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

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: P950393

Luminaire Tested: **GALN-SB4D-835-U-T4W-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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

Test Information

Test Method:	LM-79-08
Report Number:	P950393
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4D-835-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29138 lumens
Efficiency:	N/A
Efficacy:	99.2 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5
Input Watts (W):	293.6
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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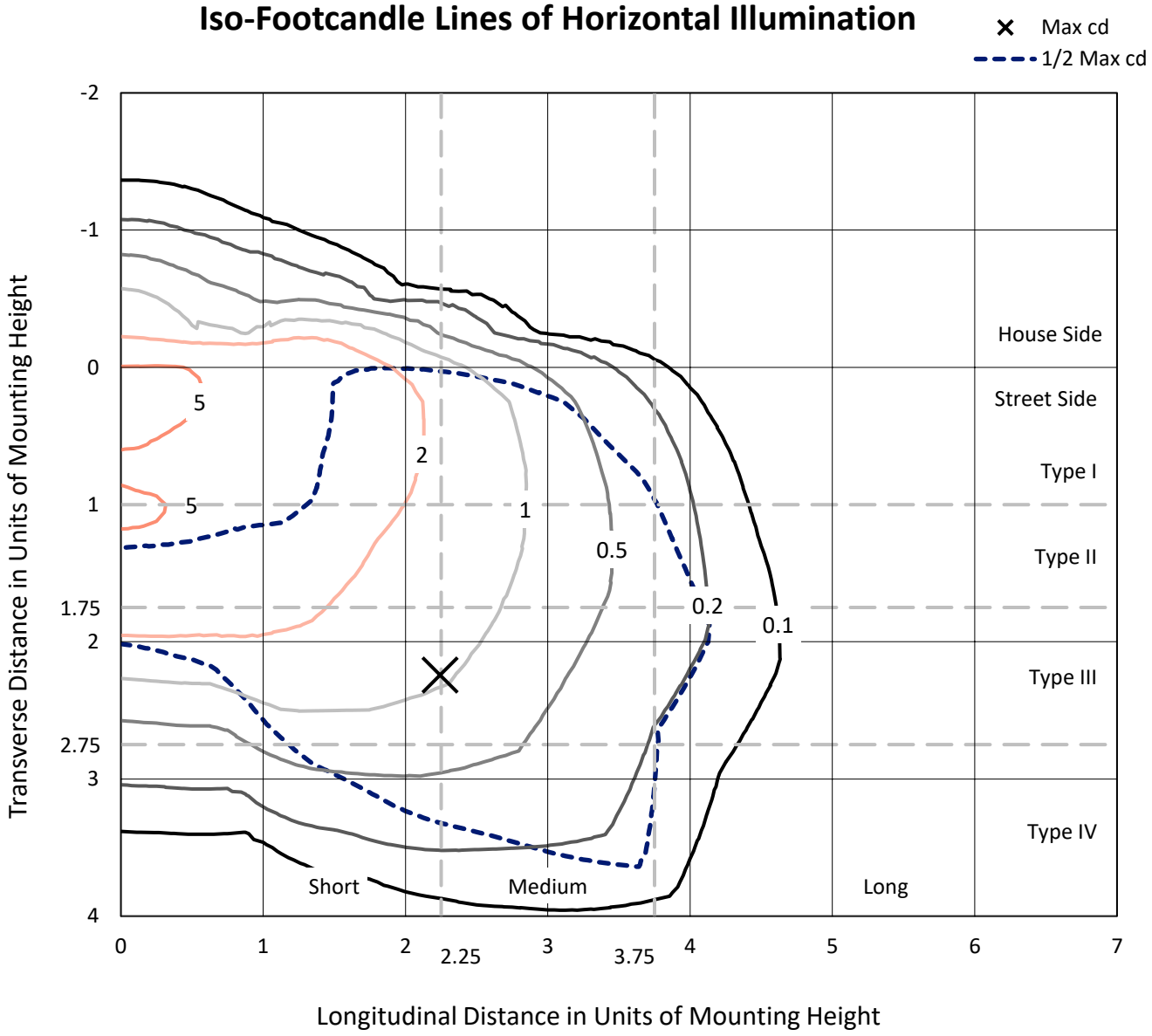
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - N/A

