Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949003

Luminaire Tested: **GALN-SB3D-850-U-T2U-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P949003
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB3D-850-U-T2U-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	22319 lumens
Efficiency:	N/A
Efficacy:	102.3 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	218.1
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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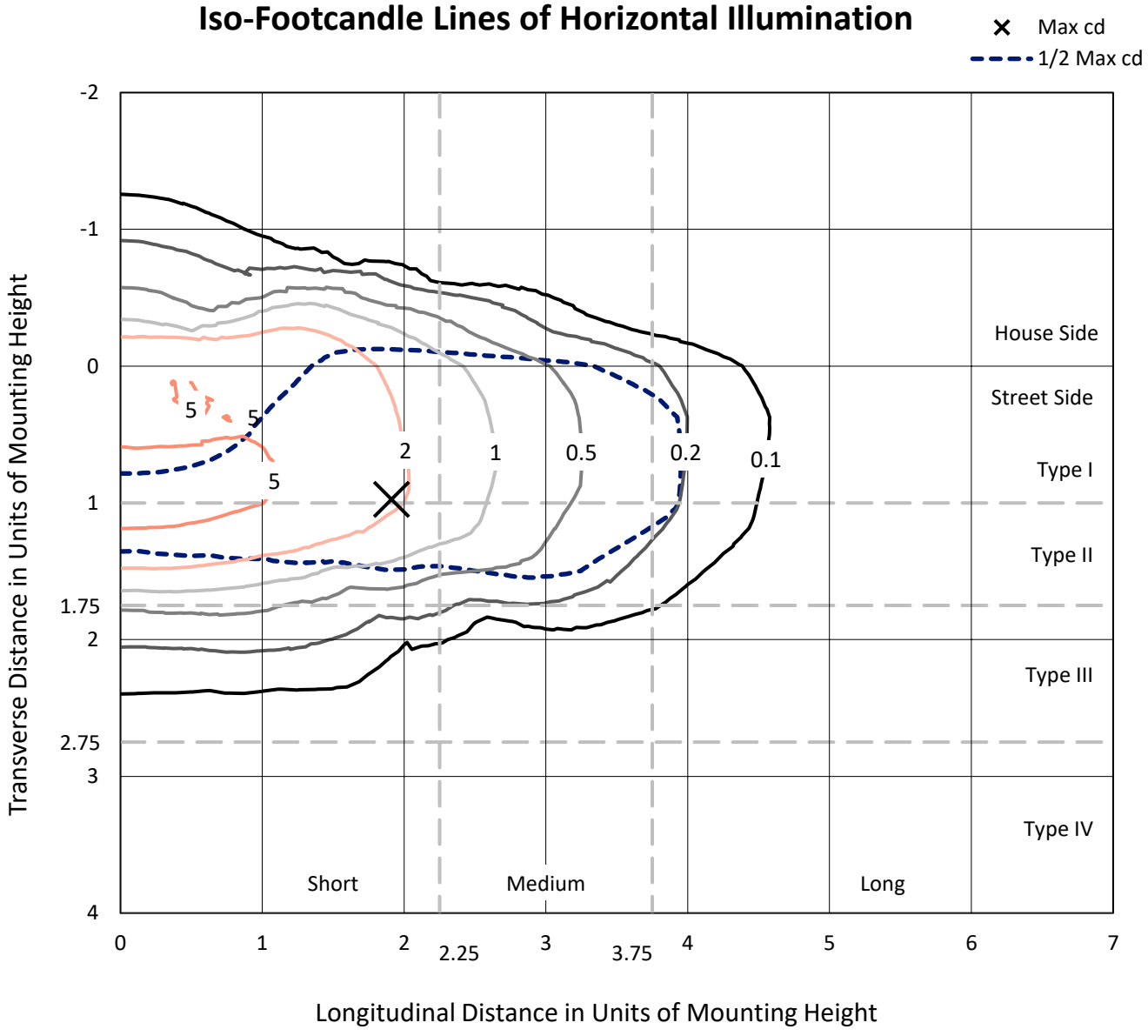
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type II - Short - N/A

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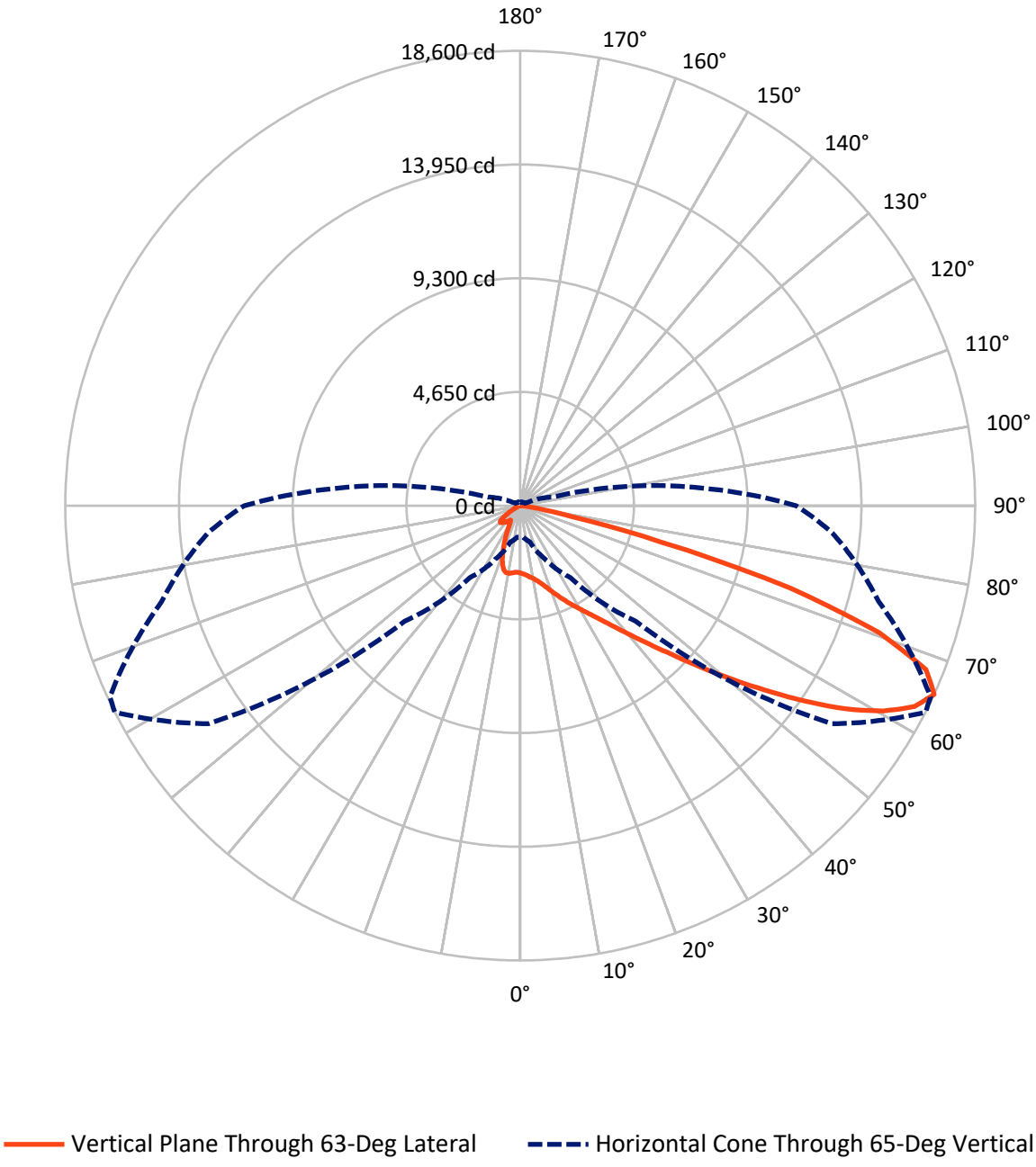
Luminous Intensity Polar Plot



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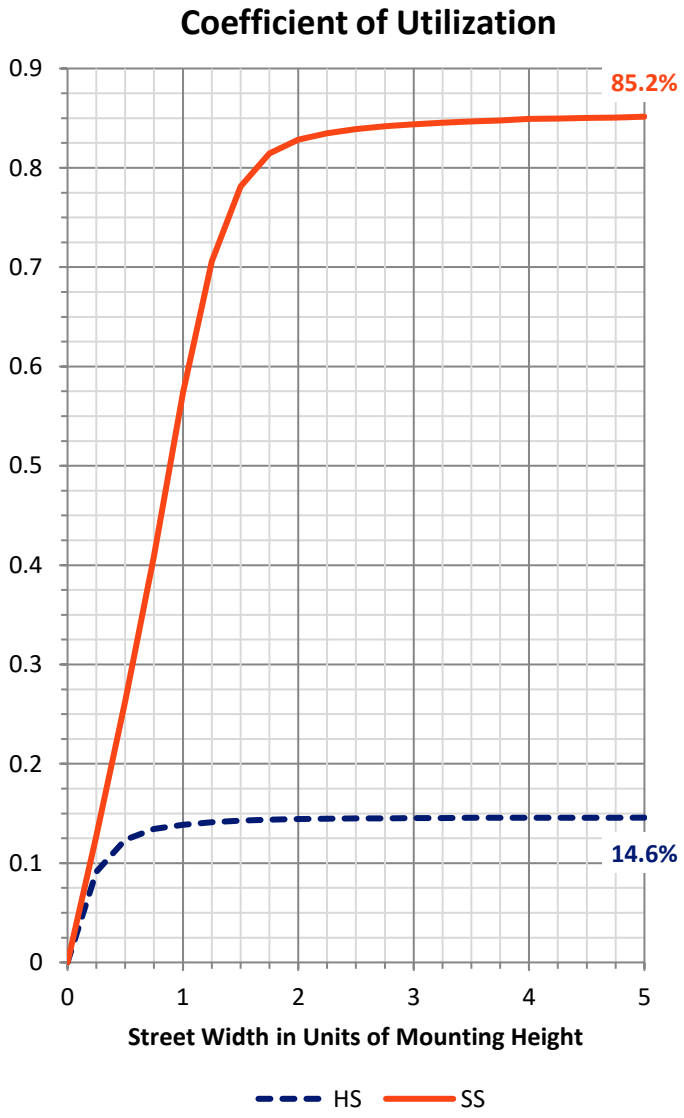
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3280.7	0.0	3280.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19038.3	0.0	19038.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	22319.0	0.0	22319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	1.2
10°-20°	720.1	3.2
20°-30°	1253.9	5.6
30°-40°	2260.0	10.1
40°-50°	4482.3	20.1
50°-60°	6105.7	27.4
60°-70°	4873.5	21.8
70°-80°	2205.4	9.9
