	
80	90.05	2000	0	90.41	0	0.36	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.659595732	32.58890898	11.23591476	
80	90.05	1400	0	90.41	0	0.36	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.659595732	32.58890898	11.23591476	
80	90.05	1000	0	90.41	0	0.36	30	0.025612072	-0.025612072	0	0	-100	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	710	1.01	90.41	1.117139061	0.36	30	1.286314065	-0.169181004	0.025612072	0.025612072	-13.15238705	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	500	23.71	90.41	26.22497511	0.36	30	28.84284767	-2.61782561	0.025612072	0.025612072	-9.076331821	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	355	58.76	90.41	64.92821053	0.36	30	63.72869995	1.264110577	0.025612072	0.025612072	1.98819774	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	250	4.85	90.41	5.364450835	0.36	30	4.513842248	0.850608587	0.025612072	0.025612072	18.8444465	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	180	1.64	90.41	1.819586833	0.36	30	1.342581073	0.47137756	0.025612072	0.025612072	35.10980228	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	125	0.27	90.41	0.298639531	0.36	30	0.158184961	0.14005457	0.025612072	0.025612072	88.7913544	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	90	0.08	90.41	0.088485787	0.36	30	0.056134424	0.032351363	0.025612072	0.025612072	57.63194834	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	63	0.07	90.41	0.077425064	0.36	30	0.0356978	0.041772763	0.025612072	0.025612072	116.8902921	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	45	0.02	90.41	0.022121447	0.36	30	0.010085729	0.012035718	0.025612072	0.025612072	119.3341445	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	90.05	0	0	90.41	0	0.36	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.659595732	32.58890898	11.23591476	
80	80.07	2800	0	80.04	0	0.03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.659595732	32.58890898	11.23591476	
80	80.07	2000	0	80.04	0	0.03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.659595732	32.58890898	11.23591476	
80	80.07	1400	0	80.04	0	0.03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.659595732	32.58890898	11.23591476	
80	80.07	1000	0.04	80.04	0.049975012	0.03	30	0.025612072	0.024362941	0.03	30	95.12288203	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	80.07	710	0.95	80.04	1.186906547	0.03	30	1.286314065	-0.094907518	0.03	30	-7.728990747	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	80.07	500	21.04	80.04	26.28686567	0.03	30	28.84284767	-2.555991103	0.03	30	-8.861784842	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	80.07	355	51.88	80.04	64.8175912	0.03	30	63.72869995	1.068981251	0.03	30	1.360433847	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	
80	80.07	250	4.37	80.04	5.459770115	0.03	30	4.513842248	0.945927867	0.03	30	1.181818925	0.659595732	32.58890898	11.23591476							0.659595732	32.58890898	11.23591476	

80	80.07	180	1.44	80.04	1.79910045	0.03	30	1.342581073	0.456519377	34.00311432	0.570364039	4	Short	40	12-3	0.659595732	32.5880898	11.23591476	
80	80.07	125	0.22	80.04	0.274862569	0.03	30	0.1581844961	0.11667607	73.76024013	0.145774122	4	Short	40	12-3	0.659595732	32.5880898	11.23591476	
80	80.07	90	0.06	80.04	0.074962519	0.03	30	0.056134424	0.018828094	33.54108367	0.023523356	4	Short	40	12-3	0.659595732	32.5880898	11.23591476	
80	80.07	63	0.04	80.04	0.049975012	0.03	30	0.03656978	0.014277212	39.99465488	0.017837596	4	Short	40	12-3	0.659595732	32.5880898	11.23591476	
80	80.07	45	0	80.04	0	0.03	30	0.010085729	-0.010085729	-100	#DIV/0!	0	4	Short	40	12-3	0.659595732	32.5880898	11.23591476
80	80.07	0	0	80.04	0	0.03	30	0	0	-100	#DIV/0!	0	4	Short	40	12-3	0.659595732	32.5880898	11.23591476
81	88.22	2800	0	88.19	0	0.03	31	0	0	#DIV/0!	0	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	2000	0	88.19	0	0.03	31	0	0	#DIV/0!	0	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	1400	0	88.19	0	0.03	31	0	0	#DIV/0!	0	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	1000	0	88.19	0	0.03	31	0	0	#DIV/0!	0	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	710	0.96	88.19	1.088558794	0.03	31	1.398844231	-0.310285437	-22.18155749	-0.351837439	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	500	20.13	88.19	22.8257172	0.03	31	26.78062978	-3.954912579	-14.76781021	-4.4846536319	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	355	58.33	88.19	66.14128586	0.03	31	64.34507077	1.796215094	2.791534879	0.828958171	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	250	5.98	88.19	6.780814151	0.03	31	5.392285855	1.388538296	25.7502724	1.574473632	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	180	2.18	88.19	2.471935594	0.03	31	1.740877383	0.73108211	41.99866471	0.203193979	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	125	0.34	88.19	0.385531239	0.03	31	0.20633447	0.17919677	86.84771378	0.03193979	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	90	0.14	88.19	0.158748157	0.03	31	0.065321727	0.093426431	143.0250475	0.105937669	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	63	0.08	88.19	0.090713233	0.03	31	0.043288985	0.047424247	109.526888	0.03775085	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	45	0.02	88.19	0.022678308	0.03	31	0	0.022678308	#DIV/0!	0.025715283	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	88.22	0	0.03	88.19	0.034017462	0.03	31	0	0.034017462	#DIV/0!	0.038572925	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	2800	0	81.15	0	0.11	31	0	0	#DIV/0!	0	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	2000	0	81.15	0	0.11	31	0	0	#DIV/0!	0	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	1400	0	81.15	0	0.11	31	0	0	#DIV/0!	0	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	1000	0.02	81.15	0.024645718	0.11	31	0.0277348602	-0.002701085	-9.877149469	-0.00328508	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	710	0.93	81.15	1.146025878	0.11	31	1.398844231	-0.252818353	-18.07337424	-0.311544889	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	500	18.3	81.15	22.55083179	0.11	31	26.78062978	-4.27979398	-15.79424391	-5.312320379	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	355	53.93	81.15	66.45717807	0.11	31	64.34507077	2.112107299	3.282469463	2.602720023	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	250	5.37	81.15	6.617375231	0.11	31	5.392285855	1.225089376	22.71929584	1.50960352	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	180	1.98	81.15	2.439926063	0.11	31	1.740877383	0.69904868	164.1081817	0.861427825	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	125	0.34	81.15	0.418977203	0.11	31	0.20633447	0.212642733	103.0572998	0.26203664	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	90	0.14	81.15	0.172520025	0.11	31	0.065321727	0.107198298	164.1081817	0.13209895	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	63	0.08	81.15	0.098652871	0.11	31	0.043288985	0.052393866	127.7319979	0.068137875	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	45	0.04	81.15	0.049291436	0.11	31	0	0.049291436	#DIV/0!	0.060741141	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
81	81.26	0	0.02	81.15	0.024645718	0.11	31	0	0.024645718	#DIV/0!	0.03037057	4.5	Short	40	12-3	0.651096739	36.98148922	2.948575385	
82	86.6	2800	0	86.55	0	0.05	32	0	0	#DIV/0!	0	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	2000	0	86.55	0	0.05	32	0	0	#DIV/0!	0	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	1400	0	86.55	0	0.05	32	0.011427265	-0.011427265	-100	0	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	1000	0.02	86.55	0.02310803	0.05	32	0.027971676	-0.00480873	-17.22524451	-0.005596014	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	710	1.1	86.55	1.270941652	0.05	32	1.617245591	-0.346309338	-21.41319416	-0.400120091	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	500	20.32	86.55	23.47773852	0.05	32	28.33538667	-4.857628149	-17.14332755	-5.6125086	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	355	56.39	86.55	65.14530907	0.05	32	63.45499307	1.69807624	2.67066204	1.961984546	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	250	5.69	86.55	6.574234547	0.05	32	4.81701568	1.757132979	36.47697592	2.030194083	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	180	2.18	86.55	2.518775274	0.05	32	1.447939817	1.07083458	73.9557988	1.237244896	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	125	0.45	86.55	0.519930676	0.05	32	0.331529794	0.331529794	175.970404	0.383050022	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	90	0.17	86.55	0.196418255	0.05	32	0.06089575	0.135522505	222.5483812	0.156582906	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	63	0.12	86.55	0.13864818	0.05	32	0.038692622	0.099955558	258.3323433	0.115488802	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	45	0.06	86.55	0.06932409	0.05	32	0	0.06932409	#DIV/0!	0.080097158	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	86.6	0	0.05	86.55	0.057770075	0.05	32	0	0.057770075	#DIV/0!	0.066747632	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	106.4	2800	0	106.3	0	0.1	32	0	0	#DIV/0!	0	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	106.4	2000	0	106.3	0	0.1	32	0	0	#DIV/0!	0	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	
82	106.4	1400	0	106.3	0	0.1	32	0.011427265	-0.011427265	-100	0	5	Short	40	12-3	0.652809186	41.19241322	3.017828456	

82	106.4	1000	0.03	0.028222013	0.1	32	0.02791676	0.000305253	1.093439624	0.000287162	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	710	1.39	1.307619944	0.1	32	1.617246591	-0.309625647	-19.14524602	-0.291275303	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	500	25.36	23.85700847	0.1	32	28.31538667	-4.478378203	-15.804889533	-4.212961621	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	355	68.49	64.43085607	0.1	32	63.45499307	0.975862993	1.53788212	0.918022725	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	250	7.37	6.93207902	0.1	32	4.817101568	2.116106334	43.92903709	1.990692695	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	180	2.73	2.568203198	0.1	32	1.447938817	1.120263382	77.36947136	1.053869597	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	125	0.55	0.517403575	0.1	32	0.388400882	0.32902693	174.6290615	0.309503944	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	63	0.12	0.112888053	0.1	32	0.06089575	0.099028991	16.6205305	0.093159917	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	45	0.05	0.047036689	0.1	32	0.03692622	0.07419543	191.7560142	0.069798147	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
82	106.4	0	0.04	0.037629351	0.1	32	0	0.037629351	#DIV/0!	0.044249002	5 Short	40 12-3	0.652809186	41.19241322	3.017828456
83	114.55	2800	0	114.52	0	0.03	0	0	#DIV/0!	0	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	2000	0	114.52	0	0.03	0	0	#DIV/0!	0	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	1400	0	114.52	0	0.03	0.005052546	-0.005052546	-100	0	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	1000	0.02	0.017464198	0.03	33	0.020759809	-0.003295611	-15.87495634	-0.00287776	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	710	2.1	1.833740831	0.03	33	1.72592974	0.107811091	6.246551579	0.094141714	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	500	37.01	32.31749913	0.03	33	31.5980713	0.71941994	2.276790422	0.628206421	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	355	68.01	59.30700664	0.03	33	60.74558636	-1.358579722	-2.2850771	-1.18632529	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	250	5.24	4.575619979	0.03	33	4.327524419	0.24809556	5.73296731	0.216639504	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	180	1.72	1.501921062	0.03	33	1.295469981	0.20645108	15.93638474	0.180275131	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	125	0.25	0.248302048	0.03	33	0.174122479	0.04180001	25.3729454	0.038578415	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	90	0.08	0.069856794	0.03	33	0.061454992	0.008401801	13.6714705	0.007336536	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	63	0.06	0.052392595	0.03	33	0.035917448	0.016475147	45.86947967	0.014386262	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	114.55	45	0.03	0.026166298	0.03	33	0.01010105093	0.016093205	159.238651	0.014050999	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	2800	0	94.98	0	0.06	0	0	#DIV/0!	0	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	2000	0	94.98	0	0.06	0	0	#DIV/0!	0	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	1400	0	94.98	0	0.06	0.005052546	-0.005052546	-100	0	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	1000	0.02	0.02057065	0.06	33	0.020759809	0.000297256	1.431880936	0.000312967	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	710	1.7	1.789850495	0.06	33	1.72592974	0.063920755	3.703554872	0.067299173	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	500	27.66	29.1219204	0.06	33	31.5980713	-2.476156729	-7.836415863	-2.607029616	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	355	59.52	62.66582438	0.06	33	60.74558636	1.920238025	3.161115301	2.021728812	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	250	4.38	4.611497157	0.06	33	4.327524419	0.283972739	6.562013545	0.298981616	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	180	1.38	1.452937461	0.06	33	1.295469981	0.157467479	12.15523951	0.165790144	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	125	0.22	0.231627711	0.06	33	0.174122479	0.057505233	33.02573745	0.06054457	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	90	0.03	0.031585597	0.06	33	0.061454992	-0.029869395	-48.6086235	-0.03144809	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	63	0.04	0.042114129	0.06	33	0.035917448	0.006196681	17.25256413	0.006524195	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	45	0.03	0.031585597	0.06	33	0.010105093	0.021480504	212.5710676	0.022615818	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
83	95.04	0	0	94.98	0	0.06	0	0	#DIV/0!	0	3.5 Short	40 12-3	0.649336721	25.56269465	5.94845568
84	96.91	2800	0	96.86	0	0.05	0	0	#DIV/0!	0	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	2000	0	96.86	0	0.05	0	0	#DIV/0!	0	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	1400	0	96.86	0	0.05	0	0	#DIV/0!	0	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	1000	0.03	0.030972538	0.05	34	0.026637948	0.00433459	16.27223579	0.004475108	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	710	1.22	1.259519866	0.05	34	1.214088512	-0.459238647	-26.51780485	-0.469278945	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	500	24.25	25.03613463	0.05	34	29.4602928	-4.433138172	-15.04331374	-4.576871951	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	355	63.37	65.42423277	0.05	34	62.71832226	2.706001502	4.314531072	2.79372445	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	250	5.61	5.791864547	0.05	34	4.482889585	1.305949462	29.11266598	1.348301633	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	180	1.9	1.961594053	0.05	34	1.305011667	0.658582386	50.54090202	0.679932259	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	125	0.3	0.309725377	0.05	34	0.165512755	0.144212622	87.13082079	0.148887696	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	90	0.1	0.103241792	0.05	34	0.05868598	0.044555812	75.92241223	0.046000219	3 Short	10 12-3	0.016701734	37.65957447	23.84302783
84	96.91	63	0.06	0.061945075	0.05	34	0.048003303	0.013941772	29.04336083	0.014393736	3 Short	10 12-3	0.016701734	37.65957447	23.84302783