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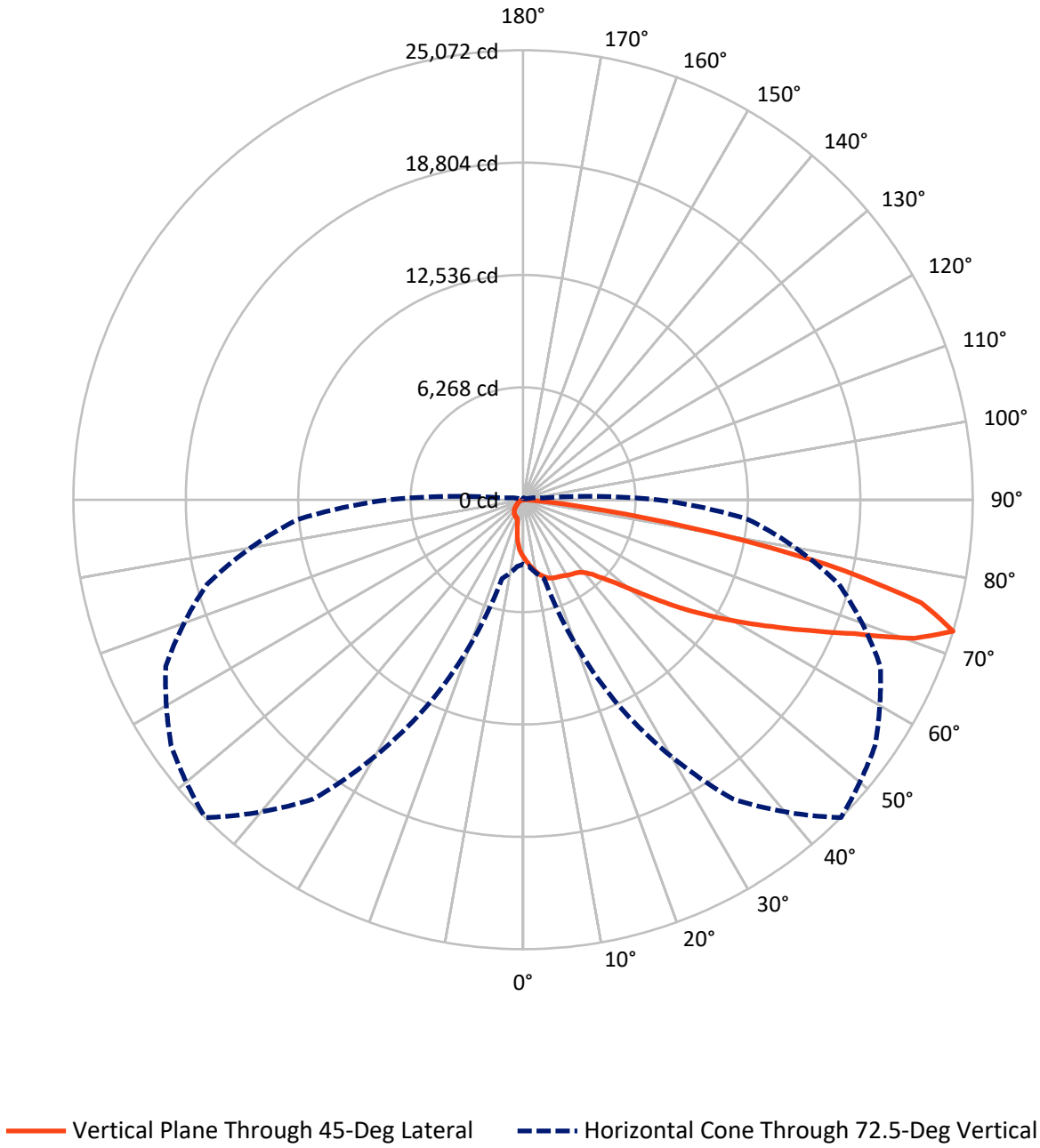
Luminous Intensity Polar Plot



