



Environmental

Geotechnical

Highways

Structural

Civil

Manchester International Office Centre

Styal Road

Manchester M22 5WB

Proposed Drive Thru' Unit

Drainage Strategy

For: Infinity (MIOC) LLP

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1.0 INTRODUCTION

- 1.1 Integra Consulting has been commissioned by Infinity (MIOC) LLP to undertake a Drainage Strategy report for a Drive Thru' site at Manchester International Office Centre, Styal Road M22 5WB. This document has been prepared to accompany the full planning application for the proposed retail development of the application site.
- 1.2 The objective of this Drainage Strategy is to identify potential drainage / flooding issues and any consequent implications on the proposed site development.
- 1.3 The Drainage Strategy has been undertaken in accordance with the pro-forma guidance contained in:
- Department for Communities and Local Government document 'National Planning Practice Guidance: Flood Risk and Coastal Change'
 - Manchester City, Salford City and Trafford Councils Level 1 Strategic Flood Risk Assessment (SFRA) dated May 2010 and Level 2 SFRA dated March 2011
 - CIRIA SuDS Manual C753 dated 2015
 - DEFRA / Environment Agency publication SC030219 'Rainfall Runoff Management for Developments' dated October 2013.
- 1.4 To date, consultations have been undertaken with the Environment Agency (EA) and United Utilities (UU).

2.0 STANDARDS AND LIMITATIONS

This report has been prepared solely for use by Infinity (MIOC) LLP.

It shall not be relied upon or transferred to any other party without the prior written authorisation of Integra Consulting.

The findings and opinions in the report are based on information derived from a variety of different sources. Integra Consulting do not accept any liability for the accuracy or otherwise of any information provided by third parties.

It should be noted that some of the aspects considered in this study may be subject to change with time. Therefore, if the development is delayed or postponed, consideration may need to be given to reviewing such issues to confirm that no changes have taken place, either at the site or within relevant legislation.

Further consultations with statutory bodies are likely as the scheme progresses. It should be noted that even where responses have been received from Regulators, these could be subject to change at a later date.

3.0 CURRENT SITUATION

3.1 Site Location and Description

The existing 0.21 hectare development site is located on Styal Road, circa 1000m to the south west of the centre of Heald Green, Manchester at postcode M22 5WB. The site is centred at National Grid reference 384037, 385364 as shown on the site location plan in Appendix 1.

The site is nominally level with levels varying between 73.5m AOD and 74.0m AOD - it is bounded to the west by Styal Road (B5166), to the east by an existing office development / car parking, to the north by a further area of car parking and to the south by a maintained grassed area (refer to Appendix 4 for details).

Currently, the site consists of part positively drained hard surfaced car parking area with areas of soft landscape present in the northern fringe of the site and in western section of the site adjacent to Styal Road.

3.2 Hydrology and Flooding

Current Environment Agency flood data indicates the site to lie wholly in Flood Zone 1 (refer to Appendix 2 for details).

EA / DEFRA surface water (pluvial) flood mapping identifies a minor, discrete area adjacent to the southern end of the site with a low probability of flooding.

Pluvial mapping is the subject of a separate EA paper made public in November 2013 and is useful in locating possible ground low points and depressions. We quote 'the conveyance effect of ordinary watercourses or drainage channels is not explicitly modelled'- so whilst the EA mapping shows pathways and confirms the stream paths, the mapping generally takes little account of any existing drainage and in practice there is a very low risk of flooding.

Furthermore, surface water mapping is based on J Flow software and the EA May 2013 'National Scale Surface Water Flood Mapping Methodology' states that the method does not take account of existing drainage systems except by subtracting an average rain depth from storm profiles.

The site is shown to lie outside the maximum extent of flooding area from reservoirs.

Groundwater mapping indicates negligible risk at the subject site (refer to Appendix 3 for details).

The Manchester City, Salford City and Trafford Councils Level 2 Strategic Flood Risk Assessment dated March 2011 states that the subject site lies in the Manchester and Trafford South critical drainage area.

The nearest watercourse to the site lies circa 400m east of the site on the eastern side of the Metrolink lines.

3.3 Existing Sewers

The adopted sewers present in the vicinity of the proposed development site are noted as follows (refer to Appendix 8 for details):

- 600mm diameter adopted combined sewer extending from south to north beneath Styal Road directly to the west of the development site
- 225mm diameter combined sewer extending from east to west within the site curtilage adjacent to the northern boundary

4.0 PROPOSED DEVELOPMENT

4.1 Development Proposals

Infinity (MIOC) LLP are proposing to construct a new drive thru' unit with associated car parking and soft landscaping on the existing site (refer to proposed site plan in Appendix 5).

4.2 Surface Water Drainage

The issue of surface water drainage to the proposed development has been considered with reference to the hierarchy of surface water disposal as noted in the Building Regulations H3:

- i) Sustainable Urban Drainage Systems (SUDS)
- ii) Discharge of surface water off site direct to watercourse
- iii) Discharge to adopted sewer

SUDS are made up of one or more structures built to manage surface water runoff. They are used in conjunction with good management of the site to prevent flooding and pollution. There are four general methods of control:

- Filter strips and swales
- Filter drains and permeable surfaces
- Infiltration devices
- Basins and Ponds

The BGS 1:10,000 scale drift geological map indicates that the study site is underlain by natural drift deposits comprising impermeable diamicton (glacial boulder clay) deposits. The solid geology is generally documented to comprise the Chester Formation (*formerly the Bunter Pebble Beds*) of the Sherwood Sandstone Group comprising permeable red / brown fine- to coarse grained, locally micaceous, generally pebbly, trough - cross-bedded aeolian / fluvial sandstone. An examination of local borehole records suggests that the glacial boulder clay drift deposits extend to depths in excess of 5m below ground level.

Based on the low permeability associated with the anticipated significant depth of boulder clay drift deposits, soakaways and permeable surfaces are deemed unsuitable from a geotechnical viewpoint.

Given the above, together with the nearest watercourse to the site lying 400m east of the site through third party land ownerships, it is therefore proposed to discharge post-development surface water to the 600mm diameter adopted combined sewer extending from south to north beneath Styal Road directly to the west of the development site utilising the existing on-site drainage connections and also to discharge to the 225mm adopted diameter combined sewer extending from east to west within the site curtilage adjacent to the northern boundary which in turn discharges to the 600mm diameter adopted combined sewer system beneath Styal Road. The existing car parking area discharges surface water to this combined sewer system as indicated on the topographical / drainage survey in Appendix 4. A formal pre-development enquiry will be issued to United Utilities setting out the proposed method of post-development surface and foul water discharge from the site.

The Manchester City, Salford City and Trafford Councils Level 2 Strategic Flood Risk Assessment (SFRA) dated March 2011 states that the subject site lies in the Manchester and Trafford South critical drainage area. The requirement of the SFRA is for the existing brownfield run off rate to be reduced by 50% for all rainfall events up to and including the 1 in 100 year event plus 40% climate change factor.

Accordingly, it is proposed that all post-development hard surfaced / drained areas of the site discharge to the on-site / adjacent combined sewer beneath Styal Road at 50% of the existing brownfield runoff rate associated with the existing hard surfaced, positively drained areas of the site (refer to Appendix 6 for details).

The proposed post-development brownfield run off rate results in estimated on site storage to cater for a 1 in 30 year event of approximately 25m³ and on site storage to cater for a 1 in 100 year plus 40% climate change of approximately 65m³ (refer to Appendix 7 for estimated surface water storage calculation details). It is noted that these estimated figures are subject to future detailed drainage design.

The post-development surface water drainage system will be designed to ensure that:

- There is no surcharge in the 1 in 1 year event;
- Surface water flows up to a 1 in 30 year event remain in below ground storage;
- Surface water flows remain on site up to a 1 in 100 year + 40% climate change storm event. Sufficient surface water storage and shallow ponding volume will be available to ensure there is no risk to property.

4.3 National Planning Policy Framework and Technical Guidance

The retail site development proposals are classed as 'less vulnerable' in Table 2 of the Flood Risk and Coastal Change guidance.

'Less vulnerable' developments in Flood Zone 1 are classed as appropriate according to Table 3 of the Flood Risk and Coastal Change guidance.

Proposed post development levels will be engineered in order to protect the development and not provide any increased flood risk elsewhere.

Types of flooding that could affect the site are:

River - the site lies in Flood Zone 1

Sea – there is no risk of flooding from the sea

Land – there are no undrained land slopes towards the site

Groundwater – there are no springs or weep areas on the site

Sewers – there have been no local reports of sewer surcharge

4.4 Strategic Flood Risk Assessment & EA Mapping Review

From our review of the Manchester City, Salford City and Trafford Councils Level 2 Strategic Flood Risk Assessment (SFRA) dated March 2011, the site lies in the Manchester and Trafford South Critical Drainage Area.

Accordingly, it is proposed to discharge post-development surface water from hard surfaced / drained areas of the site to the existing on-site / adjacent adopted combined sewer at 50% of the existing brownfield runoff rate associated with the existing hard surfaced, positively drained areas of the site (refer to Appendices 6 & 7 for details).

There are no groundwater protection zones in the vicinity of the site and there is negligible residual fluvial risk. The site is not noted to lie within a flood warning area.

4.5 Safe Access and Egress

Safe access / egress from the site in extreme conditions will be via the entrance on Styal Road.

4.6 SuDS Measures

Our assessment in section 4.2 has demonstrated that the only viable surface water drainage option is discharge to the on-site / adjacent adopted sewer system. Accordingly, in this instance, no further SuDS measures are proposed in addition to the below ground attenuation crate storage / flow control chamber to be provided prior to discharge at 50% of existing brownfield run off rates to the existing adopted on-site / adjacent combined sewer system.

4.7 Management and Maintenance of SuDS Drainage System

The management and maintenance of the below ground drainage and SuDS for the new retail development will be undertaken by a maintenance management company to be appointed for the project. The appointment of the maintenance and management company is to be confirmed at the completion of the build phase.

All parts of the drainage network are to be accessible and are to be constructed from materials that are suitable and robust for the lifetime of the development.

The maintenance activities required for the below ground drainage network are as follows:

4.7.1 Flow Control

The maintenance for the flow control is as follows:

Operation	Frequency
Inspect and identify any areas that are not operating correctly, if required take remedial actions	Monthly for three months then at six monthly intervals
Debris removal from catchment surface (where it may cause risk to performance)	Monthly
Check control chamber for blockage or silt, algae or other matter by jetting	As required, but at least four times a year
Remove sediment from upstream drainage network and sediment from within manhole by jetting	As required, but at least twice a year
Repair / check all inlets and control mechanics	As required
Inspect / check all inlets and control mechanics to ensure that they are operating as designed	Twice a year as a minimum and after severe storm events

4.7.2 Flow Control Chamber Design Criteria

In addition to the above maintenance methods, the flow control chamber will be designed so it works effectively throughout the lifespan of the development and will have precautionary features to ensure maintenance work can be carried out promptly and efficiently to ensure no control failure which may otherwise subsequently lead to flooding.

Details of the flow control chamber are as follows:

- High Water Level Alarm: Alarm installed and directed to site maintenance team
- Spares: Control spares to be kept on site for efficient maintenance

4.7.3 Cellular Storage Structure

The maintenance for the cellular storage structure is as follows:

Operation	Frequency
Inspect and identify any areas that are not operating correctly and if required take remedial actions	Monthly for three months then six monthly intervals
Debris caused from catchment surface (where it may cause risk to performance)	Monthly
Where rainfall infiltration into cellular storage from above, check surface or filter for blockage or silt, algae or other matter by jetting	As required but at least twice a year
Remove sediment from upstream surface water network by jetting	Annually or as required
Repair / check all inlets, outlets, overflows and vents	As required
Inspect / check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed	Annually and after severe storms

4.7.4 Maintenance Activities

A log of all maintenance activities is to be kept and made available to the Local Planning Authority (LPA) and / or the Lead Local Flood Authority (LLFA) on request.

4.8 Foul Water Drainage

It is proposed to discharge post-development foul water to the existing adopted on-site / adjacent combined sewer system.

The foul drainage network will naturally comply with Building Regulations 2010 – Approved Document H1 and the calculations for post-development foul water discharge will be based on Sewers for Adoption 8th Edition.

5.0 CONCLUSIONS

5.1 Flooding

Following a review of the Environment Agency flood maps and data, it has been confirmed that the site lies wholly in Flood Zone 1.

There are to be no off site surface water flood routes generated by the development during an enhanced 1 in 100 year storm. All surface water run-off will remain on site in the 1 in 100 year + 40% climate change event.

5.2 Site Surface Water Drainage

It is proposed to discharge suitably attenuated post-development surface water to the on-site / adjacent adopted on-site / adjacent combined sewer system.

All feasible SuDS methods and surface water discharge destinations have been assessed. Accordingly, our assessment has demonstrated that the only viable surface water drainage option is attenuated discharge to the on-site / adjacent adopted sewer system. In this instance, no further SuDS measures are proposed in addition to the below ground attenuation crate storage / flow control chamber to be provided prior to discharge to the existing adopted on-site / adjacent combined sewer system.

5.3 Site Foul Water Drainage

It is proposed to discharge post-development foul water to the existing adopted on-site / adjacent combined sewer system.

5.4 Flood Risk Management Measures

There will be a site management Health and Safety document prepared in respect of the site.

5.5 Off Site Impacts

All roofed and paved areas are to be formally drained into the site surface water drainage system. The design of the site surface water system will ensure that no off site flood flows are generated by the proposed development in the 1 in 100 year plus 40% climate change event.

5.6 Residual Risk

With careful design of the drainage elements as described above, there will be no residual flood related risks remaining after the development has been completed.

A post-development safe emergency access can be maintained at all times during a flood event. Emergency access will be from Styal Road.

APPENDIX 1

SITE LOCATION PLAN

Notes

The Contractor is to check all dimensions and conditions on site before commencing. Do not scale from this drawing. This drawing remains the copyright of POZZONI Architecture Ltd.

Scale Bars										TO BE USED ONLY AS GUIDANCE									
1:100	mm	0	1000	2000	3000	4000	5000			1:200	mm	0	1000	2000	3000	4000	5000		
1:500	M	0	5	10	15	20	25			1:1250	M	0	10	20	30	40	50	60	70

Rev	Description	By	Date
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Client MIOC

Job MIOC, Drive Thru

Site Location Plan

Rev P5759_1000

BS Ref 5759-POZ-XX-XX-DR-A-1000

Date 03/03/21

Scale 1 : 1250

@ A3

3D Coord SPK

2D Coord SPK

Approved JW

Project Status Planning

Tender

Construction

Design

Contract

As Built

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APPENDIX 2

ENVIRONMENT AGENCY FLOOD MAPPING

Flood map for planning

Your reference
Drive Thru

Location (easting/northing)
384035/385347

Created
17 Jul 2021 13:49

Your selected location is in flood zone 1, an area with a low probability of flooding.

This means:

- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage problems

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2021 OS 100024198. <https://flood-map-for-planning.service.gov.uk/os-terms>

Your reference
Drive Thru

Scale
1:2500

 Flood zone 3

 Flood zone 3: areas benefitting from flood defences

 Flood zone 2

Flood zone 1

— Flood defence

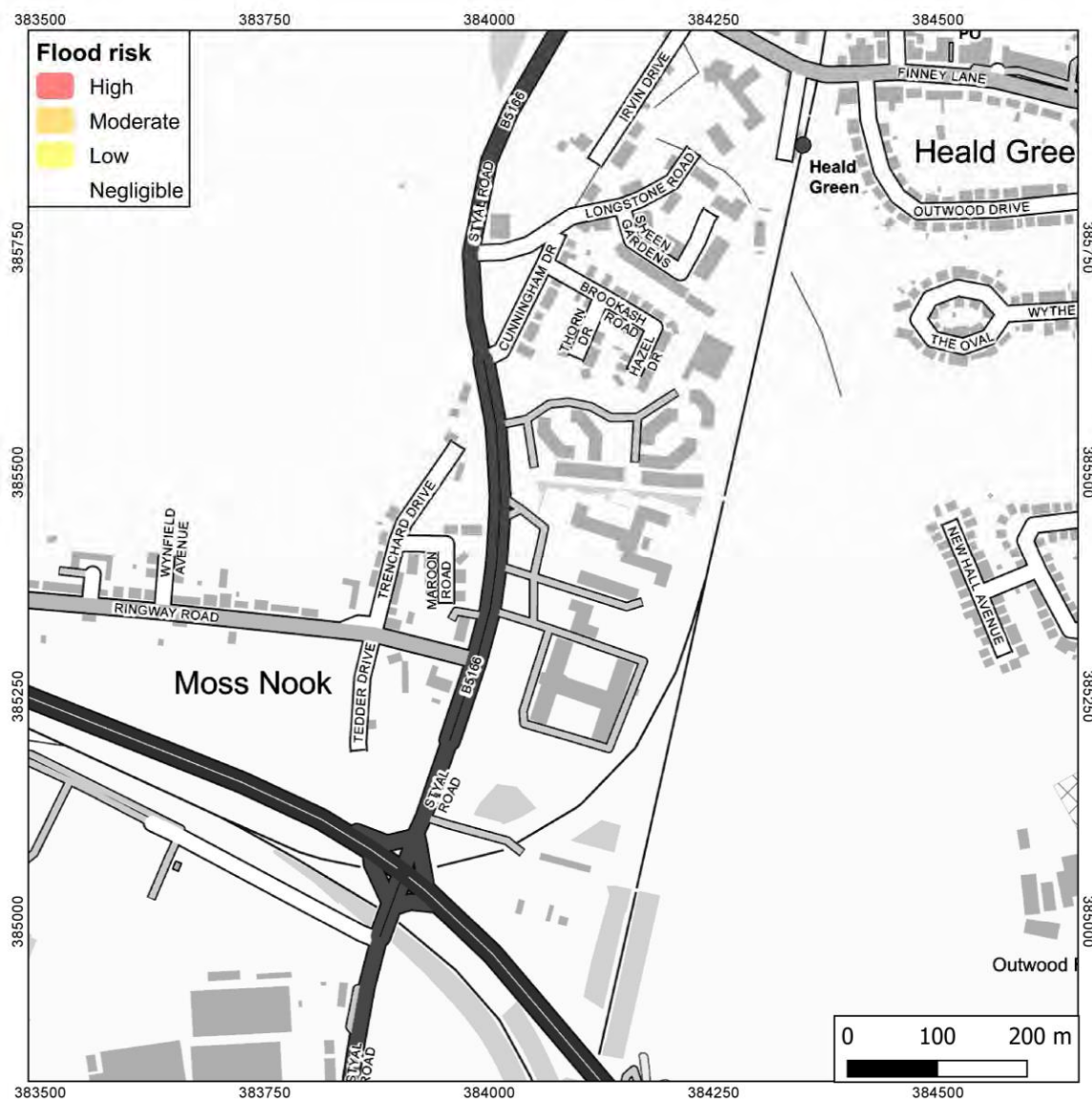
— Main river

 Flood storage area

APPENDIX 3

GROUNDWATER FLOOD MAPPING

GeoSmart GW5 Groundwater Flood Risk Map v2.4 (GeoSmart, 2021)



Contains Ordnance Survey data © Crown copyright and database right 2021

Contains British Geological Survey (BGS) materials © NERC 2021

APPENDIX 4

TOPOGRAPHICAL / DRAINAGE SURVEY

APPENDIX 5

PROPOSED SITE PLAN



Notes
The Contractor is to check all dimensions and conditions on site before commencing. Do not scale from this drawing.
This drawing remains the copyright of POZZONI Architecture Ltd.

Scale	Bar	TO BE USED ONLY AS GUIDANCE
1:100		
1:200		
1:500		
1:1000		

KEYPLAN



MATERIALS / FINISHES

	Hard Landscaping - Road		Soft Landscaping - All other areas
	Hard Landscaping - Tarmac Footpath		Soft Landscaping - Burrows
	Hard Landscaping - Paving		Site Boundary
			Exist to be demolished

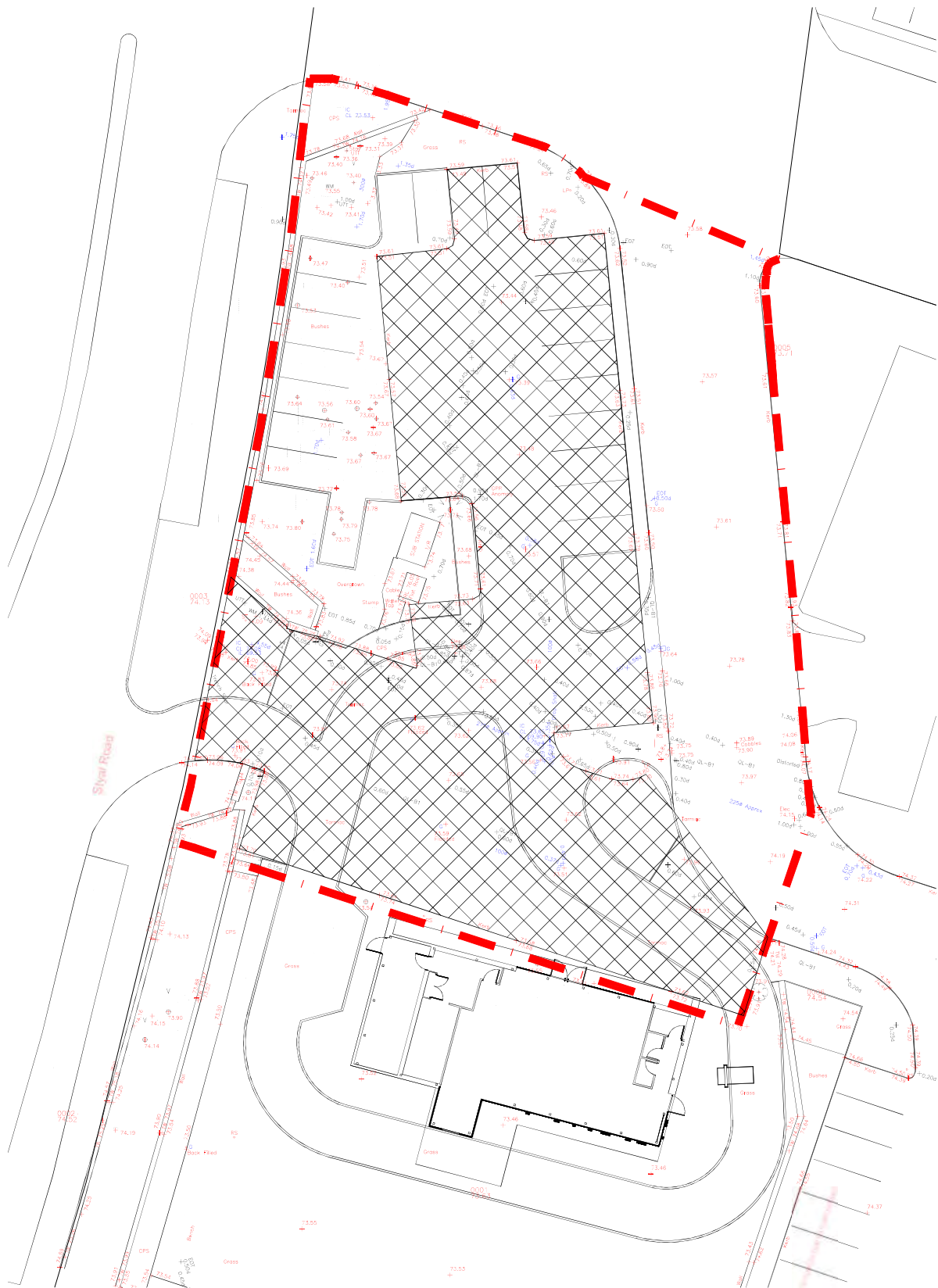
XX-Site - Proposed

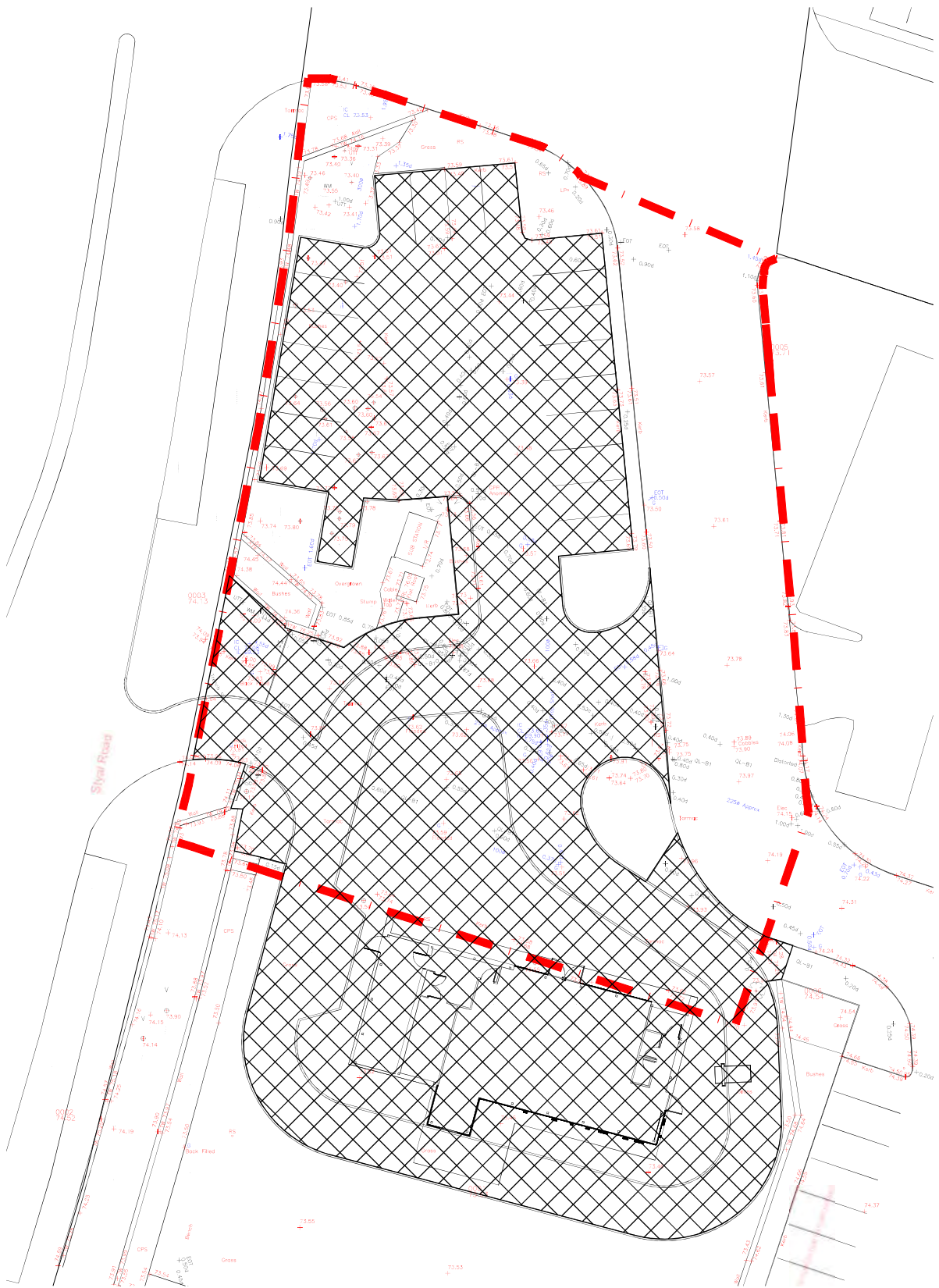
1 : 200

4	Amended to suit Highways comments	JW	28.05.21
3	Amended to suit Topographical survey and Tenant feedback	JW	25.05.21
2	Starbucks Layout Initiated	JW	13.05.21
1	Layout amended to suit Highways comments	JW	28.04.21
Rev	Description	By	Date
01	Infinity (MIOC) LLP		
02	Proposed Drive Thru, MIOC		
03	Planning - Proposed GA Site Plan		
04	P5759_1200	A	4
05	5759-POZ-XX-ZZ-DR-A-1200		
06	April 2021	1 : 200	@ A1
07	SPK	SPK	JW
08	Planning	Tender	Construction
09	Design	Contract	As Built
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APPENDIX 6

EXISTING / PROPOSED SURFACE WATER DISCHARGE RATES





Location M22 SWB

~~Red boundary taken from location plan~~

Discharge rate based on 50% betterment of existing downfield runoff

$$MS-60 = 18,15 \text{ mm}$$

$$R = 0,385$$

Red site boundary area:

Existing hardstanding area: 1015 m^2

$$D_{100\%} = 1015 \times 50 / (60 \times 60) = 14,10 \text{ l/s}$$

$$D_{50\%} = 7,05 \text{ l/s}$$

Proposed hardstanding area = 1780 m^2

Estimated attenuation:

$$1 \text{ in } 30 \text{ year} = 27 \text{ m}^3$$

$$1 \text{ in } 100 + 40\% \text{ CC} = 65 \text{ m}^3$$

APPENDIX 7

SURFACE WATER ATTENUATION CALCULATIONS

Integra Consulting Calculations						Job No	Date
						3255	Jul-21
						Sheet 01	By JS
Job Title MIOC							
Storm Water Flood Model M5-60 = 18.15 r = 0.385 Return, T = 30 CC Factor = 0.00 Area (m²) = 1780 Limit (l/s) = 7.05 Totals 2727							
D (mins)	M5-D (mm)	MT-D (mm)	Rate (mm/hr)	Flow (l/s)	CC Flow (l/s)	Storage (m³)	CC Storage (m³)
10.00	9.47	14.02	84.13	41.33	41.33	20.57	20.57
15.00	11.29	16.93	67.72	33.27	33.27	23.60	23.60
20.00	12.63	19.07	57.21	28.11	28.11	25.27	25.27
25.00	13.70	20.78	49.87	24.50	24.50	26.17	26.17
30.00	14.59	22.20	44.41	21.82	21.82	26.58	26.58
35.00	15.36	23.43	40.17	19.73	19.73	26.64	26.64
40.00	16.03	24.51	36.77	18.06	18.06	26.43	26.43
45.00	16.63	25.48	33.97	16.69	16.69	26.02	26.02
50.00	17.18	26.35	31.62	15.54	15.54	25.46	25.46
55.00	17.69	27.15	29.62	14.55	14.55	24.76	24.76
60.00	18.15	27.89	27.89	13.70	13.70	23.95	23.95
65.00	18.58	28.58	26.38	12.96	12.96	23.05	23.05
70.00	18.99	29.22	25.05	12.30	12.30	22.07	22.07
75.00	19.37	29.82	23.86	11.72	11.72	21.02	21.02
80.00	19.73	30.39	22.79	11.20	11.20	19.91	19.91
85.00	20.07	30.93	21.83	10.73	10.73	18.74	18.74
90.00	20.40	31.44	20.96	10.30	10.30	17.53	17.53
95.00	20.71	31.92	20.16	9.91	9.91	16.28	16.28
100.00	21.01	32.39	19.43	9.55	9.55	14.98	14.98
105.00	21.30	32.83	18.76	9.22	9.22	13.65	13.65
110.00	21.57	33.26	18.14	8.91	8.91	12.29	12.29
115.00	21.84	33.67	17.57	8.63	8.63	10.90	10.90
120.00	22.10	34.06	17.03	8.37	8.37	9.48	9.48
125.00	22.34	34.44	16.53	8.12	8.12	8.04	8.04
130.00	22.58	34.81	16.07	7.89	7.89	6.57	6.57
135.00	22.82	35.16	15.63	7.68	7.68	5.08	5.08
140.00	23.04	35.51	15.22	7.48	7.48	3.58	3.58
145.00	23.26	35.84	14.83	7.29	7.29	2.05	2.05
150.00	23.47	36.16	14.46	7.11	7.11	0.50	0.50
155.00	23.68	36.47	14.12	6.94	6.94	-1.06	-1.06
160.00	23.88	36.78	13.79	6.78	6.78	-2.64	-2.64
165.00	24.08	37.07	13.48	6.62	6.62	-4.23	-4.23
170.00	24.27	37.36	13.19	6.48	6.48	-5.84	-5.84
175.00	24.46	37.64	12.90	6.34	6.34	-7.46	-7.46
180.00	24.65	37.91	12.64	6.21	6.21	-9.09	-9.09
185.00	24.83	38.18	12.38	6.08	6.08	-10.73	-10.73
190.00	25.00	38.44	12.14	5.96	5.96	-12.39	-12.39
195.00	25.17	38.69	11.91	5.85	5.85	-14.05	-14.05
200.00	25.34	38.94	11.68	5.74	5.74	-15.73	-15.73

205.00	25.51	39.18	11.47	5.63	5.63	-17.42	-17.42
210.00	25.67	39.42	11.26	5.53	5.53	-19.11	-19.11
215.00	25.83	39.65	11.07	5.44	5.44	-20.82	-20.82
220.00	25.99	39.88	10.88	5.34	5.34	-22.53	-22.53
225.00	26.14	40.10	10.69	5.25	5.25	-24.25	-24.25
230.00	26.29	40.32	10.52	5.17	5.17	-25.98	-25.98
235.00	26.44	40.53	10.35	5.08	5.08	-27.72	-27.72
240.00	26.59	40.74	10.19	5.00	5.00	-29.47	-29.47
245.00	26.73	40.95	10.03	4.93	4.93	-31.22	-31.22
250.00	26.87	41.15	9.88	4.85	4.85	-32.98	-32.98
255.00	27.01	41.35	9.73	4.78	4.78	-34.74	-34.74
260.00	27.15	41.54	9.59	4.71	4.71	-36.51	-36.51
265.00	27.28	41.73	9.45	4.64	4.64	-38.29	-38.29
270.00	27.42	41.92	9.32	4.58	4.58	-40.07	-40.07
275.00	27.55	42.10	9.19	4.51	4.51	-41.86	-41.86
280.00	27.68	42.28	9.06	4.45	4.45	-43.66	-43.66
285.00	27.80	42.46	8.94	4.39	4.39	-45.46	-45.46
290.00	27.93	42.64	8.82	4.33	4.33	-47.26	-47.26
295.00	28.05	42.81	8.71	4.28	4.28	-49.07	-49.07
300.00	28.18	42.98	8.60	4.22	4.22	-50.89	-50.89
305.00	28.30	43.15	8.49	4.17	4.17	-52.71	-52.71
310.00	28.42	43.31	8.38	4.12	4.12	-54.53	-54.53
315.00	28.54	43.47	8.28	4.07	4.07	-56.36	-56.36
320.00	28.65	43.63	8.18	4.02	4.02	-58.19	-58.19
325.00	28.77	43.79	8.08	3.97	3.97	-60.03	-60.03
330.00	28.88	43.95	7.99	3.93	3.93	-61.87	-61.87
335.00	28.99	44.10	7.90	3.88	3.88	-63.71	-63.71
340.00	29.10	44.25	7.81	3.84	3.84	-65.56	-65.56
345.00	29.21	44.40	7.72	3.79	3.79	-67.41	-67.41
350.00	29.32	44.54	7.64	3.75	3.75	-69.27	-69.27
355.00	29.43	44.69	7.55	3.71	3.71	-71.13	-71.13
360.00	29.54	44.83	7.47	3.67	3.67	-72.99	-72.99
365.00	29.64	44.97	7.39	3.63	3.63	-74.86	-74.86
370.00	29.75	45.11	7.32	3.59	3.59	-76.73	-76.73
375.00	29.85	45.25	7.24	3.56	3.56	-78.60	-78.60
380.00	29.95	45.38	7.17	3.52	3.52	-80.48	-80.48
385.00	30.05	45.51	7.09	3.48	3.48	-82.36	-82.36
390.00	30.15	45.65	7.02	3.45	3.45	-84.24	-84.24
395.00	30.25	45.78	6.95	3.42	3.42	-86.12	-86.12
400.00	30.35	45.90	6.89	3.38	3.38	-88.01	-88.01
405.00	30.45	46.03	6.82	3.35	3.35	-89.90	-89.90
410.00	30.54	46.16	6.75	3.32	3.32	-91.80	-91.80
415.00	30.64	46.28	6.69	3.29	3.29	-93.69	-93.69
420.00	30.73	46.40	6.63	3.26	3.26	-95.59	-95.59
425.00	30.82	46.52	6.57	3.23	3.23	-97.49	-97.49
430.00	30.92	46.64	6.51	3.20	3.20	-99.40	-99.40
435.00	31.01	46.86	6.46	3.18	3.18	-101.13	-101.13
440.00	31.10	46.98	6.41	3.15	3.15	-103.02	-103.02
445.00	31.19	47.11	6.35	3.12	3.12	-104.92	-104.92
450.00	31.28	47.23	6.30	3.09	3.09	-106.81	-106.81

455.00	31.37	47.35	6.24	3.07	3.07	-108.71	-108.71
460.00	31.46	47.48	6.19	3.04	3.04	-110.61	-110.61
465.00	31.54	47.60	6.14	3.02	3.02	-112.52	-112.52
470.00	31.63	47.72	6.09	2.99	2.99	-114.42	-114.42
475.00	31.71	47.83	6.04	2.97	2.97	-116.33	-116.33
480.00	31.80	47.95	5.99	2.94	2.94	-118.23	-118.23
485.00	31.88	48.07	5.95	2.92	2.92	-120.14	-120.14
490.00	31.97	48.18	5.90	2.90	2.90	-122.05	-122.05
495.00	32.05	48.30	5.85	2.88	2.88	-123.97	-123.97
500.00	32.13	48.41	5.81	2.85	2.85	-125.88	-125.88
505.00	32.21	48.52	5.77	2.83	2.83	-127.80	-127.80
510.00	32.30	48.63	5.72	2.81	2.81	-129.72	-129.72
515.00	32.38	48.74	5.68	2.79	2.79	-131.63	-131.63
520.00	32.46	48.85	5.64	2.77	2.77	-133.56	-133.56
525.00	32.54	48.96	5.60	2.75	2.75	-135.48	-135.48
530.00	32.61	49.07	5.56	2.73	2.73	-137.40	-137.40
535.00	32.69	49.18	5.52	2.71	2.71	-139.33	-139.33
540.00	32.77	49.29	5.48	2.69	2.69	-141.25	-141.25
545.00	32.85	49.39	5.44	2.67	2.67	-143.18	-143.18
550.00	32.92	49.50	5.40	2.65	2.65	-145.11	-145.11
555.00	33.00	49.60	5.36	2.63	2.63	-147.04	-147.04
560.00	33.07	49.70	5.33	2.62	2.62	-148.97	-148.97
565.00	33.15	49.81	5.29	2.60	2.60	-150.91	-150.91
570.00	33.22	49.91	5.25	2.58	2.58	-152.84	-152.84
575.00	33.30	50.01	5.22	2.56	2.56	-154.78	-154.78
580.00	33.37	50.11	5.18	2.55	2.55	-156.72	-156.72
585.00	33.44	50.21	5.15	2.53	2.53	-158.65	-158.65
590.00	33.52	50.31	5.12	2.51	2.51	-160.59	-160.59
595.00	33.59	50.41	5.08	2.50	2.50	-162.54	-162.54
600.00	33.66	50.50	5.05	2.48	2.48	-164.48	-164.48
605.00	33.73	50.60	5.02	2.47	2.47	-166.42	-166.42
610.00	33.80	50.70	4.99	2.45	2.45	-168.37	-168.37
615.00	33.87	50.79	4.96	2.43	2.43	-170.31	-170.31
620.00	33.94	50.89	4.92	2.42	2.42	-172.26	-172.26
625.00	34.01	50.98	4.89	2.40	2.40	-174.21	-174.21
630.00	34.08	51.08	4.86	2.39	2.39	-176.15	-176.15
635.00	34.15	51.17	4.84	2.38	2.38	-178.10	-178.10
640.00	34.22	51.26	4.81	2.36	2.36	-180.06	-180.06
645.00	34.29	51.36	4.78	2.35	2.35	-182.01	-182.01
650.00	34.35	51.45	4.75	2.33	2.33	-183.96	-183.96
655.00	34.42	51.54	4.72	2.32	2.32	-185.91	-185.91
660.00	34.49	51.63	4.69	2.31	2.31	-187.87	-187.87
665.00	34.55	51.72	4.67	2.29	2.29	-189.83	-189.83
670.00	34.62	51.81	4.64	2.28	2.28	-191.78	-191.78
675.00	34.68	51.90	4.61	2.27	2.27	-193.74	-193.74
680.00	34.75	51.98	4.59	2.25	2.25	-195.70	-195.70
685.00	34.81	52.07	4.56	2.24	2.24	-197.66	-197.66
690.00	34.88	52.16	4.54	2.23	2.23	-199.62	-199.62
695.00	34.94	52.25	4.51	2.22	2.22	-201.58	-201.58
700.00	35.00	52.33	4.49	2.20	2.20	-203.54	-203.54

705.00	35.07	52.42	4.46	2.19	2.19	-205.51	-205.51
710.00	35.13	52.50	4.44	2.18	2.18	-207.47	-207.47
715.00	35.19	52.59	4.41	2.17	2.17	-209.44	-209.44
720.00	35.26	52.67	4.39	2.16	2.16	-211.40	-211.40
725.00	35.32	52.76	4.37	2.14	2.14	-213.37	-213.37
730.00	35.38	52.84	4.34	2.13	2.13	-215.34	-215.34
735.00	35.44	52.92	4.32	2.12	2.12	-217.31	-217.31
740.00	35.50	53.01	4.30	2.11	2.11	-219.27	-219.27
745.00	35.56	53.09	4.28	2.10	2.10	-221.24	-221.24
750.00	35.62	53.17	4.25	2.09	2.09	-223.22	-223.22
755.00	35.68	53.25	4.23	2.08	2.08	-225.19	-225.19
760.00	35.74	53.33	4.21	2.07	2.07	-227.16	-227.16
765.00	35.80	53.41	4.19	2.06	2.06	-229.13	-229.13
770.00	35.86	53.49	4.17	2.05	2.05	-231.11	-231.11
775.00	35.92	53.57	4.15	2.04	2.04	-233.08	-233.08
780.00	35.98	53.65	4.13	2.03	2.03	-235.06	-235.06
785.00	36.04	53.73	4.11	2.02	2.02	-237.03	-237.03
790.00	36.09	53.81	4.09	2.01	2.01	-239.01	-239.01
795.00	36.15	53.88	4.07	2.00	2.00	-240.99	-240.99
800.00	36.21	53.96	4.05	1.99	1.99	-242.96	-242.96
805.00	36.27	54.04	4.03	1.98	1.98	-244.94	-244.94
810.00	36.32	54.11	4.01	1.97	1.97	-246.92	-246.92
815.00	36.38	54.19	3.99	1.96	1.96	-248.90	-248.90
820.00	36.44	54.27	3.97	1.95	1.95	-250.88	-250.88
825.00	36.49	54.34	3.95	1.94	1.94	-252.87	-252.87
830.00	36.55	54.42	3.93	1.93	1.93	-254.85	-254.85
835.00	36.60	54.49	3.92	1.92	1.92	-256.83	-256.83
840.00	36.66	54.57	3.90	1.91	1.91	-258.81	-258.81
845.00	36.71	54.64	3.88	1.91	1.91	-260.80	-260.80
850.00	36.77	54.71	3.86	1.90	1.90	-262.78	-262.78
855.00	36.82	54.79	3.84	1.89	1.89	-264.77	-264.77
860.00	36.88	54.86	3.83	1.88	1.88	-266.75	-266.75
865.00	36.93	54.93	3.81	1.87	1.87	-268.74	-268.74
870.00	36.99	55.00	3.79	1.86	1.86	-270.73	-270.73
875.00	37.04	55.08	3.78	1.86	1.86	-272.72	-272.72
880.00	37.09	55.15	3.76	1.85	1.85	-274.70	-274.70
885.00	37.15	55.22	3.74	1.84	1.84	-276.69	-276.69
890.00	37.20	55.29	3.73	1.83	1.83	-278.68	-278.68
895.00	37.25	55.36	3.71	1.82	1.82	-280.67	-280.67
900.00	37.30	55.43	3.70	1.82	1.82	-282.66	-282.66
905.00	37.36	55.50	3.68	1.81	1.81	-284.65	-284.65
910.00	37.41	55.57	3.66	1.80	1.80	-286.65	-286.65
915.00	37.46	55.64	3.65	1.79	1.79	-288.64	-288.64
920.00	37.51	55.71	3.63	1.78	1.78	-290.63	-290.63
925.00	37.56	55.78	3.62	1.78	1.78	-292.62	-292.62
930.00	37.61	55.85	3.60	1.77	1.77	-294.62	-294.62
935.00	37.67	55.92	3.59	1.76	1.76	-296.61	-296.61
940.00	37.72	55.98	3.57	1.76	1.76	-298.61	-298.61
945.00	37.77	56.05	3.56	1.75	1.75	-300.60	-300.60
950.00	37.82	56.12	3.54	1.74	1.74	-302.60	-302.60

955.00	37.87	56.19	3.53	1.73	1.73	-304.60	-304.60
960.00	37.92	56.25	3.52	1.73	1.73	-306.59	-306.59
965.00	37.97	56.32	3.50	1.72	1.72	-308.59	-308.59
970.00	38.02	56.38	3.49	1.71	1.71	-310.59	-310.59
975.00	38.07	56.45	3.47	1.71	1.71	-312.59	-312.59
980.00	38.12	56.52	3.46	1.70	1.70	-314.59	-314.59
985.00	38.16	56.58	3.45	1.69	1.69	-316.58	-316.58
990.00	38.21	56.65	3.43	1.69	1.69	-318.58	-318.58
995.00	38.26	56.71	3.42	1.68	1.68	-320.58	-320.58
1000.00	38.31	56.78	3.41	1.67	1.67	-322.59	-322.59
1005.00	38.36	56.84	3.39	1.67	1.67	-324.59	-324.59
1010.00	38.41	56.90	3.38	1.66	1.66	-326.59	-326.59
1015.00	38.45	56.97	3.37	1.65	1.65	-328.59	-328.59
1020.00	38.50	57.03	3.35	1.65	1.65	-330.59	-330.59
1025.00	38.55	57.09	3.34	1.64	1.64	-332.60	-332.60
1030.00	38.60	57.16	3.33	1.64	1.64	-334.60	-334.60
1035.00	38.64	57.22	3.32	1.63	1.63	-336.60	-336.60
1040.00	38.69	57.28	3.30	1.62	1.62	-338.61	-338.61
1045.00	38.74	57.35	3.29	1.62	1.62	-340.61	-340.61
1050.00	38.78	57.41	3.28	1.61	1.61	-342.62	-342.62
1055.00	38.83	57.47	3.27	1.61	1.61	-344.62	-344.62
1060.00	38.88	57.53	3.26	1.60	1.60	-346.63	-346.63
1065.00	38.92	57.59	3.24	1.59	1.59	-348.64	-348.64
1070.00	38.97	57.65	3.23	1.59	1.59	-350.64	-350.64
1075.00	39.02	57.71	3.22	1.58	1.58	-352.65	-352.65
1080.00	39.06	57.78	3.21	1.58	1.58	-354.66	-354.66
1085.00	39.11	57.84	3.20	1.57	1.57	-356.67	-356.67
1090.00	39.15	57.90	3.19	1.57	1.57	-358.67	-358.67
1095.00	39.20	57.96	3.18	1.56	1.56	-360.68	-360.68
1100.00	39.24	58.02	3.16	1.55	1.55	-362.69	-362.69
1105.00	39.29	58.08	3.15	1.55	1.55	-364.70	-364.70
1110.00	39.33	58.13	3.14	1.54	1.54	-366.71	-366.71
1115.00	39.38	58.19	3.13	1.54	1.54	-368.72	-368.72
1120.00	39.42	58.25	3.12	1.53	1.53	-370.73	-370.73
1125.00	39.47	58.31	3.11	1.53	1.53	-372.75	-372.75
1130.00	39.51	58.37	3.10	1.52	1.52	-374.76	-374.76
1135.00	39.55	58.43	3.09	1.52	1.52	-376.77	-376.77
1140.00	39.60	58.49	3.08	1.51	1.51	-378.78	-378.78
1145.00	39.64	58.54	3.07	1.51	1.51	-380.79	-380.79
1150.00	39.68	58.60	3.06	1.50	1.50	-382.81	-382.81
1155.00	39.73	58.66	3.05	1.50	1.50	-384.82	-384.82
1160.00	39.77	58.72	3.04	1.49	1.49	-386.83	-386.83
1165.00	39.81	58.77	3.03	1.49	1.49	-388.85	-388.85
1170.00	39.86	58.83	3.02	1.48	1.48	-390.86	-390.86
1175.00	39.90	58.89	3.01	1.48	1.48	-392.88	-392.88
1180.00	39.94	58.94	3.00	1.47	1.47	-394.89	-394.89
1185.00	39.99	59.00	2.99	1.47	1.47	-396.91	-396.91
1190.00	40.03	59.06	2.98	1.46	1.46	-398.92	-398.92
1195.00	40.07	59.11	2.97	1.46	1.46	-400.94	-400.94
1200.00	40.11	59.17	2.96	1.45	1.45	-402.96	-402.96

1205.00	40.15	59.22	2.95	1.45	1.45	-404.97	-404.97
1210.00	40.20	59.28	2.94	1.44	1.44	-406.99	-406.99
1215.00	40.24	59.33	2.93	1.44	1.44	-409.01	-409.01
1220.00	40.28	59.39	2.92	1.43	1.43	-411.03	-411.03
1225.00	40.32	59.44	2.91	1.43	1.43	-413.04	-413.04
1230.00	40.36	59.50	2.90	1.43	1.43	-415.06	-415.06
1235.00	40.40	59.55	2.89	1.42	1.42	-417.08	-417.08
1240.00	40.44	59.61	2.88	1.42	1.42	-419.10	-419.10
1245.00	40.49	59.66	2.88	1.41	1.41	-421.12	-421.12
1250.00	40.53	59.71	2.87	1.41	1.41	-423.14	-423.14
1255.00	40.57	59.77	2.86	1.40	1.40	-425.16	-425.16
1260.00	40.61	59.82	2.85	1.40	1.40	-427.18	-427.18
1265.00	40.65	59.87	2.84	1.40	1.40	-429.20	-429.20
1270.00	40.69	59.93	2.83	1.39	1.39	-431.22	-431.22
1275.00	40.73	59.98	2.82	1.39	1.39	-433.24	-433.24
1280.00	40.77	60.03	2.81	1.38	1.38	-435.26	-435.26
1285.00	40.81	60.09	2.81	1.38	1.38	-437.29	-437.29
1290.00	40.85	60.14	2.80	1.37	1.37	-439.31	-439.31
1295.00	40.89	60.19	2.79	1.37	1.37	-441.33	-441.33
1300.00	40.93	60.24	2.78	1.37	1.37	-443.35	-443.35
1305.00	40.97	60.30	2.77	1.36	1.36	-445.38	-445.38
1310.00	41.01	60.35	2.76	1.36	1.36	-447.40	-447.40
1315.00	41.05	60.40	2.76	1.35	1.35	-449.42	-449.42
1320.00	41.09	60.45	2.75	1.35	1.35	-451.45	-451.45
1325.00	41.13	60.50	2.74	1.35	1.35	-453.47	-453.47
1330.00	41.16	60.55	2.73	1.34	1.34	-455.49	-455.49
1335.00	41.20	60.60	2.72	1.34	1.34	-457.52	-457.52
1340.00	41.24	60.66	2.72	1.33	1.33	-459.54	-459.54
1345.00	41.28	60.71	2.71	1.33	1.33	-461.57	-461.57
1350.00	41.32	60.76	2.70	1.33	1.33	-463.59	-463.59
1355.00	41.36	60.81	2.69	1.32	1.32	-465.62	-465.62
1360.00	41.40	60.86	2.68	1.32	1.32	-467.65	-467.65
1365.00	41.43	60.91	2.68	1.32	1.32	-469.67	-469.67
1370.00	41.47	60.96	2.67	1.31	1.31	-471.70	-471.70
1375.00	41.51	61.01	2.66	1.31	1.31	-473.73	-473.73
1380.00	41.55	61.06	2.65	1.30	1.30	-475.75	-475.75
1385.00	41.59	61.11	2.65	1.30	1.30	-477.78	-477.78
1390.00	41.62	61.16	2.64	1.30	1.30	-479.81	-479.81
1395.00	41.66	61.21	2.63	1.29	1.29	-481.83	-481.83
1400.00	41.70	61.26	2.63	1.29	1.29	-483.86	-483.86
1405.00	41.74	61.30	2.62	1.29	1.29	-485.89	-485.89
1410.00	41.77	61.35	2.61	1.28	1.28	-487.92	-487.92
1415.00	41.81	61.40	2.60	1.28	1.28	-489.95	-489.95
1420.00	41.85	61.45	2.60	1.28	1.28	-491.98	-491.98
1425.00	41.88	61.50	2.59	1.27	1.27	-494.01	-494.01
1430.00	41.92	61.55	2.58	1.27	1.27	-496.04	-496.04
1435.00	41.96	61.60	2.58	1.27	1.27	-498.07	-498.07
1440.00	42.00	61.64	2.57	1.26	1.26	-500.10	-500.10
1445.00	42.03	61.69	2.56	1.26	1.26	-502.13	-502.13
1450.00	42.07	61.74	2.55	1.26	1.26	-504.16	-504.16

1455.00	42.10	61.79	2.55	1.25	1.25	-506.19	-506.19
1460.00	42.14	61.83	2.54	1.25	1.25	-508.22	-508.22
1465.00	42.18	61.88	2.53	1.25	1.25	-510.25	-510.25
1470.00	42.21	61.93	2.53	1.24	1.24	-512.28	-512.28
1475.00	42.25	61.98	2.52	1.24	1.24	-514.31	-514.31
1480.00	42.29	62.02	2.51	1.24	1.24	-516.34	-516.34
1485.00	42.32	62.07	2.51	1.23	1.23	-518.38	-518.38
1490.00	42.36	62.12	2.50	1.23	1.23	-520.41	-520.41
1495.00	42.39	62.16	2.49	1.23	1.23	-522.44	-522.44
1500.00	42.43	62.21	2.49	1.22	1.22	-524.47	-524.47
1505.00	42.46	62.26	2.48	1.22	1.22	-526.51	-526.51
1510.00	42.50	62.30	2.48	1.22	1.22	-528.54	-528.54
1515.00	42.53	62.35	2.47	1.21	1.21	-530.57	-530.57
1520.00	42.57	62.40	2.46	1.21	1.21	-532.61	-532.61
1525.00	42.61	62.44	2.46	1.21	1.21	-534.64	-534.64
1530.00	42.64	62.49	2.45	1.20	1.20	-536.68	-536.68
1535.00	42.68	62.53	2.44	1.20	1.20	-538.71	-538.71
1540.00	42.71	62.58	2.44	1.20	1.20	-540.74	-540.74
1545.00	42.74	62.62	2.43	1.19	1.19	-542.78	-542.78
1550.00	42.78	62.67	2.43	1.19	1.19	-544.81	-544.81
1555.00	42.81	62.71	2.42	1.19	1.19	-546.85	-546.85
1560.00	42.85	62.76	2.41	1.19	1.19	-548.88	-548.88
1565.00	42.88	62.80	2.41	1.18	1.18	-550.92	-550.92
1570.00	42.92	62.85	2.40	1.18	1.18	-552.96	-552.96
1575.00	42.95	62.89	2.40	1.18	1.18	-554.99	-554.99
1580.00	42.99	62.94	2.39	1.17	1.17	-557.03	-557.03
1585.00	43.02	62.98	2.38	1.17	1.17	-559.06	-559.06
1590.00	43.05	63.03	2.38	1.17	1.17	-561.10	-561.10
1595.00	43.09	63.07	2.37	1.17	1.17	-563.14	-563.14
1600.00	43.12	63.11	2.37	1.16	1.16	-565.17	-565.17
1605.00	43.16	63.16	2.36	1.16	1.16	-567.21	-567.21
1610.00	43.19	63.20	2.36	1.16	1.16	-569.25	-569.25
1615.00	43.22	63.25	2.35	1.15	1.15	-571.29	-571.29
1620.00	43.26	63.29	2.34	1.15	1.15	-573.32	-573.32
1625.00	43.29	63.33	2.34	1.15	1.15	-575.36	-575.36
1630.00	43.32	63.38	2.33	1.15	1.15	-577.40	-577.40
1635.00	43.36	63.42	2.33	1.14	1.14	-579.44	-579.44
1640.00	43.39	63.46	2.32	1.14	1.14	-581.48	-581.48
1645.00	43.42	63.51	2.32	1.14	1.14	-583.52	-583.52
1650.00	43.46	63.55	2.31	1.14	1.14	-585.55	-585.55
1655.00	43.49	63.59	2.31	1.13	1.13	-587.59	-587.59
1660.00	43.52	63.64	2.30	1.13	1.13	-589.63	-589.63
1665.00	43.56	63.68	2.29	1.13	1.13	-591.67	-591.67
1670.00	43.59	63.72	2.29	1.12	1.12	-593.71	-593.71
1675.00	43.62	63.76	2.28	1.12	1.12	-595.75	-595.75
1680.00	43.65	63.81	2.28	1.12	1.12	-597.79	-597.79
1685.00	43.69	63.85	2.27	1.12	1.12	-599.83	-599.83
1690.00	43.72	63.89	2.27	1.11	1.11	-601.87	-601.87
1695.00	43.75	63.93	2.26	1.11	1.11	-603.91	-603.91
1700.00	43.78	63.97	2.26	1.11	1.11	-605.95	-605.95