84	96.91	45	0.02	96.86	0.020648358	0.05	34	0.010541586	0.010103172	95.80838323	0.010430696	3 Short	10 12-3	0.016701734	37.65957447	28.84302783
84	96.91	0	0	96.86	0	0.05	34	0	0	#DIV/0!	0	3 Short	10 12-3	0.016701734	37.65957447	28.84302783
85	90.73	2800	0	90.67	0	0.06	34	0	0	#DIV/0!	0	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	2000	0	90.67	0	0.06	34	0	0	#DIV/0!	0	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	1400	0	90.67	0	0.06	34	0	0	#DIV/0!	0	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	1000	0.04	90.67	0.044116025	0.06	34	0.026637948	0.017478077	65.61345184	0.019276582	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	710	1.36	90.67	1.714088512	0.06	34	1.714088512	-0.214143657	-12.49315049	-0.236179174	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	500	25.7	90.67	28.34454616	0.06	34	29.4692928	-1.124746643	-3.8616673343	-1.240483779	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	355	56.55	90.67	62.36903055	0.06	34	62.71832226	-0.349291714	-0.556921329	-0.385234051	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	250	4.84	90.67	5.338039043	0.06	34	4.4858959585	0.852139458	18.99594481	0.939825144	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	180	1.69	90.67	1.863902062	0.06	34	1.863902062	0.56090395	43.04669247	0.618606369	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	125	0.29	90.67	0.319841182	0.06	34	0.165512755	0.154328427	93.24636893	0.17020892	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	90	0.1	90.67	0.1102920063	0.06	34	0.05868598	0.051604083	87.93255959	0.056914175	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	63	0.07	90.67	0.077203044	0.06	34	0.048003303	0.029199741	60.82860834	0.032204413	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	45	0.03	90.67	0.033087019	0.06	34	0.010541586	0.022541833	213.7641998	0.024864401	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
85	90.73	0	0	90.67	0	0.06	34	0	0	#DIV/0!	0	3 Short	20 12-3	0.111200327	33.88212597	5.567128569
86	82.87	2800	0	82.82	0	0.05	34	0	0	#DIV/0!	0	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	2000	0	82.82	0	0.05	34	0	0	#DIV/0!	0	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	1400	0	82.82	0	0.05	34	0	0	#DIV/0!	0	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	1000	0.02	82.82	0.024148756	0.05	34	0.026637948	-0.002489192	-9.344632249	-0.003005644	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	710	1.54	82.82	1.859454238	0.05	34	1.714088512	0.145365726	8.480642897	0.175520074	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	500	23.35	82.82	28.19367303	0.05	34	29.4692928	-1.775619773	-4.328640602	-1.540231554	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	355	52.51	82.82	63.40259977	0.05	34	62.71832226	0.68427504	1.090969081	0.826174238	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	250	3.91	82.82	4.721081864	0.05	34	4.4858959585	0.23518228	5.242700494	0.283967978	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	180	1.2	82.82	1.44892538	0.05	34	1.303011667	0.145913713	11.1981893	0.176181735	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	125	0.17	82.82	0.205264429	0.05	34	0.165512755	0.039731674	24.01728734	0.047997674	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	90	0.05	82.82	0.060371891	0.05	34	0.05868598	0.00168591	2.872765324	0.002035632	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	63	0.05	82.82	0.060371891	0.05	34	0.048003303	0.012368588	25.76611859	0.014934301	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	45	0.02	82.82	0.024148756	0.05	34	0.010541586	0.01360357	129.0026564	0.016425465	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
86	82.87	0	0	82.82	0	0.05	34	0	0	#DIV/0!	0	2.5 Short	20 12-3	0.10923871	25.70157411	13.79226026
87	98.84	2800	0	98.74	0	0.1	34	0	0	#DIV/0!	0	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	2000	0	98.74	0	0.1	34	0	0	#DIV/0!	0	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	1400	0	98.74	0	0.1	34	0	0	#DIV/0!	0	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	1000	0	98.74	0	0.1	34	0.026637948	-0.02667948	-100	0	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	710	1.3	98.74	1.316589022	0.1	34	1.714088512	-0.397499491	-23.19013796	-0.402571897	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	500	24.18	98.74	24.4885558	0.1	34	29.4692928	-4.980796996	-16.90144731	-5.044295114	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	355	63.72	98.74	64.53311728	0.1	34	62.71832226	1.814795013	2.893564349	1.837953224	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	250	6.31	98.74	6.390520559	0.1	34	4.4858959585	1.904620974	42.45794937	1.928925435	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	180	2.37	98.74	2.400243063	0.1	34	1.303011667	1.097231395	84.20733466	1.11123293	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	125	0.47	98.74	0.479997569	0.1	34	0.165512755	0.310448414	187.5896601	0.314446845	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	90	0.11	98.74	0.111403686	0.1	34	0.05868598	0.113483353	193.3738732	0.11493149	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	45	0.06	98.74	0.060765647	0.1	34	0.048003303	0.063400384	132.0750443	0.064209422	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
87	98.84	0	0.05	98.74	0.050638039	0.1	34	0	0.050200461	476.246632	0.050861314	4 Short	30 12-3	0.30520893	43.55985565	1.295327437
88	107.27	2800	0	107.25	0	0.02	35	0	0	#DIV/0!	0	3.5 Short	30 12-3	0.302285129	35.51678502	3.457051492
88	107.27	2000	0	107.25	0	0.02	35	0	0	#DIV/0!	0	3.5 Short	30 12-3	0.302285129	35.51678502	3.457051492
88	107.27	1400	0	107.25	0	0.02	35	0	0	#DIV/0!	0	3.5 Short	30 12-3	0.302285129	35.51678502	3.457051492
88	107.27	1000	0.03	107.25	0.027972028	0.02	35	0.0314483797	-0.003517169	-11.15421064	-0.003274377	3.5 Short	30 12-3	0.302285129	35.51678502	3.457051492
88	107.27	710	1.25	107.25	1.165501166	0.02	35	1.415416307	-0.249915141	-17.6566269	-0.23390211947	3.5 Short	30 12-3	0.302285129	35.51678502	3.457051492
88	107.27	500	25.4	107.25	23.68298368	0.02	35	27.62358029	-3.940596603	-14.26533622	-3.674215947	3.5 Short	30 12-3	0.302285129	35.51678502	3.457051492
88	107.27	355	70.85	107.25	66.06060606	0.02	35	64.21305608	1.847549982	2.877218583	1.72657926	3.5 Short	30 12-3	0.302285129	35.51678502	3.457051492

88	107.27	250	6.5	107.25	6.060606061	0.02	35	4.96661753	1.0938853	22.0268262	1.020039926	3.5 Short	30	12.3	0.302285129	35.51678502	3.457051492
88	107.27	180	2.43	107.25	2.265734266	0.02	35	1.488541179	0.777193087	52.21172904	0.724655559	3.5 Short	30	12.3	0.302285129	35.51678502	3.457051492
88	107.27	125	0.46	107.25	0.400932401	0.02	35	0.177733541	0.22319886	125.5800076	0.208110825	3.5 Short	30	12.3	0.302285129	35.51678502	3.457051492
88	107.27	90	0.11	107.25	0.149184149	0.02	35	0.036490153	0.11269396	308.8339943	0.105075987	3.5 Short	30	12.3	0.302285129	35.51678502	3.457051492
88	107.27	63	0.11	107.25	0.102564103	0.02	35	0.036490153	0.06607395	181.0733711	0.061607412	3.5 Short	30	12.3	0.302285129	35.51678502	3.457051492
88	107.27	45	0.07	107.25	0.065268065	0.02	35	0.010590976	0.05467089	516.2610723	0.050989699	3.5 Short	30	12.3	0.302285129	35.51678502	3.457051492
88	107.27	0	0.02	107.25	0.018648019	0.02	35	0	0.018648019	#DIV/0!	0	3.5 Long	30	12.3	0.302285129	35.51678502	3.457051492
89	98.3	2800	0	98.19	0	0.11	35	0	0	#DIV/0!	0	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	2000	0	98.19	0	0.11	35	0	0	#DIV/0!	0	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	1400	0	98.19	0	0.11	35	0	0	#DIV/0!	0	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	1000	0.03	98.19	0.030553009	0.11	35	0.031483797	-0.000930788	-2.956401779	-0.000947945	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	710	1.22	98.19	1.243489052	0.11	35	1.415416307	-0.17297255	-12.21741295	-0.176114935	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	500	24.17	98.19	24.6155443	0.11	35	27.62358029	-3.00803989	-10.88938855	-3.063486124	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	355	64.77	98.19	65.95394745	0.11	35	64.21305608	1.75089137	2.78659061	1.783166688	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	250	5.68	98.19	5.784703127	0.11	35	4.96661753	0.818065596	16.47166503	0.833165959	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	180	1.86	98.19	1.894486587	0.11	35	1.488541179	0.405745408	27.25792301	0.413224777	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	125	0.27	98.19	0.274977085	0.11	35	0.177733541	0.097243545	54.71310832	0.099036098	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	90	0.09	98.19	0.094659028	0.11	35	0.036490153	0.055168876	151.188939	0.056183839	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	63	0.07	98.19	0.074290355	0.11	35	0.036490153	0.034800203	95.36875014	0.035441697	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	45	0.03	98.19	0.030553009	0.11	35	0.010590976	0.019962033	188.4815154	0.020303006	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
89	98.3	0	0	98.19	0	0.11	35	0	0	#DIV/0!	0	3.5 Long	30	12.3	0.305372782	38.15869632	3.852345288
90	119.8	2800	0	119.74	0	0.06	35	0	0	#DIV/0!	0	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	2000	0	119.74	0	0.06	35	0	0	#DIV/0!	0	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	1400	0	119.74	0	0.06	35	0	0	#DIV/0!	0	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	1000	0.02	119.74	0.016702856	0.06	35	0.031483797	-0.014780941	-46.94777067	-0.012344196	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	710	1.53	119.74	1.27768498	0.06	35	1.415416307	-0.137678709	-9.724899162	-0.114955578	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	500	31.6	119.74	26.39052128	0.06	35	27.62358029	-1.233067508	-4.46382197	-1.029787463	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	355	77.26	119.74	64.52313346	0.06	35	64.21305608	0.310073777	0.48288366	0.25895892	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	250	6.68	119.74	5.57873967	0.06	35	4.96661753	0.612136437	12.32501663	0.511221344	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	180	2.16	119.74	1.803908468	0.06	35	1.488541179	0.3158729	21.1863329	0.263376724	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	125	0.3	119.74	0.250542843	0.06	35	0.177733541	0.072809302	40.96542607	0.060806165	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	90	0.11	119.74	0.094865709	0.06	35	0.036490153	0.055375556	151.7547941	0.046246498	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	63	0.06	119.74	0.050108569	0.06	35	0.036490153	0.013618416	37.32079679	0.011373322	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
90	119.8	45	0.02	119.74	0.016702856	0.06	35	0.010590976	0.00611188	57.70838813	0.005104292	3 Long	20	12.3	0.111175806	34.72414861	18.57087263
91	117.12	2800	0	117.06	0	0.06	36	0	0	#DIV/0!	0	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	2000	0	117.06	0	0.06	36	0	0	#DIV/0!	0	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	1400	0	117.06	0	0.06	36	0	0	#DIV/0!	0	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	1000	0.03	117.06	0.025627883	0.06	36	0.035947644	-0.010319761	-28.70775358	-0.008815788	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	710	1.88	117.06	1.60601401	0.06	36	1.658215419	-0.052201409	-3.148904751	-0.044593721	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	500	33.53	117.06	28.64343072	0.06	36	29.59116694	-0.94776224	-3.202767318	-0.809615773	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	355	74.34	117.06	63.50589441	0.06	36	62.78539326	0.720591152	1.147706731	0.615574194	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	250	5.35	117.06	4.570305826	0.06	36	4.373849154	0.196456672	4.49161974	0.167825621	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	180	1.6	117.06	1.366820434	0.06	36	1.262859329	0.103961105	8.232199933	0.088810102	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	125	0.21	117.06	0.1793935182	0.06	36	0.169402707	0.009982475	5.888651289	0.008536199	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	90	0.05	117.06	0.042713139	0.06	36	0.056482679	-0.013769541	-24.37834215	-0.011762806	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	63	0.05	117.06	0.042713139	0.06	36	0.046192496	-0.003479358	-7.53230606	-0.002972286	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	45	0.02	117.06	0.017085255	0.06	36	0.010290183	0.006795072	66.03451222	0.005804777	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
91	117.12	0	0	117.06	0	0.06	36	0.010290183	-0.010290183	-100	0	2.5 Long	20	12.3	0.112000094	25.70537412	18.45709925
92	116.8	2800	0	116.69	0	0.11	36	0	0	#DIV/0!	0	2 Long	20	12.3	0.111744824	16.56154966	23.24594793
92	116.8	2000	0	116.69	0	0.11	36	0	0	#DIV/0!	0	2 Long	20	12.3	0.111744824	16.56154966	23.24594793

94	96.13	63	0.01	96.05	0.01041244	0.08	37	0.03705761	-0.02329517	-69.11138093	-0.02425249	2 N/A	10 12-0	0.016635951	21.33722083 N/A
94	96.13	45	0.01	96.05	0.01041244	0.08	37	0.02888509	-0.018473846	-63.95633827	-0.019233572	2 N/A	10 12-0	0.016635951	21.33722083 N/A
94	96.13	0	0	96.05	0	0.08	37	0	0	#DIV/0!	0	2 N/A	10 12-0	0.016635951	21.33722083 N/A
95	94.81	2800	0	94.75	0	0.06	37	0	0	#DIV/0!	0	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	2000	0	94.75	0	0.06	37	0	0	#DIV/0!	0	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	1400	0	94.75	0	0.06	37	0	0	#DIV/0!	0	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	1000	0.03	94.75	0.034662269	0.06	37	0.033692782	-0.002030513	-6.026552491	-0.002143022	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	710	1.45	94.75	1.5309343008	0.06	37	1.603180901	-0.072837893	-4.543335894	-0.076873766	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	500	25.1	94.75	26.49076517	0.06	37	29.27078265	-2.780017483	-9.4975859069	-2.934055391	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	355	61.99	94.75	65.42480211	0.06	37	62.85320315	2.57159896	4.091436604	2.714088612	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	250	4.68	94.75	4.939313984	0.06	37	4.530151443	0.409162241	9.031983722	0.431833816	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	180	1.31	94.75	1.382585752	0.06	37	1.357573274	0.025012478	1.84244035	0.026398393	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	125	0.14	94.75	0.147757256	0.06	37	0.19736198	-0.049604725	-25.13388061	-0.052353271	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	90	0.05	94.75	0.052770449	0.06	37	0.091462962	-0.038692514	-42.30402432	-0.040838426	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	63	0	94.75	0	0.06	37	0.03705761	-0.033705761	-100	0	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
95	94.81	45	0	94.75	0	0.06	37	0.02888509	-0.02888509	-100	0	2.5 N/A	10 12-0	0.016459131	31.51888862 N/A
96	106.69	2800	0	106.66	0	0.03	37	0	0	#DIV/0!	0	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	2000	0	106.66	0	0.03	37	0	0	#DIV/0!	0	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	1400	0	106.66	0	0.03	37	0	0	#DIV/0!	0	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	1000	0.04	106.66	0.037502344	0.03	37	0.03692782	0.003809562	11.30675857	0.003571687	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	710	1.44	106.66	1.350084938	0.03	37	1.603180901	-0.253096521	-15.78714671	-0.237293819	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	500	27.68	106.66	25.95162198	0.03	37	29.27078265	-3.19190678	-11.33950095	-3.11190763	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	355	70.03	106.66	65.65722858	0.03	37	62.85320315	2.80402426	4.461229159	2.628938146	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	250	5.48	106.66	5.137821114	0.03	37	4.530151443	0.607669671	13.41389307	0.569725924	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	180	1.67	106.66	1.565722858	0.03	37	1.357573274	0.208149583	15.33247504	0.195152432	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	125	0.25	106.66	0.234389649	0.03	37	0.19736198	0.037077669	18.76129779	0.034715609	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	90	0.04	106.66	0.037502344	0.03	37	0.091462962	-0.053960619	-58.99723461	-0.050591242	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	63	0.03	106.66	0.028126758	0.03	37	0.03705761	-0.005579003	-16.55207588	-0.005230642	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	45	0	106.66	0	0.03	37	0.02888509	-0.02888509	-100	0	3 N/A	10 12-0	0.016585183	40.37750189 N/A
96	106.69	0	0	106.66	0	0.03	37	0	0	#DIV/0!	0	3 N/A	10 12-0	0.016585183	40.37750189 N/A
97	108.21	2800	0	108.12	0	0.09	37	0	0	#DIV/0!	0	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	2000	0	108.12	0	0.09	37	0	0	#DIV/0!	0	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	1400	0	108.12	0	0.09	37	0	0	#DIV/0!	0	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	1000	0.02	108.12	0.018497965	0.09	37	0.033692782	-0.015194817	-45.09813694	-0.014025366	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	710	1.32	108.12	1.220865705	0.09	37	1.603180901	-0.382315196	-23.84728986	-0.35360286	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	500	26.84	108.12	24.82426933	0.09	37	29.27078265	-4.446513324	-15.1909615	-4.112572442	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	355	71.21	108.12	65.86200518	0.09	37	62.85320315	3.00802029	4.787930538	2.782835785	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	250	6.28	108.12	5.80836108	0.09	37	4.530151443	1.278299637	28.215605	1.182213871	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	180	1.99	108.12	1.84054754	0.09	37	1.357573274	0.482974266	35.57629446	0.446702058	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	125	0.32	108.12	0.295967444	0.09	37	0.19736198	0.098605463	49.96173167	0.091200021	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	90	0.07	108.12	0.064742878	0.09	37	0.091462962	-0.026720084	-29.21410309	-0.024713359	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	63	0.05	108.12	0.046244913	0.09	37	0.03705761	0.012539152	37.20180642	0.01159744	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	45	0.02	108.12	0.018497965	0.09	37	0.02888509	-0.010387125	-35.96016076	-0.009607084	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
97	108.21	0	0	108.12	0	0.09	37	0	0	#DIV/0!	0	3.5 N/A	10 12-0	0.016644219	50.11954712 N/A
98	94.25	2800	0	94.21	0	0.04	37	0	0	#DIV/0!	0	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	2000	0	94.21	0	0.04	37	0	0	#DIV/0!	0	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	1400	0	94.21	0	0.04	37	0	0	#DIV/0!	0	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	1000	0.02	94.21	0.021229169	0.04	37	0.033692782	-0.012463613	-36.99193892	-0.013229608	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	710	1.08	94.21	1.146375119	0.04	37	1.603180901	-0.456805782	-28.4937406	-0.484880354	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	500	22.14	94.21	23.50068995	0.04	37	29.27078265	-5.770092706	-19.71280637	-6.124713625	4 N/A	10 12-0	0.016557312	59 N/A

