

Test Report

Sample Name : PL BP V

Model Name : PLC-9-V-830-BYP

Applicant : R & D Department

Test Category: Commission Test

RAB Lighting Inc.

Statement

- i. Report without "special seal for testing report" or "official seal of testing lab" is invalid.
- ii. Report modified without signature is invalid.
- iii. Report without signature of inspector, reviewer, approver is invalid.
- iv. Once objection to testing report, it should be within 15 days from the date of receipt of the report. Once beyond the time limit, there will be not accepted.
- v. Laboratory only responsible for test items of of the delivered samples
- vi. Without permission of the lab, this report shall not be arbitrarily change or part of the reference. In any form copy, copy of duplicate agreed, it should be recognized by my lab with special seal for testing. It is invalid without the seal of lab.

Test Report

Sample Name	PL BP V	Model Name	PLC-9-V-830-BYP
		Logo	—
Client	R & D Department	Testing category	Commission Test
Manufacturer	RAB LIGHTING INC	Testing site	Laboratory
Deliverer	Wang Yang	Sample quantity	1pc
Application date	Oct.15,2018	Finished date	Oct.15,2018
Testing Standard	☒ IES-LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products ☐ ANSI C78.377-2011 specifications for the chromaticity of solid state lighting products ☐ ANSI C78.377-2015 specifications for the chromaticity of solid state lighting products ☐ IEC 62612:2013+A1 :2015 Self-ballasted LED-lamps for general lighting services –Performance requirements ☐ CIE 127 : 2007 Measurement of LEDs ☐ Others_____		
Testing Items	☐ Photoelectric color performance parameters (☐ Luminous flux ; ☐ Efficiency ; ☐ Voltage ; ☐ Current ; ☐ Power ; ☐ Power factor ; ☐ Color renderings ; ☐ Ra ; ☐ Others_____) ☒ Lighting distribution (☐ Center lighting intensity ; ☒ light intensity distribution ; ☒ IES file (attachment) ; ☐ Others_____) ☐ Mantianance (☐ Color Mantianance ; ☐ Lumen Mantianance) ☐ On/off test ; ☐ Others_____		
Conclusion	Please refer to test result.		
Note	-		
Tested by :	Reviewed by:	Approved by:	
Date :	Date:	Date:	

Sample description

Products general description

- (1) Rated Voltage (V) : 120
- (2) Rated Current (A) : —
- (3) Rated Power (W) : —
- (4) Rated Frequency (Hz) : 60
- (5) Lamp Cap: ☐G13; ☐G5; ☐2G11; ☐Fa8; ☐R17d;
 ☒Others: G24d
- (6) Bulb Type: ☐Straight type ; ☐T8U type (☐Big U; ☐Small U) ;
 ☒Single ended (☒PL; ☐PLL) ☐Others:
- (7) Lamp Length: ☐2ft; ☐3ft; ☐4ft; ☐5 ft; ☐6 ft; ☐8 ft;
 ☒Other : PL
- (8) Lighting Source: ☒LED; ☐Others:
- (9) Supply Type: ☒BP; ☐DR; ☐DC power supply; ☐External power
 supply; ☐Others:

Testing Equipment

No.	Equipment	Type/model	Serial	Due to
1	□Spectroradiometer	HAAS-2000	LB1O-004	-
2	□DC Power Supply	WY12010	LB1E-005	-
3	□Source Meter	2400	LB1E-055	-
4	□Integrating Sphere	0.5m	LB1O-007	-
5	□Standard Lamp	D062	LB1O-030	-
6	□Spectroradiometer	HAAS-2000	LB1O-005	-
7	□DC Current Source	WY305	LB1E-017	-
8	□Power Meter	PF2010A	LB1E-018	-
9	□AC Source	CF-500T	LB1E-016	-
10	□Integrating Sphere	1.5m	LB1O-009	-
11	□Spectroradiometer	HAAS-2000	LB1O-003	-
12	□DC Current Source	WY605	LB1E-003	-
13	□Power Meter	PF2010A	LB1E-007	-
14	□AC Source	CF-500T	LB1E-010	-
15	□Integrating Sphere	2.0m-1	LB1O-006	-
16	□Spectroradiometer	PMS-80	LB1O-031	-
17	□DC Current Source	WY305	LB1E-043	-
18	□Power Meter	WT210	LB1E-042	-
19	□AC Source	TPS-500B	LB1E-044	-
20	□Integrating Sphere	2.0m-2	LB1O-033	-
21	□ Spectroradiometer	HAAS-1200	LB1O-032	-
22	□ DC Power Supply	WY605-V110	LB1E-056	-
23	□Digital Power Meter	WT210	LB1E-047	-
24	□AC Power supply	CF-500T	LB1E-048	-
25	□Integrating Sphere	2.0m-3	LB1O-034	-
26	□Spectroradiometer	HAAS-2000	LB1O-021	-
27	□ DC Power Supply	WY12010	LB1E-022	-
28	□Digital Power Meter	PF2010	LB1E-023	-
29	□AC Power supply	DPS1005	LB1E-021	-
30	□Standard Lamp	D204	LB1O-012	-
31	□Integrating Sphere	3.0m	LB1O-029	-

32	☒ Goniophotometer	GO-R5000	LB1O-001	Jul.2,2020
33	☒ DC Power Supply	WY12010	LB1E-004	Nov.7,2018
34	☒ Digital Power Meter	PF2010	LB1E-009	Nov.7,2018
35	☒ AC Power supply	DPS1060	LB1E-014	May.5,2019
36	☒ Standard Lamp	D908S	LB1O-011	Mar.15,2019
37	☐ High frequency reference source	YF2402	LB1E-024	-
38	☐ Digital Power Meter	WT3000	LB1E-008	-
39	☐ Dial caliper	0-150mm	LB3L-020	-
40	☐ Balance	ACS-D11	LB3F-003	-
41	☒ Humidity temperature meter	TP401	LB1T-003	Jul.5,2019
42	☐ Humidity temperature meter	TP401	LB1T-004	-
43	☐ Humidity temperature meter	LS-202	LB1T-010	-
44	☒ Humidity temperature meter	LS202	LB1T-011	Jul.5,2019

Test Result

No.	Testing items	Testing standard	Testing results	Verdict
1	Photoelectric color performance parameters	—	—	—
2	Lighting distribution	IES LM-79-08	See following pages	—
3	Maintanance	—	—	—
4	On/off test	—	—	—

Note : “N” —Not applicable; “P” —Pass; “F” —Fail; “—” —No need to verdict.

1. Lighting distribution**1.1 Testing conditions****Distributed photometric system**

Test standard	Incorporated ballast	Environment condition	Integrated correction factor	Test input
IES LM-79-08	☒ No ☐ Yes: _____	Ambient Temp.: <u>24.6°C</u> Ambient Humidity: <u>52.6%RH</u>	1	Voltage: <u>120V</u> Frequency: <u>60Hz</u>
Orientation in measurement for SSL Product	Burning time before test(min)	Luminaire dimension	Lamp quantity (*1)	Photometric distance (*2)
Downward	30	-	1	☒ Near field; ☐ Far field

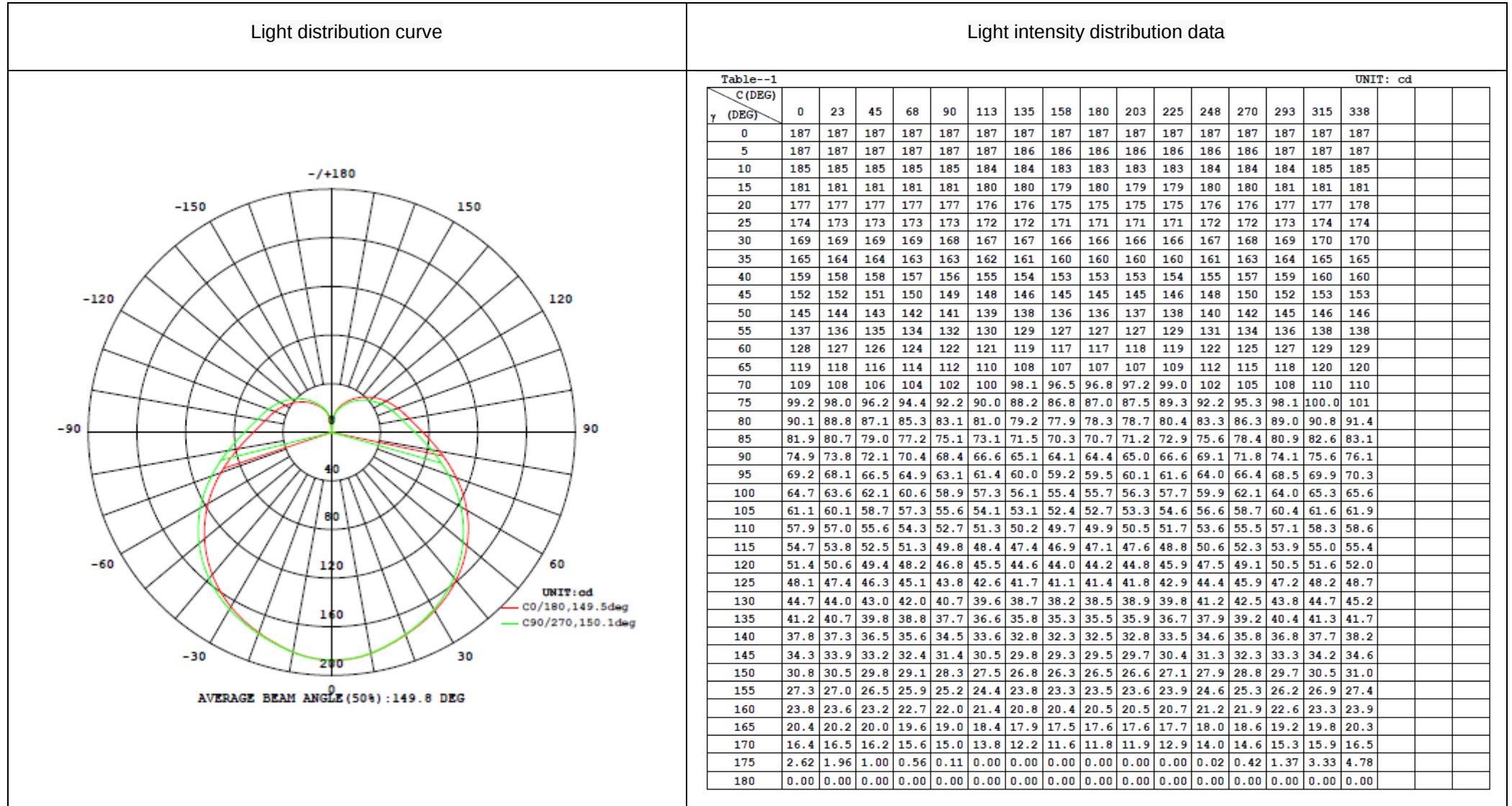
“*1”—The amount of lighting source mounted in luminaire for measurement, such as measuring an individual light source, the quantity is 1pcs