1705.00	43.82	64.02	2.25	1.11	1.11	-607.99	-607.99
1710.00	43.85	64.06	2.25	1.10	1.10	-610.04	-610.04
1715.00	43.88	64.10	2.24	1.10	1.10	-612.08	-612.08
1720.00	43.91	64.14	2.24	1.10	1.10	-614.12	-614.12
1725.00	43.94	64.18	2.23	1.10	1.10	-616.16	-616.16
1730.00	43.98	64.22	2.23	1.09	1.09	-618.20	-618.20
1735.00	44.01	64.27	2.22	1.09	1.09	-620.24	-620.24
1740.00	44.04	64.31	2.22	1.09	1.09	-622.29	-622.29
1745.00	44.07	64.35	2.21	1.09	1.09	-624.33	-624.33
1750.00	44.10	64.39	2.21	1.08	1.08	-626.37	-626.37
1755.00	44.14	64.43	2.20	1.08	1.08	-628.41	-628.41
1760.00	44.17	64.47	2.20	1.08	1.08	-630.46	-630.46
1765.00	44.20	64.51	2.19	1.08	1.08	-632.50	-632.50
1770.00	44.23	64.55	2.19	1.08	1.08	-634.54	-634.54
1775.00	44.26	64.59	2.18	1.07	1.07	-636.58	-636.58
1780.00	44.29	64.63	2.18	1.07	1.07	-638.63	-638.63
1785.00	44.32	64.67	2.17	1.07	1.07	-640.67	-640.67
1790.00	44.35	64.71	2.17	1.07	1.07	-642.72	-642.72
1795.00	44.39	64.75	2.16	1.06	1.06	-644.76	-644.76
1800.00	44.42	64.79	2.16	1.06	1.06	-646.80	-646.80
1805.00	44.45	64.83	2.16	1.06	1.06	-648.85	-648.85
1810.00	44.48	64.87	2.15	1.06	1.06	-650.89	-650.89
1815.00	44.51	64.91	2.15	1.05	1.05	-652.94	-652.94
1820.00	44.54	64.95	2.14	1.05	1.05	-654.98	-654.98
1825.00	44.57	64.99	2.14	1.05	1.05	-657.03	-657.03
1830.00	44.60	65.03	2.13	1.05	1.05	-659.07	-659.07
1835.00	44.63	65.07	2.13	1.05	1.05	-661.12	-661.12
1840.00	44.66	65.11	2.12	1.04	1.04	-663.16	-663.16
1845.00	44.69	65.15	2.12	1.04	1.04	-665.21	-665.21
1850.00	44.72	65.19	2.11	1.04	1.04	-667.25	-667.25
1855.00	44.75	65.23	2.11	1.04	1.04	-669.30	-669.30
1860.00	44.78	65.27	2.11	1.03	1.03	-671.34	-671.34
1865.00	44.81	65.31	2.10	1.03	1.03	-673.39	-673.39
1870.00	44.84	65.35	2.10	1.03	1.03	-675.44	-675.44
1875.00	44.87	65.39	2.09	1.03	1.03	-677.48	-677.48
1880.00	44.90	65.42	2.09	1.03	1.03	-679.53	-679.53
1885.00	44.93	65.46	2.08	1.02	1.02	-681.58	-681.58
1890.00	44.96	65.50	2.08	1.02	1.02	-683.62	-683.62
1895.00	44.99	65.54	2.08	1.02	1.02	-685.67	-685.67
1900.00	45.02	65.58	2.07	1.02	1.02	-687.72	-687.72
1905.00	45.05	65.62	2.07	1.02	1.02	-689.76	-689.76
1910.00	45.08	65.66	2.06	1.01	1.01	-691.81	-691.81
1915.00	45.11	65.69	2.06	1.01	1.01	-693.86	-693.86
1920.00	45.14	65.73	2.05	1.01	1.01	-695.91	-695.91
1925.00	45.17	65.77	2.05	1.01	1.01	-697.95	-697.95
1930.00	45.20	65.81	2.05	1.01	1.01	-700.00	-700.00
1935.00	45.23	65.85	2.04	1.00	1.00	-702.05	-702.05
1940.00	45.26	65.88	2.04	1.00	1.00	-704.10	-704.10
1945.00	45.29	65.92	2.03	1.00	1.00	-706.15	-706.15
1950.00	45.32	65.96	2.03	1.00	1.00	-708.20	-708.20

1955.00	45.35	66.00	2.03	1.00	1.00	-710.24	-710.24
1960.00	45.38	66.03	2.02	0.99	0.99	-712.29	-712.29
1965.00	45.41	66.07	2.02	0.99	0.99	-714.34	-714.34
1970.00	45.43	66.11	2.01	0.99	0.99	-716.39	-716.39
1975.00	45.46	66.14	2.01	0.99	0.99	-718.44	-718.44
1980.00	45.49	66.18	2.01	0.99	0.99	-720.49	-720.49
1985.00	45.52	66.22	2.00	0.98	0.98	-722.54	-722.54
1990.00	45.55	66.26	2.00	0.98	0.98	-724.59	-724.59
1995.00	45.58	66.29	1.99	0.98	0.98	-726.64	-726.64
2000.00	45.61	66.33	1.99	0.98	0.98	-728.69	-728.69
2005.00	45.64	66.37	1.99	0.98	0.98	-730.74	-730.74
2010.00	45.66	66.40	1.98	0.97	0.97	-732.79	-732.79
2015.00	45.69	66.44	1.98	0.97	0.97	-734.84	-734.84
2020.00	45.72	66.48	1.97	0.97	0.97	-736.89	-736.89
2025.00	45.75	66.51	1.97	0.97	0.97	-738.94	-738.94
2030.00	45.78	66.55	1.97	0.97	0.97	-740.99	-740.99
2035.00	45.81	66.59	1.96	0.96	0.96	-743.04	-743.04
2040.00	45.83	66.62	1.96	0.96	0.96	-745.09	-745.09
2045.00	45.86	66.66	1.96	0.96	0.96	-747.14	-747.14
2050.00	45.89	66.69	1.95	0.96	0.96	-749.19	-749.19
2055.00	45.92	66.73	1.95	0.96	0.96	-751.25	-751.25
2060.00	45.95	66.77	1.94	0.96	0.96	-753.30	-753.30
2065.00	45.97	66.80	1.94	0.95	0.95	-755.35	-755.35
2070.00	46.00	66.84	1.94	0.95	0.95	-757.40	-757.40
2075.00	46.03	66.87	1.93	0.95	0.95	-759.45	-759.45
2080.00	46.06	66.91	1.93	0.95	0.95	-761.50	-761.50
2085.00	46.09	66.94	1.93	0.95	0.95	-763.56	-763.56
2090.00	46.11	66.98	1.92	0.94	0.94	-765.61	-765.61
2095.00	46.14	67.02	1.92	0.94	0.94	-767.66	-767.66
2100.00	46.17	67.05	1.92	0.94	0.94	-769.71	-769.71
2105.00	46.20	67.09	1.91	0.94	0.94	-771.77	-771.77
2110.00	46.22	67.12	1.91	0.94	0.94	-773.82	-773.82
2115.00	46.25	67.16	1.91	0.94	0.94	-775.87	-775.87
2120.00	46.28	67.19	1.90	0.93	0.93	-777.92	-777.92
2125.00	46.31	67.23	1.90	0.93	0.93	-779.98	-779.98
2130.00	46.33	67.26	1.89	0.93	0.93	-782.03	-782.03
2135.00	46.36	67.30	1.89	0.93	0.93	-784.08	-784.08
2140.00	46.39	67.33	1.89	0.93	0.93	-786.14	-786.14
2145.00	46.41	67.37	1.88	0.93	0.93	-788.19	-788.19
2150.00	46.44	67.40	1.88	0.92	0.92	-790.24	-790.24
2155.00	46.47	67.44	1.88	0.92	0.92	-792.30	-792.30
2160.00	46.50	67.47	1.87	0.92	0.92	-794.35	-794.35
2165.00	46.52	67.51	1.87	0.92	0.92	-796.40	-796.40
2170.00	46.55	67.54	1.87	0.92	0.92	-798.46	-798.46
2175.00	46.58	67.57	1.86	0.92	0.92	-800.51	-800.51
2180.00	46.60	67.61	1.86	0.91	0.91	-802.57	-802.57
2185.00	46.63	67.64	1.86	0.91	0.91	-804.62	-804.62
2190.00	46.66	67.68	1.85	0.91	0.91	-806.68	-806.68
2195.00	46.68	67.71	1.85	0.91	0.91	-808.73	-808.73
2200.00	46.71	67.75	1.85	0.91	0.91	-810.79	-810.79

2205.00	46.74	67.78	1.84	0.91	0.91	-812.84	-812.84
2210.00	46.76	67.81	1.84	0.90	0.90	-814.89	-814.89
2215.00	46.79	67.85	1.84	0.90	0.90	-816.95	-816.95
2220.00	46.82	67.88	1.83	0.90	0.90	-819.01	-819.01
2225.00	46.84	67.91	1.83	0.90	0.90	-821.06	-821.06
2230.00	46.87	67.95	1.83	0.90	0.90	-823.12	-823.12
2235.00	46.90	67.98	1.83	0.90	0.90	-825.17	-825.17
2240.00	46.92	68.02	1.82	0.90	0.90	-827.23	-827.23
2245.00	46.95	68.05	1.82	0.89	0.89	-829.28	-829.28
2250.00	46.97	68.08	1.82	0.89	0.89	-831.34	-831.34
2255.00	47.00	68.12	1.81	0.89	0.89	-833.39	-833.39
2260.00	47.03	68.15	1.81	0.89	0.89	-835.45	-835.45
2265.00	47.05	68.18	1.81	0.89	0.89	-837.51	-837.51
2270.00	47.08	68.22	1.80	0.89	0.89	-839.56	-839.56
2275.00	47.10	68.25	1.80	0.88	0.88	-841.62	-841.62
2280.00	47.13	68.28	1.80	0.88	0.88	-843.68	-843.68
2285.00	47.16	68.32	1.79	0.88	0.88	-845.73	-845.73
2290.00	47.18	68.35	1.79	0.88	0.88	-847.79	-847.79
2295.00	47.21	68.38	1.79	0.88	0.88	-849.85	-849.85
2300.00	47.23	68.41	1.78	0.88	0.88	-851.90	-851.90
2305.00	47.26	68.45	1.78	0.88	0.88	-853.96	-853.96
2310.00	47.29	68.48	1.78	0.87	0.87	-856.02	-856.02
2315.00	47.31	68.51	1.78	0.87	0.87	-858.07	-858.07
2320.00	47.34	68.55	1.77	0.87	0.87	-860.13	-860.13
2325.00	47.36	68.58	1.77	0.87	0.87	-862.19	-862.19
2330.00	47.39	68.61	1.77	0.87	0.87	-864.25	-864.25
2335.00	47.41	68.64	1.76	0.87	0.87	-866.30	-866.30
2340.00	47.44	68.68	1.76	0.87	0.87	-868.36	-868.36
2345.00	47.46	68.71	1.76	0.86	0.86	-870.42	-870.42
2350.00	47.49	68.74	1.76	0.86	0.86	-872.48	-872.48
2355.00	47.51	68.77	1.75	0.86	0.86	-874.53	-874.53
2360.00	47.54	68.80	1.75	0.86	0.86	-876.59	-876.59
2365.00	47.56	68.84	1.75	0.86	0.86	-878.65	-878.65
2370.00	47.59	68.87	1.74	0.86	0.86	-880.71	-880.71
2375.00	47.62	68.90	1.74	0.86	0.86	-882.77	-882.77
2380.00	47.64	68.93	1.74	0.85	0.85	-884.83	-884.83
2385.00	47.67	68.96	1.73	0.85	0.85	-886.88	-886.88
2390.00	47.69	69.00	1.73	0.85	0.85	-888.94	-888.94
2395.00	47.72	69.03	1.73	0.85	0.85	-891.00	-891.00
2400.00	47.74	69.06	1.73	0.85	0.85	-893.06	-893.06
2405.00	47.77	69.09	1.72	0.85	0.85	-895.12	-895.12
2410.00	47.79	69.12	1.72	0.85	0.85	-897.18	-897.18
2415.00	47.81	69.15	1.72	0.84	0.84	-899.24	-899.24
2420.00	47.84	69.19	1.72	0.84	0.84	-901.30	-901.30
2425.00	47.86	69.22	1.71	0.84	0.84	-903.36	-903.36
2430.00	47.89	69.25	1.71	0.84	0.84	-905.41	-905.41
2435.00	47.91	69.28	1.71	0.84	0.84	-907.47	-907.47
2440.00	47.94	69.31	1.70	0.84	0.84	-909.53	-909.53
2445.00	47.96	69.34	1.70	0.84	0.84	-911.59	-911.59
2450.00	47.99	69.37	1.70	0.83	0.83	-913.65	-913.65

2455.00	48.01	69.41	1.70	0.83	0.83	-915.71	-915.71
2460.00	48.04	69.44	1.69	0.83	0.83	-917.77	-917.77
2465.00	48.06	69.47	1.69	0.83	0.83	-919.83	-919.83
2470.00	48.09	69.50	1.69	0.83	0.83	-921.89	-921.89
2475.00	48.11	69.53	1.69	0.83	0.83	-923.95	-923.95
2480.00	48.13	69.56	1.68	0.83	0.83	-926.01	-926.01
2485.00	48.16	69.59	1.68	0.83	0.83	-928.07	-928.07
2490.00	48.18	69.62	1.68	0.82	0.82	-930.13	-930.13
2495.00	48.21	69.65	1.68	0.82	0.82	-932.20	-932.20
2500.00	48.23	69.68	1.67	0.82	0.82	-934.26	-934.26
2505.00	48.26	69.71	1.67	0.82	0.82	-936.32	-936.32
2510.00	48.28	69.75	1.67	0.82	0.82	-938.38	-938.38
2515.00	48.30	69.78	1.66	0.82	0.82	-940.44	-940.44
2520.00	48.33	69.81	1.66	0.82	0.82	-942.50	-942.50
2525.00	48.35	69.84	1.66	0.82	0.82	-944.56	-944.56
2530.00	48.38	69.87	1.66	0.81	0.81	-946.62	-946.62
2535.00	48.40	69.90	1.65	0.81	0.81	-948.68	-948.68
2540.00	48.42	69.93	1.65	0.81	0.81	-950.74	-950.74
2545.00	48.45	69.96	1.65	0.81	0.81	-952.81	-952.81
2550.00	48.47	69.99	1.65	0.81	0.81	-954.87	-954.87
2555.00	48.49	70.02	1.64	0.81	0.81	-956.93	-956.93
2560.00	48.52	70.05	1.64	0.81	0.81	-958.99	-958.99
2565.00	48.54	70.08	1.64	0.81	0.81	-961.05	-961.05
2570.00	48.57	70.11	1.64	0.80	0.80	-963.11	-963.11
2575.00	48.59	70.14	1.63	0.80	0.80	-965.18	-965.18
2580.00	48.61	70.17	1.63	0.80	0.80	-967.24	-967.24
2585.00	48.64	70.20	1.63	0.80	0.80	-969.30	-969.30
2590.00	48.66	70.23	1.63	0.80	0.80	-971.36	-971.36
2595.00	48.68	70.26	1.62	0.80	0.80	-973.42	-973.42
2600.00	48.71	70.29	1.62	0.80	0.80	-975.49	-975.49
2605.00	48.73	70.32	1.62	0.80	0.80	-977.55	-977.55
2610.00	48.75	70.35	1.62	0.79	0.79	-979.61	-979.61
2615.00	48.78	70.38	1.61	0.79	0.79	-981.67	-981.67
2620.00	48.80	70.41	1.61	0.79	0.79	-983.74	-983.74
2625.00	48.82	70.44	1.61	0.79	0.79	-985.80	-985.80
2630.00	48.85	70.47	1.61	0.79	0.79	-987.86	-987.86
2635.00	48.87	70.50	1.61	0.79	0.79	-989.93	-989.93
2640.00	48.89	70.53	1.60	0.79	0.79	-991.99	-991.99
2645.00	48.92	70.55	1.60	0.79	0.79	-994.05	-994.05
2650.00	48.94	70.58	1.60	0.79	0.79	-996.12	-996.12
2655.00	48.96	70.61	1.60	0.78	0.78	-998.18	-998.18
2660.00	48.99	70.64	1.59	0.78	0.78	-1000.24	-1000.24
2665.00	49.01	70.67	1.59	0.78	0.78	-1002.31	-1002.31
2670.00	49.03	70.70	1.59	0.78	0.78	-1004.37	-1004.37
2675.00	49.06	70.73	1.59	0.78	0.78	-1006.43	-1006.43
2680.00	49.08	70.76	1.58	0.78	0.78	-1008.50	-1008.50
2685.00	49.10	70.79	1.58	0.78	0.78	-1010.56	-1010.56
2690.00	49.12	70.82	1.58	0.78	0.78	-1012.62	-1012.62
2695.00	49.15	70.85	1.58	0.77	0.77	-1014.69	-1014.69
2700.00	49.17	70.87	1.57	0.77	0.77	-1016.75	-1016.75

2705.00	49.19	70.90	1.57	0.77	0.77	-1018.82	-1018.82
2710.00	49.22	70.93	1.57	0.77	0.77	-1020.88	-1020.88
2715.00	49.24	70.96	1.57	0.77	0.77	-1022.94	-1022.94
2720.00	49.26	70.99	1.57	0.77	0.77	-1025.01	-1025.01
2725.00	49.28	71.02	1.56	0.77	0.77	-1027.07	-1027.07
2730.00	49.31	71.05	1.56	0.77	0.77	-1029.14	-1029.14
2735.00	49.33	71.08	1.56	0.77	0.77	-1031.20	-1031.20
2740.00	49.35	71.10	1.56	0.76	0.76	-1033.27	-1033.27
2745.00	49.37	71.13	1.55	0.76	0.76	-1035.33	-1035.33
2750.00	49.40	71.16	1.55	0.76	0.76	-1037.39	-1037.39
2755.00	49.42	71.19	1.55	0.76	0.76	-1039.46	-1039.46
2760.00	49.44	71.22	1.55	0.76	0.76	-1041.52	-1041.52
2765.00	49.46	71.25	1.55	0.76	0.76	-1043.59	-1043.59
2770.00	49.49	71.27	1.54	0.76	0.76	-1045.65	-1045.65
2775.00	49.51	71.30	1.54	0.76	0.76	-1047.72	-1047.72
2780.00	49.53	71.33	1.54	0.76	0.76	-1049.78	-1049.78
2785.00	49.55	71.36	1.54	0.76	0.76	-1051.85	-1051.85
2790.00	49.58	71.39	1.54	0.75	0.75	-1053.91	-1053.91
2795.00	49.60	71.41	1.53	0.75	0.75	-1055.98	-1055.98
2800.00	49.62	71.44	1.53	0.75	0.75	-1058.05	-1058.05
2805.00	49.64	71.47	1.53	0.75	0.75	-1060.11	-1060.11
2810.00	49.66	71.50	1.53	0.75	0.75	-1062.18	-1062.18
2815.00	49.69	71.53	1.52	0.75	0.75	-1064.24	-1064.24
2820.00	49.71	71.55	1.52	0.75	0.75	-1066.31	-1066.31
2825.00	49.73	71.58	1.52	0.75	0.75	-1068.37	-1068.37
2830.00	49.75	71.61	1.52	0.75	0.75	-1070.44	-1070.44
2835.00	49.77	71.64	1.52	0.74	0.74	-1072.51	-1072.51
2840.00	49.80	71.67	1.51	0.74	0.74	-1074.57	-1074.57
2845.00	49.82	71.69	1.51	0.74	0.74	-1076.64	-1076.64
2850.00	49.84	71.72	1.51	0.74	0.74	-1078.70	-1078.70
2855.00	49.86	71.75	1.51	0.74	0.74	-1080.77	-1080.77
2860.00	49.88	71.78	1.51	0.74	0.74	-1082.84	-1082.84
2865.00	49.91	71.80	1.50	0.74	0.74	-1084.90	-1084.90
2870.00	49.93	71.83	1.50	0.74	0.74	-1086.97	-1086.97
2875.00	49.95	71.86	1.50	0.74	0.74	-1089.04	-1089.04
2880.00	49.97	71.89	1.50	0.74	0.74	-1091.10	-1091.10

Notes to User

Only values shown blue to be edited

Sheet only for england and wales

In M5-D	J0	J1	J2	Cr	In (MT-D/M5-D)	MT-D/M5-D
2.25	0.1699	0.0028	0.000114	0.206621	0.392827	1.481162
2.42	0.1644	0.005831	-0.00013	0.213115	0.405174	1.499563
2.54	0.1644	0.005831	-0.00013	0.216629	0.411855	1.509615
2.62	0.1644	0.005831	-0.00013	0.219078	0.41651	1.516659
2.68	0.1644	0.005831	-0.00013	0.220885	0.419947	1.52188
2.73	0.1644	0.005831	-0.00013	0.222271	0.422581	1.525895
2.77	0.1644	0.005831	-0.00013	0.223361	0.424653	1.52906
2.81	0.1644	0.005831	-0.00013	0.224233	0.426312	1.531599
2.84	0.1644	0.005831	-0.00013	0.22494	0.427656	1.533659
2.87	0.1644	0.005831	-0.00013	0.225518	0.428754	1.535343
2.90	0.1644	0.005831	-0.00013	0.225991	0.429654	1.536726
2.92	0.1644	0.005831	-0.00013	0.22638	0.430393	1.537862
2.94	0.1644	0.005831	-0.00013	0.226698	0.430999	1.538793
2.96	0.1644	0.005831	-0.00013	0.226958	0.431492	1.539553
2.98	0.1644	0.005831	-0.00013	0.227167	0.43189	1.540165
3.00	0.1644	0.005831	-0.00013	0.227333	0.432206	1.540652
3.02	0.1644	0.005831	-0.00013	0.227462	0.432451	1.54103
3.03	0.1644	0.005831	-0.00013	0.227559	0.432634	1.541313
3.05	0.1644	0.005831	-0.00013	0.227627	0.432764	1.541512
3.06	0.1644	0.005831	-0.00013	0.227669	0.432845	1.541637
3.07	0.1644	0.005831	-0.00013	0.22769	0.432883	1.541696
3.08	0.1644	0.005831	-0.00013	0.22769	0.432883	1.541697
3.10	0.1644	0.005831	-0.00013	0.227672	0.43285	1.541644
3.11	0.1644	0.005831	-0.00013	0.227638	0.432785	1.541545
3.12	0.1644	0.005831	-0.00013	0.22759	0.432693	1.541403
3.13	0.1644	0.005831	-0.00013	0.227528	0.432575	1.541222
3.14	0.1644	0.005831	-0.00013	0.227454	0.432435	1.541005
3.15	0.1644	0.005831	-0.00013	0.227369	0.432273	1.540756
3.16	0.1644	0.005831	-0.00013	0.227274	0.432093	1.540478
3.16	0.1644	0.005831	-0.00013	0.22717	0.431895	1.540173
3.17	0.1644	0.005831	-0.00013	0.227057	0.431681	1.539843
3.18	0.1644	0.005831	-0.00013	0.226937	0.431452	1.539491
3.19	0.1644	0.005831	-0.00013	0.226809	0.431209	1.539117
3.20	0.1644	0.005831	-0.00013	0.226675	0.430953	1.538724
3.20	0.1644	0.005831	-0.00013	0.226534	0.430686	1.538313
3.21	0.1644	0.005831	-0.00013	0.226388	0.430408	1.537885
3.22	0.1644	0.005831	-0.00013	0.226236	0.43012	1.537442
3.23	0.1644	0.005831	-0.00013	0.22608	0.429823	1.536985
3.23	0.1644	0.005831	-0.00013	0.225919	0.429516	1.536514

3.24	0.1644	0.005831	-0.00013	0.225753	0.429202	1.536031
3.25	0.1644	0.005831	-0.00013	0.225584	0.42888	1.535536
3.25	0.1644	0.005831	-0.00013	0.225411	0.42855	1.535031
3.26	0.1644	0.005831	-0.00013	0.225234	0.428215	1.534515
3.26	0.1644	0.005831	-0.00013	0.225054	0.427872	1.53399
3.27	0.1644	0.005831	-0.00013	0.224871	0.427524	1.533457
3.27	0.1644	0.005831	-0.00013	0.224685	0.427171	1.532915
3.28	0.1644	0.005831	-0.00013	0.224497	0.426812	1.532365
3.29	0.1644	0.005831	-0.00013	0.224305	0.426449	1.531808
3.29	0.1644	0.005831	-0.00013	0.224112	0.426081	1.531245
3.30	0.1644	0.005831	-0.00013	0.223916	0.425709	1.530675
3.30	0.1644	0.005831	-0.00013	0.223718	0.425333	1.530099
3.31	0.1644	0.005831	-0.00013	0.223518	0.424953	1.529518
3.31	0.1644	0.005831	-0.00013	0.223317	0.424569	1.528931
3.32	0.1644	0.005831	-0.00013	0.223113	0.424182	1.52834
3.32	0.1644	0.005831	-0.00013	0.222908	0.423792	1.527744
3.33	0.1644	0.005831	-0.00013	0.222701	0.423399	1.527144
3.33	0.1644	0.005831	-0.00013	0.222493	0.423003	1.526539
3.33	0.1644	0.005831	-0.00013	0.222283	0.422605	1.525931
3.34	0.1644	0.005831	-0.00013	0.222073	0.422204	1.525319
3.34	0.1644	0.005831	-0.00013	0.22186	0.4218	1.524704
3.35	0.1644	0.005831	-0.00013	0.221647	0.421395	1.524086
3.35	0.1644	0.005831	-0.00013	0.221433	0.420987	1.523465
3.36	0.1644	0.005831	-0.00013	0.221217	0.420578	1.522841
3.36	0.1644	0.005831	-0.00013	0.221001	0.420166	1.522214
3.36	0.1644	0.005831	-0.00013	0.220783	0.419753	1.521585
3.37	0.1644	0.005831	-0.00013	0.220565	0.419338	1.520954
3.37	0.1644	0.005831	-0.00013	0.220346	0.418921	1.520321
3.37	0.1644	0.005831	-0.00013	0.220126	0.418504	1.519686
3.38	0.1644	0.005831	-0.00013	0.219906	0.418084	1.519049
3.38	0.1644	0.005831	-0.00013	0.219684	0.417664	1.51841
3.39	0.1644	0.005831	-0.00013	0.219463	0.417242	1.517769
3.39	0.1644	0.005831	-0.00013	0.21924	0.416819	1.517127
3.39	0.1644	0.005831	-0.00013	0.219017	0.416394	1.516484
3.40	0.1644	0.005831	-0.00013	0.218793	0.415969	1.515839
3.40	0.1644	0.005831	-0.00013	0.218569	0.415543	1.515194
3.40	0.1644	0.005831	-0.00013	0.218345	0.415116	1.514547
3.41	0.1644	0.005831	-0.00013	0.21812	0.414688	1.513899
3.41	0.1644	0.005831	-0.00013	0.217894	0.41426	1.51325
3.41	0.1644	0.005831	-0.00013	0.217668	0.41383	1.5126
3.42	0.1644	0.005831	-0.00013	0.217442	0.4134	1.51195
3.42	0.1644	0.005831	-0.00013	0.217215	0.412969	1.511298
3.42	0.1644	0.005831	-0.00013	0.216988	0.412538	1.510647
3.43	0.1644	0.005831	-0.00013	0.216761	0.412106	1.509994
3.43	0.1644	0.005831	-0.00013	0.216534	0.411673	1.509341
3.43	0.1644	0.005831	-0.00013	0.216306	0.41124	1.508688
3.43	0.2644	-0.00162	3.15E-06	0.217164	0.412872	1.511152
3.44	0.2644	-0.00162	3.15E-06	0.217035	0.412626	1.51078
3.44	0.2644	-0.00162	3.15E-06	0.216906	0.412382	1.510411
3.44	0.2644	-0.00162	3.15E-06	0.216779	0.41214	1.510045

