

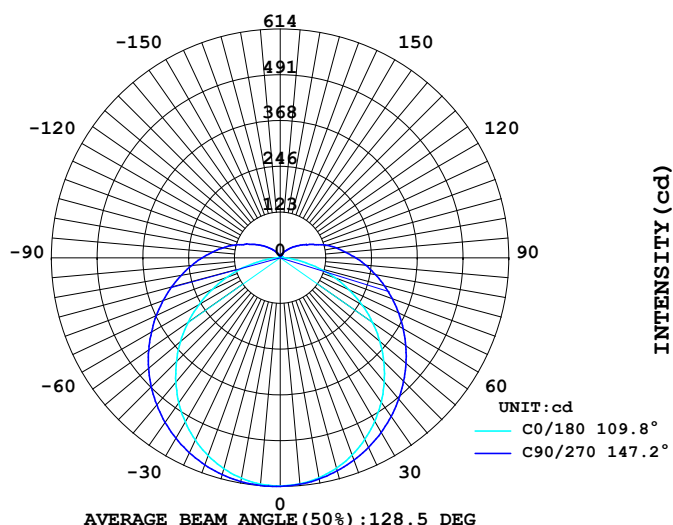
# LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

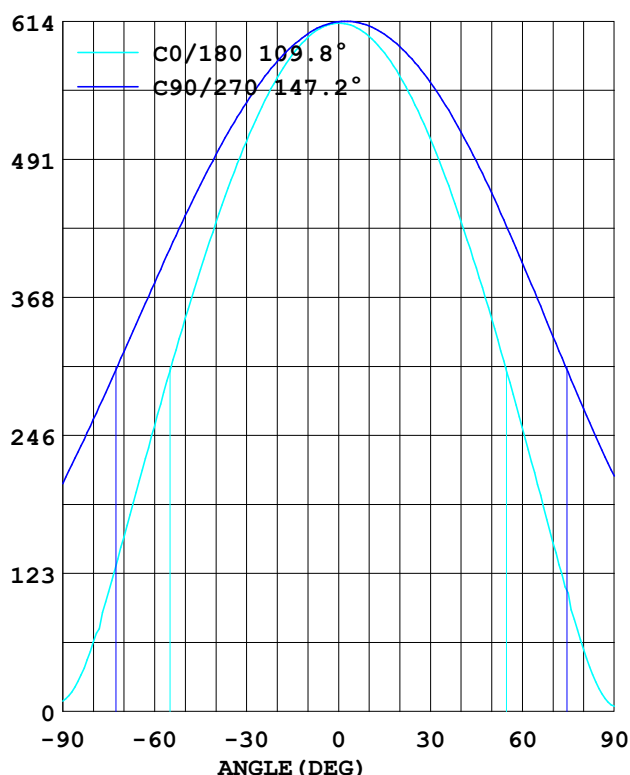
MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N02040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :

DATA OF LAMP		Imax (cd)	613.8	S/MH (C0/180)	1.24
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.32
NOMINAL POWER (W)	20	TOTAL FLUX (lm)	2413.2	Voltage (V)	231.0
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	120.4	Current (A)	0.088
NOMINAL FLUX (lm)	2413.2	$\eta$ up (%)	11.8	Power (W)	20.04
LAMPS QUANTITY	1	$\eta$ down (%)	88.2	Power Factor (PF)	0.985
TEST VOLTAGE (V)	231.0	Effective Flux (lm)	2321.3	EEL	0.118