“*2”— Near field: 2.5m; Far field: 30m;

1.2 Photometric data

Input voltage	Input current	Power	Power factor
120.0V	0.0750A	8.916W	0.9908
Luminous flux	Luminous efficiency	Average beam angle	
-	-	149.8DEG	

2.3 Lighting distribution data

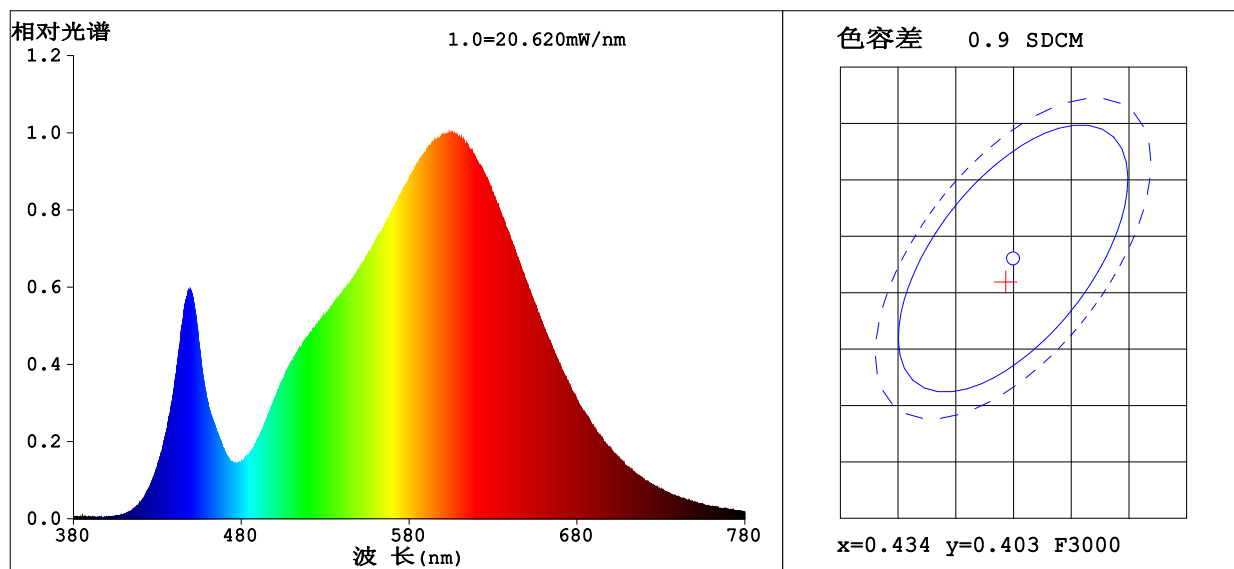


Photos



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光源光谱测试报告



颜色参数:

色品坐标: $x=0.4333$ $y=0.4012$ / $u'=0.2494$ $v'=0.5197$

相关色温: $CCT=3040K$ (色差 $Duv=-0.0006$) 主波长: $\lambda_d=582.9nm$ 色纯度: $Purity=50.5\%$

色比: $R=22.6\%$ $G=75.1\%$ $B=2.3\%$ 峰值波长: $\lambda_p=605.7nm$ 半峰带宽: $FWHM=135.1nm$

显色指数: $Ra=82.1$ $CRI=76.3$ $AvgR=76.1$

$R1=80$ $R2=89$ $R3=96$ $R4=81$ $R5=80$ $R6=85$ $R7=84$

$R8=61$ $R9=10$ $R10=74$ $R11=80$ $R12=68$ $R13=82$ $R14=97$ $R15=74$

光度参数:

光通量 $\Phi = 1031 lm$ 光效: $117.68 lm/W$ 辐射通量 $\Phi_e = 3.180 W$

电参数:

电压 $V = 120.06 V$ 电流 $I = 0.07344 A$ 功率 $P = 8.765 W$ 功率因数 $PF = 0.9941$

分级: OUT 白光分类: ANSI_3000K

仪器状态: 积分时间 $T = 2000 ms$ $Ip = 55918 (85\%)$

产品型号: PLC-9-V-830-BYP

测试人员: zhenhai wu

环境温度: $24.7^{\circ}C$

制造厂商: RAB Lighting Inc

产品编号: 1-1

测试日期: 2018-10-10 17:35:13

环境湿度: 60%

备注:

IESNA:LM-63-2002

[TEST] 181015007SX01

[TESTLAB] EVERFINE

[TESTDATE] 2018-10-15

[ISSUEDATE] 2018-10-15 10:24:42

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] RAB

[LUMINAIRE] PLC-9-V-830-BYP

[LAMP] PL BP V/PLC-9-V-830-BYP

TILT=NONE

1 1078.3 1 361 17 1 2 0.000 0.000 0.000

1.000 1 8.9

0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5
10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5
15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5
20.0	20.5	21.0	21.5	22.0	22.5	23.0	23.5	24.0	24.5
25.0	25.5	26.0	26.5	27.0	27.5	28.0	28.5	29.0	29.5
30.0	30.5	31.0	31.5	32.0	32.5	33.0	33.5	34.0	34.5
35.0	35.5	36.0	36.5	37.0	37.5	38.0	38.5	39.0	39.5
40.0	40.5	41.0	41.5	42.0	42.5	43.0	43.5	44.0	44.5
45.0	45.5	46.0	46.5	47.0	47.5	48.0	48.5	49.0	49.5
50.0	50.5	51.0	51.5	52.0	52.5	53.0	53.5	54.0	54.5
55.0	55.5	56.0	56.5	57.0	57.5	58.0	58.5	59.0	59.5
60.0	60.5	61.0	61.5	62.0	62.5	63.0	63.5	64.0	64.5
65.0	65.5	66.0	66.5	67.0	67.5	68.0	68.5	69.0	69.5
70.0	70.5	71.0	71.5	72.0	72.5	73.0	73.5	74.0	74.5
75.0	75.5	76.0	76.5	77.0	77.5	78.0	78.5	79.0	79.5
80.0	80.5	81.0	81.5	82.0	82.5	83.0	83.5	84.0	84.5
85.0	85.5	86.0	86.5	87.0	87.5	88.0	88.5	89.0	89.5
90.0	90.5	91.0	91.5	92.0	92.5	93.0	93.5	94.0	94.5
95.0	95.5	96.0	96.5	97.0	97.5	98.0	98.5	99.0	99.5
100.0	100.5	101.0	101.5	102.0	102.5	103.0	103.5	104.0	104.5
105.0	105.5	106.0	106.5	107.0	107.5	108.0	108.5	109.0	109.5
110.0	110.5	111.0	111.5	112.0	112.5	113.0	113.5	114.0	114.5
115.0	115.5	116.0	116.5	117.0	117.5	118.0	118.5	119.0	119.5
120.0	120.5	121.0	121.5	122.0	122.5	123.0	123.5	124.0	124.5
125.0	125.5	126.0	126.5	127.0	127.5	128.0	128.5	129.0	129.5
130.0	130.5	131.0	131.5	132.0	132.5	133.0	133.5	134.0	134.5
135.0	135.5	136.0	136.5	137.0	137.5	138.0	138.5	139.0	139.5
140.0	140.5	141.0	141.5	142.0	142.5	143.0	143.5	144.0	144.5
145.0	145.5	146.0	146.5	147.0	147.5	148.0	148.5	149.0	149.5

150.0	150.5	151.0	151.5	152.0	152.5	153.0	153.5	154.0	154.5
155.0	155.5	156.0	156.5	157.0	157.5	158.0	158.5	159.0	159.5
160.0	160.5	161.0	161.5	162.0	162.5	163.0	163.5	164.0	164.5
165.0	165.5	166.0	166.5	167.0	167.5	168.0	168.5	169.0	169.5
170.0	170.5	171.0	171.5	172.0	172.5	173.0	173.5	174.0	174.5
175.0	175.5	176.0	176.5	177.0	177.5	178.0	178.5	179.0	179.5
180.0									
0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
225.0	247.5	270.0	292.5	315.0	337.5	360.0			
187.42	187.40	187.41	187.30	187.36	187.19	187.27	187.07	187.01	
186.82									
186.81	186.54	186.42	186.19	186.07	185.79	185.63	185.26	185.10	
184.69									
184.51	184.13	183.83	183.43	183.14	182.71	182.37	181.90	181.58	
181.15									
180.82	180.34	180.04	179.57	179.28	178.78	178.46	177.96	177.64	
177.19									
176.83	176.34	176.02	175.58	175.25	174.73	174.39	173.96	173.54	
173.07									
172.67	172.21	171.85	171.29	170.91	170.40	169.99	169.47	169.02	
168.45									
168.00	167.43	166.98	166.42	165.97	165.33	164.85	164.26	163.70	
163.03									
162.53	161.91	161.38	160.64	160.07	159.40	158.86	158.11	157.50	
156.78									
156.13	155.45	154.77	154.05	153.35	152.61	151.90	151.12	150.44	
149.59									
148.91	148.09	147.39	146.49	145.75	144.93	144.15	143.26	142.47	
141.62									
140.78	139.88	139.09	138.17	137.38	136.38	135.57	134.61	133.78	
132.80									
131.90	130.97	130.11	129.09	128.19	127.24	126.31	125.27	124.34	
123.36									
122.44	121.35	120.50	119.49	118.48	117.43	116.44	115.42	114.46	
113.37									
112.42	111.39	110.41	109.33	108.33	107.26	106.29	105.19	104.20	
103.16									
102.21	101.12	100.14	99.13	98.16	97.09	96.13	95.12	94.20	
93.17									
92.24	91.28	90.35	89.37	88.48	87.57	86.66	85.73	84.85	
83.95									
83.10	82.26	81.43	80.60	79.78	78.95	78.18	77.35	76.61	
75.84									
75.14	74.38	73.67	72.97	72.29	71.60	70.96	70.27	69.66	