3.45	0.2644	-0.00162	3.15E-06	0.216653	0.4119	1.509683
3.45	0.2644	-0.00162	3.15E-06	0.216528	0.411662	1.509325
3.45	0.2644	-0.00162	3.15E-06	0.216404	0.411427	1.508969
3.45	0.2644	-0.00162	3.15E-06	0.216281	0.411193	1.508617
3.46	0.2644	-0.00162	3.15E-06	0.216159	0.410962	1.508267
3.46	0.2644	-0.00162	3.15E-06	0.216039	0.410732	1.507921
3.46	0.2644	-0.00162	3.15E-06	0.215919	0.410504	1.507578
3.46	0.2644	-0.00162	3.15E-06	0.2158	0.410278	1.507237
3.47	0.2644	-0.00162	3.15E-06	0.215682	0.410054	1.5069
3.47	0.2644	-0.00162	3.15E-06	0.215565	0.409832	1.506565
3.47	0.2644	-0.00162	3.15E-06	0.215449	0.409612	1.506233
3.47	0.2644	-0.00162	3.15E-06	0.215334	0.409393	1.505904
3.48	0.2644	-0.00162	3.15E-06	0.21522	0.409176	1.505577
3.48	0.2644	-0.00162	3.15E-06	0.215107	0.408961	1.505253
3.48	0.2644	-0.00162	3.15E-06	0.214995	0.408748	1.504932
3.48	0.2644	-0.00162	3.15E-06	0.214883	0.408536	1.504613
3.49	0.2644	-0.00162	3.15E-06	0.214773	0.408325	1.504296
3.49	0.2644	-0.00162	3.15E-06	0.214663	0.408116	1.503982
3.49	0.2644	-0.00162	3.15E-06	0.214554	0.407909	1.503671
3.49	0.2644	-0.00162	3.15E-06	0.214446	0.407704	1.503361
3.50	0.2644	-0.00162	3.15E-06	0.214338	0.407499	1.503054
3.50	0.2644	-0.00162	3.15E-06	0.214232	0.407297	1.50275
3.50	0.2644	-0.00162	3.15E-06	0.214126	0.407095	1.502447
3.50	0.2644	-0.00162	3.15E-06	0.214021	0.406895	1.502147
3.51	0.2644	-0.00162	3.15E-06	0.213916	0.406697	1.501849
3.51	0.2644	-0.00162	3.15E-06	0.213813	0.4065	1.501553
3.51	0.2644	-0.00162	3.15E-06	0.21371	0.406304	1.501259
3.51	0.2644	-0.00162	3.15E-06	0.213607	0.40611	1.500967
3.51	0.2644	-0.00162	3.15E-06	0.213506	0.405917	1.500678
3.52	0.2644	-0.00162	3.15E-06	0.213405	0.405725	1.50039
3.52	0.2644	-0.00162	3.15E-06	0.213305	0.405535	1.500104
3.52	0.2644	-0.00162	3.15E-06	0.213205	0.405345	1.49982
3.52	0.2644	-0.00162	3.15E-06	0.213106	0.405157	1.499538
3.52	0.2644	-0.00162	3.15E-06	0.213008	0.404971	1.499258
3.53	0.2644	-0.00162	3.15E-06	0.212911	0.404785	1.49898
3.53	0.2644	-0.00162	3.15E-06	0.212814	0.404601	1.498704
3.53	0.2644	-0.00162	3.15E-06	0.212717	0.404418	1.498429
3.53	0.2644	-0.00162	3.15E-06	0.212622	0.404235	1.498157
3.53	0.2644	-0.00162	3.15E-06	0.212526	0.404055	1.497886
3.54	0.2644	-0.00162	3.15E-06	0.212432	0.403875	1.497616
3.54	0.2644	-0.00162	3.15E-06	0.212338	0.403696	1.497349
3.54	0.2644	-0.00162	3.15E-06	0.212244	0.403519	1.497083
3.54	0.2644	-0.00162	3.15E-06	0.212152	0.403342	1.496819
3.54	0.2644	-0.00162	3.15E-06	0.212059	0.403167	1.496556
3.55	0.2644	-0.00162	3.15E-06	0.211968	0.402992	1.496295
3.55	0.2644	-0.00162	3.15E-06	0.211876	0.402819	1.496036
3.55	0.2644	-0.00162	3.15E-06	0.211786	0.402647	1.495778
3.55	0.2644	-0.00162	3.15E-06	0.211696	0.402475	1.495522
3.55	0.2644	-0.00162	3.15E-06	0.211606	0.402305	1.495267
3.56	0.2644	-0.00162	3.15E-06	0.211517	0.402136	1.495014

3.56	0.2644	-0.00162	3.15E-06	0.211428	0.401967	1.494762
3.56	0.2644	-0.00162	3.15E-06	0.21134	0.4018	1.494512
3.56	0.2644	-0.00162	3.15E-06	0.211253	0.401633	1.494263
3.56	0.2644	-0.00162	3.15E-06	0.211166	0.401468	1.494016
3.56	0.2644	-0.00162	3.15E-06	0.211079	0.401303	1.49377
3.57	0.2644	-0.00162	3.15E-06	0.210993	0.40114	1.493526
3.57	0.2644	-0.00162	3.15E-06	0.210907	0.400977	1.493282
3.57	0.2644	-0.00162	3.15E-06	0.210822	0.400815	1.493041
3.57	0.2644	-0.00162	3.15E-06	0.210738	0.400654	1.4928
3.57	0.2644	-0.00162	3.15E-06	0.210653	0.400494	1.492561
3.57	0.2644	-0.00162	3.15E-06	0.21057	0.400334	1.492323
3.58	0.2644	-0.00162	3.15E-06	0.210486	0.400176	1.492087
3.58	0.2644	-0.00162	3.15E-06	0.210403	0.400018	1.491852
3.58	0.2644	-0.00162	3.15E-06	0.210321	0.399861	1.491618
3.58	0.2644	-0.00162	3.15E-06	0.210239	0.399705	1.491385
3.58	0.2644	-0.00162	3.15E-06	0.210157	0.39955	1.491154
3.58	0.2644	-0.00162	3.15E-06	0.210076	0.399396	1.490923
3.59	0.2644	-0.00162	3.15E-06	0.209995	0.399242	1.490694
3.59	0.2644	-0.00162	3.15E-06	0.209915	0.399089	1.490467
3.59	0.2644	-0.00162	3.15E-06	0.209835	0.398937	1.49024
3.59	0.2644	-0.00162	3.15E-06	0.209755	0.398786	1.490014
3.59	0.2644	-0.00162	3.15E-06	0.209676	0.398635	1.48979
3.59	0.2644	-0.00162	3.15E-06	0.209597	0.398485	1.489567
3.60	0.2644	-0.00162	3.15E-06	0.209519	0.398336	1.489345
3.60	0.2644	-0.00162	3.15E-06	0.209441	0.398188	1.489124
3.60	0.2644	-0.00162	3.15E-06	0.209363	0.39804	1.488904
3.60	0.2644	-0.00162	3.15E-06	0.209286	0.397893	1.488685
3.60	0.2644	-0.00162	3.15E-06	0.209209	0.397747	1.488468
3.60	0.2644	-0.00162	3.15E-06	0.209132	0.397602	1.488251
3.60	0.2644	-0.00162	3.15E-06	0.209056	0.397457	1.488036
3.61	0.2644	-0.00162	3.15E-06	0.20898	0.397313	1.487821
3.61	0.2644	-0.00162	3.15E-06	0.208905	0.397169	1.487608
3.61	0.2644	-0.00162	3.15E-06	0.20883	0.397027	1.487395
3.61	0.2644	-0.00162	3.15E-06	0.208755	0.396884	1.487184
3.61	0.2644	-0.00162	3.15E-06	0.208681	0.396743	1.486974
3.61	0.2644	-0.00162	3.15E-06	0.208606	0.396602	1.486764
3.61	0.2644	-0.00162	3.15E-06	0.208533	0.396462	1.486556
3.62	0.2644	-0.00162	3.15E-06	0.208459	0.396322	1.486348
3.62	0.2644	-0.00162	3.15E-06	0.208386	0.396183	1.486142
3.62	0.2644	-0.00162	3.15E-06	0.208314	0.396045	1.485936
3.62	0.2644	-0.00162	3.15E-06	0.208241	0.395907	1.485732
3.62	0.2644	-0.00162	3.15E-06	0.208169	0.39577	1.485528
3.62	0.2644	-0.00162	3.15E-06	0.208097	0.395634	1.485325
3.62	0.2644	-0.00162	3.15E-06	0.208026	0.395498	1.485124
3.63	0.2644	-0.00162	3.15E-06	0.207955	0.395363	1.484923
3.63	0.2644	-0.00162	3.15E-06	0.207884	0.395228	1.484723
3.63	0.2644	-0.00162	3.15E-06	0.207813	0.395094	1.484524
3.63	0.2644	-0.00162	3.15E-06	0.207743	0.39496	1.484325
3.63	0.2644	-0.00162	3.15E-06	0.207673	0.394827	1.484128
3.63	0.2644	-0.00162	3.15E-06	0.207603	0.394695	1.483931

3.63	0.2644	-0.00162	3.15E-06	0.207534	0.394563	1.483736
3.64	0.2644	-0.00162	3.15E-06	0.207465	0.394432	1.483541
3.64	0.2644	-0.00162	3.15E-06	0.207396	0.394301	1.483347
3.64	0.2644	-0.00162	3.15E-06	0.207328	0.394171	1.483154
3.64	0.2644	-0.00162	3.15E-06	0.207259	0.394041	1.482962
3.64	0.2644	-0.00162	3.15E-06	0.207192	0.393912	1.48277
3.64	0.2644	-0.00162	3.15E-06	0.207124	0.393783	1.482579
3.64	0.2644	-0.00162	3.15E-06	0.207057	0.393655	1.48239
3.64	0.2644	-0.00162	3.15E-06	0.206989	0.393528	1.4822
3.65	0.2644	-0.00162	3.15E-06	0.206923	0.393401	1.482012
3.65	0.2644	-0.00162	3.15E-06	0.206856	0.393274	1.481825
3.65	0.2644	-0.00162	3.15E-06	0.20679	0.393148	1.481638
3.65	0.2644	-0.00162	3.15E-06	0.206724	0.393023	1.481452
3.65	0.2644	-0.00162	3.15E-06	0.206658	0.392898	1.481267
3.65	0.2644	-0.00162	3.15E-06	0.206592	0.392773	1.481082
3.65	0.2644	-0.00162	3.15E-06	0.206527	0.392649	1.480898
3.65	0.2644	-0.00162	3.15E-06	0.206462	0.392525	1.480715
3.66	0.2644	-0.00162	3.15E-06	0.206397	0.392402	1.480533
3.66	0.2644	-0.00162	3.15E-06	0.206333	0.39228	1.480352
3.66	0.2644	-0.00162	3.15E-06	0.206269	0.392157	1.480171
3.66	0.2644	-0.00162	3.15E-06	0.206205	0.392036	1.479991
3.66	0.2644	-0.00162	3.15E-06	0.206141	0.391915	1.479811
3.66	0.2644	-0.00162	3.15E-06	0.206077	0.391794	1.479633
3.66	0.2644	-0.00162	3.15E-06	0.206014	0.391674	1.479455
3.66	0.2644	-0.00162	3.15E-06	0.205951	0.391554	1.479277
3.67	0.2644	-0.00162	3.15E-06	0.205888	0.391434	1.479101
3.67	0.2644	-0.00162	3.15E-06	0.205826	0.391315	1.478925
3.67	0.2644	-0.00162	3.15E-06	0.205763	0.391197	1.478749
3.67	0.2644	-0.00162	3.15E-06	0.205701	0.391079	1.478575
3.67	0.2644	-0.00162	3.15E-06	0.205639	0.390961	1.478401
3.67	0.2644	-0.00162	3.15E-06	0.205578	0.390844	1.478228
3.67	0.2644	-0.00162	3.15E-06	0.205516	0.390727	1.478055
3.67	0.2644	-0.00162	3.15E-06	0.205455	0.390611	1.477883
3.67	0.2644	-0.00162	3.15E-06	0.205394	0.390495	1.477711
3.68	0.2644	-0.00162	3.15E-06	0.205333	0.390379	1.477541
3.68	0.2644	-0.00162	3.15E-06	0.205273	0.390264	1.477371
3.68	0.2644	-0.00162	3.15E-06	0.205212	0.390149	1.477201
3.68	0.2644	-0.00162	3.15E-06	0.205152	0.390035	1.477032
3.68	0.2644	-0.00162	3.15E-06	0.205092	0.389921	1.476864
3.68	0.2644	-0.00162	3.15E-06	0.205033	0.389807	1.476696
3.68	0.2644	-0.00162	3.15E-06	0.204973	0.389694	1.476529
3.68	0.2644	-0.00162	3.15E-06	0.204914	0.389582	1.476363
3.68	0.2644	-0.00162	3.15E-06	0.204855	0.389469	1.476197
3.69	0.2644	-0.00162	3.15E-06	0.204796	0.389357	1.476032
3.69	0.2644	-0.00162	3.15E-06	0.204737	0.389246	1.475867
3.69	0.2644	-0.00162	3.15E-06	0.204679	0.389135	1.475703
3.69	0.2644	-0.00162	3.15E-06	0.20462	0.389024	1.47554
3.69	0.2644	-0.00162	3.15E-06	0.204562	0.388913	1.475377
3.69	0.2644	-0.00162	3.15E-06	0.204504	0.388803	1.475214
3.69	0.2644	-0.00162	3.15E-06	0.204447	0.388694	1.475052

3.69	0.2644	-0.00162	3.15E-06	0.204389	0.388584	1.474891
3.69	0.2644	-0.00162	3.15E-06	0.204332	0.388475	1.47473
3.69	0.2644	-0.00162	3.15E-06	0.204275	0.388367	1.47457
3.70	0.2644	-0.00162	3.15E-06	0.204218	0.388258	1.474411
3.70	0.2644	-0.00162	3.15E-06	0.204161	0.388151	1.474252
3.70	0.2644	-0.00162	3.15E-06	0.204105	0.388043	1.474093
3.70	0.2644	-0.00162	3.15E-06	0.204048	0.387936	1.473935
3.70	0.2644	-0.00162	3.15E-06	0.203992	0.387829	1.473778
3.70	0.2644	-0.00162	3.15E-06	0.203936	0.387722	1.473621
3.70	0.2644	-0.00162	3.15E-06	0.20388	0.387616	1.473464
3.70	0.2644	-0.00162	3.15E-06	0.203824	0.387511	1.473309
3.70	0.2644	-0.00162	3.15E-06	0.203769	0.387405	1.473153
3.70	0.2644	-0.00162	3.15E-06	0.203714	0.3873	1.472998
3.71	0.2644	-0.00162	3.15E-06	0.203659	0.387195	1.472844
3.71	0.2644	-0.00162	3.15E-06	0.203604	0.387091	1.47269
3.71	0.2644	-0.00162	3.15E-06	0.203549	0.386987	1.472537
3.71	0.2644	-0.00162	3.15E-06	0.203494	0.386883	1.472384
3.71	0.2644	-0.00162	3.15E-06	0.20344	0.386779	1.472232
3.71	0.2644	-0.00162	3.15E-06	0.203386	0.386676	1.47208
3.71	0.2644	-0.00162	3.15E-06	0.203332	0.386573	1.471928
3.71	0.2644	-0.00162	3.15E-06	0.203278	0.386471	1.471777
3.71	0.2644	-0.00162	3.15E-06	0.203224	0.386369	1.471627
3.71	0.2644	-0.00162	3.15E-06	0.20317	0.386267	1.471477
3.72	0.2644	-0.00162	3.15E-06	0.203117	0.386165	1.471328
3.72	0.2644	-0.00162	3.15E-06	0.203064	0.386064	1.471179
3.72	0.2644	-0.00162	3.15E-06	0.20301	0.385963	1.47103
3.72	0.2644	-0.00162	3.15E-06	0.202957	0.385862	1.470882
3.72	0.2644	-0.00162	3.15E-06	0.202905	0.385762	1.470734
3.72	0.2644	-0.00162	3.15E-06	0.202852	0.385662	1.470587
3.72	0.2644	-0.00162	3.15E-06	0.2028	0.385562	1.470441
3.72	0.2644	-0.00162	3.15E-06	0.202747	0.385463	1.470294
3.72	0.2644	-0.00162	3.15E-06	0.202695	0.385364	1.470149
3.72	0.2644	-0.00162	3.15E-06	0.202643	0.385265	1.470003
3.73	0.2644	-0.00162	3.15E-06	0.202591	0.385166	1.469858
3.73	0.2644	-0.00162	3.15E-06	0.20254	0.385068	1.469714
3.73	0.2644	-0.00162	3.15E-06	0.202488	0.38497	1.46957
3.73	0.2644	-0.00162	3.15E-06	0.202437	0.384872	1.469426
3.73	0.2644	-0.00162	3.15E-06	0.202385	0.384775	1.469283
3.73	0.2644	-0.00162	3.15E-06	0.202334	0.384677	1.46914
3.73	0.2644	-0.00162	3.15E-06	0.202283	0.384581	1.468998
3.73	0.2644	-0.00162	3.15E-06	0.202233	0.384484	1.468856
3.73	0.2644	-0.00162	3.15E-06	0.202182	0.384388	1.468715
3.73	0.2644	-0.00162	3.15E-06	0.202131	0.384292	1.468574
3.73	0.2644	-0.00162	3.15E-06	0.202081	0.384196	1.468433
3.73	0.2644	-0.00162	3.15E-06	0.202031	0.3841	1.468293
3.74	0.2644	-0.00162	3.15E-06	0.201981	0.384005	1.468153
3.74	0.2644	-0.00162	3.15E-06	0.201931	0.38391	1.468014
3.74	0.2644	-0.00162	3.15E-06	0.201881	0.383816	1.467875
3.74	0.2644	-0.00162	3.15E-06	0.201831	0.383721	1.467736
3.74	0.2644	-0.00162	3.15E-06	0.201782	0.383627	1.467598

3.74	0.2644	-0.00162	3.15E-06	0.201732	0.383533	1.46746
3.74	0.2644	-0.00162	3.15E-06	0.201683	0.383439	1.467323
3.74	0.2644	-0.00162	3.15E-06	0.201634	0.383346	1.467186
3.74	0.2644	-0.00162	3.15E-06	0.201585	0.383253	1.467049
3.74	0.2644	-0.00162	3.15E-06	0.201536	0.38316	1.466913
3.74	0.2644	-0.00162	3.15E-06	0.201487	0.383067	1.466777
3.75	0.2644	-0.00162	3.15E-06	0.201439	0.382975	1.466641
3.75	0.2644	-0.00162	3.15E-06	0.20139	0.382883	1.466506
3.75	0.2644	-0.00162	3.15E-06	0.201342	0.382791	1.466372
3.75	0.2644	-0.00162	3.15E-06	0.201294	0.382699	1.466237
3.75	0.2644	-0.00162	3.15E-06	0.201246	0.382608	1.466103
3.75	0.2644	-0.00162	3.15E-06	0.201198	0.382517	1.46597
3.75	0.2644	-0.00162	3.15E-06	0.20115	0.382426	1.465837
3.75	0.2644	-0.00162	3.15E-06	0.201102	0.382335	1.465704
3.75	0.2644	-0.00162	3.15E-06	0.201055	0.382245	1.465571
3.75	0.2644	-0.00162	3.15E-06	0.201007	0.382155	1.465439
3.75	0.2644	-0.00162	3.15E-06	0.20096	0.382065	1.465307
3.75	0.2644	-0.00162	3.15E-06	0.200913	0.381975	1.465176
3.76	0.2644	-0.00162	3.15E-06	0.200866	0.381886	1.465045
3.76	0.2644	-0.00162	3.15E-06	0.200819	0.381797	1.464914
3.76	0.2644	-0.00162	3.15E-06	0.200772	0.381708	1.464784
3.76	0.2644	-0.00162	3.15E-06	0.200726	0.381619	1.464654
3.76	0.2644	-0.00162	3.15E-06	0.200679	0.38153	1.464524
3.76	0.2644	-0.00162	3.15E-06	0.200632	0.381442	1.464395
3.76	0.2644	-0.00162	3.15E-06	0.200586	0.381354	1.464266
3.76	0.2644	-0.00162	3.15E-06	0.20054	0.381266	1.464137
3.76	0.2644	-0.00162	3.15E-06	0.200494	0.381178	1.464009
3.76	0.2644	-0.00162	3.15E-06	0.200448	0.381091	1.463881
3.76	0.2644	-0.00162	3.15E-06	0.200402	0.381004	1.463753
3.76	0.2644	-0.00162	3.15E-06	0.200356	0.380917	1.463626
3.76	0.2644	-0.00162	3.15E-06	0.200311	0.38083	1.463499
3.77	0.2644	-0.00162	3.15E-06	0.200265	0.380744	1.463372
3.77	0.2644	-0.00162	3.15E-06	0.20022	0.380657	1.463246
3.77	0.2644	-0.00162	3.15E-06	0.200174	0.380571	1.46312
3.77	0.2644	-0.00162	3.15E-06	0.200129	0.380485	1.462994
3.77	0.2644	-0.00162	3.15E-06	0.200084	0.3804	1.462869
3.77	0.2644	-0.00162	3.15E-06	0.200039	0.380314	1.462744
3.77	0.2644	-0.00162	3.15E-06	0.199994	0.380229	1.462619
3.77	0.2644	-0.00162	3.15E-06	0.19995	0.380144	1.462495
3.77	0.2644	-0.00162	3.15E-06	0.199905	0.380059	1.462371
3.77	0.2644	-0.00162	3.15E-06	0.199861	0.379974	1.462247
3.77	0.2644	-0.00162	3.15E-06	0.199816	0.37989	1.462124
3.77	0.2644	-0.00162	3.15E-06	0.199772	0.379806	1.462001
3.77	0.2644	-0.00162	3.15E-06	0.199728	0.379722	1.461878
3.78	0.2644	-0.00162	3.15E-06	0.199684	0.379638	1.461755
3.78	0.2644	-0.00162	3.15E-06	0.19964	0.379554	1.461633
3.78	0.2644	-0.00162	3.15E-06	0.199596	0.379471	1.461511
3.78	0.2644	-0.00162	3.15E-06	0.199552	0.379388	1.46139
3.78	0.2644	-0.00162	3.15E-06	0.199508	0.379305	1.461268
3.78	0.2644	-0.00162	3.15E-06	0.199465	0.379222	1.461147

3.78	0.2644	-0.00162	3.15E-06	0.199421	0.379139	1.461027
3.78	0.2644	-0.00162	3.15E-06	0.199378	0.379057	1.460906
3.78	0.2644	-0.00162	3.15E-06	0.199335	0.378975	1.460786
3.78	0.2644	-0.00162	3.15E-06	0.199292	0.378893	1.460666
3.78	0.2644	-0.00162	3.15E-06	0.199249	0.378811	1.460547
3.78	0.2644	-0.00162	3.15E-06	0.199206	0.378729	1.460428
3.78	0.2644	-0.00162	3.15E-06	0.199163	0.378648	1.460309
3.79	0.2644	-0.00162	3.15E-06	0.19912	0.378567	1.46019
3.79	0.2644	-0.00162	3.15E-06	0.199077	0.378485	1.460072
3.79	0.2644	-0.00162	3.15E-06	0.199035	0.378405	1.459953
3.79	0.2644	-0.00162	3.15E-06	0.198992	0.378324	1.459836
3.79	0.2644	-0.00162	3.15E-06	0.19895	0.378243	1.459718
3.79	0.2644	-0.00162	3.15E-06	0.198908	0.378163	1.459601
3.79	0.2644	-0.00162	3.15E-06	0.198866	0.378083	1.459484
3.79	0.2644	-0.00162	3.15E-06	0.198824	0.378003	1.459367
3.79	0.2644	-0.00162	3.15E-06	0.198782	0.377923	1.459251
3.79	0.2644	-0.00162	3.15E-06	0.19874	0.377843	1.459135
3.79	0.2644	-0.00162	3.15E-06	0.198698	0.377764	1.459019
3.79	0.2644	-0.00162	3.15E-06	0.198656	0.377685	1.458903
3.79	0.2644	-0.00162	3.15E-06	0.198615	0.377606	1.458788
3.79	0.2644	-0.00162	3.15E-06	0.198573	0.377527	1.458673
3.80	0.2644	-0.00162	3.15E-06	0.198532	0.377448	1.458558
3.80	0.2644	-0.00162	3.15E-06	0.198491	0.37737	1.458443
3.80	0.2644	-0.00162	3.15E-06	0.198449	0.377291	1.458329
3.80	0.2644	-0.00162	3.15E-06	0.198408	0.377213	1.458215
3.80	0.2644	-0.00162	3.15E-06	0.198367	0.377135	1.458101
3.80	0.2644	-0.00162	3.15E-06	0.198326	0.377057	1.457988
3.80	0.2644	-0.00162	3.15E-06	0.198285	0.37698	1.457874
3.80	0.2644	-0.00162	3.15E-06	0.198245	0.376902	1.457762
3.80	0.2644	-0.00162	3.15E-06	0.198204	0.376825	1.457649
3.80	0.2644	-0.00162	3.15E-06	0.198163	0.376748	1.457536
3.80	0.2644	-0.00162	3.15E-06	0.198123	0.376671	1.457424
3.80	0.2644	-0.00162	3.15E-06	0.198082	0.376594	1.457312
3.80	0.2644	-0.00162	3.15E-06	0.198042	0.376517	1.4572
3.80	0.2644	-0.00162	3.15E-06	0.198002	0.376441	1.457089
3.80	0.2644	-0.00162	3.15E-06	0.197962	0.376364	1.456978
3.81	0.2644	-0.00162	3.15E-06	0.197922	0.376288	1.456867
3.81	0.2644	-0.00162	3.15E-06	0.197882	0.376212	1.456756
3.81	0.2644	-0.00162	3.15E-06	0.197842	0.376136	1.456646
3.81	0.2644	-0.00162	3.15E-06	0.197802	0.376061	1.456535
3.81	0.2644	-0.00162	3.15E-06	0.197762	0.375985	1.456425
3.81	0.2644	-0.00162	3.15E-06	0.197723	0.37591	1.456316
3.81	0.2644	-0.00162	3.15E-06	0.197683	0.375834	1.456206
3.81	0.2644	-0.00162	3.15E-06	0.197644	0.375759	1.456097
3.81	0.2644	-0.00162	3.15E-06	0.197604	0.375685	1.455988
3.81	0.2644	-0.00162	3.15E-06	0.197565	0.37561	1.455879
3.81	0.2644	-0.00162	3.15E-06	0.197526	0.375535	1.45577
3.81	0.2644	-0.00162	3.15E-06	0.197487	0.375461	1.455662
3.81	0.2644	-0.00162	3.15E-06	0.197447	0.375387	1.455554
3.81	0.2644	-0.00162	3.15E-06	0.197408	0.375312	1.455446

3.81	0.2644	-0.00162	3.15E-06	0.19737	0.375239	1.455338
3.81	0.2644	-0.00162	3.15E-06	0.197331	0.375165	1.455231
3.82	0.2644	-0.00162	3.15E-06	0.197292	0.375091	1.455124
3.82	0.2644	-0.00162	3.15E-06	0.197253	0.375018	1.455017
3.82	0.2644	-0.00162	3.15E-06	0.197215	0.374944	1.45491
3.82	0.2644	-0.00162	3.15E-06	0.197176	0.374871	1.454804
3.82	0.2644	-0.00162	3.15E-06	0.197138	0.374798	1.454698
3.82	0.2644	-0.00162	3.15E-06	0.1971	0.374725	1.454591
3.82	0.2644	-0.00162	3.15E-06	0.197061	0.374652	1.454486
3.82	0.2644	-0.00162	3.15E-06	0.197023	0.37458	1.45438
3.82	0.2644	-0.00162	3.15E-06	0.196985	0.374507	1.454275
3.82	0.2644	-0.00162	3.15E-06	0.196947	0.374435	1.45417
3.82	0.2644	-0.00162	3.15E-06	0.196909	0.374363	1.454065
3.82	0.2644	-0.00162	3.15E-06	0.196871	0.374291	1.45396
3.82	0.2644	-0.00162	3.15E-06	0.196833	0.374219	1.453855
3.82	0.2644	-0.00162	3.15E-06	0.196796	0.374147	1.453751
3.82	0.2644	-0.00162	3.15E-06	0.196758	0.374076	1.453647
3.83	0.2644	-0.00162	3.15E-06	0.19672	0.374004	1.453543
3.83	0.2644	-0.00162	3.15E-06	0.196683	0.373933	1.45344
3.83	0.2644	-0.00162	3.15E-06	0.196645	0.373862	1.453336
3.83	0.2644	-0.00162	3.15E-06	0.196608	0.373791	1.453233
3.83	0.2644	-0.00162	3.15E-06	0.196571	0.37372	1.45313
3.83	0.2644	-0.00162	3.15E-06	0.196534	0.373649	1.453027
3.83	0.2644	-0.00162	3.15E-06	0.196496	0.373578	1.452925
3.83	0.2644	-0.00162	3.15E-06	0.196459	0.373508	1.452822
3.83	0.2644	-0.00162	3.15E-06	0.196422	0.373438	1.45272
3.83	0.2644	-0.00162	3.15E-06	0.196385	0.373367	1.452618
3.83	0.2644	-0.00162	3.15E-06	0.196349	0.373297	1.452516
3.83	0.2644	-0.00162	3.15E-06	0.196312	0.373227	1.452415
3.83	0.2644	-0.00162	3.15E-06	0.196275	0.373158	1.452313
3.83	0.2644	-0.00162	3.15E-06	0.196238	0.373088	1.452212
3.83	0.2644	-0.00162	3.15E-06	0.196202	0.373019	1.452111
3.83	0.2644	-0.00162	3.15E-06	0.196165	0.372949	1.45201
3.83	0.2644	-0.00162	3.15E-06	0.196129	0.37288	1.45191
3.84	0.2644	-0.00162	3.15E-06	0.196093	0.372811	1.45181
3.84	0.2644	-0.00162	3.15E-06	0.196056	0.372742	1.451709
3.84	0.2644	-0.00162	3.15E-06	0.19602	0.372673	1.451609
3.84	0.2644	-0.00162	3.15E-06	0.195984	0.372604	1.45151
3.84	0.2644	-0.00162	3.15E-06	0.195948	0.372536	1.45141
3.84	0.2644	-0.00162	3.15E-06	0.195912	0.372467	1.451311
3.84	0.2644	-0.00162	3.15E-06	0.195876	0.372399	1.451212
3.84	0.2644	-0.00162	3.15E-06	0.19584	0.372331	1.451113
3.84	0.2644	-0.00162	3.15E-06	0.195804	0.372262	1.451014
3.84	0.2644	-0.00162	3.15E-06	0.195768	0.372195	1.450915
3.84	0.2644	-0.00162	3.15E-06	0.195733	0.372127	1.450817
3.84	0.2644	-0.00162	3.15E-06	0.195697	0.372059	1.450719
3.84	0.2644	-0.00162	3.15E-06	0.195662	0.371991	1.450621
3.84	0.2644	-0.00162	3.15E-06	0.195626	0.371924	1.450523
3.84	0.2644	-0.00162	3.15E-06	0.195591	0.371857	1.450425
3.84	0.2644	-0.00162	3.15E-06	0.195555	0.371789	1.450328

