



Environmental

Geotechnical

Highways

Structural

Civil

# Pennylands, Westgate, Skelmersdale

## Proposed Retail Development

### Flood Risk and Surface Water Drainage Assessment.

For: ALDI, Bolton

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Date: Oct 2018

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## 1. **INTRODUCTION**

- 1.1 Integra Consulting has been commissioned by ALDI, Bolton to undertake a Flood Risk and Surface Water Drainage Assessment (FRA) for the site at Pennylands, Westgate, Skelmersdale. This document has been prepared to accompany the detailed planning application for the proposed development of the application site.
- 1.2 The objective of the FRA is to identify potential flooding issues and any consequent implications on the proposed site development. Both existing and proposed surface water drainage for the development site are considered.
- 1.3 The FRA 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'
  - West Lancashire Borough Council Strategic Flood Risk Assessment Level 1 dated 2010
  - West Lancashire Borough Council Strategic Flood Risk Assessment Level 2 dated July 2012
  - 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 Lead Local Flood Authority.

## **2. STANDARDS AND LIMITATIONS**

This report has been prepared solely for use by ALDI Bolton.

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. CURRENT SITUATION**

#### **3.1 Site Location and Description**

The 1.24 hectare irregular shaped site is located to the west of the centre of Skelmersdale, West Lancashire. The site is centred at National Grid reference 346912, 405889 as shown on the site location plan in Appendix 1.

The brownfield site is bounded to the north by High Street, to the west by Westgate, to the east by residential properties and to the south by residential properties and garages. The nearest watercourse to the site is unnamed and lies circa 500m to the south of the site on the far (southern) side of the M58 motorway.

The site falls from circa 70m AOD in the north to circa 65.5m AOD in the south. The existing topographical survey can be found in Appendix 2.

#### **3.2 Hydrology and Flooding**

Current Environment Agency flood data indicates the site to lie wholly in Flood Zone 1.

A review of the EA / DEFRA mapping indicates no reservoir flooding and a localised low risk of surface water flooding adjacent to the southern site boundary with an isolated area indicating a low risk of surface water flooding within a confirmed courtyard to an existing site building (to be demolished).

### **3.3 Existing Sewers**

The existing sewers surrounding the site are noted as follows (refer to Appendix 4 for detailed UU sewer plans):

- 225mm diameter adopted surface water sewer extending south from adjacent to the southern site boundary;
- 225mm (private) highway drain extending from north to south beneath Westgate from a location adjacent to the western site boundary;
- 375mm (private) highway drain extending from north to south beneath Westgate from a location adjacent to the western site boundary;
- 150mm diameter adopted combined water sewer extending from east to west beneath High Street to the north of the development site;
- 225mm diameter adopted combined water sewer extending from west to east from a location adjacent to the eastern site boundary.

## **4. PROPOSED DEVELOPMENT**

### **4.1 Development Proposals**

It is proposed to undertake a retail re-development of the application site with access from High Street.

### **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



Intrusive ground investigation findings validate the desk study evidence and confirm that the site is underlain by low permeability stiff clay (Devensian Till) deposits - on this basis, soakaways and permeable surfaces are deemed unsuitable for this development site.

The nearest watercourse is an unnamed watercourse which is located approximately 500m to the south of the site, on the far (southern) side of the M58 motorway through numerous third party land ownerships. Accordingly, direct discharge of post-development surface water to watercourse is not considered viable.

An existing topographical and drainage survey at the site (refer to Appendix 2) indicates that site surface water currently discharges freely into the existing adopted sewer system that lies directly to the south of the site. It is therefore proposed to re-use this existing sewer connection in the post-development situation and provide a significant betterment through a 50% reduction in existing flows in line with the requirements of the West Lancashire Borough Council Level 2 SFRA dated July 2012.

The proposed 50% reduction in flow results in estimated on site storage to cater for a 1 in 30 year event of approximately 165m<sup>3</sup> and on site storage to cater for a 1 in 100 year plus 30% climate change event of approximately 365m<sup>3</sup> (refer to Appendix 6 for estimated 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 + 30% 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 Foul Water Drainage**

An existing topographical and drainage survey at the site (refer to Appendix 2) indicates that site foul water currently discharges into the adopted combined water sewer system that lies adjacent to the site.

It is therefore proposed to re-use these existing sewer connections in the post-development situation.

#### **4.4 National Planning Policy Framework and Technical Guidance**

The commercial 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 is 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

#### **4.5 Strategic Flood Risk Assessment & EA Mapping Review**

From our review of the West Lancashire SFRA Level 1 and Level 2 documents that no critical drainage areas are currently defined in this region. It is however noted that the SFRA documents identify the non-fluvial flood risk in Skelmersdale to be low with drains / culverts being modern in design and capacity.

It is proposed that post-development surface water discharges into the existing adjacent UU sewer network and provides a 50% betterment on flow rate compared with the existing free flow situation in line with the requirements of the SFRA Level 2 document.

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.

#### **4.6 Safe Access and Egress**

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

## **5. CONCLUSIONS**

### **5.1 Flooding**

Following review of the Environment Agency flood maps and data, it has been confirmed that the site lies wholly within 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 + 30% climate change event.

### **5.2 Site Surface Water Drainage**

It is proposed to discharge suitably attenuated post-development surface water into the United Utilities adopted sewer network that lies adjacent to the southern site boundary re-using the existing sewer connection from the site.

It is proposed to provide significant betterment through a reduction in existing flows by 50% and provision of commensurate on site storage.

### **5.3 Site Foul Water Drainage**

An existing topographical and drainage survey at the site (refer to Appendix 2) indicates that site foul water currently discharges into the adopted combined water sewer system that lies adjacent to the site.

It is therefore proposed to re-use these existing sewer connections in the post-development situation.

#### **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% plus 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.

The proposed building envelopes will naturally all lie in Flood Zone 1.

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

**APPENDIX 1**

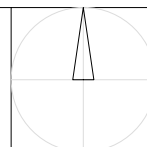
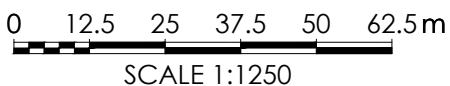
**SITE LOCATION PLAN**



**TOTAL OWNERSHIP AREA (Red Line)  
FOODSTORE PLOT APPROX 3.07 ACRES (1.24 HA)**

This drawing is copyright and may not be reproduced in whole or part without written authority. Do not scale off this drawing.

**SITE LOCATION PLAN  
SCALE 1:1250 @ A4**



Rev	Date	Description	Rev By	Chkd By
-	dd-mm-yy	-----	---	---
Project Title		PROPOSED ALDI FOODSTORE WESTGATE SKELMERSDALE WN8 8AP		
Client		ALDI STORES LTD		
Status		PLANNING		
Scale		1:1250	Drawing Size	A4
Date		06.08.18	Drawn By	RG
			Chkd by	LEEB
Drawing Title		SITE LOCATION PLAN		
Job-Dwg No		2269BOL-110		Rev -

- 2 St. Johns North,  
Wakefield, WF1 3QA  
t. 01924 291800
- Carvers Warehouse, 77 Dale Street,  
Manchester, M1 2HG  
t. 0161 2388555
- The Old Rectory, 79 High Street,  
Newport Pagnell, MK16 8AB  
t. 01908 211577
- 101 London Road,  
Reading, RG1 3BY  
t. 0118 9507700
- 10 Gees Court, St Christophers Place,  
London, W1U 1JJ  
t. 0207 4091215

**APPENDIX 2**

**EXISTING TOPOGRAPHICAL SURVEY**





**APPENDIX 3**

**ENVIRONMENT AGENCY FLOOD MAPPING**

# Flood map for planning

Your reference  
**Skelmersdale**

Location (easting/northing)  
**346920/405878**

Created  
**15 Oct 2018 10:53**

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

## **This means:**

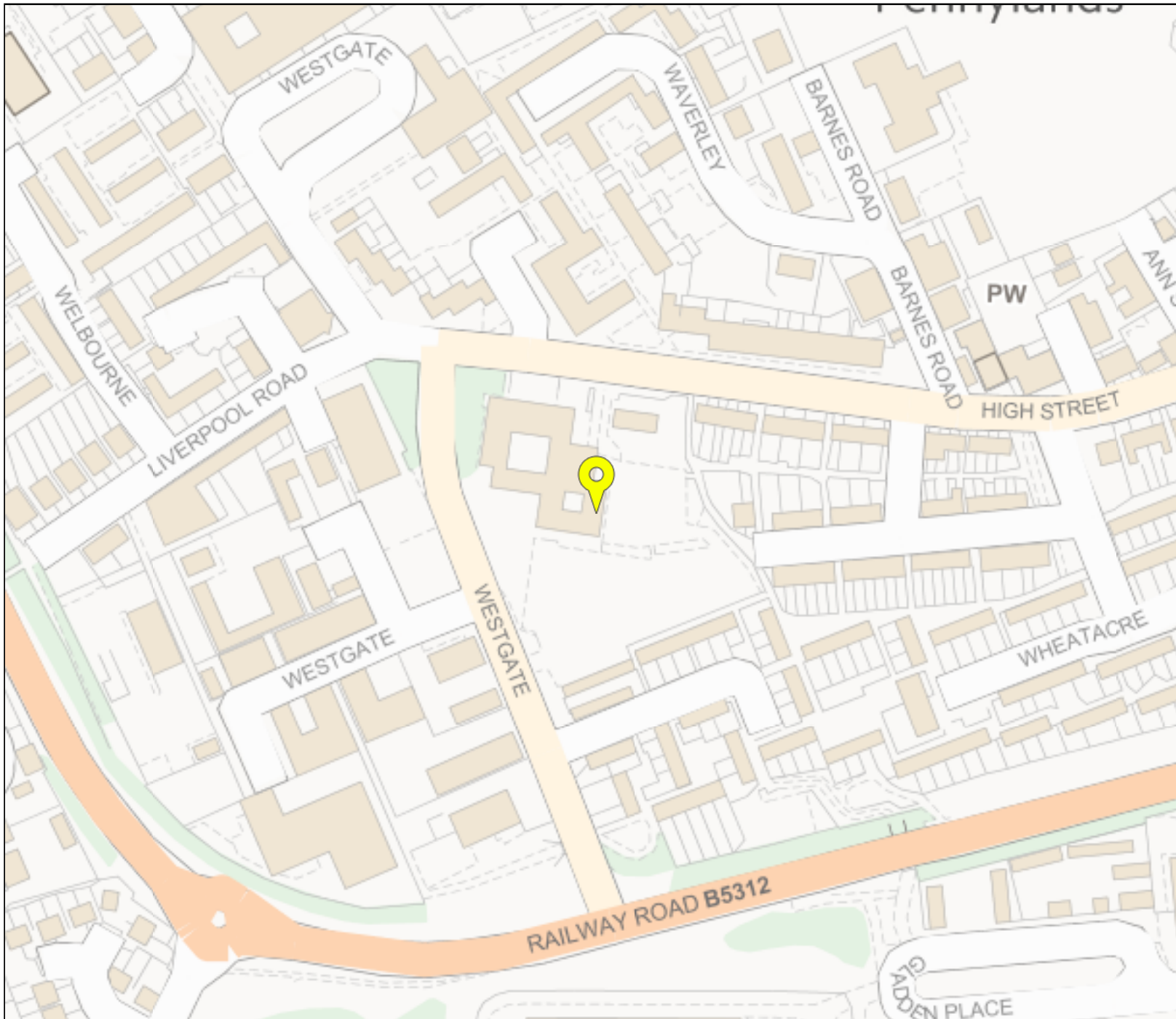
- you don't need to do a flood risk assessment if your development is smaller than 1 hectare and not affected by other sources of flooding
- you may need to do a flood risk assessment if your development is larger than 1 hectare or affected by other sources of flooding or in an area with critical drainage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

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











### Flood map for planning

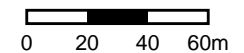
Your reference  
**Skelmersdale**

Location (easting/northing)  
**346920/405878**

Scale  
**1:2500**

Created  
**15 Oct 2018 10:53**

-  Selected point
-  Flood zone 3
-  Flood zone 3: areas benefiting from flood defences
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Flood storage area



**APPENDIX 4**

**UNITED UTILITIES SEWER PLAN**



**Integra Consulting Engineers Ltd  
Suite 4  
14 - 32 Hewitt Street**

**Manchester  
M15 4GB**

**FAO:**

Dear Sirs

**Location: Westgate High Street Skelmersdale**

I acknowledge with thanks your request dated 08/10/18 for information on the location of our services.

Please find enclosed plans showing the approximate position of our 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 our 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 you requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please telephone us on 0370 7510101.

Yours Faithfully,

Karen McCormack  
Property Searches Manager

**United Utilities Water Limited**

Property Searches  
Ground Floor Grasmere House  
Lingley Mere Business Park  
Great Sankey  
Warrington  
WA5 3LP

Telephone 0370 751 0101

[Property.searches@uuplc.co.uk](mailto:Property.searches@uuplc.co.uk)

Your Ref: 3019  
Our Ref: 1392519  
Date: 8/10/2018

## TERMS AND CONDITIONS - WASTERWATER & WATER DISTRIBUTION PLANS

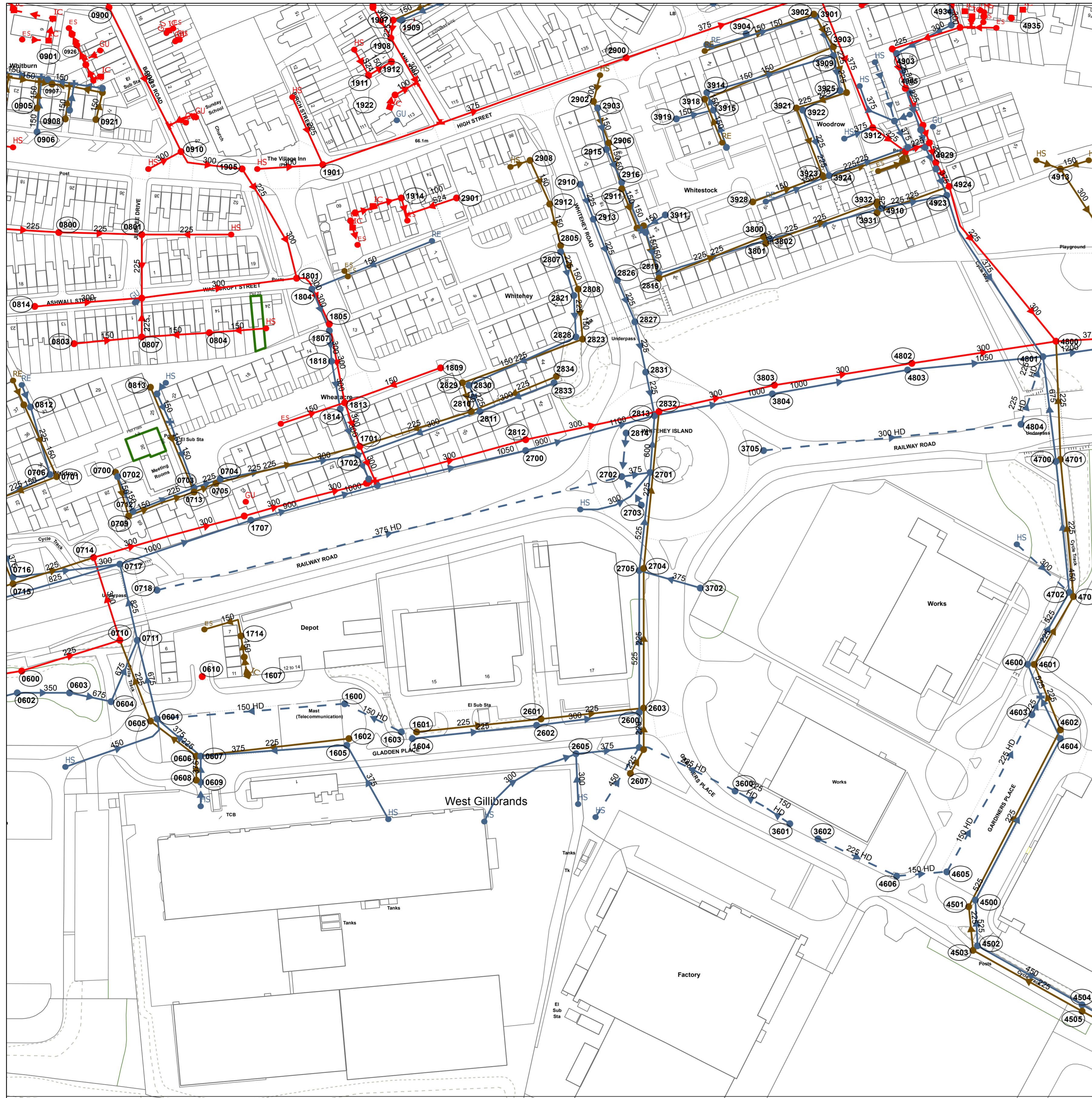
These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self-construction of water mains) (UUWL apparatus)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

### **TERMS AND CONDITIONS:**

1. 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.
2. 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.
3. In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only and given in accordance with the best information available. The nature of the relevant system and/or its actual position may be different from that shown on the plan and UUWL is not liable for any damage caused by incorrect information provided save as stated in section 199 of the Water Industry Act 1991. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.

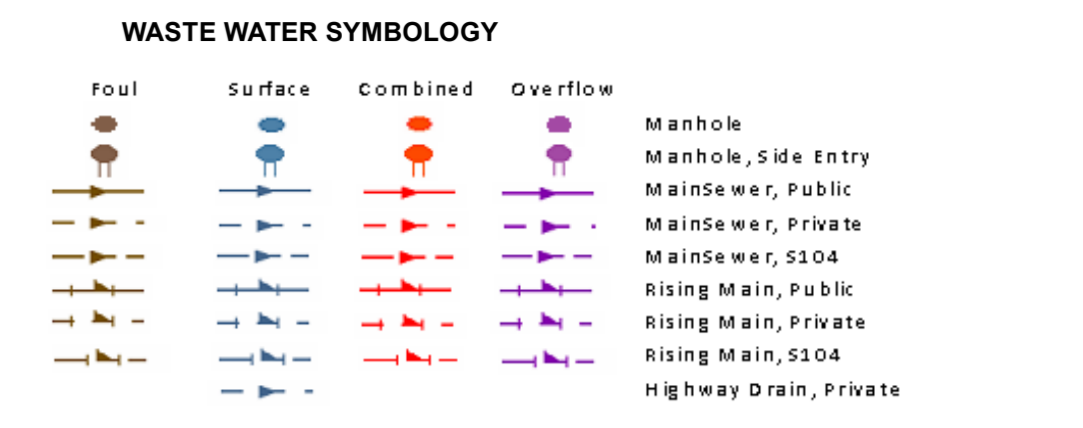






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1003	63.1	SW	60.97	150	CI	VC	29.07	112	4032	59.59	SW	58.79	375	CI	CO	8	10		
1004	63.1	SW	60.97	150	CI	VC	29.07	112	4033	59.59	SW	58.79	375	CI	CO	8	10		
1005	62.87	SW	61.36	225	CI	VC	57.31	117	4034	60.72	CO	59.93	300	CI	CO	8.25	4		
1007	63.1	FO	61.42	300	CI	VC	17.46		4035	60.72	CO	59.93	300	CI	CO	8.25	4		
1008	63.1	FO	61.42	300	CI	VC	17.46		4036	60.72	CO	59.93	300	CI	CO	8.25	4		
1009	63.1	FO	61.42	300	CI	VC	17.46		4037	60.72	CO	59.93	300	CI	CO	8.25	4		
1010	63.1	FO	61.42	300	CI	VC	17.46		4038	60.72	CO	59.93	300	CI	CO	8.25	4		
1011	63.1	FO	61.42	300	CI	VC	17.46		4039	60.72	CO	59.93	300	CI	CO	8.25	4		
1012	63.1	FO	61.42	300	CI	VC	17.46		4040	60.72	CO	59.93	300	CI	CO	8.25	4		
1013	63.1	FO	61.42	300	CI	VC	17.46		4041	60.72	CO	59.93	300	CI	CO	8.25	4		
1014	63.1	FO	61.42	300	CI	VC	17.46		4042	60.72	CO	59.93	300	CI	CO	8.25	4		
1015	63.1	FO	61.42	300	CI	VC	17.46		4043	60.72	CO	59.93	300	CI	CO	8.25	4		
1016	63.1	FO	61.42	300	CI	VC	17.46		4044	60.72	CO	59.93	300	CI	CO	8.25	4		
1017	63.1	FO	61.42	300	CI	VC	17.46		4045	60.72	CO	59.93	300	CI	CO	8.25	4		
1018	63.1	FO	61.42	300	CI	VC	17.46		4046	60.72	CO	59.93	300	CI	CO	8.25	4		
1019	63.1	FO	61.42	300	CI	VC	17.46		4047	60.72	CO	59.93	300	CI	CO	8.25	4		
1020	63.1	FO	61.42	300	CI	VC	17.46		4048	60.72	CO	59.93	300	CI	CO	8.25	4		
1021	63.1	FO	61.42	300	CI	VC	17.46		4049	60.72	CO	59.93	300	CI	CO	8.25	4		
1022	63.1	FO	61.42	300	CI	VC	17.46		4050	60.72	CO	59.93	300	CI	CO	8.25	4		
1023	63.1	FO	61.42	300	CI	VC	17.46		4051	60.72	CO	59.93	300	CI	CO	8.25	4		
1024	63.1	FO	61.42	300	CI	VC	17.46		4052	60.72	CO	59.93	300	CI	CO	8.25	4		
1025	63.1	FO	61.42	300	CI	VC	17.46		4053	60.72	CO	59.93	300	CI	CO	8.25	4		
1026	63.1	FO	61.42	300	CI	VC	17.46		4054	60.72	CO	59.93	300	CI	CO	8.25			

Reho	Cover	Func	Invert	Size	Size	yShape	Mail	Length	Grad	Reho	Cover	Func	Invert	Size	Size	yShape	Mail	Length	Grad	
5517		FO																		
5519		SW																		
5604		CO	66.82	225		CI	VC	4.47	12											
5615		SW																		
5616		SW	100			CI	VC	49.45												
5622		FO																		
5629		SW	100			CI	VC	1.6												
5633		FO																		
5636		CO																		
5805		CO																		
5808		CO																		
5810		CO																		
6513		SW																		
6514		SW	64.34	375		CI	CO	31.76	64											
6520		FO																		
6616		FO																		
6629		SW																		
6634		FO																		
6702		SW	63.24	350		CI	CO	50.12	167											
6805		CO																		
6806		CO	225			CI	VC	24.44												
6811		FO																		
6924		FO																		
6925		FO																		
6934		FO																		
7209		FO	100			CI	VC	26.29												
7218		SW																		
7219		SW																		
7706		FO	100			CI	VC	1.04												
7801		SW																		
7805		FO																		
7813		FO																		
7818		CO	100			CI	VC	2.75												
7819		CO																		
7820		CO																		
7821		CO																		
7824		FO																		
7825		FO																		
7827		FO																		
7909		SW																		
7917		FO																		
7918		FO																		
7919		FO																		
7921		FO	150			CI	VC	1.74												
7923		FO																		
7927		FO	100			CI	VC	2.59												
7929		CO																		
8802		SW	64.36	375		CI	CO	8.54	23											
8806		FO																		
8820		FO																		
8821		FO																		
8920		SW	68.84	150		CI	VC	1	100											
8921		SW	0	300		CI	VC	3												
8922		FO	67.02	225		CI	VC	11.4	76											
8924		FO																		
8926		SW																		
8928		SW	0	150		CI	VC	11.7												
9730		FO	82.06	225		CI	VC	8.54	37											
9731		SW	60.21	300		CI	CO	15.65	24											
9732		SW																		
9733		FO																		
9921		SW																		
5511		FO																		
5520		SW	100			CI	VC	10.25												
5613		CO																		
5617		SW																		
5618		SW																		
5621		SW																		
5626		CO																		
5627		SW																		
5628		SW																		
5634		SW																		
5636		CO																		
5708		CO																		
5807		SW																		
5809		CO																		
5812		FO																		
6615		FO																		
6637		FO																		
6806		CO																		
6809		CO																		
6923		SW																		
7707		FO																		
7822		FO																		
7822		FO																		
8803		FO																		
8817		SW																		
8818		FO																		
8914		SW																		
8915		SW																		
8916		FO																		
8917		FO																		
8918		CO																		
9726		SW	0	150		CI	VC	5.39												
9727		SW																		
9915		FO																		
9916		SW	0	150		CI	VC	12.37												
9917		FO																		
9920		SW																		
5506		CO																		
5510		SW																		
6500		66.88	CO																	
6501		65.99	SW																	
6512		SW																		
6601		66.49	SW																	
6602		66.48	CO																	
6605		CO																		
6616		SW																		
6617		SW																		
6624		SW																		
7604		CO																		
7607		SW																		
7608		SW																		
7609		SW																		



### MANHOLE FUNCTION

FO Foul  
SW Surface Water  
CO Combined  
OV Overflow

### SEWER SHAPE

CI Circular      TR Trapezoidal  
EG Egg            AR Arch  
OV Oval          BA Barrel  
FT Flat Top      HO HorseShoe  
RE Rectangular   UN Unspecified  
SQ Square

### SEWER MATERIAL

AC Asbestos Cement                      DI Ductile Iron  
BR Brick                                      PVC Polyvinyl Chloride  
PE Polyethylene                            CI Cast Iron  
RP Reinforced Plastic Matrix            SI Spun Iron  
CO Concrete                                ST Steel  
CSB Concrete Segment Bolted          VC Vitrified Clay  
CSU Concrete Segment Unbolted        PP Polypropylene  
CC Concrete Box Culvert                PF Pitch Fibre  
PSC Plastic/Steel Composite            MAC Masonry, Coursed  
GRC Glass Reinforced Concrete        MAR Masonry, Random  
GRP Glass Reinforced Plastic            U Unspecified

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. Crown copyright and database rights [2016] Ordnance Survey 100022432.