98	94.25	355	62.22	94.21	66.04394438	0.04	37	62.85320315	3.190741229	5.076497408	3.38663922	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	250	6.13	94.21	6.506740261	0.04	37	4.530151443	1.976588818	43.63184857	2.098068891	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	180	2.08	94.21	2.207833563	0.04	37	1.357573274	0.850260289	62.63989479	0.502515963	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	125	0.35	94.21	0.3715110455	0.04	37	0.197361588	0.174148475	88.23810668	0.184851369	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	90	0.1	94.21	0.106145844	0.04	37	0.091462962	0.014662882	16.05336367	0.015585269	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	63	0.06	94.21	0.068687507	0.04	37	0.033705761	0.029981746	88.95139765	0.031824377	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	45	0.03	94.21	0.034843753	0.04	37	0.02888509	0.002958663	10.24287367	0.003140498	4 N/A	10 12-0	0.016557312	59 N/A
98	94.25	0	0	94.21	0	0.04	37	0	0	#DIV/0!	0	4 N/A	10 12-0	0.016557312	59 N/A

N.3 Spent FCC Catalyst

Test ID	Type	Size (um)	%Ret	Virgin %Ret	Mag Dev	Average Particle Velocity
TB1	T	0.01	0	0	0	24.9
TB1	T	0.0114	0	0	0	24.9
TB1	T	0.0129	0	0	0	24.9
TB1	T	0.0147	0	0	0	24.9
TB1	T	0.0167	0	0	0	24.9
TB1	T	0.0189	0	0	0	24.9
TB1	T	0.0215	0	0	0	24.9
TB1	T	0.0244	0	0	0	24.9
TB1	T	0.0278	0	0	0	24.9
TB1	T	0.0315	0	0	0	24.9
TB1	T	0.0358	0	0	0	24.9
TB1	T	0.0407	0	0	0	24.9
TB1	T	0.0463	0	0	0	24.9
TB1	T	0.0526	0	0	0	24.9
TB1	T	0.0597	0	0	0	24.9
TB1	T	0.0679	0	0	0	24.9
TB1	T	0.0771	0	0	0	24.9
TB1	T	0.0876	0	0	0	24.9
TB1	T	0.0995	0	0	0	24.9
TB1	T	0.113	0	0	0	24.9
TB1	T	0.128	0	0	0	24.9
TB1	T	0.146	0	0	0	24.9
TB1	T	0.166	0	0	0	24.9
TB1	T	0.188	0	0	0	24.9
TB1	T	0.214	0	0	0	24.9
TB1	T	0.243	0	0	0	24.9
TB1	T	0.276	0	0	0	24.9
TB1	T	0.314	0	0	0	24.9
TB1	T	0.357	0	0	0	24.9
TB1	T	0.405	0	0	0	24.9
TB1	T	0.46	0	0	0	24.9
TB1	T	0.523	0	0	0	24.9
TB1	T	0.594	0	0	0	24.9
TB1	T	0.675	0	0	0	24.9
TB1	T	0.767	0	0	0	24.9
TB1	T	0.872	0	0	0	24.9
TB1	T	0.991	0	0	0	24.9
TB1	T	1.13	0	0	0	24.9
TB1	T	1.28	0	0	0	24.9
TB1	T	1.45	0	0	0	24.9
TB1	T	1.65	0	0	0	24.9
TB1	T	1.88	0	0	0	24.9
TB1	T	2.13	0	0	0	24.9
TB1	T	2.42	0	0	0	24.9
TB1	T	2.75	0	0	0	24.9
TB1	T	3.12	0	0	0	24.9
TB1	T	3.55	0	0	0	24.9
TB1	T	4.03	0	0	0	24.9
TB1	T	4.58	0	0	0	24.9
TB1	T	5.21	0	0	0	24.9
TB1	T	5.92	0	0	0	24.9
TB1	T	6.72	0	0	0	24.9
TB1	T	7.64	0	0	0	24.9
TB1	T	8.68	0	0	0	24.9
TB1	T	9.86	0	0	0	24.9
TB1	T	11.2	0	0	0	24.9

TB1	T	12.7	0	0	0	24.9
TB1	T	14.5	0	0	0	24.9
TB1	T	16.4	0	0	0	24.9
TB1	T	18.7	0	0	0	24.9
TB1	T	21.2	0	0	0	24.9
TB1	T	24.1	0.013333333	0	0.013333333	24.9
TB1	T	27.4	0.32	0.168333333	0.151666667	24.9
TB1	T	31.1	1.083333333	0.748333333	0.335	24.9
TB1	T	35.3	2.416666667	1.935	0.481666667	24.9
TB1	T	40.1	4.283333333	3.75	0.533333333	24.9
TB1	T	45.6	6.51	6.048333333	0.461666667	24.9
TB1	T	51.8	8.77	8.515	0.255	24.9
TB1	T	58.9	10.71	10.733333333	-0.023333333	24.9
TB1	T	66.9	11.98666667	12.28	-0.293333333	24.9
TB1	T	76	12.34	12.83	-0.49	24.9
TB1	T	86.4	11.7	12.265	-0.565	24.9
TB1	T	98.1	10.18333333	10.68833333	-0.505	24.9
TB1	T	111	8.053333333	8.408333333	-0.355	24.9
TB1	T	127	5.69	5.86	-0.17	24.9
TB1	T	144	3.48	3.493333333	-0.013333333	24.9
TB1	T	163	1.733333333	1.666666667	0.066666667	24.9
TB1	T	186	0.613333333	0.54	0.073333333	24.9
TB1	T	211	0.1	0.071666667	0.028333333	24.9
TB1	T	240	0	0	0	24.9
TB1	T	272	0	0	0	24.9
TB1	T	310	0	0	0	24.9
TB1	T	352	0	0	0	24.9
TB1	T	400	0	0	0	24.9
TB1	T	454	0	0	0	24.9
TB1	T	516	0	0	0	24.9
TB1	T	586	0	0	0	24.9
TB1	T	666	0	0	0	24.9
TB1	T	756	0	0	0	24.9
TB1	T	859	0	0	0	24.9
TB1	T	976	0	0	0	24.9
TB1	T	1110	0	0	0	24.9
TB1	T	1260	0	0	0	24.9
TB1	T	1430	0	0	0	24.9
TB1	T	1630	0	0	0	24.9
TB1	T	1850	0	0	0	24.9
TB1	T	2100	0	0	0	24.9
TB1	T	2390	0	0	0	24.9
TB1	T	2710	0	0	0	24.9
TB1	T	3080	0	0	0	24.9
TB2	T	0.01	0	0	0	37.1
TB2	T	0.0114	0	0	0	37.1
TB2	T	0.0129	0	0	0	37.1
TB2	T	0.0147	0	0	0	37.1
TB2	T	0.0167	0	0	0	37.1
TB2	T	0.0189	0	0	0	37.1
TB2	T	0.0215	0	0	0	37.1
TB2	T	0.0244	0	0	0	37.1
TB2	T	0.0278	0	0	0	37.1
TB2	T	0.0315	0	0	0	37.1
TB2	T	0.0358	0	0	0	37.1
TB2	T	0.0407	0	0	0	37.1
TB2	T	0.0463	0	0	0	37.1

TB2	T	0.0526	0	0	0	37.1
TB2	T	0.0597	0	0	0	37.1
TB2	T	0.0679	0	0	0	37.1
TB2	T	0.0771	0	0	0	37.1
TB2	T	0.0876	0	0	0	37.1
TB2	T	0.0995	0	0	0	37.1
TB2	T	0.113	0	0	0	37.1
TB2	T	0.128	0	0	0	37.1
TB2	T	0.146	0	0	0	37.1
TB2	T	0.166	0	0	0	37.1
TB2	T	0.188	0	0	0	37.1
TB2	T	0.214	0	0	0	37.1
TB2	T	0.243	0	0	0	37.1
TB2	T	0.276	0	0	0	37.1
TB2	T	0.314	0	0	0	37.1
TB2	T	0.357	0	0	0	37.1
TB2	T	0.405	0	0	0	37.1
TB2	T	0.46	0	0	0	37.1
TB2	T	0.523	0	0	0	37.1
TB2	T	0.594	0	0	0	37.1
TB2	T	0.675	0	0	0	37.1
TB2	T	0.767	0	0	0	37.1
TB2	T	0.872	0	0	0	37.1
TB2	T	0.991	0	0	0	37.1
TB2	T	1.13	0	0	0	37.1
TB2	T	1.28	0	0	0	37.1
TB2	T	1.45	0	0	0	37.1
TB2	T	1.65	0	0	0	37.1
TB2	T	1.88	0	0	0	37.1
TB2	T	2.13	0	0	0	37.1
TB2	T	2.42	0	0	0	37.1
TB2	T	2.75	0	0	0	37.1
TB2	T	3.12	0	0	0	37.1
TB2	T	3.55	0	0	0	37.1
TB2	T	4.03	0	0	0	37.1
TB2	T	4.58	0	0	0	37.1
TB2	T	5.21	0	0	0	37.1
TB2	T	5.92	0	0	0	37.1
TB2	T	6.72	0	0	0	37.1
TB2	T	7.64	0	0	0	37.1
TB2	T	8.68	0	0	0	37.1
TB2	T	9.86	0	0	0	37.1
TB2	T	11.2	0	0	0	37.1
TB2	T	12.7	0	0	0	37.1
TB2	T	14.5	0	0	0	37.1
TB2	T	16.4	0	0	0	37.1
TB2	T	18.7	0	0	0	37.1
TB2	T	21.2	0	0	0	37.1
TB2	T	24.1	0	0	0	37.1
TB2	T	27.4	0.216666667	0.168333333	0.048333333	37.1
TB2	T	31.1	0.876666667	0.748333333	0.128333333	37.1
TB2	T	35.3	2.136666667	1.935	0.201666667	37.1
TB2	T	40.1	3.996666667	3.75	0.246666667	37.1
TB2	T	45.6	6.293333333	6.048333333	0.245	37.1
TB2	T	51.8	8.7	8.515	0.185	37.1
TB2	T	58.9	10.813333333	10.733333333	0.08	37.1
TB2	T	66.9	12.23	12.28	-0.05	37.1

TB2	T	76	12.67333333	12.83	-0.156666667	37.1
TB2	T	86.4	12.03666667	12.265	-0.228333333	37.1
TB2	T	98.1	10.44	10.68833333	-0.248333333	37.1
TB2	T	111	8.186666667	8.408333333	-0.221666667	37.1
TB2	T	127	5.706666667	5.86	-0.153333333	37.1
TB2	T	144	3.41	3.493333333	-0.083333333	37.1
TB2	T	163	1.646666667	1.666666667	-0.02	37.1
TB2	T	186	0.553333333	0.54	0.013333333	37.1
TB2	T	211	0.08	0.071666667	0.008333333	37.1
TB2	T	240	0	0	0	37.1
TB2	T	272	0	0	0	37.1
TB2	T	310	0	0	0	37.1
TB2	T	352	0	0	0	37.1
TB2	T	400	0	0	0	37.1
TB2	T	454	0	0	0	37.1
TB2	T	516	0	0	0	37.1
TB2	T	586	0	0	0	37.1
TB2	T	666	0	0	0	37.1
TB2	T	756	0	0	0	37.1
TB2	T	859	0	0	0	37.1
TB2	T	976	0	0	0	37.1
TB2	T	1110	0	0	0	37.1
TB2	T	1260	0	0	0	37.1
TB2	T	1430	0	0	0	37.1
TB2	T	1630	0	0	0	37.1
TB2	T	1850	0	0	0	37.1
TB2	T	2100	0	0	0	37.1
TB2	T	2390	0	0	0	37.1
TB2	T	2710	0	0	0	37.1
TB2	T	3080	0	0	0	37.1
TB3	T	0.01	0	0	0	14
TB3	T	0.0114	0	0	0	14
TB3	T	0.0129	0	0	0	14
TB3	T	0.0147	0	0	0	14
TB3	T	0.0167	0	0	0	14
TB3	T	0.0189	0	0	0	14
TB3	T	0.0215	0	0	0	14
TB3	T	0.0244	0	0	0	14
TB3	T	0.0278	0	0	0	14
TB3	T	0.0315	0	0	0	14
TB3	T	0.0358	0	0	0	14
TB3	T	0.0407	0	0	0	14
TB3	T	0.0463	0	0	0	14
TB3	T	0.0526	0	0	0	14
TB3	T	0.0597	0	0	0	14
TB3	T	0.0679	0	0	0	14
TB3	T	0.0771	0	0	0	14
TB3	T	0.0876	0	0	0	14
TB3	T	0.0995	0	0	0	14
TB3	T	0.113	0	0	0	14
TB3	T	0.128	0	0	0	14
TB3	T	0.146	0	0	0	14
TB3	T	0.166	0	0	0	14
TB3	T	0.188	0	0	0	14
TB3	T	0.214	0	0	0	14
TB3	T	0.243	0	0	0	14
TB3	T	0.276	0	0	0	14