3.84	0.2644	-0.00162	3.15E-06	0.19552	0.371722	1.45023
3.85	0.2644	-0.00162	3.15E-06	0.195485	0.371655	1.450133
3.85	0.2644	-0.00162	3.15E-06	0.19545	0.371589	1.450036
3.85	0.2644	-0.00162	3.15E-06	0.195415	0.371522	1.44994
3.85	0.2644	-0.00162	3.15E-06	0.19538	0.371455	1.449843
3.85	0.2644	-0.00162	3.15E-06	0.195345	0.371389	1.449747
3.85	0.2644	-0.00162	3.15E-06	0.19531	0.371322	1.44965
3.85	0.2644	-0.00162	3.15E-06	0.195275	0.371256	1.449554
3.85	0.2644	-0.00162	3.15E-06	0.19524	0.37119	1.449459
3.85	0.2644	-0.00162	3.15E-06	0.195205	0.371124	1.449363
3.85	0.2644	-0.00162	3.15E-06	0.195171	0.371058	1.449268
3.85	0.2644	-0.00162	3.15E-06	0.195136	0.370993	1.449172
3.85	0.2644	-0.00162	3.15E-06	0.195102	0.370927	1.449077
3.85	0.2644	-0.00162	3.15E-06	0.195067	0.370861	1.448982
3.85	0.2644	-0.00162	3.15E-06	0.195033	0.370796	1.448887
3.85	0.2644	-0.00162	3.15E-06	0.194999	0.370731	1.448793
3.85	0.2644	-0.00162	3.15E-06	0.194964	0.370666	1.448698
3.85	0.2644	-0.00162	3.15E-06	0.19493	0.3706	1.448604
3.85	0.2644	-0.00162	3.15E-06	0.194896	0.370536	1.44851
3.86	0.2644	-0.00162	3.15E-06	0.194862	0.370471	1.448416
3.86	0.2644	-0.00162	3.15E-06	0.194828	0.370406	1.448323
3.86	0.2644	-0.00162	3.15E-06	0.194794	0.370341	1.448229
3.86	0.2644	-0.00162	3.15E-06	0.19476	0.370277	1.448136
3.86	0.2644	-0.00162	3.15E-06	0.194726	0.370213	1.448042
3.86	0.2644	-0.00162	3.15E-06	0.194692	0.370148	1.447949
3.86	0.2644	-0.00162	3.15E-06	0.194658	0.370084	1.447856
3.86	0.2644	-0.00162	3.15E-06	0.194625	0.37002	1.447764
3.86	0.2644	-0.00162	3.15E-06	0.194591	0.369956	1.447671
3.86	0.2644	-0.00162	3.15E-06	0.194558	0.369892	1.447579
3.86	0.2644	-0.00162	3.15E-06	0.194524	0.369829	1.447487
3.86	0.2644	-0.00162	3.15E-06	0.194491	0.369765	1.447395
3.86	0.2644	-0.00162	3.15E-06	0.194457	0.369702	1.447303
3.86	0.2644	-0.00162	3.15E-06	0.194424	0.369638	1.447211
3.86	0.2644	-0.00162	3.15E-06	0.194391	0.369575	1.447119
3.86	0.2644	-0.00162	3.15E-06	0.194357	0.369512	1.447028
3.86	0.2644	-0.00162	3.15E-06	0.194324	0.369449	1.446937
3.86	0.2644	-0.00162	3.15E-06	0.194291	0.369386	1.446846
3.86	0.2644	-0.00162	3.15E-06	0.194258	0.369323	1.446755
3.87	0.2644	-0.00162	3.15E-06	0.194225	0.36926	1.446664
3.87	0.2644	-0.00162	3.15E-06	0.194192	0.369198	1.446574
3.87	0.2644	-0.00162	3.15E-06	0.194159	0.369135	1.446483
3.87	0.2644	-0.00162	3.15E-06	0.194126	0.369073	1.446393
3.87	0.2644	-0.00162	3.15E-06	0.194094	0.36901	1.446303
3.87	0.2644	-0.00162	3.15E-06	0.194061	0.368948	1.446213
3.87	0.2644	-0.00162	3.15E-06	0.194028	0.368886	1.446123
3.87	0.2644	-0.00162	3.15E-06	0.193996	0.368824	1.446033
3.87	0.2644	-0.00162	3.15E-06	0.193963	0.368762	1.445944
3.87	0.2644	-0.00162	3.15E-06	0.193931	0.3687	1.445855
3.87	0.2644	-0.00162	3.15E-06	0.193898	0.368639	1.445765
3.87	0.2644	-0.00162	3.15E-06	0.193866	0.368577	1.445676

3.87	0.2644	-0.00162	3.15E-06	0.193834	0.368516	1.445587
3.87	0.2644	-0.00162	3.15E-06	0.193801	0.368454	1.445499
3.87	0.2644	-0.00162	3.15E-06	0.193769	0.368393	1.44541
3.87	0.2644	-0.00162	3.15E-06	0.193737	0.368332	1.445322
3.87	0.2644	-0.00162	3.15E-06	0.193705	0.368271	1.445233
3.87	0.2644	-0.00162	3.15E-06	0.193673	0.36821	1.445145
3.87	0.2644	-0.00162	3.15E-06	0.193641	0.368149	1.445057
3.88	0.2644	-0.00162	3.15E-06	0.193609	0.368088	1.44497
3.88	0.2644	-0.00162	3.15E-06	0.193577	0.368028	1.444882
3.88	0.2644	-0.00162	3.15E-06	0.193545	0.367967	1.444794
3.88	0.2644	-0.00162	3.15E-06	0.193513	0.367907	1.444707
3.88	0.2644	-0.00162	3.15E-06	0.193481	0.367846	1.44462
3.88	0.2644	-0.00162	3.15E-06	0.19345	0.367786	1.444533
3.88	0.2644	-0.00162	3.15E-06	0.193418	0.367726	1.444446
3.88	0.2644	-0.00162	3.15E-06	0.193386	0.367666	1.444359
3.88	0.2644	-0.00162	3.15E-06	0.193355	0.367606	1.444272
3.88	0.2644	-0.00162	3.15E-06	0.193323	0.367546	1.444186
3.88	0.2644	-0.00162	3.15E-06	0.193292	0.367486	1.444099
3.88	0.2644	-0.00162	3.15E-06	0.19326	0.367426	1.444013
3.88	0.2644	-0.00162	3.15E-06	0.193229	0.367367	1.443927
3.88	0.2644	-0.00162	3.15E-06	0.193198	0.367307	1.443841
3.88	0.2644	-0.00162	3.15E-06	0.193166	0.367248	1.443755
3.88	0.2644	-0.00162	3.15E-06	0.193135	0.367188	1.44367
3.88	0.2644	-0.00162	3.15E-06	0.193104	0.367129	1.443584
3.88	0.2644	-0.00162	3.15E-06	0.193073	0.36707	1.443499
3.88	0.2644	-0.00162	3.15E-06	0.193042	0.367011	1.443414
3.88	0.2644	-0.00162	3.15E-06	0.193011	0.366952	1.443329
3.88	0.2644	-0.00162	3.15E-06	0.19298	0.366893	1.443244
3.89	0.2644	-0.00162	3.15E-06	0.192949	0.366834	1.443159
3.89	0.2644	-0.00162	3.15E-06	0.192918	0.366776	1.443074
3.89	0.2644	-0.00162	3.15E-06	0.192887	0.366717	1.44299
3.89	0.2644	-0.00162	3.15E-06	0.192857	0.366659	1.442905
3.89	0.2644	-0.00162	3.15E-06	0.192826	0.3666	1.442821
3.89	0.2644	-0.00162	3.15E-06	0.192795	0.366542	1.442737
3.89	0.2644	-0.00162	3.15E-06	0.192765	0.366484	1.442653
3.89	0.2644	-0.00162	3.15E-06	0.192734	0.366425	1.442569
3.89	0.2644	-0.00162	3.15E-06	0.192704	0.366367	1.442485
3.89	0.2644	-0.00162	3.15E-06	0.192673	0.36631	1.442402
3.89	0.2644	-0.00162	3.15E-06	0.192643	0.366252	1.442318
3.89	0.2644	-0.00162	3.15E-06	0.192612	0.366194	1.442235
3.89	0.2644	-0.00162	3.15E-06	0.192582	0.366136	1.442152
3.89	0.2644	-0.00162	3.15E-06	0.192552	0.366079	1.442069
3.89	0.2644	-0.00162	3.15E-06	0.192521	0.366021	1.441986
3.89	0.2644	-0.00162	3.15E-06	0.192491	0.365964	1.441903
3.89	0.2644	-0.00162	3.15E-06	0.192461	0.365906	1.44182
3.89	0.2644	-0.00162	3.15E-06	0.192431	0.365849	1.441738
3.89	0.2644	-0.00162	3.15E-06	0.192401	0.365792	1.441655
3.89	0.2644	-0.00162	3.15E-06	0.192371	0.365735	1.441573
3.89	0.2644	-0.00162	3.15E-06	0.192341	0.365678	1.441491
3.90	0.2644	-0.00162	3.15E-06	0.192311	0.365621	1.441409

3.90	0.2644	-0.00162	3.15E-06	0.192281	0.365564	1.441327
3.90	0.2644	-0.00162	3.15E-06	0.192251	0.365507	1.441245
3.90	0.2644	-0.00162	3.15E-06	0.192221	0.365451	1.441163
3.90	0.2644	-0.00162	3.15E-06	0.192192	0.365394	1.441082
3.90	0.2644	-0.00162	3.15E-06	0.192162	0.365338	1.441001
3.90	0.2644	-0.00162	3.15E-06	0.192132	0.365281	1.440919
3.90	0.2644	-0.00162	3.15E-06	0.192103	0.365225	1.440838
3.90	0.2644	-0.00162	3.15E-06	0.192073	0.365169	1.440757
3.90	0.2644	-0.00162	3.15E-06	0.192044	0.365113	1.440676
3.90	0.2644	-0.00162	3.15E-06	0.192014	0.365057	1.440596
3.90	0.2644	-0.00162	3.15E-06	0.191985	0.365001	1.440515
3.90	0.2644	-0.00162	3.15E-06	0.191955	0.364945	1.440434
3.90	0.2644	-0.00162	3.15E-06	0.191926	0.364889	1.440354
3.90	0.2644	-0.00162	3.15E-06	0.191897	0.364833	1.440274
3.90	0.2644	-0.00162	3.15E-06	0.191867	0.364778	1.440194
3.90	0.2644	-0.00162	3.15E-06	0.191838	0.364722	1.440114
3.90	0.2644	-0.00162	3.15E-06	0.191809	0.364667	1.440034
3.90	0.2644	-0.00162	3.15E-06	0.19178	0.364611	1.439954
3.90	0.2644	-0.00162	3.15E-06	0.191751	0.364556	1.439874
3.90	0.2644	-0.00162	3.15E-06	0.191722	0.364501	1.439795
3.90	0.2644	-0.00162	3.15E-06	0.191693	0.364445	1.439715
3.91	0.2644	-0.00162	3.15E-06	0.191664	0.36439	1.439636
3.91	0.2644	-0.00162	3.15E-06	0.191635	0.364335	1.439557
3.91	0.2644	-0.00162	3.15E-06	0.191606	0.36428	1.439478
3.91	0.2644	-0.00162	3.15E-06	0.191577	0.364226	1.439399
3.91	0.2644	-0.00162	3.15E-06	0.191548	0.364171	1.43932
3.91	0.2644	-0.00162	3.15E-06	0.191519	0.364116	1.439241
3.91	0.2644	-0.00162	3.15E-06	0.191491	0.364061	1.439163
3.91	0.2644	-0.00162	3.15E-06	0.191462	0.364007	1.439084
3.91	0.2644	-0.00162	3.15E-06	0.191433	0.363952	1.439006
3.91	0.2644	-0.00162	3.15E-06	0.191405	0.363898	1.438928
3.91	0.2644	-0.00162	3.15E-06	0.191376	0.363844	1.438849
3.91	0.2644	-0.00162	3.15E-06	0.191348	0.36379	1.438771
3.91	0.2644	-0.00162	3.15E-06	0.191319	0.363735	1.438694
3.91	0.2644	-0.00162	3.15E-06	0.191291	0.363681	1.438616
3.91	0.2644	-0.00162	3.15E-06	0.191262	0.363627	1.438538

Location Index	
England and Wales	1
Scotland and Ireland	2

From Design and Analysis of Urban Storm Drainage, The Wallingford Procedure, Vol 1

Table 6.1 Values of Constants to calculate Cr

Geographic Location	Range of M5-D	Location Index	J0	J1	J2
England and Wales	0-10	1	0.1699	0.0028	0.000114
	11-30		0.1644	0.005831	-0.00013
	31-75		0.2644	-0.00162	3.15E-06
	76-150		0.2718	-0.00195	6.19E-06
	>150		0.1454	-0.00019	1.14E-07

Integra Consulting							Job No	Date
							3255	Jul-21
							Sheet	By
Calculations							01	JS
Job Title MIOC								
Storm Water Flood Model								
M5-60 = 18.15			r = 0.385		Return, T = 100		Area (m²) = 1780	
					CC Factor = 0.40		Limit (l/s) = 7.05	
Totals						40	65	
D (mins)	M5-D (mm)	MT-D (mm)	Rate (mm/hr)	Flow (l/s)	CC Flow (l/s)	Storage (m³)	CC Storage (m³)	
10.00	9.47	17.98	107.89	53.00	74.20	27.57	40.29	
15.00	11.29	21.88	87.53	43.00	60.20	32.36	47.84	
20.00	12.63	24.75	74.26	36.48	51.08	35.32	52.83	
25.00	13.70	27.05	64.92	31.89	44.65	37.26	56.40	
30.00	14.59	28.97	57.94	28.46	39.85	38.54	59.04	
35.00	15.36	30.62	52.49	25.79	36.10	39.35	61.01	
40.00	16.03	32.07	48.11	23.64	33.09	39.81	62.50	
45.00	16.63	33.37	44.50	21.86	30.60	39.99	63.60	
50.00	17.18	34.55	41.46	20.37	28.51	39.95	64.39	
55.00	17.69	35.62	38.86	19.09	26.73	39.74	64.94	
60.00	18.15	36.61	36.61	17.99	25.18	39.37	65.28	
65.00	18.58	37.53	34.65	17.02	23.83	38.88	65.44	
70.00	18.99	38.39	32.91	16.17	22.63	38.29	65.44	
75.00	19.37	39.19	31.35	15.40	21.57	37.59	65.32	
80.00	19.73	39.95	29.96	14.72	20.61	36.82	65.08	
85.00	20.07	40.66	28.70	14.10	19.74	35.97	64.73	
90.00	20.40	41.34	27.56	13.54	18.96	35.05	64.30	
95.00	20.71	41.99	26.52	13.03	18.24	34.07	63.78	
100.00	21.01	42.60	25.56	12.56	17.58	33.04	63.18	
105.00	21.30	43.19	24.68	12.12	16.97	31.97	62.52	
110.00	21.57	43.75	23.86	11.72	16.41	30.85	61.80	
115.00	21.84	44.29	23.11	11.35	15.89	29.68	61.01	
120.00	22.10	44.80	22.40	11.01	15.41	28.48	60.18	
125.00	22.34	45.30	21.75	10.68	14.96	27.25	59.30	
130.00	22.58	45.78	21.13	10.38	14.53	25.98	58.37	
135.00	22.82	46.24	20.55	10.10	14.14	24.68	57.40	
140.00	23.04	46.69	20.01	9.83	13.76	23.36	56.39	
145.00	23.26	47.12	19.50	9.58	13.41	22.01	55.34	
150.00	23.47	47.54	19.02	9.34	13.08	20.63	54.26	
155.00	23.68	47.95	18.56	9.12	12.77	19.23	53.15	
160.00	23.88	48.34	18.13	8.91	12.47	17.81	52.01	
165.00	24.08	48.72	17.72	8.70	12.19	16.37	50.84	
170.00	24.27	49.09	17.33	8.51	11.92	14.91	49.64	
175.00	24.46	49.45	16.95	8.33	11.66	13.43	48.41	
180.00	24.65	49.80	16.60	8.16	11.42	11.94	47.17	
185.00	24.83	50.14	16.26	7.99	11.18	10.42	45.90	
190.00	25.00	50.47	15.94	7.83	10.96	8.90	44.60	
195.00	25.17	50.80	15.63	7.68	10.75	7.35	43.29	
200.00	25.34	51.11	15.33	7.53	10.55	5.80	41.95	

205.00	25.51	51.42	15.05	7.39	10.35	4.23	40.60
210.00	25.67	51.72	14.78	7.26	10.16	2.64	39.23
215.00	25.83	52.01	14.52	7.13	9.98	1.05	37.84
220.00	25.99	52.30	14.26	7.01	9.81	-0.56	36.44
225.00	26.14	52.58	14.02	6.89	9.64	-2.18	35.02
230.00	26.29	52.85	13.79	6.77	9.48	-3.81	33.58
235.00	26.44	53.12	13.56	6.66	9.33	-5.45	32.13
240.00	26.59	53.38	13.35	6.56	9.18	-7.10	30.66
245.00	26.73	53.64	13.14	6.45	9.04	-8.77	29.18
250.00	26.87	53.89	12.93	6.35	8.90	-10.44	27.69
255.00	27.01	54.14	12.74	6.26	8.76	-12.11	26.19
260.00	27.15	54.38	12.55	6.17	8.63	-13.80	24.67
265.00	27.28	54.62	12.37	6.08	8.51	-15.50	23.14
270.00	27.42	54.85	12.19	5.99	8.38	-17.20	21.60
275.00	27.55	55.08	12.02	5.90	8.27	-18.92	20.05
280.00	27.68	55.30	11.85	5.82	8.15	-20.64	18.49
285.00	27.80	55.52	11.69	5.74	8.04	-22.36	16.91
290.00	27.93	55.74	11.53	5.67	7.93	-24.10	15.33
295.00	28.05	55.95	11.38	5.59	7.83	-25.84	13.74
300.00	28.18	56.15	11.23	5.52	7.72	-27.59	12.14
305.00	28.30	56.36	11.09	5.45	7.63	-29.34	10.53
310.00	28.42	56.56	10.95	5.38	7.53	-31.10	8.91
315.00	28.54	56.76	10.81	5.31	7.44	-32.87	7.28
320.00	28.65	56.95	10.68	5.25	7.34	-34.64	5.65
325.00	28.77	57.14	10.55	5.18	7.26	-36.42	4.00
330.00	28.88	57.33	10.42	5.12	7.17	-38.20	2.35
335.00	28.99	57.51	10.30	5.06	7.08	-39.99	0.69
340.00	29.10	57.69	10.18	5.00	7.00	-41.79	-0.97
345.00	29.21	57.87	10.06	4.94	6.92	-43.59	-2.65
350.00	29.32	58.05	9.95	4.89	6.84	-45.39	-4.33
355.00	29.43	58.22	9.84	4.83	6.77	-47.20	-6.01
360.00	29.54	58.39	9.73	4.78	6.69	-49.01	-7.71
365.00	29.64	58.56	9.63	4.73	6.62	-50.83	-9.41
370.00	29.75	58.72	9.52	4.68	6.55	-52.66	-11.12
375.00	29.85	58.88	9.42	4.63	6.48	-54.49	-12.83
380.00	29.95	59.04	9.32	4.58	6.41	-56.32	-14.55
385.00	30.05	59.20	9.23	4.53	6.35	-58.15	-16.27
390.00	30.15	59.35	9.13	4.49	6.28	-59.99	-18.00
395.00	30.25	59.51	9.04	4.44	6.22	-61.84	-19.74
400.00	30.35	59.66	8.95	4.40	6.15	-63.69	-21.48
405.00	30.45	59.81	8.86	4.35	6.09	-65.54	-23.23
410.00	30.54	59.95	8.77	4.31	6.03	-67.40	-24.98
415.00	30.64	60.10	8.69	4.27	5.98	-69.26	-26.74
420.00	30.73	60.24	8.61	4.23	5.92	-71.12	-28.50
425.00	30.82	60.38	8.52	4.19	5.86	-72.99	-30.27
430.00	30.92	60.52	8.44	4.15	5.81	-74.86	-32.04
435.00	31.01	60.86	8.39	4.12	5.77	-76.37	-33.31
440.00	31.10	61.01	8.32	4.09	5.72	-78.21	-35.04
445.00	31.19	61.17	8.25	4.05	5.67	-80.05	-36.78
450.00	31.28	61.32	8.18	4.02	5.62	-81.90	-38.52

455.00	31.37	61.47	8.11	3.98	5.57	-83.75	-40.27
460.00	31.46	61.62	8.04	3.95	5.53	-85.61	-42.02
465.00	31.54	61.76	7.97	3.92	5.48	-87.46	-43.77
470.00	31.63	61.91	7.90	3.88	5.44	-89.32	-45.52
475.00	31.71	62.05	7.84	3.85	5.39	-91.18	-47.28
480.00	31.80	62.20	7.77	3.82	5.35	-93.04	-49.04
485.00	31.88	62.34	7.71	3.79	5.30	-94.90	-50.80
490.00	31.97	62.48	7.65	3.76	5.26	-96.77	-52.57
495.00	32.05	62.62	7.59	3.73	5.22	-98.64	-54.34
500.00	32.13	62.76	7.53	3.70	5.18	-100.51	-56.12
505.00	32.21	62.89	7.47	3.67	5.14	-102.38	-57.89
510.00	32.30	63.03	7.42	3.64	5.10	-104.26	-59.67
515.00	32.38	63.16	7.36	3.62	5.06	-106.13	-61.45
520.00	32.46	63.30	7.30	3.59	5.02	-108.01	-63.24
525.00	32.54	63.43	7.25	3.56	4.99	-109.89	-65.02
530.00	32.61	63.56	7.20	3.54	4.95	-111.78	-66.81
535.00	32.69	63.69	7.14	3.51	4.91	-113.66	-68.60
540.00	32.77	63.82	7.09	3.48	4.88	-115.55	-70.40
545.00	32.85	63.95	7.04	3.46	4.84	-117.43	-72.19
550.00	32.92	64.08	6.99	3.43	4.81	-119.32	-73.99
555.00	33.00	64.20	6.94	3.41	4.77	-121.22	-75.80
560.00	33.07	64.33	6.89	3.39	4.74	-123.11	-77.60
565.00	33.15	64.45	6.84	3.36	4.71	-125.00	-79.41
570.00	33.22	64.58	6.80	3.34	4.68	-126.90	-81.22
575.00	33.30	64.70	6.75	3.32	4.64	-128.80	-83.03
580.00	33.37	64.82	6.71	3.29	4.61	-130.70	-84.84
585.00	33.44	64.94	6.66	3.27	4.58	-132.60	-86.65
590.00	33.52	65.06	6.62	3.25	4.55	-134.50	-88.47
595.00	33.59	65.18	6.57	3.23	4.52	-136.40	-90.29
600.00	33.66	65.30	6.53	3.21	4.49	-138.31	-92.11
605.00	33.73	65.42	6.49	3.19	4.46	-140.22	-93.94
610.00	33.80	65.53	6.45	3.17	4.43	-142.13	-95.76
615.00	33.87	65.65	6.40	3.15	4.41	-144.04	-97.59
620.00	33.94	65.77	6.36	3.13	4.38	-145.95	-99.42
625.00	34.01	65.88	6.32	3.11	4.35	-147.86	-101.25
630.00	34.08	65.99	6.29	3.09	4.32	-149.77	-103.09
635.00	34.15	66.11	6.25	3.07	4.30	-151.69	-104.92
640.00	34.22	66.22	6.21	3.05	4.27	-153.60	-106.76
645.00	34.29	66.33	6.17	3.03	4.24	-155.52	-108.60
650.00	34.35	66.44	6.13	3.01	4.22	-157.44	-110.44
655.00	34.42	66.55	6.10	2.99	4.19	-159.36	-112.28
660.00	34.49	66.66	6.06	2.98	4.17	-161.28	-114.13
665.00	34.55	66.77	6.02	2.96	4.14	-163.21	-115.97
670.00	34.62	66.88	5.99	2.94	4.12	-165.13	-117.82
675.00	34.68	66.98	5.95	2.93	4.10	-167.06	-119.67
680.00	34.75	67.09	5.92	2.91	4.07	-168.98	-121.52
685.00	34.81	67.20	5.89	2.89	4.05	-170.91	-123.37
690.00	34.88	67.30	5.85	2.88	4.03	-172.84	-125.23
695.00	34.94	67.41	5.82	2.86	4.00	-174.77	-127.08
700.00	35.00	67.51	5.79	2.84	3.98	-176.70	-128.94

705.00	35.07	67.61	5.75	2.83	3.96	-178.63	-130.80
710.00	35.13	67.72	5.72	2.81	3.94	-180.57	-132.66
715.00	35.19	67.82	5.69	2.80	3.91	-182.50	-134.52
720.00	35.26	67.92	5.66	2.78	3.89	-184.44	-136.39
725.00	35.32	68.02	5.63	2.77	3.87	-186.37	-138.25
730.00	35.38	68.12	5.60	2.75	3.85	-188.31	-140.12
735.00	35.44	68.22	5.57	2.74	3.83	-190.25	-141.99
740.00	35.50	68.32	5.54	2.72	3.81	-192.19	-143.85
745.00	35.56	68.42	5.51	2.71	3.79	-194.13	-145.73
750.00	35.62	68.52	5.48	2.69	3.77	-196.07	-147.60
755.00	35.68	68.62	5.45	2.68	3.75	-198.01	-149.47
760.00	35.74	68.71	5.42	2.67	3.73	-199.96	-151.35
765.00	35.80	68.81	5.40	2.65	3.71	-201.90	-153.22
770.00	35.86	68.90	5.37	2.64	3.69	-203.84	-155.10
775.00	35.92	69.00	5.34	2.62	3.67	-205.79	-156.98
780.00	35.98	69.09	5.31	2.61	3.66	-207.74	-158.86
785.00	36.04	69.19	5.29	2.60	3.64	-209.69	-160.74
790.00	36.09	69.28	5.26	2.59	3.62	-211.64	-162.62
795.00	36.15	69.38	5.24	2.57	3.60	-213.58	-164.50
800.00	36.21	69.47	5.21	2.56	3.58	-215.54	-166.39
805.00	36.27	69.56	5.18	2.55	3.57	-217.49	-168.28
810.00	36.32	69.65	5.16	2.53	3.55	-219.44	-170.16
815.00	36.38	69.75	5.13	2.52	3.53	-221.39	-172.05
820.00	36.44	69.84	5.11	2.51	3.51	-223.35	-173.94
825.00	36.49	69.93	5.09	2.50	3.50	-225.30	-175.83
830.00	36.55	70.02	5.06	2.49	3.48	-227.26	-177.72
835.00	36.60	70.11	5.04	2.47	3.46	-229.21	-179.62
840.00	36.66	70.20	5.01	2.46	3.45	-231.17	-181.51
845.00	36.71	70.28	4.99	2.45	3.43	-233.13	-183.41
850.00	36.77	70.37	4.97	2.44	3.42	-235.09	-185.30
855.00	36.82	70.46	4.94	2.43	3.40	-237.05	-187.20
860.00	36.88	70.55	4.92	2.42	3.39	-239.01	-189.10
865.00	36.93	70.64	4.90	2.41	3.37	-240.97	-191.00
870.00	36.99	70.72	4.88	2.40	3.35	-242.93	-192.90
875.00	37.04	70.81	4.86	2.39	3.34	-244.89	-194.80
880.00	37.09	70.89	4.83	2.37	3.32	-246.86	-196.70
885.00	37.15	70.98	4.81	2.36	3.31	-248.82	-198.61
890.00	37.20	71.06	4.79	2.35	3.30	-250.79	-200.51
895.00	37.25	71.15	4.77	2.34	3.28	-252.75	-202.42
900.00	37.30	71.23	4.75	2.33	3.27	-254.72	-204.32
905.00	37.36	71.32	4.73	2.32	3.25	-256.68	-206.23
910.00	37.41	71.40	4.71	2.31	3.24	-258.65	-208.14
915.00	37.46	71.48	4.69	2.30	3.22	-260.62	-210.05
920.00	37.51	71.57	4.67	2.29	3.21	-262.59	-211.96
925.00	37.56	71.65	4.65	2.28	3.20	-264.56	-213.87
930.00	37.61	71.73	4.63	2.27	3.18	-266.53	-215.78
935.00	37.67	71.81	4.61	2.26	3.17	-268.50	-217.70
940.00	37.72	71.89	4.59	2.25	3.16	-270.47	-219.61
945.00	37.77	71.97	4.57	2.25	3.14	-272.44	-221.53
950.00	37.82	72.05	4.55	2.24	3.13	-274.42	-223.44

