

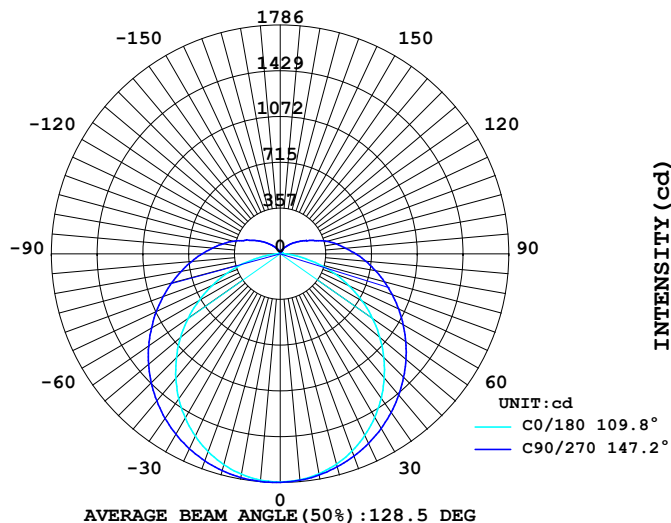
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

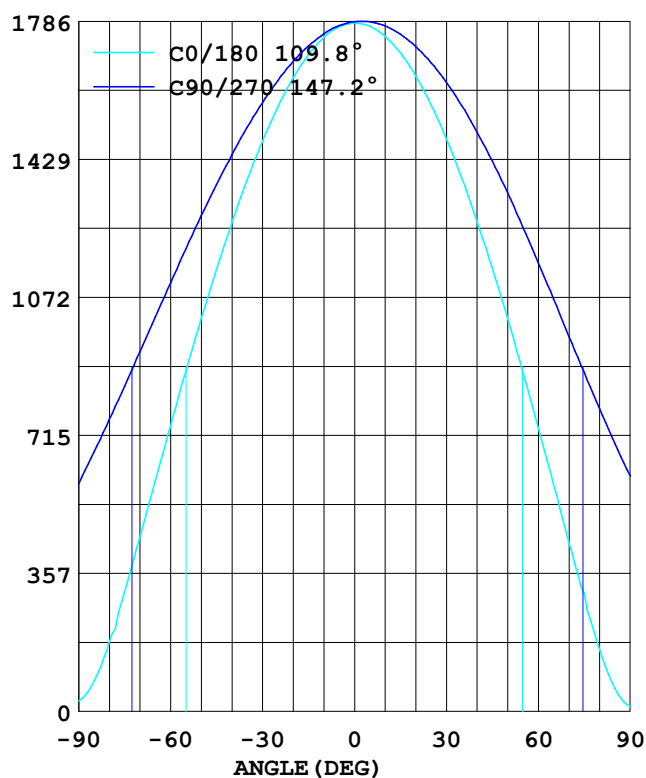
MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N05040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :

DATA OF LAMP		Imax (cd)	1786	S/MH (C0/180)	1.24
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.32
NOMINAL POWER(W)	50	TOTAL FLUX(lm)	7023.3	Voltage(V)	231.1
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	140.4	Current(A)	0.220
NOMINAL FLUX(lm)	7023.3	$\eta$ up (%)	11.8	Power(W)	50.02
LAMPS QUANTITY	1	$\eta$ down (%)	88.2	Power Factor (PF)	0.985
TEST VOLTAGE (V)	231.1	Effective Flux(lm)	6755.7	EEL	0.101