80°-90°	158.5	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22319.0	100.0
0°-180°	22319.0	100.0



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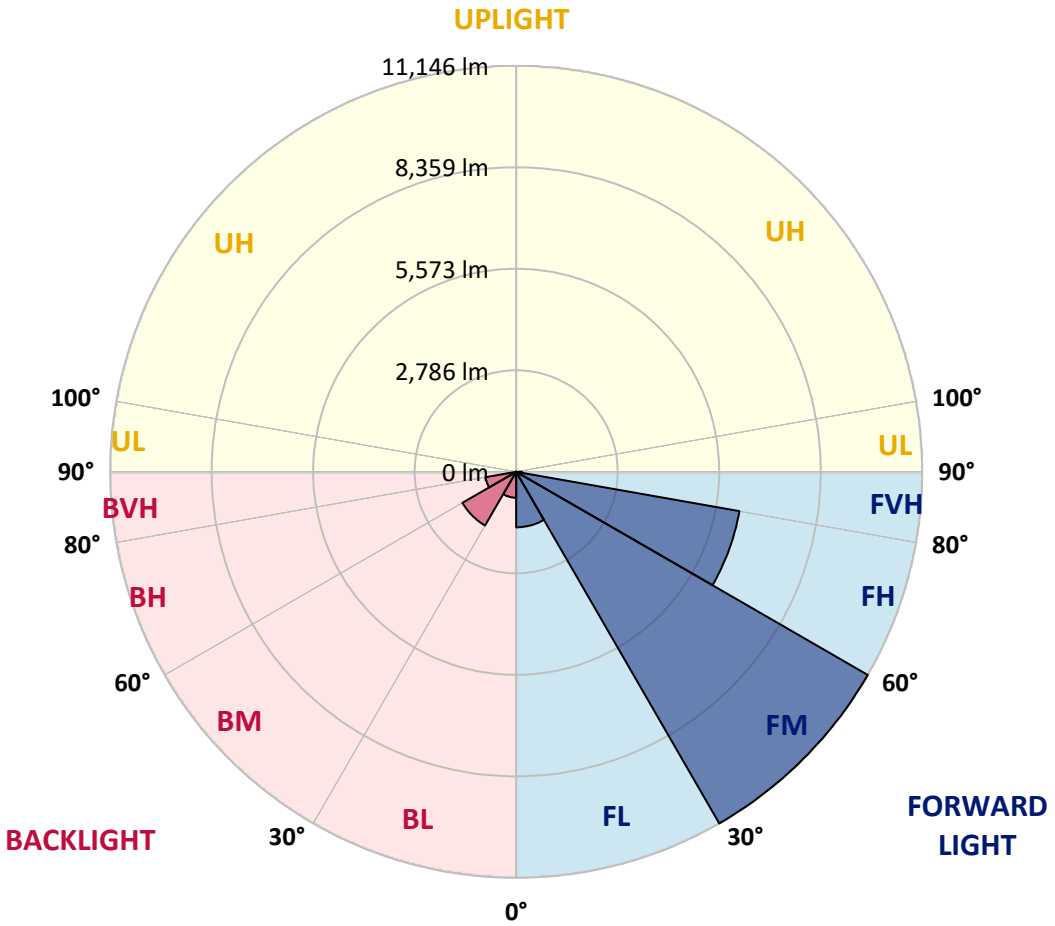
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1523.5	6.8			
FM	(30°-60°)	11145.5	49.9			
FH	(60°-80°)	6222.4	27.9			G3/7500
FVH	(80°-90°)	146.8	0.7			G2/225
BL	(0°-30°)	710.0	3.2	B2/1000		
BM	(30°-60°)	1702.5	7.6	B2/2500		
BH	(60°-80°)	856.5	3.8	B2/1000		G2/1000
BVH	(80°-90°)	11.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	*2754.6*	2754.6	2754.6
2.5°	2819.1	2811.4	2822.1	2817.5	2814.5	2808.3	2805.3	*2802.2*	2796.0	2791.4
5°	2826.8	2822.1	2832.9	2842.1	2851.3	2860.5	2865.1	*2871.3*	2865.1	2852.9
7.5°	2762.3	2759.2	2782.2	2809.9	2851.3	2886.6	2925.0	*2946.5*	2948.1	2943.4
10°	2757.7	2750.0	2773.0	2806.8	2860.5	2923.5	2991.0	*3037.1*	3043.2	3063.2
12.5°	2829.8	2822.1	2854.4	2891.2	2946.5	3012.5	3095.5	*3159.9*	3169.2	3196.8
15°	2951.1	2940.4	2977.2	3024.8	3095.5	3170.7	3258.2	*3316.6*	3324.2	3358.0
17.5°	3092.4	3081.6	3124.6	3175.3	3252.1	3354.9	3456.3	*3520.8*	3530.0	3551.5
20°	3273.6	3259.7	3293.5	3339.6	3421.0	3543.8	3665.1	*3757.2*	3755.7	3755.7
22.5°	3483.9	3462.4	3491.6	3528.5	3605.2	3754.2	3915.4	*4024.4*	4024.4	3981.4