955.00	37.87	72.13	4.53	2.23	3.12	-276.39	-225.36
960.00	37.92	72.21	4.51	2.22	3.10	-278.36	-227.28
965.00	37.97	72.29	4.49	2.21	3.09	-280.34	-229.20
970.00	38.02	72.37	4.48	2.20	3.08	-282.31	-231.11
975.00	38.07	72.45	4.46	2.19	3.07	-284.29	-233.04
980.00	38.12	72.53	4.44	2.18	3.05	-286.27	-234.96
985.00	38.16	72.61	4.42	2.17	3.04	-288.24	-236.88
990.00	38.21	72.68	4.41	2.16	3.03	-290.22	-238.80
995.00	38.26	72.76	4.39	2.16	3.02	-292.20	-240.72
1000.00	38.31	72.84	4.37	2.15	3.01	-294.18	-242.65
1005.00	38.36	72.91	4.35	2.14	2.99	-296.16	-244.57
1010.00	38.41	72.99	4.34	2.13	2.98	-298.14	-246.50
1015.00	38.45	73.07	4.32	2.12	2.97	-300.12	-248.43
1020.00	38.50	73.14	4.30	2.11	2.96	-302.10	-250.35
1025.00	38.55	73.22	4.29	2.11	2.95	-304.08	-252.28
1030.00	38.60	73.29	4.27	2.10	2.94	-306.06	-254.21
1035.00	38.64	73.37	4.25	2.09	2.93	-308.05	-256.14
1040.00	38.69	73.44	4.24	2.08	2.91	-310.03	-258.07
1045.00	38.74	73.52	4.22	2.07	2.90	-312.01	-260.00
1050.00	38.78	73.59	4.21	2.07	2.89	-314.00	-261.94
1055.00	38.83	73.66	4.19	2.06	2.88	-315.98	-263.87
1060.00	38.88	73.74	4.17	2.05	2.87	-317.97	-265.80
1065.00	38.92	73.81	4.16	2.04	2.86	-319.95	-267.74
1070.00	38.97	73.88	4.14	2.04	2.85	-321.94	-269.67
1075.00	39.02	73.96	4.13	2.03	2.84	-323.93	-271.61
1080.00	39.06	74.03	4.11	2.02	2.83	-325.91	-273.54
1085.00	39.11	74.10	4.10	2.01	2.82	-327.90	-275.48
1090.00	39.15	74.17	4.08	2.01	2.81	-329.89	-277.42
1095.00	39.20	74.24	4.07	2.00	2.80	-331.88	-279.36
1100.00	39.24	74.31	4.05	1.99	2.79	-333.87	-281.30
1105.00	39.29	74.38	4.04	1.98	2.78	-335.86	-283.24
1110.00	39.33	74.46	4.02	1.98	2.77	-337.85	-285.18
1115.00	39.38	74.53	4.01	1.97	2.76	-339.84	-287.12
1120.00	39.42	74.60	4.00	1.96	2.75	-341.83	-289.06
1125.00	39.47	74.66	3.98	1.96	2.74	-343.82	-291.00
1130.00	39.51	74.73	3.97	1.95	2.73	-345.81	-292.94
1135.00	39.55	74.80	3.95	1.94	2.72	-347.81	-294.89
1140.00	39.60	74.87	3.94	1.94	2.71	-349.80	-296.83
1145.00	39.64	74.94	3.93	1.93	2.70	-351.79	-298.78
1150.00	39.68	75.01	3.91	1.92	2.69	-353.79	-300.72
1155.00	39.73	75.08	3.90	1.92	2.68	-355.78	-302.67
1160.00	39.77	75.15	3.89	1.91	2.67	-357.78	-304.62
1165.00	39.81	75.21	3.87	1.90	2.66	-359.77	-306.56
1170.00	39.86	75.28	3.86	1.90	2.66	-361.77	-308.51
1175.00	39.90	75.35	3.85	1.89	2.65	-363.76	-310.46
1180.00	39.94	75.41	3.83	1.88	2.64	-365.76	-312.41
1185.00	39.99	75.48	3.82	1.88	2.63	-367.76	-314.36
1190.00	40.03	75.55	3.81	1.87	2.62	-369.76	-316.31
1195.00	40.07	75.61	3.80	1.87	2.61	-371.75	-318.26
1200.00	40.11	75.68	3.78	1.86	2.60	-373.75	-320.21

1205.00	40.15	75.75	3.77	1.85	2.59	-375.75	-322.16
1210.00	40.20	75.81	3.76	1.85	2.59	-377.75	-324.12
1215.00	40.24	75.88	3.75	1.84	2.58	-379.75	-326.07
1220.00	40.28	75.94	3.73	1.83	2.57	-381.75	-328.02
1225.00	40.32	76.01	3.72	1.83	2.56	-383.75	-329.98
1230.00	40.36	76.07	3.71	1.82	2.55	-385.75	-331.93
1235.00	40.40	76.14	3.70	1.82	2.54	-387.75	-333.89
1240.00	40.44	76.20	3.69	1.81	2.54	-389.75	-335.84
1245.00	40.49	76.26	3.68	1.81	2.53	-391.75	-337.80
1250.00	40.53	76.33	3.66	1.80	2.52	-393.76	-339.76
1255.00	40.57	76.39	3.65	1.79	2.51	-395.76	-341.72
1260.00	40.61	76.45	3.64	1.79	2.50	-397.76	-343.67
1265.00	40.65	76.52	3.63	1.78	2.50	-399.76	-345.63
1270.00	40.69	76.58	3.62	1.78	2.49	-401.77	-347.59
1275.00	40.73	76.64	3.61	1.77	2.48	-403.77	-349.55
1280.00	40.77	76.71	3.60	1.77	2.47	-405.78	-351.51
1285.00	40.81	76.77	3.58	1.76	2.47	-407.78	-353.47
1290.00	40.85	76.83	3.57	1.76	2.46	-409.79	-355.43
1295.00	40.89	76.89	3.56	1.75	2.45	-411.79	-357.40
1300.00	40.93	76.95	3.55	1.74	2.44	-413.80	-359.36
1305.00	40.97	77.02	3.54	1.74	2.44	-415.80	-361.32
1310.00	41.01	77.08	3.53	1.73	2.43	-417.81	-363.28
1315.00	41.05	77.14	3.52	1.73	2.42	-419.82	-365.25
1320.00	41.09	77.20	3.51	1.72	2.41	-421.83	-367.21
1325.00	41.13	77.26	3.50	1.72	2.41	-423.83	-369.18
1330.00	41.16	77.32	3.49	1.71	2.40	-425.84	-371.14
1335.00	41.20	77.38	3.48	1.71	2.39	-427.85	-373.11
1340.00	41.24	77.44	3.47	1.70	2.38	-429.86	-375.07
1345.00	41.28	77.50	3.46	1.70	2.38	-431.87	-377.04
1350.00	41.32	77.56	3.45	1.69	2.37	-433.88	-379.01
1355.00	41.36	77.62	3.44	1.69	2.36	-435.89	-380.97
1360.00	41.40	77.68	3.43	1.68	2.36	-437.90	-382.94
1365.00	41.43	77.74	3.42	1.68	2.35	-439.91	-384.91
1370.00	41.47	77.80	3.41	1.67	2.34	-441.92	-386.88
1375.00	41.51	77.86	3.40	1.67	2.34	-443.93	-388.85
1380.00	41.55	77.91	3.39	1.66	2.33	-445.94	-390.82
1385.00	41.59	77.97	3.38	1.66	2.32	-447.95	-392.79
1390.00	41.62	78.03	3.37	1.65	2.32	-449.96	-394.76
1395.00	41.66	78.09	3.36	1.65	2.31	-451.98	-396.73
1400.00	41.70	78.15	3.35	1.65	2.30	-453.99	-398.70
1405.00	41.74	78.21	3.34	1.64	2.30	-456.00	-400.67
1410.00	41.77	78.26	3.33	1.64	2.29	-458.01	-402.65
1415.00	41.81	78.32	3.32	1.63	2.28	-460.03	-404.62
1420.00	41.85	78.38	3.31	1.63	2.28	-462.04	-406.59
1425.00	41.88	78.43	3.30	1.62	2.27	-464.05	-408.57
1430.00	41.92	78.49	3.29	1.62	2.27	-466.07	-410.54
1435.00	41.96	78.55	3.28	1.61	2.26	-468.08	-412.52
1440.00	42.00	78.60	3.28	1.61	2.25	-470.10	-414.49
1445.00	42.03	78.66	3.27	1.60	2.25	-472.11	-416.47
1450.00	42.07	78.72	3.26	1.60	2.24	-474.13	-418.44

1455.00	42.10	78.77	3.25	1.60	2.23	-476.15	-420.42
1460.00	42.14	78.83	3.24	1.59	2.23	-478.16	-422.39
1465.00	42.18	78.89	3.23	1.59	2.22	-480.18	-424.37
1470.00	42.21	78.94	3.22	1.58	2.22	-482.19	-426.35
1475.00	42.25	79.00	3.21	1.58	2.21	-484.21	-428.33
1480.00	42.29	79.05	3.20	1.57	2.20	-486.23	-430.30
1485.00	42.32	79.11	3.20	1.57	2.20	-488.25	-432.28
1490.00	42.36	79.16	3.19	1.57	2.19	-490.26	-434.26
1495.00	42.39	79.22	3.18	1.56	2.19	-492.28	-436.24
1500.00	42.43	79.27	3.17	1.56	2.18	-494.30	-438.22
1505.00	42.46	79.33	3.16	1.55	2.18	-496.32	-440.20
1510.00	42.50	79.38	3.15	1.55	2.17	-498.34	-442.18
1515.00	42.53	79.43	3.15	1.55	2.16	-500.36	-444.16
1520.00	42.57	79.49	3.14	1.54	2.16	-502.38	-446.14
1525.00	42.61	79.54	3.13	1.54	2.15	-504.40	-448.12
1530.00	42.64	79.60	3.12	1.53	2.15	-506.42	-450.11
1535.00	42.68	79.65	3.11	1.53	2.14	-508.44	-452.09
1540.00	42.71	79.70	3.11	1.53	2.14	-510.46	-454.07
1545.00	42.74	79.76	3.10	1.52	2.13	-512.48	-456.05
1550.00	42.78	79.81	3.09	1.52	2.12	-514.50	-458.04
1555.00	42.81	79.86	3.08	1.51	2.12	-516.52	-460.02
1560.00	42.85	79.92	3.07	1.51	2.11	-518.54	-462.01
1565.00	42.88	79.97	3.07	1.51	2.11	-520.56	-463.99
1570.00	42.92	80.02	3.06	1.50	2.10	-522.59	-465.98
1575.00	42.95	80.07	3.05	1.50	2.10	-524.61	-467.96
1580.00	42.99	80.13	3.04	1.49	2.09	-526.63	-469.95
1585.00	43.02	80.18	3.04	1.49	2.09	-528.65	-471.93
1590.00	43.05	80.23	3.03	1.49	2.08	-530.68	-473.92
1595.00	43.09	80.28	3.02	1.48	2.08	-532.70	-475.90
1600.00	43.12	80.33	3.01	1.48	2.07	-534.72	-477.89
1605.00	43.16	80.38	3.01	1.48	2.07	-536.75	-479.88
1610.00	43.19	80.44	3.00	1.47	2.06	-538.77	-481.87
1615.00	43.22	80.49	2.99	1.47	2.06	-540.79	-483.85
1620.00	43.26	80.54	2.98	1.47	2.05	-542.82	-485.84
1625.00	43.29	80.59	2.98	1.46	2.05	-544.84	-487.83
1630.00	43.32	80.64	2.97	1.46	2.04	-546.87	-489.82
1635.00	43.36	80.69	2.96	1.45	2.04	-548.89	-491.81
1640.00	43.39	80.74	2.95	1.45	2.03	-550.92	-493.80
1645.00	43.42	80.79	2.95	1.45	2.03	-552.94	-495.79
1650.00	43.46	80.84	2.94	1.44	2.02	-554.97	-497.78
1655.00	43.49	80.89	2.93	1.44	2.02	-557.00	-499.77
1660.00	43.52	80.94	2.93	1.44	2.01	-559.02	-501.76
1665.00	43.56	80.99	2.92	1.43	2.01	-561.05	-503.75
1670.00	43.59	81.04	2.91	1.43	2.00	-563.08	-505.74
1675.00	43.62	81.09	2.90	1.43	2.00	-565.10	-507.73
1680.00	43.65	81.14	2.90	1.42	1.99	-567.13	-509.73
1685.00	43.69	81.19	2.89	1.42	1.99	-569.16	-511.72
1690.00	43.72	81.24	2.88	1.42	1.98	-571.19	-513.71
1695.00	43.75	81.29	2.88	1.41	1.98	-573.21	-515.70
1700.00	43.78	81.34	2.87	1.41	1.97	-575.24	-517.70

1705.00	43.82	81.39	2.86	1.41	1.97	-577.27	-519.69
1710.00	43.85	81.44	2.86	1.40	1.97	-579.30	-521.68
1715.00	43.88	81.49	2.85	1.40	1.96	-581.33	-523.68
1720.00	43.91	81.54	2.84	1.40	1.96	-583.36	-525.67
1725.00	43.94	81.58	2.84	1.39	1.95	-585.38	-527.67
1730.00	43.98	81.63	2.83	1.39	1.95	-587.41	-529.66
1735.00	44.01	81.68	2.82	1.39	1.94	-589.44	-531.66
1740.00	44.04	81.73	2.82	1.38	1.94	-591.47	-533.65
1745.00	44.07	81.78	2.81	1.38	1.93	-593.50	-535.65
1750.00	44.10	81.83	2.81	1.38	1.93	-595.53	-537.65
1755.00	44.14	81.87	2.80	1.38	1.93	-597.56	-539.64
1760.00	44.17	81.92	2.79	1.37	1.92	-599.59	-541.64
1765.00	44.20	81.97	2.79	1.37	1.92	-601.63	-543.64
1770.00	44.23	82.02	2.78	1.37	1.91	-603.66	-545.63
1775.00	44.26	82.06	2.77	1.36	1.91	-605.69	-547.63
1780.00	44.29	82.11	2.77	1.36	1.90	-607.72	-549.63
1785.00	44.32	82.16	2.76	1.36	1.90	-609.75	-551.63
1790.00	44.35	82.20	2.76	1.35	1.90	-611.78	-553.63
1795.00	44.39	82.25	2.75	1.35	1.89	-613.81	-555.63
1800.00	44.42	82.30	2.74	1.35	1.89	-615.85	-557.62
1805.00	44.45	82.35	2.74	1.34	1.88	-617.88	-559.62
1810.00	44.48	82.39	2.73	1.34	1.88	-619.91	-561.62
1815.00	44.51	82.44	2.73	1.34	1.87	-621.94	-563.62
1820.00	44.54	82.48	2.72	1.34	1.87	-623.98	-565.62
1825.00	44.57	82.53	2.71	1.33	1.87	-626.01	-567.62
1830.00	44.60	82.58	2.71	1.33	1.86	-628.04	-569.62
1835.00	44.63	82.62	2.70	1.33	1.86	-630.08	-571.63
1840.00	44.66	82.67	2.70	1.32	1.85	-632.11	-573.63
1845.00	44.69	82.72	2.69	1.32	1.85	-634.14	-575.63
1850.00	44.72	82.76	2.68	1.32	1.85	-636.18	-577.63
1855.00	44.75	82.81	2.68	1.32	1.84	-638.21	-579.63
1860.00	44.78	82.85	2.67	1.31	1.84	-640.25	-581.63
1865.00	44.81	82.90	2.67	1.31	1.83	-642.28	-583.64
1870.00	44.84	82.94	2.66	1.31	1.83	-644.32	-585.64
1875.00	44.87	82.99	2.66	1.30	1.83	-646.35	-587.64
1880.00	44.90	83.03	2.65	1.30	1.82	-648.39	-589.65
1885.00	44.93	83.08	2.64	1.30	1.82	-650.42	-591.65
1890.00	44.96	83.12	2.64	1.30	1.81	-652.46	-593.65
1895.00	44.99	83.17	2.63	1.29	1.81	-654.49	-595.66
1900.00	45.02	83.21	2.63	1.29	1.81	-656.53	-597.66
1905.00	45.05	83.26	2.62	1.29	1.80	-658.57	-599.67
1910.00	45.08	83.30	2.62	1.29	1.80	-660.60	-601.67
1915.00	45.11	83.35	2.61	1.28	1.80	-662.64	-603.68
1920.00	45.14	83.39	2.61	1.28	1.79	-664.67	-605.68
1925.00	45.17	83.43	2.60	1.28	1.79	-666.71	-607.69
1930.00	45.20	83.48	2.60	1.27	1.78	-668.75	-609.69
1935.00	45.23	83.52	2.59	1.27	1.78	-670.79	-611.70
1940.00	45.26	83.57	2.58	1.27	1.78	-672.82	-613.70
1945.00	45.29	83.61	2.58	1.27	1.77	-674.86	-615.71
1950.00	45.32	83.65	2.57	1.26	1.77	-676.90	-617.72

1955.00	45.35	83.70	2.57	1.26	1.77	-678.94	-619.72
1960.00	45.38	83.74	2.56	1.26	1.76	-680.97	-621.73
1965.00	45.41	83.79	2.56	1.26	1.76	-683.01	-623.74
1970.00	45.43	83.83	2.55	1.25	1.76	-685.05	-625.75
1975.00	45.46	83.87	2.55	1.25	1.75	-687.09	-627.75
1980.00	45.49	83.92	2.54	1.25	1.75	-689.13	-629.76
1985.00	45.52	83.96	2.54	1.25	1.75	-691.17	-631.77
1990.00	45.55	84.00	2.53	1.24	1.74	-693.20	-633.78
1995.00	45.58	84.04	2.53	1.24	1.74	-695.24	-635.79
2000.00	45.61	84.09	2.52	1.24	1.74	-697.28	-637.80
2005.00	45.64	84.13	2.52	1.24	1.73	-699.32	-639.81
2010.00	45.66	84.17	2.51	1.23	1.73	-701.36	-641.82
2015.00	45.69	84.21	2.51	1.23	1.72	-703.40	-643.82
2020.00	45.72	84.26	2.50	1.23	1.72	-705.44	-645.83
2025.00	45.75	84.30	2.50	1.23	1.72	-707.48	-647.84
2030.00	45.78	84.34	2.49	1.22	1.71	-709.52	-649.85
2035.00	45.81	84.38	2.49	1.22	1.71	-711.56	-651.87
2040.00	45.83	84.43	2.48	1.22	1.71	-713.60	-653.88
2045.00	45.86	84.47	2.48	1.22	1.70	-715.64	-655.89
2050.00	45.89	84.51	2.47	1.22	1.70	-717.68	-657.90
2055.00	45.92	84.55	2.47	1.21	1.70	-719.73	-659.91
2060.00	45.95	84.59	2.46	1.21	1.69	-721.77	-661.92
2065.00	45.97	84.64	2.46	1.21	1.69	-723.81	-663.93
2070.00	46.00	84.68	2.45	1.21	1.69	-725.85	-665.95
2075.00	46.03	84.72	2.45	1.20	1.68	-727.89	-667.96
2080.00	46.06	84.76	2.45	1.20	1.68	-729.93	-669.97
2085.00	46.09	84.80	2.44	1.20	1.68	-731.97	-671.98
2090.00	46.11	84.84	2.44	1.20	1.68	-734.02	-674.00
2095.00	46.14	84.88	2.43	1.19	1.67	-736.06	-676.01
2100.00	46.17	84.92	2.43	1.19	1.67	-738.10	-678.02
2105.00	46.20	84.97	2.42	1.19	1.67	-740.14	-680.04
2110.00	46.22	85.01	2.42	1.19	1.66	-742.19	-682.05
2115.00	46.25	85.05	2.41	1.19	1.66	-744.23	-684.06
2120.00	46.28	85.09	2.41	1.18	1.66	-746.27	-686.08
2125.00	46.31	85.13	2.40	1.18	1.65	-748.32	-688.09
2130.00	46.33	85.17	2.40	1.18	1.65	-750.36	-690.11
2135.00	46.36	85.21	2.39	1.18	1.65	-752.40	-692.12
2140.00	46.39	85.25	2.39	1.17	1.64	-754.45	-694.14
2145.00	46.41	85.29	2.39	1.17	1.64	-756.49	-696.15
2150.00	46.44	85.33	2.38	1.17	1.64	-758.53	-698.17
2155.00	46.47	85.37	2.38	1.17	1.63	-760.58	-700.18
2160.00	46.50	85.41	2.37	1.17	1.63	-762.62	-702.20
2165.00	46.52	85.45	2.37	1.16	1.63	-764.66	-704.21
2170.00	46.55	85.49	2.36	1.16	1.63	-766.71	-706.23
2175.00	46.58	85.53	2.36	1.16	1.62	-768.75	-708.24
2180.00	46.60	85.57	2.36	1.16	1.62	-770.80	-710.26
2185.00	46.63	85.61	2.35	1.15	1.62	-772.84	-712.28
2190.00	46.66	85.65	2.35	1.15	1.61	-774.89	-714.29
2195.00	46.68	85.69	2.34	1.15	1.61	-776.93	-716.31
2200.00	46.71	85.73	2.34	1.15	1.61	-778.98	-718.33

2205.00	46.74	85.77	2.33	1.15	1.61	-781.02	-720.35
2210.00	46.76	85.81	2.33	1.14	1.60	-783.07	-722.36
2215.00	46.79	85.85	2.33	1.14	1.60	-785.11	-724.38
2220.00	46.82	85.89	2.32	1.14	1.60	-787.16	-726.40
2225.00	46.84	85.93	2.32	1.14	1.59	-789.21	-728.42
2230.00	46.87	85.96	2.31	1.14	1.59	-791.25	-730.44
2235.00	46.90	86.00	2.31	1.13	1.59	-793.30	-732.45
2240.00	46.92	86.04	2.30	1.13	1.59	-795.34	-734.47
2245.00	46.95	86.08	2.30	1.13	1.58	-797.39	-736.49
2250.00	46.97	86.12	2.30	1.13	1.58	-799.44	-738.51
2255.00	47.00	86.16	2.29	1.13	1.58	-801.48	-740.53
2260.00	47.03	86.20	2.29	1.12	1.57	-803.53	-742.55
2265.00	47.05	86.24	2.28	1.12	1.57	-805.58	-744.57
2270.00	47.08	86.27	2.28	1.12	1.57	-807.62	-746.59
2275.00	47.10	86.31	2.28	1.12	1.57	-809.67	-748.61
2280.00	47.13	86.35	2.27	1.12	1.56	-811.72	-750.63
2285.00	47.16	86.39	2.27	1.11	1.56	-813.77	-752.65
2290.00	47.18	86.43	2.26	1.11	1.56	-815.81	-754.67
2295.00	47.21	86.47	2.26	1.11	1.55	-817.86	-756.69
2300.00	47.23	86.50	2.26	1.11	1.55	-819.91	-758.71
2305.00	47.26	86.54	2.25	1.11	1.55	-821.96	-760.73
2310.00	47.29	86.58	2.25	1.10	1.55	-824.00	-762.75
2315.00	47.31	86.62	2.24	1.10	1.54	-826.05	-764.78
2320.00	47.34	86.66	2.24	1.10	1.54	-828.10	-766.80
2325.00	47.36	86.69	2.24	1.10	1.54	-830.15	-768.82
2330.00	47.39	86.73	2.23	1.10	1.54	-832.20	-770.84
2335.00	47.41	86.77	2.23	1.10	1.53	-834.25	-772.86
2340.00	47.44	86.81	2.23	1.09	1.53	-836.30	-774.89
2345.00	47.46	86.84	2.22	1.09	1.53	-838.34	-776.91
2350.00	47.49	86.88	2.22	1.09	1.53	-840.39	-778.93
2355.00	47.51	86.92	2.21	1.09	1.52	-842.44	-780.95
2360.00	47.54	86.95	2.21	1.09	1.52	-844.49	-782.98
2365.00	47.56	86.99	2.21	1.08	1.52	-846.54	-785.00
2370.00	47.59	87.03	2.20	1.08	1.52	-848.59	-787.02
2375.00	47.62	87.07	2.20	1.08	1.51	-850.64	-789.05
2380.00	47.64	87.10	2.20	1.08	1.51	-852.69	-791.07
2385.00	47.67	87.14	2.19	1.08	1.51	-854.74	-793.09
2390.00	47.69	87.18	2.19	1.08	1.51	-856.79	-795.12
2395.00	47.72	87.21	2.18	1.07	1.50	-858.84	-797.14
2400.00	47.74	87.25	2.18	1.07	1.50	-860.89	-799.16
2405.00	47.77	87.29	2.18	1.07	1.50	-862.94	-801.19
2410.00	47.79	87.32	2.17	1.07	1.50	-864.99	-803.21
2415.00	47.81	87.36	2.17	1.07	1.49	-867.04	-805.24
2420.00	47.84	87.40	2.17	1.06	1.49	-869.09	-807.26
2425.00	47.86	87.43	2.16	1.06	1.49	-871.14	-809.29
2430.00	47.89	87.47	2.16	1.06	1.49	-873.19	-811.31
2435.00	47.91	87.50	2.16	1.06	1.48	-875.24	-813.34
2440.00	47.94	87.54	2.15	1.06	1.48	-877.29	-815.36
2445.00	47.96	87.58	2.15	1.06	1.48	-879.35	-817.39
2450.00	47.99	87.61	2.15	1.05	1.48	-881.40	-819.42

2455.00	48.01	87.65	2.14	1.05	1.47	-883.45	-821.44
2460.00	48.04	87.69	2.14	1.05	1.47	-885.50	-823.47
2465.00	48.06	87.72	2.14	1.05	1.47	-887.55	-825.49
2470.00	48.09	87.76	2.13	1.05	1.47	-889.60	-827.52
2475.00	48.11	87.79	2.13	1.05	1.46	-891.65	-829.55
2480.00	48.13	87.83	2.12	1.04	1.46	-893.71	-831.57
2485.00	48.16	87.86	2.12	1.04	1.46	-895.76	-833.60
2490.00	48.18	87.90	2.12	1.04	1.46	-897.81	-835.63
2495.00	48.21	87.93	2.11	1.04	1.45	-899.86	-837.65
2500.00	48.23	87.97	2.11	1.04	1.45	-901.92	-839.68
2505.00	48.26	88.01	2.11	1.04	1.45	-903.97	-841.71
2510.00	48.28	88.04	2.10	1.03	1.45	-906.02	-843.74
2515.00	48.30	88.08	2.10	1.03	1.45	-908.07	-845.76
2520.00	48.33	88.11	2.10	1.03	1.44	-910.13	-847.79
2525.00	48.35	88.15	2.09	1.03	1.44	-912.18	-849.82
2530.00	48.38	88.18	2.09	1.03	1.44	-914.23	-851.85
2535.00	48.40	88.22	2.09	1.03	1.44	-916.28	-853.88
2540.00	48.42	88.25	2.08	1.02	1.43	-918.34	-855.91
2545.00	48.45	88.29	2.08	1.02	1.43	-920.39	-857.93
2550.00	48.47	88.32	2.08	1.02	1.43	-922.44	-859.96
2555.00	48.49	88.36	2.07	1.02	1.43	-924.50	-861.99
2560.00	48.52	88.39	2.07	1.02	1.42	-926.55	-864.02
2565.00	48.54	88.43	2.07	1.02	1.42	-928.61	-866.05
2570.00	48.57	88.46	2.07	1.01	1.42	-930.66	-868.08
2575.00	48.59	88.49	2.06	1.01	1.42	-932.71	-870.11
2580.00	48.61	88.53	2.06	1.01	1.42	-934.77	-872.14
2585.00	48.64	88.56	2.06	1.01	1.41	-936.82	-874.17
2590.00	48.66	88.60	2.05	1.01	1.41	-938.88	-876.20
2595.00	48.68	88.63	2.05	1.01	1.41	-940.93	-878.23
2600.00	48.71	88.67	2.05	1.01	1.41	-942.98	-880.26
2605.00	48.73	88.70	2.04	1.00	1.41	-945.04	-882.29
2610.00	48.75	88.73	2.04	1.00	1.40	-947.09	-884.32
2615.00	48.78	88.77	2.04	1.00	1.40	-949.15	-886.35
2620.00	48.80	88.80	2.03	1.00	1.40	-951.20	-888.38
2625.00	48.82	88.84	2.03	1.00	1.40	-953.26	-890.41
2630.00	48.85	88.87	2.03	1.00	1.39	-955.31	-892.44
2635.00	48.87	88.90	2.02	0.99	1.39	-957.37	-894.47
2640.00	48.89	88.94	2.02	0.99	1.39	-959.42	-896.50
2645.00	48.92	88.97	2.02	0.99	1.39	-961.48	-898.54
2650.00	48.94	89.01	2.02	0.99	1.39	-963.53	-900.57
2655.00	48.96	89.04	2.01	0.99	1.38	-965.59	-902.60
2660.00	48.99	89.07	2.01	0.99	1.38	-967.65	-904.63
2665.00	49.01	89.11	2.01	0.99	1.38	-969.70	-906.66
2670.00	49.03	89.14	2.00	0.98	1.38	-971.76	-908.70
2675.00	49.06	89.17	2.00	0.98	1.38	-973.81	-910.73
2680.00	49.08	89.21	2.00	0.98	1.37	-975.87	-912.76
2685.00	49.10	89.24	1.99	0.98	1.37	-977.92	-914.79
2690.00	49.12	89.27	1.99	0.98	1.37	-979.98	-916.82
2695.00	49.15	89.31	1.99	0.98	1.37	-982.04	-918.86
2700.00	49.17	89.34	1.99	0.98	1.37	-984.09	-920.89