OS Sheet No: SD4605NE  
Scale: 1:1250    Date: 08/10/2018  
415 Nodes  
Sheet 2 of 2

OS Sheet No: SD4605NE



Ratno	Cover	Func	Invert	Size	Shape	Matl	Length	Grad	Ratno	Cover	Func	Invert	Size	Shape	Matl	Length	Grad
5500	68.18	SW	0	300	CI	VC 25.56		8	7508	65.65	FO						
5501	68.2	CO	65.55	225	CI	VC 4.97			7510		FO						
5502	68.24	FO							7511		FO						
5503	67.97	FO	64.89	225	CI	VC 34.59		192	7512		FO	100	CI	VC 13.25			
5504	66.88	SW							7514		FO						
5505	67.35	SW	64.6	225	CI	VC 31.01			7515		CO						
5507	67.35	FO							7600	66.79	CO	62.89	225	CI	VC 20.88	261	
5508	67.06	FO	64.08	225	CI	VC 28.75		60	7601	67.73	SW	0	375	CI	VC 69.75		
5509	67.06	FO							7602	66.79	FO						
5518	68.5	SW	66.28	225	CI	VC 30.36		276	7603		FO	100	CI	PVC 12.02			
5600	68.5	CO							7604		FO						
5601	68	SW							7605	66.8	SW	63.48	750	CI	VC 17.08	155	
5602	67.98	CO							7610	66.39	SW	63.53	750	CI	VC 33.73	422	
5603	68.03	CO							7611	66.84	FO						
5605	68.03	SW							7612		FO						
5606	68	SW	0	375	CI	VC 33.34			7700	67.03	SW						
5608	68	SW	0	150	CI	VC 71.48			7701	66.69	SW	65.31	225	CI	VC 35.47	114	
5609	68	FO							7702	66.71	FO	64.98	225	CI	VC 33.24	128	
5610	68	FO							7704		FO	225	CI	VC 23.19			
5611	68	FO							7705		FO						
5612	68	FO							7802	68.64	FO						
5614	68	FO	150	CI	VC 11.89				7803	68.43	SW	64.88	150	CI	VC 14.32	159	
5620	68	SW	150	CI	VC 10.5				7804	67.79	SW	64.41	150	CI	VC 13	100	
5624	68	CO							7806	67.76	FO						
5625	68	CO							7807		FO						
5630	68	CO	150	CI	VC 9.68				7808	66.32	SW	64.88	150	CI	VC 14.32	159	
5632	68	SW	150	CI	VC 10.75				7810	66.7	FO	64.37	450	CI	VC 31.78		
5636	68	SW	150	CI	VC 24.04				7811	66.06	SW						
5637	68	CO	100	CI	VC 21.02				7812		CO						
5638	68	CO	100	CI	VC 21.02				7815		CO						
5700	69.73	SW	67.87	300	CI	VC 45.88		21	7816		FO	150	CI	VC 13.38			
5701	69.92	SW							7823		FO	100	CI	VC 27.98			
5702	69.46	CO	48.03	150	CI	VC 12.81		1	7900	70.17	SW	68.41	225	CI	VC 32.8		
5703	68.77	CO	66.67	225	CI	VC 22		59	7901	69.73	FO	67.11	150	CI	VC 39.36	136	
5704	68.97	CO							7902	68.94	FO						
5706	68	CO	100	CI	VC 2.88				7903	69.12	FO						
5800	70.26	SW	100	CI	VC 11.87				7904	69.2	CO	67.69	225	CI	VC 30.35	117	
5801	68	SW	100	CI	VC 28.59				7905	68.76	SW	66.97	1050	CI	VC 25.18	133	
5802	68	CO	100	CI	VC 28.59				7907	69.19	SW	66.78	225	CI	VC 2.61	24	
5803	68	CO	100	CI	VC 28.59				7908	69.64	SW	67.66	150	CI	VC 11.66	51	
5804	68	CO	100	CI	VC 28.59				7910		FO	100	CI	VC 14.36			
5900	65.3	SW							7911		FO	100	CI	VC 9.9			
5901	65.4	SW	64.49	225	CI	VC 14.98		18	7912		FO						
5902	65.54	SW	63.68	675	CI	VC 39.21		261	7913		FO						
5903	65.49	SW	63.77	675	CI	VC 39.21		261	7914		FO	150	CI	VC 7.76			
5904	65.65	SW	63.77	675	CI	VC 39.21		261	7915		FO						
5905	65.48	SW	63.77	675	CI	VC 39.21		261	7916		FO	100	CI	VC 4.79			
5906	65.48	SW	63.77	675	CI	VC 39.21		261	7925		FO	100	CI	VC 12.14			
5907	65.53	FO	64.91	150	CI	VC 13.73		12	7926		FO						
5908	65.49	FO	63.92	225	CI	VC 25.24		294	7926		FO						
5909	65.63	FO	64.92	150	CI	VC 27.68		24	7926		FO						
5910	65.45	FO	65.09	150	CI	VC 27.68		24	8000	65.23	CO						
5911	65.45	FO	65.09	150	CI	VC 27.68		24	8002	65.05	CO	62.81	225	CI	VC 44.41	148	
5912	65.45	FO	65.09	150	CI	VC 27.68		24	8003	65.18	SW	61.91	375	CI	VC 80.31	136	
5913	65.45	FO	65.09	150	CI	VC 27.68		24	8004	65.43	SW	62.72	225	CI	VC 13	144	
5914	65.45	FO	65.09	150	CI	VC 27.68		24	8005	65.24	CO	63.83	225	CI	VC 73.01	162	
5915	65.45	FO	65.09	150	CI	VC 27.68		24	8006	65.85	SW						
5916	65.45	FO	65.09	150	CI	VC 27.68		24	8007	65.85	SW						
5917	65.45	FO	65.09	150	CI	VC 27.68		24	8008	65.85	SW						
5918	65.45	FO	65.09	150	CI	VC 27.68		24	8009	65.85	SW						
5919	65.45	FO	65.09	150	CI	VC 27.68		24	8010	65.85	SW						
5920	65.45	FO	65.09	150	CI	VC 27.68		24	8011	65.85	SW						
5921	65.45	FO	65.09	150	CI	VC 27.68		24	8012	65.85	SW						
5922	65.45	FO	65.09	150	CI	VC 27.68		24	8013	65.85	SW						
5923	65.45	FO	65.09	150	CI	VC 27.68		24	8014	65.85	SW						
5924	65.45	FO	65.09	150	CI	VC 27.68		24	8015	65.85	SW						
5925	65.45	FO	65.09	150	CI	VC 27.68		24	8016	65.85	SW						
5926	65.45	FO	65.09	150	CI	VC 27.68		24	8017	65.85	SW						
5927	65.45	FO	65.09	150	CI	VC 27.68		24	8018	65.85	SW						
5928	65.45	FO	65.09	150	CI	VC 27.68		24	8019	65.85	SW						
5929	65.45	FO	65.09	150	CI	VC 27.68		24	8020	65.85	SW						
5930	65.45	FO	65.09	150	CI	VC 27.68		24	8021	65.85	SW						
5931	65.45	FO	65.09	150	CI	VC 27.68		24	8022	65.85	SW						
5932	65.45	FO	65.09	150	CI	VC 27.68		24	8023	65.85	SW						
5933	65.45	FO	65.09	150	CI	VC 27.68		24	8024	65.85	SW						
5934	65.45	FO	65.09	150	CI	VC 27.68		24	8025	65.85	SW						
5935	65.45	FO	65.09	150	CI	VC 27.68		24	8026	65.85	SW						
5936	65.45	FO	65.09	150	CI	VC 27.68		24	8027	65.85	SW						
5937	65.45	FO	65.09	150	CI	VC 27.68		24	8028	65.85	SW						
5938	65.45	FO	65.09	150	CI	VC 27.68		24	8029	65.85	SW						
5939	65.45	FO	65.09	150	CI	VC 27.68		24	8030	65.85	SW						
5940	65.45	FO	65.09	150	CI	VC 27.68		24	8031	65.85	SW						
5941	65.45	FO	65.09	150	CI	VC 27.68		24	8032	65.85	SW						
5942	65.45	FO	65.09	150	CI	VC 27.68		24	8033	65.85	SW						
5943	65.45	FO	65.09	150	CI	VC 27.68		24	8034	65.85	SW						
5944	65.45	FO	65.09	150	CI	VC 27.68		24	8035	65.85	SW						
5945	65.45	FO	65.09	150	CI	VC 27.68		24	8036	65.85	SW						
5946	65.45	FO															

**APPENDIX 5**

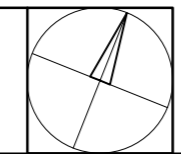
**PROPOSED SITE MASTERPLAN**



**TOTAL OWNERSHIP AREA (Red Line)**  
**FOODSTORE PLOT APPROX 3.07 ACRES (1.24 HA)**

Existing trees retained  
 Trees to be removed

PROPOSED SITE PLAN  
 SCALE 1:250 @ A1  
 SCALE 1:250  
 CAD file reference: J:/ALDI/MIDDLETON/2269BOL/17.0 DRAWINGS/100 SERIES



Rev	Date	Description	Rev By	Chk'd By
C	06.12.18	Tree survey comments included within scheme, car parking amended to suit retained trees.	CM	LEEB
B	17.10.18	Disabled spaces and motorcycle spaces increased, trucking included and tree survey shown	CM	LEEB
A	28.09.18	Landscaping proposals included	CM	LEEB

Project Title	PROPOSED ALDI FOODSTORE		
Client	ALDI STORES LTD		
Status	PLANNING		
Scale	1:250	Drawing Size	A1
Date	06.08.18	Drawn By	RG
		Checked	LEEB
Drawing Title	PROPOSED SITE PLAN		
Job-Dwg No	2269BOL-112	Rev	C

<ul style="list-style-type: none"> <li>2 St. Johns North, Wakefield, W11 3QA t. 01924 291800</li> <li>Carvers Warehouse, 77 Dale Street, Manchester, M1 2HG t. 0161 2388555</li> <li>The Old Rectory, 79 High Street, Newport Pagnell, MK16 8AB t. 01908 211377</li> <li>101 London Road, Reading, RG1 58Y t. 0118 9507700</li> <li>10 Gees Court, St Christophers Place, London, W11J 1JJ t. 0207 4091215</li> </ul>	 
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## **APPENDIX 6**

### **SURFACE WATER STORAGE CALCULATION ESTIMATES**

**Job Title Aldi, Skelmersdale**

**Storm Water Flood Model**

**M5-60 = 20                      r = 0.4                      Return, T = 30                      Area (m<sup>2</sup>) = 11000**  
**CC Factor = 0                      Limit (l/s) = 60**  
**Totals                                      164                                      164**

D (mins)	M5-D (mm)	MT-D (mm)	Rate (mm/hr)	Flow (l/s)	CC Flow (l/s)	Storage (m <sup>3</sup> )	CC Storage (m <sup>3</sup> )
10.00	10.59	15.86	95.16	288.89	288.89	137.34	137.34
15.00	12.59	19.01	76.03	230.84	230.84	153.76	153.76
20.00	14.06	21.35	64.06	194.47	194.47	161.37	161.37
25.00	15.22	23.21	55.70	169.11	169.11	163.66	163.66
30.00	16.18	24.75	49.50	150.28	150.28	162.50	162.50
35.00	17.01	26.07	44.69	135.68	135.68	158.92	158.92
40.00	17.73	27.22	40.84	123.98	123.98	153.56	153.56
45.00	18.38	28.25	37.67	114.37	114.37	146.81	146.81
50.00	18.97	29.18	35.02	106.32	106.32	138.97	138.97
55.00	19.50	30.03	32.76	99.46	99.46	130.23	130.23
60.00	20.00	30.81	30.81	93.54	93.54	120.75	120.75
65.00	20.46	31.53	29.11	88.37	88.37	110.65	110.65
70.00	20.89	32.21	27.61	83.81	83.81	100.00	100.00
75.00	21.30	32.84	26.27	79.75	79.75	88.89	88.89
80.00	21.68	33.43	25.07	76.12	76.12	77.38	77.38
85.00	22.05	33.99	23.99	72.84	72.84	65.50	65.50
90.00	22.39	34.52	23.01	69.87	69.87	53.30	53.30
95.00	22.72	35.02	22.12	67.16	67.16	40.81	40.81
100.00	23.04	35.51	21.30	64.68	64.68	28.06	28.06
105.00	23.34	35.96	20.55	62.39	62.39	15.08	15.08
110.00	23.63	36.40	19.86	60.28	60.28	1.88	1.88
115.00	23.92	36.82	19.21	58.33	58.33	-11.52	-11.52
120.00	24.19	37.23	18.61	56.51	56.51	-25.10	-25.10
125.00	24.45	37.62	18.06	54.82	54.82	-38.84	-38.84
130.00	24.70	37.99	17.54	53.24	53.24	-52.74	-52.74
135.00	24.95	38.36	17.05	51.76	51.76	-66.78	-66.78
140.00	25.18	38.71	16.59	50.36	50.36	-80.96	-80.96
145.00	25.41	39.04	16.16	49.05	49.05	-95.26	-95.26
150.00	25.64	39.37	15.75	47.81	47.81	-109.68	-109.68
155.00	25.86	39.69	15.36	46.64	46.64	-124.21	-124.21
160.00	26.07	40.00	15.00	45.54	45.54	-138.84	-138.84
165.00	26.28	40.30	14.65	44.49	44.49	-153.57	-153.57
170.00	26.48	40.59	14.33	43.49	43.49	-168.39	-168.39
175.00	26.68	40.87	14.01	42.54	42.54	-183.30	-183.30
180.00	26.87	41.15	13.72	41.64	41.64	-198.29	-198.29
185.00	27.06	41.41	13.43	40.78	40.78	-213.36	-213.36
190.00	27.24	41.68	13.16	39.96	39.96	-228.50	-228.50
195.00	27.43	41.93	12.90	39.17	39.17	-243.71	-243.71
200.00	27.60	42.18	12.65	38.42	38.42	-258.99	-258.99

205.00	27.78	42.42	12.42	37.70	37.70	-274.34	-274.34
210.00	27.95	42.66	12.19	37.00	37.00	-289.75	-289.75
215.00	28.11	42.89	11.97	36.34	36.34	-305.21	-305.21
220.00	28.28	43.12	11.76	35.70	35.70	-320.73	-320.73
225.00	28.44	43.34	11.56	35.09	35.09	-336.31	-336.31
230.00	28.60	43.56	11.36	34.50	34.50	-351.93	-351.93
235.00	28.75	43.77	11.18	33.93	33.93	-367.61	-367.61
240.00	28.91	43.98	10.99	33.38	33.38	-383.33	-383.33
245.00	29.06	44.18	10.82	32.85	32.85	-399.10	-399.10
250.00	29.20	44.38	10.65	32.34	32.34	-414.91	-414.91
255.00	29.35	44.58	10.49	31.85	31.85	-430.77	-430.77
260.00	29.49	44.77	10.33	31.37	31.37	-446.66	-446.66
265.00	29.63	44.96	10.18	30.91	30.91	-462.60	-462.60
270.00	29.77	45.15	10.03	30.46	30.46	-478.57	-478.57
275.00	29.91	45.33	9.89	30.03	30.03	-494.58	-494.58
280.00	30.05	45.51	9.75	29.61	29.61	-510.63	-510.63
285.00	30.18	45.68	9.62	29.20	29.20	-526.71	-526.71
290.00	30.31	45.86	9.49	28.80	28.80	-542.82	-542.82
295.00	30.44	46.02	9.36	28.42	28.42	-558.97	-558.97
300.00	30.57	46.19	9.24	28.05	28.05	-575.14	-575.14
305.00	30.69	46.36	9.12	27.69	27.69	-591.35	-591.35
310.00	30.82	46.52	9.00	27.33	27.33	-607.59	-607.59
315.00	30.94	46.68	8.89	26.99	26.99	-623.85	-623.85
320.00	31.06	46.93	8.80	26.72	26.72	-639.03	-639.03
325.00	31.18	47.10	8.70	26.40	26.40	-655.22	-655.22
330.00	31.30	47.26	8.59	26.09	26.09	-671.42	-671.42
335.00	31.42	47.43	8.49	25.79	25.79	-687.66	-687.66
340.00	31.53	47.59	8.40	25.49	25.49	-703.91	-703.91
345.00	31.65	47.74	8.30	25.21	25.21	-720.18	-720.18
350.00	31.76	47.90	8.21	24.93	24.93	-736.48	-736.48
355.00	31.87	48.05	8.12	24.66	24.66	-752.79	-752.79
360.00	31.98	48.21	8.03	24.39	24.39	-769.13	-769.13
365.00	32.09	48.36	7.95	24.13	24.13	-785.48	-785.48
370.00	32.20	48.51	7.87	23.88	23.88	-801.85	-801.85
375.00	32.31	48.65	7.78	23.63	23.63	-818.24	-818.24
380.00	32.42	48.80	7.71	23.39	23.39	-834.65	-834.65
385.00	32.52	48.94	7.63	23.16	23.16	-851.07	-851.07
390.00	32.62	49.09	7.55	22.93	22.93	-867.52	-867.52
395.00	32.73	49.23	7.48	22.70	22.70	-883.97	-883.97
400.00	32.83	49.37	7.40	22.48	22.48	-900.45	-900.45
405.00	32.93	49.50	7.33	22.27	22.27	-916.94	-916.94
410.00	33.03	49.64	7.26	22.06	22.06	-933.44	-933.44
415.00	33.13	49.78	7.20	21.85	21.85	-949.96	-949.96
420.00	33.23	49.91	7.13	21.65	21.65	-966.50	-966.50
425.00	33.32	50.04	7.06	21.45	21.45	-983.05	-983.05
430.00	33.42	50.17	7.00	21.26	21.26	-999.61	-999.61
435.00	33.51	50.31	6.94	21.07	21.07	-1016.19	-1016.19
440.00	33.61	50.43	6.88	20.88	20.88	-1032.78	-1032.78
445.00	33.70	50.56	6.82	20.70	20.70	-1049.38	-1049.38
450.00	33.80	50.69	6.76	20.52	20.52	-1066.00	-1066.00



455.00	33.89	50.81	6.70	20.34	20.34	-1082.62	-1082.62
460.00	33.98	50.94	6.64	20.17	20.17	-1099.27	-1099.27
465.00	34.07	51.06	6.59	20.00	20.00	-1115.92	-1115.92
470.00	34.16	51.18	6.53	19.84	19.84	-1132.58	-1132.58
475.00	34.25	51.30	6.48	19.68	19.68	-1149.26	-1149.26
480.00	34.34	51.42	6.43	19.52	19.52	-1165.95	-1165.95
485.00	34.42	51.54	6.38	19.36	19.36	-1182.65	-1182.65
490.00	34.51	51.66	6.33	19.21	19.21	-1199.36	-1199.36
495.00	34.60	51.78	6.28	19.05	19.05	-1216.08	-1216.08
500.00	34.68	51.89	6.23	18.91	18.91	-1232.81	-1232.81
505.00	34.77	52.01	6.18	18.76	18.76	-1249.55	-1249.55
510.00	34.85	52.12	6.13	18.62	18.62	-1266.31	-1266.31
515.00	34.93	52.24	6.09	18.48	18.48	-1283.07	-1283.07
520.00	35.02	52.35	6.04	18.34	18.34	-1299.84	-1299.84
525.00	35.10	52.46	6.00	18.20	18.20	-1316.62	-1316.62
530.00	35.18	52.57	5.95	18.07	18.07	-1333.41	-1333.41
535.00	35.26	52.68	5.91	17.94	17.94	-1350.21	-1350.21
540.00	35.34	52.79	5.87	17.81	17.81	-1367.02	-1367.02
545.00	35.42	52.90	5.82	17.68	17.68	-1383.84	-1383.84
550.00	35.50	53.01	5.78	17.56	17.56	-1400.67	-1400.67
555.00	35.58	53.11	5.74	17.43	17.43	-1417.51	-1417.51
560.00	35.66	53.22	5.70	17.31	17.31	-1434.35	-1434.35
565.00	35.74	53.32	5.66	17.19	17.19	-1451.21	-1451.21
570.00	35.81	53.43	5.62	17.07	17.07	-1468.07	-1468.07
575.00	35.89	53.53	5.59	16.96	16.96	-1484.94	-1484.94
580.00	35.97	53.63	5.55	16.84	16.84	-1501.82	-1501.82
585.00	36.04	53.73	5.51	16.73	16.73	-1518.70	-1518.70
590.00	36.12	53.84	5.47	16.62	16.62	-1535.60	-1535.60
595.00	36.19	53.94	5.44	16.51	16.51	-1552.50	-1552.50
600.00	36.27	54.04	5.40	16.41	16.41	-1569.41	-1569.41
605.00	36.34	54.14	5.37	16.30	16.30	-1586.32	-1586.32
610.00	36.41	54.23	5.33	16.20	16.20	-1603.25	-1603.25
615.00	36.48	54.33	5.30	16.09	16.09	-1620.18	-1620.18
620.00	36.56	54.43	5.27	15.99	15.99	-1637.12	-1637.12
625.00	36.63	54.53	5.23	15.89	15.89	-1654.06	-1654.06
630.00	36.70	54.62	5.20	15.79	15.79	-1671.01	-1671.01
635.00	36.77	54.72	5.17	15.70	15.70	-1687.97	-1687.97
640.00	36.84	54.81	5.14	15.60	15.60	-1704.94	-1704.94
645.00	36.91	54.91	5.11	15.51	15.51	-1721.91	-1721.91
650.00	36.98	55.00	5.08	15.41	15.41	-1738.89	-1738.89
655.00	37.05	55.09	5.05	15.32	15.32	-1755.87	-1755.87
660.00	37.12	55.18	5.02	15.23	15.23	-1772.86	-1772.86
665.00	37.19	55.28	4.99	15.14	15.14	-1789.86	-1789.86
670.00	37.26	55.37	4.96	15.05	15.05	-1806.87	-1806.87
675.00	37.32	55.46	4.93	14.97	14.97	-1823.88	-1823.88
680.00	37.39	55.55	4.90	14.88	14.88	-1840.89	-1840.89
685.00	37.46	55.64	4.87	14.80	14.80	-1857.91	-1857.91
690.00	37.52	55.73	4.85	14.71	14.71	-1874.94	-1874.94
695.00	37.59	55.81	4.82	14.63	14.63	-1891.98	-1891.98
700.00	37.66	55.90	4.79	14.55	14.55	-1909.01	-1909.01

705.00	37.72	55.99	4.77	14.47	14.47	-1926.06	-1926.06
710.00	37.79	56.08	4.74	14.39	14.39	-1943.11	-1943.11
715.00	37.85	56.16	4.71	14.31	14.31	-1960.17	-1960.17
720.00	37.91	56.25	4.69	14.23	14.23	-1977.23	-1977.23
725.00	37.98	56.33	4.66	14.15	14.15	-1994.29	-1994.29
730.00	38.04	56.42	4.64	14.08	14.08	-2011.36	-2011.36
735.00	38.11	56.50	4.61	14.00	14.00	-2028.44	-2028.44
740.00	38.17	56.59	4.59	13.93	13.93	-2045.52	-2045.52
745.00	38.23	56.67	4.56	13.86	13.86	-2062.61	-2062.61
750.00	38.29	56.75	4.54	13.78	13.78	-2079.70	-2079.70
755.00	38.36	56.84	4.52	13.71	13.71	-2096.80	-2096.80
760.00	38.42	56.92	4.49	13.64	13.64	-2113.90	-2113.90
765.00	38.48	57.00	4.47	13.57	13.57	-2131.01	-2131.01
770.00	38.54	57.08	4.45	13.50	13.50	-2148.12	-2148.12
775.00	38.60	57.16	4.43	13.44	13.44	-2165.24	-2165.24
780.00	38.66	57.24	4.40	13.37	13.37	-2182.36	-2182.36
785.00	38.72	57.32	4.38	13.30	13.30	-2199.48	-2199.48
790.00	38.78	57.40	4.36	13.24	13.24	-2216.61	-2216.61
795.00	38.84	57.48	4.34	13.17	13.17	-2233.75	-2233.75
800.00	38.90	57.56	4.32	13.11	13.11	-2250.89	-2250.89
805.00	38.96	57.64	4.30	13.04	13.04	-2268.03	-2268.03
810.00	39.02	57.72	4.28	12.98	12.98	-2285.18	-2285.18
815.00	39.08	57.79	4.25	12.92	12.92	-2302.33	-2302.33
820.00	39.13	57.87	4.23	12.86	12.86	-2319.49	-2319.49
825.00	39.19	57.95	4.21	12.79	12.79	-2336.65	-2336.65
830.00	39.25	58.02	4.19	12.73	12.73	-2353.81	-2353.81
835.00	39.31	58.10	4.17	12.68	12.68	-2370.98	-2370.98
840.00	39.36	58.18	4.16	12.62	12.62	-2388.15	-2388.15
845.00	39.42	58.25	4.14	12.56	12.56	-2405.33	-2405.33
850.00	39.48	58.33	4.12	12.50	12.50	-2422.51	-2422.51
855.00	39.53	58.40	4.10	12.44	12.44	-2439.70	-2439.70
860.00	39.59	58.48	4.08	12.39	12.39	-2456.89	-2456.89
865.00	39.64	58.55	4.06	12.33	12.33	-2474.08	-2474.08
870.00	39.70	58.62	4.04	12.27	12.27	-2491.28	-2491.28
875.00	39.76	58.70	4.02	12.22	12.22	-2508.48	-2508.48
880.00	39.81	58.77	4.01	12.17	12.17	-2525.68	-2525.68
885.00	39.87	58.84	3.99	12.11	12.11	-2542.89	-2542.89
890.00	39.92	58.91	3.97	12.06	12.06	-2560.10	-2560.10
895.00	39.97	58.99	3.95	12.01	12.01	-2577.31	-2577.31
900.00	40.03	59.06	3.94	11.95	11.95	-2594.53	-2594.53
905.00	40.08	59.13	3.92	11.90	11.90	-2611.75	-2611.75
910.00	40.14	59.20	3.90	11.85	11.85	-2628.98	-2628.98
915.00	40.19	59.27	3.89	11.80	11.80	-2646.21	-2646.21
920.00	40.24	59.34	3.87	11.75	11.75	-2663.44	-2663.44
925.00	40.30	59.41	3.85	11.70	11.70	-2680.68	-2680.68
930.00	40.35	59.48	3.84	11.65	11.65	-2697.92	-2697.92
935.00	40.40	59.55	3.82	11.60	11.60	-2715.16	-2715.16
940.00	40.45	59.62	3.81	11.55	11.55	-2732.41	-2732.41
945.00	40.51	59.69	3.79	11.51	11.51	-2749.66	-2749.66
950.00	40.56	59.75	3.77	11.46	11.46	-2766.91	-2766.91

955.00	40.61	59.82	3.76	11.41	11.41	-2784.16	-2784.16
960.00	40.66	59.89	3.74	11.36	11.36	-2801.42	-2801.42
965.00	40.71	59.96	3.73	11.32	11.32	-2818.68	-2818.68
970.00	40.76	60.03	3.71	11.27	11.27	-2835.95	-2835.95
975.00	40.81	60.09	3.70	11.23	11.23	-2853.22	-2853.22
980.00	40.86	60.16	3.68	11.18	11.18	-2870.49	-2870.49
985.00	40.91	60.23	3.67	11.14	11.14	-2887.76	-2887.76
990.00	40.96	60.29	3.65	11.09	11.09	-2905.04	-2905.04
995.00	41.01	60.36	3.64	11.05	11.05	-2922.32	-2922.32
1000.00	41.06	60.42	3.63	11.01	11.01	-2939.60	-2939.60
1005.00	41.11	60.49	3.61	10.96	10.96	-2956.89	-2956.89
1010.00	41.16	60.55	3.60	10.92	10.92	-2974.18	-2974.18
1015.00	41.21	60.62	3.58	10.88	10.88	-2991.47	-2991.47
1020.00	41.26	60.68	3.57	10.84	10.84	-3008.77	-3008.77
1025.00	41.31	60.75	3.56	10.80	10.80	-3026.07	-3026.07
1030.00	41.36	60.81	3.54	10.75	10.75	-3043.37	-3043.37
1035.00	41.41	60.87	3.53	10.71	10.71	-3060.67	-3060.67
1040.00	41.46	60.94	3.52	10.67	10.67	-3077.98	-3077.98
1045.00	41.50	61.00	3.50	10.63	10.63	-3095.28	-3095.28
1050.00	41.55	61.06	3.49	10.59	10.59	-3112.60	-3112.60
1055.00	41.60	61.13	3.48	10.55	10.55	-3129.91	-3129.91
1060.00	41.65	61.19	3.46	10.52	10.52	-3147.23	-3147.23
1065.00	41.70	61.25	3.45	10.48	10.48	-3164.55	-3164.55
1070.00	41.74	61.31	3.44	10.44	10.44	-3181.87	-3181.87
1075.00	41.79	61.38	3.43	10.40	10.40	-3199.19	-3199.19
1080.00	41.84	61.44	3.41	10.36	10.36	-3216.52	-3216.52
1085.00	41.88	61.50	3.40	10.32	10.32	-3233.85	-3233.85
1090.00	41.93	61.56	3.39	10.29	10.29	-3251.18	-3251.18
1095.00	41.98	61.62	3.38	10.25	10.25	-3268.52	-3268.52
1100.00	42.02	61.68	3.36	10.21	10.21	-3285.85	-3285.85
1105.00	42.07	61.74	3.35	10.18	10.18	-3303.19	-3303.19
1110.00	42.12	61.80	3.34	10.14	10.14	-3320.54	-3320.54
1115.00	42.16	61.86	3.33	10.11	10.11	-3337.88	-3337.88
1120.00	42.21	61.92	3.32	10.07	10.07	-3355.23	-3355.23
1125.00	42.25	61.98	3.31	10.04	10.04	-3372.58	-3372.58
1130.00	42.30	62.04	3.29	10.00	10.00	-3389.93	-3389.93
1135.00	42.34	62.10	3.28	9.97	9.97	-3407.28	-3407.28
1140.00	42.39	62.16	3.27	9.93	9.93	-3424.64	-3424.64
1145.00	42.43	62.22	3.26	9.90	9.90	-3442.00	-3442.00
1150.00	42.48	62.27	3.25	9.86	9.86	-3459.36	-3459.36
1155.00	42.52	62.33	3.24	9.83	9.83	-3476.72	-3476.72
1160.00	42.57	62.39	3.23	9.80	9.80	-3494.09	-3494.09
1165.00	42.61	62.45	3.22	9.76	9.76	-3511.46	-3511.46
1170.00	42.66	62.51	3.21	9.73	9.73	-3528.83	-3528.83
1175.00	42.70	62.56	3.19	9.70	9.70	-3546.20	-3546.20
1180.00	42.74	62.62	3.18	9.67	9.67	-3563.57	-3563.57
1185.00	42.79	62.68	3.17	9.64	9.64	-3580.95	-3580.95
1190.00	42.83	62.74	3.16	9.60	9.60	-3598.33	-3598.33
1195.00	42.87	62.79	3.15	9.57	9.57	-3615.71	-3615.71
1200.00	42.92	62.85	3.14	9.54	9.54	-3633.09	-3633.09

1205.00	42.96	62.90	3.13	9.51	9.51	-3650.48	-3650.48
1210.00	43.00	62.96	3.12	9.48	9.48	-3667.86	-3667.86
1215.00	43.05	63.02	3.11	9.45	9.45	-3685.25	-3685.25
1220.00	43.09	63.07	3.10	9.42	9.42	-3702.64	-3702.64
1225.00	43.13	63.13	3.09	9.39	9.39	-3720.04	-3720.04
1230.00	43.17	63.18	3.08	9.36	9.36	-3737.43	-3737.43
1235.00	43.22	63.24	3.07	9.33	9.33	-3754.83	-3754.83
1240.00	43.26	63.29	3.06	9.30	9.30	-3772.23	-3772.23
1245.00	43.30	63.35	3.05	9.27	9.27	-3789.63	-3789.63
1250.00	43.34	63.40	3.04	9.24	9.24	-3807.03	-3807.03
1255.00	43.39	63.46	3.03	9.21	9.21	-3824.44	-3824.44
1260.00	43.43	63.51	3.02	9.18	9.18	-3841.85	-3841.85
1265.00	43.47	63.57	3.01	9.15	9.15	-3859.26	-3859.26
1270.00	43.51	63.62	3.01	9.13	9.13	-3876.67	-3876.67
1275.00	43.55	63.67	3.00	9.10	9.10	-3894.08	-3894.08
1280.00	43.59	63.73	2.99	9.07	9.07	-3911.50	-3911.50
1285.00	43.63	63.78	2.98	9.04	9.04	-3928.91	-3928.91
1290.00	43.67	63.83	2.97	9.01	9.01	-3946.33	-3946.33
1295.00	43.72	63.89	2.96	8.99	8.99	-3963.75	-3963.75
1300.00	43.76	63.94	2.95	8.96	8.96	-3981.17	-3981.17
1305.00	43.80	63.99	2.94	8.93	8.93	-3998.60	-3998.60
1310.00	43.84	64.04	2.93	8.91	8.91	-4016.02	-4016.02
1315.00	43.88	64.10	2.92	8.88	8.88	-4033.45	-4033.45
1320.00	43.92	64.15	2.92	8.85	8.85	-4050.88	-4050.88
1325.00	43.96	64.20	2.91	8.83	8.83	-4068.31	-4068.31
1330.00	44.00	64.25	2.90	8.80	8.80	-4085.74	-4085.74
1335.00	44.04	64.30	2.89	8.77	8.77	-4103.18	-4103.18
1340.00	44.08	64.36	2.88	8.75	8.75	-4120.62	-4120.62
1345.00	44.12	64.41	2.87	8.72	8.72	-4138.05	-4138.05
1350.00	44.16	64.46	2.86	8.70	8.70	-4155.49	-4155.49
1355.00	44.20	64.51	2.86	8.67	8.67	-4172.93	-4172.93
1360.00	44.24	64.56	2.85	8.65	8.65	-4190.38	-4190.38
1365.00	44.28	64.61	2.84	8.62	8.62	-4207.82	-4207.82
1370.00	44.31	64.66	2.83	8.60	8.60	-4225.27	-4225.27
1375.00	44.35	64.71	2.82	8.57	8.57	-4242.72	-4242.72
1380.00	44.39	64.76	2.82	8.55	8.55	-4260.17	-4260.17
1385.00	44.43	64.81	2.81	8.52	8.52	-4277.62	-4277.62
1390.00	44.47	64.86	2.80	8.50	8.50	-4295.07	-4295.07
1395.00	44.51	64.91	2.79	8.48	8.48	-4312.53	-4312.53
1400.00	44.55	64.96	2.78	8.45	8.45	-4329.98	-4329.98
1405.00	44.59	65.01	2.78	8.43	8.43	-4347.44	-4347.44
1410.00	44.62	65.06	2.77	8.41	8.41	-4364.90	-4364.90
1415.00	44.66	65.11	2.76	8.38	8.38	-4382.36	-4382.36
1420.00	44.70	65.16	2.75	8.36	8.36	-4399.82	-4399.82
1425.00	44.74	65.21	2.75	8.34	8.34	-4417.29	-4417.29
1430.00	44.78	65.26	2.74	8.31	8.31	-4434.75	-4434.75
1435.00	44.81	65.31	2.73	8.29	8.29	-4452.22	-4452.22
1440.00	44.85	65.36	2.72	8.27	8.27	-4469.69	-4469.69
1445.00	44.89	65.40	2.72	8.24	8.24	-4487.16	-4487.16
1450.00	44.93	65.45	2.71	8.22	8.22	-4504.63	-4504.63