68.99								
68.44	67.81	67.24	66.66	66.12	65.55	65.04	64.50	64.03
63.53								
63.06	62.57	62.14	61.70	61.26	60.81	60.42	60.02	59.65
59.26								
58.90	58.53	58.19	57.85	57.51	57.16	56.86	56.55	56.24
55.92								
55.63	55.32	55.03	54.73	54.45	54.14	53.86	53.56	53.28
52.98								
52.70	52.41	52.12	51.82	51.53	51.24	50.95	50.65	50.37
50.08								
49.79	49.49	49.19	48.90	48.59	48.30	48.00	47.71	47.40
47.12								
46.82	46.52	46.22	45.91	45.62	45.31	45.00	44.69	44.40
44.09								
43.80	43.49	43.19	42.87	42.58	42.27	41.95	41.65	41.35
41.06								
40.75	40.43	40.12	39.82	39.51	39.21	38.88	38.58	38.27
37.97								
37.65	37.36	37.03	36.71	36.41	36.10	35.78	35.47	35.17
34.86								
34.53	34.23	33.92	33.61	33.30	32.99	32.68	32.36	32.05
31.73								
31.42	31.11	30.80	30.48	30.17	29.85	29.55	29.22	28.91
28.60								
28.28	27.97	27.67	27.35	27.02	26.71	26.40	26.08	25.77
25.45								
25.16	24.83	24.51	24.21	23.89	23.57	23.26	22.96	22.63
22.31								
22.02	21.72	21.41	21.10	20.79	20.49	20.19	19.89	19.57
19.29								
18.99	18.68	18.37	18.07	17.76	17.44	17.10	16.75	16.29
15.72								
15.05	14.31	13.48	12.52	11.45	9.58	7.69	5.80	3.91
1.26								
0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.44	187.37	187.34	187.31	187.23	187.10	187.01	186.96
186.79								
186.62	186.43	186.28	186.02	185.85	185.63	185.36	185.07	184.81
184.50								
184.14	183.84	183.49	183.14	182.76	182.38	182.02	181.60	181.21
180.80								

180.40	179.98	179.63	179.24	178.80	178.41	178.04	177.61	177.24
176.79								
176.41	176.03	175.62	175.16	174.76	174.39	173.91	173.54	173.05
172.66								
172.18	171.75	171.28	170.83	170.31	169.85	169.40	168.97	168.36
167.90								
167.34	166.85	166.25	165.72	165.21	164.68	164.05	163.45	162.88
162.30								
161.68	161.05	160.42	159.83	159.12	158.50	157.83	157.25	156.48
155.86								
155.07	154.42	153.63	152.94	152.23	151.56	150.72	149.95	149.22
148.47								
147.61	146.83	146.02	145.23	144.33	143.56	142.71	141.93	141.03
140.22								
139.25	138.46	137.54	136.67	135.77	134.89	133.91	133.01	132.10
131.22								
130.20	129.31	128.36	127.43	126.36	125.48	124.48	123.55	122.49
121.51								
120.51	119.54	118.48	117.52	116.49	115.49	114.44	113.45	112.39
111.40								
110.31	109.33	108.28	107.28	106.20	105.18	104.13	103.12	102.02
101.06								
100.04	99.05	97.92	96.98	95.95	94.98	93.94	93.01	92.02
91.06								
90.03	89.10	88.15	87.24	86.32	85.38	84.52	83.63	82.69
81.85								
81.00	80.17	79.31	78.51	77.68	76.92	76.09	75.36	74.59
73.86								
73.07	72.39	71.68	71.01	70.34	69.66	69.01	68.35	67.73
67.15								
66.55	65.97	65.40	64.87	64.32	63.81	63.26	62.78	62.33
61.83								
61.35	60.91	60.48	60.05	59.62	59.21	58.82	58.45	58.06
57.71								
57.34	56.99	56.64	56.31	55.99	55.65	55.36	55.04	54.74
54.44								
54.15	53.86	53.57	53.27	52.99	52.72	52.43	52.14	51.85
51.58								
51.31	51.01	50.71	50.43	50.16	49.86	49.59	49.29	49.01
48.72								
48.43	48.14	47.85	47.57	47.28	46.98	46.70	46.41	46.12
45.83								
45.54	45.24	44.95	44.65	44.36	44.07	43.77	43.48	43.18
42.87								

42.58	42.30	42.00	41.69	41.39	41.09	40.80	40.49	40.20
39.90								
39.60	39.31	39.01	38.70	38.40	38.11	37.81	37.51	37.20
36.89								
36.59	36.30	36.00	35.69	35.37	35.08	34.77	34.48	34.17
33.86								
33.56	33.26	32.95	32.64	32.34	32.04	31.73	31.42	31.10
30.81								
30.51	30.20	29.89	29.60	29.29	28.98	28.67	28.37	28.06
27.76								
27.45	27.14	26.83	26.51	26.21	25.91	25.63	25.30	25.00
24.70								
24.39	24.07	23.77	23.48	23.17	22.86	22.55	22.24	21.96
21.65								
21.36	21.05	20.75	20.46	20.16	19.85	19.58	19.29	19.00
18.69								
18.40	18.11	17.81	17.50	17.18	16.85	16.43	15.89	15.27
14.58								
13.83	13.02	12.12	11.16	9.61	8.03	6.46	4.88	2.05
0.28								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.48	187.40	187.39	187.26	187.20	187.05	186.99	186.79
186.70								
186.41	186.33	186.06	185.95	185.57	185.39	185.04	184.87	184.47
184.23								
183.86	183.55	183.14	182.80	182.34	182.06	181.53	181.21	180.73
180.45								
179.94	179.65	179.15	178.83	178.37	178.03	177.52	177.21	176.69
176.41								
175.89	175.58	175.02	174.71	174.17	173.87	173.32	172.98	172.43
172.13								
171.55	171.20	170.62	170.24	169.62	169.24	168.62	168.22	167.62
167.19								
166.58	166.09	165.42	164.95	164.35	163.81	163.09	162.59	161.94
161.37								
160.69	160.15	159.39	158.87	158.05	157.48	156.68	156.12	155.33
154.71								
153.88	153.25	152.44	151.79	150.95	150.27	149.43	148.71	147.86
147.15								
146.29	145.51	144.67	143.87	142.95	142.14	141.27	140.44	139.54
138.69								
137.77	136.92	136.02	135.08	134.15	133.29	132.35	131.41	130.45

129.54								
128.55	127.63	126.62	125.69	124.65	123.72	122.70	121.73	120.70
119.75								
118.70	117.73	116.64	115.63	114.59	113.58	112.61	111.55	110.52
109.47								
108.45	107.41	106.34	105.27	104.30	103.25	102.20	101.15	100.14
99.13								
98.12	97.06	96.03	95.04	94.03	93.03	92.02	91.06	90.10
89.13								
88.16	87.22	86.28	85.41	84.45	83.55	82.64	81.80	80.89
80.07								
79.20	78.43	77.55	76.76	75.93	75.17	74.41	73.66	72.91
72.20								
71.49	70.77	70.09	69.42	68.75	68.11	67.47	66.86	66.23
65.65								
65.08	64.52	63.98	63.43	62.91	62.40	61.91	61.44	60.95
60.50								
60.02	59.62	59.17	58.79	58.37	57.99	57.59	57.24	56.87
56.52								
56.15	55.83	55.49	55.16	54.84	54.55	54.24	53.94	53.64
53.36								
53.07	52.77	52.49	52.21	51.94	51.65	51.36	51.09	50.79
50.53								
50.24	49.98	49.67	49.41	49.10	48.84	48.53	48.26	47.98
47.71								
47.42	47.14	46.86	46.59	46.29	46.02	45.72	45.43	45.14
44.86								
44.56	44.28	44.00	43.71	43.42	43.13	42.84	42.56	42.26
41.97								
41.67	41.37	41.07	40.78	40.49	40.20	39.92	39.62	39.34
39.03								
38.73	38.45	38.15	37.84	37.55	37.26	36.95	36.66	36.36
36.07								
35.77	35.48	35.18	34.87	34.59	34.29	33.98	33.69	33.40
33.09								
32.78	32.48	32.19	31.89	31.59	31.30	31.00	30.69	30.40
30.10								
29.79	29.48	29.18	28.88	28.58	28.27	27.98	27.68	27.37
27.08								
26.77	26.47	26.16	25.88	25.57	25.26	24.97	24.66	24.37
24.06								
23.77	23.46	23.17	22.86	22.57	22.26	21.97	21.67	21.39
21.10								
20.79	20.50	20.20	19.92	19.62	19.33	19.05	18.77	18.49