2705.00	49.19	89.37	1.98	0.97	1.36	-986.15	-922.92
2710.00	49.22	89.41	1.98	0.97	1.36	-988.21	-924.96
2715.00	49.24	89.44	1.98	0.97	1.36	-990.26	-926.99
2720.00	49.26	89.47	1.97	0.97	1.36	-992.32	-929.02
2725.00	49.28	89.50	1.97	0.97	1.36	-994.38	-931.06
2730.00	49.31	89.54	1.97	0.97	1.35	-996.43	-933.09
2735.00	49.33	89.57	1.96	0.97	1.35	-998.49	-935.12
2740.00	49.35	89.60	1.96	0.96	1.35	-1000.55	-937.16
2745.00	49.37	89.64	1.96	0.96	1.35	-1002.60	-939.19
2750.00	49.40	89.67	1.96	0.96	1.35	-1004.66	-941.23
2755.00	49.42	89.70	1.95	0.96	1.34	-1006.72	-943.26
2760.00	49.44	89.73	1.95	0.96	1.34	-1008.78	-945.29
2765.00	49.46	89.77	1.95	0.96	1.34	-1010.83	-947.33
2770.00	49.49	89.80	1.95	0.96	1.34	-1012.89	-949.36
2775.00	49.51	89.83	1.94	0.95	1.34	-1014.95	-951.40
2780.00	49.53	89.86	1.94	0.95	1.33	-1017.01	-953.43
2785.00	49.55	89.90	1.94	0.95	1.33	-1019.06	-955.47
2790.00	49.58	89.93	1.93	0.95	1.33	-1021.12	-957.50
2795.00	49.60	89.96	1.93	0.95	1.33	-1023.18	-959.54
2800.00	49.62	89.99	1.93	0.95	1.33	-1025.24	-961.57
2805.00	49.64	90.02	1.93	0.95	1.32	-1027.30	-963.61
2810.00	49.66	90.06	1.92	0.94	1.32	-1029.36	-965.65
2815.00	49.69	90.09	1.92	0.94	1.32	-1031.41	-967.68
2820.00	49.71	90.12	1.92	0.94	1.32	-1033.47	-969.72
2825.00	49.73	90.15	1.91	0.94	1.32	-1035.53	-971.75
2830.00	49.75	90.18	1.91	0.94	1.32	-1037.59	-973.79
2835.00	49.77	90.22	1.91	0.94	1.31	-1039.65	-975.83
2840.00	49.80	90.25	1.91	0.94	1.31	-1041.71	-977.86
2845.00	49.82	90.28	1.90	0.94	1.31	-1043.77	-979.90
2850.00	49.84	90.31	1.90	0.93	1.31	-1045.82	-981.93
2855.00	49.86	90.34	1.90	0.93	1.31	-1047.88	-983.97
2860.00	49.88	90.37	1.90	0.93	1.30	-1049.94	-986.01
2865.00	49.91	90.41	1.89	0.93	1.30	-1052.00	-988.05
2870.00	49.93	90.44	1.89	0.93	1.30	-1054.06	-990.08
2875.00	49.95	90.47	1.89	0.93	1.30	-1056.12	-992.12
2880.00	49.97	90.50	1.89	0.93	1.30	-1058.18	-994.16

Notes to User

Only values shown blue to be edited

Sheet only for england and wales

In M5-D	J0	J1	J2	Cr	In (MT-D/M5-D)	MT-D/M5-D
2.25	0.1699	0.0028	0.000114	0.206621	0.641593	1.899505
2.42	0.1644	0.005831	-0.00013	0.213115	0.661759	1.938199
2.54	0.1644	0.005831	-0.00013	0.216629	0.67267	1.959463
2.62	0.1644	0.005831	-0.00013	0.219078	0.680274	1.974418
2.68	0.1644	0.005831	-0.00013	0.220885	0.685887	1.985532
2.73	0.1644	0.005831	-0.00013	0.222271	0.69019	1.994094
2.77	0.1644	0.005831	-0.00013	0.223361	0.693574	2.000854
2.81	0.1644	0.005831	-0.00013	0.224233	0.696283	2.006282
2.84	0.1644	0.005831	-0.00013	0.22494	0.698478	2.010691
2.87	0.1644	0.005831	-0.00013	0.225518	0.700271	2.014298
2.90	0.1644	0.005831	-0.00013	0.225991	0.701741	2.017262
2.92	0.1644	0.005831	-0.00013	0.22638	0.702948	2.019699
2.94	0.1644	0.005831	-0.00013	0.226698	0.703937	2.021697
2.96	0.1644	0.005831	-0.00013	0.226958	0.704743	2.023327
2.98	0.1644	0.005831	-0.00013	0.227167	0.705393	2.024642
3.00	0.1644	0.005831	-0.00013	0.227333	0.705909	2.025688
3.02	0.1644	0.005831	-0.00013	0.227462	0.70631	2.026499
3.03	0.1644	0.005831	-0.00013	0.227559	0.706609	2.027106
3.05	0.1644	0.005831	-0.00013	0.227627	0.70682	2.027534
3.06	0.1644	0.005831	-0.00013	0.227669	0.706953	2.027802
3.07	0.1644	0.005831	-0.00013	0.22769	0.707015	2.02793
3.08	0.1644	0.005831	-0.00013	0.22769	0.707016	2.027931
3.10	0.1644	0.005831	-0.00013	0.227672	0.706961	2.027819
3.11	0.1644	0.005831	-0.00013	0.227638	0.706855	2.027605
3.12	0.1644	0.005831	-0.00013	0.22759	0.706705	2.027299
3.13	0.1644	0.005831	-0.00013	0.227528	0.706513	2.02691
3.14	0.1644	0.005831	-0.00013	0.227454	0.706283	2.026445
3.15	0.1644	0.005831	-0.00013	0.227369	0.70602	2.025911
3.16	0.1644	0.005831	-0.00013	0.227274	0.705725	2.025314
3.16	0.1644	0.005831	-0.00013	0.22717	0.705401	2.024659
3.17	0.1644	0.005831	-0.00013	0.227057	0.705051	2.023951
3.18	0.1644	0.005831	-0.00013	0.226937	0.704677	2.023194
3.19	0.1644	0.005831	-0.00013	0.226809	0.704281	2.022392
3.20	0.1644	0.005831	-0.00013	0.226675	0.703864	2.021548
3.20	0.1644	0.005831	-0.00013	0.226534	0.703427	2.020666
3.21	0.1644	0.005831	-0.00013	0.226388	0.702973	2.019749
3.22	0.1644	0.005831	-0.00013	0.226236	0.702503	2.018799
3.23	0.1644	0.005831	-0.00013	0.22608	0.702017	2.017818
3.23	0.1644	0.005831	-0.00013	0.225919	0.701516	2.016808

3.24	0.1644	0.005831	-0.00013	0.225753	0.701003	2.015773
3.25	0.1644	0.005831	-0.00013	0.225584	0.700477	2.014713
3.25	0.1644	0.005831	-0.00013	0.225411	0.699939	2.01363
3.26	0.1644	0.005831	-0.00013	0.225234	0.69939	2.012525
3.26	0.1644	0.005831	-0.00013	0.225054	0.698832	2.011401
3.27	0.1644	0.005831	-0.00013	0.224871	0.698263	2.010258
3.27	0.1644	0.005831	-0.00013	0.224685	0.697686	2.009098
3.28	0.1644	0.005831	-0.00013	0.224497	0.6971	2.007922
3.29	0.1644	0.005831	-0.00013	0.224305	0.696507	2.00673
3.29	0.1644	0.005831	-0.00013	0.224112	0.695906	2.005525
3.30	0.1644	0.005831	-0.00013	0.223916	0.695298	2.004306
3.30	0.1644	0.005831	-0.00013	0.223718	0.694683	2.003075
3.31	0.1644	0.005831	-0.00013	0.223518	0.694063	2.001832
3.31	0.1644	0.005831	-0.00013	0.223317	0.693436	2.000578
3.32	0.1644	0.005831	-0.00013	0.223113	0.692804	1.999314
3.32	0.1644	0.005831	-0.00013	0.222908	0.692167	1.998041
3.33	0.1644	0.005831	-0.00013	0.222701	0.691525	1.996759
3.33	0.1644	0.005831	-0.00013	0.222493	0.690879	1.995468
3.33	0.1644	0.005831	-0.00013	0.222283	0.690228	1.99417
3.34	0.1644	0.005831	-0.00013	0.222073	0.689573	1.992865
3.34	0.1644	0.005831	-0.00013	0.22186	0.688914	1.991552
3.35	0.1644	0.005831	-0.00013	0.221647	0.688252	1.990233
3.35	0.1644	0.005831	-0.00013	0.221433	0.687586	1.988909
3.36	0.1644	0.005831	-0.00013	0.221217	0.686917	1.987579
3.36	0.1644	0.005831	-0.00013	0.221001	0.686245	1.986243
3.36	0.1644	0.005831	-0.00013	0.220783	0.68557	1.984903
3.37	0.1644	0.005831	-0.00013	0.220565	0.684892	1.983558
3.37	0.1644	0.005831	-0.00013	0.220346	0.684212	1.98221
3.37	0.1644	0.005831	-0.00013	0.220126	0.68353	1.980857
3.38	0.1644	0.005831	-0.00013	0.219906	0.682845	1.979501
3.38	0.1644	0.005831	-0.00013	0.219684	0.682158	1.978141
3.39	0.1644	0.005831	-0.00013	0.219463	0.681469	1.976779
3.39	0.1644	0.005831	-0.00013	0.21924	0.680778	1.975413
3.39	0.1644	0.005831	-0.00013	0.219017	0.680085	1.974045
3.40	0.1644	0.005831	-0.00013	0.218793	0.679391	1.972675
3.40	0.1644	0.005831	-0.00013	0.218569	0.678695	1.971303
3.40	0.1644	0.005831	-0.00013	0.218345	0.677997	1.969928
3.41	0.1644	0.005831	-0.00013	0.21812	0.677298	1.968552
3.41	0.1644	0.005831	-0.00013	0.217894	0.676598	1.967174
3.41	0.1644	0.005831	-0.00013	0.217668	0.675897	1.965795
3.42	0.1644	0.005831	-0.00013	0.217442	0.675194	1.964414
3.42	0.1644	0.005831	-0.00013	0.217215	0.674491	1.963033
3.42	0.1644	0.005831	-0.00013	0.216988	0.673786	1.96165
3.43	0.1644	0.005831	-0.00013	0.216761	0.67308	1.960266
3.43	0.1644	0.005831	-0.00013	0.216534	0.672374	1.958882
3.43	0.1644	0.005831	-0.00013	0.216306	0.671667	1.957497
3.43	0.2644	-0.00162	3.15E-06	0.217164	0.674332	1.962722
3.44	0.2644	-0.00162	3.15E-06	0.217035	0.67393	1.961932
3.44	0.2644	-0.00162	3.15E-06	0.216906	0.673531	1.96115
3.44	0.2644	-0.00162	3.15E-06	0.216779	0.673136	1.960375

3.45	0.2644	-0.00162	3.15E-06	0.216653	0.672744	1.959608
3.45	0.2644	-0.00162	3.15E-06	0.216528	0.672356	1.958847
3.45	0.2644	-0.00162	3.15E-06	0.216404	0.671971	1.958093
3.45	0.2644	-0.00162	3.15E-06	0.216281	0.67159	1.957347
3.46	0.2644	-0.00162	3.15E-06	0.216159	0.671212	1.956606
3.46	0.2644	-0.00162	3.15E-06	0.216039	0.670837	1.955873
3.46	0.2644	-0.00162	3.15E-06	0.215919	0.670465	1.955145
3.46	0.2644	-0.00162	3.15E-06	0.2158	0.670096	1.954424
3.47	0.2644	-0.00162	3.15E-06	0.215682	0.66973	1.95371
3.47	0.2644	-0.00162	3.15E-06	0.215565	0.669367	1.953001
3.47	0.2644	-0.00162	3.15E-06	0.215449	0.669007	1.952298
3.47	0.2644	-0.00162	3.15E-06	0.215334	0.66865	1.951601
3.48	0.2644	-0.00162	3.15E-06	0.21522	0.668296	1.95091
3.48	0.2644	-0.00162	3.15E-06	0.215107	0.667944	1.950224
3.48	0.2644	-0.00162	3.15E-06	0.214995	0.667595	1.949544
3.48	0.2644	-0.00162	3.15E-06	0.214883	0.667249	1.948869
3.49	0.2644	-0.00162	3.15E-06	0.214773	0.666906	1.9482
3.49	0.2644	-0.00162	3.15E-06	0.214663	0.666565	1.947535
3.49	0.2644	-0.00162	3.15E-06	0.214554	0.666226	1.946876
3.49	0.2644	-0.00162	3.15E-06	0.214446	0.66589	1.946222
3.50	0.2644	-0.00162	3.15E-06	0.214338	0.665557	1.945573
3.50	0.2644	-0.00162	3.15E-06	0.214232	0.665226	1.944929
3.50	0.2644	-0.00162	3.15E-06	0.214126	0.664897	1.94429
3.50	0.2644	-0.00162	3.15E-06	0.214021	0.66457	1.943655
3.51	0.2644	-0.00162	3.15E-06	0.213916	0.664246	1.943026
3.51	0.2644	-0.00162	3.15E-06	0.213813	0.663924	1.9424
3.51	0.2644	-0.00162	3.15E-06	0.21371	0.663605	1.941779
3.51	0.2644	-0.00162	3.15E-06	0.213607	0.663287	1.941163
3.51	0.2644	-0.00162	3.15E-06	0.213506	0.662972	1.940551
3.52	0.2644	-0.00162	3.15E-06	0.213405	0.662659	1.939943
3.52	0.2644	-0.00162	3.15E-06	0.213305	0.662348	1.93934
3.52	0.2644	-0.00162	3.15E-06	0.213205	0.662039	1.938741
3.52	0.2644	-0.00162	3.15E-06	0.213106	0.661732	1.938146
3.52	0.2644	-0.00162	3.15E-06	0.213008	0.661427	1.937555
3.53	0.2644	-0.00162	3.15E-06	0.212911	0.661124	1.936968
3.53	0.2644	-0.00162	3.15E-06	0.212814	0.660823	1.936384
3.53	0.2644	-0.00162	3.15E-06	0.212717	0.660523	1.935805
3.53	0.2644	-0.00162	3.15E-06	0.212622	0.660226	1.93523
3.53	0.2644	-0.00162	3.15E-06	0.212526	0.659931	1.934658
3.54	0.2644	-0.00162	3.15E-06	0.212432	0.659637	1.93409
3.54	0.2644	-0.00162	3.15E-06	0.212338	0.659345	1.933526
3.54	0.2644	-0.00162	3.15E-06	0.212244	0.659055	1.932965
3.54	0.2644	-0.00162	3.15E-06	0.212152	0.658767	1.932408
3.54	0.2644	-0.00162	3.15E-06	0.212059	0.65848	1.931854
3.55	0.2644	-0.00162	3.15E-06	0.211968	0.658196	1.931304
3.55	0.2644	-0.00162	3.15E-06	0.211876	0.657912	1.930758
3.55	0.2644	-0.00162	3.15E-06	0.211786	0.657631	1.930214
3.55	0.2644	-0.00162	3.15E-06	0.211696	0.657351	1.929674
3.55	0.2644	-0.00162	3.15E-06	0.211606	0.657073	1.929138
3.56	0.2644	-0.00162	3.15E-06	0.211517	0.656796	1.928604

3.56	0.2644	-0.00162	3.15E-06	0.211428	0.656521	1.928074
3.56	0.2644	-0.00162	3.15E-06	0.21134	0.656248	1.927547
3.56	0.2644	-0.00162	3.15E-06	0.211253	0.655976	1.927023
3.56	0.2644	-0.00162	3.15E-06	0.211166	0.655706	1.926502
3.56	0.2644	-0.00162	3.15E-06	0.211079	0.655437	1.925984
3.57	0.2644	-0.00162	3.15E-06	0.210993	0.655169	1.925469
3.57	0.2644	-0.00162	3.15E-06	0.210907	0.654904	1.924957
3.57	0.2644	-0.00162	3.15E-06	0.210822	0.654639	1.924448
3.57	0.2644	-0.00162	3.15E-06	0.210738	0.654376	1.923942
3.57	0.2644	-0.00162	3.15E-06	0.210653	0.654114	1.923438
3.57	0.2644	-0.00162	3.15E-06	0.21057	0.653854	1.922938
3.58	0.2644	-0.00162	3.15E-06	0.210486	0.653595	1.92244
3.58	0.2644	-0.00162	3.15E-06	0.210403	0.653338	1.921945
3.58	0.2644	-0.00162	3.15E-06	0.210321	0.653082	1.921453
3.58	0.2644	-0.00162	3.15E-06	0.210239	0.652827	1.920964
3.58	0.2644	-0.00162	3.15E-06	0.210157	0.652573	1.920477
3.58	0.2644	-0.00162	3.15E-06	0.210076	0.652321	1.919992
3.59	0.2644	-0.00162	3.15E-06	0.209995	0.65207	1.919511
3.59	0.2644	-0.00162	3.15E-06	0.209915	0.651821	1.919032
3.59	0.2644	-0.00162	3.15E-06	0.209835	0.651572	1.918555
3.59	0.2644	-0.00162	3.15E-06	0.209755	0.651325	1.918081
3.59	0.2644	-0.00162	3.15E-06	0.209676	0.651079	1.917609
3.59	0.2644	-0.00162	3.15E-06	0.209597	0.650835	1.91714
3.60	0.2644	-0.00162	3.15E-06	0.209519	0.650591	1.916674
3.60	0.2644	-0.00162	3.15E-06	0.209441	0.650349	1.916209
3.60	0.2644	-0.00162	3.15E-06	0.209363	0.650108	1.915747
3.60	0.2644	-0.00162	3.15E-06	0.209286	0.649868	1.915288
3.60	0.2644	-0.00162	3.15E-06	0.209209	0.649629	1.91483
3.60	0.2644	-0.00162	3.15E-06	0.209132	0.649391	1.914375
3.60	0.2644	-0.00162	3.15E-06	0.209056	0.649155	1.913923
3.61	0.2644	-0.00162	3.15E-06	0.20898	0.648919	1.913472
3.61	0.2644	-0.00162	3.15E-06	0.208905	0.648685	1.913024
3.61	0.2644	-0.00162	3.15E-06	0.20883	0.648452	1.912578
3.61	0.2644	-0.00162	3.15E-06	0.208755	0.64822	1.912134
3.61	0.2644	-0.00162	3.15E-06	0.208681	0.647989	1.911692
3.61	0.2644	-0.00162	3.15E-06	0.208606	0.647759	1.911252
3.61	0.2644	-0.00162	3.15E-06	0.208533	0.64753	1.910815
3.62	0.2644	-0.00162	3.15E-06	0.208459	0.647302	1.910379
3.62	0.2644	-0.00162	3.15E-06	0.208386	0.647075	1.909946
3.62	0.2644	-0.00162	3.15E-06	0.208314	0.646849	1.909514
3.62	0.2644	-0.00162	3.15E-06	0.208241	0.646624	1.909085
3.62	0.2644	-0.00162	3.15E-06	0.208169	0.6464	1.908658
3.62	0.2644	-0.00162	3.15E-06	0.208097	0.646177	1.908232
3.62	0.2644	-0.00162	3.15E-06	0.208026	0.645955	1.907809
3.63	0.2644	-0.00162	3.15E-06	0.207955	0.645734	1.907387
3.63	0.2644	-0.00162	3.15E-06	0.207884	0.645514	1.906968
3.63	0.2644	-0.00162	3.15E-06	0.207813	0.645295	1.90655
3.63	0.2644	-0.00162	3.15E-06	0.207743	0.645077	1.906134
3.63	0.2644	-0.00162	3.15E-06	0.207673	0.64486	1.90572
3.63	0.2644	-0.00162	3.15E-06	0.207603	0.644644	1.905308

3.63	0.2644	-0.00162	3.15E-06	0.207534	0.644428	1.904898
3.64	0.2644	-0.00162	3.15E-06	0.207465	0.644214	1.904489
3.64	0.2644	-0.00162	3.15E-06	0.207396	0.644	1.904083
3.64	0.2644	-0.00162	3.15E-06	0.207328	0.643788	1.903678
3.64	0.2644	-0.00162	3.15E-06	0.207259	0.643576	1.903275
3.64	0.2644	-0.00162	3.15E-06	0.207192	0.643365	1.902873
3.64	0.2644	-0.00162	3.15E-06	0.207124	0.643155	1.902474
3.64	0.2644	-0.00162	3.15E-06	0.207057	0.642946	1.902076
3.64	0.2644	-0.00162	3.15E-06	0.206989	0.642737	1.901679
3.65	0.2644	-0.00162	3.15E-06	0.206923	0.64253	1.901285
3.65	0.2644	-0.00162	3.15E-06	0.206856	0.642323	1.900892
3.65	0.2644	-0.00162	3.15E-06	0.20679	0.642117	1.900501
3.65	0.2644	-0.00162	3.15E-06	0.206724	0.641912	1.900111
3.65	0.2644	-0.00162	3.15E-06	0.206658	0.641708	1.899723
3.65	0.2644	-0.00162	3.15E-06	0.206592	0.641505	1.899337
3.65	0.2644	-0.00162	3.15E-06	0.206527	0.641302	1.898952
3.65	0.2644	-0.00162	3.15E-06	0.206462	0.6411	1.898569
3.66	0.2644	-0.00162	3.15E-06	0.206397	0.640899	1.898187
3.66	0.2644	-0.00162	3.15E-06	0.206333	0.640699	1.897807
3.66	0.2644	-0.00162	3.15E-06	0.206269	0.640499	1.897428
3.66	0.2644	-0.00162	3.15E-06	0.206205	0.640301	1.897051
3.66	0.2644	-0.00162	3.15E-06	0.206141	0.640103	1.896676
3.66	0.2644	-0.00162	3.15E-06	0.206077	0.639905	1.896301
3.66	0.2644	-0.00162	3.15E-06	0.206014	0.639709	1.895929
3.66	0.2644	-0.00162	3.15E-06	0.205951	0.639513	1.895558
3.67	0.2644	-0.00162	3.15E-06	0.205888	0.639318	1.895188
3.67	0.2644	-0.00162	3.15E-06	0.205826	0.639124	1.89482
3.67	0.2644	-0.00162	3.15E-06	0.205763	0.63893	1.894453
3.67	0.2644	-0.00162	3.15E-06	0.205701	0.638737	1.894088
3.67	0.2644	-0.00162	3.15E-06	0.205639	0.638545	1.893724
3.67	0.2644	-0.00162	3.15E-06	0.205578	0.638354	1.893361
3.67	0.2644	-0.00162	3.15E-06	0.205516	0.638163	1.893
3.67	0.2644	-0.00162	3.15E-06	0.205455	0.637973	1.89264
3.67	0.2644	-0.00162	3.15E-06	0.205394	0.637783	1.892282
3.68	0.2644	-0.00162	3.15E-06	0.205333	0.637595	1.891925
3.68	0.2644	-0.00162	3.15E-06	0.205273	0.637407	1.891569
3.68	0.2644	-0.00162	3.15E-06	0.205212	0.637219	1.891215
3.68	0.2644	-0.00162	3.15E-06	0.205152	0.637033	1.890862
3.68	0.2644	-0.00162	3.15E-06	0.205092	0.636846	1.89051
3.68	0.2644	-0.00162	3.15E-06	0.205033	0.636661	1.890159
3.68	0.2644	-0.00162	3.15E-06	0.204973	0.636476	1.88981
3.68	0.2644	-0.00162	3.15E-06	0.204914	0.636292	1.889462
3.68	0.2644	-0.00162	3.15E-06	0.204855	0.636109	1.889115
3.69	0.2644	-0.00162	3.15E-06	0.204796	0.635926	1.88877
3.69	0.2644	-0.00162	3.15E-06	0.204737	0.635744	1.888426
3.69	0.2644	-0.00162	3.15E-06	0.204679	0.635562	1.888083
3.69	0.2644	-0.00162	3.15E-06	0.20462	0.635381	1.887741
3.69	0.2644	-0.00162	3.15E-06	0.204562	0.635201	1.887401
3.69	0.2644	-0.00162	3.15E-06	0.204504	0.635021	1.887062
3.69	0.2644	-0.00162	3.15E-06	0.204447	0.634842	1.886724

3.69	0.2644	-0.00162	3.15E-06	0.204389	0.634663	1.886387
3.69	0.2644	-0.00162	3.15E-06	0.204332	0.634485	1.886051
3.69	0.2644	-0.00162	3.15E-06	0.204275	0.634308	1.885717
3.70	0.2644	-0.00162	3.15E-06	0.204218	0.634131	1.885383
3.70	0.2644	-0.00162	3.15E-06	0.204161	0.633955	1.885051
3.70	0.2644	-0.00162	3.15E-06	0.204105	0.633779	1.88472
3.70	0.2644	-0.00162	3.15E-06	0.204048	0.633604	1.88439
3.70	0.2644	-0.00162	3.15E-06	0.203992	0.63343	1.884061
3.70	0.2644	-0.00162	3.15E-06	0.203936	0.633256	1.883734
3.70	0.2644	-0.00162	3.15E-06	0.20388	0.633082	1.883407
3.70	0.2644	-0.00162	3.15E-06	0.203824	0.63291	1.883082
3.70	0.2644	-0.00162	3.15E-06	0.203769	0.632737	1.882757
3.70	0.2644	-0.00162	3.15E-06	0.203714	0.632566	1.882434
3.71	0.2644	-0.00162	3.15E-06	0.203659	0.632395	1.882112
3.71	0.2644	-0.00162	3.15E-06	0.203604	0.632224	1.881791
3.71	0.2644	-0.00162	3.15E-06	0.203549	0.632054	1.881471
3.71	0.2644	-0.00162	3.15E-06	0.203494	0.631884	1.881152
3.71	0.2644	-0.00162	3.15E-06	0.20344	0.631715	1.880834
3.71	0.2644	-0.00162	3.15E-06	0.203386	0.631547	1.880517
3.71	0.2644	-0.00162	3.15E-06	0.203332	0.631379	1.880201
3.71	0.2644	-0.00162	3.15E-06	0.203278	0.631211	1.879887
3.71	0.2644	-0.00162	3.15E-06	0.203224	0.631045	1.879573
3.71	0.2644	-0.00162	3.15E-06	0.20317	0.630878	1.87926
3.72	0.2644	-0.00162	3.15E-06	0.203117	0.630712	1.878948
3.72	0.2644	-0.00162	3.15E-06	0.203064	0.630547	1.878638
3.72	0.2644	-0.00162	3.15E-06	0.20301	0.630382	1.878328
3.72	0.2644	-0.00162	3.15E-06	0.202957	0.630218	1.878019
3.72	0.2644	-0.00162	3.15E-06	0.202905	0.630054	1.877711
3.72	0.2644	-0.00162	3.15E-06	0.202852	0.62989	1.877405
3.72	0.2644	-0.00162	3.15E-06	0.2028	0.629727	1.877099
3.72	0.2644	-0.00162	3.15E-06	0.202747	0.629565	1.876794
3.72	0.2644	-0.00162	3.15E-06	0.202695	0.629403	1.87649
3.72	0.2644	-0.00162	3.15E-06	0.202643	0.629241	1.876187
3.73	0.2644	-0.00162	3.15E-06	0.202591	0.62908	1.875885
3.73	0.2644	-0.00162	3.15E-06	0.20254	0.62892	1.875584
3.73	0.2644	-0.00162	3.15E-06	0.202488	0.62876	1.875284
3.73	0.2644	-0.00162	3.15E-06	0.202437	0.6286	1.874984
3.73	0.2644	-0.00162	3.15E-06	0.202385	0.628441	1.874686
3.73	0.2644	-0.00162	3.15E-06	0.202334	0.628283	1.874389
3.73	0.2644	-0.00162	3.15E-06	0.202283	0.628124	1.874092
3.73	0.2644	-0.00162	3.15E-06	0.202233	0.627967	1.873796
3.73	0.2644	-0.00162	3.15E-06	0.202182	0.627809	1.873502
3.73	0.2644	-0.00162	3.15E-06	0.202131	0.627652	1.873208
3.73	0.2644	-0.00162	3.15E-06	0.202081	0.627496	1.872915
3.73	0.2644	-0.00162	3.15E-06	0.202031	0.62734	1.872623
3.74	0.2644	-0.00162	3.15E-06	0.201981	0.627184	1.872332
3.74	0.2644	-0.00162	3.15E-06	0.201931	0.627029	1.872041
3.74	0.2644	-0.00162	3.15E-06	0.201881	0.626875	1.871752
3.74	0.2644	-0.00162	3.15E-06	0.201831	0.626721	1.871463
3.74	0.2644	-0.00162	3.15E-06	0.201782	0.626567	1.871175