1455.00	44.96	65.50	2.70	8.20	8.20	-4522.11	-4522.11
1460.00	45.00	65.55	2.69	8.18	8.18	-4539.58	-4539.58
1465.00	45.04	65.60	2.69	8.16	8.16	-4557.06	-4557.06
1470.00	45.07	65.64	2.68	8.13	8.13	-4574.53	-4574.53
1475.00	45.11	65.69	2.67	8.11	8.11	-4592.01	-4592.01
1480.00	45.15	65.74	2.67	8.09	8.09	-4609.49	-4609.49
1485.00	45.19	65.79	2.66	8.07	8.07	-4626.98	-4626.98
1490.00	45.22	65.83	2.65	8.05	8.05	-4644.46	-4644.46
1495.00	45.26	65.88	2.64	8.03	8.03	-4661.94	-4661.94
1500.00	45.29	65.93	2.64	8.01	8.01	-4679.43	-4679.43
1505.00	45.33	65.98	2.63	7.99	7.99	-4696.92	-4696.92
1510.00	45.37	66.02	2.62	7.96	7.96	-4714.41	-4714.41
1515.00	45.40	66.07	2.62	7.94	7.94	-4731.90	-4731.90
1520.00	45.44	66.12	2.61	7.92	7.92	-4749.39	-4749.39
1525.00	45.48	66.16	2.60	7.90	7.90	-4766.88	-4766.88
1530.00	45.51	66.21	2.60	7.88	7.88	-4784.38	-4784.38
1535.00	45.55	66.25	2.59	7.86	7.86	-4801.87	-4801.87
1540.00	45.58	66.30	2.58	7.84	7.84	-4819.37	-4819.37
1545.00	45.62	66.35	2.58	7.82	7.82	-4836.87	-4836.87
1550.00	45.65	66.39	2.57	7.80	7.80	-4854.37	-4854.37
1555.00	45.69	66.44	2.56	7.78	7.78	-4871.87	-4871.87
1560.00	45.73	66.48	2.56	7.76	7.76	-4889.37	-4889.37
1565.00	45.76	66.53	2.55	7.74	7.74	-4906.88	-4906.88
1570.00	45.80	66.57	2.54	7.72	7.72	-4924.38	-4924.38
1575.00	45.83	66.62	2.54	7.70	7.70	-4941.89	-4941.89
1580.00	45.87	66.66	2.53	7.69	7.69	-4959.40	-4959.40
1585.00	45.90	66.71	2.53	7.67	7.67	-4976.90	-4976.90
1590.00	45.94	66.75	2.52	7.65	7.65	-4994.41	-4994.41
1595.00	45.97	66.80	2.51	7.63	7.63	-5011.93	-5011.93
1600.00	46.01	66.84	2.51	7.61	7.61	-5029.44	-5029.44
1605.00	46.04	66.89	2.50	7.59	7.59	-5046.95	-5046.95
1610.00	46.08	66.93	2.49	7.57	7.57	-5064.47	-5064.47
1615.00	46.11	66.98	2.49	7.55	7.55	-5081.98	-5081.98
1620.00	46.14	67.02	2.48	7.54	7.54	-5099.50	-5099.50
1625.00	46.18	67.06	2.48	7.52	7.52	-5117.02	-5117.02
1630.00	46.21	67.11	2.47	7.50	7.50	-5134.54	-5134.54
1635.00	46.25	67.15	2.46	7.48	7.48	-5152.06	-5152.06
1640.00	46.28	67.20	2.46	7.46	7.46	-5169.59	-5169.59
1645.00	46.31	67.24	2.45	7.45	7.45	-5187.11	-5187.11
1650.00	46.35	67.28	2.45	7.43	7.43	-5204.63	-5204.63
1655.00	46.38	67.33	2.44	7.41	7.41	-5222.16	-5222.16
1660.00	46.42	67.37	2.44	7.39	7.39	-5239.69	-5239.69
1665.00	46.45	67.41	2.43	7.38	7.38	-5257.22	-5257.22
1670.00	46.48	67.45	2.42	7.36	7.36	-5274.75	-5274.75
1675.00	46.52	67.50	2.42	7.34	7.34	-5292.28	-5292.28
1680.00	46.55	67.54	2.41	7.32	7.32	-5309.81	-5309.81
1685.00	46.58	67.58	2.41	7.31	7.31	-5327.34	-5327.34
1690.00	46.62	67.63	2.40	7.29	7.29	-5344.88	-5344.88
1695.00	46.65	67.67	2.40	7.27	7.27	-5362.41	-5362.41
1700.00	46.68	67.71	2.39	7.26	7.26	-5379.95	-5379.95

1705.00	46.72	67.75	2.38	7.24	7.24	-5397.48	-5397.48
1710.00	46.75	67.80	2.38	7.22	7.22	-5415.02	-5415.02
1715.00	46.78	67.84	2.37	7.21	7.21	-5432.56	-5432.56
1720.00	46.82	67.88	2.37	7.19	7.19	-5450.10	-5450.10
1725.00	46.85	67.92	2.36	7.17	7.17	-5467.65	-5467.65
1730.00	46.88	67.96	2.36	7.16	7.16	-5485.19	-5485.19
1735.00	46.91	68.01	2.35	7.14	7.14	-5502.73	-5502.73
1740.00	46.95	68.05	2.35	7.12	7.12	-5520.28	-5520.28
1745.00	46.98	68.09	2.34	7.11	7.11	-5537.82	-5537.82
1750.00	47.01	68.13	2.34	7.09	7.09	-5555.37	-5555.37
1755.00	47.04	68.17	2.33	7.08	7.08	-5572.92	-5572.92
1760.00	47.08	68.21	2.33	7.06	7.06	-5590.47	-5590.47
1765.00	47.11	68.25	2.32	7.04	7.04	-5608.02	-5608.02
1770.00	47.14	68.29	2.32	7.03	7.03	-5625.57	-5625.57
1775.00	47.17	68.34	2.31	7.01	7.01	-5643.12	-5643.12
1780.00	47.20	68.38	2.30	7.00	7.00	-5660.68	-5660.68
1785.00	47.24	68.42	2.30	6.98	6.98	-5678.23	-5678.23
1790.00	47.27	68.46	2.29	6.97	6.97	-5695.79	-5695.79
1795.00	47.30	68.50	2.29	6.95	6.95	-5713.34	-5713.34
1800.00	47.33	68.54	2.28	6.94	6.94	-5730.90	-5730.90
1805.00	47.36	68.58	2.28	6.92	6.92	-5748.46	-5748.46
1810.00	47.39	68.62	2.27	6.91	6.91	-5766.02	-5766.02
1815.00	47.43	68.66	2.27	6.89	6.89	-5783.58	-5783.58
1820.00	47.46	68.70	2.26	6.88	6.88	-5801.14	-5801.14
1825.00	47.49	68.74	2.26	6.86	6.86	-5818.71	-5818.71
1830.00	47.52	68.78	2.26	6.85	6.85	-5836.27	-5836.27
1835.00	47.55	68.82	2.25	6.83	6.83	-5853.83	-5853.83
1840.00	47.58	68.86	2.25	6.82	6.82	-5871.40	-5871.40
1845.00	47.61	68.90	2.24	6.80	6.80	-5888.97	-5888.97
1850.00	47.64	68.94	2.24	6.79	6.79	-5906.53	-5906.53
1855.00	47.68	68.98	2.23	6.77	6.77	-5924.10	-5924.10
1860.00	47.71	69.02	2.23	6.76	6.76	-5941.67	-5941.67
1865.00	47.74	69.06	2.22	6.74	6.74	-5959.24	-5959.24
1870.00	47.77	69.10	2.22	6.73	6.73	-5976.81	-5976.81
1875.00	47.80	69.13	2.21	6.72	6.72	-5994.38	-5994.38
1880.00	47.83	69.17	2.21	6.70	6.70	-6011.96	-6011.96
1885.00	47.86	69.21	2.20	6.69	6.69	-6029.53	-6029.53
1890.00	47.89	69.25	2.20	6.67	6.67	-6047.11	-6047.11
1895.00	47.92	69.29	2.19	6.66	6.66	-6064.68	-6064.68
1900.00	47.95	69.33	2.19	6.65	6.65	-6082.26	-6082.26
1905.00	47.98	69.37	2.18	6.63	6.63	-6099.84	-6099.84
1910.00	48.01	69.41	2.18	6.62	6.62	-6117.42	-6117.42
1915.00	48.04	69.44	2.18	6.61	6.61	-6135.00	-6135.00
1920.00	48.07	69.48	2.17	6.59	6.59	-6152.58	-6152.58
1925.00	48.10	69.52	2.17	6.58	6.58	-6170.16	-6170.16
1930.00	48.13	69.56	2.16	6.57	6.57	-6187.74	-6187.74
1935.00	48.16	69.60	2.16	6.55	6.55	-6205.32	-6205.32
1940.00	48.19	69.64	2.15	6.54	6.54	-6222.91	-6222.91
1945.00	48.22	69.67	2.15	6.53	6.53	-6240.49	-6240.49
1950.00	48.25	69.71	2.14	6.51	6.51	-6258.08	-6258.08

1955.00	48.28	69.75	2.14	6.50	6.50	-6275.66	-6275.66
1960.00	48.31	69.79	2.14	6.49	6.49	-6293.25	-6293.25
1965.00	48.34	69.82	2.13	6.47	6.47	-6310.84	-6310.84
1970.00	48.37	69.86	2.13	6.46	6.46	-6328.43	-6328.43
1975.00	48.40	69.90	2.12	6.45	6.45	-6346.02	-6346.02
1980.00	48.43	69.94	2.12	6.43	6.43	-6363.61	-6363.61
1985.00	48.46	69.97	2.12	6.42	6.42	-6381.20	-6381.20
1990.00	48.49	70.01	2.11	6.41	6.41	-6398.80	-6398.80
1995.00	48.52	70.05	2.11	6.40	6.40	-6416.39	-6416.39
2000.00	48.55	70.09	2.10	6.38	6.38	-6433.98	-6433.98
2005.00	48.58	70.12	2.10	6.37	6.37	-6451.58	-6451.58
2010.00	48.61	70.16	2.09	6.36	6.36	-6469.17	-6469.17
2015.00	48.64	70.20	2.09	6.35	6.35	-6486.77	-6486.77
2020.00	48.66	70.23	2.09	6.33	6.33	-6504.37	-6504.37
2025.00	48.69	70.27	2.08	6.32	6.32	-6521.97	-6521.97
2030.00	48.72	70.31	2.08	6.31	6.31	-6539.57	-6539.57
2035.00	48.75	70.34	2.07	6.30	6.30	-6557.17	-6557.17
2040.00	48.78	70.38	2.07	6.28	6.28	-6574.77	-6574.77
2045.00	48.81	70.42	2.07	6.27	6.27	-6592.37	-6592.37
2050.00	48.84	70.45	2.06	6.26	6.26	-6609.97	-6609.97
2055.00	48.87	70.49	2.06	6.25	6.25	-6627.57	-6627.57
2060.00	48.89	70.53	2.05	6.24	6.24	-6645.18	-6645.18
2065.00	48.92	70.56	2.05	6.22	6.22	-6662.78	-6662.78
2070.00	48.95	70.60	2.05	6.21	6.21	-6680.39	-6680.39
2075.00	48.98	70.63	2.04	6.20	6.20	-6698.00	-6698.00
2080.00	49.01	70.67	2.04	6.19	6.19	-6715.60	-6715.60
2085.00	49.04	70.71	2.03	6.18	6.18	-6733.21	-6733.21
2090.00	49.07	70.74	2.03	6.17	6.17	-6750.82	-6750.82
2095.00	49.09	70.78	2.03	6.15	6.15	-6768.43	-6768.43
2100.00	49.12	70.81	2.02	6.14	6.14	-6786.04	-6786.04
2105.00	49.15	70.85	2.02	6.13	6.13	-6803.65	-6803.65
2110.00	49.18	70.88	2.02	6.12	6.12	-6821.26	-6821.26
2115.00	49.21	70.92	2.01	6.11	6.11	-6838.87	-6838.87
2120.00	49.23	70.96	2.01	6.10	6.10	-6856.49	-6856.49
2125.00	49.26	70.99	2.00	6.09	6.09	-6874.10	-6874.10
2130.00	49.29	71.03	2.00	6.07	6.07	-6891.72	-6891.72
2135.00	49.32	71.06	2.00	6.06	6.06	-6909.33	-6909.33
2140.00	49.35	71.10	1.99	6.05	6.05	-6926.95	-6926.95
2145.00	49.37	71.13	1.99	6.04	6.04	-6944.57	-6944.57
2150.00	49.40	71.17	1.99	6.03	6.03	-6962.18	-6962.18
2155.00	49.43	71.20	1.98	6.02	6.02	-6979.80	-6979.80
2160.00	49.46	71.24	1.98	6.01	6.01	-6997.42	-6997.42
2165.00	49.48	71.27	1.98	6.00	6.00	-7015.04	-7015.04
2170.00	49.51	71.31	1.97	5.99	5.99	-7032.66	-7032.66
2175.00	49.54	71.34	1.97	5.97	5.97	-7050.28	-7050.28
2180.00	49.57	71.37	1.96	5.96	5.96	-7067.90	-7067.90
2185.00	49.59	71.41	1.96	5.95	5.95	-7085.53	-7085.53
2190.00	49.62	71.44	1.96	5.94	5.94	-7103.15	-7103.15
2195.00	49.65	71.48	1.95	5.93	5.93	-7120.78	-7120.78
2200.00	49.68	71.51	1.95	5.92	5.92	-7138.40	-7138.40

2205.00	49.70	71.55	1.95	5.91	5.91	-7156.03	-7156.03
2210.00	49.73	71.58	1.94	5.90	5.90	-7173.65	-7173.65
2215.00	49.76	71.61	1.94	5.89	5.89	-7191.28	-7191.28
2220.00	49.78	71.65	1.94	5.88	5.88	-7208.91	-7208.91
2225.00	49.81	71.68	1.93	5.87	5.87	-7226.53	-7226.53
2230.00	49.84	71.72	1.93	5.86	5.86	-7244.16	-7244.16
2235.00	49.86	71.75	1.93	5.85	5.85	-7261.79	-7261.79
2240.00	49.89	71.78	1.92	5.84	5.84	-7279.42	-7279.42
2245.00	49.92	71.82	1.92	5.83	5.83	-7297.06	-7297.06
2250.00	49.94	71.85	1.92	5.82	5.82	-7314.69	-7314.69
2255.00	49.97	71.89	1.91	5.81	5.81	-7332.32	-7332.32
2260.00	50.00	71.92	1.91	5.80	5.80	-7349.95	-7349.95
2265.00	50.02	71.95	1.91	5.79	5.79	-7367.59	-7367.59
2270.00	50.05	71.99	1.90	5.78	5.78	-7385.22	-7385.22
2275.00	50.08	72.02	1.90	5.77	5.77	-7402.86	-7402.86
2280.00	50.10	72.05	1.90	5.76	5.76	-7420.49	-7420.49
2285.00	50.13	72.09	1.89	5.75	5.75	-7438.13	-7438.13
2290.00	50.16	72.12	1.89	5.74	5.74	-7455.76	-7455.76
2295.00	50.18	72.15	1.89	5.73	5.73	-7473.40	-7473.40
2300.00	50.21	72.19	1.88	5.72	5.72	-7491.04	-7491.04
2305.00	50.24	72.22	1.88	5.71	5.71	-7508.68	-7508.68
2310.00	50.26	72.25	1.88	5.70	5.70	-7526.32	-7526.32
2315.00	50.29	72.28	1.87	5.69	5.69	-7543.96	-7543.96
2320.00	50.31	72.32	1.87	5.68	5.68	-7561.60	-7561.60
2325.00	50.34	72.35	1.87	5.67	5.67	-7579.24	-7579.24
2330.00	50.37	72.38	1.86	5.66	5.66	-7596.88	-7596.88
2335.00	50.39	72.42	1.86	5.65	5.65	-7614.53	-7614.53
2340.00	50.42	72.45	1.86	5.64	5.64	-7632.17	-7632.17
2345.00	50.44	72.48	1.85	5.63	5.63	-7649.81	-7649.81
2350.00	50.47	72.51	1.85	5.62	5.62	-7667.46	-7667.46
2355.00	50.50	72.55	1.85	5.61	5.61	-7685.10	-7685.10
2360.00	50.52	72.58	1.85	5.60	5.60	-7702.75	-7702.75
2365.00	50.55	72.61	1.84	5.59	5.59	-7720.40	-7720.40
2370.00	50.57	72.64	1.84	5.58	5.58	-7738.04	-7738.04
2375.00	50.60	72.67	1.84	5.57	5.57	-7755.69	-7755.69
2380.00	50.62	72.71	1.83	5.56	5.56	-7773.34	-7773.34
2385.00	50.65	72.74	1.83	5.56	5.56	-7790.99	-7790.99
2390.00	50.68	72.77	1.83	5.55	5.55	-7808.64	-7808.64
2395.00	50.70	72.80	1.82	5.54	5.54	-7826.29	-7826.29
2400.00	50.73	72.84	1.82	5.53	5.53	-7843.94	-7843.94
2405.00	50.75	72.87	1.82	5.52	5.52	-7861.59	-7861.59
2410.00	50.78	72.90	1.81	5.51	5.51	-7879.24	-7879.24
2415.00	50.80	72.93	1.81	5.50	5.50	-7896.90	-7896.90
2420.00	50.83	72.96	1.81	5.49	5.49	-7914.55	-7914.55
2425.00	50.85	72.99	1.81	5.48	5.48	-7932.20	-7932.20
2430.00	50.88	73.03	1.80	5.47	5.47	-7949.86	-7949.86
2435.00	50.90	73.06	1.80	5.47	5.47	-7967.51	-7967.51
2440.00	50.93	73.09	1.80	5.46	5.46	-7985.17	-7985.17
2445.00	50.95	73.12	1.79	5.45	5.45	-8002.82	-8002.82
2450.00	50.98	73.15	1.79	5.44	5.44	-8020.48	-8020.48



2455.00	51.00	73.18	1.79	5.43	5.43	-8038.14	-8038.14
2460.00	51.03	73.21	1.79	5.42	5.42	-8055.79	-8055.79
2465.00	51.05	73.25	1.78	5.41	5.41	-8073.45	-8073.45
2470.00	51.08	73.28	1.78	5.40	5.40	-8091.11	-8091.11
2475.00	51.10	73.31	1.78	5.40	5.40	-8108.77	-8108.77
2480.00	51.13	73.34	1.77	5.39	5.39	-8126.43	-8126.43
2485.00	51.15	73.37	1.77	5.38	5.38	-8144.09	-8144.09
2490.00	51.18	73.40	1.77	5.37	5.37	-8161.75	-8161.75
2495.00	51.20	73.43	1.77	5.36	5.36	-8179.41	-8179.41
2500.00	51.23	73.46	1.76	5.35	5.35	-8197.08	-8197.08
2505.00	51.25	73.49	1.76	5.34	5.34	-8214.74	-8214.74
2510.00	51.28	73.52	1.76	5.34	5.34	-8232.40	-8232.40
2515.00	51.30	73.56	1.75	5.33	5.33	-8250.07	-8250.07
2520.00	51.33	73.59	1.75	5.32	5.32	-8267.73	-8267.73
2525.00	51.35	73.62	1.75	5.31	5.31	-8285.40	-8285.40
2530.00	51.37	73.65	1.75	5.30	5.30	-8303.06	-8303.06
2535.00	51.40	73.68	1.74	5.29	5.29	-8320.73	-8320.73
2540.00	51.42	73.71	1.74	5.29	5.29	-8338.39	-8338.39
2545.00	51.45	73.74	1.74	5.28	5.28	-8356.06	-8356.06
2550.00	51.47	73.77	1.74	5.27	5.27	-8373.73	-8373.73
2555.00	51.50	73.80	1.73	5.26	5.26	-8391.40	-8391.40
2560.00	51.52	73.83	1.73	5.25	5.25	-8409.07	-8409.07
2565.00	51.54	73.86	1.73	5.25	5.25	-8426.74	-8426.74
2570.00	51.57	73.89	1.73	5.24	5.24	-8444.41	-8444.41
2575.00	51.59	73.92	1.72	5.23	5.23	-8462.08	-8462.08
2580.00	51.62	73.95	1.72	5.22	5.22	-8479.75	-8479.75
2585.00	51.64	73.98	1.72	5.21	5.21	-8497.42	-8497.42
2590.00	51.66	74.01	1.71	5.21	5.21	-8515.09	-8515.09
2595.00	51.69	74.04	1.71	5.20	5.20	-8532.76	-8532.76
2600.00	51.71	74.07	1.71	5.19	5.19	-8550.44	-8550.44
2605.00	51.74	74.10	1.71	5.18	5.18	-8568.11	-8568.11
2610.00	51.76	74.13	1.70	5.17	5.17	-8585.78	-8585.78
2615.00	51.78	74.16	1.70	5.17	5.17	-8603.46	-8603.46
2620.00	51.81	74.19	1.70	5.16	5.16	-8621.13	-8621.13
2625.00	51.83	74.22	1.70	5.15	5.15	-8638.81	-8638.81
2630.00	51.86	74.25	1.69	5.14	5.14	-8656.48	-8656.48
2635.00	51.88	74.28	1.69	5.13	5.13	-8674.16	-8674.16
2640.00	51.90	74.31	1.69	5.13	5.13	-8691.84	-8691.84
2645.00	51.93	74.34	1.69	5.12	5.12	-8709.52	-8709.52
2650.00	51.95	74.37	1.68	5.11	5.11	-8727.19	-8727.19
2655.00	51.97	74.40	1.68	5.10	5.10	-8744.87	-8744.87
2660.00	52.00	74.43	1.68	5.10	5.10	-8762.55	-8762.55
2665.00	52.02	74.46	1.68	5.09	5.09	-8780.23	-8780.23
2670.00	52.04	74.48	1.67	5.08	5.08	-8797.91	-8797.91
2675.00	52.07	74.51	1.67	5.07	5.07	-8815.59	-8815.59
2680.00	52.09	74.54	1.67	5.07	5.07	-8833.27	-8833.27
2685.00	52.11	74.57	1.67	5.06	5.06	-8850.95	-8850.95
2690.00	52.14	74.60	1.66	5.05	5.05	-8868.64	-8868.64
2695.00	52.16	74.63	1.66	5.04	5.04	-8886.32	-8886.32
2700.00	52.18	74.66	1.66	5.04	5.04	-8904.00	-8904.00

2705.00	52.21	74.69	1.66	5.03	5.03	-8921.69	-8921.69
2710.00	52.23	74.72	1.65	5.02	5.02	-8939.37	-8939.37
2715.00	52.25	74.75	1.65	5.02	5.02	-8957.05	-8957.05
2720.00	52.28	74.78	1.65	5.01	5.01	-8974.74	-8974.74
2725.00	52.30	74.80	1.65	5.00	5.00	-8992.42	-8992.42
2730.00	52.32	74.83	1.64	4.99	4.99	-9010.11	-9010.11
2735.00	52.35	74.86	1.64	4.99	4.99	-9027.80	-9027.80
2740.00	52.37	74.89	1.64	4.98	4.98	-9045.48	-9045.48
2745.00	52.39	74.92	1.64	4.97	4.97	-9063.17	-9063.17
2750.00	52.41	74.95	1.64	4.96	4.96	-9080.86	-9080.86
2755.00	52.44	74.98	1.63	4.96	4.96	-9098.55	-9098.55
2760.00	52.46	75.00	1.63	4.95	4.95	-9116.23	-9116.23
2765.00	52.48	75.03	1.63	4.94	4.94	-9133.92	-9133.92
2770.00	52.51	75.06	1.63	4.94	4.94	-9151.61	-9151.61
2775.00	52.53	75.09	1.62	4.93	4.93	-9169.30	-9169.30
2780.00	52.55	75.12	1.62	4.92	4.92	-9186.99	-9186.99
2785.00	52.57	75.15	1.62	4.92	4.92	-9204.68	-9204.68
2790.00	52.60	75.17	1.62	4.91	4.91	-9222.38	-9222.38
2795.00	52.62	75.20	1.61	4.90	4.90	-9240.07	-9240.07
2800.00	52.64	75.23	1.61	4.89	4.89	-9257.76	-9257.76
2805.00	52.66	75.26	1.61	4.89	4.89	-9275.45	-9275.45
2810.00	52.69	75.29	1.61	4.88	4.88	-9293.15	-9293.15
2815.00	52.71	75.31	1.61	4.87	4.87	-9310.84	-9310.84
2820.00	52.73	75.34	1.60	4.87	4.87	-9328.53	-9328.53
2825.00	52.75	75.37	1.60	4.86	4.86	-9346.23	-9346.23
2830.00	52.78	75.40	1.60	4.85	4.85	-9363.92	-9363.92
2835.00	52.80	75.43	1.60	4.85	4.85	-9381.62	-9381.62
2840.00	52.82	75.45	1.59	4.84	4.84	-9399.32	-9399.32
2845.00	52.84	75.48	1.59	4.83	4.83	-9417.01	-9417.01
2850.00	52.87	75.51	1.59	4.83	4.83	-9434.71	-9434.71
2855.00	52.89	75.54	1.59	4.82	4.82	-9452.41	-9452.41
2860.00	52.91	75.57	1.59	4.81	4.81	-9470.10	-9470.10
2865.00	52.93	75.59	1.58	4.81	4.81	-9487.80	-9487.80
2870.00	52.96	75.62	1.58	4.80	4.80	-9505.50	-9505.50
2875.00	52.98	75.65	1.58	4.79	4.79	-9523.20	-9523.20
2880.00	53.00	75.68	1.58	4.79	4.79	-9540.90	-9540.90

**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
2.36	0.1699	0.0028	0.000114	0.212344	0.403709	1.497368
2.53	0.1644	0.005831	-0.00013	0.216534	0.411675	1.509343
2.64	0.1644	0.005831	-0.00013	0.219831	0.417942	1.518833
2.72	0.1644	0.005831	-0.00013	0.222032	0.422126	1.525201
2.78	0.1644	0.005831	-0.00013	0.223586	0.42508	1.529713
2.83	0.1644	0.005831	-0.00013	0.224721	0.427238	1.533018
2.88	0.1644	0.005831	-0.00013	0.225566	0.428846	1.535485
2.91	0.1644	0.005831	-0.00013	0.226203	0.430056	1.537344
2.94	0.1644	0.005831	-0.00013	0.226682	0.430967	1.538744
2.97	0.1644	0.005831	-0.00013	0.227039	0.431646	1.53979
3.00	0.1644	0.005831	-0.00013	0.2273	0.432142	1.540554
3.02	0.1644	0.005831	-0.00013	0.227483	0.432491	1.541091
3.04	0.1644	0.005831	-0.00013	0.227603	0.432718	1.541442
3.06	0.1644	0.005831	-0.00013	0.22767	0.432845	1.541637
3.08	0.1644	0.005831	-0.00013	0.227692	0.432888	1.541703
3.09	0.1644	0.005831	-0.00013	0.227677	0.432858	1.541658
3.11	0.1644	0.005831	-0.00013	0.227629	0.432768	1.541518
3.12	0.1644	0.005831	-0.00013	0.227554	0.432624	1.541297
3.14	0.1644	0.005831	-0.00013	0.227454	0.432435	1.541005
3.15	0.1644	0.005831	-0.00013	0.227333	0.432205	1.540652
3.16	0.1644	0.005831	-0.00013	0.227194	0.431941	1.540244
3.17	0.1644	0.005831	-0.00013	0.227038	0.431645	1.539788
3.19	0.1644	0.005831	-0.00013	0.226868	0.431321	1.539289
3.20	0.1644	0.005831	-0.00013	0.226685	0.430973	1.538753
3.21	0.1644	0.005831	-0.00013	0.22649	0.430603	1.538184
3.22	0.1644	0.005831	-0.00013	0.226285	0.430213	1.537585
3.23	0.1644	0.005831	-0.00013	0.226071	0.429805	1.536958
3.24	0.1644	0.005831	-0.00013	0.225848	0.429382	1.536308
3.24	0.1644	0.005831	-0.00013	0.225618	0.428944	1.535635
3.25	0.1644	0.005831	-0.00013	0.225381	0.428494	1.534944
3.26	0.1644	0.005831	-0.00013	0.225138	0.428031	1.534234
3.27	0.1644	0.005831	-0.00013	0.224889	0.427558	1.533508
3.28	0.1644	0.005831	-0.00013	0.224635	0.427075	1.532768
3.28	0.1644	0.005831	-0.00013	0.224376	0.426584	1.532015
3.29	0.1644	0.005831	-0.00013	0.224114	0.426084	1.531249
3.30	0.1644	0.005831	-0.00013	0.223847	0.425577	1.530473
3.30	0.1644	0.005831	-0.00013	0.223577	0.425063	1.529687
3.31	0.1644	0.005831	-0.00013	0.223303	0.424543	1.528892
3.32	0.1644	0.005831	-0.00013	0.223027	0.424018	1.528089