25°	3709.6	3688.1	3720.4	3754.2	3821.7	3990.6	4179.5	*4314.6*	4320.7	4247.0
27.5°	3992.2	3964.5	3989.1	4029.0	4068.9	4240.9	4465.1	*4621.7*	4624.8	4511.1
30°	4535.7	4457.4	4380.6	4337.6	4356.1	4526.5	4766.0	*4939.5*	4954.9	4798.3
32.5°	5530.7	5515.3	5245.1	4891.9	4707.7	4833.6	5102.3	*5311.1*	5320.3	5119.2
35°	7076.9	7058.4	6623.9	5951.4	5351.0	5245.1	5510.7	*5757.9*	5751.8	5524.5
37.5°	8922.5	8905.6	8332.9	7433.1	6461.1	5866.9	6037.4	*6296.9*	6335.2	6037.4
40°	10499.4	10436.4	10074.0	9206.5	7935.2	6898.7	6786.7	*6958.6*	6998.6	6645.4
42.5°	11693.9	11640.2	11455.9	10913.9	9719.4	8425.0	7669.5	*7735.6*	7780.1	7356.3
45°	12312.7	12300.4	12374.1	12323.5	11537.3	10298.2	8931.7	*8656.8*	8673.7	8144.0
47.5°	12400.2	12394.1	12730.4	13206.4	13100.4	12411.0	10551.6	*9805.3*	9745.5	9033.0
50°	11884.3	11872.1	12516.9	13409.0	14144.5	14186.0	12391.0	*11099.7*	10967.7	9952.7
52.5°	10236.8	10233.7	11293.2	12778.0	14511.5	15739.8	14209.0	*12521.5*	12300.4	10926.2
55°	7876.8	7933.6	9148.2	10903.2	13842.0	16487.6	15841.2	*14100.0*	13760.6	11905.8
57.5°	5579.8	5662.7	6863.4	8426.5	11766.1	16045.4	16945.2	*15681.5*	15316.1	12882.4
60°	2997.2	3070.9	4273.1	6138.7	8753.6	14396.3	17527.1	*17054.2*	16708.7	13809.8
62.5°	1785.7	1810.3	2307.8	3963.0	5920.7	10998.4	17279.9	*18099.8*	17815.8	14588.3