TB3	T	0.314	0	0	0	14
TB3	T	0.357	0	0	0	14
TB3	T	0.405	0	0	0	14
TB3	T	0.46	0	0	0	14
TB3	T	0.523	0	0	0	14
TB3	T	0.594	0	0	0	14
TB3	T	0.675	0	0	0	14
TB3	T	0.767	0	0	0	14
TB3	T	0.872	0	0	0	14
TB3	T	0.991	0	0	0	14
TB3	T	1.13	0	0	0	14
TB3	T	1.28	0	0	0	14
TB3	T	1.45	0	0	0	14
TB3	T	1.65	0	0	0	14
TB3	T	1.88	0	0	0	14
TB3	T	2.13	0	0	0	14
TB3	T	2.42	0	0	0	14
TB3	T	2.75	0	0	0	14
TB3	T	3.12	0	0	0	14
TB3	T	3.55	0	0	0	14
TB3	T	4.03	0	0	0	14
TB3	T	4.58	0	0	0	14
TB3	T	5.21	0	0	0	14
TB3	T	5.92	0	0	0	14
TB3	T	6.72	0	0	0	14
TB3	T	7.64	0	0	0	14
TB3	T	8.68	0	0	0	14
TB3	T	9.86	0	0	0	14
TB3	T	11.2	0	0	0	14
TB3	T	12.7	0	0	0	14
TB3	T	14.5	0	0	0	14
TB3	T	16.4	0	0	0	14
TB3	T	18.7	0	0	0	14
TB3	T	21.2	0	0	0	14
TB3	T	24.1	0.013333333	0	0.013333333	14
TB3	T	27.4	0.32	0.168333333	0.151666667	14
TB3	T	31.1	1.083333333	0.748333333	0.335	14
TB3	T	35.3	2.423333333	1.935	0.488333333	14
TB3	T	40.1	4.303333333	3.75	0.553333333	14
TB3	T	45.6	6.533333333	6.048333333	0.485	14
TB3	T	51.8	8.806666667	8.515	0.291666667	14
TB3	T	58.9	10.75666667	10.73333333	0.023333333	14
TB3	T	66.9	12.03333333	12.28	-0.246666667	14
TB3	T	76	12.38333333	12.83	-0.446666667	14
TB3	T	86.4	11.73	12.265	-0.535	14
TB3	T	98.1	10.18333333	10.68833333	-0.505	14
TB3	T	111	8.03	8.408333333	-0.378333333	14
TB3	T	127	5.64	5.86	-0.22	14
TB3	T	144	3.42	3.493333333	-0.073333333	14
TB3	T	163	1.676666667	1.666666667	0.01	14
TB3	T	186	0.57	0.54	0.03	14
TB3	T	211	0.083333333	0.071666667	0.011666667	14
TB3	T	240	0	0	0	14
TB3	T	272	0	0	0	14
TB3	T	310	0	0	0	14
TB3	T	352	0	0	0	14
TB3	T	400	0	0	0	14

TB3	T	454	0	0	0	14
TB3	T	516	0	0	0	14
TB3	T	586	0	0	0	14
TB3	T	666	0	0	0	14
TB3	T	756	0	0	0	14
TB3	T	859	0	0	0	14
TB3	T	976	0	0	0	14
TB3	T	1110	0	0	0	14
TB3	T	1260	0	0	0	14
TB3	T	1430	0	0	0	14
TB3	T	1630	0	0	0	14
TB3	T	1850	0	0	0	14
TB3	T	2100	0	0	0	14
TB3	T	2390	0	0	0	14
TB3	T	2710	0	0	0	14
TB3	T	3080	0	0	0	14
CB1	C	0.01	0	0	0	13.9
CB1	C	0.0114	0	0	0	13.9
CB1	C	0.0129	0	0	0	13.9
CB1	C	0.0147	0	0	0	13.9
CB1	C	0.0167	0	0	0	13.9
CB1	C	0.0189	0	0	0	13.9
CB1	C	0.0215	0	0	0	13.9
CB1	C	0.0244	0	0	0	13.9
CB1	C	0.0278	0	0	0	13.9
CB1	C	0.0315	0	0	0	13.9
CB1	C	0.0358	0	0	0	13.9
CB1	C	0.0407	0	0	0	13.9
CB1	C	0.0463	0	0	0	13.9
CB1	C	0.0526	0	0	0	13.9
CB1	C	0.0597	0	0	0	13.9
CB1	C	0.0679	0	0	0	13.9
CB1	C	0.0771	0	0	0	13.9
CB1	C	0.0876	0	0	0	13.9
CB1	C	0.0995	0	0	0	13.9
CB1	C	0.113	0	0	0	13.9
CB1	C	0.128	0	0	0	13.9
CB1	C	0.146	0	0	0	13.9
CB1	C	0.166	0	0	0	13.9
CB1	C	0.188	0	0	0	13.9
CB1	C	0.214	0	0	0	13.9
CB1	C	0.243	0	0	0	13.9
CB1	C	0.276	0	0	0	13.9
CB1	C	0.314	0	0	0	13.9
CB1	C	0.357	0	0	0	13.9
CB1	C	0.405	0	0	0	13.9
CB1	C	0.46	0	0	0	13.9
CB1	C	0.523	0	0	0	13.9
CB1	C	0.594	0	0	0	13.9
CB1	C	0.675	0	0	0	13.9
CB1	C	0.767	0	0	0	13.9
CB1	C	0.872	0	0	0	13.9
CB1	C	0.991	0	0	0	13.9
CB1	C	1.13	0	0	0	13.9
CB1	C	1.28	0	0	0	13.9
CB1	C	1.45	0	0	0	13.9
CB1	C	1.65	0	0	0	13.9

CB1	C	1.88	0	0	0	13.9
CB1	C	2.13	0	0	0	13.9
CB1	C	2.42	0	0	0	13.9
CB1	C	2.75	0	0	0	13.9
CB1	C	3.12	0	0	0	13.9
CB1	C	3.55	0	0	0	13.9
CB1	C	4.03	0	0	0	13.9
CB1	C	4.58	0	0	0	13.9
CB1	C	5.21	0	0	0	13.9
CB1	C	5.92	0	0	0	13.9
CB1	C	6.72	0	0	0	13.9
CB1	C	7.64	0	0	0	13.9
CB1	C	8.68	0	0	0	13.9
CB1	C	9.86	0	0	0	13.9
CB1	C	11.2	0	0	0	13.9
CB1	C	12.7	0	0	0	13.9
CB1	C	14.5	0	0	0	13.9
CB1	C	16.4	0	0	0	13.9
CB1	C	18.7	0	0	0	13.9
CB1	C	21.2	0	0	0	13.9
CB1	C	24.1	0	0	0	13.9
CB1	C	27.4	0.08	0	0.08	13.9
CB1	C	31.1	0.5	0.2411111111	0.258888889	13.9
CB1	C	35.3	1.503333333	1.03	0.473333333	13.9
CB1	C	40.1	3.173333333	2.524444444	0.648888889	13.9
CB1	C	45.6	5.41	4.68	0.73	13.9
CB1	C	51.8	7.926666667	7.24	0.686666667	13.9
CB1	C	58.9	10.29666667	9.778888889	0.517777778	13.9
CB1	C	66.9	12.07333333	11.82111111	0.252222222	13.9
CB1	C	76	12.89	12.94666667	-0.056666667	13.9
CB1	C	86.4	12.57	12.92111111	-0.351111111	13.9
CB1	C	98.1	11.17666667	11.74888889	-0.572222222	13.9
CB1	C	111	8.993333333	9.677777778	-0.684444444	13.9
CB1	C	127	6.45	7.132222222	-0.682222222	13.9
CB1	C	144	4.01	4.585555556	-0.575555556	13.9
CB1	C	163	2.04	2.452222222	-0.412222222	13.9
CB1	C	186	0.756666667	0.986666667	-0.23	13.9
CB1	C	211	0.146666667	0.223333333	-0.076666667	13.9
CB1	C	240	0	0	0	13.9
CB1	C	272	0	0	0	13.9
CB1	C	310	0	0	0	13.9
CB1	C	352	0	0	0	13.9
CB1	C	400	0	0	0	13.9
CB1	C	454	0	0	0	13.9
CB1	C	516	0	0	0	13.9
CB1	C	586	0	0	0	13.9
CB1	C	666	0	0	0	13.9
CB1	C	756	0	0	0	13.9
CB1	C	859	0	0	0	13.9
CB1	C	976	0	0	0	13.9
CB1	C	1110	0	0	0	13.9
CB1	C	1260	0	0	0	13.9
CB1	C	1430	0	0	0	13.9
CB1	C	1630	0	0	0	13.9
CB1	C	1850	0	0	0	13.9
CB1	C	2100	0	0	0	13.9
CB1	C	2390	0	0	0	13.9

CB1	C	2710	0	0	0	13.9
CB1	C	3080	0	0	0	13.9
CB2	C	0.01	0	0	0	26.4
CB2	C	0.0114	0	0	0	26.4
CB2	C	0.0129	0	0	0	26.4
CB2	C	0.0147	0	0	0	26.4
CB2	C	0.0167	0	0	0	26.4
CB2	C	0.0189	0	0	0	26.4
CB2	C	0.0215	0	0	0	26.4
CB2	C	0.0244	0	0	0	26.4
CB2	C	0.0278	0	0	0	26.4
CB2	C	0.0315	0	0	0	26.4
CB2	C	0.0358	0	0	0	26.4
CB2	C	0.0407	0	0	0	26.4
CB2	C	0.0463	0	0	0	26.4
CB2	C	0.0526	0	0	0	26.4
CB2	C	0.0597	0	0	0	26.4
CB2	C	0.0679	0	0	0	26.4
CB2	C	0.0771	0	0	0	26.4
CB2	C	0.0876	0	0	0	26.4
CB2	C	0.0995	0	0	0	26.4
CB2	C	0.113	0	0	0	26.4
CB2	C	0.128	0	0	0	26.4
CB2	C	0.146	0	0	0	26.4
CB2	C	0.166	0	0	0	26.4
CB2	C	0.188	0	0	0	26.4
CB2	C	0.214	0	0	0	26.4
CB2	C	0.243	0	0	0	26.4
CB2	C	0.276	0	0	0	26.4
CB2	C	0.314	0	0	0	26.4
CB2	C	0.357	0	0	0	26.4
CB2	C	0.405	0	0	0	26.4
CB2	C	0.46	0	0	0	26.4
CB2	C	0.523	0	0	0	26.4
CB2	C	0.594	0	0	0	26.4
CB2	C	0.675	0	0	0	26.4
CB2	C	0.767	0	0	0	26.4
CB2	C	0.872	0	0	0	26.4
CB2	C	0.991	0	0	0	26.4
CB2	C	1.13	0	0	0	26.4
CB2	C	1.28	0	0	0	26.4
CB2	C	1.45	0	0	0	26.4
CB2	C	1.65	0	0	0	26.4
CB2	C	1.88	0	0	0	26.4
CB2	C	2.13	0	0	0	26.4
CB2	C	2.42	0	0	0	26.4
CB2	C	2.75	0	0	0	26.4
CB2	C	3.12	0	0	0	26.4
CB2	C	3.55	0	0	0	26.4
CB2	C	4.03	0	0	0	26.4
CB2	C	4.58	0	0	0	26.4
CB2	C	5.21	0	0	0	26.4
CB2	C	5.92	0	0	0	26.4
CB2	C	6.72	0	0	0	26.4
CB2	C	7.64	0	0	0	26.4
CB2	C	8.68	0	0	0	26.4
CB2	C	9.86	0	0	0	26.4

CB2	C	11.2	0	0	0	26.4
CB2	C	12.7	0	0	0	26.4
CB2	C	14.5	0	0	0	26.4
CB2	C	16.4	0	0	0	26.4
CB2	C	18.7	0	0	0	26.4
CB2	C	21.2	0	0	0	26.4
CB2	C	24.1	0	0	0	26.4
CB2	C	27.4	0.056666667	0	0.056666667	26.4
CB2	C	31.1	0.42	0.241111111	0.178888889	26.4
CB2	C	35.3	1.35	1.03	0.32	26.4
CB2	C	40.1	2.946666667	2.524444444	0.422222222	26.4
CB2	C	45.6	5.14	4.68	0.46	26.4
CB2	C	51.8	7.656666667	7.24	0.416666667	26.4
CB2	C	58.9	10.07333333	9.778888889	0.294444444	26.4
CB2	C	66.9	11.94333333	11.82111111	0.122222222	26.4
CB2	C	76	12.88333333	12.94666667	-0.063333333	26.4
CB2	C	86.4	12.69	12.92111111	-0.231111111	26.4
CB2	C	98.1	11.39333333	11.74888889	-0.355555556	26.4
CB2	C	111	9.263333333	9.677777778	-0.414444444	26.4
CB2	C	127	6.723333333	7.132222222	-0.408888889	26.4
CB2	C	144	4.24	4.585555556	-0.345555556	26.4
CB2	C	163	2.206666667	2.452222222	-0.245555556	26.4
CB2	C	186	0.846666667	0.986666667	-0.14	26.4
CB2	C	211	0.17	0.223333333	-0.053333333	26.4
CB2	C	240	0	0	0	26.4
CB2	C	272	0	0	0	26.4
CB2	C	310	0	0	0	26.4
CB2	C	352	0	0	0	26.4
CB2	C	400	0	0	0	26.4
CB2	C	454	0	0	0	26.4
CB2	C	516	0	0	0	26.4
CB2	C	586	0	0	0	26.4
CB2	C	666	0	0	0	26.4
CB2	C	756	0	0	0	26.4
CB2	C	859	0	0	0	26.4
CB2	C	976	0	0	0	26.4
CB2	C	1110	0	0	0	26.4
CB2	C	1260	0	0	0	26.4
CB2	C	1430	0	0	0	26.4
CB2	C	1630	0	0	0	26.4
CB2	C	1850	0	0	0	26.4
CB2	C	2100	0	0	0	26.4
CB2	C	2390	0	0	0	26.4
CB2	C	2710	0	0	0	26.4
CB2	C	3080	0	0	0	26.4
CB3	C	0.01	0	0	0	36.9
CB3	C	0.0114	0	0	0	36.9
CB3	C	0.0129	0	0	0	36.9
CB3	C	0.0147	0	0	0	36.9
CB3	C	0.0167	0	0	0	36.9
CB3	C	0.0189	0	0	0	36.9
CB3	C	0.0215	0	0	0	36.9
CB3	C	0.0244	0	0	0	36.9
CB3	C	0.0278	0	0	0	36.9
CB3	C	0.0315	0	0	0	36.9
CB3	C	0.0358	0	0	0	36.9
CB3	C	0.0407	0	0	0	36.9

CB3	C	0.0463	0	0	0	36.9
CB3	C	0.0526	0	0	0	36.9
CB3	C	0.0597	0	0	0	36.9
CB3	C	0.0679	0	0	0	36.9
CB3	C	0.0771	0	0	0	36.9
CB3	C	0.0876	0	0	0	36.9
CB3	C	0.0995	0	0	0	36.9
CB3	C	0.113	0	0	0	36.9
CB3	C	0.128	0	0	0	36.9
CB3	C	0.146	0	0	0	36.9
CB3	C	0.166	0	0	0	36.9
CB3	C	0.188	0	0	0	36.9
CB3	C	0.214	0	0	0	36.9
CB3	C	0.243	0	0	0	36.9
CB3	C	0.276	0	0	0	36.9
CB3	C	0.314	0	0	0	36.9
CB3	C	0.357	0	0	0	36.9
CB3	C	0.405	0	0	0	36.9
CB3	C	0.46	0	0	0	36.9
CB3	C	0.523	0	0	0	36.9
CB3	C	0.594	0	0	0	36.9
CB3	C	0.675	0	0	0	36.9
CB3	C	0.767	0	0	0	36.9
CB3	C	0.872	0	0	0	36.9
CB3	C	0.991	0	0	0	36.9
CB3	C	1.13	0	0	0	36.9
CB3	C	1.28	0	0	0	36.9
CB3	C	1.45	0	0	0	36.9
CB3	C	1.65	0	0	0	36.9
CB3	C	1.88	0	0	0	36.9
CB3	C	2.13	0	0	0	36.9
CB3	C	2.42	0	0	0	36.9
CB3	C	2.75	0	0	0	36.9
CB3	C	3.12	0	0	0	36.9
CB3	C	3.55	0	0	0	36.9
CB3	C	4.03	0	0	0	36.9
CB3	C	4.58	0	0	0	36.9
CB3	C	5.21	0	0	0	36.9
CB3	C	5.92	0	0	0	36.9
CB3	C	6.72	0	0	0	36.9
CB3	C	7.64	0	0	0	36.9
CB3	C	8.68	0	0	0	36.9
CB3	C	9.86	0	0	0	36.9
CB3	C	11.2	0	0	0	36.9
CB3	C	12.7	0	0	0	36.9
CB3	C	14.5	0	0	0	36.9
CB3	C	16.4	0	0	0	36.9
CB3	C	18.7	0	0	0	36.9
CB3	C	21.2	0	0	0	36.9
CB3	C	24.1	0	0	0	36.9
CB3	C	27.4	0.053333333	0	0.053333333	36.9
CB3	C	31.1	0.416666667	0.241111111	0.175555556	36.9
CB3	C	35.3	1.356666667	1.03	0.326666667	36.9
CB3	C	40.1	2.99	2.524444444	0.465555556	36.9
CB3	C	45.6	5.226666667	4.68	0.546666667	36.9
CB3	C	51.8	7.783333333	7.24	0.543333333	36.9
CB3	C	58.9	10.22	9.778888889	0.441111111	36.9