3.32	0.1644	0.005831	-0.00013	0.222748	0.423487	1.527279
3.33	0.1644	0.005831	-0.00013	0.222466	0.422952	1.526461
3.34	0.1644	0.005831	-0.00013	0.222182	0.422413	1.525638
3.34	0.1644	0.005831	-0.00013	0.221897	0.421869	1.524809
3.35	0.1644	0.005831	-0.00013	0.221609	0.421322	1.523975
3.35	0.1644	0.005831	-0.00013	0.221319	0.420772	1.523137
3.36	0.1644	0.005831	-0.00013	0.221028	0.420219	1.522294
3.36	0.1644	0.005831	-0.00013	0.220736	0.419663	1.521448
3.37	0.1644	0.005831	-0.00013	0.220442	0.419104	1.520599
3.37	0.1644	0.005831	-0.00013	0.220147	0.418543	1.519746
3.38	0.1644	0.005831	-0.00013	0.219851	0.41798	1.518891
3.38	0.1644	0.005831	-0.00013	0.219554	0.417416	1.518033
3.39	0.1644	0.005831	-0.00013	0.219256	0.416849	1.517174
3.39	0.1644	0.005831	-0.00013	0.218957	0.416281	1.516312
3.40	0.1644	0.005831	-0.00013	0.218658	0.415712	1.515449
3.40	0.1644	0.005831	-0.00013	0.218358	0.415141	1.514585
3.41	0.1644	0.005831	-0.00013	0.218057	0.41457	1.513719
3.41	0.1644	0.005831	-0.00013	0.217756	0.413997	1.512853
3.42	0.1644	0.005831	-0.00013	0.217454	0.413423	1.511985
3.42	0.1644	0.005831	-0.00013	0.217152	0.412849	1.511117
3.42	0.1644	0.005831	-0.00013	0.21685	0.412274	1.510248
3.43	0.1644	0.005831	-0.00013	0.216547	0.411699	1.509379
3.43	0.1644	0.005831	-0.00013	0.216244	0.411122	1.50851
3.44	0.2644	-0.00162	3.15E-06	0.217086	0.412724	1.510928
3.44	0.2644	-0.00162	3.15E-06	0.216915	0.412399	1.510437
3.44	0.2644	-0.00162	3.15E-06	0.216746	0.412078	1.509952
3.45	0.2644	-0.00162	3.15E-06	0.21658	0.411761	1.509473
3.45	0.2644	-0.00162	3.15E-06	0.216415	0.411448	1.509001
3.45	0.2644	-0.00162	3.15E-06	0.216252	0.411138	1.508534
3.46	0.2644	-0.00162	3.15E-06	0.216091	0.410833	1.508073
3.46	0.2644	-0.00162	3.15E-06	0.215933	0.41053	1.507617
3.47	0.2644	-0.00162	3.15E-06	0.215775	0.410232	1.507167
3.47	0.2644	-0.00162	3.15E-06	0.21562	0.409936	1.506722
3.47	0.2644	-0.00162	3.15E-06	0.215467	0.409645	1.506282
3.48	0.2644	-0.00162	3.15E-06	0.215315	0.409356	1.505847
3.48	0.2644	-0.00162	3.15E-06	0.215164	0.40907	1.505417
3.48	0.2644	-0.00162	3.15E-06	0.215016	0.408788	1.504992
3.49	0.2644	-0.00162	3.15E-06	0.214869	0.408508	1.504571
3.49	0.2644	-0.00162	3.15E-06	0.214723	0.408231	1.504155
3.49	0.2644	-0.00162	3.15E-06	0.214579	0.407958	1.503743
3.49	0.2644	-0.00162	3.15E-06	0.214437	0.407687	1.503336
3.50	0.2644	-0.00162	3.15E-06	0.214296	0.407418	1.502933
3.50	0.2644	-0.00162	3.15E-06	0.214156	0.407153	1.502534
3.50	0.2644	-0.00162	3.15E-06	0.214018	0.40689	1.502139
3.51	0.2644	-0.00162	3.15E-06	0.213881	0.406629	1.501747
3.51	0.2644	-0.00162	3.15E-06	0.213745	0.406371	1.50136
3.51	0.2644	-0.00162	3.15E-06	0.213611	0.406116	1.500977
3.51	0.2644	-0.00162	3.15E-06	0.213477	0.405863	1.500597
3.52	0.2644	-0.00162	3.15E-06	0.213346	0.405612	1.50022
3.52	0.2644	-0.00162	3.15E-06	0.213215	0.405364	1.499848

3.52	0.2644	-0.00162	3.15E-06	0.213085	0.405117	1.499479
3.53	0.2644	-0.00162	3.15E-06	0.212957	0.404873	1.499113
3.53	0.2644	-0.00162	3.15E-06	0.21283	0.404632	1.49875
3.53	0.2644	-0.00162	3.15E-06	0.212704	0.404392	1.498391
3.53	0.2644	-0.00162	3.15E-06	0.212579	0.404154	1.498035
3.54	0.2644	-0.00162	3.15E-06	0.212455	0.403919	1.497682
3.54	0.2644	-0.00162	3.15E-06	0.212332	0.403685	1.497332
3.54	0.2644	-0.00162	3.15E-06	0.21221	0.403453	1.496985
3.54	0.2644	-0.00162	3.15E-06	0.212089	0.403223	1.496641
3.55	0.2644	-0.00162	3.15E-06	0.211969	0.402996	1.4963
3.55	0.2644	-0.00162	3.15E-06	0.211851	0.40277	1.495962
3.55	0.2644	-0.00162	3.15E-06	0.211733	0.402545	1.495627
3.55	0.2644	-0.00162	3.15E-06	0.211616	0.402323	1.495294
3.56	0.2644	-0.00162	3.15E-06	0.2115	0.402102	1.494965
3.56	0.2644	-0.00162	3.15E-06	0.211384	0.401884	1.494637
3.56	0.2644	-0.00162	3.15E-06	0.21127	0.401666	1.494313
3.56	0.2644	-0.00162	3.15E-06	0.211157	0.401451	1.493991
3.57	0.2644	-0.00162	3.15E-06	0.211044	0.401237	1.493671
3.57	0.2644	-0.00162	3.15E-06	0.210933	0.401025	1.493354
3.57	0.2644	-0.00162	3.15E-06	0.210822	0.400814	1.493039
3.57	0.2644	-0.00162	3.15E-06	0.210712	0.400605	1.492727
3.57	0.2644	-0.00162	3.15E-06	0.210603	0.400397	1.492417
3.58	0.2644	-0.00162	3.15E-06	0.210494	0.400191	1.49211
3.58	0.2644	-0.00162	3.15E-06	0.210387	0.399986	1.491805
3.58	0.2644	-0.00162	3.15E-06	0.21028	0.399783	1.491501
3.58	0.2644	-0.00162	3.15E-06	0.210174	0.399582	1.491201
3.58	0.2644	-0.00162	3.15E-06	0.210068	0.399381	1.490902
3.59	0.2644	-0.00162	3.15E-06	0.209964	0.399182	1.490605
3.59	0.2644	-0.00162	3.15E-06	0.20986	0.398985	1.490311
3.59	0.2644	-0.00162	3.15E-06	0.209757	0.398789	1.490019
3.59	0.2644	-0.00162	3.15E-06	0.209654	0.398594	1.489728
3.59	0.2644	-0.00162	3.15E-06	0.209552	0.3984	1.48944
3.60	0.2644	-0.00162	3.15E-06	0.209451	0.398208	1.489154
3.60	0.2644	-0.00162	3.15E-06	0.209351	0.398017	1.488869
3.60	0.2644	-0.00162	3.15E-06	0.209251	0.397827	1.488587
3.60	0.2644	-0.00162	3.15E-06	0.209152	0.397639	1.488306
3.60	0.2644	-0.00162	3.15E-06	0.209053	0.397451	1.488028
3.61	0.2644	-0.00162	3.15E-06	0.208955	0.397265	1.487751
3.61	0.2644	-0.00162	3.15E-06	0.208858	0.39708	1.487476
3.61	0.2644	-0.00162	3.15E-06	0.208761	0.396897	1.487202
3.61	0.2644	-0.00162	3.15E-06	0.208665	0.396714	1.486931
3.61	0.2644	-0.00162	3.15E-06	0.20857	0.396533	1.486661
3.62	0.2644	-0.00162	3.15E-06	0.208475	0.396352	1.486393
3.62	0.2644	-0.00162	3.15E-06	0.208381	0.396173	1.486127
3.62	0.2644	-0.00162	3.15E-06	0.208287	0.395995	1.485862
3.62	0.2644	-0.00162	3.15E-06	0.208194	0.395818	1.485599
3.62	0.2644	-0.00162	3.15E-06	0.208101	0.395642	1.485337
3.62	0.2644	-0.00162	3.15E-06	0.208009	0.395467	1.485077
3.63	0.2644	-0.00162	3.15E-06	0.207918	0.395293	1.484819
3.63	0.2644	-0.00162	3.15E-06	0.207827	0.39512	1.484562

3.63	0.2644	-0.00162	3.15E-06	0.207737	0.394948	1.484307
3.63	0.2644	-0.00162	3.15E-06	0.207647	0.394777	1.484054
3.63	0.2644	-0.00162	3.15E-06	0.207557	0.394607	1.483801
3.64	0.2644	-0.00162	3.15E-06	0.207468	0.394438	1.483551
3.64	0.2644	-0.00162	3.15E-06	0.20738	0.39427	1.483301
3.64	0.2644	-0.00162	3.15E-06	0.207292	0.394103	1.483054
3.64	0.2644	-0.00162	3.15E-06	0.207205	0.393937	1.482807
3.64	0.2644	-0.00162	3.15E-06	0.207118	0.393772	1.482562
3.64	0.2644	-0.00162	3.15E-06	0.207031	0.393607	1.482319
3.65	0.2644	-0.00162	3.15E-06	0.206945	0.393444	1.482076
3.65	0.2644	-0.00162	3.15E-06	0.20686	0.393282	1.481835
3.65	0.2644	-0.00162	3.15E-06	0.206775	0.39312	1.481596
3.65	0.2644	-0.00162	3.15E-06	0.20669	0.392959	1.481358
3.65	0.2644	-0.00162	3.15E-06	0.206606	0.392799	1.481121
3.65	0.2644	-0.00162	3.15E-06	0.206522	0.39264	1.480885
3.65	0.2644	-0.00162	3.15E-06	0.206439	0.392482	1.480651
3.66	0.2644	-0.00162	3.15E-06	0.206356	0.392324	1.480418
3.66	0.2644	-0.00162	3.15E-06	0.206274	0.392168	1.480186
3.66	0.2644	-0.00162	3.15E-06	0.206192	0.392012	1.479955
3.66	0.2644	-0.00162	3.15E-06	0.206111	0.391857	1.479726
3.66	0.2644	-0.00162	3.15E-06	0.206029	0.391703	1.479498
3.66	0.2644	-0.00162	3.15E-06	0.205949	0.391549	1.479271
3.67	0.2644	-0.00162	3.15E-06	0.205868	0.391396	1.479045
3.67	0.2644	-0.00162	3.15E-06	0.205789	0.391245	1.47882
3.67	0.2644	-0.00162	3.15E-06	0.205709	0.391093	1.478597
3.67	0.2644	-0.00162	3.15E-06	0.20563	0.390943	1.478374
3.67	0.2644	-0.00162	3.15E-06	0.205551	0.390793	1.478153
3.67	0.2644	-0.00162	3.15E-06	0.205473	0.390644	1.477933
3.67	0.2644	-0.00162	3.15E-06	0.205395	0.390496	1.477714
3.68	0.2644	-0.00162	3.15E-06	0.205317	0.390349	1.477496
3.68	0.2644	-0.00162	3.15E-06	0.20524	0.390202	1.477279
3.68	0.2644	-0.00162	3.15E-06	0.205163	0.390056	1.477063
3.68	0.2644	-0.00162	3.15E-06	0.205087	0.38991	1.476848
3.68	0.2644	-0.00162	3.15E-06	0.205011	0.389766	1.476635
3.68	0.2644	-0.00162	3.15E-06	0.204935	0.389621	1.476422
3.68	0.2644	-0.00162	3.15E-06	0.204859	0.389478	1.47621
3.69	0.2644	-0.00162	3.15E-06	0.204784	0.389335	1.475999
3.69	0.2644	-0.00162	3.15E-06	0.20471	0.389193	1.47579
3.69	0.2644	-0.00162	3.15E-06	0.204635	0.389052	1.475581
3.69	0.2644	-0.00162	3.15E-06	0.204561	0.388911	1.475373
3.69	0.2644	-0.00162	3.15E-06	0.204487	0.388771	1.475167
3.69	0.2644	-0.00162	3.15E-06	0.204414	0.388631	1.474961
3.69	0.2644	-0.00162	3.15E-06	0.204341	0.388493	1.474756
3.69	0.2644	-0.00162	3.15E-06	0.204268	0.388354	1.474552
3.70	0.2644	-0.00162	3.15E-06	0.204196	0.388217	1.474349
3.70	0.2644	-0.00162	3.15E-06	0.204124	0.38808	1.474147
3.70	0.2644	-0.00162	3.15E-06	0.204052	0.387943	1.473946
3.70	0.2644	-0.00162	3.15E-06	0.203981	0.387807	1.473746
3.70	0.2644	-0.00162	3.15E-06	0.203909	0.387672	1.473546
3.70	0.2644	-0.00162	3.15E-06	0.203839	0.387537	1.473348

3.70	0.2644	-0.00162	3.15E-06	0.203768	0.387403	1.47315
3.71	0.2644	-0.00162	3.15E-06	0.203698	0.38727	1.472954
3.71	0.2644	-0.00162	3.15E-06	0.203628	0.387137	1.472758
3.71	0.2644	-0.00162	3.15E-06	0.203558	0.387004	1.472563
3.71	0.2644	-0.00162	3.15E-06	0.203489	0.386872	1.472369
3.71	0.2644	-0.00162	3.15E-06	0.20342	0.386741	1.472175
3.71	0.2644	-0.00162	3.15E-06	0.203351	0.38661	1.471983
3.71	0.2644	-0.00162	3.15E-06	0.203283	0.38648	1.471791
3.71	0.2644	-0.00162	3.15E-06	0.203214	0.38635	1.4716
3.72	0.2644	-0.00162	3.15E-06	0.203146	0.386221	1.47141
3.72	0.2644	-0.00162	3.15E-06	0.203079	0.386093	1.471221
3.72	0.2644	-0.00162	3.15E-06	0.203011	0.385965	1.471033
3.72	0.2644	-0.00162	3.15E-06	0.202944	0.385837	1.470845
3.72	0.2644	-0.00162	3.15E-06	0.202877	0.38571	1.470658
3.72	0.2644	-0.00162	3.15E-06	0.202811	0.385583	1.470472
3.72	0.2644	-0.00162	3.15E-06	0.202745	0.385457	1.470287
3.72	0.2644	-0.00162	3.15E-06	0.202678	0.385332	1.470102
3.72	0.2644	-0.00162	3.15E-06	0.202613	0.385207	1.469918
3.73	0.2644	-0.00162	3.15E-06	0.202547	0.385082	1.469735
3.73	0.2644	-0.00162	3.15E-06	0.202482	0.384958	1.469553
3.73	0.2644	-0.00162	3.15E-06	0.202417	0.384834	1.469371
3.73	0.2644	-0.00162	3.15E-06	0.202352	0.384711	1.46919
3.73	0.2644	-0.00162	3.15E-06	0.202288	0.384589	1.46901
3.73	0.2644	-0.00162	3.15E-06	0.202223	0.384466	1.46883
3.73	0.2644	-0.00162	3.15E-06	0.202159	0.384345	1.468652
3.73	0.2644	-0.00162	3.15E-06	0.202095	0.384223	1.468473
3.73	0.2644	-0.00162	3.15E-06	0.202032	0.384103	1.468296
3.74	0.2644	-0.00162	3.15E-06	0.201969	0.383982	1.468119
3.74	0.2644	-0.00162	3.15E-06	0.201906	0.383862	1.467943
3.74	0.2644	-0.00162	3.15E-06	0.201843	0.383743	1.467768
3.74	0.2644	-0.00162	3.15E-06	0.20178	0.383624	1.467593
3.74	0.2644	-0.00162	3.15E-06	0.201718	0.383505	1.467419
3.74	0.2644	-0.00162	3.15E-06	0.201656	0.383387	1.467246
3.74	0.2644	-0.00162	3.15E-06	0.201594	0.383269	1.467073
3.74	0.2644	-0.00162	3.15E-06	0.201532	0.383152	1.466901
3.74	0.2644	-0.00162	3.15E-06	0.201471	0.383035	1.46673
3.75	0.2644	-0.00162	3.15E-06	0.201409	0.382919	1.466559
3.75	0.2644	-0.00162	3.15E-06	0.201348	0.382803	1.466389
3.75	0.2644	-0.00162	3.15E-06	0.201287	0.382687	1.466219
3.75	0.2644	-0.00162	3.15E-06	0.201227	0.382572	1.46605
3.75	0.2644	-0.00162	3.15E-06	0.201166	0.382457	1.465882
3.75	0.2644	-0.00162	3.15E-06	0.201106	0.382343	1.465714
3.75	0.2644	-0.00162	3.15E-06	0.201046	0.382229	1.465547
3.75	0.2644	-0.00162	3.15E-06	0.200987	0.382115	1.465381
3.75	0.2644	-0.00162	3.15E-06	0.200927	0.382002	1.465215
3.76	0.2644	-0.00162	3.15E-06	0.200868	0.381889	1.46505
3.76	0.2644	-0.00162	3.15E-06	0.200809	0.381777	1.464885
3.76	0.2644	-0.00162	3.15E-06	0.20075	0.381665	1.464721
3.76	0.2644	-0.00162	3.15E-06	0.200691	0.381553	1.464558
3.76	0.2644	-0.00162	3.15E-06	0.200633	0.381442	1.464395

3.76	0.2644	-0.00162	3.15E-06	0.200574	0.381331	1.464232
3.76	0.2644	-0.00162	3.15E-06	0.200516	0.381221	1.464071
3.76	0.2644	-0.00162	3.15E-06	0.200458	0.381111	1.463909
3.76	0.2644	-0.00162	3.15E-06	0.2004	0.381001	1.463749
3.76	0.2644	-0.00162	3.15E-06	0.200343	0.380891	1.463589
3.77	0.2644	-0.00162	3.15E-06	0.200286	0.380782	1.463429
3.77	0.2644	-0.00162	3.15E-06	0.200228	0.380674	1.46327
3.77	0.2644	-0.00162	3.15E-06	0.200171	0.380565	1.463112
3.77	0.2644	-0.00162	3.15E-06	0.200115	0.380457	1.462954
3.77	0.2644	-0.00162	3.15E-06	0.200058	0.38035	1.462796
3.77	0.2644	-0.00162	3.15E-06	0.200002	0.380243	1.462639
3.77	0.2644	-0.00162	3.15E-06	0.199945	0.380136	1.462483
3.77	0.2644	-0.00162	3.15E-06	0.199889	0.380029	1.462327
3.77	0.2644	-0.00162	3.15E-06	0.199834	0.379923	1.462172
3.77	0.2644	-0.00162	3.15E-06	0.199778	0.379817	1.462017
3.77	0.2644	-0.00162	3.15E-06	0.199722	0.379712	1.461863
3.78	0.2644	-0.00162	3.15E-06	0.199667	0.379606	1.461709
3.78	0.2644	-0.00162	3.15E-06	0.199612	0.379502	1.461556
3.78	0.2644	-0.00162	3.15E-06	0.199557	0.379397	1.461403
3.78	0.2644	-0.00162	3.15E-06	0.199502	0.379293	1.461251
3.78	0.2644	-0.00162	3.15E-06	0.199447	0.379189	1.461099
3.78	0.2644	-0.00162	3.15E-06	0.199393	0.379085	1.460948
3.78	0.2644	-0.00162	3.15E-06	0.199339	0.378982	1.460797
3.78	0.2644	-0.00162	3.15E-06	0.199285	0.378879	1.460647
3.78	0.2644	-0.00162	3.15E-06	0.199231	0.378777	1.460497
3.78	0.2644	-0.00162	3.15E-06	0.199177	0.378674	1.460348
3.79	0.2644	-0.00162	3.15E-06	0.199123	0.378573	1.460199
3.79	0.2644	-0.00162	3.15E-06	0.19907	0.378471	1.46005
3.79	0.2644	-0.00162	3.15E-06	0.199016	0.37837	1.459902
3.79	0.2644	-0.00162	3.15E-06	0.198963	0.378269	1.459755
3.79	0.2644	-0.00162	3.15E-06	0.19891	0.378168	1.459608
3.79	0.2644	-0.00162	3.15E-06	0.198858	0.378067	1.459461
3.79	0.2644	-0.00162	3.15E-06	0.198805	0.377967	1.459315
3.79	0.2644	-0.00162	3.15E-06	0.198752	0.377867	1.45917
3.79	0.2644	-0.00162	3.15E-06	0.1987	0.377768	1.459024
3.79	0.2644	-0.00162	3.15E-06	0.198648	0.377669	1.45888
3.79	0.2644	-0.00162	3.15E-06	0.198596	0.37757	1.458735
3.79	0.2644	-0.00162	3.15E-06	0.198544	0.377471	1.458591
3.80	0.2644	-0.00162	3.15E-06	0.198492	0.377373	1.458448
3.80	0.2644	-0.00162	3.15E-06	0.198441	0.377275	1.458305
3.80	0.2644	-0.00162	3.15E-06	0.198389	0.377177	1.458162
3.80	0.2644	-0.00162	3.15E-06	0.198338	0.37708	1.45802
3.80	0.2644	-0.00162	3.15E-06	0.198287	0.376982	1.457879
3.80	0.2644	-0.00162	3.15E-06	0.198236	0.376885	1.457737
3.80	0.2644	-0.00162	3.15E-06	0.198185	0.376789	1.457596
3.80	0.2644	-0.00162	3.15E-06	0.198134	0.376692	1.457456
3.80	0.2644	-0.00162	3.15E-06	0.198084	0.376596	1.457316
3.80	0.2644	-0.00162	3.15E-06	0.198033	0.376501	1.457176
3.80	0.2644	-0.00162	3.15E-06	0.197983	0.376405	1.457037
3.81	0.2644	-0.00162	3.15E-06	0.197933	0.37631	1.456898



3.81	0.2644	-0.00162	3.15E-06	0.197883	0.376215	1.45676
3.81	0.2644	-0.00162	3.15E-06	0.197833	0.37612	1.456622
3.81	0.2644	-0.00162	3.15E-06	0.197784	0.376025	1.456484
3.81	0.2644	-0.00162	3.15E-06	0.197734	0.375931	1.456347
3.81	0.2644	-0.00162	3.15E-06	0.197685	0.375837	1.45621
3.81	0.2644	-0.00162	3.15E-06	0.197635	0.375744	1.456074
3.81	0.2644	-0.00162	3.15E-06	0.197586	0.37565	1.455938
3.81	0.2644	-0.00162	3.15E-06	0.197537	0.375557	1.455802
3.81	0.2644	-0.00162	3.15E-06	0.197488	0.375464	1.455667
3.81	0.2644	-0.00162	3.15E-06	0.197439	0.375371	1.455532
3.81	0.2644	-0.00162	3.15E-06	0.197391	0.375279	1.455397
3.81	0.2644	-0.00162	3.15E-06	0.197342	0.375187	1.455263
3.82	0.2644	-0.00162	3.15E-06	0.197294	0.375095	1.45513
3.82	0.2644	-0.00162	3.15E-06	0.197246	0.375003	1.454996
3.82	0.2644	-0.00162	3.15E-06	0.197198	0.374912	1.454863
3.82	0.2644	-0.00162	3.15E-06	0.19715	0.374821	1.454731
3.82	0.2644	-0.00162	3.15E-06	0.197102	0.37473	1.454598
3.82	0.2644	-0.00162	3.15E-06	0.197054	0.374639	1.454466
3.82	0.2644	-0.00162	3.15E-06	0.197007	0.374549	1.454335
3.82	0.2644	-0.00162	3.15E-06	0.196959	0.374458	1.454204
3.82	0.2644	-0.00162	3.15E-06	0.196912	0.374369	1.454073
3.82	0.2644	-0.00162	3.15E-06	0.196865	0.374279	1.453942
3.82	0.2644	-0.00162	3.15E-06	0.196818	0.374189	1.453812
3.82	0.2644	-0.00162	3.15E-06	0.196771	0.3741	1.453683
3.82	0.2644	-0.00162	3.15E-06	0.196724	0.374011	1.453553
3.83	0.2644	-0.00162	3.15E-06	0.196677	0.373922	1.453424
3.83	0.2644	-0.00162	3.15E-06	0.196631	0.373834	1.453295
3.83	0.2644	-0.00162	3.15E-06	0.196584	0.373745	1.453167
3.83	0.2644	-0.00162	3.15E-06	0.196538	0.373657	1.453039
3.83	0.2644	-0.00162	3.15E-06	0.196492	0.373569	1.452911
3.83	0.2644	-0.00162	3.15E-06	0.196445	0.373482	1.452784
3.83	0.2644	-0.00162	3.15E-06	0.196399	0.373394	1.452657
3.83	0.2644	-0.00162	3.15E-06	0.196354	0.373307	1.45253
3.83	0.2644	-0.00162	3.15E-06	0.196308	0.37322	1.452404
3.83	0.2644	-0.00162	3.15E-06	0.196262	0.373133	1.452278
3.83	0.2644	-0.00162	3.15E-06	0.196217	0.373047	1.452152
3.83	0.2644	-0.00162	3.15E-06	0.196171	0.37296	1.452027
3.83	0.2644	-0.00162	3.15E-06	0.196126	0.372874	1.451902
3.84	0.2644	-0.00162	3.15E-06	0.196081	0.372788	1.451777
3.84	0.2644	-0.00162	3.15E-06	0.196036	0.372703	1.451653
3.84	0.2644	-0.00162	3.15E-06	0.195991	0.372617	1.451528
3.84	0.2644	-0.00162	3.15E-06	0.195946	0.372532	1.451405
3.84	0.2644	-0.00162	3.15E-06	0.195901	0.372447	1.451281
3.84	0.2644	-0.00162	3.15E-06	0.195857	0.372362	1.451158
3.84	0.2644	-0.00162	3.15E-06	0.195812	0.372277	1.451035
3.84	0.2644	-0.00162	3.15E-06	0.195768	0.372193	1.450913
3.84	0.2644	-0.00162	3.15E-06	0.195723	0.372109	1.450791
3.84	0.2644	-0.00162	3.15E-06	0.195679	0.372025	1.450669
3.84	0.2644	-0.00162	3.15E-06	0.195635	0.371941	1.450547
3.84	0.2644	-0.00162	3.15E-06	0.195591	0.371857	1.450426

3.84	0.2644	-0.00162	3.15E-06	0.195547	0.371774	1.450305
3.84	0.2644	-0.00162	3.15E-06	0.195503	0.371691	1.450184
3.85	0.2644	-0.00162	3.15E-06	0.19546	0.371607	1.450064
3.85	0.2644	-0.00162	3.15E-06	0.195416	0.371525	1.449944
3.85	0.2644	-0.00162	3.15E-06	0.195373	0.371442	1.449824
3.85	0.2644	-0.00162	3.15E-06	0.195329	0.37136	1.449704
3.85	0.2644	-0.00162	3.15E-06	0.195286	0.371277	1.449585
3.85	0.2644	-0.00162	3.15E-06	0.195243	0.371195	1.449466
3.85	0.2644	-0.00162	3.15E-06	0.1952	0.371113	1.449348
3.85	0.2644	-0.00162	3.15E-06	0.195157	0.371032	1.449229
3.85	0.2644	-0.00162	3.15E-06	0.195114	0.37095	1.449111
3.85	0.2644	-0.00162	3.15E-06	0.195071	0.370869	1.448993
3.85	0.2644	-0.00162	3.15E-06	0.195029	0.370788	1.448876
3.85	0.2644	-0.00162	3.15E-06	0.194986	0.370707	1.448759
3.85	0.2644	-0.00162	3.15E-06	0.194944	0.370626	1.448642
3.85	0.2644	-0.00162	3.15E-06	0.194901	0.370546	1.448525
3.86	0.2644	-0.00162	3.15E-06	0.194859	0.370466	1.448409
3.86	0.2644	-0.00162	3.15E-06	0.194817	0.370385	1.448293
3.86	0.2644	-0.00162	3.15E-06	0.194775	0.370305	1.448177
3.86	0.2644	-0.00162	3.15E-06	0.194733	0.370226	1.448061
3.86	0.2644	-0.00162	3.15E-06	0.194691	0.370146	1.447946
3.86	0.2644	-0.00162	3.15E-06	0.194649	0.370067	1.447831
3.86	0.2644	-0.00162	3.15E-06	0.194608	0.369987	1.447716
3.86	0.2644	-0.00162	3.15E-06	0.194566	0.369908	1.447602
3.86	0.2644	-0.00162	3.15E-06	0.194524	0.369829	1.447488
3.86	0.2644	-0.00162	3.15E-06	0.194483	0.369751	1.447374
3.86	0.2644	-0.00162	3.15E-06	0.194442	0.369672	1.44726
3.86	0.2644	-0.00162	3.15E-06	0.194401	0.369594	1.447147
3.86	0.2644	-0.00162	3.15E-06	0.194359	0.369516	1.447034
3.86	0.2644	-0.00162	3.15E-06	0.194318	0.369438	1.446921
3.86	0.2644	-0.00162	3.15E-06	0.194277	0.36936	1.446808
3.87	0.2644	-0.00162	3.15E-06	0.194237	0.369282	1.446696
3.87	0.2644	-0.00162	3.15E-06	0.194196	0.369205	1.446584
3.87	0.2644	-0.00162	3.15E-06	0.194155	0.369127	1.446472
3.87	0.2644	-0.00162	3.15E-06	0.194115	0.36905	1.44636
3.87	0.2644	-0.00162	3.15E-06	0.194074	0.368973	1.446249
3.87	0.2644	-0.00162	3.15E-06	0.194034	0.368896	1.446138
3.87	0.2644	-0.00162	3.15E-06	0.193993	0.36882	1.446027
3.87	0.2644	-0.00162	3.15E-06	0.193953	0.368743	1.445916
3.87	0.2644	-0.00162	3.15E-06	0.193913	0.368667	1.445806
3.87	0.2644	-0.00162	3.15E-06	0.193873	0.368591	1.445696
3.87	0.2644	-0.00162	3.15E-06	0.193833	0.368515	1.445586
3.87	0.2644	-0.00162	3.15E-06	0.193793	0.368439	1.445476
3.87	0.2644	-0.00162	3.15E-06	0.193753	0.368363	1.445367
3.87	0.2644	-0.00162	3.15E-06	0.193714	0.368288	1.445258
3.87	0.2644	-0.00162	3.15E-06	0.193674	0.368212	1.445149
3.87	0.2644	-0.00162	3.15E-06	0.193634	0.368137	1.44504
3.88	0.2644	-0.00162	3.15E-06	0.193595	0.368062	1.444932
3.88	0.2644	-0.00162	3.15E-06	0.193556	0.367987	1.444824
3.88	0.2644	-0.00162	3.15E-06	0.193516	0.367913	1.444716