### LUMINOUS INTENSITY DISTRIBUTION



### LUMINOUS INTENSITY DISTRIBUTION



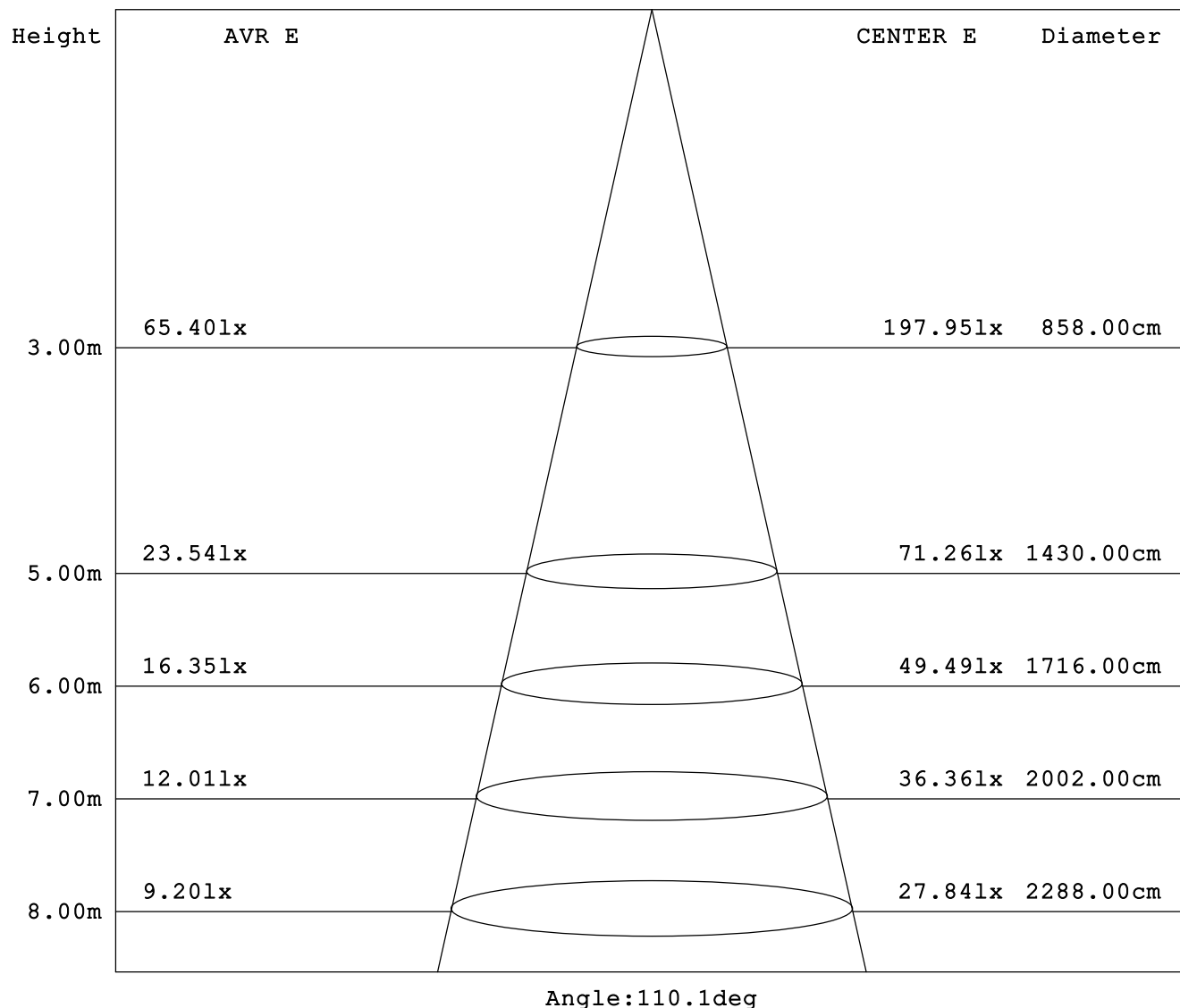
Test System:HOPOO  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N05040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :



Test System: HOPOO  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N05040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1772	1771	1775	1769	1773	1780	1785	1780	0- 5	42.54	42.54
10.0	1744	1746	1754	1743	1747	1765	1774	1764	5- 10	126.3	168.8
15.0	1700	1708	1722	1703	1705	1735	1753	1734	10- 15	206.1	374.9
20.0	1640	1657	1682	1650	1645	1692	1721	1690	15- 20	279.5	654.5
25.0	1565	1596	1633	1585	1570	1637	1680	1633	20- 25	344.4	998.9
30.0	1476	1523	1576	1509	1483	1569	1629	1564	25- 30	399.0	1398
35.0	1377	1441	1512	1423	1381	1492	1568	1485	30- 35	441.8	1840
40.0	1265	1353	1441	1331	1268	1404	1499	1395	35- 40	471.9	2312
45.0	1144	1257	1364	1230	1148	1309	1425	1297	40- 45	488.8	2801
50.0	1017	1156	1283	1124	1017	1210	1342	1196	45- 50	492.8	3294
55.0	881.1	1055	1198	1019	877.5	1104	1253	1088	50- 55	484.2	3778
60.0	739.5	951.0	1109	910.2	735.4	997.6	1162	979.3	55- 60	463.8	4242
65.0	597.6	848.2	1021	803.2	587.1	893.5	1067	873.4	60- 65	433.6	4675
70.0	451.3	750.5	930.7	702.4	437.4	789.0	970.5	767.1	65- 70	395.1	5070
75.0	309.5	655.0	841.2	604.3	306.3	689.0	877.7	665.5	70- 75	350.6	5421
80.0	179.6	564.4	755.7	513.0	160.1	596.6	783.1	572.5	75- 80	302.5	5724
85.0	77.09	482.0	671.1	430.6	59.31	509.1	693.0	485.0	80- 85	255.2	5979
90.0	27.06	405.8	589.9	355.9	13.66	430.1	609.8	406.8	85- 90	212.9	6192
95.0	18.04	339.6	516.0	293.3	9.420	361.3	529.8	339.5	90- 95	179.1	6371
100.0	16.32	287.2	446.6	234.7	9.553	298.9	455.1	278.3	95-100	150.3	6521
105.0	15.52	211.1	380.0	171.1	9.951	222.5	385.3	204.4	100-105	120.8	6642
110.0	15.25	155.9	302.3	128.7	10.61	171.0	306.7	154.9	105-110	92.90	6735
115.0	15.25	127.2	253.5	100.9	11.01	137.8	253.4	124.9	110-115	71.78	6807
120.0	15.25	101.3	205.9	80.00	11.67	110.9	206.7	100.8	115-120	56.12	6863
125.0	15.39	80.80	167.3	63.15	12.20	89.96	165.5	81.99	120-125	43.54	6907
130.0	15.65	64.75	133.3	51.48	12.73	72.84	131.4	67.53	125-130	33.23	6940
135.0	15.92	51.87	104.4	41.53	13.40	58.91	99.51	55.06	130-135	25.01	6965
140.0	16.05	40.46	80.67	33.17	13.79	47.36	77.35	42.72	135-140	18.32	6983
145.0	16.32	30.78	61.16	26.93	14.32	37.68	57.98	33.56	140-145	13.09	6996
150.0	16.45	24.54	45.90	22.29	14.86	30.38	42.72	27.99	145-150	9.239	7005
155.0	16.58	20.43	34.76	19.10	15.25	25.21	31.31	24.01	150-155	6.501	7012
160.0	16.71	17.77	26.93	17.11	15.65	21.49	23.75	21.09	155-160	4.540	7016
165.0	16.85	16.32	22.15	16.05	16.05	19.23	18.84	19.10	160-165	3.137	7020
170.0	16.85	15.65	19.63	15.78	16.32	18.17	16.45	18.17	165-170	2.083	7022
175.0	16.85	15.52	18.57	15.78	16.45	17.77	15.78	17.64	170-175	1.212	7023
180.0	16.85	15.65	18.17	16.05	16.85	17.51	16.05	17.51	175-180	0.402	7023
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