CB3	C	66.9	12.08333333	11.82111111	0.26222222	36.9
CB3	C	76	12.98	12.94666667	0.03333333	36.9
CB3	C	86.4	12.72	12.92111111	-0.20111111	36.9
CB3	C	98.1	11.35333333	11.74888889	-0.39555556	36.9
CB3	C	111	9.15666667	9.67777778	-0.52111111	36.9
CB3	C	127	6.57666667	7.13222222	-0.55555556	36.9
CB3	C	144	4.08666667	4.58555556	-0.49888889	36.9
CB3	C	163	2.08	2.45222222	-0.37222222	36.9
CB3	C	186	0.76666667	0.98666667	-0.22	36.9
CB3	C	211	0.14333333	0.22333333	-0.08	36.9
CB3	C	240	0	0	0	36.9
CB3	C	272	0	0	0	36.9
CB3	C	310	0	0	0	36.9
CB3	C	352	0	0	0	36.9
CB3	C	400	0	0	0	36.9
CB3	C	454	0	0	0	36.9
CB3	C	516	0	0	0	36.9
CB3	C	586	0	0	0	36.9
CB3	C	666	0	0	0	36.9
CB3	C	756	0	0	0	36.9
CB3	C	859	0	0	0	36.9
CB3	C	976	0	0	0	36.9
CB3	C	1110	0	0	0	36.9
CB3	C	1260	0	0	0	36.9
CB3	C	1430	0	0	0	36.9
CB3	C	1630	0	0	0	36.9
CB3	C	1850	0	0	0	36.9
CB3	C	2100	0	0	0	36.9
CB3	C	2390	0	0	0	36.9
CB3	C	2710	0	0	0	36.9
CB3	C	3080	0	0	0	36.9

APPENDIX O: Experimental Data – Industrial Scale Pneumatic Conveying

This Appendix contains all the raw data and calculations used to analyse the particle attrition behaviour across all material types in the experimental programme. The data is arranged by facility, and then by material type.

O.1 Wolfson Centre Industrial Scale Pneumatic Conveying System

O.1.1 Carbolux Type C

Material	Batch	Run	Sieve	% Ret	Virgin	Mag Dev
Carbolux 800-1000	A	Virgin	850	48.8189		
Carbolux 800-1000	A	Virgin	600	49.90157		
Carbolux 800-1000	A	Virgin	425	0.688976		
Carbolux 800-1000	A	Virgin	300	0.098425		
Carbolux 800-1000	A	Virgin	212	0.098425		
Carbolux 800-1000	A	Virgin	150	0.098425		
Carbolux 800-1000	A	Virgin	106	0.098425		
Carbolux 800-1000	A	Virgin	75	0.098425		
Carbolux 800-1000	A	Virgin	56	0.098425		
Carbolux 800-1000	A	Virgin	0	0		
Carbolux 800-1000	A	1	850	36.38814	48.8189	-12.4308
Carbolux 800-1000	A	1	600	54.71698	49.90157	4.815406
Carbolux 800-1000	A	1	425	6.199461	0.688976	5.510485
Carbolux 800-1000	A	1	300	1.347709	0.098425	1.249284
Carbolux 800-1000	A	1	212	0.449236	0.098425	0.350811
Carbolux 800-1000	A	1	150	0.269542	0.098425	0.171117
Carbolux 800-1000	A	1	106	0.179695	0.098425	0.081269
Carbolux 800-1000	A	1	75	0.179695	0.098425	0.081269
Carbolux 800-1000	A	1	56	0.089847	0.098425	-0.00858
Carbolux 800-1000	A	1	0	0.179695	0	0.179695
Carbolux 800-1000	A	2	850	32.92845	48.8189	-15.8904
Carbolux 800-1000	A	2	600	54.27975	49.90157	4.378175
Carbolux 800-1000	A	2	425	8.54052	0.688976	7.851544
Carbolux 800-1000	A	2	300	2.087683	0.098425	1.989257
Carbolux 800-1000	A	2	212	0.664263	0.098425	0.565837
Carbolux 800-1000	A	2	150	0.379579	0.098425	0.281153
Carbolux 800-1000	A	2	106	0.284684	0.098425	0.186259
Carbolux 800-1000	A	2	75	0.284684	0.098425	0.186259
Carbolux 800-1000	A	2	56	0.284684	0.098425	0.186259
Carbolux 800-1000	A	2	0	0.265705	0	0.265705
Carbolux 800-1000	A	3	850	28.4827	48.8189	-20.3362
Carbolux 800-1000	A	3	600	53.8598	49.90157	3.95823
Carbolux 800-1000	A	3	425	11.53505	0.688976	10.84607
Carbolux 800-1000	A	3	300	3.10559	0.098425	3.007165
Carbolux 800-1000	A	3	212	0.976043	0.098425	0.877617
Carbolux 800-1000	A	3	150	0.532387	0.098425	0.433962
Carbolux 800-1000	A	3	106	0.443656	0.098425	0.345231
Carbolux 800-1000	A	3	75	0.354925	0.098425	0.256499
Carbolux 800-1000	A	3	56	0.354925	0.098425	0.256499
Carbolux 800-1000	A	3	0	0.354925	0	0.354925
Carbolux 800-1000	A	4	850	26.60903	48.8189	-22.2099
Carbolux 800-1000	A	4	600	53.41018	49.90157	3.508608
Carbolux 800-1000	A	4	425	13.16042	0.688976	12.47145
Carbolux 800-1000	A	4	300	3.554275	0.098425	3.45585
Carbolux 800-1000	A	4	212	1.152738	0.098425	1.054313
Carbolux 800-1000	A	4	150	0.576369	0.098425	0.477944
Carbolux 800-1000	A	4	106	0.480307	0.098425	0.381882
Carbolux 800-1000	A	4	75	0.384246	0.098425	0.285821
Carbolux 800-1000	A	4	56	0.288184	0.098425	0.189759
Carbolux 800-1000	A	4	0	0.384246	0	0.384246
Carbolux 800-1000	A	5	850	23.9925	48.8189	-24.8264

Carbolux 800-1000	A	5	600	51.26523	49.90157	1.363655
Carbolux 800-1000	A	5	425	15.74508	0.688976	15.0561
Carbolux 800-1000	A	5	300	4.686036	0.098425	4.58761
Carbolux 800-1000	A	5	212	1.593252	0.098425	1.494827
Carbolux 800-1000	A	5	150	0.843486	0.098425	0.745061
Carbolux 800-1000	A	5	106	0.656045	0.098425	0.55762
Carbolux 800-1000	A	5	75	0.468604	0.098425	0.370178
Carbolux 800-1000	A	5	56	0.374883	0.098425	0.276458
Carbolux 800-1000	A	5	0	0.374883	0	0.374883
Carbolux 800-1000	A	6	850	22.69767	48.8189	-26.1212
Carbolux 800-1000	A	6	600	52.18605	49.90157	2.284472
Carbolux 800-1000	A	6	425	16.09302	0.688976	15.40405
Carbolux 800-1000	A	6	300	4.930233	0.098425	4.831807
Carbolux 800-1000	A	6	212	1.581395	0.098425	1.48297
Carbolux 800-1000	A	6	150	0.837209	0.098425	0.738784
Carbolux 800-1000	A	6	106	0.651163	0.098425	0.552738
Carbolux 800-1000	A	6	75	0.372093	0.098425	0.273668
Carbolux 800-1000	A	6	56	0.372093	0.098425	0.273668
Carbolux 800-1000	A	6	0	0.27907	0	0.27907
Carbolux 800-1000	A	7	850	23.9925	48.8189	-24.8264
Carbolux 800-1000	A	7	600	51.26523	49.90157	1.363655
Carbolux 800-1000	A	7	425	15.74508	0.688976	15.0561
Carbolux 800-1000	A	7	300	4.686036	0.098425	4.58761
Carbolux 800-1000	A	7	212	1.593252	0.098425	1.494827
Carbolux 800-1000	A	7	150	0.843486	0.098425	0.745061
Carbolux 800-1000	A	7	106	0.656045	0.098425	0.55762
Carbolux 800-1000	A	7	75	0.468604	0.098425	0.370178
Carbolux 800-1000	A	7	56	0.374883	0.098425	0.276458
Carbolux 800-1000	A	7	0	0.374883	0	0.374883
Carbolux 800-1000	A	8	850	22.73144	48.8189	-26.0875
Carbolux 800-1000	A	8	600	51.51237	49.90157	1.610799
Carbolux 800-1000	A	8	425	16.86526	0.688976	16.17628
Carbolux 800-1000	A	8	300	4.949588	0.098425	4.851162
Carbolux 800-1000	A	8	212	1.558203	0.098425	1.459778
Carbolux 800-1000	A	8	150	0.824931	0.098425	0.726506
Carbolux 800-1000	A	8	106	0.549954	0.098425	0.451529
Carbolux 800-1000	A	8	75	0.366636	0.098425	0.268211
Carbolux 800-1000	A	8	56	0.366636	0.098425	0.268211
Carbolux 800-1000	A	8	0	0.274977	0	0.274977
Carbolux 800-1000	A	9	850	21.45594	48.8189	-27.363
Carbolux 800-1000	A	9	600	51.81992	49.90157	1.918349
Carbolux 800-1000	A	9	425	17.14559	0.688976	16.45662
Carbolux 800-1000	A	9	300	5.076628	0.098425	4.978203
Carbolux 800-1000	A	9	212	1.628352	0.098425	1.529927
Carbolux 800-1000	A	9	150	0.862069	0.098425	0.763644
Carbolux 800-1000	A	9	106	0.670498	0.098425	0.572073
Carbolux 800-1000	A	9	75	0.478927	0.098425	0.380502
Carbolux 800-1000	A	9	56	0.383142	0.098425	0.284717
Carbolux 800-1000	A	9	0	0.478927	0	0.478927
Carbolux 800-1000	A	10	850	20.68329	48.8189	-28.1356
Carbolux 800-1000	A	10	600	50.60018	49.90157	0.69861
Carbolux 800-1000	A	10	425	17.9132	0.688976	17.22423

Carbolux 800-1000	A	10	300	5.540166	0.098425	5.441741
Carbolux 800-1000	A	10	212	1.846722	0.098425	1.748297
Carbolux 800-1000	A	10	150	1.015697	0.098425	0.917272
Carbolux 800-1000	A	10	106	0.831025	0.098425	0.7326
Carbolux 800-1000	A	10	75	0.554017	0.098425	0.455591
Carbolux 800-1000	A	10	56	0.554017	0.098425	0.455591
Carbolux 800-1000	A	10	0	0.461681	0	0.461681
Carbolux 800-1000	A	11	850	20.78922	48.8189	-28.0297
Carbolux 800-1000	A	11	600	50.24062	49.90157	0.339041
Carbolux 800-1000	A	11	425	17.90183	0.688976	17.21285
Carbolux 800-1000	A	11	300	5.582291	0.098425	5.483865
Carbolux 800-1000	A	11	212	1.924928	0.098425	1.826503
Carbolux 800-1000	A	11	150	1.154957	0.098425	1.056531
Carbolux 800-1000	A	11	106	0.866218	0.098425	0.767792
Carbolux 800-1000	A	11	75	0.577478	0.098425	0.479053
Carbolux 800-1000	A	11	56	0.481232	0.098425	0.382807
Carbolux 800-1000	A	11	0	0.481232	0	0.481232
Carbolux 800-1000	B	1	850	25.84586	48.8189	-22.973
Carbolux 800-1000	B	1	600	51.50376	49.90157	1.602185
Carbolux 800-1000	B	1	425	14.47368	0.688976	13.78471
Carbolux 800-1000	B	1	300	4.229323	0.098425	4.130898
Carbolux 800-1000	B	1	212	1.409774	0.098425	1.311349
Carbolux 800-1000	B	1	150	0.845865	0.098425	0.747439
Carbolux 800-1000	B	1	106	0.56391	0.098425	0.465485
Carbolux 800-1000	B	1	75	0.37594	0.098425	0.277515
Carbolux 800-1000	B	1	56	0.37594	0.098425	0.277515
Carbolux 800-1000	B	1	0	0.37594	0	0.37594
Carbolux 800-1000	B	2	850	19.41942	48.8189	-29.3995
Carbolux 800-1000	B	2	600	49.84985	49.90157	-0.05172
Carbolux 800-1000	B	2	425	19.01902	0.688976	18.33004
Carbolux 800-1000	B	2	300	6.206206	0.098425	6.107781
Carbolux 800-1000	B	2	212	2.102102	0.098425	2.003677
Carbolux 800-1000	B	2	150	1.101101	0.098425	1.002676
Carbolux 800-1000	B	2	106	0.800801	0.098425	0.702376
Carbolux 800-1000	B	2	75	0.500501	0.098425	0.402075
Carbolux 800-1000	B	2	56	0.500501	0.098425	0.402075
Carbolux 800-1000	B	2	0	0.500501	0	0.500501
Carbolux 800-1000	B	3	850	18.98477	48.8189	-29.8341
Carbolux 800-1000	B	3	600	48.0203	49.90157	-1.88127
Carbolux 800-1000	B	3	425	19.49239	0.688976	18.80341
Carbolux 800-1000	B	3	300	6.80203	0.098425	6.703605
Carbolux 800-1000	B	3	212	2.538071	0.098425	2.439646
Carbolux 800-1000	B	3	150	1.42132	0.098425	1.322895
Carbolux 800-1000	B	3	106	1.015228	0.098425	0.916803
Carbolux 800-1000	B	3	75	0.609137	0.098425	0.510712
Carbolux 800-1000	B	3	56	0.609137	0.098425	0.510712
Carbolux 800-1000	B	3	0	0.507614	0	0.507614
Carbolux 800-1000	B	4	850	15.91949	48.8189	-32.8994
Carbolux 800-1000	B	4	600	46.2946	49.90157	-3.60697
Carbolux 800-1000	B	4	425	22.04941	0.688976	21.36043
Carbolux 800-1000	B	4	300	7.776761	0.098425	7.678336
Carbolux 800-1000	B	4	212	2.836231	0.098425	2.737805