3.88	0.2644	-0.00162	3.15E-06	0.193477	0.367838	1.444608
3.88	0.2644	-0.00162	3.15E-06	0.193438	0.367764	1.444501
3.88	0.2644	-0.00162	3.15E-06	0.193399	0.367689	1.444393
3.88	0.2644	-0.00162	3.15E-06	0.19336	0.367615	1.444286
3.88	0.2644	-0.00162	3.15E-06	0.193321	0.367541	1.44418
3.88	0.2644	-0.00162	3.15E-06	0.193282	0.367468	1.444073
3.88	0.2644	-0.00162	3.15E-06	0.193244	0.367394	1.443967
3.88	0.2644	-0.00162	3.15E-06	0.193205	0.367321	1.443861
3.88	0.2644	-0.00162	3.15E-06	0.193166	0.367247	1.443755
3.88	0.2644	-0.00162	3.15E-06	0.193128	0.367174	1.443649
3.88	0.2644	-0.00162	3.15E-06	0.193089	0.367101	1.443544
3.88	0.2644	-0.00162	3.15E-06	0.193051	0.367028	1.443439
3.88	0.2644	-0.00162	3.15E-06	0.193013	0.366955	1.443334
3.88	0.2644	-0.00162	3.15E-06	0.192975	0.366883	1.443229
3.89	0.2644	-0.00162	3.15E-06	0.192937	0.366811	1.443124
3.89	0.2644	-0.00162	3.15E-06	0.192899	0.366738	1.44302
3.89	0.2644	-0.00162	3.15E-06	0.192861	0.366666	1.442916
3.89	0.2644	-0.00162	3.15E-06	0.192823	0.366594	1.442812
3.89	0.2644	-0.00162	3.15E-06	0.192785	0.366522	1.442709
3.89	0.2644	-0.00162	3.15E-06	0.192747	0.366451	1.442605
3.89	0.2644	-0.00162	3.15E-06	0.19271	0.366379	1.442502
3.89	0.2644	-0.00162	3.15E-06	0.192672	0.366308	1.442399
3.89	0.2644	-0.00162	3.15E-06	0.192635	0.366236	1.442296
3.89	0.2644	-0.00162	3.15E-06	0.192597	0.366165	1.442194
3.89	0.2644	-0.00162	3.15E-06	0.19256	0.366094	1.442091
3.89	0.2644	-0.00162	3.15E-06	0.192523	0.366023	1.441989
3.89	0.2644	-0.00162	3.15E-06	0.192485	0.365953	1.441887
3.89	0.2644	-0.00162	3.15E-06	0.192448	0.365882	1.441785
3.89	0.2644	-0.00162	3.15E-06	0.192411	0.365812	1.441684
3.89	0.2644	-0.00162	3.15E-06	0.192374	0.365741	1.441582
3.89	0.2644	-0.00162	3.15E-06	0.192337	0.365671	1.441481
3.90	0.2644	-0.00162	3.15E-06	0.192301	0.365601	1.44138
3.90	0.2644	-0.00162	3.15E-06	0.192264	0.365531	1.44128
3.90	0.2644	-0.00162	3.15E-06	0.192227	0.365462	1.441179
3.90	0.2644	-0.00162	3.15E-06	0.19219	0.365392	1.441079
3.90	0.2644	-0.00162	3.15E-06	0.192154	0.365323	1.440979
3.90	0.2644	-0.00162	3.15E-06	0.192117	0.365253	1.440879
3.90	0.2644	-0.00162	3.15E-06	0.192081	0.365184	1.440779
3.90	0.2644	-0.00162	3.15E-06	0.192045	0.365115	1.44068
3.90	0.2644	-0.00162	3.15E-06	0.192008	0.365046	1.44058
3.90	0.2644	-0.00162	3.15E-06	0.191972	0.364977	1.440481
3.90	0.2644	-0.00162	3.15E-06	0.191936	0.364909	1.440382
3.90	0.2644	-0.00162	3.15E-06	0.1919	0.36484	1.440283
3.90	0.2644	-0.00162	3.15E-06	0.191864	0.364772	1.440185
3.90	0.2644	-0.00162	3.15E-06	0.191828	0.364703	1.440087
3.90	0.2644	-0.00162	3.15E-06	0.191792	0.364635	1.439988
3.90	0.2644	-0.00162	3.15E-06	0.191757	0.364567	1.43989
3.90	0.2644	-0.00162	3.15E-06	0.191721	0.364499	1.439793
3.90	0.2644	-0.00162	3.15E-06	0.191685	0.364431	1.439695
3.91	0.2644	-0.00162	3.15E-06	0.19165	0.364364	1.439598

3.91	0.2644	-0.00162	3.15E-06	0.191614	0.364296	1.439501
3.91	0.2644	-0.00162	3.15E-06	0.191579	0.364229	1.439404
3.91	0.2644	-0.00162	3.15E-06	0.191543	0.364162	1.439307
3.91	0.2644	-0.00162	3.15E-06	0.191508	0.364094	1.43921
3.91	0.2644	-0.00162	3.15E-06	0.191473	0.364027	1.439114
3.91	0.2644	-0.00162	3.15E-06	0.191438	0.36396	1.439017
3.91	0.2644	-0.00162	3.15E-06	0.191402	0.363894	1.438921
3.91	0.2644	-0.00162	3.15E-06	0.191367	0.363827	1.438825
3.91	0.2644	-0.00162	3.15E-06	0.191332	0.363761	1.43873
3.91	0.2644	-0.00162	3.15E-06	0.191297	0.363694	1.438634
3.91	0.2644	-0.00162	3.15E-06	0.191263	0.363628	1.438539
3.91	0.2644	-0.00162	3.15E-06	0.191228	0.363562	1.438444
3.91	0.2644	-0.00162	3.15E-06	0.191193	0.363496	1.438349
3.91	0.2644	-0.00162	3.15E-06	0.191158	0.36343	1.438254
3.91	0.2644	-0.00162	3.15E-06	0.191124	0.363364	1.438159
3.91	0.2644	-0.00162	3.15E-06	0.191089	0.363298	1.438065
3.91	0.2644	-0.00162	3.15E-06	0.191055	0.363233	1.43797
3.92	0.2644	-0.00162	3.15E-06	0.19102	0.363167	1.437876
3.92	0.2644	-0.00162	3.15E-06	0.190986	0.363102	1.437782
3.92	0.2644	-0.00162	3.15E-06	0.190952	0.363037	1.437689
3.92	0.2644	-0.00162	3.15E-06	0.190917	0.362972	1.437595
3.92	0.2644	-0.00162	3.15E-06	0.190883	0.362907	1.437502
3.92	0.2644	-0.00162	3.15E-06	0.190849	0.362842	1.437408
3.92	0.2644	-0.00162	3.15E-06	0.190815	0.362777	1.437315
3.92	0.2644	-0.00162	3.15E-06	0.190781	0.362712	1.437222
3.92	0.2644	-0.00162	3.15E-06	0.190747	0.362648	1.43713
3.92	0.2644	-0.00162	3.15E-06	0.190713	0.362583	1.437037
3.92	0.2644	-0.00162	3.15E-06	0.190679	0.362519	1.436945
3.92	0.2644	-0.00162	3.15E-06	0.190646	0.362455	1.436852
3.92	0.2644	-0.00162	3.15E-06	0.190612	0.362391	1.43676
3.92	0.2644	-0.00162	3.15E-06	0.190578	0.362327	1.436668
3.92	0.2644	-0.00162	3.15E-06	0.190545	0.362263	1.436577
3.92	0.2644	-0.00162	3.15E-06	0.190511	0.362199	1.436485
3.92	0.2644	-0.00162	3.15E-06	0.190478	0.362136	1.436394
3.92	0.2644	-0.00162	3.15E-06	0.190444	0.362072	1.436303
3.92	0.2644	-0.00162	3.15E-06	0.190411	0.362009	1.436212
3.92	0.2644	-0.00162	3.15E-06	0.190378	0.361945	1.436121
3.93	0.2644	-0.00162	3.15E-06	0.190344	0.361882	1.43603
3.93	0.2644	-0.00162	3.15E-06	0.190311	0.361819	1.435939
3.93	0.2644	-0.00162	3.15E-06	0.190278	0.361756	1.435849
3.93	0.2644	-0.00162	3.15E-06	0.190245	0.361693	1.435759
3.93	0.2644	-0.00162	3.15E-06	0.190212	0.361631	1.435669
3.93	0.2644	-0.00162	3.15E-06	0.190179	0.361568	1.435579
3.93	0.2644	-0.00162	3.15E-06	0.190146	0.361505	1.435489
3.93	0.2644	-0.00162	3.15E-06	0.190113	0.361443	1.435399
3.93	0.2644	-0.00162	3.15E-06	0.190081	0.361381	1.43531
3.93	0.2644	-0.00162	3.15E-06	0.190048	0.361318	1.43522
3.93	0.2644	-0.00162	3.15E-06	0.190015	0.361256	1.435131
3.93	0.2644	-0.00162	3.15E-06	0.189983	0.361194	1.435042
3.93	0.2644	-0.00162	3.15E-06	0.18995	0.361132	1.434954

3.93	0.2644	-0.00162	3.15E-06	0.189917	0.361071	1.434865
3.93	0.2644	-0.00162	3.15E-06	0.189885	0.361009	1.434776
3.93	0.2644	-0.00162	3.15E-06	0.189853	0.360947	1.434688
3.93	0.2644	-0.00162	3.15E-06	0.18982	0.360886	1.4346
3.93	0.2644	-0.00162	3.15E-06	0.189788	0.360824	1.434512
3.93	0.2644	-0.00162	3.15E-06	0.189756	0.360763	1.434424
3.93	0.2644	-0.00162	3.15E-06	0.189724	0.360702	1.434336
3.94	0.2644	-0.00162	3.15E-06	0.189691	0.360641	1.434248
3.94	0.2644	-0.00162	3.15E-06	0.189659	0.36058	1.434161
3.94	0.2644	-0.00162	3.15E-06	0.189627	0.360519	1.434074
3.94	0.2644	-0.00162	3.15E-06	0.189595	0.360458	1.433986
3.94	0.2644	-0.00162	3.15E-06	0.189563	0.360398	1.433899
3.94	0.2644	-0.00162	3.15E-06	0.189532	0.360337	1.433813
3.94	0.2644	-0.00162	3.15E-06	0.1895	0.360277	1.433726
3.94	0.2644	-0.00162	3.15E-06	0.189468	0.360216	1.433639
3.94	0.2644	-0.00162	3.15E-06	0.189436	0.360156	1.433553
3.94	0.2644	-0.00162	3.15E-06	0.189405	0.360096	1.433467
3.94	0.2644	-0.00162	3.15E-06	0.189373	0.360036	1.43338
3.94	0.2644	-0.00162	3.15E-06	0.189342	0.359976	1.433294
3.94	0.2644	-0.00162	3.15E-06	0.18931	0.359916	1.433209
3.94	0.2644	-0.00162	3.15E-06	0.189279	0.359856	1.433123
3.94	0.2644	-0.00162	3.15E-06	0.189247	0.359796	1.433037
3.94	0.2644	-0.00162	3.15E-06	0.189216	0.359737	1.432952
3.94	0.2644	-0.00162	3.15E-06	0.189184	0.359677	1.432867
3.94	0.2644	-0.00162	3.15E-06	0.189153	0.359618	1.432782
3.94	0.2644	-0.00162	3.15E-06	0.189122	0.359558	1.432697
3.94	0.2644	-0.00162	3.15E-06	0.189091	0.359499	1.432612
3.94	0.2644	-0.00162	3.15E-06	0.18906	0.35944	1.432527
3.95	0.2644	-0.00162	3.15E-06	0.189029	0.359381	1.432442
3.95	0.2644	-0.00162	3.15E-06	0.188998	0.359322	1.432358
3.95	0.2644	-0.00162	3.15E-06	0.188967	0.359263	1.432274
3.95	0.2644	-0.00162	3.15E-06	0.188936	0.359204	1.43219
3.95	0.2644	-0.00162	3.15E-06	0.188905	0.359146	1.432105
3.95	0.2644	-0.00162	3.15E-06	0.188874	0.359087	1.432022
3.95	0.2644	-0.00162	3.15E-06	0.188843	0.359029	1.431938
3.95	0.2644	-0.00162	3.15E-06	0.188813	0.35897	1.431854
3.95	0.2644	-0.00162	3.15E-06	0.188782	0.358912	1.431771
3.95	0.2644	-0.00162	3.15E-06	0.188751	0.358854	1.431687
3.95	0.2644	-0.00162	3.15E-06	0.188721	0.358796	1.431604
3.95	0.2644	-0.00162	3.15E-06	0.18869	0.358738	1.431521
3.95	0.2644	-0.00162	3.15E-06	0.18866	0.35868	1.431438
3.95	0.2644	-0.00162	3.15E-06	0.188629	0.358622	1.431355
3.95	0.2644	-0.00162	3.15E-06	0.188599	0.358564	1.431273
3.95	0.2644	-0.00162	3.15E-06	0.188569	0.358506	1.43119
3.95	0.2644	-0.00162	3.15E-06	0.188538	0.358449	1.431108
3.95	0.2644	-0.00162	3.15E-06	0.188508	0.358391	1.431026
3.95	0.2644	-0.00162	3.15E-06	0.188478	0.358334	1.430943
3.95	0.2644	-0.00162	3.15E-06	0.188448	0.358277	1.430861
3.95	0.2644	-0.00162	3.15E-06	0.188418	0.358219	1.43078
3.95	0.2644	-0.00162	3.15E-06	0.188388	0.358162	1.430698

3.96	0.2644	-0.00162	3.15E-06	0.188358	0.358105	1.430616
3.96	0.2644	-0.00162	3.15E-06	0.188328	0.358048	1.430535
3.96	0.2644	-0.00162	3.15E-06	0.188298	0.357991	1.430453
3.96	0.2644	-0.00162	3.15E-06	0.188268	0.357935	1.430372
3.96	0.2644	-0.00162	3.15E-06	0.188238	0.357878	1.430291
3.96	0.2644	-0.00162	3.15E-06	0.188208	0.357821	1.43021
3.96	0.2644	-0.00162	3.15E-06	0.188179	0.357765	1.430129
3.96	0.2644	-0.00162	3.15E-06	0.188149	0.357708	1.430049
3.96	0.2644	-0.00162	3.15E-06	0.188119	0.357652	1.429968
3.96	0.2644	-0.00162	3.15E-06	0.18809	0.357596	1.429887
3.96	0.2644	-0.00162	3.15E-06	0.18806	0.35754	1.429807
3.96	0.2644	-0.00162	3.15E-06	0.188031	0.357483	1.429727
3.96	0.2644	-0.00162	3.15E-06	0.188001	0.357427	1.429647
3.96	0.2644	-0.00162	3.15E-06	0.187972	0.357372	1.429567
3.96	0.2644	-0.00162	3.15E-06	0.187942	0.357316	1.429487
3.96	0.2644	-0.00162	3.15E-06	0.187913	0.35726	1.429407
3.96	0.2644	-0.00162	3.15E-06	0.187884	0.357204	1.429328
3.96	0.2644	-0.00162	3.15E-06	0.187855	0.357149	1.429248
3.96	0.2644	-0.00162	3.15E-06	0.187825	0.357093	1.429169
3.96	0.2644	-0.00162	3.15E-06	0.187796	0.357038	1.42909
3.96	0.2644	-0.00162	3.15E-06	0.187767	0.356982	1.429011
3.96	0.2644	-0.00162	3.15E-06	0.187738	0.356927	1.428932
3.96	0.2644	-0.00162	3.15E-06	0.187709	0.356872	1.428853
3.97	0.2644	-0.00162	3.15E-06	0.18768	0.356817	1.428774
3.97	0.2644	-0.00162	3.15E-06	0.187651	0.356762	1.428695
3.97	0.2644	-0.00162	3.15E-06	0.187622	0.356707	1.428617
3.97	0.2644	-0.00162	3.15E-06	0.187593	0.356652	1.428538
3.97	0.2644	-0.00162	3.15E-06	0.187564	0.356597	1.42846
3.97	0.2644	-0.00162	3.15E-06	0.187536	0.356542	1.428382
3.97	0.2644	-0.00162	3.15E-06	0.187507	0.356488	1.428304
3.97	0.2644	-0.00162	3.15E-06	0.187478	0.356433	1.428226
3.97	0.2644	-0.00162	3.15E-06	0.18745	0.356379	1.428148
3.97	0.2644	-0.00162	3.15E-06	0.187421	0.356324	1.42807
3.97	0.2644	-0.00162	3.15E-06	0.187392	0.35627	1.427993
3.97	0.2644	-0.00162	3.15E-06	0.187364	0.356216	1.427915
3.97	0.2644	-0.00162	3.15E-06	0.187335	0.356161	1.427838

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

**Job Title Aldi, Skelmersdale**

**Storm Water Flood Model**

M5-60 = 20                      r = 0.4                      Return, T = 100                      Area (m<sup>2</sup>) = 11000  
 CC Factor = 0.3                      Limit (l/s) = 60  
**Totals**                      **247**                      **365**

D (mins)	M5-D (mm)	MT-D (mm)	Rate (mm/hr)	Flow (l/s)	CC Flow (l/s)	Storage (m <sup>3</sup> )	CC Storage (m <sup>3</sup> )
10.00	10.59	20.48	122.88	373.05	484.97	187.83	254.98
15.00	12.59	24.67	98.68	299.59	389.47	215.64	296.53
20.00	14.06	27.82	83.46	253.40	329.42	232.08	323.30
25.00	15.22	30.32	72.77	220.93	287.21	241.40	340.82
30.00	16.18	32.39	64.79	196.70	255.71	246.06	352.28
35.00	17.01	34.17	58.57	177.83	231.18	247.45	359.48
40.00	17.73	35.72	53.58	162.67	211.47	246.40	363.52
45.00	18.38	37.10	49.47	150.18	195.23	243.48	365.12
50.00	18.97	38.34	46.01	139.69	181.59	239.06	364.77
55.00	19.50	39.47	43.06	130.73	169.95	233.41	362.84
60.00	20.00	40.51	40.51	122.99	159.88	226.75	359.58
65.00	20.46	41.47	38.28	116.21	151.08	219.23	355.20
70.00	20.89	42.36	36.31	110.23	143.30	210.97	349.87
75.00	21.30	43.19	34.55	104.91	136.38	202.07	343.70
80.00	21.68	43.97	32.98	100.13	130.17	192.61	336.80
85.00	22.05	44.71	31.56	95.81	124.56	182.66	329.25
90.00	22.39	45.40	30.27	91.90	119.47	172.26	321.13
95.00	22.72	46.06	29.09	88.33	114.82	161.46	312.50
100.00	23.04	46.69	28.01	85.05	110.57	150.30	303.40
105.00	23.34	47.29	27.02	82.04	106.65	138.83	293.87
110.00	23.63	47.86	26.10	79.25	103.02	127.05	283.96
115.00	23.92	48.40	25.25	76.67	99.67	115.00	273.70
120.00	24.19	48.92	24.46	74.26	96.54	102.71	263.12
125.00	24.45	49.42	23.72	72.02	93.63	90.18	252.23
130.00	24.70	49.90	23.03	69.93	90.91	77.44	241.07
135.00	24.95	50.37	22.39	67.96	88.35	64.50	229.65
140.00	25.18	50.81	21.78	66.12	85.95	51.38	217.99
145.00	25.41	51.24	21.20	64.38	83.69	38.08	206.11
150.00	25.64	51.66	20.66	62.74	81.56	24.63	194.02
155.00	25.86	52.06	20.15	61.18	79.54	11.02	181.73
160.00	26.07	52.45	19.67	59.72	77.63	-2.73	169.25
165.00	26.28	52.83	19.21	58.32	75.82	-16.61	156.60
170.00	26.48	53.19	18.77	57.00	74.10	-30.62	143.79
175.00	26.68	53.55	18.36	55.74	72.46	-44.75	130.82
180.00	26.87	53.89	17.96	54.54	70.90	-59.00	117.70
185.00	27.06	54.22	17.59	53.39	69.41	-73.35	104.45
190.00	27.24	54.55	17.23	52.30	67.99	-87.80	91.06
195.00	27.43	54.86	16.88	51.25	66.63	-102.35	77.54
200.00	27.60	55.17	16.55	50.25	65.33	-116.99	63.91



205.00	27.78	55.47	16.24	49.29	64.08	-131.72	50.16
210.00	27.95	55.76	15.93	48.37	62.88	-146.54	36.30
215.00	28.11	56.05	15.64	47.49	61.73	-161.43	22.34
220.00	28.28	56.32	15.36	46.64	60.63	-176.41	8.27
225.00	28.44	56.59	15.09	45.82	59.56	-191.45	-5.89
230.00	28.60	56.86	14.83	45.03	58.54	-206.57	-20.14
235.00	28.75	57.12	14.58	44.27	57.55	-221.75	-34.48
240.00	28.91	57.37	14.34	43.54	56.60	-237.00	-48.90
245.00	29.06	57.61	14.11	42.84	55.69	-252.32	-63.41
250.00	29.20	57.85	13.88	42.15	54.80	-267.69	-78.00
255.00	29.35	58.09	13.67	41.50	53.94	-283.12	-92.66
260.00	29.49	58.32	13.46	40.86	53.12	-298.61	-107.39
265.00	29.63	58.54	13.26	40.24	52.32	-314.15	-122.19
270.00	29.77	58.76	13.06	39.65	51.54	-329.74	-137.06
275.00	29.91	58.98	12.87	39.07	50.79	-345.38	-152.00
280.00	30.05	59.19	12.68	38.51	50.06	-361.07	-166.99
285.00	30.18	59.40	12.50	37.96	49.35	-376.81	-182.05
290.00	30.31	59.60	12.33	37.44	48.67	-392.59	-197.17
295.00	30.44	59.80	12.16	36.93	48.00	-408.42	-212.35
300.00	30.57	59.99	12.00	36.43	47.36	-424.29	-227.58
305.00	30.69	60.19	11.84	35.95	46.73	-440.20	-242.86
310.00	30.82	60.37	11.69	35.48	46.12	-456.15	-258.20
315.00	30.94	60.56	11.53	35.02	45.52	-472.14	-273.58
320.00	31.06	60.95	11.43	34.70	45.11	-485.80	-285.94
325.00	31.18	61.16	11.29	34.28	44.56	-501.59	-301.06
330.00	31.30	61.36	11.16	33.87	44.03	-517.40	-316.21
335.00	31.42	61.55	11.02	33.47	43.51	-533.23	-331.41
340.00	31.53	61.75	10.90	33.08	43.01	-549.10	-346.63
345.00	31.65	61.94	10.77	32.71	42.52	-564.99	-361.89
350.00	31.76	62.13	10.65	32.34	42.04	-580.91	-377.19
355.00	31.87	62.32	10.53	31.98	41.57	-596.86	-392.52
360.00	31.98	62.51	10.42	31.63	41.12	-612.83	-407.87
365.00	32.09	62.69	10.31	31.29	40.67	-628.82	-423.27
370.00	32.20	62.87	10.20	30.95	40.24	-644.84	-438.69
375.00	32.31	63.05	10.09	30.63	39.82	-660.88	-454.14
380.00	32.42	63.23	9.98	30.31	39.40	-676.94	-469.62
385.00	32.52	63.40	9.88	30.00	39.00	-693.02	-485.13
390.00	32.62	63.58	9.78	29.70	38.60	-709.12	-500.66
395.00	32.73	63.75	9.68	29.40	38.22	-725.25	-516.22
400.00	32.83	63.92	9.59	29.11	37.84	-741.39	-531.81
405.00	32.93	64.09	9.49	28.82	37.47	-757.56	-547.43
410.00	33.03	64.25	9.40	28.55	37.11	-773.74	-563.07
415.00	33.13	64.42	9.31	28.28	36.76	-789.95	-578.73
420.00	33.23	64.58	9.23	28.01	36.41	-806.17	-594.42
425.00	33.32	64.74	9.14	27.75	36.07	-822.41	-610.13
430.00	33.42	64.90	9.06	27.49	35.74	-838.66	-625.86
435.00	33.51	65.06	8.97	27.24	35.42	-854.94	-641.62
440.00	33.61	65.21	8.89	27.00	35.10	-871.23	-657.40
445.00	33.70	65.37	8.81	26.76	34.79	-887.53	-673.20
450.00	33.80	65.52	8.74	26.52	34.48	-903.86	-689.02

455.00	33.89	65.68	8.66	26.29	34.18	-920.20	-704.86
460.00	33.98	65.83	8.59	26.07	33.89	-936.55	-720.72
465.00	34.07	65.97	8.51	25.85	33.60	-952.92	-736.60
470.00	34.16	66.12	8.44	25.63	33.32	-969.31	-752.50
475.00	34.25	66.27	8.37	25.41	33.04	-985.71	-768.42
480.00	34.34	66.41	8.30	25.20	32.77	-1002.12	-784.36
485.00	34.42	66.56	8.23	25.00	32.50	-1018.55	-800.31
490.00	34.51	66.70	8.17	24.80	32.24	-1034.99	-816.29
495.00	34.60	66.84	8.10	24.60	31.98	-1051.45	-832.28
500.00	34.68	66.98	8.04	24.40	31.72	-1067.91	-848.29
505.00	34.77	67.12	7.97	24.21	31.47	-1084.40	-864.31
510.00	34.85	67.26	7.91	24.02	31.23	-1100.89	-880.36
515.00	34.93	67.40	7.85	23.84	30.99	-1117.40	-896.42
520.00	35.02	67.53	7.79	23.66	30.75	-1133.92	-912.49
525.00	35.10	67.67	7.73	23.48	30.52	-1150.45	-928.58
530.00	35.18	67.80	7.68	23.30	30.29	-1166.99	-944.69
535.00	35.26	67.93	7.62	23.13	30.07	-1183.54	-960.81
540.00	35.34	68.06	7.56	22.96	29.85	-1200.11	-976.94
545.00	35.42	68.19	7.51	22.79	29.63	-1216.69	-993.09
550.00	35.50	68.32	7.45	22.63	29.42	-1233.28	-1009.26
555.00	35.58	68.45	7.40	22.47	29.21	-1249.88	-1025.44
560.00	35.66	68.58	7.35	22.31	29.00	-1266.49	-1041.63
565.00	35.74	68.70	7.30	22.15	28.80	-1283.11	-1057.84
570.00	35.81	68.83	7.25	22.00	28.59	-1299.74	-1074.06
575.00	35.89	68.95	7.20	21.84	28.40	-1316.38	-1090.29
580.00	35.97	69.08	7.15	21.69	28.20	-1333.03	-1106.54
585.00	36.04	69.20	7.10	21.55	28.01	-1349.69	-1122.80
590.00	36.12	69.32	7.05	21.40	27.82	-1366.36	-1139.07
595.00	36.19	69.44	7.00	21.26	27.64	-1383.04	-1155.36
600.00	36.27	69.56	6.96	21.12	27.45	-1399.73	-1171.65
605.00	36.34	69.68	6.91	20.98	27.27	-1416.43	-1187.96
610.00	36.41	69.80	6.87	20.84	27.10	-1433.14	-1204.28
615.00	36.48	69.91	6.82	20.71	26.92	-1449.86	-1220.62
620.00	36.56	70.03	6.78	20.58	26.75	-1466.58	-1236.96
625.00	36.63	70.15	6.73	20.44	26.58	-1483.32	-1253.31
630.00	36.70	70.26	6.69	20.32	26.41	-1500.06	-1269.68
635.00	36.77	70.38	6.65	20.19	26.25	-1516.81	-1286.06
640.00	36.84	70.49	6.61	20.06	26.08	-1533.57	-1302.45
645.00	36.91	70.60	6.57	19.94	25.92	-1550.34	-1318.85
650.00	36.98	70.71	6.53	19.82	25.76	-1567.12	-1335.26
655.00	37.05	70.83	6.49	19.70	25.61	-1583.90	-1351.68
660.00	37.12	70.94	6.45	19.58	25.45	-1600.70	-1368.11
665.00	37.19	71.05	6.41	19.46	25.30	-1617.50	-1384.55
670.00	37.26	71.15	6.37	19.35	25.15	-1634.30	-1401.00
675.00	37.32	71.26	6.33	19.23	25.00	-1651.12	-1417.46
680.00	37.39	71.37	6.30	19.12	24.85	-1667.94	-1433.93
685.00	37.46	71.48	6.26	19.01	24.71	-1684.77	-1450.41
690.00	37.52	71.58	6.22	18.90	24.57	-1701.61	-1466.89
695.00	37.59	71.69	6.19	18.79	24.43	-1718.46	-1483.39
700.00	37.66	71.80	6.15	18.68	24.29	-1735.31	-1499.90