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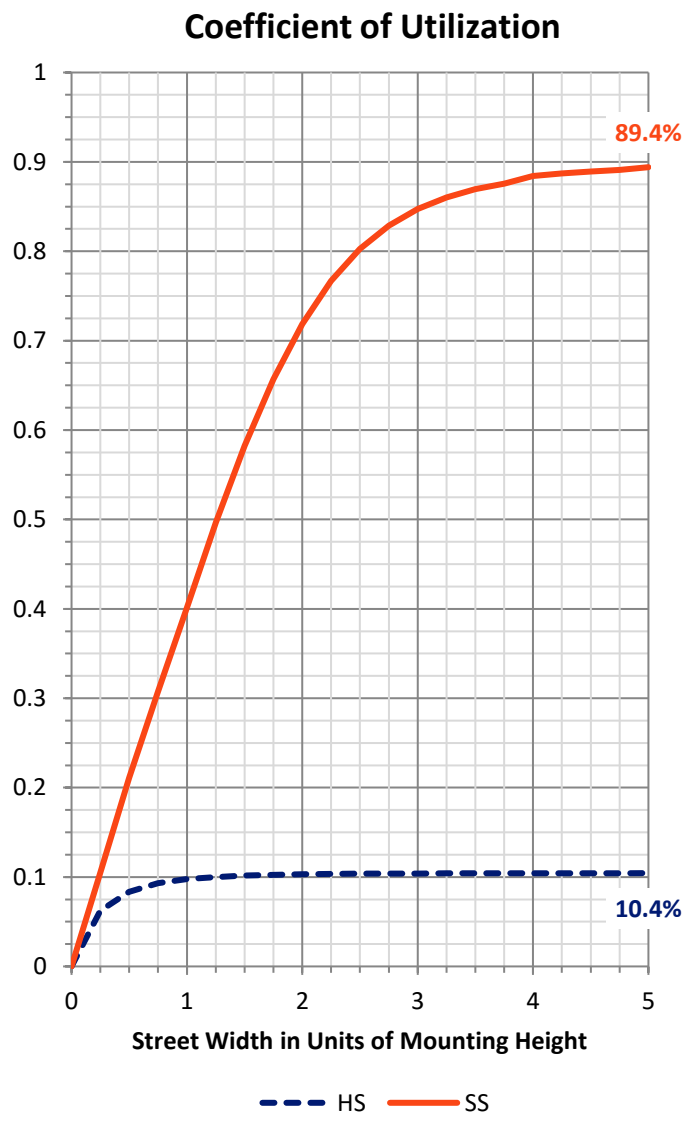
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3061.6	0.0	3061.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26076.4	0.0	26076.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	29138.0	0.0	29138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.0
10°-20°	879.0	3.0
20°-30°	1443.5	5.0
30°-40°	2047.2	7.0
40°-50°	3383.7	11.6
50°-60°	6078.5	20.9
60°-70°	8440.3	29.0
70°-80°	6122.4	21.0
80°-90°	442.6	1.5
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°	29138.0	100.0
0°-180°	29138.0	100.0