18.19								
17.92	17.60	17.25	16.82	16.36	15.84	15.32	14.77	14.07
13.18								
12.20	11.06	9.69	8.31	6.93	5.55	3.88	2.03	0.54
0.04								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.43	187.29	187.25	187.16	187.09	186.92	186.82	186.61
186.51								
186.24	186.10	185.81	185.67	185.34	185.12	184.77	184.48	184.09
183.81								
183.39	183.12	182.67	182.37	181.90	181.60	181.16	180.74	180.30
179.96								
179.45	179.11	178.68	178.33	177.86	177.49	177.06	176.67	176.15
175.83								
175.33	174.97	174.49	174.12	173.62	173.26	172.71	172.35	171.81
171.42								
170.86	170.46	169.89	169.51	168.94	168.47	167.87	167.42	166.86
166.34								
165.71	165.22	164.59	164.09	163.45	162.90	162.23	161.64	161.01
160.41								
159.73	159.15	158.42	157.83	157.05	156.42	155.66	155.05	154.27
153.57								
152.78	152.14	151.33	150.62	149.84	149.09	148.23	147.48	146.60
145.87								
145.04	144.27	143.41	142.57	141.69	140.92	139.98	139.15	138.15
137.35								
136.39	135.61	134.62	133.75	132.80	131.91	130.90	129.99	129.05
128.13								
127.10	126.20	125.14	124.26	123.19	122.27	121.25	120.24	119.22
118.24								
117.23	116.19	115.19	114.17	113.12	112.13	111.04	110.05	108.98
107.97								
106.91	105.87	104.84	103.82	102.77	101.70	100.68	99.67	98.62
97.63								
96.53	95.58	94.53	93.62	92.55	91.54	90.61	89.60	88.69
87.68								
86.80	85.83	84.93	84.01	83.10	82.21	81.35	80.47	79.61
78.74								
77.93	77.15	76.35	75.54	74.73	74.00	73.21	72.51	71.71
71.08								
70.32	69.68	68.97	68.36	67.70	67.09	66.45	65.85	65.25
64.71								

64.14	63.59	63.06	62.52	62.05	61.54	61.05	60.57	60.11
59.66								
59.23	58.82	58.40	58.02	57.61	57.27	56.86	56.52	56.13
55.82								
55.45	55.16	54.83	54.51	54.21	53.92	53.61	53.33	53.01
52.76								
52.43	52.19	51.88	51.62	51.33	51.05	50.77	50.50	50.23
49.94								
49.68	49.39	49.11	48.85	48.56	48.28	47.98	47.70	47.40
47.13								
46.86	46.60	46.30	46.03	45.73	45.44	45.16	44.88	44.59
44.30								
44.00	43.74	43.44	43.17	42.88	42.60	42.29	42.02	41.71
41.42								
41.15	40.86	40.57	40.28	40.00	39.69	39.40	39.11	38.81
38.53								
38.23	37.94	37.64	37.35	37.05	36.78	36.47	36.18	35.88
35.59								
35.29	35.00	34.69	34.41	34.11	33.80	33.50	33.20	32.92
32.62								
32.31	32.02	31.74	31.42	31.13	30.83	30.52	30.23	29.93
29.63								
29.35	29.04	28.75	28.43	28.14	27.82	27.55	27.21	26.93
26.63								
26.34	26.05	25.73	25.43	25.13	24.84	24.56	24.23	23.96
23.65								
23.33	23.05	22.75	22.45	22.15	21.87	21.57	21.28	20.99
20.70								
20.40	20.11	19.83	19.54	19.24	18.97	18.68	18.40	18.11
17.83								
17.54	17.22	16.92	16.57	16.15	15.65	15.09	14.48	13.72
12.79								
11.65	8.44	5.23	2.01	0.58	1.87	2.73	1.29	0.06
0.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.46	187.29	187.31	187.21	187.11	186.94	186.86	186.70
186.55								
186.28	186.12	185.86	185.65	185.36	185.13	184.78	184.58	184.14
183.91								
183.45	183.18	182.70	182.41	181.92	181.55	181.08	180.84	180.33
180.02								
179.52	179.17	178.73	178.36	177.86	177.51	177.07	176.71	176.23

175.79								
175.35	174.95	174.51	174.09	173.60	173.24	172.74	172.36	171.81
171.40								
170.88	170.46	169.91	169.44	168.87	168.48	167.82	167.42	166.76
166.34								
165.67	165.21	164.52	164.06	163.37	162.87	162.16	161.65	160.96
160.35								
159.70	159.03	158.35	157.67	157.04	156.31	155.67	154.96	154.28
153.52								
152.75	152.06	151.26	150.57	149.73	149.03	148.13	147.48	146.58
145.86								
144.95	144.24	143.34	142.58	141.66	140.85	139.96	139.10	138.24
137.36								
136.45	135.51	134.70	133.73	132.90	131.91	130.99	130.09	129.14
128.15								
127.12	126.28	125.26	124.36	123.30	122.40	121.32	120.51	119.28
118.50								
117.28	116.41	115.25	114.35	113.27	112.32	111.25	110.20	109.21
108.16								
107.13	106.04	105.11	103.95	103.07	101.88	100.97	99.87	98.89
97.82								
96.81	95.79	94.76	93.84	92.73	91.91	90.79	89.99	88.84
88.04								
87.03	86.14	85.13	84.30	83.33	82.53	81.62	80.76	79.91
79.04								
78.28	77.35	76.63	75.81	75.06	74.25	73.50	72.74	72.06
71.30								
70.66	69.94	69.32	68.61	67.97	67.34	66.73	66.14	65.48
64.95								
64.37	63.85	63.28	62.79	62.30	61.75	61.30	60.80	60.39
59.91								
59.46	59.05	58.63	58.22	57.85	57.45	57.12	56.72	56.37
56.01								
55.70	55.35	55.06	54.73	54.43	54.13	53.80	53.55	53.23
52.97								
52.66	52.39	52.10	51.83	51.54	51.28	51.01	50.73	50.46
50.17								
49.90	49.61	49.34	49.05	48.78	48.50	48.23	47.93	47.69
47.36								
47.13	46.80	46.54	46.26	45.97	45.71	45.38	45.14	44.80
44.58								
44.23	43.99	43.67	43.42	43.11	42.82	42.56	42.22	41.98
41.63								
41.41	41.06	40.80	40.48	40.22	39.92	39.64	39.32	39.06

38.73								
38.46	38.14	37.88	37.55	37.27	36.96	36.68	36.39	36.09
35.80								
35.50	35.21	34.91	34.60	34.32	34.01	33.72	33.40	33.14
32.81								
32.54	32.21	31.93	31.60	31.33	31.01	30.73	30.43	30.15
29.82								
29.55	29.21	28.95	28.62	28.35	28.01	27.72	27.41	27.12
26.81								
26.52	26.21	25.91	25.60	25.31	25.01	24.69	24.39	24.09
23.79								
23.50	23.19	22.91	22.61	22.32	22.01	21.70	21.39	21.08
20.78								
20.48	20.19	19.90	19.61	19.32	19.03	18.74	18.45	18.16
17.88								
17.57	17.23	16.83	16.35	15.83	15.29	14.76	14.14	13.46
12.70								
11.78	10.73	9.62	8.35	6.80	4.54	2.07	0.55	0.15
0.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.32	187.34	187.16	187.15	186.98	186.95	186.67	186.60
186.32								
186.30	185.96	185.78	185.52	185.33	184.91	184.67	184.28	184.04
183.58								
183.33	182.84	182.58	182.09	181.78	181.29	181.05	180.47	180.18
179.70								
179.40	178.86	178.54	178.06	177.75	177.24	176.89	176.39	176.07
175.58								
175.21	174.74	174.36	173.93	173.52	173.05	172.61	172.15	171.69
171.23								
170.75	170.28	169.79	169.28	168.77	168.24	167.77	167.19	166.70
166.09								
165.63	164.99	164.51	163.81	163.39	162.61	162.15	161.43	160.90
160.15								
159.64	158.89	158.33	157.59	157.00	156.23	155.62	154.83	154.19
153.45								
152.70	151.99	151.24	150.52	149.71	148.98	148.20	147.41	146.63
145.78								
145.05	144.19	143.42	142.47	141.81	140.80	140.13	139.07	138.36
137.41								
136.62	135.55	134.80	133.85	133.00	132.00	131.11	130.17	129.25
128.31								

127.38	126.46	125.54	124.46	123.53	122.53	121.58	120.55	119.60
118.58								
117.65	116.56	115.65	114.56	113.60	112.52	111.54	110.46	109.55
108.46								
107.45	106.41	105.46	104.37	103.35	102.27	101.33	100.23	99.25
98.22								
97.24	96.19	95.20	94.20	93.26	92.26	91.33	90.29	89.39
88.39								
87.52	86.56	85.67	84.72	83.85	82.97	82.10	81.25	80.35
79.57								
78.71	77.92	77.09	76.32	75.56	74.78	74.06	73.29	72.59
71.85								
71.20	70.47	69.84	69.13	68.51	67.87	67.28	66.66	66.09
65.49								
64.95	64.38	63.88	63.30	62.85	62.29	61.88	61.35	60.95
60.46								
60.07	59.63	59.23	58.80	58.45	58.02	57.69	57.28	56.96
56.61								
56.29	55.96	55.65	55.32	55.01	54.70	54.38	54.10	53.82
53.52								
53.26	52.96	52.70	52.41	52.15	51.82	51.59	51.27	51.02
50.70								
50.46	50.16	49.91	49.60	49.33	49.03	48.78	48.46	48.22
47.90								
47.63	47.33	47.06	46.76	46.50	46.20	45.92	45.61	45.33
45.04								
44.76	44.45	44.19	43.88	43.59	43.28	43.02	42.72	42.42
42.13								
41.82	41.53	41.25	40.94	40.66	40.36	40.07	39.75	39.47
39.16								
38.88	38.55	38.29	37.96	37.68	37.33	37.09	36.76	36.49
36.15								
35.90	35.56	35.28	34.94	34.66	34.35	34.04	33.73	33.44
33.15								
32.83	32.52	32.21	31.92	31.61	31.28	30.97	30.67	30.37
30.04								
29.75	29.43	29.15	28.81	28.51	28.18	27.89	27.58	27.28
26.94								
26.65	26.33	26.03	25.71	25.41	25.09	24.79	24.47	24.17
23.85								
23.58	23.26	22.97	22.63	22.37	22.05	21.74	21.42	21.10
20.79								
20.49	20.18	19.90	19.60	19.32	19.02	18.74	18.45	18.16
17.86								