705.00	37.72	71.90	6.12	18.58	24.15	-1752.17	-1516.42
710.00	37.79	72.00	6.08	18.47	24.02	-1769.03	-1532.94
715.00	37.85	72.11	6.05	18.37	23.88	-1785.90	-1549.48
720.00	37.91	72.21	6.02	18.27	23.75	-1802.78	-1566.02
725.00	37.98	72.31	5.98	18.17	23.62	-1819.67	-1582.57
730.00	38.04	72.41	5.95	18.07	23.49	-1836.56	-1599.13
735.00	38.11	72.51	5.92	17.97	23.36	-1853.46	-1615.70
740.00	38.17	72.61	5.89	17.87	23.24	-1870.37	-1632.27
745.00	38.23	72.71	5.86	17.78	23.11	-1887.28	-1648.86
750.00	38.29	72.81	5.82	17.68	22.99	-1904.19	-1665.45
755.00	38.36	72.91	5.79	17.59	22.87	-1921.12	-1682.05
760.00	38.42	73.01	5.76	17.50	22.75	-1938.05	-1698.66
765.00	38.48	73.11	5.73	17.41	22.63	-1954.98	-1715.28
770.00	38.54	73.20	5.70	17.32	22.51	-1971.93	-1731.90
775.00	38.60	73.30	5.67	17.23	22.40	-1988.87	-1748.53
780.00	38.66	73.39	5.65	17.14	22.28	-2005.83	-1765.17
785.00	38.72	73.49	5.62	17.05	22.17	-2022.78	-1781.82
790.00	38.78	73.58	5.59	16.97	22.06	-2039.75	-1798.47
795.00	38.84	73.68	5.56	16.88	21.95	-2056.72	-1815.14
800.00	38.90	73.77	5.53	16.80	21.84	-2073.70	-1831.80
805.00	38.96	73.87	5.51	16.71	21.73	-2090.68	-1848.48
810.00	39.02	73.96	5.48	16.63	21.62	-2107.66	-1865.16
815.00	39.08	74.05	5.45	16.55	21.52	-2124.66	-1881.85
820.00	39.13	74.14	5.43	16.47	21.41	-2141.65	-1898.55
825.00	39.19	74.23	5.40	16.39	21.31	-2158.65	-1915.25
830.00	39.25	74.32	5.37	16.31	21.21	-2175.66	-1931.96
835.00	39.31	74.41	5.35	16.23	21.10	-2192.67	-1948.68
840.00	39.36	74.50	5.32	16.16	21.00	-2209.69	-1965.40
845.00	39.42	74.59	5.30	16.08	20.90	-2226.71	-1982.13
850.00	39.48	74.68	5.27	16.01	20.81	-2243.74	-1998.86
855.00	39.53	74.77	5.25	15.93	20.71	-2260.77	-2015.61
860.00	39.59	74.86	5.22	15.86	20.61	-2277.81	-2032.35
865.00	39.64	74.95	5.20	15.78	20.52	-2294.85	-2049.11
870.00	39.70	75.03	5.17	15.71	20.42	-2311.90	-2065.87
875.00	39.76	75.12	5.15	15.64	20.33	-2328.95	-2082.64
880.00	39.81	75.21	5.13	15.57	20.24	-2346.01	-2099.41
885.00	39.87	75.29	5.10	15.50	20.15	-2363.07	-2116.19
890.00	39.92	75.38	5.08	15.43	20.06	-2380.13	-2132.97
895.00	39.97	75.46	5.06	15.36	19.97	-2397.20	-2149.76
900.00	40.03	75.55	5.04	15.29	19.88	-2414.28	-2166.56
905.00	40.08	75.63	5.01	15.22	19.79	-2431.35	-2183.36
910.00	40.14	75.72	4.99	15.16	19.70	-2448.44	-2200.17
915.00	40.19	75.80	4.97	15.09	19.62	-2465.52	-2216.98
920.00	40.24	75.88	4.95	15.03	19.53	-2482.61	-2233.80
925.00	40.30	75.97	4.93	14.96	19.45	-2499.71	-2250.62
930.00	40.35	76.05	4.91	14.90	19.36	-2516.81	-2267.45
935.00	40.40	76.13	4.89	14.83	19.28	-2533.91	-2284.29
940.00	40.45	76.21	4.86	14.77	19.20	-2551.02	-2301.13
945.00	40.51	76.29	4.84	14.71	19.12	-2568.13	-2317.97
950.00	40.56	76.38	4.82	14.64	19.04	-2585.25	-2334.82

955.00	40.61	76.46	4.80	14.58	18.96	-2602.37	-2351.68
960.00	40.66	76.54	4.78	14.52	18.88	-2619.49	-2368.54
965.00	40.71	76.62	4.76	14.46	18.80	-2636.62	-2385.40
970.00	40.76	76.70	4.74	14.40	18.72	-2653.75	-2402.28
975.00	40.81	76.77	4.72	14.34	18.65	-2670.89	-2419.15
980.00	40.86	76.85	4.71	14.29	18.57	-2688.02	-2436.03
985.00	40.91	76.93	4.69	14.23	18.50	-2705.17	-2452.92
990.00	40.96	77.01	4.67	14.17	18.42	-2722.31	-2469.81
995.00	41.01	77.09	4.65	14.11	18.35	-2739.46	-2486.70
1000.00	41.06	77.17	4.63	14.06	18.27	-2756.62	-2503.60
1005.00	41.11	77.24	4.61	14.00	18.20	-2773.77	-2520.51
1010.00	41.16	77.32	4.59	13.94	18.13	-2790.94	-2537.42
1015.00	41.21	77.40	4.58	13.89	18.06	-2808.10	-2554.33
1020.00	41.26	77.47	4.56	13.84	17.99	-2825.27	-2571.25
1025.00	41.31	77.55	4.54	13.78	17.92	-2842.44	-2588.17
1030.00	41.36	77.62	4.52	13.73	17.85	-2859.61	-2605.10
1035.00	41.41	77.70	4.50	13.67	17.78	-2876.79	-2622.03
1040.00	41.46	77.77	4.49	13.62	17.71	-2893.97	-2638.97
1045.00	41.50	77.85	4.47	13.57	17.64	-2911.16	-2655.91
1050.00	41.55	77.92	4.45	13.52	17.57	-2928.35	-2672.85
1055.00	41.60	78.00	4.44	13.47	17.51	-2945.54	-2689.80
1060.00	41.65	78.07	4.42	13.42	17.44	-2962.73	-2706.75
1065.00	41.70	78.14	4.40	13.37	17.38	-2979.93	-2723.71
1070.00	41.74	78.22	4.39	13.32	17.31	-2997.13	-2740.67
1075.00	41.79	78.29	4.37	13.27	17.25	-3014.34	-2757.64
1080.00	41.84	78.36	4.35	13.22	17.18	-3031.54	-2774.61
1085.00	41.88	78.43	4.34	13.17	17.12	-3048.76	-2791.58
1090.00	41.93	78.51	4.32	13.12	17.06	-3065.97	-2808.56
1095.00	41.98	78.58	4.31	13.07	16.99	-3083.19	-2825.54
1100.00	42.02	78.65	4.29	13.02	16.93	-3100.41	-2842.53
1105.00	42.07	78.72	4.27	12.98	16.87	-3117.63	-2859.52
1110.00	42.12	78.79	4.26	12.93	16.81	-3134.86	-2876.51
1115.00	42.16	78.86	4.24	12.88	16.75	-3152.08	-2893.51
1120.00	42.21	78.93	4.23	12.84	16.69	-3169.32	-2910.51
1125.00	42.25	79.00	4.21	12.79	16.63	-3186.55	-2927.52
1130.00	42.30	79.07	4.20	12.75	16.57	-3203.79	-2944.53
1135.00	42.34	79.14	4.18	12.70	16.51	-3221.03	-2961.54
1140.00	42.39	79.21	4.17	12.66	16.45	-3238.27	-2978.55
1145.00	42.43	79.28	4.15	12.61	16.40	-3255.52	-2995.57
1150.00	42.48	79.35	4.14	12.57	16.34	-3272.77	-3012.60
1155.00	42.52	79.42	4.13	12.52	16.28	-3290.02	-3029.63
1160.00	42.57	79.48	4.11	12.48	16.23	-3307.27	-3046.66
1165.00	42.61	79.55	4.10	12.44	16.17	-3324.53	-3063.69
1170.00	42.66	79.62	4.08	12.40	16.11	-3341.79	-3080.73
1175.00	42.70	79.69	4.07	12.35	16.06	-3359.06	-3097.77
1180.00	42.74	79.75	4.06	12.31	16.01	-3376.32	-3114.82
1185.00	42.79	79.82	4.04	12.27	15.95	-3393.59	-3131.87
1190.00	42.83	79.89	4.03	12.23	15.90	-3410.86	-3148.92
1195.00	42.87	79.95	4.01	12.19	15.84	-3428.13	-3165.97
1200.00	42.92	80.02	4.00	12.15	15.79	-3445.41	-3183.03

1205.00	42.96	80.09	3.99	12.11	15.74	-3462.69	-3200.09
1210.00	43.00	80.15	3.97	12.07	15.69	-3479.97	-3217.16
1215.00	43.05	80.22	3.96	12.03	15.63	-3497.25	-3234.23
1220.00	43.09	80.28	3.95	11.99	15.58	-3514.54	-3251.30
1225.00	43.13	80.35	3.94	11.95	15.53	-3531.83	-3268.37
1230.00	43.17	80.41	3.92	11.91	15.48	-3549.12	-3285.45
1235.00	43.22	80.48	3.91	11.87	15.43	-3566.41	-3302.53
1240.00	43.26	80.54	3.90	11.83	15.38	-3583.71	-3319.62
1245.00	43.30	80.61	3.88	11.79	15.33	-3601.01	-3336.71
1250.00	43.34	80.67	3.87	11.76	15.28	-3618.31	-3353.80
1255.00	43.39	80.73	3.86	11.72	15.23	-3635.61	-3370.89
1260.00	43.43	80.80	3.85	11.68	15.19	-3652.92	-3387.99
1265.00	43.47	80.86	3.84	11.64	15.14	-3670.22	-3405.09
1270.00	43.51	80.92	3.82	11.61	15.09	-3687.53	-3422.19
1275.00	43.55	80.99	3.81	11.57	15.04	-3704.85	-3439.30
1280.00	43.59	81.05	3.80	11.53	14.99	-3722.16	-3456.41
1285.00	43.63	81.11	3.79	11.50	14.95	-3739.48	-3473.52
1290.00	43.67	81.17	3.78	11.46	14.90	-3756.80	-3490.64
1295.00	43.72	81.24	3.76	11.43	14.86	-3774.12	-3507.76
1300.00	43.76	81.30	3.75	11.39	14.81	-3791.44	-3524.88
1305.00	43.80	81.36	3.74	11.36	14.76	-3808.77	-3542.00
1310.00	43.84	81.42	3.73	11.32	14.72	-3826.10	-3559.13
1315.00	43.88	81.48	3.72	11.29	14.67	-3843.43	-3576.26
1320.00	43.92	81.54	3.71	11.25	14.63	-3860.76	-3593.39
1325.00	43.96	81.60	3.70	11.22	14.58	-3878.10	-3610.53
1330.00	44.00	81.67	3.68	11.19	14.54	-3895.43	-3627.66
1335.00	44.04	81.73	3.67	11.15	14.50	-3912.77	-3644.80
1340.00	44.08	81.79	3.66	11.12	14.45	-3930.11	-3661.95
1345.00	44.12	81.85	3.65	11.08	14.41	-3947.46	-3679.09
1350.00	44.16	81.91	3.64	11.05	14.37	-3964.80	-3696.24
1355.00	44.20	81.97	3.63	11.02	14.32	-3982.15	-3713.40
1360.00	44.24	82.02	3.62	10.99	14.28	-3999.50	-3730.55
1365.00	44.28	82.08	3.61	10.95	14.24	-4016.85	-3747.71
1370.00	44.31	82.14	3.60	10.92	14.20	-4034.20	-3764.87
1375.00	44.35	82.20	3.59	10.89	14.16	-4051.56	-3782.03
1380.00	44.39	82.26	3.58	10.86	14.12	-4068.92	-3799.19
1385.00	44.43	82.32	3.57	10.83	14.08	-4086.28	-3816.36
1390.00	44.47	82.38	3.56	10.80	14.03	-4103.64	-3833.53
1395.00	44.51	82.44	3.55	10.76	13.99	-4121.00	-3850.70
1400.00	44.55	82.49	3.54	10.73	13.95	-4138.37	-3867.88
1405.00	44.59	82.55	3.53	10.70	13.91	-4155.74	-3885.06
1410.00	44.62	82.61	3.52	10.67	13.87	-4173.11	-3902.24
1415.00	44.66	82.67	3.51	10.64	13.83	-4190.48	-3919.42
1420.00	44.70	82.72	3.50	10.61	13.80	-4207.85	-3936.61
1425.00	44.74	82.78	3.49	10.58	13.76	-4225.23	-3953.79
1430.00	44.78	82.84	3.48	10.55	13.72	-4242.60	-3970.98
1435.00	44.81	82.90	3.47	10.52	13.68	-4259.98	-3988.18
1440.00	44.85	82.95	3.46	10.49	13.64	-4277.36	-4005.37
1445.00	44.89	83.01	3.45	10.46	13.60	-4294.74	-4022.57
1450.00	44.93	83.07	3.44	10.44	13.57	-4312.13	-4039.77

1455.00	44.96	83.12	3.43	10.41	13.53	-4329.51	-4056.97
1460.00	45.00	83.18	3.42	10.38	13.49	-4346.90	-4074.17
1465.00	45.04	83.23	3.41	10.35	13.45	-4364.29	-4091.38
1470.00	45.07	83.29	3.40	10.32	13.42	-4381.68	-4108.59
1475.00	45.11	83.34	3.39	10.29	13.38	-4399.08	-4125.80
1480.00	45.15	83.40	3.38	10.26	13.34	-4416.47	-4143.01
1485.00	45.19	83.46	3.37	10.24	13.31	-4433.87	-4160.23
1490.00	45.22	83.51	3.36	10.21	13.27	-4451.27	-4177.45
1495.00	45.26	83.56	3.35	10.18	13.24	-4468.67	-4194.67
1500.00	45.29	83.62	3.34	10.15	13.20	-4486.07	-4211.89
1505.00	45.33	83.67	3.34	10.13	13.17	-4503.47	-4229.12
1510.00	45.37	83.73	3.33	10.10	13.13	-4520.88	-4246.34
1515.00	45.40	83.78	3.32	10.07	13.10	-4538.29	-4263.57
1520.00	45.44	83.84	3.31	10.05	13.06	-4555.69	-4280.80
1525.00	45.48	83.89	3.30	10.02	13.03	-4573.11	-4298.04
1530.00	45.51	83.94	3.29	9.99	12.99	-4590.52	-4315.27
1535.00	45.55	84.00	3.28	9.97	12.96	-4607.93	-4332.51
1540.00	45.58	84.05	3.27	9.94	12.92	-4625.35	-4349.75
1545.00	45.62	84.11	3.27	9.92	12.89	-4642.76	-4366.99
1550.00	45.65	84.16	3.26	9.89	12.86	-4660.18	-4384.24
1555.00	45.69	84.21	3.25	9.86	12.82	-4677.60	-4401.48
1560.00	45.73	84.26	3.24	9.84	12.79	-4695.02	-4418.73
1565.00	45.76	84.32	3.23	9.81	12.76	-4712.45	-4435.98
1570.00	45.80	84.37	3.22	9.79	12.73	-4729.87	-4453.23
1575.00	45.83	84.42	3.22	9.76	12.69	-4747.30	-4470.49
1580.00	45.87	84.47	3.21	9.74	12.66	-4764.73	-4487.74
1585.00	45.90	84.53	3.20	9.71	12.63	-4782.16	-4505.00
1590.00	45.94	84.58	3.19	9.69	12.60	-4799.59	-4522.26
1595.00	45.97	84.63	3.18	9.67	12.57	-4817.02	-4539.53
1600.00	46.01	84.68	3.18	9.64	12.53	-4834.45	-4556.79
1605.00	46.04	84.73	3.17	9.62	12.50	-4851.89	-4574.06
1610.00	46.08	84.79	3.16	9.59	12.47	-4869.33	-4591.33
1615.00	46.11	84.84	3.15	9.57	12.44	-4886.77	-4608.60
1620.00	46.14	84.89	3.14	9.55	12.41	-4904.21	-4625.87
1625.00	46.18	84.94	3.14	9.52	12.38	-4921.65	-4643.14
1630.00	46.21	84.99	3.13	9.50	12.35	-4939.09	-4660.42
1635.00	46.25	85.04	3.12	9.47	12.32	-4956.54	-4677.70
1640.00	46.28	85.09	3.11	9.45	12.29	-4973.98	-4694.98
1645.00	46.31	85.14	3.11	9.43	12.26	-4991.43	-4712.26
1650.00	46.35	85.19	3.10	9.41	12.23	-5008.88	-4729.54
1655.00	46.38	85.24	3.09	9.38	12.20	-5026.33	-4746.83
1660.00	46.42	85.29	3.08	9.36	12.17	-5043.78	-4764.11
1665.00	46.45	85.34	3.08	9.34	12.14	-5061.23	-4781.40
1670.00	46.48	85.39	3.07	9.31	12.11	-5078.69	-4798.69
1675.00	46.52	85.44	3.06	9.29	12.08	-5096.14	-4815.99
1680.00	46.55	85.49	3.05	9.27	12.05	-5113.60	-4833.28
1685.00	46.58	85.54	3.05	9.25	12.02	-5131.06	-4850.58
1690.00	46.62	85.59	3.04	9.23	11.99	-5148.52	-4867.88
1695.00	46.65	85.64	3.03	9.20	11.96	-5165.98	-4885.18
1700.00	46.68	85.69	3.02	9.18	11.94	-5183.44	-4902.48

1705.00	46.72	85.74	3.02	9.16	11.91	-5200.91	-4919.78
1710.00	46.75	85.79	3.01	9.14	11.88	-5218.37	-4937.09
1715.00	46.78	85.84	3.00	9.12	11.85	-5235.84	-4954.39
1720.00	46.82	85.89	3.00	9.10	11.82	-5253.31	-4971.70
1725.00	46.85	85.93	2.99	9.07	11.80	-5270.78	-4989.01
1730.00	46.88	85.98	2.98	9.05	11.77	-5288.25	-5006.33
1735.00	46.91	86.03	2.98	9.03	11.74	-5305.72	-5023.64
1740.00	46.95	86.08	2.97	9.01	11.71	-5323.20	-5040.95
1745.00	46.98	86.13	2.96	8.99	11.69	-5340.67	-5058.27
1750.00	47.01	86.17	2.95	8.97	11.66	-5358.15	-5075.59
1755.00	47.04	86.22	2.95	8.95	11.63	-5375.62	-5092.91
1760.00	47.08	86.27	2.94	8.93	11.61	-5393.10	-5110.23
1765.00	47.11	86.32	2.93	8.91	11.58	-5410.58	-5127.56
1770.00	47.14	86.37	2.93	8.89	11.55	-5428.06	-5144.88
1775.00	47.17	86.41	2.92	8.87	11.53	-5445.55	-5162.21
1780.00	47.20	86.46	2.91	8.85	11.50	-5463.03	-5179.54
1785.00	47.24	86.51	2.91	8.83	11.48	-5480.52	-5196.87
1790.00	47.27	86.55	2.90	8.81	11.45	-5498.00	-5214.20
1795.00	47.30	86.60	2.89	8.79	11.42	-5515.49	-5231.54
1800.00	47.33	86.65	2.89	8.77	11.40	-5532.98	-5248.87
1805.00	47.36	86.69	2.88	8.75	11.37	-5550.47	-5266.21
1810.00	47.39	86.74	2.88	8.73	11.35	-5567.96	-5283.55
1815.00	47.43	86.79	2.87	8.71	11.32	-5585.45	-5300.89
1820.00	47.46	86.83	2.86	8.69	11.30	-5602.94	-5318.23
1825.00	47.49	86.88	2.86	8.67	11.27	-5620.44	-5335.57
1830.00	47.52	86.93	2.85	8.65	11.25	-5637.93	-5352.91
1835.00	47.55	86.97	2.84	8.63	11.22	-5655.43	-5370.26
1840.00	47.58	87.02	2.84	8.61	11.20	-5672.93	-5387.61
1845.00	47.61	87.06	2.83	8.60	11.17	-5690.43	-5404.96
1850.00	47.64	87.11	2.83	8.58	11.15	-5707.93	-5422.31
1855.00	47.68	87.15	2.82	8.56	11.13	-5725.43	-5439.66
1860.00	47.71	87.20	2.81	8.54	11.10	-5742.93	-5457.01
1865.00	47.74	87.25	2.81	8.52	11.08	-5760.44	-5474.37
1870.00	47.77	87.29	2.80	8.50	11.05	-5777.94	-5491.73
1875.00	47.80	87.34	2.79	8.48	11.03	-5795.45	-5509.08
1880.00	47.83	87.38	2.79	8.47	11.01	-5812.96	-5526.44
1885.00	47.86	87.43	2.78	8.45	10.98	-5830.46	-5543.80
1890.00	47.89	87.47	2.78	8.43	10.96	-5847.97	-5561.17
1895.00	47.92	87.52	2.77	8.41	10.94	-5865.49	-5578.53
1900.00	47.95	87.56	2.77	8.39	10.91	-5883.00	-5595.90
1905.00	47.98	87.61	2.76	8.38	10.89	-5900.51	-5613.26
1910.00	48.01	87.65	2.75	8.36	10.87	-5918.02	-5630.63
1915.00	48.04	87.69	2.75	8.34	10.84	-5935.54	-5648.00
1920.00	48.07	87.74	2.74	8.32	10.82	-5953.06	-5665.37
1925.00	48.10	87.78	2.74	8.31	10.80	-5970.57	-5682.74
1930.00	48.13	87.83	2.73	8.29	10.78	-5988.09	-5700.12
1935.00	48.16	87.87	2.72	8.27	10.75	-6005.61	-5717.49
1940.00	48.19	87.91	2.72	8.25	10.73	-6023.13	-5734.87
1945.00	48.22	87.96	2.71	8.24	10.71	-6040.65	-5752.25
1950.00	48.25	88.00	2.71	8.22	10.69	-6058.18	-5769.63

1955.00	48.28	88.05	2.70	8.20	10.66	-6075.70	-5787.01
1960.00	48.31	88.09	2.70	8.19	10.64	-6093.22	-5804.39
1965.00	48.34	88.13	2.69	8.17	10.62	-6110.75	-5821.77
1970.00	48.37	88.18	2.69	8.15	10.60	-6128.28	-5839.16
1975.00	48.40	88.22	2.68	8.14	10.58	-6145.80	-5856.55
1980.00	48.43	88.26	2.67	8.12	10.56	-6163.33	-5873.93
1985.00	48.46	88.30	2.67	8.10	10.53	-6180.86	-5891.32
1990.00	48.49	88.35	2.66	8.09	10.51	-6198.39	-5908.71
1995.00	48.52	88.39	2.66	8.07	10.49	-6215.93	-5926.10
2000.00	48.55	88.43	2.65	8.05	10.47	-6233.46	-5943.50
2005.00	48.58	88.48	2.65	8.04	10.45	-6250.99	-5960.89
2010.00	48.61	88.52	2.64	8.02	10.43	-6268.53	-5978.29
2015.00	48.64	88.56	2.64	8.01	10.41	-6286.06	-5995.68
2020.00	48.66	88.60	2.63	7.99	10.39	-6303.60	-6013.08
2025.00	48.69	88.65	2.63	7.97	10.37	-6321.14	-6030.48
2030.00	48.72	88.69	2.62	7.96	10.35	-6338.68	-6047.88
2035.00	48.75	88.73	2.62	7.94	10.33	-6356.22	-6065.28
2040.00	48.78	88.77	2.61	7.93	10.30	-6373.76	-6082.68
2045.00	48.81	88.81	2.61	7.91	10.28	-6391.30	-6100.09
2050.00	48.84	88.86	2.60	7.90	10.26	-6408.84	-6117.49
2055.00	48.87	88.90	2.60	7.88	10.24	-6426.39	-6134.90
2060.00	48.89	88.94	2.59	7.86	10.22	-6443.93	-6152.31
2065.00	48.92	88.98	2.59	7.85	10.20	-6461.48	-6169.72
2070.00	48.95	89.02	2.58	7.83	10.18	-6479.02	-6187.13
2075.00	48.98	89.06	2.58	7.82	10.16	-6496.57	-6204.54
2080.00	49.01	89.11	2.57	7.80	10.14	-6514.12	-6221.95
2085.00	49.04	89.15	2.57	7.79	10.12	-6531.67	-6239.37
2090.00	49.07	89.19	2.56	7.77	10.11	-6549.22	-6256.78
2095.00	49.09	89.23	2.56	7.76	10.09	-6566.77	-6274.20
2100.00	49.12	89.27	2.55	7.74	10.07	-6584.32	-6291.62
2105.00	49.15	89.31	2.55	7.73	10.05	-6601.87	-6309.04
2110.00	49.18	89.35	2.54	7.71	10.03	-6619.43	-6326.46
2115.00	49.21	89.39	2.54	7.70	10.01	-6636.98	-6343.88
2120.00	49.23	89.43	2.53	7.68	9.99	-6654.54	-6361.30
2125.00	49.26	89.47	2.53	7.67	9.97	-6672.09	-6378.72
2130.00	49.29	89.51	2.52	7.66	9.95	-6689.65	-6396.15
2135.00	49.32	89.55	2.52	7.64	9.93	-6707.21	-6413.57
2140.00	49.35	89.59	2.51	7.63	9.91	-6724.77	-6431.00
2145.00	49.37	89.63	2.51	7.61	9.90	-6742.33	-6448.43
2150.00	49.40	89.67	2.50	7.60	9.88	-6759.89	-6465.86
2155.00	49.43	89.71	2.50	7.58	9.86	-6777.45	-6483.29
2160.00	49.46	89.75	2.49	7.57	9.84	-6795.02	-6500.72
2165.00	49.48	89.79	2.49	7.56	9.82	-6812.58	-6518.15
2170.00	49.51	89.83	2.48	7.54	9.80	-6830.14	-6535.59
2175.00	49.54	89.87	2.48	7.53	9.79	-6847.71	-6553.02
2180.00	49.57	89.91	2.47	7.51	9.77	-6865.28	-6570.46
2185.00	49.59	89.95	2.47	7.50	9.75	-6882.84	-6587.90
2190.00	49.62	89.99	2.47	7.49	9.73	-6900.41	-6605.33
2195.00	49.65	90.03	2.46	7.47	9.71	-6917.98	-6622.77
2200.00	49.68	90.07	2.46	7.46	9.70	-6935.55	-6640.21



2205.00	49.70	90.11	2.45	7.44	9.68	-6953.12	-6657.66
2210.00	49.73	90.15	2.45	7.43	9.66	-6970.69	-6675.10
2215.00	49.76	90.19	2.44	7.42	9.64	-6988.26	-6692.54
2220.00	49.78	90.23	2.44	7.40	9.62	-7005.84	-6709.99
2225.00	49.81	90.27	2.43	7.39	9.61	-7023.41	-6727.43
2230.00	49.84	90.31	2.43	7.38	9.59	-7040.98	-6744.88
2235.00	49.86	90.35	2.43	7.36	9.57	-7058.56	-6762.33
2240.00	49.89	90.38	2.42	7.35	9.56	-7076.14	-6779.78
2245.00	49.92	90.42	2.42	7.34	9.54	-7093.71	-6797.23
2250.00	49.94	90.46	2.41	7.32	9.52	-7111.29	-6814.68
2255.00	49.97	90.50	2.41	7.31	9.50	-7128.87	-6832.13
2260.00	50.00	90.54	2.40	7.30	9.49	-7146.45	-6849.58
2265.00	50.02	90.58	2.40	7.28	9.47	-7164.03	-6867.04
2270.00	50.05	90.62	2.40	7.27	9.45	-7181.61	-6884.49
2275.00	50.08	90.65	2.39	7.26	9.44	-7199.19	-6901.95
2280.00	50.10	90.69	2.39	7.25	9.42	-7216.78	-6919.41
2285.00	50.13	90.73	2.38	7.23	9.40	-7234.36	-6936.87
2290.00	50.16	90.77	2.38	7.22	9.39	-7251.94	-6954.33
2295.00	50.18	90.81	2.37	7.21	9.37	-7269.53	-6971.79
2300.00	50.21	90.84	2.37	7.19	9.35	-7287.11	-6989.25
2305.00	50.24	90.88	2.37	7.18	9.34	-7304.70	-7006.71
2310.00	50.26	90.92	2.36	7.17	9.32	-7322.29	-7024.18
2315.00	50.29	90.96	2.36	7.16	9.30	-7339.88	-7041.64
2320.00	50.31	90.99	2.35	7.14	9.29	-7357.47	-7059.11
2325.00	50.34	91.03	2.35	7.13	9.27	-7375.06	-7076.57
2330.00	50.37	91.07	2.35	7.12	9.26	-7392.65	-7094.04
2335.00	50.39	91.11	2.34	7.11	9.24	-7410.24	-7111.51
2340.00	50.42	91.14	2.34	7.10	9.22	-7427.83	-7128.98
2345.00	50.44	91.18	2.33	7.08	9.21	-7445.42	-7146.45
2350.00	50.47	91.22	2.33	7.07	9.19	-7463.01	-7163.92
2355.00	50.50	91.26	2.32	7.06	9.18	-7480.61	-7181.39
2360.00	50.52	91.29	2.32	7.05	9.16	-7498.20	-7198.87
2365.00	50.55	91.33	2.32	7.03	9.14	-7515.80	-7216.34
2370.00	50.57	91.37	2.31	7.02	9.13	-7533.40	-7233.81
2375.00	50.60	91.40	2.31	7.01	9.11	-7550.99	-7251.29
2380.00	50.62	91.44	2.31	7.00	9.10	-7568.59	-7268.77
2385.00	50.65	91.48	2.30	6.99	9.08	-7586.19	-7286.25
2390.00	50.68	91.51	2.30	6.97	9.07	-7603.79	-7303.73
2395.00	50.70	91.55	2.29	6.96	9.05	-7621.39	-7321.21
2400.00	50.73	91.59	2.29	6.95	9.04	-7638.99	-7338.69
2405.00	50.75	91.62	2.29	6.94	9.02	-7656.59	-7356.17
2410.00	50.78	91.66	2.28	6.93	9.01	-7674.19	-7373.65
2415.00	50.80	91.70	2.28	6.92	8.99	-7691.80	-7391.13
2420.00	50.83	91.73	2.27	6.90	8.98	-7709.40	-7408.62
2425.00	50.85	91.77	2.27	6.89	8.96	-7727.00	-7426.11
2430.00	50.88	91.80	2.27	6.88	8.95	-7744.61	-7443.59
2435.00	50.90	91.84	2.26	6.87	8.93	-7762.21	-7461.08
2440.00	50.93	91.88	2.26	6.86	8.92	-7779.82	-7478.57
2445.00	50.95	91.91	2.26	6.85	8.90	-7797.43	-7496.06
2450.00	50.98	91.95	2.25	6.84	8.89	-7815.04	-7513.55