65°	*1282.1*	*1286.7*	*1537.0*	*2419.9*	*3594.5*	*6682.3*	*15546.4*	*18600.4*	*18512.8*	*15174.8*
67.5°	1079.4	1076.3	1180.8	1607.6	2449.0	3347.3	11915.0	*17892.5*	18264.1	15546.4
70°	925.9	930.5	1053.3	1177.7	1841.0	1894.7	5923.7	*15578.6*	16370.9	15644.6
72.5°	689.4	704.8	818.4	1073.3	1389.6	1303.6	2045.2	*11551.1*	12983.7	14740.3
75°	486.7	494.4	575.8	902.8	1036.4	948.9	1044.1	*5971.3*	7807.7	11300.9
77.5°	374.6	388.5	436.1	631.1	1021.1	666.4	638.7	*2066.7*	3175.3	6826.6
80°	202.7	227.2	314.8	456.0	717.1	471.4	316.3	*823.0*	1076.3	3192.2
82.5°	104.4	116.7	219.6	328.6	408.4	411.5	156.6	*342.4*	443.7	985.8
85°	41.5	50.7	147.4	181.2	210.4	202.7	70.6	*138.2*	159.7	273.3
87.5°	9.2	15.4	53.7	41.5	39.9	43.0	16.9	*32.2*	30.7	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2754.6	0°	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6
2773.0	2.5°	2771.5	2765.3	2748.4	2730.0	2708.5	2696.2	2688.6	2687.0	2676.3	2668.6
2834.4	5°	2817.5	2811.4	2779.2	2740.8	2699.3	2667.1	2636.4	2608.7	2568.8	2561.1
2923.5	7.5°	2909.7	2892.8	2840.6	2788.4	2710.1	2616.4	2502.8	2372.3	2255.6	2220.3
3041.7	10°	3023.3	3000.3	2934.2	2842.1	2668.6	2413.7	2138.9	1884.0	1681.3	1624.5
3181.4	12.5°	3152.3	3132.3	3044.8	2874.4	2495.1	2032.9	1612.2	1295.9	1099.4	1050.2