## LUMINOUS INTENSITY DISTRIBUTION



## LUMINOUS INTENSITY DISTRIBUTION



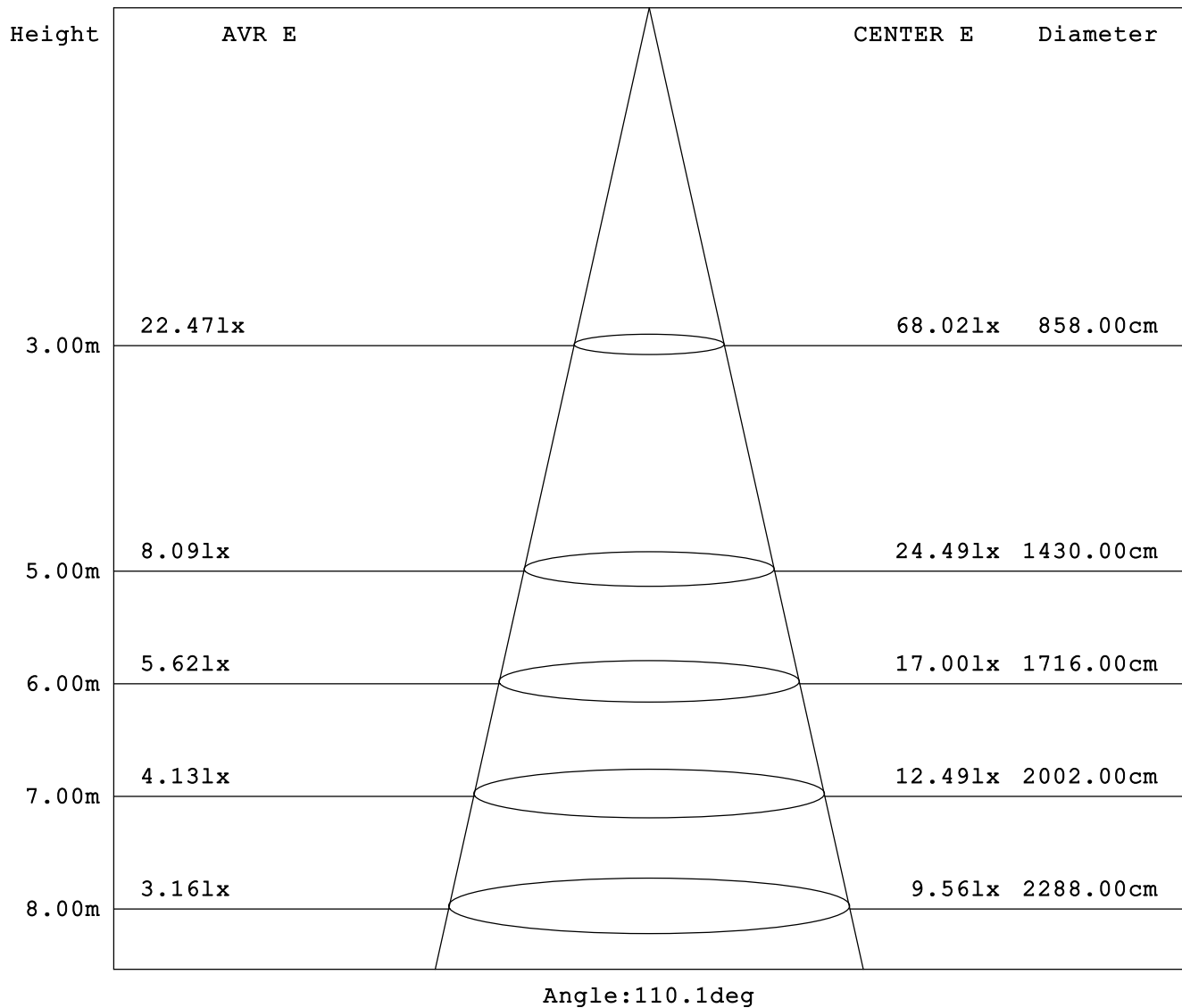
Test System:  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2022.05.31

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

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: ILUMEN GMBH			
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SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No.:



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 Temperature:25.3DEG  
 Operators:  
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## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N02040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	608.8	608.4	610.0	607.8	609.3	611.6	613.3	611.7	0- 5	14.61	14.61
10.0	599.3	600.0	602.6	598.8	600.3	606.3	609.6	606.2	5- 10	43.39	58.01
15.0	584.0	586.9	591.7	585.0	585.7	596.0	602.3	595.7	10- 15	70.81	128.8
20.0	563.5	569.4	578.0	566.7	565.3	581.2	591.4	580.5	15- 20	96.05	224.8
25.0	537.6	548.5	561.1	544.7	539.5	562.4	577.0	561.2	20- 25	118.3	343.2
30.0	507.0	523.4	541.3	518.5	509.5	539.1	559.6	537.2	25- 30	137.1	480.3
35.0	473.0	495.1	519.5	488.9	474.5	512.7	538.9	510.2	30- 35	151.8	632.1
40.0	434.5	464.8	495.0	457.1	435.6	482.4	515.1	479.2	35- 40	162.1	794.3
45.0	392.9	431.8	468.5	422.5	394.4	449.6	489.5	445.6	40- 45	167.9	962.3
50.0	349.5	397.2	440.9	386.3	349.3	415.6	461.0	410.8	45- 50	169.3	1132
55.0	302.7	362.5	411.5	350.0	301.5	379.4	430.6	373.8	50- 55	166.3	1298
60.0	254.1	326.7	381.0	312.7	252.7	342.7	399.3	336.5	55- 60	159.3	1457
65.0	205.3	291.4	350.8	276.0	201.7	307.0	366.7	300.1	60- 65	148.9	1606
70.0	155.0	257.9	319.8	241.3	150.3	271.1	333.4	263.6	65- 70	135.7	1742
75.0	106.3	225.0	289.0	207.6	105.2	236.7	301.5	228.6	70- 75	120.4	1863
80.0	61.72	193.9	259.6	176.2	55.02	205.0	269.0	196.7	75- 80	103.9	1967
85.0	26.48	165.6	230.5	147.9	20.37	174.9	238.1	166.6	80- 85	87.69	2054
90.0	9.300	139.4	202.6	122.3	4.695	147.8	209.5	139.7	85- 90	73.15	2127
95.0	6.200	116.7	177.3	100.8	3.236	124.1	182.0	116.6	90- 95	61.55	2189
100.0	5.607	98.70	153.4	80.64	3.282	102.7	156.3	95.64	95-100	51.66	2241
105.0	5.334	72.53	130.5	58.81	3.419	76.45	132.3	70.25	100-105	41.53	2282
110.0	5.242	53.56	103.9	44.22	3.647	58.76	105.4	53.24	105-110	31.92	2314
115.0	5.242	43.72	87.12	34.69	3.784	47.36	87.07	42.94	110-115	24.66	2339
120.0	5.242	34.83	70.75	27.49	4.011	38.11	71.03	34.64	115-120	19.28	2358
125.0	5.288	27.76	57.48	21.70	4.194	30.91	56.89	28.17	120-125	14.96	2373
130.0	5.379	22.24	45.81	17.68	4.376	25.02	45.18	23.20	125-130	11.41	2384
135.0	5.470	17.82	35.87	14.26	4.604	20.24	34.19	18.92	130-135	8.596	2393
140.0	5.516	13.90	27.71	11.39	4.741	16.27	26.57	14.68	135-140	6.297	2399
145.0	5.607	10.57	21.01	9.254	4.923	12.94	19.92	11.53	140-145	4.500	2404
150.0	5.653	8.434	15.77	7.659	5.106	10.44	14.68	9.619	145-150	3.174	2407
155.0	5.698	7.020	11.94	6.565	5.242	8.662	10.75	8.251	150-155	2.233	2409
160.0	5.744	6.109	9.254	5.881	5.379	7.385	8.160	7.248	155-160	1.560	2411
165.0	5.790	5.607	7.613	5.516	5.516	6.610	6.473	6.565	160-165	1.077	2412
170.0	5.790	5.379	6.747	5.425	5.607	6.245	5.653	6.245	165-170	0.716	2413
175.0	5.790	5.334	6.382	5.425	5.653	6.109	5.425	6.063	170-175	0.417	2413
180.0	5.790	5.379	6.245	5.516	5.790	6.017	5.516	6.017	175-180	0.138	2413
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