Carbolux 800-1000	B	4	150	1.646844	0.098425	1.548418
Carbolux 800-1000	B	4	106	1.189387	0.098425	1.090962
Carbolux 800-1000	B	4	75	0.73193	0.098425	0.633505
Carbolux 800-1000	B	4	56	0.73193	0.098425	0.633505
Carbolux 800-1000	B	4	0	0.823422	0	0.823422
Carbolux 800-1000	B	5	850	14.58128	48.8189	-34.2376
Carbolux 800-1000	B	5	600	44.63054	49.90157	-5.27103
Carbolux 800-1000	B	5	425	22.36453	0.688976	21.67556
Carbolux 800-1000	B	5	300	8.374384	0.098425	8.275959
Carbolux 800-1000	B	5	212	3.349754	0.098425	3.251328
Carbolux 800-1000	B	5	150	2.068966	0.098425	1.97054
Carbolux 800-1000	B	5	106	1.576355	0.098425	1.477929
Carbolux 800-1000	B	5	75	0.985222	0.098425	0.886796
Carbolux 800-1000	B	5	56	0.985222	0.098425	0.886796
Carbolux 800-1000	B	5	0	1.083744	0	1.083744
Carbolux 800-1000	B	6	850	13.52381	48.8189	-35.2951
Carbolux 800-1000	B	6	600	43.33333	49.90157	-6.56824
Carbolux 800-1000	B	6	425	23.33333	0.688976	22.64436
Carbolux 800-1000	B	6	300	9.238095	0.098425	9.13967
Carbolux 800-1000	B	6	212	3.619048	0.098425	3.520622
Carbolux 800-1000	B	6	150	2.190476	0.098425	2.092051
Carbolux 800-1000	B	6	106	1.619048	0.098425	1.520622
Carbolux 800-1000	B	6	75	0.952381	0.098425	0.853956
Carbolux 800-1000	B	6	56	1.047619	0.098425	0.949194
Carbolux 800-1000	B	6	0	1.142857	0	1.142857
Carbolux 800-1000	B	7	850	12.17547	48.8189	-36.6434
Carbolux 800-1000	B	7	600	41.62936	49.90157	-8.27221
Carbolux 800-1000	B	7	425	24.35094	0.688976	23.66196
Carbolux 800-1000	B	7	300	10.02686	0.098425	9.928432
Carbolux 800-1000	B	7	212	4.118174	0.098425	4.019748
Carbolux 800-1000	B	7	150	2.417189	0.098425	2.318764
Carbolux 800-1000	B	7	106	1.880036	0.098425	1.781611
Carbolux 800-1000	B	7	75	1.074306	0.098425	0.975881
Carbolux 800-1000	B	7	56	1.074306	0.098425	0.975881
Carbolux 800-1000	B	7	0	1.253357	0	1.253357
Carbolux 800-1000	B	8	850	12.93279	48.8189	-35.8861
Carbolux 800-1000	B	8	600	41.54786	49.90157	-8.35371
Carbolux 800-1000	B	8	425	24.13442	0.688976	23.44544
Carbolux 800-1000	B	8	300	9.674134	0.098425	9.575709
Carbolux 800-1000	B	8	212	3.869654	0.098425	3.771229
Carbolux 800-1000	B	8	150	2.443992	0.098425	2.345567
Carbolux 800-1000	B	8	106	1.934827	0.098425	1.836402
Carbolux 800-1000	B	8	75	1.221996	0.098425	1.123571
Carbolux 800-1000	B	8	56	1.120163	0.098425	1.021738
Carbolux 800-1000	B	8	0	1.120163	0	1.120163
Carbolux 800-1000	B	9	850	12.68462	48.8189	-36.1343
Carbolux 800-1000	B	9	600	43.78801	49.90157	-6.11356
Carbolux 800-1000	B	9	425	23.54474	0.688976	22.85577
Carbolux 800-1000	B	9	300	9.209383	0.098425	9.110958
Carbolux 800-1000	B	9	212	3.649001	0.098425	3.550576
Carbolux 800-1000	B	9	150	2.172024	0.098425	2.073599
Carbolux 800-1000	B	9	106	1.650738	0.098425	1.552313

Carbolux 800-1000	B	9	75	1.042572	0.098425	0.944146
Carbolux 800-1000	B	9	56	1.042572	0.098425	0.944146
Carbolux 800-1000	B	9	0	1.216334	0	1.216334
Carbolux 800-1000	B	10	850	9.893048	48.8189	-38.9258
Carbolux 800-1000	B	10	600	38.32442	49.90157	-11.5772
Carbolux 800-1000	B	10	425	25.75758	0.688976	25.0686
Carbolux 800-1000	B	10	300	11.4082	0.098425	11.30977
Carbolux 800-1000	B	10	212	4.812834	0.098425	4.714409
Carbolux 800-1000	B	10	150	2.941176	0.098425	2.842751
Carbolux 800-1000	B	10	106	2.317291	0.098425	2.218865
Carbolux 800-1000	B	10	75	1.426025	0.098425	1.3276
Carbolux 800-1000	B	10	56	1.336898	0.098425	1.238473
Carbolux 800-1000	B	10	0	1.782531	0	1.782531
Carbolux 800-1000	B	11	850	11.59963	48.8189	-37.2193
Carbolux 800-1000	B	11	600	41.72123	49.90157	-8.18034
Carbolux 800-1000	B	11	425	23.66698	0.688976	22.978
Carbolux 800-1000	B	11	300	9.728718	0.098425	9.630293
Carbolux 800-1000	B	11	212	4.022451	0.098425	3.924026
Carbolux 800-1000	B	11	150	2.525725	0.098425	2.4273
Carbolux 800-1000	B	11	106	2.057998	0.098425	1.959573
Carbolux 800-1000	B	11	75	1.309635	0.098425	1.21121
Carbolux 800-1000	B	11	56	1.309635	0.098425	1.21121
Carbolux 800-1000	B	11	0	2.057998	0	2.057998
Carbolux 800-1000	C	1	850	42.12921	48.8189	-6.68969
Carbolux 800-1000	C	1	600	49.9545	49.90157	0.052929
Carbolux 800-1000	C	1	425	5.186533	0.688976	4.497557
Carbolux 800-1000	C	1	300	1.273885	0.098425	1.17546
Carbolux 800-1000	C	1	212	0.454959	0.098425	0.356534
Carbolux 800-1000	C	1	150	0.272975	0.098425	0.17455
Carbolux 800-1000	C	1	106	0.181984	0.098425	0.083558
Carbolux 800-1000	C	1	75	0.136488	0.098425	0.038063
Carbolux 800-1000	C	1	56	0.136488	0.098425	0.038063
Carbolux 800-1000	C	1	0	0.272975	0	0.272975
Carbolux 800-1000	C	2	850	38.59649	48.8189	-10.2224
Carbolux 800-1000	C	2	600	50.07974	49.90157	0.17817
Carbolux 800-1000	C	2	425	7.416268	0.688976	6.727292
Carbolux 800-1000	C	2	300	2.073365	0.098425	1.97494
Carbolux 800-1000	C	2	212	0.637959	0.098425	0.539533
Carbolux 800-1000	C	2	150	0.318979	0.098425	0.220554
Carbolux 800-1000	C	2	106	0.239234	0.098425	0.140809
Carbolux 800-1000	C	2	75	0.199362	0.098425	0.100937
Carbolux 800-1000	C	2	56	0.199362	0.098425	0.100937
Carbolux 800-1000	C	2	0	0.239234	0	0.239234
Carbolux 800-1000	C	3	850	36.07706	48.8189	-12.7418
Carbolux 800-1000	C	3	600	50.43783	49.90157	0.536254
Carbolux 800-1000	C	3	425	8.756567	0.688976	8.067591
Carbolux 800-1000	C	3	300	2.451839	0.098425	2.353414
Carbolux 800-1000	C	3	212	0.788091	0.098425	0.689666
Carbolux 800-1000	C	3	150	0.437828	0.098425	0.339403
Carbolux 800-1000	C	3	106	0.350263	0.098425	0.251838
Carbolux 800-1000	C	3	75	0.218914	0.098425	0.120489
Carbolux 800-1000	C	3	56	0.218914	0.098425	0.120489

Carbolux 800-1000	C	3	0	0.262697	0	0.262697
Carbolux 800-1000	C	4	850	33.24492	48.8189	-15.574
Carbolux 800-1000	C	4	600	51.19363	49.90157	1.292059
Carbolux 800-1000	C	4	425	10.16799	0.688976	9.479017
Carbolux 800-1000	C	4	300	2.917772	0.098425	2.819347
Carbolux 800-1000	C	4	212	0.884173	0.098425	0.785748
Carbolux 800-1000	C	4	150	0.530504	0.098425	0.432079
Carbolux 800-1000	C	4	106	0.353669	0.098425	0.255244
Carbolux 800-1000	C	4	75	0.221043	0.098425	0.122618
Carbolux 800-1000	C	4	56	0.221043	0.098425	0.122618
Carbolux 800-1000	C	4	0	0.265252	0	0.265252
Carbolux 800-1000	C	5	850	32.45694	48.8189	-16.362
Carbolux 800-1000	C	5	600	50.49864	49.90157	0.597065
Carbolux 800-1000	C	5	425	10.78876	0.688976	10.09978
Carbolux 800-1000	C	5	300	3.263826	0.098425	3.165401
Carbolux 800-1000	C	5	212	1.087942	0.098425	0.989517
Carbolux 800-1000	C	5	150	0.634633	0.098425	0.536208
Carbolux 800-1000	C	5	106	0.453309	0.098425	0.354884
Carbolux 800-1000	C	5	75	0.271985	0.098425	0.17356
Carbolux 800-1000	C	5	56	0.271985	0.098425	0.17356
Carbolux 800-1000	C	5	0	0.271985	0	0.271985
Carbolux 800-1000	C	6	850	32.493	48.8189	-16.3259
Carbolux 800-1000	C	6	600	50.42017	49.90157	0.518593
Carbolux 800-1000	C	6	425	11.11111	0.688976	10.42213
Carbolux 800-1000	C	6	300	3.267974	0.098425	3.169549
Carbolux 800-1000	C	6	212	1.027077	0.098425	0.928652
Carbolux 800-1000	C	6	150	0.560224	0.098425	0.461799
Carbolux 800-1000	C	6	106	0.373483	0.098425	0.275058
Carbolux 800-1000	C	6	75	0.233427	0.098425	0.135002
Carbolux 800-1000	C	6	56	0.233427	0.098425	0.135002
Carbolux 800-1000	C	6	0	0.280112	0	0.280112
Carbolux 800-1000	C	7	850	31.11566	48.8189	-17.7032
Carbolux 800-1000	C	7	600	50.35824	49.90157	0.456665
Carbolux 800-1000	C	7	425	11.87308	0.688976	11.1841
Carbolux 800-1000	C	7	300	3.480041	0.098425	3.381616
Carbolux 800-1000	C	7	212	1.22825	0.098425	1.129825
Carbolux 800-1000	C	7	150	0.614125	0.098425	0.5157
Carbolux 800-1000	C	7	106	0.409417	0.098425	0.310991
Carbolux 800-1000	C	7	75	0.307062	0.098425	0.208637
Carbolux 800-1000	C	7	56	0.307062	0.098425	0.208637
Carbolux 800-1000	C	7	0	0.307062	0	0.307062
Carbolux 800-1000	C	8	850	29.79943	48.8189	-19.0195
Carbolux 800-1000	C	8	600	50.23878	49.90157	0.337203
Carbolux 800-1000	C	8	425	12.70296	0.688976	12.01398
Carbolux 800-1000	C	8	300	3.820439	0.098425	3.722014
Carbolux 800-1000	C	8	212	1.337154	0.098425	1.238729
Carbolux 800-1000	C	8	150	0.764088	0.098425	0.665663
Carbolux 800-1000	C	8	106	0.477555	0.098425	0.37913
Carbolux 800-1000	C	8	75	0.286533	0.098425	0.188108
Carbolux 800-1000	C	8	56	0.286533	0.098425	0.188108
Carbolux 800-1000	C	8	0	0.286533	0	0.286533
Carbolux 800-1000	C	9	850	28.94737	48.8189	-19.8715

Carbolux 800-1000	C	9	600	49.57895	49.90157	-0.32263
Carbolux 800-1000	C	9	425	13.26316	0.688976	12.57418
Carbolux 800-1000	C	9	300	4.105263	0.098425	4.006838
Carbolux 800-1000	C	9	212	1.473684	0.098425	1.375259
Carbolux 800-1000	C	9	150	0.842105	0.098425	0.74368
Carbolux 800-1000	C	9	106	0.631579	0.098425	0.533154
Carbolux 800-1000	C	9	75	0.368421	0.098425	0.269996
Carbolux 800-1000	C	9	56	0.368421	0.098425	0.269996
Carbolux 800-1000	C	9	0	0.421053	0	0.421053
Carbolux 800-1000	C	10	850	27.77223	48.8189	-21.0467
Carbolux 800-1000	C	10	600	49.55045	49.90157	-0.35113
Carbolux 800-1000	C	10	425	13.78621	0.688976	13.09724
Carbolux 800-1000	C	10	300	4.395604	0.098425	4.297179
Carbolux 800-1000	C	10	212	1.598402	0.098425	1.499976
Carbolux 800-1000	C	10	150	0.899101	0.098425	0.800676
Carbolux 800-1000	C	10	106	0.699301	0.098425	0.600876
Carbolux 800-1000	C	10	75	0.3996	0.098425	0.301175
Carbolux 800-1000	C	10	56	0.3996	0.098425	0.301175
Carbolux 800-1000	C	10	0	0.4995	0	0.4995
Carbolux 800-1000	C	11	850	28.63555	48.8189	-20.1834
Carbolux 800-1000	C	11	600	49.7307	49.90157	-0.17087
Carbolux 800-1000	C	11	425	13.55476	0.688976	12.86578
Carbolux 800-1000	C	11	300	4.219031	0.098425	4.120605
Carbolux 800-1000	C	11	212	1.526032	0.098425	1.427607
Carbolux 800-1000	C	11	150	0.807899	0.098425	0.709474
Carbolux 800-1000	C	11	106	0.628366	0.098425	0.529941
Carbolux 800-1000	C	11	75	0.2693	0.098425	0.170875
Carbolux 800-1000	C	11	56	0.2693	0.098425	0.170875
Carbolux 800-1000	C	11	0	0.359066	0	0.359066

O.1.2 Adipic Acid

Batch	Cycle	Sieve	Cumulative	% ret	Virgin	Deviation
B	Virgin	850	99.8	0.2	0	
B	Virgin	600	97.9	1.9	0	
B	Virgin	425	88.9	9	0	
B	Virgin	300	70.2	18.7	0	
B	Virgin	212	39	31.2	0	
B	Virgin	150	20.1	18.9	0	
B	Virgin	106	5	15.1	0	
B	Virgin	75	0.9	4.1	0	
B	Virgin	56	0	0.9	0	
B	Virgin	0	0	0	0	
B	1	850	99.8	0.2	0.2	0
B	1	600	99.5	0.3	1.9	-1.6
B	1	425	91.1	8.4	9	-0.6
B	1	300	75.7	15.4	18.7	-3.3
B	1	212	54.1	21.6	31.2	-9.6
B	1	150	30.3	23.8	18.9	4.9
B	1	106	12.9	17.4	15.1	2.3
B	1	75	3.1	9.8	4.1	5.7
B	1	56	0.2	2.9	0.9	2
B	1	0	0	0.2	0	0.2
B	2	850	99.8	0.2	0.2	0
B	2	600	98.6	1.2	1.9	-0.7
B	2	425	90.4	8.2	9	-0.8
B	2	300	80.7	9.7	18.7	-9
B	2	212	57.9	22.8	31.2	-8.4
B	2	150	32.9	25	18.9	6.1
B	2	106	13.9	19	15.1	3.9
B	2	75	4.3	9.6	4.1	5.5
B	2	56	0.3	4	0.9	3.1
B	2	0	0	0.3	0	0.3
B	3	850	99.9	0.1	0.2	-0.1
B	3	600	98.8	1.1	1.9	-0.8
B	3	425	93.3	5.5	9	-3.5
B	3	300	83.6	9.7	18.7	-9
B	3	212	61.7	21.9	31.2	-9.3
B	3	150	37.6	24.1	18.9	5.2
B	3	106	17.1	20.5	15.1	5.4
B	3	75	5.5	11.6	4.1	7.5
B	3	56	0.3	5.2	0.9	4.3
B	3	0	0	0.3	0	0.3
B	4	850	99.9	0.1	0.2	-0.1
B	4	600	98.6	1.3	1.9	-0.6
B	4	425	93.8	4.8	9	-4.2
B	4	300	85.5	8.3	18.7	-10.4
B	4	212	64.9	20.6	31.2	-10.6
B	4	150	40.2	24.7	18.9	5.8
B	4	106	19.1	21.1	15.1	6
B	4	75	6.6	12.5	4.1	8.4
B	4	56	0.4	6.2	0.9	5.3
B	4	0	0	0.4	0	0.4
C	Virgin	850	99.8	0.2		