2455.00	51.00	91.98	2.25	6.83	8.87	-7832.64	-7531.04
2460.00	51.03	92.02	2.24	6.81	8.86	-7850.25	-7548.53
2465.00	51.05	92.06	2.24	6.80	8.84	-7867.86	-7566.02
2470.00	51.08	92.09	2.24	6.79	8.83	-7885.47	-7583.52
2475.00	51.10	92.13	2.23	6.78	8.81	-7903.08	-7601.01
2480.00	51.13	92.16	2.23	6.77	8.80	-7920.70	-7618.51
2485.00	51.15	92.20	2.23	6.76	8.79	-7938.31	-7636.00
2490.00	51.18	92.23	2.22	6.75	8.77	-7955.92	-7653.50
2495.00	51.20	92.27	2.22	6.74	8.76	-7973.54	-7671.00
2500.00	51.23	92.30	2.22	6.73	8.74	-7991.15	-7688.50
2505.00	51.25	92.34	2.21	6.71	8.73	-8008.77	-7706.00
2510.00	51.28	92.37	2.21	6.70	8.72	-8026.38	-7723.50
2515.00	51.30	92.41	2.20	6.69	8.70	-8044.00	-7741.00
2520.00	51.33	92.44	2.20	6.68	8.69	-8061.62	-7758.50
2525.00	51.35	92.48	2.20	6.67	8.67	-8079.23	-7776.00
2530.00	51.37	92.51	2.19	6.66	8.66	-8096.85	-7793.51
2535.00	51.40	92.55	2.19	6.65	8.65	-8114.47	-7811.01
2540.00	51.42	92.58	2.19	6.64	8.63	-8132.09	-7828.52
2545.00	51.45	92.62	2.18	6.63	8.62	-8149.71	-7846.02
2550.00	51.47	92.65	2.18	6.62	8.60	-8167.33	-7863.53
2555.00	51.50	92.69	2.18	6.61	8.59	-8184.95	-7881.04
2560.00	51.52	92.72	2.17	6.60	8.58	-8202.58	-7898.55
2565.00	51.54	92.76	2.17	6.59	8.56	-8220.20	-7916.06
2570.00	51.57	92.79	2.17	6.58	8.55	-8237.82	-7933.57
2575.00	51.59	92.83	2.16	6.57	8.54	-8255.45	-7951.08
2580.00	51.62	92.86	2.16	6.56	8.52	-8273.07	-7968.59
2585.00	51.64	92.89	2.16	6.55	8.51	-8290.70	-7986.11
2590.00	51.66	92.93	2.15	6.54	8.50	-8308.32	-8003.62
2595.00	51.69	92.96	2.15	6.53	8.48	-8325.95	-8021.14
2600.00	51.71	93.00	2.15	6.52	8.47	-8343.58	-8038.65
2605.00	51.74	93.03	2.14	6.51	8.46	-8361.21	-8056.17
2610.00	51.76	93.07	2.14	6.50	8.44	-8378.83	-8073.68
2615.00	51.78	93.10	2.14	6.49	8.43	-8396.46	-8091.20
2620.00	51.81	93.13	2.13	6.48	8.42	-8414.09	-8108.72
2625.00	51.83	93.17	2.13	6.47	8.40	-8431.72	-8126.24
2630.00	51.86	93.20	2.13	6.46	8.39	-8449.35	-8143.76
2635.00	51.88	93.23	2.12	6.45	8.38	-8466.99	-8161.28
2640.00	51.90	93.27	2.12	6.44	8.37	-8484.62	-8178.80
2645.00	51.93	93.30	2.12	6.43	8.35	-8502.25	-8196.33
2650.00	51.95	93.34	2.11	6.42	8.34	-8519.89	-8213.85
2655.00	51.97	93.37	2.11	6.41	8.33	-8537.52	-8231.37
2660.00	52.00	93.40	2.11	6.40	8.32	-8555.15	-8248.90
2665.00	52.02	93.44	2.10	6.39	8.30	-8572.79	-8266.43
2670.00	52.04	93.47	2.10	6.38	8.29	-8590.42	-8283.95
2675.00	52.07	93.50	2.10	6.37	8.28	-8608.06	-8301.48
2680.00	52.09	93.54	2.09	6.36	8.26	-8625.70	-8319.01
2685.00	52.11	93.57	2.09	6.35	8.25	-8643.34	-8336.54
2690.00	52.14	93.60	2.09	6.34	8.24	-8660.97	-8354.07
2695.00	52.16	93.63	2.08	6.33	8.23	-8678.61	-8371.60
2700.00	52.18	93.67	2.08	6.32	8.22	-8696.25	-8389.13

2705.00	52.21	93.70	2.08	6.31	8.20	-8713.89	-8406.66
2710.00	52.23	93.73	2.08	6.30	8.19	-8731.53	-8424.19
2715.00	52.25	93.77	2.07	6.29	8.18	-8749.17	-8441.73
2720.00	52.28	93.80	2.07	6.28	8.17	-8766.81	-8459.26
2725.00	52.30	93.83	2.07	6.27	8.15	-8784.46	-8476.79
2730.00	52.32	93.86	2.06	6.26	8.14	-8802.10	-8494.33
2735.00	52.35	93.90	2.06	6.25	8.13	-8819.74	-8511.87
2740.00	52.37	93.93	2.06	6.24	8.12	-8837.39	-8529.40
2745.00	52.39	93.96	2.05	6.24	8.11	-8855.03	-8546.94
2750.00	52.41	93.99	2.05	6.23	8.09	-8872.68	-8564.48
2755.00	52.44	94.03	2.05	6.22	8.08	-8890.32	-8582.02
2760.00	52.46	94.06	2.04	6.21	8.07	-8907.97	-8599.56
2765.00	52.48	94.09	2.04	6.20	8.06	-8925.61	-8617.10
2770.00	52.51	94.12	2.04	6.19	8.05	-8943.26	-8634.64
2775.00	52.53	94.16	2.04	6.18	8.03	-8960.91	-8652.18
2780.00	52.55	94.19	2.03	6.17	8.02	-8978.56	-8669.72
2785.00	52.57	94.22	2.03	6.16	8.01	-8996.21	-8687.27
2790.00	52.60	94.25	2.03	6.15	8.00	-9013.86	-8704.81
2795.00	52.62	94.28	2.02	6.14	7.99	-9031.51	-8722.36
2800.00	52.64	94.32	2.02	6.14	7.98	-9049.16	-8739.90
2805.00	52.66	94.35	2.02	6.13	7.97	-9066.81	-8757.45
2810.00	52.69	94.38	2.02	6.12	7.95	-9084.46	-8775.00
2815.00	52.71	94.41	2.01	6.11	7.94	-9102.11	-8792.54
2820.00	52.73	94.44	2.01	6.10	7.93	-9119.76	-8810.09
2825.00	52.75	94.48	2.01	6.09	7.92	-9137.42	-8827.64
2830.00	52.78	94.51	2.00	6.08	7.91	-9155.07	-8845.19
2835.00	52.80	94.54	2.00	6.07	7.90	-9172.72	-8862.74
2840.00	52.82	94.57	2.00	6.07	7.89	-9190.38	-8880.29
2845.00	52.84	94.60	2.00	6.06	7.87	-9208.03	-8897.84
2850.00	52.87	94.63	1.99	6.05	7.86	-9225.69	-8915.40
2855.00	52.89	94.67	1.99	6.04	7.85	-9243.35	-8932.95
2860.00	52.91	94.70	1.99	6.03	7.84	-9261.00	-8950.50
2865.00	52.93	94.73	1.98	6.02	7.83	-9278.66	-8968.06
2870.00	52.96	94.76	1.98	6.01	7.82	-9296.32	-8985.61
2875.00	52.98	94.79	1.98	6.01	7.81	-9313.98	-9003.17
2880.00	53.00	94.82	1.98	6.00	7.80	-9331.63	-9020.73

**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
2.36	0.1699	0.0028	0.000114	0.212344	0.659366	1.933565
2.53	0.1644	0.005831	-0.00013	0.216534	0.672376	1.958887
2.64	0.1644	0.005831	-0.00013	0.219831	0.682613	1.979042
2.72	0.1644	0.005831	-0.00013	0.222032	0.689446	1.992612
2.78	0.1644	0.005831	-0.00013	0.223586	0.694271	2.002249
2.83	0.1644	0.005831	-0.00013	0.224721	0.697796	2.009319
2.88	0.1644	0.005831	-0.00013	0.225566	0.700422	2.014603
2.91	0.1644	0.005831	-0.00013	0.226203	0.702398	2.018588
2.94	0.1644	0.005831	-0.00013	0.226682	0.703886	2.021592
2.97	0.1644	0.005831	-0.00013	0.227039	0.704995	2.023836
3.00	0.1644	0.005831	-0.00013	0.2273	0.705805	2.025477
3.02	0.1644	0.005831	-0.00013	0.227483	0.706374	2.02663
3.04	0.1644	0.005831	-0.00013	0.227603	0.706746	2.027383
3.06	0.1644	0.005831	-0.00013	0.22767	0.706953	2.027804
3.08	0.1644	0.005831	-0.00013	0.227692	0.707023	2.027944
3.09	0.1644	0.005831	-0.00013	0.227677	0.706975	2.027848
3.11	0.1644	0.005831	-0.00013	0.227629	0.706827	2.027548
3.12	0.1644	0.005831	-0.00013	0.227554	0.706593	2.027073
3.14	0.1644	0.005831	-0.00013	0.227454	0.706284	2.026446
3.15	0.1644	0.005831	-0.00013	0.227333	0.705909	2.025686
3.16	0.1644	0.005831	-0.00013	0.227194	0.705476	2.02481
3.17	0.1644	0.005831	-0.00013	0.227038	0.704992	2.023831
3.19	0.1644	0.005831	-0.00013	0.226868	0.704464	2.022762
3.20	0.1644	0.005831	-0.00013	0.226685	0.703895	2.021612
3.21	0.1644	0.005831	-0.00013	0.22649	0.703291	2.02039
3.22	0.1644	0.005831	-0.00013	0.226285	0.702654	2.019104
3.23	0.1644	0.005831	-0.00013	0.226071	0.701988	2.017761
3.24	0.1644	0.005831	-0.00013	0.225848	0.701297	2.016366
3.24	0.1644	0.005831	-0.00013	0.225618	0.700582	2.014925
3.25	0.1644	0.005831	-0.00013	0.225381	0.699846	2.013443
3.26	0.1644	0.005831	-0.00013	0.225138	0.699091	2.011923
3.27	0.1644	0.005831	-0.00013	0.224889	0.698318	2.010369
3.28	0.1644	0.005831	-0.00013	0.224635	0.69753	2.008784
3.28	0.1644	0.005831	-0.00013	0.224376	0.696727	2.007172
3.29	0.1644	0.005831	-0.00013	0.224114	0.695911	2.005534
3.30	0.1644	0.005831	-0.00013	0.223847	0.695082	2.003874
3.30	0.1644	0.005831	-0.00013	0.223577	0.694243	2.002194
3.31	0.1644	0.005831	-0.00013	0.223303	0.693394	2.000494
3.32	0.1644	0.005831	-0.00013	0.223027	0.692536	1.998778

3.32	0.1644	0.005831	-0.00013	0.222748	0.69167	1.997047
3.33	0.1644	0.005831	-0.00013	0.222466	0.690795	1.995302
3.34	0.1644	0.005831	-0.00013	0.222182	0.689914	1.993545
3.34	0.1644	0.005831	-0.00013	0.221897	0.689027	1.991776
3.35	0.1644	0.005831	-0.00013	0.221609	0.688133	1.989997
3.35	0.1644	0.005831	-0.00013	0.221319	0.687234	1.988209
3.36	0.1644	0.005831	-0.00013	0.221028	0.686331	1.986414
3.36	0.1644	0.005831	-0.00013	0.220736	0.685423	1.98461
3.37	0.1644	0.005831	-0.00013	0.220442	0.68451	1.982801
3.37	0.1644	0.005831	-0.00013	0.220147	0.683595	1.980986
3.38	0.1644	0.005831	-0.00013	0.219851	0.682675	1.979165
3.38	0.1644	0.005831	-0.00013	0.219554	0.681753	1.977341
3.39	0.1644	0.005831	-0.00013	0.219256	0.680828	1.975512
3.39	0.1644	0.005831	-0.00013	0.218957	0.6799	1.973681
3.40	0.1644	0.005831	-0.00013	0.218658	0.67897	1.971846
3.40	0.1644	0.005831	-0.00013	0.218358	0.678038	1.970009
3.41	0.1644	0.005831	-0.00013	0.218057	0.677105	1.968171
3.41	0.1644	0.005831	-0.00013	0.217756	0.676169	1.966331
3.42	0.1644	0.005831	-0.00013	0.217454	0.675232	1.96449
3.42	0.1644	0.005831	-0.00013	0.217152	0.674294	1.962648
3.42	0.1644	0.005831	-0.00013	0.21685	0.673355	1.960805
3.43	0.1644	0.005831	-0.00013	0.216547	0.672415	1.958963
3.43	0.1644	0.005831	-0.00013	0.216244	0.671474	1.957121
3.44	0.2644	-0.00162	3.15E-06	0.217086	0.67409	1.962246
3.44	0.2644	-0.00162	3.15E-06	0.216915	0.673559	1.961204
3.44	0.2644	-0.00162	3.15E-06	0.216746	0.673035	1.960177
3.45	0.2644	-0.00162	3.15E-06	0.21658	0.672517	1.959162
3.45	0.2644	-0.00162	3.15E-06	0.216415	0.672005	1.95816
3.45	0.2644	-0.00162	3.15E-06	0.216252	0.6715	1.957171
3.46	0.2644	-0.00162	3.15E-06	0.216091	0.671001	1.956194
3.46	0.2644	-0.00162	3.15E-06	0.215933	0.670507	1.955229
3.47	0.2644	-0.00162	3.15E-06	0.215775	0.67002	1.954276
3.47	0.2644	-0.00162	3.15E-06	0.21562	0.669537	1.953333
3.47	0.2644	-0.00162	3.15E-06	0.215467	0.66906	1.952402
3.48	0.2644	-0.00162	3.15E-06	0.215315	0.668589	1.951481
3.48	0.2644	-0.00162	3.15E-06	0.215164	0.668122	1.950571
3.48	0.2644	-0.00162	3.15E-06	0.215016	0.667661	1.949671
3.49	0.2644	-0.00162	3.15E-06	0.214869	0.667204	1.948781
3.49	0.2644	-0.00162	3.15E-06	0.214723	0.666752	1.947901
3.49	0.2644	-0.00162	3.15E-06	0.214579	0.666305	1.94703
3.49	0.2644	-0.00162	3.15E-06	0.214437	0.665863	1.946169
3.50	0.2644	-0.00162	3.15E-06	0.214296	0.665425	1.945316
3.50	0.2644	-0.00162	3.15E-06	0.214156	0.664991	1.944473
3.50	0.2644	-0.00162	3.15E-06	0.214018	0.664561	1.943638
3.51	0.2644	-0.00162	3.15E-06	0.213881	0.664136	1.942811
3.51	0.2644	-0.00162	3.15E-06	0.213745	0.663715	1.941993
3.51	0.2644	-0.00162	3.15E-06	0.213611	0.663297	1.941182
3.51	0.2644	-0.00162	3.15E-06	0.213477	0.662884	1.94038
3.52	0.2644	-0.00162	3.15E-06	0.213346	0.662474	1.939586
3.52	0.2644	-0.00162	3.15E-06	0.213215	0.662069	1.938799

3.52	0.2644	-0.00162	3.15E-06	0.213085	0.661666	1.938019
3.53	0.2644	-0.00162	3.15E-06	0.212957	0.661268	1.937247
3.53	0.2644	-0.00162	3.15E-06	0.21283	0.660873	1.936482
3.53	0.2644	-0.00162	3.15E-06	0.212704	0.660481	1.935724
3.53	0.2644	-0.00162	3.15E-06	0.212579	0.660093	1.934973
3.54	0.2644	-0.00162	3.15E-06	0.212455	0.659708	1.934228
3.54	0.2644	-0.00162	3.15E-06	0.212332	0.659327	1.93349
3.54	0.2644	-0.00162	3.15E-06	0.21221	0.658948	1.932759
3.54	0.2644	-0.00162	3.15E-06	0.212089	0.658573	1.932034
3.55	0.2644	-0.00162	3.15E-06	0.211969	0.658201	1.931315
3.55	0.2644	-0.00162	3.15E-06	0.211851	0.657832	1.930602
3.55	0.2644	-0.00162	3.15E-06	0.211733	0.657466	1.929895
3.55	0.2644	-0.00162	3.15E-06	0.211616	0.657103	1.929195
3.56	0.2644	-0.00162	3.15E-06	0.2115	0.656742	1.928499
3.56	0.2644	-0.00162	3.15E-06	0.211384	0.656385	1.92781
3.56	0.2644	-0.00162	3.15E-06	0.21127	0.65603	1.927126
3.56	0.2644	-0.00162	3.15E-06	0.211157	0.655678	1.926448
3.57	0.2644	-0.00162	3.15E-06	0.211044	0.655329	1.925775
3.57	0.2644	-0.00162	3.15E-06	0.210933	0.654982	1.925108
3.57	0.2644	-0.00162	3.15E-06	0.210822	0.654638	1.924445
3.57	0.2644	-0.00162	3.15E-06	0.210712	0.654296	1.923788
3.57	0.2644	-0.00162	3.15E-06	0.210603	0.653957	1.923136
3.58	0.2644	-0.00162	3.15E-06	0.210494	0.65362	1.922488
3.58	0.2644	-0.00162	3.15E-06	0.210387	0.653286	1.921846
3.58	0.2644	-0.00162	3.15E-06	0.21028	0.652954	1.921208
3.58	0.2644	-0.00162	3.15E-06	0.210174	0.652625	1.920576
3.58	0.2644	-0.00162	3.15E-06	0.210068	0.652298	1.919947
3.59	0.2644	-0.00162	3.15E-06	0.209964	0.651973	1.919324
3.59	0.2644	-0.00162	3.15E-06	0.20986	0.65165	1.918705
3.59	0.2644	-0.00162	3.15E-06	0.209757	0.65133	1.91809
3.59	0.2644	-0.00162	3.15E-06	0.209654	0.651012	1.917479
3.59	0.2644	-0.00162	3.15E-06	0.209552	0.650695	1.916873
3.60	0.2644	-0.00162	3.15E-06	0.209451	0.650381	1.916272
3.60	0.2644	-0.00162	3.15E-06	0.209351	0.650069	1.915674
3.60	0.2644	-0.00162	3.15E-06	0.209251	0.64976	1.91508
3.60	0.2644	-0.00162	3.15E-06	0.209152	0.649452	1.914491
3.60	0.2644	-0.00162	3.15E-06	0.209053	0.649146	1.913905
3.61	0.2644	-0.00162	3.15E-06	0.208955	0.648842	1.913324
3.61	0.2644	-0.00162	3.15E-06	0.208858	0.64854	1.912746
3.61	0.2644	-0.00162	3.15E-06	0.208761	0.64824	1.912172
3.61	0.2644	-0.00162	3.15E-06	0.208665	0.647942	1.911602
3.61	0.2644	-0.00162	3.15E-06	0.20857	0.647645	1.911035
3.62	0.2644	-0.00162	3.15E-06	0.208475	0.647351	1.910473
3.62	0.2644	-0.00162	3.15E-06	0.208381	0.647058	1.909913
3.62	0.2644	-0.00162	3.15E-06	0.208287	0.646767	1.909358
3.62	0.2644	-0.00162	3.15E-06	0.208194	0.646478	1.908806
3.62	0.2644	-0.00162	3.15E-06	0.208101	0.64619	1.908257
3.62	0.2644	-0.00162	3.15E-06	0.208009	0.645905	1.907712
3.63	0.2644	-0.00162	3.15E-06	0.207918	0.64562	1.90717
3.63	0.2644	-0.00162	3.15E-06	0.207827	0.645338	1.906631

3.63	0.2644	-0.00162	3.15E-06	0.207737	0.645057	1.906096
3.63	0.2644	-0.00162	3.15E-06	0.207647	0.644778	1.905564
3.63	0.2644	-0.00162	3.15E-06	0.207557	0.644501	1.905035
3.64	0.2644	-0.00162	3.15E-06	0.207468	0.644225	1.90451
3.64	0.2644	-0.00162	3.15E-06	0.20738	0.64395	1.903987
3.64	0.2644	-0.00162	3.15E-06	0.207292	0.643677	1.903467
3.64	0.2644	-0.00162	3.15E-06	0.207205	0.643406	1.902951
3.64	0.2644	-0.00162	3.15E-06	0.207118	0.643136	1.902438
3.64	0.2644	-0.00162	3.15E-06	0.207031	0.642868	1.901927
3.65	0.2644	-0.00162	3.15E-06	0.206945	0.642601	1.901419
3.65	0.2644	-0.00162	3.15E-06	0.20686	0.642335	1.900915
3.65	0.2644	-0.00162	3.15E-06	0.206775	0.642071	1.900413
3.65	0.2644	-0.00162	3.15E-06	0.20669	0.641809	1.899914
3.65	0.2644	-0.00162	3.15E-06	0.206606	0.641547	1.899418
3.65	0.2644	-0.00162	3.15E-06	0.206522	0.641287	1.898924
3.65	0.2644	-0.00162	3.15E-06	0.206439	0.641029	1.898433
3.66	0.2644	-0.00162	3.15E-06	0.206356	0.640772	1.897945
3.66	0.2644	-0.00162	3.15E-06	0.206274	0.640516	1.89746
3.66	0.2644	-0.00162	3.15E-06	0.206192	0.640262	1.896977
3.66	0.2644	-0.00162	3.15E-06	0.206111	0.640008	1.896497
3.66	0.2644	-0.00162	3.15E-06	0.206029	0.639756	1.896019
3.66	0.2644	-0.00162	3.15E-06	0.205949	0.639506	1.895544
3.67	0.2644	-0.00162	3.15E-06	0.205868	0.639256	1.895071
3.67	0.2644	-0.00162	3.15E-06	0.205789	0.639008	1.894601
3.67	0.2644	-0.00162	3.15E-06	0.205709	0.638761	1.894133
3.67	0.2644	-0.00162	3.15E-06	0.20563	0.638516	1.893668
3.67	0.2644	-0.00162	3.15E-06	0.205551	0.638271	1.893205
3.67	0.2644	-0.00162	3.15E-06	0.205473	0.638028	1.892745
3.67	0.2644	-0.00162	3.15E-06	0.205395	0.637786	1.892287
3.68	0.2644	-0.00162	3.15E-06	0.205317	0.637545	1.891831
3.68	0.2644	-0.00162	3.15E-06	0.20524	0.637305	1.891377
3.68	0.2644	-0.00162	3.15E-06	0.205163	0.637067	1.890926
3.68	0.2644	-0.00162	3.15E-06	0.205087	0.636829	1.890477
3.68	0.2644	-0.00162	3.15E-06	0.205011	0.636593	1.89003
3.68	0.2644	-0.00162	3.15E-06	0.204935	0.636357	1.889585
3.68	0.2644	-0.00162	3.15E-06	0.204859	0.636123	1.889143
3.69	0.2644	-0.00162	3.15E-06	0.204784	0.63589	1.888703
3.69	0.2644	-0.00162	3.15E-06	0.20471	0.635658	1.888264
3.69	0.2644	-0.00162	3.15E-06	0.204635	0.635427	1.887828
3.69	0.2644	-0.00162	3.15E-06	0.204561	0.635197	1.887394
3.69	0.2644	-0.00162	3.15E-06	0.204487	0.634968	1.886962
3.69	0.2644	-0.00162	3.15E-06	0.204414	0.63474	1.886532
3.69	0.2644	-0.00162	3.15E-06	0.204341	0.634514	1.886104
3.69	0.2644	-0.00162	3.15E-06	0.204268	0.634288	1.885679
3.70	0.2644	-0.00162	3.15E-06	0.204196	0.634063	1.885255
3.70	0.2644	-0.00162	3.15E-06	0.204124	0.633839	1.884833
3.70	0.2644	-0.00162	3.15E-06	0.204052	0.633616	1.884413
3.70	0.2644	-0.00162	3.15E-06	0.203981	0.633394	1.883995
3.70	0.2644	-0.00162	3.15E-06	0.203909	0.633173	1.883578
3.70	0.2644	-0.00162	3.15E-06	0.203839	0.632953	1.883164

3.70	0.2644	-0.00162	3.15E-06	0.203768	0.632734	1.882752
3.71	0.2644	-0.00162	3.15E-06	0.203698	0.632516	1.882341
3.71	0.2644	-0.00162	3.15E-06	0.203628	0.632299	1.881932
3.71	0.2644	-0.00162	3.15E-06	0.203558	0.632083	1.881525
3.71	0.2644	-0.00162	3.15E-06	0.203489	0.631867	1.88112
3.71	0.2644	-0.00162	3.15E-06	0.20342	0.631653	1.880717
3.71	0.2644	-0.00162	3.15E-06	0.203351	0.631439	1.880315
3.71	0.2644	-0.00162	3.15E-06	0.203283	0.631227	1.879915
3.71	0.2644	-0.00162	3.15E-06	0.203214	0.631015	1.879517
3.72	0.2644	-0.00162	3.15E-06	0.203146	0.630804	1.879121
3.72	0.2644	-0.00162	3.15E-06	0.203079	0.630594	1.878726
3.72	0.2644	-0.00162	3.15E-06	0.203011	0.630385	1.878333
3.72	0.2644	-0.00162	3.15E-06	0.202944	0.630176	1.877942
3.72	0.2644	-0.00162	3.15E-06	0.202877	0.629969	1.877552
3.72	0.2644	-0.00162	3.15E-06	0.202811	0.629762	1.877164
3.72	0.2644	-0.00162	3.15E-06	0.202745	0.629556	1.876777
3.72	0.2644	-0.00162	3.15E-06	0.202678	0.629351	1.876393
3.72	0.2644	-0.00162	3.15E-06	0.202613	0.629147	1.876009
3.73	0.2644	-0.00162	3.15E-06	0.202547	0.628943	1.875628
3.73	0.2644	-0.00162	3.15E-06	0.202482	0.628741	1.875248
3.73	0.2644	-0.00162	3.15E-06	0.202417	0.628539	1.874869
3.73	0.2644	-0.00162	3.15E-06	0.202352	0.628338	1.874492
3.73	0.2644	-0.00162	3.15E-06	0.202288	0.628137	1.874116
3.73	0.2644	-0.00162	3.15E-06	0.202223	0.627938	1.873742
3.73	0.2644	-0.00162	3.15E-06	0.202159	0.627739	1.87337
3.73	0.2644	-0.00162	3.15E-06	0.202095	0.627541	1.872999
3.73	0.2644	-0.00162	3.15E-06	0.202032	0.627344	1.872629
3.74	0.2644	-0.00162	3.15E-06	0.201969	0.627147	1.872261
3.74	0.2644	-0.00162	3.15E-06	0.201906	0.626951	1.871895
3.74	0.2644	-0.00162	3.15E-06	0.201843	0.626756	1.871529
3.74	0.2644	-0.00162	3.15E-06	0.20178	0.626562	1.871166
3.74	0.2644	-0.00162	3.15E-06	0.201718	0.626368	1.870803
3.74	0.2644	-0.00162	3.15E-06	0.201656	0.626175	1.870442
3.74	0.2644	-0.00162	3.15E-06	0.201594	0.625983	1.870083
3.74	0.2644	-0.00162	3.15E-06	0.201532	0.625791	1.869725
3.74	0.2644	-0.00162	3.15E-06	0.201471	0.6256	1.869368
3.75	0.2644	-0.00162	3.15E-06	0.201409	0.62541	1.869012
3.75	0.2644	-0.00162	3.15E-06	0.201348	0.625221	1.868658
3.75	0.2644	-0.00162	3.15E-06	0.201287	0.625032	1.868305
3.75	0.2644	-0.00162	3.15E-06	0.201227	0.624844	1.867954
3.75	0.2644	-0.00162	3.15E-06	0.201166	0.624656	1.867604
3.75	0.2644	-0.00162	3.15E-06	0.201106	0.624469	1.867255
3.75	0.2644	-0.00162	3.15E-06	0.201046	0.624283	1.866907
3.75	0.2644	-0.00162	3.15E-06	0.200987	0.624098	1.866561
3.75	0.2644	-0.00162	3.15E-06	0.200927	0.623913	1.866216
3.76	0.2644	-0.00162	3.15E-06	0.200868	0.623729	1.865872
3.76	0.2644	-0.00162	3.15E-06	0.200809	0.623545	1.86553
3.76	0.2644	-0.00162	3.15E-06	0.20075	0.623362	1.865188
3.76	0.2644	-0.00162	3.15E-06	0.200691	0.62318	1.864848
3.76	0.2644	-0.00162	3.15E-06	0.200633	0.622998	1.86451