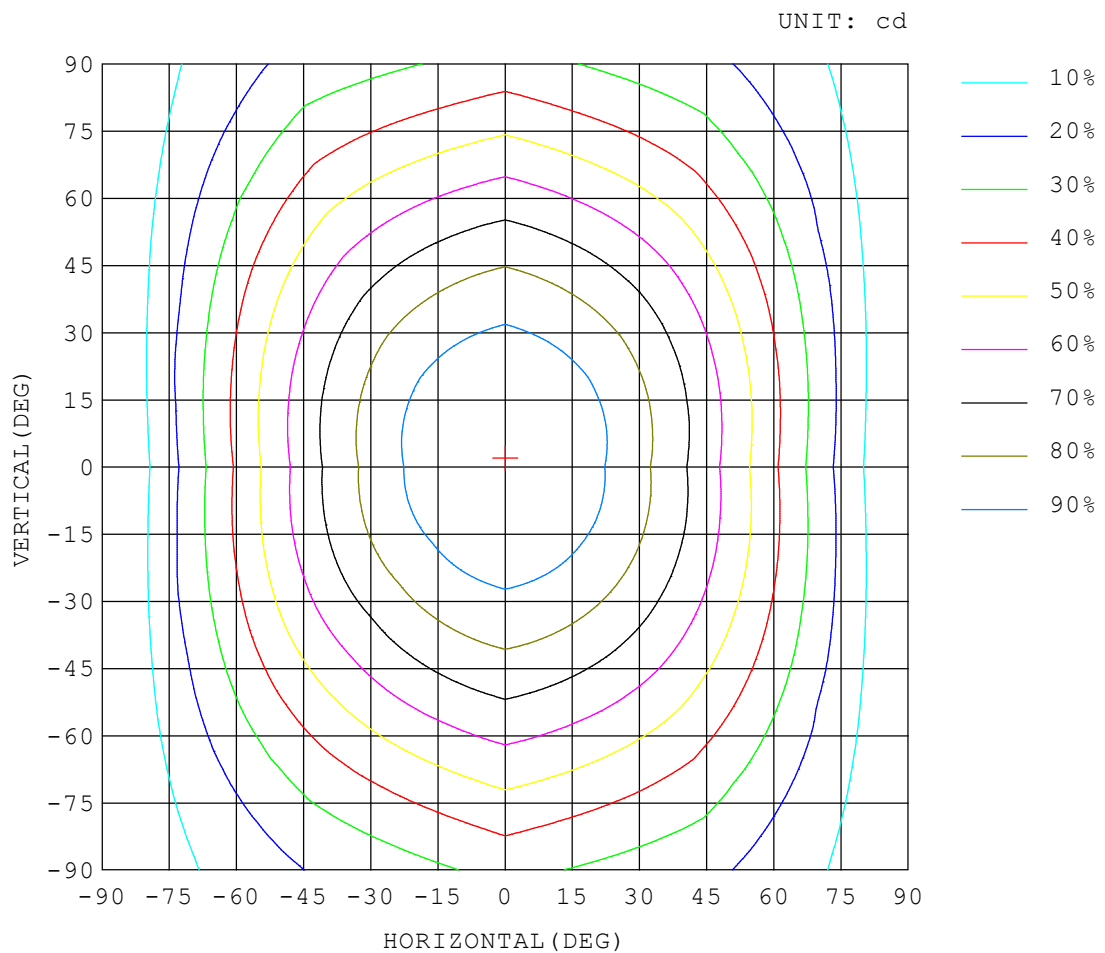
Test System:  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022.05.31

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

## ISOCANDELA DIAGRAM

Report number:

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Address:			
NAME: Ava		TYPE: IL-TL27-N02040-120	WEIGHT:
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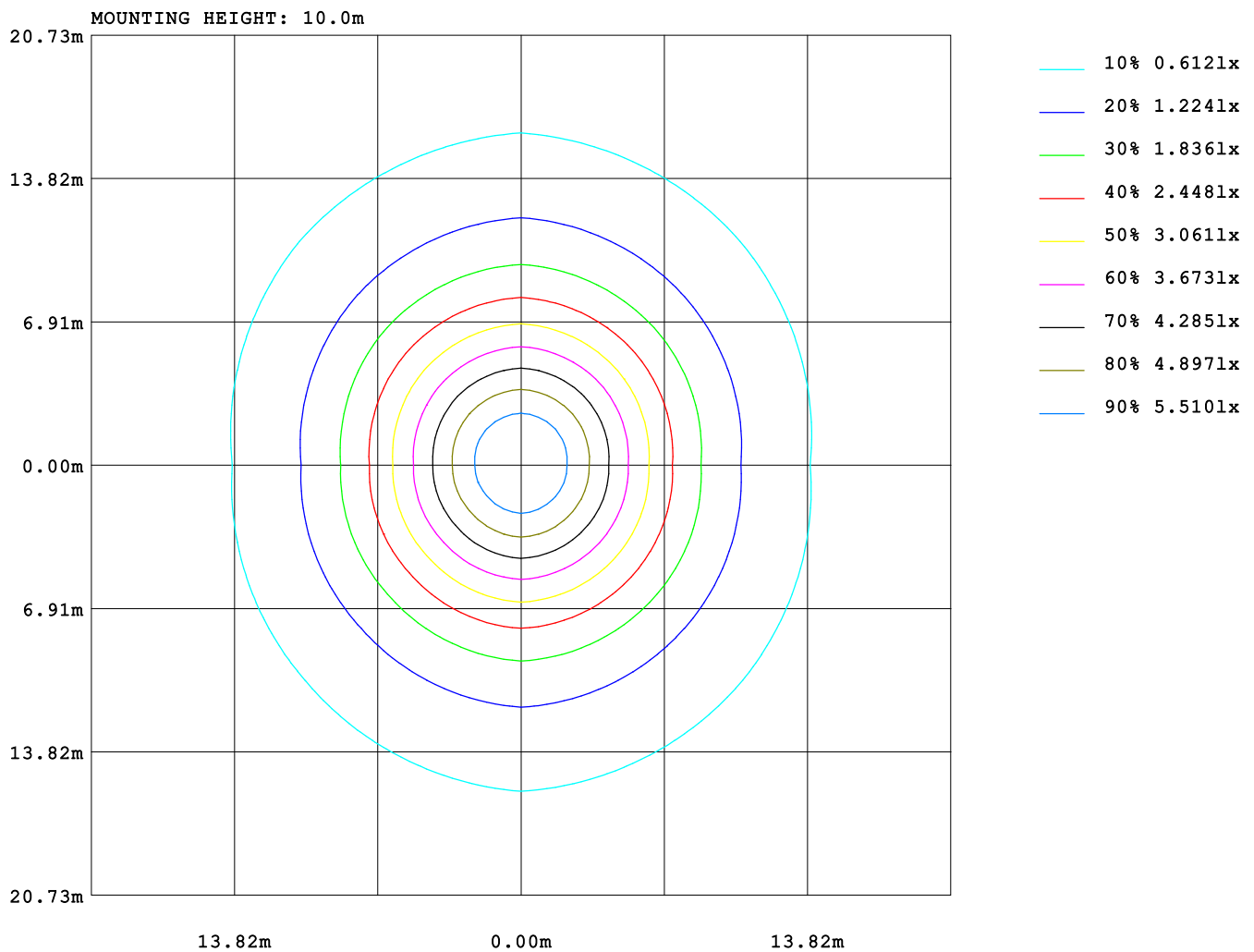
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## ISOLUX DIAGRAM