C	Virgin	600	98	1.8		
C	Virgin	425	87.3	10.7		
C	Virgin	300	69.2	18.1		
C	Virgin	212	37.2	32		
C	Virgin	150	16.2	21		
C	Virgin	106	4.2	12		
C	Virgin	75	0.5	3.7		
C	Virgin	56	0	0.5		
C	Virgin	0	0	0		
C	1	850	99.9	0.1	0.2	-0.1
C	1	600	98.4	1.5	1.8	-0.3
C	1	425	91.6	6.8	10.7	-3.9
C	1	300	76.6	15	18.1	-3.1
C	1	212	51.2	25.4	32	-6.6
C	1	150	32.3	18.9	21	-2.1
C	1	106	12.1	20.2	12	8.2
C	1	75	0.4	11.7	3.7	8
C	1	56	0	0.4	0.5	-0.1
C	1	0	0	0	0	0
C	2	850	99.9	0.1	0.2	-0.1
C	2	600	99	0.9	1.8	-0.9
C	2	425	93	6	10.7	-4.7
C	2	300	83.3	9.7	18.1	-8.4
C	2	212	61	22.3	32	-9.7
C	2	150	39.3	21.7	21	0.7
C	2	106	17.8	21.5	12	9.5
C	2	75	1.5	16.3	3.7	12.6
C	2	56	0	1.5	0.5	1
C	2	0	0	0	0	0
C	3	850	100	0	0.2	-0.2
C	3	600	98.7	1.3	1.8	-0.5
C	3	425	94.3	4.4	10.7	-6.3
C	3	300	85.9	8.4	18.1	-9.7
C	3	212	66.8	19.1	32	-12.9
C	3	150	43.6	23.2	21	2.2
C	3	106	22.9	20.7	12	8.7
C	3	75	3	19.9	3.7	16.2
C	3	56	0	3	0.5	2.5
C	3	0	0	0	0	0
C	4	850	99.8	0.2	0.2	0
C	4	600	99.1	0.7	1.8	-1.1
C	4	425	94.9	4.2	10.7	-6.5
C	4	300	86.6	8.3	18.1	-9.8
C	4	212	67.6	19	32	-13
C	4	150	47.1	20.5	21	-0.5
C	4	106	23.8	23.3	12	11.3
C	4	75	5	18.8	3.7	15.1
C	4	56	0.5	4.5	0.5	4
C	4	0	0	0.5	0	0.5
D	Virgin	850	99.8	0.2		
D	Virgin	600	97.9	1.9		
D	Virgin	425	89.3	8.6		

D	Virgin	300	67.1	22.2			
D	Virgin	212	37.4	29.7			
D	Virgin	150	20.8	16.6			
D	Virgin	106	5	15.8			
D	Virgin	75	0.9	4.1			
D	Virgin	56	0	0.9			
D	Virgin	0	0	0			
D	1	850	99.8	0.2	0.2	0	
D	1	600	98.6	1.2	1.9	-0.7	
D	1	425	92.1	6.5	8.6	-2.1	
D	1	300	78.8	13.3	22.2	-8.9	
D	1	212	57.9	20.9	29.7	-8.8	
D	1	150	35.8	22.1	16.6	5.5	
D	1	106	15.8	20	15.8	4.2	
D	1	75	2.6	13.2	4.1	9.1	
D	1	56	0.1	2.5	0.9	1.6	
D	1	0	0	0.1	0	0.1	
D	2	850	99.9	0.1	0.2	-0.1	
D	2	600	99.1	0.8	1.9	-1.1	
D	2	425	93.1	6	8.6	-2.6	
D	2	300	82.2	10.9	22.2	-11.3	
D	2	212	62.3	19.9	29.7	-9.8	
D	2	150	41.8	20.5	16.6	3.9	
D	2	106	19.7	22.1	15.8	6.3	
D	2	75	5	14.7	4.1	10.6	
D	2	56	0.2	4.8	0.9	3.9	
D	2	0	0	0.2	0	0.2	
D	3	850	99.8	0.2	0.2	0	
D	3	600	99	0.8	1.9	-1.1	
D	3	425	94.9	4.1	8.6	-4.5	
D	3	300	86.5	8.4	22.2	-13.8	
D	3	212	69	17.5	29.7	-12.2	
D	3	150	45.8	23.2	16.6	6.6	
D	3	106	24.2	21.6	15.8	5.8	
D	3	75	6.7	17.5	4.1	13.4	
D	3	56	0.2	6.5	0.9	5.6	
D	3	0	0	0.2	0	0.2	
D	4	850	100	0	0.2	-0.2	
D	4	600	99.2	0.8	1.9	-1.1	
D	4	425	95	4.2	8.6	-4.4	
D	4	300	88.7	6.3	22.2	-15.9	
D	4	212	72.6	16.1	29.7	-13.6	
D	4	150	50	22.6	16.6	6	
D	4	106	27.8	22.2	15.8	6.4	
D	4	75	7.9	19.9	4.1	15.8	
D	4	56	0.2	7.7	0.9	6.8	
D	4	0	0	0.2	0	0.2	
E	Virgin	850	99.8	0.2			
E	Virgin	600	98.3	1.5			
E	Virgin	425	89.4	8.9			
E	Virgin	300	69.6	19.8			
E	Virgin	212	39.2	30.4			

E	Virgin	150	19.7	19.5		
E	Virgin	106	5.5	14.2		
E	Virgin	75	0.6	4.9		
E	Virgin	56	0	0.6		
E	Virgin	0	0	0		
E	1	850	99.9	0.1	0.2	-0.1
E	1	600	98.4	1.5	1.5	0
E	1	425	89.9	8.5	8.9	-0.4
E	1	300	72.8	17.1	19.8	-2.7
E	1	212	50.3	22.5	30.4	-7.9
E	1	150	29	21.3	19.5	1.8
E	1	106	11.7	17.3	14.2	3.1
E	1	75	1.6	10.1	4.9	5.2
E	1	56	0.1	1.5	0.6	0.9
E	1	0	0	0.1	0	0.1
E	2	850	99.8	0.2	0.2	0
E	2	600	98.4	1.4	1.5	-0.1
E	2	425	92.9	5.5	8.9	-3.4
E	2	300	83.7	9.2	19.8	-10.6
E	2	212	60	23.7	30.4	-6.7
E	2	150	36.9	23.1	19.5	3.6
E	2	106	17.7	19.2	14.2	5
E	2	75	4.1	13.6	4.9	8.7
E	2	56	0.31	3.79	0.6	3.19
E	2	0	0	0.31	0	0.31
E	3	850	100	0	0.2	-0.2
E	3	600	99	1	1.5	-0.5
E	3	425	93.8	5.2	8.9	-3.7
E	3	300	85.4	8.4	19.8	-11.4
E	3	212	63.5	21.9	30.4	-8.5
E	3	150	39.6	23.9	19.5	4.4
E	3	106	19.4	20.2	14.2	6
E	3	75	5.8	13.6	4.9	8.7
E	3	56	0.2	5.6	0.6	5
E	3	0	0	0.2	0	0.2
E	4	850	99.8	0.2	0.2	0
E	4	600	99.1	0.7	1.5	-0.8
E	4	425	94.5	4.6	8.9	-4.3
E	4	300	87.1	7.4	19.8	-12.4
E	4	212	67.7	19.4	30.4	-11
E	4	150	43.7	24	19.5	4.5
E	4	106	23.4	20.3	14.2	6.1
E	4	75	7.3	16.1	4.9	11.2
E	4	56	0.1	7.2	0.6	6.6
E	4	0	0	0.1	0	0.1
E	5	850	100	0	0.2	-0.2
E	5	600	99.1	0.9	1.5	-0.6
E	5	425	95.2	3.9	8.9	-5
E	5	300	88.3	6.9	19.8	-12.9
E	5	212	70.5	17.8	30.4	-12.6
E	5	150	47.6	22.9	19.5	3.4
E	5	106	25.8	21.8	14.2	7.6

E	5	75	6	19.8	4.9	14.9
E	5	56	0.2	5.8	0.6	5.2
E	5	0	0	0.2	0	0.2
E	6	850	100	0	0.2	-0.2
E	6	600	99.4	0.6	1.5	-0.9
E	6	425	95.8	3.6	8.9	-5.3
E	6	300	89.7	6.1	19.8	-13.7
E	6	212	71.8	17.9	30.4	-12.5
E	6	150	49.3	22.5	19.5	3
E	6	106	26.7	22.6	14.2	8.4
E	6	75	5.9	20.8	4.9	15.9
E	6	56	0.19	5.71	0.6	5.11
E	6	0	0	0.19	0	0.19
F	Virgin	850	99.8	0.2		
F	Virgin	600	98.3	1.5		
F	Virgin	425	85.4	12.9		
F	Virgin	300	65.7	19.7		
F	Virgin	212	33.3	32.4		
F	Virgin	150	13.1	20.2		
F	Virgin	106	4	9.1		
F	Virgin	75	0.3	3.7		
F	Virgin	56	0	0.3		
F	Virgin	0	0	0		
F	1	850	99.9	0.1	0.2	-0.1
F	1	600	98.6	1.3	1.5	-0.2
F	1	425	89.5	9.1	12.9	-3.8
F	1	300	72	17.5	19.7	-2.2
F	1	212	45.5	26.5	32.4	-5.9
F	1	150	23.6	21.9	20.2	1.7
F	1	106	8.2	15.4	9.1	6.3
F	1	75	0.4	7.8	3.7	4.1
F	1	56	0.2	0.2	0.3	-0.1
F	1	0	0	0.2	0	0.2
F	2	850	99.9	0.1	0.2	-0.1
F	2	600	98.7	1.2	1.5	-0.3
F	2	425	93.1	5.6	12.9	-7.3
F	2	300	82.3	10.8	19.7	-8.9
F	2	212	57.6	24.7	32.4	-7.7
F	2	150	32.8	24.8	20.2	4.6
F	2	106	13.8	19	9.1	9.9
F	2	75	2.5	11.3	3.7	7.6
F	2	56	0.44	2.06	0.3	1.76
F	2	0	0	0.44	0	0.44
F	3	850	99.9	0.1	0.2	-0.1
F	3	600	99.1	0.8	1.5	-0.7
F	3	425	94	5.1	12.9	-7.8
F	3	300	83	11	19.7	-8.7
F	3	212	60.6	22.4	32.4	-10
F	3	150	37.6	23	20.2	2.8
F	3	106	17.1	20.5	9.1	11.4
F	3	75	2.7	14.4	3.7	10.7
F	3	56	0.1	2.6	0.3	2.3

F	3	0	0	0.1	0	0.1
F	4	850	100	0	0.2	-0.2
F	4	600	99.5	0.5	1.5	-1
F	4	425	95.9	3.6	12.9	-9.3
F	4	300	87.9	8	19.7	-11.7
F	4	212	66.4	21.5	32.4	-10.9
F	4	150	42.2	24.2	20.2	4
F	4	106	19.5	22.7	9.1	13.6
F	4	75	3.7	15.8	3.7	12.1
F	4	56	0.1	3.6	0.3	3.3
F	4	0	0	0.1	0	0.1
F	5	850	100	0	0.2	-0.2
F	5	600	99.5	0.5	1.5	-1
F	5	425	95.9	3.6	12.9	-9.3
F	5	300	88.4	7.5	19.7	-12.2
F	5	212	68.8	19.6	32.4	-12.8
F	5	150	44.5	24.3	20.2	4.1
F	5	106	21.3	23.2	9.1	14.1
F	5	75	4.5	16.8	3.7	13.1
F	5	56	0.2	4.3	0.3	4
F	5	0	0	0.2	0	0.2

O.2 External Industrial Scale Pneumatic Conveying System

O.2.1 Carbolux Type C

Pipe Dia (mm)	Bypass vent revs open	Solids Mass feed Rate (kg/s)	Conveying Pressure Drop (mbar)	SLR	Start Air (Velocity)	End Air (Velocity)	Sieve (um)	% Mass Retained	Virgin	Change
47	3.25	0.1	120	2.230897936	22.44477111	25.55849659	1000	9.230584468	3.830204737	5.40037973
47	3.25	0.1	120	2.230897936	22.44477111	25.55849659	700	83.83570857	90.35554065	-6.519832078
47	3.25	0.1	120	2.230897936	22.44477111	25.55849659	500	5.881345076	5.454030195	0.427314881
47	3.25	0.1	120	2.230897936	22.44477111	25.55849659	355	0.617213771	0.266667325	0.350546446
47	3.25	0.1	120	2.230897936	22.44477111	25.55849659	0	0.435148118	0.093224615	0.341923504
47	3.25	0.15625	140	3.583259014	21.83417097	25.45166675	1000	8.755430862	3.830204737	4.925226124
47	3.25	0.15625	140	3.583259014	21.83417097	25.45166675	700	83.97306613	90.35554065	-6.382474513
47	3.25	0.15625	140	3.583259014	21.83417097	25.45166675	500	6.403046092	5.454030195	0.949015897
47	3.25	0.15625	140	3.583259014	21.83417097	25.45166675	355	0.507895792	0.266667325	0.241228467
47	3.25	0.15625	140	3.583259014	21.83417097	25.45166675	0	0.360561122	0.093224615	0.267336507
47	3	0.3125	205	7.882981519	19.8497205	25.06663422	1000	9.121219414	3.830204737	5.291014677
47	3	0.3125	205	7.882981519	19.8497205	25.06663422	700	84.8654633	90.35554065	-5.490077348
47	3	0.3125	205	7.882981519	19.8497205	25.06663422	500	5.436903329	5.454030195	-0.017126866
47	3	0.3125	205	7.882981519	19.8497205	25.06663422	355	0.305415162	0.266667325	0.038747837
47	3	0.3125	205	7.882981519	19.8497205	25.06663422	0	0.270998797	0.093224615	0.177774182
47	3	0.333333333	220	8.607086501	19.39177039	24.96848868	1000	8.871702638	3.830204737	5.041497901
47	3	0.333333333	220	8.607086501	19.39177039	24.96848868	700	85.17553957	90.35554065	-5.180001077
47	3	0.333333333	220	8.607086501	19.39177039	24.96848868	500	5.316866507	5.454030195	-0.137163689
47	3	0.333333333	220	8.607086501	19.39177039	24.96848868	355	0.367945643	0.266667325	0.101278318
47	3	0.333333333	220	8.607086501	19.39177039	24.96848868	0	0.267945643	0.093224615	0.174721029
47	2.75	0.403225806	265	11.20568851	18.01792007	24.64951565	1000	9.429178136	3.830204737	5.598973399
47	2.75	0.403225806	265	11.20568851	18.01792007	24.64951565	700	84.5812033	90.35554065	-5.774337342
47	2.75	0.403225806	265	11.20568851	18.01792007	24.64951565	500	5.430043256	5.454030195	-0.023986939
47	2.75	0.403225806	265	11.20568851	18.01792007	24.64951565	355	0.295635077	0.266667325	0.028967752
47	2.75	0.403225806	265	11.20568851	18.01792007	24.64951565	0	0.263940228	0.093224615	0.170715613
47	2.75	0.416666667	265	11.57921146	18.01792007	24.64951565	1000	9.297006472	3.830204737	5.466801735
47	2.75	0.416666667	265	11.57921146	18.01792007	24.64951565	700	85.79797735	90.35554065	-4.557563299
47	2.75	0.416666667	265	11.57921146	18.01792007	24.64951565	500	4.396116505	5.454030195	-1.05791369
47	2.75	0.416666667	265	11.57921146	18.01792007	24.64951565	355	0.278802589	0.266667325	0.012135264
47	2.75	0.416666667	265	11.57921146	18.01792007	24.64951565	0	0.230097087	0.093224615	0.136872472
47	4	0.211864407	190	4.183070889	25.44555062	31.52687718	1000	6.946187625	3.830204737	3.115988287
47	4	0.211864407	190	4.183070889	25.44555062	31.52687718	700	83.2106986	90.35554065	-7.144842042
47	4	0.211864407	190	4.183070889	25.44555062	31.52687718	500	8.388263473	5.454030195	2.934233278
47	4	0.211864407	190	4.183070889	25.44555062	31.52687718	355	0.781397206	0.266667325	0.514729881
47	4	0.211864407	190	4.183070889	25.44555062	31.52687718	0	0.673453094	0.093224615	0.580228479