17.56	17.25	16.86	16.41	15.87	15.34	14.80	14.23	13.57
12.84								
11.92	10.91	9.84	8.56	7.07	4.96	2.49	0.66	0.18
0.00								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.43	187.35	187.24	187.17	187.05	186.90	186.74	186.62
186.40								
186.22	186.02	185.77	185.56	185.26	184.99	184.71	184.41	184.02
183.75								
183.38	183.01	182.62	182.23	181.81	181.46	181.05	180.67	180.22
179.89								
179.44	179.10	178.64	178.23	177.79	177.48	177.00	176.61	176.24
175.82								
175.45	175.05	174.54	174.22	173.77	173.33	172.87	172.44	172.00
171.58								
171.09	170.64	170.12	169.70	169.14	168.72	168.13	167.71	167.07
166.68								
166.06	165.61	164.91	164.46	163.78	163.34	162.64	162.11	161.49
160.91								
160.27	159.62	159.00	158.33	157.70	156.99	156.38	155.66	155.04
154.26								
153.60	152.87	152.10	151.41	150.61	149.92	149.09	148.44	147.62
146.88								
145.98	145.30	144.38	143.70	142.78	142.05	141.11	140.41	139.43
138.69								
137.69	136.95	135.98	135.15	134.17	133.34	132.41	131.52	130.61
129.66								
128.79	127.82	126.87	125.88	124.96	124.00	123.06	122.04	121.13
120.11								
119.16	118.14	117.14	116.22	115.16	114.19	113.12	112.17	111.11
110.18								
109.02	108.15	107.01	106.09	104.98	104.07	103.01	102.03	100.97
99.95								
98.97	97.93	97.01	95.92	95.07	93.97	93.12	92.02	91.19
90.15								
89.32	88.29	87.41	86.49	85.61	84.68	83.85	83.00	82.14
81.27								
80.44	79.64	78.84	78.07	77.24	76.51	75.74	75.02	74.26
73.58								
72.86	72.18	71.51	70.83	70.16	69.53	68.95	68.30	67.74
67.13								
66.58	66.01	65.49	64.95	64.43	63.93	63.46	62.94	62.47

62.02								
61.60	61.15	60.74	60.31	59.92	59.55	59.15	58.77	58.43
58.08								
57.74	57.38	57.05	56.74	56.41	56.13	55.79	55.51	55.20
54.91								
54.61	54.34	54.04	53.74	53.47	53.17	52.90	52.57	52.33
52.01								
51.74	51.43	51.16	50.86	50.60	50.28	50.00	49.69	49.41
49.12								
48.82	48.52	48.25	47.93	47.66	47.34	47.06	46.76	46.46
46.16								
45.86	45.55	45.25	44.96	44.66	44.36	44.08	43.75	43.47
43.14								
42.86	42.53	42.24	41.93	41.62	41.30	41.03	40.69	40.41
40.08								
39.80	39.46	39.17	38.84	38.56	38.22	37.96	37.61	37.31
36.99								
36.69	36.36	36.07	35.73	35.44	35.12	34.80	34.48	34.18
33.87								
33.54	33.23	32.91	32.60	32.27	31.96	31.64	31.32	31.00
30.68								
30.37	30.03	29.73	29.39	29.09	28.76	28.42	28.09	27.79
27.46								
27.13	26.80	26.48	26.17	25.85	25.53	25.20	24.89	24.54
24.25								
23.90	23.61	23.26	22.96	22.64	22.36	22.03	21.70	21.37
21.04								
20.71	20.40	20.12	19.80	19.50	19.19	18.91	18.60	18.31
17.98								
17.67	17.34	17.01	16.67	16.33	15.95	15.48	14.93	14.31
13.67								
12.85	11.98	10.99	9.98	8.76	7.51	5.89	4.09	1.78
0.29								
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.52	187.36	187.39	187.20	187.15	186.99	186.95	186.69
186.59								
186.33	186.23	185.91	185.75	185.44	185.26	184.86	184.67	184.23
184.01								
183.60	183.24	182.86	182.49	182.01	181.76	181.28	180.99	180.48
180.17								
179.73	179.40	178.90	178.62	178.17	177.82	177.38	177.05	176.59
176.29								

175.81	175.50	175.01	174.71	174.20	173.90	173.42	173.08	172.57
172.23								
171.70	171.34	170.82	170.44	169.88	169.52	168.98	168.54	168.00
167.55								
166.99	166.55	165.96	165.50	164.88	164.47	163.82	163.33	162.67
162.15								
161.50	160.95	160.27	159.79	159.11	158.53	157.78	157.24	156.52
155.88								
155.18	154.48	153.79	153.17	152.43	151.74	150.97	150.25	149.54
148.75								
148.03	147.24	146.47	145.71	144.94	144.14	143.32	142.58	141.65
140.94								
139.97	139.23	138.32	137.55	136.59	135.78	134.83	134.02	133.08
132.21								
131.29	130.37	129.48	128.53	127.62	126.64	125.71	124.76	123.82
122.85								
121.89	120.89	119.95	118.93	117.97	116.94	116.02	114.96	114.02
112.98								
111.98	111.03	109.93	109.00	107.92	106.98	105.90	104.95	103.88
102.91								
101.86	100.91	99.88	98.92	97.94	96.94	96.00	94.96	94.06
93.10								
92.17	91.21	90.33	89.38	88.48	87.58	86.76	85.83	84.99
84.12								
83.27	82.44	81.65	80.84	80.06	79.25	78.52	77.74	77.01
76.28								
75.56	74.85	74.16	73.49	72.81	72.19	71.53	70.93	70.27
69.70								
69.10	68.55	68.00	67.42	66.93	66.36	65.90	65.38	64.92
64.41								
63.98	63.51	63.09	62.63	62.22	61.81	61.43	61.04	60.65
60.26								
59.91	59.57	59.21	58.88	58.53	58.23	57.89	57.57	57.23
56.95								
56.63	56.35	56.03	55.73	55.44	55.13	54.82	54.52	54.22
53.91								
53.63	53.31	53.04	52.70	52.43	52.10	51.82	51.48	51.20
50.88								
50.59	50.26	49.98	49.66	49.37	49.03	48.74	48.42	48.11
47.80								
47.48	47.18	46.86	46.56	46.24	45.91	45.61	45.29	44.98
44.65								
44.35	44.01	43.72	43.39	43.09	42.76	42.45	42.09	41.80
41.45								

41.17	40.81	40.52	40.18	39.88	39.53	39.24	38.89	38.57
38.23								
37.91	37.58	37.26	36.94	36.62	36.27	35.96	35.62	35.30
34.96								
34.64	34.30	33.97	33.63	33.31	32.98	32.66	32.30	31.98
31.63								
31.31	30.96	30.64	30.29	29.98	29.61	29.28	28.93	28.62
28.26								
27.94	27.58	27.26	26.90	26.57	26.24	25.91	25.57	25.23
24.91								
24.57	24.23	23.90	23.57	23.24	22.91	22.59	22.25	21.92
21.58								
21.24	20.91	20.59	20.26	19.95	19.63	19.33	19.00	18.69
18.37								
18.04	17.71	17.37	17.02	16.66	16.31	15.94	15.57	15.17
14.68								
14.04	13.25	12.41	11.49	10.42	9.28	7.93	6.28	3.82
1.27								
0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.33	187.32	187.24	187.21	187.04	187.01	186.78	186.76
186.55								
186.42	186.14	186.04	185.80	185.63	185.29	185.10	184.72	184.54
184.12								
183.82	183.41	183.14	182.71	182.34	181.89	181.61	181.15	180.88
180.39								
180.10	179.65	179.36	178.92	178.61	178.11	177.83	177.34	177.10
176.58								
176.28	175.88	175.59	175.09	174.81	174.33	174.00	173.53	173.23
172.74								
172.41	171.94	171.62	171.13	170.75	170.26	169.91	169.40	168.99
168.46								
168.04	167.53	167.13	166.57	166.14	165.57	165.13	164.52	164.04
163.46								
162.98	162.32	161.83	161.20	160.67	160.03	159.49	158.83	158.23
157.56								
157.00	156.31	155.68	154.98	154.35	153.64	152.99	152.19	151.54
150.84								
150.17	149.39	148.67	147.87	147.17	146.32	145.59	144.77	144.04
143.21								
142.46	141.53	140.84	139.94	139.16	138.24	137.42	136.52	135.73
134.80								
133.97	133.01	132.20	131.22	130.36	129.38	128.51	127.54	126.69