Report number:

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Address:			
NAME: Ava		TYPE: IL-TL27-N02040-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 4000	DIMENSION:	SERIAL No. :



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

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Test Distance:10.000 m  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N02040-120	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	612	612	613	612	612	612	613	612
5.0	609	608	610	608	609	612	613	612
10.0	599	600	603	599	600	606	610	606
15.0	584	587	592	585	586	596	602	596
20.0	564	569	578	567	565	581	591	581
25.0	538	549	561	545	540	562	577	561
30.0	507	523	541	519	510	539	560	537
35.0	473	495	520	489	475	513	539	510
40.0	435	465	495	457	436	482	515	479
45.0	393	432	469	423	394	450	490	446
50.0	350	397	441	386	349	416	461	411
55.0	303	363	412	350	302	379	431	374
60.0	254	327	381	313	253	343	399	337
65.0	205	291	351	276	202	307	367	300
70.0	155	258	320	241	150	271	333	264
75.0	106	225	289	208	105	237	302	229
80.0	61.7	194	260	176	55.0	205	269	197
85.0	26.4	166	231	148	20.3	175	238	167
90.0	9.30	139	203	122	4.69	148	210	140
95.0	6.20	117	177	101	3.23	124	182	117
100.0	5.60	98.7	153	80.6	3.28	103	156	95.6
105.0	5.33	72.5	131	58.8	3.41	76.4	132	70.2
110.0	5.24	53.5	104	44.2	3.64	58.7	105	53.2
115.0	5.24	43.7	87.1	34.6	3.78	47.3	87.0	42.9
120.0	5.24	34.8	70.7	27.4	4.01	38.1	71.0	34.6
125.0	5.28	27.7	57.4	21.7	4.19	30.9	56.8	28.1
130.0	5.37	22.2	45.8	17.6	4.37	25.0	45.1	23.2
135.0	5.47	17.8	35.8	14.2	4.60	20.2	34.1	18.9
140.0	5.51	13.9	27.7	11.3	4.74	16.2	26.5	14.6
145.0	5.60	10.5	21.0	9.25	4.92	12.9	19.9	11.5
150.0	5.65	8.43	15.7	7.65	5.10	10.4	14.6	9.61
155.0	5.69	7.02	11.9	6.56	5.24	8.66	10.7	8.25
160.0	5.74	6.10	9.25	5.88	5.37	7.38	8.16	7.24
165.0	5.79	5.60	7.61	5.51	5.51	6.61	6.47	6.56
170.0	5.79	5.37	6.74	5.42	5.60	6.24	5.65	6.24
175.0	5.79	5.33	6.38	5.42	5.65	6.10	5.42	6.06
180.0	5.79	5.37	6.24	5.51	5.79	6.01	5.51	6.01

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