3330.4	15°	3305.8	3276.6	3155.3	2825.2	2184.9	1544.7	1107.1	919.7	849.1	839.9
3500.8	17.5°	3468.6	3421.0	3253.6	2648.6	1767.3	1097.8	855.2	801.5	770.8	761.6
3672.8	20°	3617.5	3556.1	3312.0	2381.5	1320.5	855.2	766.2	730.9	703.2	692.5
3844.8	22.5°	3766.4	3678.9	3312.0	2017.6	990.4	758.5	703.2	671.0	638.7	624.9
4029.0	25°	3921.5	3804.8	3253.6	1612.2	796.9	695.6	643.4	608.0	580.4	563.5
4204.0	27.5°	4072.0	3910.8	3120.0	1228.4	709.4	640.3	588.1	554.3	528.2	515.9
4394.4	30°	4214.8	4015.2	2932.7	932.0	652.6	586.5	537.4	508.2	482.1	469.8
4641.6	32.5°	4408.3	4147.2	2733.1	764.7	603.4	535.9	491.3	463.7	440.7	431.5
4962.6	35°	4677.0	4342.2	2561.1	750.8	562.0	494.4	449.9	423.8	400.8	393.1
5377.1	37.5°	5057.8	4657.0	2470.5	843.0	528.2	457.6	416.1	388.5	367.0	360.8
5903.8	40°	5527.6	5083.9	2519.7	935.1	505.2	425.3	385.4	357.8	339.3	331.7
6508.7	42.5°	6085.0	5610.5	2791.4	1005.7	489.8	397.7	356.2	325.5	313.2	310.2
7195.1	45°	6725.2	6189.4	3207.5	1081.0	465.2	371.6	327.0	304.0	294.8	293.3
7941.3	47.5°	7453.0	6825.0	3689.7	1174.6	440.7	347.0	304.0	288.7	281.0	277.9
8719.8	50°	8174.7	7465.3	4185.6	1226.8	420.7	324.0	285.6	273.3	267.2	265.6
9542.8	52.5°	8930.1	8124.0	4586.4	1177.7	403.8	305.6	270.2	261.0	254.9	253.3