125.69								
124.82	123.78	122.86	121.85	120.98	119.92	119.01	117.97	117.07
116.00								
115.04	114.02	113.10	112.05	111.06	110.02	109.11	108.05	107.07
106.00								
105.05	104.02	103.04	102.00	101.07	100.09	99.15	98.06	97.17
96.18								
95.31	94.28	93.45	92.51	91.57	90.61	89.78	88.90	88.01
87.09								
86.28	85.44	84.65	83.78	82.98	82.17	81.40	80.59	79.88
79.13								
78.40	77.67	76.93	76.24	75.57	74.89	74.24	73.57	72.97
72.33								
71.75	71.13	70.56	69.96	69.45	68.88	68.35	67.81	67.33
66.82								
66.37	65.85	65.43	64.97	64.55	64.08	63.69	63.28	62.87
62.46								
62.11	61.71	61.37	60.97	60.68	60.27	59.96	59.58	59.29
58.95								
58.65	58.30	58.01	57.68	57.38	57.03	56.78	56.43	56.13
55.78								
55.51	55.18	54.88	54.54	54.25	53.89	53.62	53.25	52.97
52.64								
52.34	51.98	51.69	51.34	51.05	50.69	50.41	50.06	49.77
49.40								
49.11	48.77	48.47	48.10	47.80	47.46	47.15	46.79	46.50
46.16								
45.85	45.49	45.18	44.85	44.54	44.17	43.86	43.51	43.20
42.84								
42.54	42.19	41.85	41.52	41.20	40.86	40.52	40.17	39.85
39.51								
39.17	38.82	38.49	38.16	37.81	37.44	37.13	36.79	36.47
36.12								
35.79	35.42	35.10	34.73	34.40	34.05	33.72	33.35	33.02
32.66								
32.33	31.95	31.64	31.27	30.95	30.55	30.23	29.87	29.54
29.18								
28.85	28.49	28.14	27.76	27.42	27.08	26.74	26.37	26.03
25.68								
25.34	24.99	24.64	24.29	23.94	23.60	23.25	22.90	22.59
22.24								
21.90	21.56	21.21	20.87	20.54	20.21	19.90	19.56	19.24
18.91								
18.58	18.23	17.89	17.53	17.16	16.79	16.42	16.05	15.64

15.21								
14.65	13.93	13.15	12.29	11.28	10.18	8.90	7.21	4.98
2.36								
0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.48	187.37	187.36	187.27	187.23	187.15	186.98	186.91
186.75								
186.65	186.43	186.28	186.05	185.85	185.58	185.38	185.09	184.79
184.52								
184.21	183.92	183.54	183.12	182.82	182.43	182.04	181.65	181.35
180.96								
180.56	180.20	179.81	179.43	179.12	178.70	178.36	177.96	177.64
177.24								
176.87	176.48	176.13	175.77	175.43	175.01	174.63	174.28	174.00
173.58								
173.19	172.78	172.43	172.05	171.66	171.22	170.84	170.47	170.01
169.57								
169.12	168.72	168.27	167.78	167.31	166.85	166.41	165.90	165.40
164.85								
164.35	163.82	163.27	162.72	162.16	161.62	161.04	160.48	159.90
159.32								
158.71	158.06	157.43	156.80	156.14	155.50	154.88	154.20	153.48
152.85								
152.15	151.44	150.71	149.96	149.24	148.49	147.82	147.02	146.28
145.44								
144.72	143.91	143.11	142.25	141.49	140.67	139.81	138.95	138.15
137.32								
136.46	135.56	134.72	133.77	132.94	131.96	131.13	130.18	129.31
128.30								
127.46	126.47	125.55	124.56	123.68	122.68	121.76	120.70	119.80
118.79								
117.82	116.76	115.88	114.89	113.87	112.79	111.87	110.87	109.92
108.85								
107.85	106.87	105.95	104.85	103.90	102.90	101.99	100.95	100.02
99.05								
98.12	97.15	96.25	95.28	94.38	93.39	92.57	91.63	90.77
89.85								
89.04	88.13	87.32	86.46	85.66	84.79	84.01	83.18	82.49
81.68								
80.93	80.15	79.47	78.72	78.02	77.32	76.66	75.98	75.33
74.67								
74.07	73.45	72.85	72.25	71.68	71.11	70.56	70.02	69.49
68.96								

68.47	67.96	67.50	67.02	66.58	66.11	65.68	65.25	64.83
64.41								
64.01	63.62	63.22	62.84	62.52	62.12	61.78	61.40	61.08
60.71								
60.40	60.05	59.73	59.40	59.06	58.75	58.43	58.10	57.77
57.44								
57.13	56.82	56.49	56.16	55.82	55.52	55.19	54.86	54.53
54.21								
53.86	53.54	53.21	52.90	52.55	52.22	51.90	51.56	51.21
50.88								
50.55	50.22	49.89	49.54	49.20	48.89	48.55	48.19	47.87
47.54								
47.19	46.84	46.50	46.18	45.83	45.49	45.14	44.83	44.48
44.12								
43.79	43.46	43.10	42.75	42.41	42.09	41.73	41.39	41.03
40.71								
40.36	39.98	39.63	39.31	38.96	38.59	38.25	37.91	37.57
37.19								
36.85	36.51	36.17	35.80	35.44	35.09	34.74	34.37	34.01
33.68								
33.34	32.95	32.59	32.24	31.91	31.54	31.16	30.83	30.48
30.10								
29.72	29.39	29.04	28.67	28.30	27.95	27.61	27.22	26.86
26.51								
26.17	25.80	25.41	25.08	24.72	24.37	24.01	23.67	23.32
22.97								
22.61	22.26	21.92	21.57	21.23	20.88	20.54	20.20	19.86
19.54								
19.20	18.85	18.50	18.14	17.77	17.40	17.01	16.63	16.23
15.82								
15.31	14.68	13.93	13.12	12.18	11.13	9.95	8.60	6.76
4.23								
1.37	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.54	187.45	187.49	187.40	187.39	187.28	187.23	187.09
187.01								
186.82	186.75	186.52	186.39	186.12	185.98	185.69	185.48	185.09
184.95								
184.58	184.31	183.92	183.63	183.21	182.92	182.47	182.20	181.74
181.36								
180.95	180.71	180.25	179.97	179.51	179.27	178.78	178.46	178.03
177.71								
177.26	176.96	176.50	176.20	175.81	175.50	175.12	174.81	174.38

174.05								
173.64	173.36	172.87	172.60	172.15	171.80	171.32	171.01	170.52
170.17								
169.71	169.33	168.85	168.45	167.93	167.52	167.03	166.60	166.09
165.61								
165.06	164.56	164.06	163.60	162.98	162.48	161.89	161.38	160.77
160.20								
159.56	158.98	158.38	157.76	157.13	156.53	155.89	155.24	154.55
153.92								
153.18	152.55	151.85	151.18	150.38	149.73	148.99	148.27	147.46
146.76								
145.92	145.23	144.39	143.69	142.82	142.03	141.19	140.43	139.58
138.70								
137.91	137.07	136.20	135.26	134.45	133.57	132.71	131.75	130.86
129.98								
129.08	128.15	127.19	126.27	125.37	124.42	123.46	122.48	121.52
120.56								
119.59	118.63	117.65	116.68	115.69	114.71	113.69	112.70	111.68
110.75								
109.72	108.72	107.75	106.79	105.81	104.83	103.84	102.83	101.89
100.90								
100.00	99.01	98.06	97.12	96.21	95.28	94.39	93.43	92.56
91.69								
90.80	89.90	89.03	88.25	87.36	86.53	85.70	84.98	84.13
83.35								
82.58	81.84	81.10	80.34	79.63	78.93	78.26	77.57	76.90
76.24								
75.61	74.97	74.37	73.72	73.16	72.58	72.03	71.44	70.93
70.38								
69.86	69.35	68.88	68.38	67.90	67.44	67.00	66.53	66.09
65.67								
65.28	64.88	64.46	64.08	63.70	63.34	62.97	62.60	62.26
61.90								
61.57	61.21	60.88	60.55	60.23	59.90	59.56	59.24	58.91
58.59								
58.25	57.94	57.62	57.29	56.98	56.61	56.29	55.95	55.64
55.30								
54.98	54.63	54.31	53.97	53.65	53.27	52.96	52.63	52.29
51.95								
51.59	51.27	50.92	50.60	50.23	49.91	49.57	49.22	48.88
48.55								
48.20	47.86	47.49	47.17	46.82	46.47	46.13	45.77	45.43
45.09								
44.73	44.40	44.04	43.70	43.34	43.00	42.66	42.30	41.96

41.61								
41.26	40.90	40.54	40.19	39.85	39.49	39.14	38.77	38.42
38.06								
37.71	37.35	37.00	36.64	36.29	35.93	35.57	35.21	34.85
34.49								
34.16	33.77	33.41	33.05	32.70	32.34	31.98	31.61	31.27
30.88								
30.53	30.15	29.80	29.43	29.09	28.70	28.35	27.97	27.62
27.25								
26.90	26.53	26.18	25.79	25.44	25.08	24.72	24.37	24.02
23.65								
23.29	22.94	22.62	22.26	21.90	21.54	21.19	20.83	20.48
20.14								
19.81	19.45	19.11	18.75	18.39	18.01	17.65	17.25	16.86
16.44								
15.92	15.24	14.49	13.68	12.81	11.78	10.70	9.51	8.14
6.19								
3.33	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.47	187.48	187.52	187.45	187.43	187.37	187.28	187.17
187.13								
186.99	186.87	186.66	186.57	186.33	186.14	185.86	185.73	185.42
185.20								
184.84	184.60	184.31	183.99	183.58	183.28	182.86	182.52	182.08
181.75								
181.32	181.03	180.59	180.29	179.85	179.55	179.12	178.82	178.34
178.01								
177.61	177.30	176.86	176.53	176.13	175.83	175.36	175.06	174.64
174.33								
173.90	173.59	173.12	172.80	172.35	172.05	171.59	171.23	170.70
170.42								
169.87	169.57	168.98	168.69	168.14	167.78	167.19	166.79	166.20
165.81								
165.31	164.80	164.23	163.79	163.16	162.69	162.08	161.55	160.99
160.43								
159.82	159.23	158.63	158.04	157.41	156.80	156.09	155.50	154.78
154.22								
153.45	152.89	152.09	151.48	150.67	150.04	149.21	148.57	147.77
147.13								
146.23	145.58	144.74	144.04	143.15	142.39	141.55	140.78	139.94
139.08								
138.29	137.45	136.63	135.71	134.88	133.99	133.09	132.21	131.31
130.45								