47	4	0.219298246	200	4.396467585	25.05995911	31.44466207	1000	8.49964314	3.830204737	4.669438403
47	4	0.219298246	200	4.396467585	25.05995911	31.44466207	700	82.93057098	90.35554065	-7.42496967
47	4	0.219298246	200	4.396467585	25.05995911	31.44466207	500	7.483663759	5.454030195	2.029633564
47	4	0.219298246	200	4.396467585	25.05995911	31.44466207	355	0.723869944	0.266667325	0.457202619
47	4	0.219298246	200	4.396467585	25.05995911	31.44466207	0	0.362252181	0.093224615	0.269027566
47	3.75	0.263157895	230	5.531077125	23.90318459	31.18494943	1000	9.803106332	3.830204737	5.972901595
47	3.75	0.263157895	230	5.531077125	23.90318459	31.18494943	700	83.11827957	90.35554065	-7.2327261075
47	3.75	0.263157895	230	5.531077125	23.90318459	31.18494943	500	5.97913182	5.454030195	0.525101625
47	3.75	0.263157895	230	5.531077125	23.90318459	31.18494943	355	0.672361609	0.266667325	0.405694284
47	3.75	0.263157895	230	5.531077125	23.90318459	31.18494943	0	0.427120669	0.093224615	0.333896054
47	3.75	0.268817204	230	5.65002502	23.90318459	31.18494943	1000	8.962074554	3.830204737	5.131869817
47	3.75	0.268817204	230	5.65002502	23.90318459	31.18494943	700	82.18419773	90.35554065	-8.171342914
47	3.75	0.268817204	230	5.65002502	23.90318459	31.18494943	500	7.679335494	5.454030195	2.225305299
47	3.75	0.268817204	230	5.65002502	23.90318459	31.18494943	355	0.681361426	0.266667325	0.414694101
47	3.75	0.268817204	230	5.65002502	23.90318459	31.18494943	0	0.493030794	0.093224615	0.399806179
47	3.5	0.328947368	250	7.144342713	23.13200157	31.00002932	1000	8.784767167	3.830204737	4.954562429
47	3.5	0.328947368	250	7.144342713	23.13200157	31.00002932	700	83.60276243	90.35554065	-6.752778214
47	3.5	0.328947368	250	7.144342713	23.13200157	31.00002932	500	6.664246251	5.454030195	1.210216056
47	3.5	0.328947368	250	7.144342713	23.13200157	31.00002932	355	0.57355959	0.266667325	0.306892265
47	3.5	0.328947368	250	7.144342713	23.13200157	31.00002932	0	0.374664562	0.093224615	0.281439947
47	3.5	0.333333333	260	7.362324531	22.74641007	30.90374333	1000	10.01799762	3.830204737	6.187792879
47	3.5	0.333333333	260	7.362324531	22.74641007	30.90374333	700	83.53543901	90.35554065	-6.82010163
47	3.5	0.333333333	260	7.362324531	22.74641007	30.90374333	500	5.516885181	5.454030195	0.062854985
47	3.5	0.333333333	260	7.362324531	22.74641007	30.90374333	355	0.527771156	0.266667325	0.261103831
47	3.5	0.333333333	260	7.362324531	22.74641007	30.90374333	0	0.401907032	0.093224615	0.308682417
47	3.25	0.373134328	265	8.311858339	22.55361431	30.85459736	1000	7.85244587	3.830204737	4.0222441133
47	3.25	0.373134328	265	8.311858339	22.55361431	30.85459736	700	84.5521251	90.35554065	-5.803415545
47	3.25	0.373134328	265	8.311858339	22.55361431	30.85459736	500	6.5478749	5.454030195	1.093844704
47	3.25	0.373134328	265	8.311858339	22.55361431	30.85459736	355	0.601042502	0.266667325	0.334375177
47	3.25	0.373134328	265	8.311858339	22.55361431	30.85459736	0	0.446511628	0.093224615	0.353287013
47	3.25	0.357142857	265	7.955635839	22.55361431	30.85459736	1000	8.33987976	3.830204737	4.509675022
47	3.25	0.357142857	265	7.955635839	22.55361431	30.85459736	700	84.2953507	90.35554065	-6.060189944
47	3.25	0.357142857	265	7.955635839	22.55361431	30.85459736	500	6.346092184	5.454030195	0.892061989
47	3.25	0.357142857	265	7.955635839	22.55361431	30.85459736	355	0.63002004	0.266667325	0.363352715
47	3.25	0.357142857	265	7.955635839	22.55361431	30.85459736	0	0.388657315	0.093224615	0.2954327
47	4.75	0.265957447	290	4.863765391	27.4718947	38.93498745	1000	7.326607717	3.830204737	3.49640298

47	4.75	0.265957447	4.863765391	290	4.863765391	27.4718947	38.93498745	700	81.01844855	90.35554065	-9.337092092
47	4.75	0.265957447	4.863765391	290	4.863765391	27.4718947	38.93498745	500	9.338223473	5.454030195	3.884193277
47	4.75	0.265957447	4.863765391	290	4.863765391	27.4718947	38.93498745	355	1.333762058	0.266667325	1.067094733
47	4.75	0.265957447	4.863765391	290	4.863765391	27.4718947	38.93498745	0	0.982958199	0.093224615	0.889733584
47	4.75	0.245098039	4.482293356	290	4.482293356	27.4718947	38.93498745	1000	6.734789579	3.830204737	2.904584842
47	4.75	0.245098039	4.482293356	290	4.482293356	27.4718947	38.93498745	700	81.72757515	90.35554065	-8.627965495
47	4.75	0.245098039	4.482293356	290	4.482293356	27.4718947	38.93498745	500	9.400280561	5.454030195	3.946250366
47	4.75	0.245098039	4.482293356	290	4.482293356	27.4718947	38.93498745	355	1.294589178	0.266667325	1.027921853
47	4.75	0.245098039	4.482293356	290	4.482293356	27.4718947	38.93498745	0	0.842765531	0.093224615	0.749540916
47	5	0.161290323	2.756248837	250	2.756248837	29.39943357	39.39924091	1000	6.994461014	3.830204737	3.164256277
47	5	0.161290323	2.756248837	250	2.756248837	29.39943357	39.39924091	700	80.82846187	90.35554065	-9.527078779
47	5	0.161290323	2.756248837	250	2.756248837	29.39943357	39.39924091	500	9.65432467	5.454030195	4.200294474
47	5	0.161290323	2.756248837	250	2.756248837	29.39943357	39.39924091	355	1.534341713	0.266667325	1.267674388
47	5	0.161290323	2.756248837	250	2.756248837	29.39943357	39.39924091	0	0.988410737	0.093224615	0.895186122
47	5	0.15625	2.670116061	250	2.670116061	29.39943357	39.39924091	1000	7.713890936	3.830204737	3.883686199
47	5	0.15625	2.670116061	250	2.670116061	29.39943357	39.39924091	700	78.63743552	90.35554065	-11.71810513
47	5	0.15625	2.670116061	250	2.670116061	29.39943357	39.39924091	500	10.96090641	5.454030195	5.506876216
47	5	0.15625	2.670116061	250	2.670116061	29.39943357	39.39924091	355	1.715770081	0.266667325	1.449102756
47	5	0.15625	2.670116061	250	2.670116061	29.39943357	39.39924091	0	0.971997052	0.093224615	0.878772437
47	4.5	0.333333333	6.375501075	315	6.375501075	26.35498896	38.74576736	1000	8.002004008	3.830204737	4.17199271
47	4.5	0.333333333	6.375501075	315	6.375501075	26.35498896	38.74576736	700	80.68400802	90.35554065	-9.671532629
47	4.5	0.333333333	6.375501075	315	6.375501075	26.35498896	38.74576736	500	9.273106212	5.454030195	3.819076017
47	4.5	0.333333333	6.375501075	315	6.375501075	26.35498896	38.74576736	355	1.290180361	0.266667325	1.023513036
47	4.5	0.333333333	6.375501075	315	6.375501075	26.35498896	38.74576736	0	0.750701403	0.093224615	0.657476788
47	4.5	0.357142857	6.830894008	315	6.830894008	26.35498896	38.74576736	1000	9.051584786	3.830204737	5.221380049
47	4.5	0.357142857	6.830894008	315	6.830894008	26.35498896	38.74576736	700	81.66790808	90.35554065	-8.687632563
47	4.5	0.357142857	6.830894008	315	6.830894008	26.35498896	38.74576736	500	7.76477813	5.454030195	2.310747935
47	4.5	0.357142857	6.830894008	315	6.830894008	26.35498896	38.74576736	355	0.942947702	0.266667325	0.676280377
47	4.5	0.357142857	6.830894008	315	6.830894008	26.35498896	38.74576736	0	0.5727813	0.093224615	0.479556685
47	3	0.067567568	1.809340721	75	1.809340721	18.82419199	20.37563639	1000	9.360208167	3.830204737	5.530003429
47	3	0.067567568	1.809340721	75	1.809340721	18.82419199	20.37563639	700	84.94851882	90.35554065	-5.40702183
47	3	0.067567568	1.809340721	75	1.809340721	18.82419199	20.37563639	500	5.043915132	5.454030195	-0.410115063
47	3	0.067567568	1.809340721	75	1.809340721	18.82419199	20.37563639	355	0.35652522	0.266667325	0.089857895
47	3	0.067567568	1.809340721	75	1.809340721	18.82419199	20.37563639	0	0.290832666	0.093224615	0.197608051
47	3	0.065789474	1.757170103	73	1.757170103	18.87300362	20.38367167	1000	8.536071429	3.830204737	4.705866691
47	3	0.065789474	1.757170103	73	1.757170103	18.87300362	20.38367167	700	84.79861111	90.35554065	-5.556929534

47	3	0.065789474	73	1.757170103	18.87300362	20.38367167	500	5.978809524	5.454030195	0.524779328
47	3	0.065789474	73	1.757170103	18.87300362	20.38367167	355	0.456666667	0.266667325	0.189999342
47	3	0.065789474	73	1.757170103	18.87300362	20.38367167	0	0.22984127	0.093224615	0.136616655
47	2.5	0.301204819	212	9.807824185	15.48059543	19.72624385	1000	8.570089286	3.830204737	4.739884548
47	2.5	0.301204819	212	9.807824185	15.48059543	19.72624385	700	84.62459416	90.35554065	-5.730946489
47	2.5	0.301204819	212	9.807824185	15.48059543	19.72624385	500	6.026988636	5.454030195	0.572958441
47	2.5	0.301204819	212	9.807824185	15.48059543	19.72624385	355	0.400974026	0.266667325	0.134306701
47	2.5	0.347222222	212	9.807824185	15.48059543	19.72624385	0	0.377353896	0.093224615	0.284129281
47	2.5	0.347222222	190	10.92724205	16.01752334	19.84561068	1000	9.772853186	3.830204737	5.942648448
47	2.5	0.347222222	190	10.92724205	16.01752334	19.84561068	700	84.76173328	90.35554065	-5.593807365
47	2.5	0.347222222	190	10.92724205	16.01752334	19.84561068	500	5.00241393	5.454030195	-0.451616266
47	2.5	0.347222222	190	10.92724205	16.01752334	19.84561068	355	0.285239414	0.266667325	0.018572089
47	2.5	0.347222222	190	10.92724205	16.01752334	19.84561068	0	0.17776019	0.093224615	0.084535575
47	3	0.367647059	220	9.493110112	19.52185103	25.13597812	1000	8.519839679	3.830204737	4.689634942
47	3	0.367647059	220	9.493110112	19.52185103	25.13597812	700	84.99066132	90.35554065	-5.364879322
47	3	0.367647059	220	9.493110112	19.52185103	25.13597812	500	5.693667335	5.454030195	0.239637139
47	3	0.367647059	220	9.493110112	19.52185103	25.13597812	355	0.460440882	0.266667325	0.193773557
47	3	0.367647059	220	9.493110112	19.52185103	25.13597812	0	0.335390782	0.093224615	0.242166167
47	3	0.347222222	220	8.965715105	19.52185103	25.13597812	1000	9.036165928	3.830204737	5.205961191
47	3	0.347222222	220	8.965715105	19.52185103	25.13597812	700	85.10289972	90.35554065	-5.252640927
47	3	0.347222222	220	8.965715105	19.52185103	25.13597812	500	5.121345147	5.454030195	-0.332685048
47	3	0.347222222	220	8.965715105	19.52185103	25.13597812	355	0.429399919	0.266667325	0.162732594
47	3	0.347222222	220	8.965715105	19.52185103	25.13597812	0	0.310189287	0.093224615	0.216964672
47	3.25	0.265957447	180	6.460504781	20.75124317	25.39127269	1000	10.35781058	3.830204737	6.527605841
47	3.25	0.265957447	180	6.460504781	20.75124317	25.39127269	700	79.80127101	90.35554065	-10.55426963
47	3.25	0.265957447	180	6.460504781	20.75124317	25.39127269	500	8.036859369	5.454030195	2.582829173
47	3.25	0.265957447	180	6.460504781	20.75124317	25.39127269	355	0.98195982	0.266667325	0.731528657
47	3.25	0.265957447	180	6.460504781	20.75124317	25.39127269	0	0.805863059	0.093224615	0.712638444
47	3.25	0.23364486	171	5.600923555	21.0278564	25.44525621	1000	13.25077844	3.830204737	9.420573706
47	3.25	0.23364486	171	5.600923555	21.0278564	25.44525621	700	83.3944511	90.35554065	-6.961089547
47	3.25	0.23364486	171	5.600923555	21.0278564	25.44525621	500	3.134730539	5.454030195	-2.319299656
47	3.25	0.23364486	171	5.600923555	21.0278564	25.44525621	355	0.093413174	0.266667325	-0.173254151
47	3.25	0.23364486	171	5.600923555	21.0278564	25.44525621	0	0.126626747	0.093224615	0.033402132