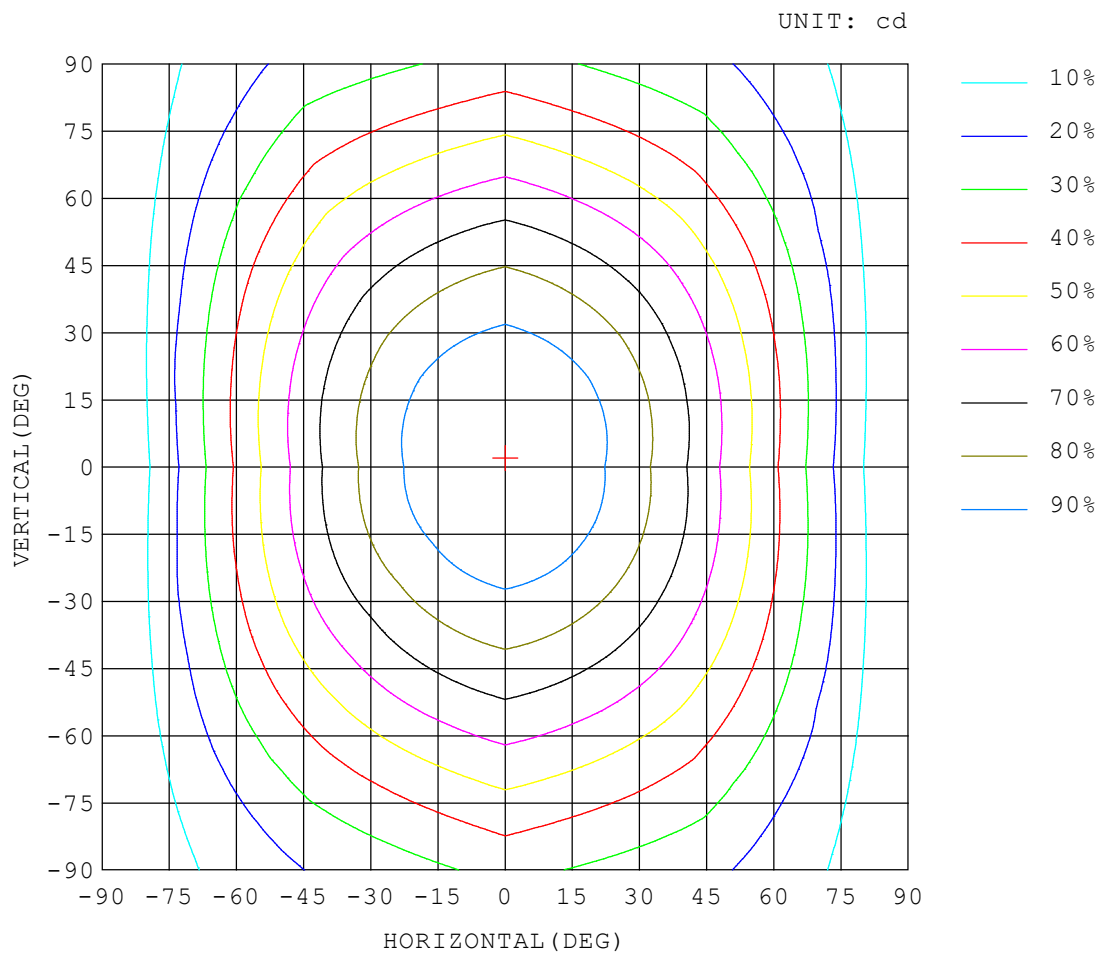
Test System:HOPOO  
Temperature:25.3DEG  
Operators:  
Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N05040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :



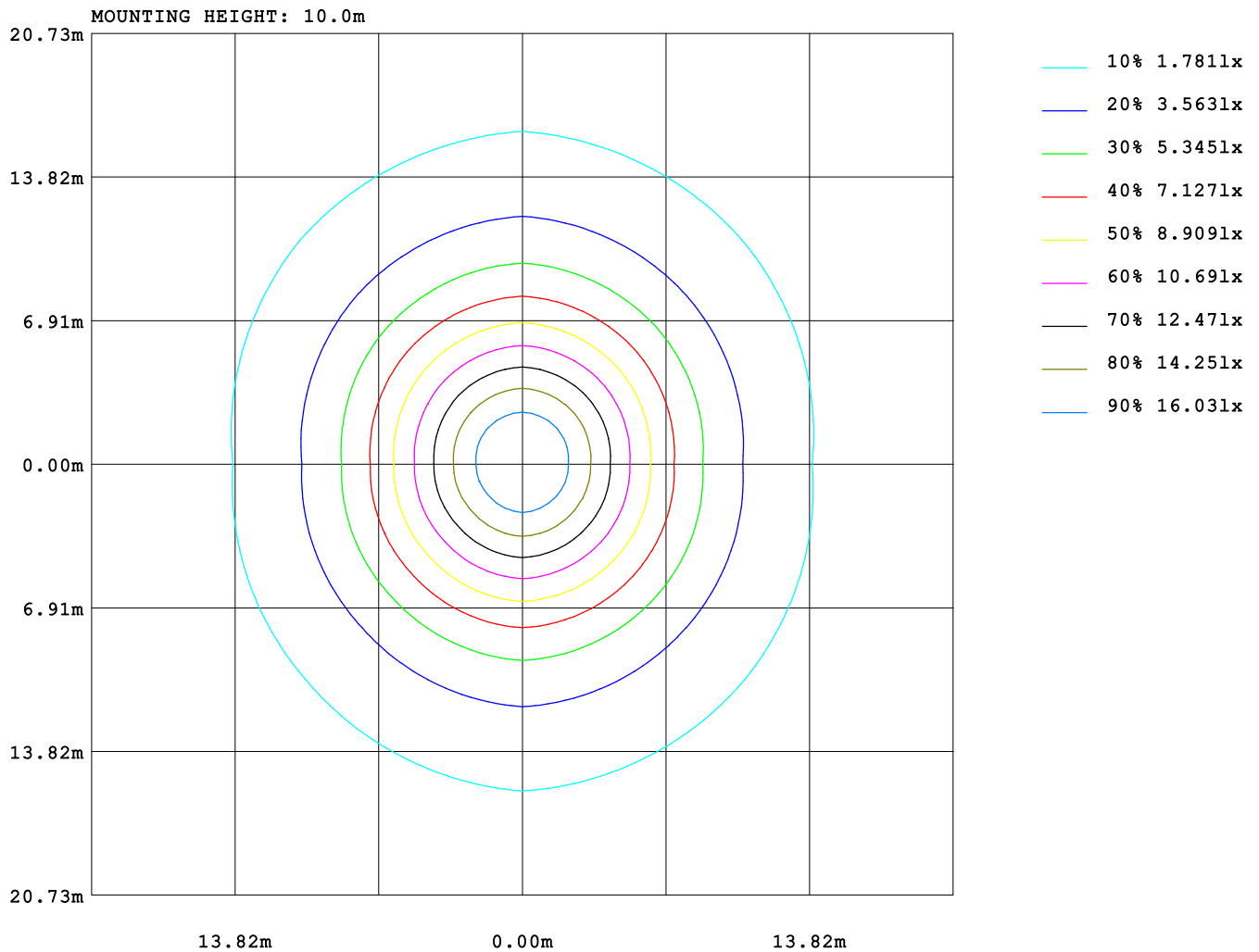
Test System:HOPOO  
Temperature:25.3DEG  
Operators:  
Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N05040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :



Test System:HOPOO  
Temperature:25.3DEG  
Operators:  
Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N05040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315
0.0	1782	1782	1785	1782	1782	1782	1785	1782
5.0	1772	1771	1775	1769	1773	1780	1785	1780
10.0	1744	1746	1754	1743	1747	1765	1774	1764
15.0	1700	1708	1722	1703	1705	1735	1753	1734
20.0	1640	1657	1682	1650	1645	1692	1721	1690
25.0	1565	1596	1633	1585	1570	1637	1680	1633
30.0	1476	1523	1576	1509	1483	1569	1629	1564
35.0	1377	1441	1512	1423	1381	1492	1568	1485
40.0	1265	1353	1441	1331	1268	1404	1499	1395
45.0	1144	1257	1364	1230	1148	1309	1425	1297
50.0	1017	1156	1283	1124	1017	1210	1342	1196
55.0	881	1055	1198	1019	878	1104	1253	1088
60.0	740	951	1109	910	735	998	1162	979
65.0	598	848	1021	803	587	894	1067	873
70.0	451	751	931	702	437	789	971	767
75.0	310	655	841	604	306	689	878	666
80.0	180	564	756	513	160	597	783	573
85.0	77.0	482	671	431	59.3	509	693	485
90.0	27.0	406	590	356	13.6	430	610	407
95.0	18.0	340	516	293	9.42	361	530	340
100.0	16.3	287	447	235	9.55	299	455	278
105.0	15.5	211	380	171	9.95	223	385	204
110.0	15.2	156	302	129	10.6	171	307	155
115.0	15.2	127	254	101	11.0	138	253	125
120.0	15.2	101	206	80.0	11.6	111	207	101
125.0	15.3	80.8	167	63.1	12.2	89.9	166	81.9
130.0	15.6	64.7	133	51.4	12.7	72.8	131	67.5
135.0	15.9	51.8	104	41.5	13.4	58.9	99.5	55.0
140.0	16.0	40.4	80.6	33.1	13.7	47.3	77.3	42.7
145.0	16.3	30.7	61.1	26.9	14.3	37.6	57.9	33.5
150.0	16.4	24.5	45.9	22.2	14.8	30.3	42.7	27.9
155.0	16.5	20.4	34.7	19.1	15.2	25.2	31.3	24.0
160.0	16.7	17.7	26.9	17.1	15.6	21.4	23.7	21.0
165.0	16.8	16.3	22.1	16.0	16.0	19.2	18.8	19.1
170.0	16.8	15.6	19.6	15.7	16.3	18.1	16.4	18.1
175.0	16.8	15.5	18.5	15.7	16.4	17.7	15.7	17.6
180.0	16.8	15.6	18.1	16.0	16.8	17.5	16.0	17.5

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