129.50	128.63	127.68	126.78	125.80	124.96	123.95	123.09	122.02
121.15								
120.08	119.23	118.13	117.30	116.19	115.32	114.23	113.37	112.27
111.35								
110.34	109.37	108.36	107.40	106.39	105.41	104.46	103.48	102.48
101.54								
100.58	99.65	98.65	97.75	96.78	95.89	94.94	94.04	93.15
92.29								
91.39	90.50	89.63	88.81	87.92	87.14	86.26	85.52	84.64
83.95								
83.12	82.44	81.58	80.93	80.13	79.47	78.72	78.06	77.39
76.74								
76.12	75.45	74.87	74.20	73.64	72.99	72.48	71.89	71.36
70.81								
70.28	69.79	69.25	68.80	68.28	67.84	67.35	66.93	66.47
66.06								
65.63	65.25	64.85	64.44	64.04	63.68	63.31	62.97	62.60
62.26								
61.90	61.57	61.23	60.89	60.57	60.24	59.93	59.59	59.28
58.93								
58.63	58.30	57.99	57.66	57.34	57.00	56.68	56.36	56.03
55.71								
55.37	55.05	54.70	54.39	54.04	53.72	53.37	53.05	52.70
52.38								
52.03	51.71	51.36	51.02	50.70	50.33	50.01	49.65	49.35
48.98								
48.65	48.29	47.98	47.61	47.28	46.92	46.59	46.22	45.89
45.55								
45.19	44.85	44.51	44.16	43.79	43.46	43.09	42.76	42.39
42.06								
41.70	41.37	41.00	40.66	40.30	39.94	39.60	39.24	38.89
38.53								
38.19	37.81	37.48	37.09	36.78	36.41	36.06	35.68	35.33
34.97								
34.63	34.29	33.92	33.56	33.19	32.85	32.48	32.12	31.76
31.40								
31.04	30.69	30.32	29.96	29.60	29.25	28.88	28.53	28.16
27.80								
27.43	27.07	26.71	26.35	25.98	25.64	25.27	24.91	24.56
24.19								
23.85	23.49	23.15	22.79	22.50	22.13	21.77	21.40	21.04
20.67								
20.33	19.98	19.64	19.27	18.91	18.54	18.17	17.80	17.41
17.01								

16.53	15.98	15.32	14.58	13.70	12.76	11.66	10.49	9.00
7.25								
4.78	1.70	0.10	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.51	187.43	187.49	187.42	187.43	187.28	187.26	187.11
187.15								
186.92	186.86	186.63	186.52	186.32	186.16	185.83	185.65	185.37
185.14								
184.78	184.52	184.09	183.78	183.45	183.09	182.72	182.35	181.96
181.61								
181.11	180.88	180.38	180.11	179.62	179.31	178.81	178.57	178.09
177.82								
177.34	177.01	176.58	176.26	175.80	175.52	175.07	174.76	174.34
174.00								
173.57	173.17	172.82	172.42	171.96	171.55	171.20	170.78	170.29
169.92								
169.42	168.99	168.49	168.08	167.49	167.13	166.56	166.15	165.61
165.11								
164.59	164.11	163.51	162.99	162.40	161.88	161.30	160.72	160.14
159.59								
158.95	158.36	157.67	157.04	156.43	155.81	155.15	154.48	153.84
153.12								
152.46	151.73	151.06	150.27	149.64	148.85	148.15	147.44	146.58
145.92								
145.01	144.38	143.49	142.84	141.88	141.18	140.31	139.49	138.69
137.84								
136.99	136.14	135.26	134.46	133.54	132.71	131.75	130.91	129.98
129.06								
128.18	127.23	126.38	125.38	124.47	123.47	122.62	121.60	120.66
119.71								
118.71	117.82	116.73	115.88	114.80	113.90	112.87	111.94	110.92
109.90								
108.91	107.91	107.00	105.92	104.96	103.97	103.02	102.09	101.10
100.13								
99.17	98.25	97.28	96.30	95.44	94.47	93.65	92.67	91.82
90.90								
90.09	89.18	88.28	87.49	86.61	85.84	84.99	84.22	83.45
82.66								
81.92	81.10	80.43	79.61	78.98	78.23	77.55	76.87	76.19
75.62								
74.94	74.35	73.68	73.12	72.51	71.90	71.37	70.81	70.32
69.75								
69.25	68.75	68.26	67.78	67.28	66.86	66.39	65.96	65.54

65.14								
64.73	64.32	63.94	63.56	63.17	62.81	62.45	62.11	61.78
61.43								
61.10	60.77	60.46	60.12	59.81	59.46	59.18	58.84	58.55
58.22								
57.92	57.60	57.26	56.97	56.61	56.32	55.98	55.68	55.34
55.02								
54.70	54.39	54.05	53.71	53.40	53.09	52.74	52.43	52.08
51.74								
51.43	51.07	50.74	50.41	50.09	49.76	49.43	49.09	48.76
48.42								
48.09	47.74	47.39	47.05	46.72	46.37	46.04	45.69	45.39
45.02								
44.69	44.34	43.99	43.63	43.30	42.96	42.62	42.25	41.93
41.58								
41.24	40.88	40.55	40.20	39.84	39.50	39.15	38.80	38.46
38.09								
37.78	37.39	37.09	36.70	36.39	36.01	35.69	35.31	34.98
34.61								
34.29	33.91	33.59	33.22	32.87	32.52	32.17	31.83	31.49
31.13								
30.76	30.44	30.06	29.73	29.36	29.03	28.67	28.34	27.96
27.63								
27.26	26.93	26.54	26.23	25.87	25.53	25.19	24.83	24.49
24.12								
23.81	23.43	23.11	22.73	22.42	22.04	21.74	21.38	21.06
20.70								
20.39	20.04	19.71	19.37	19.01	18.66	18.29	17.93	17.50
17.00								
16.44	15.79	15.01	14.16	13.26	12.23	11.15	9.04	6.90
4.76								
2.62	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.39	187.49	187.41	187.50	187.36	187.36	187.20	187.25
187.05								
187.02	186.75	186.75	186.50	186.37	186.08	185.92	185.64	185.49
185.06								
184.84	184.49	184.27	183.79	183.58	183.06	182.88	182.32	182.02
181.48								
181.28	180.77	180.49	179.98	179.68	179.20	178.97	178.47	178.13
177.68								
177.34	176.87	176.58	176.12	175.83	175.33	175.07	174.59	174.28
173.73								

173.49	173.00	172.70	172.18	171.85	171.32	171.04	170.46	170.12
169.59								
169.24	168.71	168.27	167.73	167.31	166.74	166.30	165.69	165.21
164.67								
164.17	163.60	163.08	162.47	161.99	161.41	160.85	160.13	159.58
158.93								
158.41	157.69	157.15	156.41	155.87	155.15	154.50	153.76	153.12
152.39								
151.72	150.92	150.29	149.54	148.89	148.03	147.34	146.54	145.79
144.97								
144.21	143.40	142.65	141.78	141.07	140.23	139.36	138.51	137.73
136.86								
135.95	135.11	134.31	133.36	132.51	131.59	130.80	129.80	128.93
127.95								
127.07	126.14	125.25	124.27	123.33	122.36	121.45	120.47	119.52
118.54								
117.62	116.53	115.64	114.56	113.68	112.62	111.69	110.65	109.71
108.67								
107.77	106.70	105.81	104.73	103.77	102.70	101.83	100.81	99.87
98.88								
98.00	96.98	96.06	95.08	94.22	93.26	92.36	91.43	90.50
89.72								
88.77	87.97	87.10	86.26	85.45	84.59	83.80	82.97	82.22
81.40								
80.71	79.90	79.20	78.48	77.80	77.02	76.39	75.65	75.07
74.38								
73.77	73.14	72.54	71.94	71.34	70.77	70.24	69.67	69.14
68.58								
68.08	67.62	67.11	66.65	66.15	65.73	65.27	64.88	64.44
64.03								
63.63	63.25	62.85	62.50	62.10	61.77	61.40	61.06	60.73
60.42								
60.07	59.77	59.47	59.13	58.82	58.48	58.19	57.86	57.56
57.23								
56.97	56.66	56.36	56.03	55.73	55.39	55.07	54.75	54.44
54.12								
53.82	53.49	53.17	52.86	52.55	52.23	51.88	51.57	51.24
50.95								
50.58	50.28	49.94	49.65	49.29	49.00	48.64	48.35	48.01
47.67								
47.36	47.00	46.70	46.31	46.03	45.67	45.36	45.01	44.71
44.37								
44.05	43.70	43.37	43.01	42.70	42.32	42.02	41.69	41.33
41.00								

40.66	40.34	40.00	39.66	39.29	38.98	38.62	38.31	37.94
37.63								
37.27	36.96	36.59	36.27	35.91	35.58	35.23	34.90	34.55
34.21								
33.88	33.52	33.19	32.83	32.50	32.15	31.82	31.46	31.14
30.78								
30.46	30.09	29.78	29.41	29.08	28.71	28.38	28.03	27.70
27.35								
27.01	26.67	26.32	26.01	25.63	25.31	24.95	24.63	24.27
23.94								
23.58	23.27	22.89	22.59	22.22	21.93	21.55	21.25	20.91
20.59								
20.24	19.93	19.60	19.26	18.93	18.56	18.22	17.85	17.47
17.01								
16.52	15.82	15.13	14.25	13.41	12.33	11.15	8.88	6.58
4.27								
1.96	0.31	0.02	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.41	187.43	187.49	187.45	187.47	187.35	187.31	187.21
187.13								
186.95	186.89	186.68	186.53	186.34	186.17	185.90	185.74	185.44
185.16								
184.86	184.61	184.26	183.90	183.53	183.16	182.77	182.43	182.00
181.65								
181.25	180.91	180.41	180.08	179.64	179.33	178.86	178.51	178.11
177.71								
177.31	176.96	176.56	176.16	175.78	175.39	174.97	174.55	174.17
173.74								
173.38	172.87	172.51	172.04	171.66	171.21	170.77	170.27	169.89
169.35								
168.91	168.38	167.90	167.43	166.91	166.44	165.92	165.38	164.85
164.29								
163.74	163.14	162.58	162.03	161.43	160.84	160.24	159.64	159.04
158.36								
157.78	157.02	156.49	155.68	155.14	154.32	153.79	152.98	152.36
151.52								
150.88	150.06	149.47	148.59	147.93	147.12	146.38	145.59	144.82
144.01								
143.17	142.36	141.57	140.77	139.89	139.08	138.23	137.39	136.51
135.62								
134.77	133.90	133.05	132.07	131.24	130.29	129.50	128.47	127.60
126.56								
125.74	124.70	123.88	122.80	121.91	120.88	120.00	118.98	118.01