3.74	0.2644	-0.00162	3.15E-06	0.201732	0.626413	1.870888
3.74	0.2644	-0.00162	3.15E-06	0.201683	0.62626	1.870602
3.74	0.2644	-0.00162	3.15E-06	0.201634	0.626108	1.870317
3.74	0.2644	-0.00162	3.15E-06	0.201585	0.625956	1.870033
3.74	0.2644	-0.00162	3.15E-06	0.201536	0.625804	1.869749
3.74	0.2644	-0.00162	3.15E-06	0.201487	0.625653	1.869466
3.75	0.2644	-0.00162	3.15E-06	0.201439	0.625502	1.869184
3.75	0.2644	-0.00162	3.15E-06	0.20139	0.625352	1.868903
3.75	0.2644	-0.00162	3.15E-06	0.201342	0.625202	1.868622
3.75	0.2644	-0.00162	3.15E-06	0.201294	0.625052	1.868343
3.75	0.2644	-0.00162	3.15E-06	0.201246	0.624903	1.868064
3.75	0.2644	-0.00162	3.15E-06	0.201198	0.624754	1.867786
3.75	0.2644	-0.00162	3.15E-06	0.20115	0.624605	1.867509
3.75	0.2644	-0.00162	3.15E-06	0.201102	0.624457	1.867232
3.75	0.2644	-0.00162	3.15E-06	0.201055	0.62431	1.866957
3.75	0.2644	-0.00162	3.15E-06	0.201007	0.624162	1.866682
3.75	0.2644	-0.00162	3.15E-06	0.20096	0.624016	1.866408
3.75	0.2644	-0.00162	3.15E-06	0.200913	0.623869	1.866134
3.76	0.2644	-0.00162	3.15E-06	0.200866	0.623723	1.865862
3.76	0.2644	-0.00162	3.15E-06	0.200819	0.623577	1.86559
3.76	0.2644	-0.00162	3.15E-06	0.200772	0.623432	1.865319
3.76	0.2644	-0.00162	3.15E-06	0.200726	0.623287	1.865048
3.76	0.2644	-0.00162	3.15E-06	0.200679	0.623142	1.864778
3.76	0.2644	-0.00162	3.15E-06	0.200632	0.622998	1.86451
3.76	0.2644	-0.00162	3.15E-06	0.200586	0.622854	1.864241
3.76	0.2644	-0.00162	3.15E-06	0.20054	0.622711	1.863974
3.76	0.2644	-0.00162	3.15E-06	0.200494	0.622568	1.863707
3.76	0.2644	-0.00162	3.15E-06	0.200448	0.622425	1.863441
3.76	0.2644	-0.00162	3.15E-06	0.200402	0.622282	1.863176
3.76	0.2644	-0.00162	3.15E-06	0.200356	0.62214	1.862911
3.76	0.2644	-0.00162	3.15E-06	0.200311	0.621999	1.862647
3.77	0.2644	-0.00162	3.15E-06	0.200265	0.621857	1.862384
3.77	0.2644	-0.00162	3.15E-06	0.20022	0.621716	1.862121
3.77	0.2644	-0.00162	3.15E-06	0.200174	0.621576	1.86186
3.77	0.2644	-0.00162	3.15E-06	0.200129	0.621436	1.861598
3.77	0.2644	-0.00162	3.15E-06	0.200084	0.621296	1.861338
3.77	0.2644	-0.00162	3.15E-06	0.200039	0.621156	1.861078
3.77	0.2644	-0.00162	3.15E-06	0.199994	0.621017	1.860819
3.77	0.2644	-0.00162	3.15E-06	0.19995	0.620878	1.860561
3.77	0.2644	-0.00162	3.15E-06	0.199905	0.620739	1.860303
3.77	0.2644	-0.00162	3.15E-06	0.199861	0.620601	1.860046
3.77	0.2644	-0.00162	3.15E-06	0.199816	0.620463	1.859789
3.77	0.2644	-0.00162	3.15E-06	0.199772	0.620326	1.859534
3.77	0.2644	-0.00162	3.15E-06	0.199728	0.620189	1.859279
3.78	0.2644	-0.00162	3.15E-06	0.199684	0.620052	1.859024
3.78	0.2644	-0.00162	3.15E-06	0.19964	0.619915	1.85877
3.78	0.2644	-0.00162	3.15E-06	0.199596	0.619779	1.858517
3.78	0.2644	-0.00162	3.15E-06	0.199552	0.619643	1.858265
3.78	0.2644	-0.00162	3.15E-06	0.199508	0.619507	1.858013
3.78	0.2644	-0.00162	3.15E-06	0.199465	0.619372	1.857761

3.78	0.2644	-0.00162	3.15E-06	0.199421	0.619237	1.857511
3.78	0.2644	-0.00162	3.15E-06	0.199378	0.619103	1.857261
3.78	0.2644	-0.00162	3.15E-06	0.199335	0.618968	1.857011
3.78	0.2644	-0.00162	3.15E-06	0.199292	0.618834	1.856763
3.78	0.2644	-0.00162	3.15E-06	0.199249	0.618701	1.856514
3.78	0.2644	-0.00162	3.15E-06	0.199206	0.618567	1.856267
3.78	0.2644	-0.00162	3.15E-06	0.199163	0.618434	1.85602
3.79	0.2644	-0.00162	3.15E-06	0.19912	0.618302	1.855774
3.79	0.2644	-0.00162	3.15E-06	0.199077	0.618169	1.855528
3.79	0.2644	-0.00162	3.15E-06	0.199035	0.618037	1.855283
3.79	0.2644	-0.00162	3.15E-06	0.198992	0.617905	1.855038
3.79	0.2644	-0.00162	3.15E-06	0.19895	0.617774	1.854794
3.79	0.2644	-0.00162	3.15E-06	0.198908	0.617643	1.854551
3.79	0.2644	-0.00162	3.15E-06	0.198866	0.617512	1.854308
3.79	0.2644	-0.00162	3.15E-06	0.198824	0.617381	1.854066
3.79	0.2644	-0.00162	3.15E-06	0.198782	0.617251	1.853824
3.79	0.2644	-0.00162	3.15E-06	0.19874	0.617121	1.853583
3.79	0.2644	-0.00162	3.15E-06	0.198698	0.616991	1.853343
3.79	0.2644	-0.00162	3.15E-06	0.198656	0.616862	1.853103
3.79	0.2644	-0.00162	3.15E-06	0.198615	0.616732	1.852864
3.79	0.2644	-0.00162	3.15E-06	0.198573	0.616604	1.852625
3.80	0.2644	-0.00162	3.15E-06	0.198532	0.616475	1.852387
3.80	0.2644	-0.00162	3.15E-06	0.198491	0.616347	1.852149
3.80	0.2644	-0.00162	3.15E-06	0.198449	0.616219	1.851912
3.80	0.2644	-0.00162	3.15E-06	0.198408	0.616091	1.851676
3.80	0.2644	-0.00162	3.15E-06	0.198367	0.615964	1.85144
3.80	0.2644	-0.00162	3.15E-06	0.198326	0.615837	1.851205
3.80	0.2644	-0.00162	3.15E-06	0.198285	0.61571	1.85097
3.80	0.2644	-0.00162	3.15E-06	0.198245	0.615583	1.850735
3.80	0.2644	-0.00162	3.15E-06	0.198204	0.615457	1.850502
3.80	0.2644	-0.00162	3.15E-06	0.198163	0.615331	1.850269
3.80	0.2644	-0.00162	3.15E-06	0.198123	0.615205	1.850036
3.80	0.2644	-0.00162	3.15E-06	0.198082	0.61508	1.849804
3.80	0.2644	-0.00162	3.15E-06	0.198042	0.614954	1.849572
3.80	0.2644	-0.00162	3.15E-06	0.198002	0.614829	1.849341
3.80	0.2644	-0.00162	3.15E-06	0.197962	0.614705	1.849111
3.81	0.2644	-0.00162	3.15E-06	0.197922	0.61458	1.848881
3.81	0.2644	-0.00162	3.15E-06	0.197882	0.614456	1.848651
3.81	0.2644	-0.00162	3.15E-06	0.197842	0.614332	1.848422
3.81	0.2644	-0.00162	3.15E-06	0.197802	0.614209	1.848194
3.81	0.2644	-0.00162	3.15E-06	0.197762	0.614085	1.847966
3.81	0.2644	-0.00162	3.15E-06	0.197723	0.613962	1.847738
3.81	0.2644	-0.00162	3.15E-06	0.197683	0.613839	1.847511
3.81	0.2644	-0.00162	3.15E-06	0.197644	0.613717	1.847285
3.81	0.2644	-0.00162	3.15E-06	0.197604	0.613595	1.847059
3.81	0.2644	-0.00162	3.15E-06	0.197565	0.613473	1.846834
3.81	0.2644	-0.00162	3.15E-06	0.197526	0.613351	1.846609
3.81	0.2644	-0.00162	3.15E-06	0.197487	0.613229	1.846384
3.81	0.2644	-0.00162	3.15E-06	0.197447	0.613108	1.84616
3.81	0.2644	-0.00162	3.15E-06	0.197408	0.612987	1.845937

3.81	0.2644	-0.00162	3.15E-06	0.19737	0.612866	1.845714
3.81	0.2644	-0.00162	3.15E-06	0.197331	0.612746	1.845491
3.82	0.2644	-0.00162	3.15E-06	0.197292	0.612625	1.845269
3.82	0.2644	-0.00162	3.15E-06	0.197253	0.612505	1.845048
3.82	0.2644	-0.00162	3.15E-06	0.197215	0.612385	1.844827
3.82	0.2644	-0.00162	3.15E-06	0.197176	0.612266	1.844606
3.82	0.2644	-0.00162	3.15E-06	0.197138	0.612147	1.844386
3.82	0.2644	-0.00162	3.15E-06	0.1971	0.612028	1.844167
3.82	0.2644	-0.00162	3.15E-06	0.197061	0.611909	1.843948
3.82	0.2644	-0.00162	3.15E-06	0.197023	0.61179	1.843729
3.82	0.2644	-0.00162	3.15E-06	0.196985	0.611672	1.843511
3.82	0.2644	-0.00162	3.15E-06	0.196947	0.611554	1.843293
3.82	0.2644	-0.00162	3.15E-06	0.196909	0.611436	1.843076
3.82	0.2644	-0.00162	3.15E-06	0.196871	0.611318	1.842859
3.82	0.2644	-0.00162	3.15E-06	0.196833	0.611201	1.842643
3.82	0.2644	-0.00162	3.15E-06	0.196796	0.611084	1.842427
3.82	0.2644	-0.00162	3.15E-06	0.196758	0.610967	1.842212
3.83	0.2644	-0.00162	3.15E-06	0.19672	0.61085	1.841997
3.83	0.2644	-0.00162	3.15E-06	0.196683	0.610734	1.841782
3.83	0.2644	-0.00162	3.15E-06	0.196645	0.610617	1.841568
3.83	0.2644	-0.00162	3.15E-06	0.196608	0.610501	1.841354
3.83	0.2644	-0.00162	3.15E-06	0.196571	0.610386	1.841141
3.83	0.2644	-0.00162	3.15E-06	0.196534	0.61027	1.840929
3.83	0.2644	-0.00162	3.15E-06	0.196496	0.610155	1.840716
3.83	0.2644	-0.00162	3.15E-06	0.196459	0.61004	1.840504
3.83	0.2644	-0.00162	3.15E-06	0.196422	0.609925	1.840293
3.83	0.2644	-0.00162	3.15E-06	0.196385	0.60981	1.840082
3.83	0.2644	-0.00162	3.15E-06	0.196349	0.609696	1.839872
3.83	0.2644	-0.00162	3.15E-06	0.196312	0.609582	1.839661
3.83	0.2644	-0.00162	3.15E-06	0.196275	0.609468	1.839452
3.83	0.2644	-0.00162	3.15E-06	0.196238	0.609354	1.839243
3.83	0.2644	-0.00162	3.15E-06	0.196202	0.60924	1.839034
3.83	0.2644	-0.00162	3.15E-06	0.196165	0.609127	1.838825
3.83	0.2644	-0.00162	3.15E-06	0.196129	0.609014	1.838617
3.84	0.2644	-0.00162	3.15E-06	0.196093	0.608901	1.83841
3.84	0.2644	-0.00162	3.15E-06	0.196056	0.608788	1.838203
3.84	0.2644	-0.00162	3.15E-06	0.19602	0.608676	1.837996
3.84	0.2644	-0.00162	3.15E-06	0.195984	0.608564	1.83779
3.84	0.2644	-0.00162	3.15E-06	0.195948	0.608452	1.837584
3.84	0.2644	-0.00162	3.15E-06	0.195912	0.60834	1.837378
3.84	0.2644	-0.00162	3.15E-06	0.195876	0.608228	1.837173
3.84	0.2644	-0.00162	3.15E-06	0.19584	0.608117	1.836969
3.84	0.2644	-0.00162	3.15E-06	0.195804	0.608005	1.836764
3.84	0.2644	-0.00162	3.15E-06	0.195768	0.607894	1.83656
3.84	0.2644	-0.00162	3.15E-06	0.195733	0.607784	1.836357
3.84	0.2644	-0.00162	3.15E-06	0.195697	0.607673	1.836154
3.84	0.2644	-0.00162	3.15E-06	0.195662	0.607563	1.835951
3.84	0.2644	-0.00162	3.15E-06	0.195626	0.607453	1.835749
3.84	0.2644	-0.00162	3.15E-06	0.195591	0.607343	1.835547
3.84	0.2644	-0.00162	3.15E-06	0.195555	0.607233	1.835346

3.84	0.2644	-0.00162	3.15E-06	0.19552	0.607123	1.835145
3.85	0.2644	-0.00162	3.15E-06	0.195485	0.607014	1.834944
3.85	0.2644	-0.00162	3.15E-06	0.19545	0.606905	1.834744
3.85	0.2644	-0.00162	3.15E-06	0.195415	0.606796	1.834544
3.85	0.2644	-0.00162	3.15E-06	0.19538	0.606687	1.834344
3.85	0.2644	-0.00162	3.15E-06	0.195345	0.606579	1.834145
3.85	0.2644	-0.00162	3.15E-06	0.19531	0.60647	1.833946
3.85	0.2644	-0.00162	3.15E-06	0.195275	0.606362	1.833748
3.85	0.2644	-0.00162	3.15E-06	0.19524	0.606254	1.83355
3.85	0.2644	-0.00162	3.15E-06	0.195205	0.606146	1.833352
3.85	0.2644	-0.00162	3.15E-06	0.195171	0.606039	1.833155
3.85	0.2644	-0.00162	3.15E-06	0.195136	0.605931	1.832958
3.85	0.2644	-0.00162	3.15E-06	0.195102	0.605824	1.832762
3.85	0.2644	-0.00162	3.15E-06	0.195067	0.605717	1.832566
3.85	0.2644	-0.00162	3.15E-06	0.195033	0.60561	1.83237
3.85	0.2644	-0.00162	3.15E-06	0.194999	0.605504	1.832175
3.85	0.2644	-0.00162	3.15E-06	0.194964	0.605397	1.83198
3.85	0.2644	-0.00162	3.15E-06	0.19493	0.605291	1.831785
3.85	0.2644	-0.00162	3.15E-06	0.194896	0.605185	1.831591
3.86	0.2644	-0.00162	3.15E-06	0.194862	0.605079	1.831397
3.86	0.2644	-0.00162	3.15E-06	0.194828	0.604973	1.831203
3.86	0.2644	-0.00162	3.15E-06	0.194794	0.604868	1.83101
3.86	0.2644	-0.00162	3.15E-06	0.19476	0.604763	1.830817
3.86	0.2644	-0.00162	3.15E-06	0.194726	0.604657	1.830625
3.86	0.2644	-0.00162	3.15E-06	0.194692	0.604552	1.830433
3.86	0.2644	-0.00162	3.15E-06	0.194658	0.604448	1.830241
3.86	0.2644	-0.00162	3.15E-06	0.194625	0.604343	1.83005
3.86	0.2644	-0.00162	3.15E-06	0.194591	0.604239	1.829859
3.86	0.2644	-0.00162	3.15E-06	0.194558	0.604134	1.829668
3.86	0.2644	-0.00162	3.15E-06	0.194524	0.60403	1.829478
3.86	0.2644	-0.00162	3.15E-06	0.194491	0.603927	1.829288
3.86	0.2644	-0.00162	3.15E-06	0.194457	0.603823	1.829098
3.86	0.2644	-0.00162	3.15E-06	0.194424	0.603719	1.828909
3.86	0.2644	-0.00162	3.15E-06	0.194391	0.603616	1.82872
3.86	0.2644	-0.00162	3.15E-06	0.194357	0.603513	1.828531
3.86	0.2644	-0.00162	3.15E-06	0.194324	0.60341	1.828343
3.86	0.2644	-0.00162	3.15E-06	0.194291	0.603307	1.828155
3.86	0.2644	-0.00162	3.15E-06	0.194258	0.603205	1.827967
3.87	0.2644	-0.00162	3.15E-06	0.194225	0.603102	1.82778
3.87	0.2644	-0.00162	3.15E-06	0.194192	0.603	1.827593
3.87	0.2644	-0.00162	3.15E-06	0.194159	0.602898	1.827406
3.87	0.2644	-0.00162	3.15E-06	0.194126	0.602796	1.82722
3.87	0.2644	-0.00162	3.15E-06	0.194094	0.602694	1.827034
3.87	0.2644	-0.00162	3.15E-06	0.194061	0.602592	1.826849
3.87	0.2644	-0.00162	3.15E-06	0.194028	0.602491	1.826663
3.87	0.2644	-0.00162	3.15E-06	0.193996	0.60239	1.826478
3.87	0.2644	-0.00162	3.15E-06	0.193963	0.602289	1.826294
3.87	0.2644	-0.00162	3.15E-06	0.193931	0.602188	1.82611
3.87	0.2644	-0.00162	3.15E-06	0.193898	0.602087	1.825926
3.87	0.2644	-0.00162	3.15E-06	0.193866	0.601986	1.825742

3.87	0.2644	-0.00162	3.15E-06	0.193834	0.601886	1.825559
3.87	0.2644	-0.00162	3.15E-06	0.193801	0.601786	1.825376
3.87	0.2644	-0.00162	3.15E-06	0.193769	0.601686	1.825193
3.87	0.2644	-0.00162	3.15E-06	0.193737	0.601586	1.825011
3.87	0.2644	-0.00162	3.15E-06	0.193705	0.601486	1.824829
3.87	0.2644	-0.00162	3.15E-06	0.193673	0.601386	1.824647
3.87	0.2644	-0.00162	3.15E-06	0.193641	0.601287	1.824465
3.88	0.2644	-0.00162	3.15E-06	0.193609	0.601188	1.824284
3.88	0.2644	-0.00162	3.15E-06	0.193577	0.601089	1.824104
3.88	0.2644	-0.00162	3.15E-06	0.193545	0.60099	1.823923
3.88	0.2644	-0.00162	3.15E-06	0.193513	0.600891	1.823743
3.88	0.2644	-0.00162	3.15E-06	0.193481	0.600792	1.823563
3.88	0.2644	-0.00162	3.15E-06	0.19345	0.600694	1.823384
3.88	0.2644	-0.00162	3.15E-06	0.193418	0.600596	1.823204
3.88	0.2644	-0.00162	3.15E-06	0.193386	0.600497	1.823025
3.88	0.2644	-0.00162	3.15E-06	0.193355	0.600399	1.822847
3.88	0.2644	-0.00162	3.15E-06	0.193323	0.600302	1.822668
3.88	0.2644	-0.00162	3.15E-06	0.193292	0.600204	1.82249
3.88	0.2644	-0.00162	3.15E-06	0.19326	0.600106	1.822313
3.88	0.2644	-0.00162	3.15E-06	0.193229	0.600009	1.822135
3.88	0.2644	-0.00162	3.15E-06	0.193198	0.599912	1.821958
3.88	0.2644	-0.00162	3.15E-06	0.193166	0.599815	1.821781
3.88	0.2644	-0.00162	3.15E-06	0.193135	0.599718	1.821605
3.88	0.2644	-0.00162	3.15E-06	0.193104	0.599621	1.821429
3.88	0.2644	-0.00162	3.15E-06	0.193073	0.599525	1.821253
3.88	0.2644	-0.00162	3.15E-06	0.193042	0.599428	1.821077
3.88	0.2644	-0.00162	3.15E-06	0.193011	0.599332	1.820902
3.88	0.2644	-0.00162	3.15E-06	0.19298	0.599236	1.820727
3.89	0.2644	-0.00162	3.15E-06	0.192949	0.59914	1.820552
3.89	0.2644	-0.00162	3.15E-06	0.192918	0.599044	1.820378
3.89	0.2644	-0.00162	3.15E-06	0.192887	0.598948	1.820203
3.89	0.2644	-0.00162	3.15E-06	0.192857	0.598853	1.82003
3.89	0.2644	-0.00162	3.15E-06	0.192826	0.598757	1.819856
3.89	0.2644	-0.00162	3.15E-06	0.192795	0.598662	1.819683
3.89	0.2644	-0.00162	3.15E-06	0.192765	0.598567	1.81951
3.89	0.2644	-0.00162	3.15E-06	0.192734	0.598472	1.819337
3.89	0.2644	-0.00162	3.15E-06	0.192704	0.598377	1.819164
3.89	0.2644	-0.00162	3.15E-06	0.192673	0.598283	1.818992
3.89	0.2644	-0.00162	3.15E-06	0.192643	0.598188	1.81882
3.89	0.2644	-0.00162	3.15E-06	0.192612	0.598094	1.818649
3.89	0.2644	-0.00162	3.15E-06	0.192582	0.598	1.818477
3.89	0.2644	-0.00162	3.15E-06	0.192552	0.597905	1.818306
3.89	0.2644	-0.00162	3.15E-06	0.192521	0.597812	1.818136
3.89	0.2644	-0.00162	3.15E-06	0.192491	0.597718	1.817965
3.89	0.2644	-0.00162	3.15E-06	0.192461	0.597624	1.817795
3.89	0.2644	-0.00162	3.15E-06	0.192431	0.597531	1.817625
3.89	0.2644	-0.00162	3.15E-06	0.192401	0.597437	1.817455
3.89	0.2644	-0.00162	3.15E-06	0.192371	0.597344	1.817286
3.89	0.2644	-0.00162	3.15E-06	0.192341	0.597251	1.817117
3.90	0.2644	-0.00162	3.15E-06	0.192311	0.597158	1.816948

3.90	0.2644	-0.00162	3.15E-06	0.192281	0.597065	1.816779
3.90	0.2644	-0.00162	3.15E-06	0.192251	0.596973	1.816611
3.90	0.2644	-0.00162	3.15E-06	0.192221	0.59688	1.816443
3.90	0.2644	-0.00162	3.15E-06	0.192192	0.596788	1.816275
3.90	0.2644	-0.00162	3.15E-06	0.192162	0.596695	1.816107
3.90	0.2644	-0.00162	3.15E-06	0.192132	0.596603	1.81594
3.90	0.2644	-0.00162	3.15E-06	0.192103	0.596511	1.815773
3.90	0.2644	-0.00162	3.15E-06	0.192073	0.59642	1.815606
3.90	0.2644	-0.00162	3.15E-06	0.192044	0.596328	1.81544
3.90	0.2644	-0.00162	3.15E-06	0.192014	0.596236	1.815274
3.90	0.2644	-0.00162	3.15E-06	0.191985	0.596145	1.815108
3.90	0.2644	-0.00162	3.15E-06	0.191955	0.596054	1.814942
3.90	0.2644	-0.00162	3.15E-06	0.191926	0.595962	1.814777
3.90	0.2644	-0.00162	3.15E-06	0.191897	0.595871	1.814612
3.90	0.2644	-0.00162	3.15E-06	0.191867	0.595781	1.814447
3.90	0.2644	-0.00162	3.15E-06	0.191838	0.59569	1.814282
3.90	0.2644	-0.00162	3.15E-06	0.191809	0.595599	1.814118
3.90	0.2644	-0.00162	3.15E-06	0.19178	0.595509	1.813953
3.90	0.2644	-0.00162	3.15E-06	0.191751	0.595418	1.81379
3.90	0.2644	-0.00162	3.15E-06	0.191722	0.595328	1.813626
3.90	0.2644	-0.00162	3.15E-06	0.191693	0.595238	1.813462
3.91	0.2644	-0.00162	3.15E-06	0.191664	0.595148	1.813299
3.91	0.2644	-0.00162	3.15E-06	0.191635	0.595058	1.813136
3.91	0.2644	-0.00162	3.15E-06	0.191606	0.594969	1.812974
3.91	0.2644	-0.00162	3.15E-06	0.191577	0.594879	1.812811
3.91	0.2644	-0.00162	3.15E-06	0.191548	0.594789	1.812649
3.91	0.2644	-0.00162	3.15E-06	0.191519	0.5947	1.812487
3.91	0.2644	-0.00162	3.15E-06	0.191491	0.594611	1.812326
3.91	0.2644	-0.00162	3.15E-06	0.191462	0.594522	1.812164
3.91	0.2644	-0.00162	3.15E-06	0.191433	0.594433	1.812003
3.91	0.2644	-0.00162	3.15E-06	0.191405	0.594344	1.811842
3.91	0.2644	-0.00162	3.15E-06	0.191376	0.594256	1.811682
3.91	0.2644	-0.00162	3.15E-06	0.191348	0.594167	1.811521
3.91	0.2644	-0.00162	3.15E-06	0.191319	0.594079	1.811361
3.91	0.2644	-0.00162	3.15E-06	0.191291	0.59399	1.811201
3.91	0.2644	-0.00162	3.15E-06	0.191262	0.593902	1.811041

Location Index	
England and Wales	1
Scotland and Ireland	2

From Design and Analysis of Urban Storm Drainage, The Wallingford Procedure, Vol 1

Table 6.1 Values of Constants to calculate Cr

Geographic Location	Range of M5-D	Location Index	J0	J1	J2
England and Wales	0-10	1	0.1699	0.0028	0.000114
	11-30		0.1644	0.005831	-0.00013
	31-75		0.2644	-0.00162	3.15E-06
	76-150		0.2718	-0.00195	6.19E-06
	>150		0.1454	-0.00019	1.14E-07

APPENDIX 8

UU SEWER PLANS

Integra Consulting

**14-32
Hewitt Street,
Manchester,
M15 4GB**

FAO:

How to contact us:

**United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP**

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

**Your Ref: MIOC
Our Ref: UUPS-ORD-189085
Date: 31/08/2020**

Dear Sirs

Location: MIOC

I acknowledge with thanks your request dated 23/08/2020 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack
Property Searches Manager

TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

TERMS AND CONDITIONS:

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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All four anions follow the standard colour development:
 red - zinc(II) (blue - surface water)
 (orange) - lead purple - overflow

- [illegible]

MANHOLE FUNCTION

- FD Fuel
GW Surface Water
DO Oxygen
DQ Dissolved

SERVING SINGAPORE

- | | | |
|---------------|----|---------|
| Circle | PH | Topical |
| 1 Right | AP | Acet |
| 2 Oval | BA | Barel |
| 3 Flat Top | HO | Horn |
| 4 Rectangular | ON | Onion |
| 5 Square | | |

REVIEW MATERIAL.

- | C | Address | Comment |
|----|-----------------------------|---------|
| 1 | Rock | |
| 2 | Polystyrene | |
| 3 | Rockyview Plastic Materials | |
| 4 | Domestic | |
| 5 | Concrete Segment Builders | |
| 6 | Concrete Segment Builders | |
| 7 | Concrete Box Culverts | |
| 8 | Plastic / Steel Composites | |
| 9 | Glass Reinforced Plastic | |
| 10 | Ductile Iron | |
| 11 | Pyrexined Glass | |
| 12 | Cast Iron | |
| 13 | Steel Iron | |
| 14 | Steel | |
| 15 | Welded Steel | |
| 16 | Polystyrene | |
| 17 | Steel / Plastic | |
| 18 | Masonry, Concrete | |
| 19 | Masonry, Rebar | |

Address or Site Reference:

OS sheet SJ8484NW
 Number:
 Scale: 1:1250 Date: 31/08/2020
 Nodes: 0
 Sheet: 3 of 4

Printed by: Property Searches

SEWER
RECORDS

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