10301.3	55°	9650.3	8656.8	4655.5	999.6	370.0	287.1	253.3	248.7	241.1	241.1
11070.6	57.5°	10270.6	8924.0	4167.2	733.9	336.3	259.5	236.5	231.9	225.7	224.2
11764.6	60°	10840.2	8847.2	3216.8	494.4	299.4	231.9	215.0	211.9	205.7	198.1
12368.0	62.5°	11161.1	8509.4	2200.3	322.4	262.6	202.7	190.4	188.9	175.0	159.7
12814.8	65°	*11282.4*	*7815.4*	*1372.7*	*234.9*	*219.6*	*173.5*	*164.3*	*161.2*	*141.3*	*124.4*
13068.2	67.5°	11176.5	6673.0	692.5	185.8	173.5	144.3	135.1	135.1	121.3	105.9
13052.8	70°	10752.7	5002.5	291.7	148.9	133.6	110.6	110.6	116.7	102.9	86.0
12375.7	72.5°	9833.0	3365.7	155.1	113.6	99.8	78.3	90.6	95.2	81.4	64.5
10129.3	75°	7816.9	2052.9	107.5	84.4	63.0	55.3	69.1	72.2	55.3	43.0
6944.8	77.5°	5346.4	1179.2	72.2	53.7	39.9	32.2	47.6	44.5	29.2	20.0
2677.8	80°	2347.7	491.3	41.5	24.6	15.4	12.3	16.9	12.3	9.2	6.1
367.0	82.5°	274.8	115.2	15.4	9.2	6.1	3.1	1.5	0.0	0.0	0.0
112.1	85°	56.8	13.8	7.7	3.1	1.5	0.0	0.0	0.0	0.0	0.0
20.0	87.5°	10.7	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

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180°
2754.6
2676.3
2558.0
2203.4
1603.0
1036.4
830.7
757.0
686.3
617.2
557.4
515.9
471.4
431.5
393.1
359.3
330.1
310.2
291.7
277.9
265.6
253.3
239.5
222.6
196.5
156.6
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