3.76	0.2644	-0.00162	3.15E-06	0.200574	0.622817	1.864172
3.76	0.2644	-0.00162	3.15E-06	0.200516	0.622637	1.863836
3.76	0.2644	-0.00162	3.15E-06	0.200458	0.622457	1.8635
3.76	0.2644	-0.00162	3.15E-06	0.2004	0.622277	1.863166
3.76	0.2644	-0.00162	3.15E-06	0.200343	0.622099	1.862834
3.77	0.2644	-0.00162	3.15E-06	0.200286	0.621921	1.862502
3.77	0.2644	-0.00162	3.15E-06	0.200228	0.621743	1.862171
3.77	0.2644	-0.00162	3.15E-06	0.200171	0.621566	1.861842
3.77	0.2644	-0.00162	3.15E-06	0.200115	0.62139	1.861514
3.77	0.2644	-0.00162	3.15E-06	0.200058	0.621214	1.861187
3.77	0.2644	-0.00162	3.15E-06	0.200002	0.621039	1.860861
3.77	0.2644	-0.00162	3.15E-06	0.199945	0.620865	1.860536
3.77	0.2644	-0.00162	3.15E-06	0.199889	0.620691	1.860212
3.77	0.2644	-0.00162	3.15E-06	0.199834	0.620517	1.85989
3.77	0.2644	-0.00162	3.15E-06	0.199778	0.620344	1.859568
3.77	0.2644	-0.00162	3.15E-06	0.199722	0.620172	1.859247
3.78	0.2644	-0.00162	3.15E-06	0.199667	0.62	1.858928
3.78	0.2644	-0.00162	3.15E-06	0.199612	0.619829	1.85861
3.78	0.2644	-0.00162	3.15E-06	0.199557	0.619658	1.858293
3.78	0.2644	-0.00162	3.15E-06	0.199502	0.619488	1.857976
3.78	0.2644	-0.00162	3.15E-06	0.199447	0.619318	1.857661
3.78	0.2644	-0.00162	3.15E-06	0.199393	0.619149	1.857347
3.78	0.2644	-0.00162	3.15E-06	0.199339	0.618981	1.857034
3.78	0.2644	-0.00162	3.15E-06	0.199285	0.618813	1.856722
3.78	0.2644	-0.00162	3.15E-06	0.199231	0.618645	1.856411
3.78	0.2644	-0.00162	3.15E-06	0.199177	0.618478	1.856101
3.79	0.2644	-0.00162	3.15E-06	0.199123	0.618311	1.855792
3.79	0.2644	-0.00162	3.15E-06	0.19907	0.618145	1.855484
3.79	0.2644	-0.00162	3.15E-06	0.199016	0.61798	1.855177
3.79	0.2644	-0.00162	3.15E-06	0.198963	0.617815	1.854871
3.79	0.2644	-0.00162	3.15E-06	0.19891	0.61765	1.854566
3.79	0.2644	-0.00162	3.15E-06	0.198858	0.617486	1.854261
3.79	0.2644	-0.00162	3.15E-06	0.198805	0.617323	1.853958
3.79	0.2644	-0.00162	3.15E-06	0.198752	0.61716	1.853656
3.79	0.2644	-0.00162	3.15E-06	0.1987	0.616997	1.853355
3.79	0.2644	-0.00162	3.15E-06	0.198648	0.616835	1.853054
3.79	0.2644	-0.00162	3.15E-06	0.198596	0.616674	1.852755
3.79	0.2644	-0.00162	3.15E-06	0.198544	0.616513	1.852457
3.80	0.2644	-0.00162	3.15E-06	0.198492	0.616352	1.852159
3.80	0.2644	-0.00162	3.15E-06	0.198441	0.616192	1.851863
3.80	0.2644	-0.00162	3.15E-06	0.198389	0.616032	1.851567
3.80	0.2644	-0.00162	3.15E-06	0.198338	0.615873	1.851272
3.80	0.2644	-0.00162	3.15E-06	0.198287	0.615714	1.850978
3.80	0.2644	-0.00162	3.15E-06	0.198236	0.615556	1.850685
3.80	0.2644	-0.00162	3.15E-06	0.198185	0.615398	1.850393
3.80	0.2644	-0.00162	3.15E-06	0.198134	0.615241	1.850102
3.80	0.2644	-0.00162	3.15E-06	0.198084	0.615084	1.849812
3.80	0.2644	-0.00162	3.15E-06	0.198033	0.614927	1.849522
3.80	0.2644	-0.00162	3.15E-06	0.197983	0.614771	1.849234
3.81	0.2644	-0.00162	3.15E-06	0.197933	0.614616	1.848946

3.81	0.2644	-0.00162	3.15E-06	0.197883	0.61446	1.848659
3.81	0.2644	-0.00162	3.15E-06	0.197833	0.614306	1.848373
3.81	0.2644	-0.00162	3.15E-06	0.197784	0.614151	1.848088
3.81	0.2644	-0.00162	3.15E-06	0.197734	0.613998	1.847803
3.81	0.2644	-0.00162	3.15E-06	0.197685	0.613844	1.84752
3.81	0.2644	-0.00162	3.15E-06	0.197635	0.613691	1.847237
3.81	0.2644	-0.00162	3.15E-06	0.197586	0.613539	1.846955
3.81	0.2644	-0.00162	3.15E-06	0.197537	0.613386	1.846674
3.81	0.2644	-0.00162	3.15E-06	0.197488	0.613235	1.846394
3.81	0.2644	-0.00162	3.15E-06	0.197439	0.613083	1.846115
3.81	0.2644	-0.00162	3.15E-06	0.197391	0.612932	1.845836
3.81	0.2644	-0.00162	3.15E-06	0.197342	0.612782	1.845558
3.82	0.2644	-0.00162	3.15E-06	0.197294	0.612632	1.845281
3.82	0.2644	-0.00162	3.15E-06	0.197246	0.612482	1.845005
3.82	0.2644	-0.00162	3.15E-06	0.197198	0.612333	1.84473
3.82	0.2644	-0.00162	3.15E-06	0.19715	0.612184	1.844455
3.82	0.2644	-0.00162	3.15E-06	0.197102	0.612035	1.844181
3.82	0.2644	-0.00162	3.15E-06	0.197054	0.611887	1.843908
3.82	0.2644	-0.00162	3.15E-06	0.197007	0.611739	1.843635
3.82	0.2644	-0.00162	3.15E-06	0.196959	0.611592	1.843364
3.82	0.2644	-0.00162	3.15E-06	0.196912	0.611445	1.843093
3.82	0.2644	-0.00162	3.15E-06	0.196865	0.611299	1.842823
3.82	0.2644	-0.00162	3.15E-06	0.196818	0.611152	1.842554
3.82	0.2644	-0.00162	3.15E-06	0.196771	0.611007	1.842285
3.82	0.2644	-0.00162	3.15E-06	0.196724	0.610861	1.842017
3.83	0.2644	-0.00162	3.15E-06	0.196677	0.610716	1.84175
3.83	0.2644	-0.00162	3.15E-06	0.196631	0.610572	1.841484
3.83	0.2644	-0.00162	3.15E-06	0.196584	0.610427	1.841218
3.83	0.2644	-0.00162	3.15E-06	0.196538	0.610283	1.840953
3.83	0.2644	-0.00162	3.15E-06	0.196492	0.61014	1.840689
3.83	0.2644	-0.00162	3.15E-06	0.196445	0.609997	1.840425
3.83	0.2644	-0.00162	3.15E-06	0.196399	0.609854	1.840162
3.83	0.2644	-0.00162	3.15E-06	0.196354	0.609711	1.8399
3.83	0.2644	-0.00162	3.15E-06	0.196308	0.609569	1.839639
3.83	0.2644	-0.00162	3.15E-06	0.196262	0.609428	1.839378
3.83	0.2644	-0.00162	3.15E-06	0.196217	0.609286	1.839118
3.83	0.2644	-0.00162	3.15E-06	0.196171	0.609145	1.838859
3.83	0.2644	-0.00162	3.15E-06	0.196126	0.609005	1.8386
3.84	0.2644	-0.00162	3.15E-06	0.196081	0.608864	1.838342
3.84	0.2644	-0.00162	3.15E-06	0.196036	0.608724	1.838085
3.84	0.2644	-0.00162	3.15E-06	0.195991	0.608585	1.837828
3.84	0.2644	-0.00162	3.15E-06	0.195946	0.608445	1.837572
3.84	0.2644	-0.00162	3.15E-06	0.195901	0.608306	1.837317
3.84	0.2644	-0.00162	3.15E-06	0.195857	0.608168	1.837063
3.84	0.2644	-0.00162	3.15E-06	0.195812	0.60803	1.836809
3.84	0.2644	-0.00162	3.15E-06	0.195768	0.607892	1.836555
3.84	0.2644	-0.00162	3.15E-06	0.195723	0.607754	1.836303
3.84	0.2644	-0.00162	3.15E-06	0.195679	0.607617	1.836051
3.84	0.2644	-0.00162	3.15E-06	0.195635	0.60748	1.835799
3.84	0.2644	-0.00162	3.15E-06	0.195591	0.607343	1.835549

3.84	0.2644	-0.00162	3.15E-06	0.195547	0.607207	1.835299
3.84	0.2644	-0.00162	3.15E-06	0.195503	0.607071	1.835049
3.85	0.2644	-0.00162	3.15E-06	0.19546	0.606936	1.8348
3.85	0.2644	-0.00162	3.15E-06	0.195416	0.6068	1.834552
3.85	0.2644	-0.00162	3.15E-06	0.195373	0.606665	1.834305
3.85	0.2644	-0.00162	3.15E-06	0.195329	0.606531	1.834058
3.85	0.2644	-0.00162	3.15E-06	0.195286	0.606397	1.833811
3.85	0.2644	-0.00162	3.15E-06	0.195243	0.606263	1.833566
3.85	0.2644	-0.00162	3.15E-06	0.1952	0.606129	1.833321
3.85	0.2644	-0.00162	3.15E-06	0.195157	0.605995	1.833076
3.85	0.2644	-0.00162	3.15E-06	0.195114	0.605862	1.832832
3.85	0.2644	-0.00162	3.15E-06	0.195071	0.60573	1.832589
3.85	0.2644	-0.00162	3.15E-06	0.195029	0.605597	1.832346
3.85	0.2644	-0.00162	3.15E-06	0.194986	0.605465	1.832104
3.85	0.2644	-0.00162	3.15E-06	0.194944	0.605333	1.831863
3.85	0.2644	-0.00162	3.15E-06	0.194901	0.605202	1.831622
3.86	0.2644	-0.00162	3.15E-06	0.194859	0.605071	1.831381
3.86	0.2644	-0.00162	3.15E-06	0.194817	0.60494	1.831142
3.86	0.2644	-0.00162	3.15E-06	0.194775	0.604809	1.830903
3.86	0.2644	-0.00162	3.15E-06	0.194733	0.604679	1.830664
3.86	0.2644	-0.00162	3.15E-06	0.194691	0.604549	1.830426
3.86	0.2644	-0.00162	3.15E-06	0.194649	0.604419	1.830189
3.86	0.2644	-0.00162	3.15E-06	0.194608	0.60429	1.829952
3.86	0.2644	-0.00162	3.15E-06	0.194566	0.60416	1.829715
3.86	0.2644	-0.00162	3.15E-06	0.194524	0.604032	1.82948
3.86	0.2644	-0.00162	3.15E-06	0.194483	0.603903	1.829245
3.86	0.2644	-0.00162	3.15E-06	0.194442	0.603775	1.82901
3.86	0.2644	-0.00162	3.15E-06	0.194401	0.603647	1.828776
3.86	0.2644	-0.00162	3.15E-06	0.194359	0.603519	1.828542
3.86	0.2644	-0.00162	3.15E-06	0.194318	0.603392	1.828309
3.86	0.2644	-0.00162	3.15E-06	0.194277	0.603265	1.828077
3.87	0.2644	-0.00162	3.15E-06	0.194237	0.603138	1.827845
3.87	0.2644	-0.00162	3.15E-06	0.194196	0.603011	1.827614
3.87	0.2644	-0.00162	3.15E-06	0.194155	0.602885	1.827383
3.87	0.2644	-0.00162	3.15E-06	0.194115	0.602759	1.827153
3.87	0.2644	-0.00162	3.15E-06	0.194074	0.602633	1.826923
3.87	0.2644	-0.00162	3.15E-06	0.194034	0.602508	1.826694
3.87	0.2644	-0.00162	3.15E-06	0.193993	0.602382	1.826465
3.87	0.2644	-0.00162	3.15E-06	0.193953	0.602258	1.826237
3.87	0.2644	-0.00162	3.15E-06	0.193913	0.602133	1.826009
3.87	0.2644	-0.00162	3.15E-06	0.193873	0.602009	1.825782
3.87	0.2644	-0.00162	3.15E-06	0.193833	0.601884	1.825556
3.87	0.2644	-0.00162	3.15E-06	0.193793	0.601761	1.82533
3.87	0.2644	-0.00162	3.15E-06	0.193753	0.601637	1.825104
3.87	0.2644	-0.00162	3.15E-06	0.193714	0.601514	1.824879
3.87	0.2644	-0.00162	3.15E-06	0.193674	0.601391	1.824654
3.87	0.2644	-0.00162	3.15E-06	0.193634	0.601268	1.82443
3.88	0.2644	-0.00162	3.15E-06	0.193595	0.601145	1.824207
3.88	0.2644	-0.00162	3.15E-06	0.193556	0.601023	1.823984
3.88	0.2644	-0.00162	3.15E-06	0.193516	0.600901	1.823761

3.88	0.2644	-0.00162	3.15E-06	0.193477	0.600779	1.823539
3.88	0.2644	-0.00162	3.15E-06	0.193438	0.600658	1.823318
3.88	0.2644	-0.00162	3.15E-06	0.193399	0.600536	1.823097
3.88	0.2644	-0.00162	3.15E-06	0.19336	0.600415	1.822876
3.88	0.2644	-0.00162	3.15E-06	0.193321	0.600295	1.822656
3.88	0.2644	-0.00162	3.15E-06	0.193282	0.600174	1.822436
3.88	0.2644	-0.00162	3.15E-06	0.193244	0.600054	1.822217
3.88	0.2644	-0.00162	3.15E-06	0.193205	0.599934	1.821999
3.88	0.2644	-0.00162	3.15E-06	0.193166	0.599814	1.82178
3.88	0.2644	-0.00162	3.15E-06	0.193128	0.599695	1.821563
3.88	0.2644	-0.00162	3.15E-06	0.193089	0.599575	1.821345
3.88	0.2644	-0.00162	3.15E-06	0.193051	0.599456	1.821129
3.88	0.2644	-0.00162	3.15E-06	0.193013	0.599338	1.820912
3.88	0.2644	-0.00162	3.15E-06	0.192975	0.599219	1.820697
3.89	0.2644	-0.00162	3.15E-06	0.192937	0.599101	1.820481
3.89	0.2644	-0.00162	3.15E-06	0.192899	0.598983	1.820266
3.89	0.2644	-0.00162	3.15E-06	0.192861	0.598865	1.820052
3.89	0.2644	-0.00162	3.15E-06	0.192823	0.598747	1.819838
3.89	0.2644	-0.00162	3.15E-06	0.192785	0.59863	1.819624
3.89	0.2644	-0.00162	3.15E-06	0.192747	0.598513	1.819411
3.89	0.2644	-0.00162	3.15E-06	0.19271	0.598396	1.819199
3.89	0.2644	-0.00162	3.15E-06	0.192672	0.59828	1.818987
3.89	0.2644	-0.00162	3.15E-06	0.192635	0.598163	1.818775
3.89	0.2644	-0.00162	3.15E-06	0.192597	0.598047	1.818564
3.89	0.2644	-0.00162	3.15E-06	0.19256	0.597931	1.818353
3.89	0.2644	-0.00162	3.15E-06	0.192523	0.597815	1.818142
3.89	0.2644	-0.00162	3.15E-06	0.192485	0.5977	1.817932
3.89	0.2644	-0.00162	3.15E-06	0.192448	0.597585	1.817723
3.89	0.2644	-0.00162	3.15E-06	0.192411	0.59747	1.817514
3.89	0.2644	-0.00162	3.15E-06	0.192374	0.597355	1.817305
3.89	0.2644	-0.00162	3.15E-06	0.192337	0.59724	1.817097
3.90	0.2644	-0.00162	3.15E-06	0.192301	0.597126	1.816889
3.90	0.2644	-0.00162	3.15E-06	0.192264	0.597012	1.816682
3.90	0.2644	-0.00162	3.15E-06	0.192227	0.596898	1.816475
3.90	0.2644	-0.00162	3.15E-06	0.19219	0.596784	1.816268
3.90	0.2644	-0.00162	3.15E-06	0.192154	0.596671	1.816062
3.90	0.2644	-0.00162	3.15E-06	0.192117	0.596557	1.815857
3.90	0.2644	-0.00162	3.15E-06	0.192081	0.596444	1.815652
3.90	0.2644	-0.00162	3.15E-06	0.192045	0.596332	1.815447
3.90	0.2644	-0.00162	3.15E-06	0.192008	0.596219	1.815242
3.90	0.2644	-0.00162	3.15E-06	0.191972	0.596107	1.815038
3.90	0.2644	-0.00162	3.15E-06	0.191936	0.595994	1.814835
3.90	0.2644	-0.00162	3.15E-06	0.1919	0.595882	1.814632
3.90	0.2644	-0.00162	3.15E-06	0.191864	0.595771	1.814429
3.90	0.2644	-0.00162	3.15E-06	0.191828	0.595659	1.814226
3.90	0.2644	-0.00162	3.15E-06	0.191792	0.595548	1.814024
3.90	0.2644	-0.00162	3.15E-06	0.191757	0.595437	1.813823
3.90	0.2644	-0.00162	3.15E-06	0.191721	0.595326	1.813622
3.90	0.2644	-0.00162	3.15E-06	0.191685	0.595215	1.813421
3.91	0.2644	-0.00162	3.15E-06	0.19165	0.595105	1.813221

3.91	0.2644	-0.00162	3.15E-06	0.191614	0.594994	1.813021
3.91	0.2644	-0.00162	3.15E-06	0.191579	0.594884	1.812821
3.91	0.2644	-0.00162	3.15E-06	0.191543	0.594774	1.812622
3.91	0.2644	-0.00162	3.15E-06	0.191508	0.594665	1.812423
3.91	0.2644	-0.00162	3.15E-06	0.191473	0.594555	1.812225
3.91	0.2644	-0.00162	3.15E-06	0.191438	0.594446	1.812027
3.91	0.2644	-0.00162	3.15E-06	0.191402	0.594337	1.811829
3.91	0.2644	-0.00162	3.15E-06	0.191367	0.594228	1.811632
3.91	0.2644	-0.00162	3.15E-06	0.191332	0.594119	1.811435
3.91	0.2644	-0.00162	3.15E-06	0.191297	0.594011	1.811239
3.91	0.2644	-0.00162	3.15E-06	0.191263	0.593903	1.811043
3.91	0.2644	-0.00162	3.15E-06	0.191228	0.593795	1.810847
3.91	0.2644	-0.00162	3.15E-06	0.191193	0.593687	1.810652
3.91	0.2644	-0.00162	3.15E-06	0.191158	0.593579	1.810457
3.91	0.2644	-0.00162	3.15E-06	0.191124	0.593472	1.810262
3.91	0.2644	-0.00162	3.15E-06	0.191089	0.593364	1.810068
3.91	0.2644	-0.00162	3.15E-06	0.191055	0.593257	1.809874
3.92	0.2644	-0.00162	3.15E-06	0.19102	0.59315	1.809681
3.92	0.2644	-0.00162	3.15E-06	0.190986	0.593044	1.809488
3.92	0.2644	-0.00162	3.15E-06	0.190952	0.592937	1.809295
3.92	0.2644	-0.00162	3.15E-06	0.190917	0.592831	1.809102
3.92	0.2644	-0.00162	3.15E-06	0.190883	0.592725	1.80891
3.92	0.2644	-0.00162	3.15E-06	0.190849	0.592619	1.808719
3.92	0.2644	-0.00162	3.15E-06	0.190815	0.592513	1.808528
3.92	0.2644	-0.00162	3.15E-06	0.190781	0.592407	1.808337
3.92	0.2644	-0.00162	3.15E-06	0.190747	0.592302	1.808146
3.92	0.2644	-0.00162	3.15E-06	0.190713	0.592197	1.807956
3.92	0.2644	-0.00162	3.15E-06	0.190679	0.592092	1.807766
3.92	0.2644	-0.00162	3.15E-06	0.190646	0.591987	1.807577
3.92	0.2644	-0.00162	3.15E-06	0.190612	0.591882	1.807387
3.92	0.2644	-0.00162	3.15E-06	0.190578	0.591778	1.807199
3.92	0.2644	-0.00162	3.15E-06	0.190545	0.591674	1.80701
3.92	0.2644	-0.00162	3.15E-06	0.190511	0.59157	1.806822
3.92	0.2644	-0.00162	3.15E-06	0.190478	0.591466	1.806634
3.92	0.2644	-0.00162	3.15E-06	0.190444	0.591362	1.806447
3.92	0.2644	-0.00162	3.15E-06	0.190411	0.591258	1.80626
3.92	0.2644	-0.00162	3.15E-06	0.190378	0.591155	1.806073
3.93	0.2644	-0.00162	3.15E-06	0.190344	0.591052	1.805887
3.93	0.2644	-0.00162	3.15E-06	0.190311	0.590949	1.805701
3.93	0.2644	-0.00162	3.15E-06	0.190278	0.590846	1.805515
3.93	0.2644	-0.00162	3.15E-06	0.190245	0.590743	1.80533
3.93	0.2644	-0.00162	3.15E-06	0.190212	0.590641	1.805145
3.93	0.2644	-0.00162	3.15E-06	0.190179	0.590538	1.80496
3.93	0.2644	-0.00162	3.15E-06	0.190146	0.590436	1.804776
3.93	0.2644	-0.00162	3.15E-06	0.190113	0.590334	1.804592
3.93	0.2644	-0.00162	3.15E-06	0.190081	0.590233	1.804408
3.93	0.2644	-0.00162	3.15E-06	0.190048	0.590131	1.804225
3.93	0.2644	-0.00162	3.15E-06	0.190015	0.590029	1.804042
3.93	0.2644	-0.00162	3.15E-06	0.189983	0.589928	1.803859
3.93	0.2644	-0.00162	3.15E-06	0.18995	0.589827	1.803677

3.93	0.2644	-0.00162	3.15E-06	0.189917	0.589726	1.803494
3.93	0.2644	-0.00162	3.15E-06	0.189885	0.589625	1.803313
3.93	0.2644	-0.00162	3.15E-06	0.189853	0.589525	1.803131
3.93	0.2644	-0.00162	3.15E-06	0.18982	0.589424	1.80295
3.93	0.2644	-0.00162	3.15E-06	0.189788	0.589324	1.802769
3.93	0.2644	-0.00162	3.15E-06	0.189756	0.589224	1.802589
3.93	0.2644	-0.00162	3.15E-06	0.189724	0.589124	1.802409
3.94	0.2644	-0.00162	3.15E-06	0.189691	0.589024	1.802229
3.94	0.2644	-0.00162	3.15E-06	0.189659	0.588925	1.80205
3.94	0.2644	-0.00162	3.15E-06	0.189627	0.588825	1.80187
3.94	0.2644	-0.00162	3.15E-06	0.189595	0.588726	1.801692
3.94	0.2644	-0.00162	3.15E-06	0.189563	0.588627	1.801513
3.94	0.2644	-0.00162	3.15E-06	0.189532	0.588528	1.801335
3.94	0.2644	-0.00162	3.15E-06	0.1895	0.588429	1.801157
3.94	0.2644	-0.00162	3.15E-06	0.189468	0.588331	1.800979
3.94	0.2644	-0.00162	3.15E-06	0.189436	0.588232	1.800802
3.94	0.2644	-0.00162	3.15E-06	0.189405	0.588134	1.800625
3.94	0.2644	-0.00162	3.15E-06	0.189373	0.588036	1.800448
3.94	0.2644	-0.00162	3.15E-06	0.189342	0.587938	1.800272
3.94	0.2644	-0.00162	3.15E-06	0.18931	0.58784	1.800096
3.94	0.2644	-0.00162	3.15E-06	0.189279	0.587742	1.79992
3.94	0.2644	-0.00162	3.15E-06	0.189247	0.587645	1.799744
3.94	0.2644	-0.00162	3.15E-06	0.189216	0.587547	1.799569
3.94	0.2644	-0.00162	3.15E-06	0.189184	0.58745	1.799394
3.94	0.2644	-0.00162	3.15E-06	0.189153	0.587353	1.79922
3.94	0.2644	-0.00162	3.15E-06	0.189122	0.587256	1.799045
3.94	0.2644	-0.00162	3.15E-06	0.189091	0.587159	1.798871
3.94	0.2644	-0.00162	3.15E-06	0.18906	0.587063	1.798698
3.95	0.2644	-0.00162	3.15E-06	0.189029	0.586966	1.798524
3.95	0.2644	-0.00162	3.15E-06	0.188998	0.58687	1.798351
3.95	0.2644	-0.00162	3.15E-06	0.188967	0.586774	1.798178
3.95	0.2644	-0.00162	3.15E-06	0.188936	0.586678	1.798006
3.95	0.2644	-0.00162	3.15E-06	0.188905	0.586582	1.797833
3.95	0.2644	-0.00162	3.15E-06	0.188874	0.586487	1.797661
3.95	0.2644	-0.00162	3.15E-06	0.188843	0.586391	1.79749
3.95	0.2644	-0.00162	3.15E-06	0.188813	0.586296	1.797318
3.95	0.2644	-0.00162	3.15E-06	0.188782	0.5862	1.797147
3.95	0.2644	-0.00162	3.15E-06	0.188751	0.586105	1.796976
3.95	0.2644	-0.00162	3.15E-06	0.188721	0.586011	1.796806
3.95	0.2644	-0.00162	3.15E-06	0.18869	0.585916	1.796636
3.95	0.2644	-0.00162	3.15E-06	0.18866	0.585821	1.796466
3.95	0.2644	-0.00162	3.15E-06	0.188629	0.585727	1.796296
3.95	0.2644	-0.00162	3.15E-06	0.188599	0.585632	1.796126
3.95	0.2644	-0.00162	3.15E-06	0.188569	0.585538	1.795957
3.95	0.2644	-0.00162	3.15E-06	0.188538	0.585444	1.795788
3.95	0.2644	-0.00162	3.15E-06	0.188508	0.58535	1.79562
3.95	0.2644	-0.00162	3.15E-06	0.188478	0.585256	1.795451
3.95	0.2644	-0.00162	3.15E-06	0.188448	0.585163	1.795283
3.95	0.2644	-0.00162	3.15E-06	0.188418	0.585069	1.795116
3.95	0.2644	-0.00162	3.15E-06	0.188388	0.584976	1.794948

3.96	0.2644	-0.00162	3.15E-06	0.188358	0.584883	1.794781
3.96	0.2644	-0.00162	3.15E-06	0.188328	0.58479	1.794614
3.96	0.2644	-0.00162	3.15E-06	0.188298	0.584697	1.794447
3.96	0.2644	-0.00162	3.15E-06	0.188268	0.584604	1.794281
3.96	0.2644	-0.00162	3.15E-06	0.188238	0.584512	1.794115
3.96	0.2644	-0.00162	3.15E-06	0.188208	0.584419	1.793949
3.96	0.2644	-0.00162	3.15E-06	0.188179	0.584327	1.793783
3.96	0.2644	-0.00162	3.15E-06	0.188149	0.584235	1.793618
3.96	0.2644	-0.00162	3.15E-06	0.188119	0.584143	1.793453
3.96	0.2644	-0.00162	3.15E-06	0.18809	0.584051	1.793288
3.96	0.2644	-0.00162	3.15E-06	0.18806	0.583959	1.793123
3.96	0.2644	-0.00162	3.15E-06	0.188031	0.583867	1.792959
3.96	0.2644	-0.00162	3.15E-06	0.188001	0.583776	1.792795
3.96	0.2644	-0.00162	3.15E-06	0.187972	0.583684	1.792631
3.96	0.2644	-0.00162	3.15E-06	0.187942	0.583593	1.792468
3.96	0.2644	-0.00162	3.15E-06	0.187913	0.583502	1.792304
3.96	0.2644	-0.00162	3.15E-06	0.187884	0.583411	1.792141
3.96	0.2644	-0.00162	3.15E-06	0.187855	0.58332	1.791979
3.96	0.2644	-0.00162	3.15E-06	0.187825	0.58323	1.791816
3.96	0.2644	-0.00162	3.15E-06	0.187796	0.583139	1.791654
3.96	0.2644	-0.00162	3.15E-06	0.187767	0.583049	1.791492
3.96	0.2644	-0.00162	3.15E-06	0.187738	0.582958	1.79133
3.96	0.2644	-0.00162	3.15E-06	0.187709	0.582868	1.791169
3.97	0.2644	-0.00162	3.15E-06	0.18768	0.582778	1.791007
3.97	0.2644	-0.00162	3.15E-06	0.187651	0.582688	1.790846
3.97	0.2644	-0.00162	3.15E-06	0.187622	0.582599	1.790686
3.97	0.2644	-0.00162	3.15E-06	0.187593	0.582509	1.790525
3.97	0.2644	-0.00162	3.15E-06	0.187564	0.582419	1.790365
3.97	0.2644	-0.00162	3.15E-06	0.187536	0.58233	1.790205
3.97	0.2644	-0.00162	3.15E-06	0.187507	0.582241	1.790045
3.97	0.2644	-0.00162	3.15E-06	0.187478	0.582152	1.789886
3.97	0.2644	-0.00162	3.15E-06	0.18745	0.582063	1.789726
3.97	0.2644	-0.00162	3.15E-06	0.187421	0.581974	1.789567
3.97	0.2644	-0.00162	3.15E-06	0.187392	0.581885	1.789409
3.97	0.2644	-0.00162	3.15E-06	0.187364	0.581797	1.78925
3.97	0.2644	-0.00162	3.15E-06	0.187335	0.581708	1.789092

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