117.04								
116.07	115.06	114.07	113.05	112.09	111.11	110.07	109.10	108.12
107.11								
106.14	105.04	104.12	103.06	102.14	101.10	100.15	99.19	98.22
97.23								
96.24	95.34	94.37	93.42	92.50	91.61	90.70	89.75	88.90
87.97								
87.13	86.22	85.42	84.56	83.73	82.89	82.10	81.31	80.52
79.70								
78.99	78.21	77.51	76.76	76.09	75.37	74.72	74.02	73.36
72.75								
72.06	71.51	70.83	70.28	69.70	69.14	68.59	68.06	67.55
67.00								
66.51	66.02	65.56	65.09	64.62	64.18	63.76	63.33	62.92
62.51								
62.14	61.75	61.37	61.01	60.66	60.32	59.99	59.63	59.32
58.99								
58.67	58.33	58.05	57.73	57.45	57.13	56.85	56.52	56.24
55.91								
55.65	55.31	55.05	54.71	54.43	54.11	53.80	53.51	53.17
52.92								
52.54	52.28	51.94	51.66	51.33	51.03	50.69	50.41	50.08
49.76								
49.43	49.15	48.81	48.50	48.20	47.87	47.57	47.20	46.94
46.56								
46.28	45.93	45.61	45.32	44.97	44.67	44.32	44.05	43.68
43.40								
43.01	42.75	42.37	42.10	41.71	41.44	41.08	40.77	40.44
40.11								
39.80	39.45	39.12	38.80	38.47	38.16	37.80	37.48	37.16
36.82								
36.50	36.16	35.85	35.51	35.16	34.88	34.50	34.20	33.83
33.53								
33.18	32.87	32.50	32.21	31.83	31.56	31.17	30.90	30.52
30.23								
29.84	29.55	29.20	28.88	28.53	28.21	27.88	27.52	27.21
26.85								
26.55	26.18	25.88	25.52	25.21	24.87	24.55	24.21	23.88
23.55								
23.20	22.89	22.55	22.24	21.89	21.58	21.25	20.95	20.59
20.29								
19.96	19.65	19.32	19.00	18.67	18.33	17.97	17.63	17.23
16.80								
16.22	15.54	14.78	13.98	13.00	11.94	10.73	8.31	5.87

3.44								
1.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.55	187.49	187.55	187.43	187.48	187.32	187.36	187.16
187.20								
186.91	186.90	186.67	186.59	186.22	186.19	185.86	185.68	185.36
185.14								
184.79	184.59	184.16	183.88	183.44	183.14	182.70	182.38	181.90
181.63								
181.16	180.85	180.34	180.06	179.56	179.29	178.83	178.47	177.97
177.71								
177.19	176.87	176.36	176.10	175.57	175.26	174.76	174.45	173.99
173.65								
173.15	172.82	172.30	171.96	171.41	171.04	170.45	170.11	169.55
169.17								
168.61	168.18	167.60	167.21	166.55	166.12	165.46	165.01	164.38
163.92								
163.29	162.77	162.12	161.59	160.95	160.34	159.66	159.12	158.37
157.81								
157.07	156.49	155.80	155.10	154.40	153.69	152.96	152.33	151.54
150.91								
150.06	149.37	148.58	147.81	147.01	146.29	145.44	144.70	143.84
143.05								
142.20	141.40	140.54	139.76	138.85	138.05	137.12	136.25	135.37
134.50								
133.60	132.73	131.76	130.85	129.92	129.01	128.07	127.15	126.18
125.28								
124.30	123.32	122.38	121.39	120.40	119.41	118.47	117.45	116.45
115.48								
114.48	113.47	112.45	111.48	110.40	109.41	108.38	107.40	106.36
105.40								
104.33	103.36	102.34	101.36	100.34	99.34	98.32	97.39	96.39
95.42								
94.44	93.50	92.53	91.63	90.67	89.75	88.83	87.94	87.08
86.13								
85.31	84.43	83.60	82.73	81.89	81.10	80.27	79.51	78.71
77.93								
77.21	76.43	75.75	75.00	74.35	73.61	72.98	72.28	71.64
71.01								
70.38	69.78	69.15	68.61	68.02	67.51	66.91	66.44	65.87
65.41								
64.88	64.42	63.95	63.50	63.05	62.61	62.20	61.77	61.39
61.02								

60.61	60.26	59.88	59.53	59.18	58.83	58.52	58.19	57.87
57.56								
57.26	56.95	56.63	56.36	56.02	55.76	55.45	55.18	54.86
54.58								
54.27	53.98	53.68	53.39	53.08	52.78	52.47	52.18	51.88
51.58								
51.28	50.97	50.68	50.39	50.08	49.76	49.47	49.17	48.85
48.54								
48.23	47.91	47.62	47.30	47.00	46.69	46.40	46.09	45.75
45.45								
45.12	44.83	44.49	44.17	43.86	43.58	43.25	42.94	42.61
42.33								
41.99	41.69	41.34	41.04	40.71	40.38	40.07	39.74	39.44
39.10								
38.82	38.47	38.18	37.84	37.54	37.20	36.88	36.55	36.24
35.91								
35.58	35.28	34.94	34.65	34.31	34.00	33.67	33.36	33.01
32.72								
32.35	32.05	31.71	31.42	31.07	30.76	30.43	30.11	29.80
29.47								
29.14	28.82	28.50	28.16	27.85	27.50	27.22	26.85	26.57
26.21								
25.91	25.56	25.26	24.94	24.60	24.29	23.96	23.66	23.31
23.01								
22.66	22.38	22.03	21.73	21.38	21.09	20.76	20.46	20.15
19.83								
19.55	19.22	18.92	18.59	18.30	17.94	17.64	17.24	16.81
16.20								
15.59	14.77	13.99	13.03	12.05	10.87	8.87	6.84	4.81
2.78								
0.56	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								
187.42	187.40	187.41	187.30	187.36	187.19	187.27	187.07	187.01
186.82								
186.81	186.54	186.42	186.19	186.07	185.79	185.63	185.26	185.10
184.69								
184.51	184.13	183.83	183.43	183.14	182.71	182.37	181.90	181.58
181.15								
180.82	180.34	180.04	179.57	179.28	178.78	178.46	177.96	177.64
177.19								
176.83	176.34	176.02	175.58	175.25	174.73	174.39	173.96	173.54
173.07								
172.67	172.21	171.85	171.29	170.91	170.40	169.99	169.47	169.02

168.45								
168.00	167.43	166.98	166.42	165.97	165.33	164.85	164.26	163.70
163.03								
162.53	161.91	161.38	160.64	160.07	159.40	158.86	158.11	157.50
156.78								
156.13	155.45	154.77	154.05	153.35	152.61	151.90	151.12	150.44
149.59								
148.91	148.09	147.39	146.49	145.75	144.93	144.15	143.26	142.47
141.62								
140.78	139.88	139.09	138.17	137.38	136.38	135.57	134.61	133.78
132.80								
131.90	130.97	130.11	129.09	128.19	127.24	126.31	125.27	124.34
123.36								
122.44	121.35	120.50	119.49	118.48	117.43	116.44	115.42	114.46
113.37								
112.42	111.39	110.41	109.33	108.33	107.26	106.29	105.19	104.20
103.16								
102.21	101.12	100.14	99.13	98.16	97.09	96.13	95.12	94.20
93.17								
92.24	91.28	90.35	89.37	88.48	87.57	86.66	85.73	84.85
83.95								
83.10	82.26	81.43	80.60	79.78	78.95	78.18	77.35	76.61
75.84								
75.14	74.38	73.67	72.97	72.29	71.60	70.96	70.27	69.66
68.99								
68.44	67.81	67.24	66.66	66.12	65.55	65.04	64.50	64.03
63.53								
63.06	62.57	62.14	61.70	61.26	60.81	60.42	60.02	59.65
59.26								
58.90	58.53	58.19	57.85	57.51	57.16	56.86	56.55	56.24
55.92								
55.63	55.32	55.03	54.73	54.45	54.14	53.86	53.56	53.28
52.98								
52.70	52.41	52.12	51.82	51.53	51.24	50.95	50.65	50.37
50.08								
49.79	49.49	49.19	48.90	48.59	48.30	48.00	47.71	47.40
47.12								
46.82	46.52	46.22	45.91	45.62	45.31	45.00	44.69	44.40
44.09								
43.80	43.49	43.19	42.87	42.58	42.27	41.95	41.65	41.35
41.06								
40.75	40.43	40.12	39.82	39.51	39.21	38.88	38.58	38.27
37.97								
37.65	37.36	37.03	36.71	36.41	36.10	35.78	35.47	35.17

34.86								
34.53	34.23	33.92	33.61	33.30	32.99	32.68	32.36	32.05
31.73								
31.42	31.11	30.80	30.48	30.17	29.85	29.55	29.22	28.91
28.60								
28.28	27.97	27.67	27.35	27.02	26.71	26.40	26.08	25.77
25.45								
25.16	24.83	24.51	24.21	23.89	23.57	23.26	22.96	22.63
22.31								
22.02	21.72	21.41	21.10	20.79	20.49	20.19	19.89	19.57
19.29								
18.99	18.68	18.37	18.07	17.76	17.44	17.10	16.75	16.29
15.72								
15.05	14.31	13.48	12.52	11.45	9.58	7.69	5.80	3.91
1.26								
0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
0.00								