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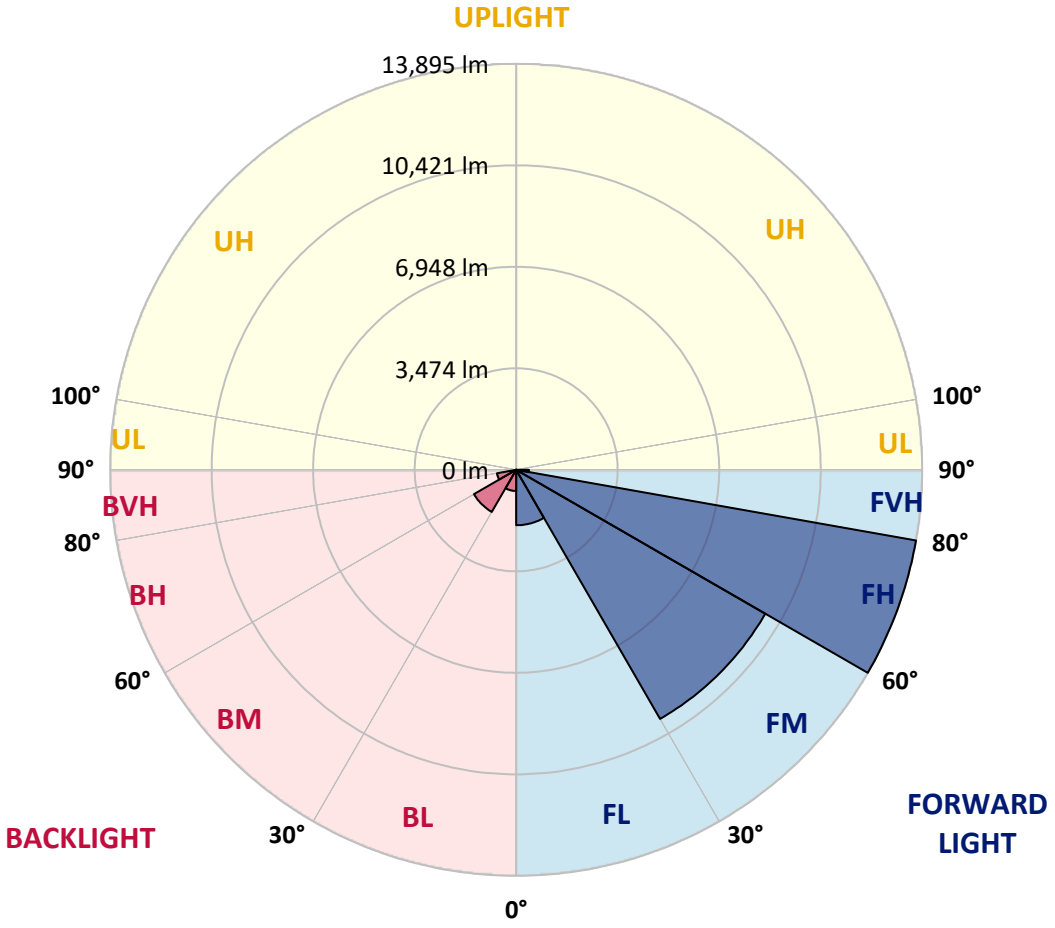
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1898.1	6.5			
FM	(30°-60°)	9844.4	33.8			
FH	(60°-80°)	13895.1	47.7			G5
FVH	(80°-90°)	438.9	1.5			G3/500
BL	(0°-30°)	725.2	2.5	B2/1000		
BM	(30°-60°)	1665.1	5.7	B2/2500		
BH	(60°-80°)	667.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3192.1	3192.1	3192.1	3192.1	3192.1	*3192.1*	3192.1	3192.1	3192.1	3192.1
2.5°	3486.5	3492.4	3488.5	3464.6	3424.8	*3402.9*	3391.0	3351.2	3325.4	3279.6
5°	3806.7	3830.6	3816.6	3768.9	3693.3	*3639.6*	3623.7	3542.2	3468.6	3383.1
7.5°	4146.8	4158.7	4132.9	4071.2	3969.8	*3878.3*	3864.4	3751.0	3633.7	3502.4
10°	4441.1	4455.1	4415.3	4325.8	4210.4	*4097.1*	4077.2	3951.9	3812.7	3651.6
12.5°	4687.8	4701.7	4650.0	4542.6	4415.3	*4297.9*	4278.1	4146.8	3993.6	3814.6
15°	4874.7	4900.6	4831.0	4715.6	4578.4	*4461.0*	4451.1	4321.8	4172.6	3973.8
17.5°	4984.1	5010.0	4944.3	4805.1	4687.8	*4588.3*	4576.4	4469.0	4329.8	4138.8
20°	5002.0	5025.9	4956.3	4834.9	4737.5	*4657.9*	4652.0	4574.4	4473.0	4290.0
22.5°	4948.3	4978.1	4914.5	4817.0	4749.4	*4707.6*	4699.7	4655.9	4598.3	4443.1
25°	4892.6	4916.5	4868.7	4783.2	4747.4	*4743.4*	4749.4	4741.5	4729.5	4598.3
27.5°	4888.6	4914.5	4860.8	4779.2	4759.4	*4801.1*	4807.1	4844.9	4854.8	4739.5
30°	4922.4	4940.3	4888.6	4803.1	4793.2	*4888.6*	4890.6	4958.2	4974.2	4858.8
32.5°	4996.0	5015.9	4964.2	4838.9	4825.0	*4958.2*	4964.2	5053.7	5079.6	4986.1
35°	5169.1	5192.9	5133.3	4938.4	4888.6	*5023.9*	5041.8	5147.2	5198.9	5121.3
37.5°	5600.6	5531.0	5449.5	5139.2	5033.8	*5127.3*	5157.1	5280.4	5371.9	5282.4
40°	6672.6	6453.9	6199.3	5481.3	5288.4	*5348.1*	5371.9	5495.2	5620.5	5533.0
42.5°	8281.6	8023.1	7613.4	6268.9	5672.2	*5702.1*	5720.0	5827.4	6004.4	5934.8
45°	9715.6	9622.1	9204.5	7613.4	6390.2	*6243.1*	6264.9	6320.6	6581.2	6555.3
47.5°	10817.4	10763.7	10441.5	9156.7	7603.4	*6905.3*	6967.0	6992.9	7368.7	7460.2
50°	11664.7	11644.8	11356.4	10529.1	9188.6	*7881.9*	7903.8	7848.1	8410.9	8637.6
52.5°	12464.2	12531.8	12319.0	11803.9	10881.1	*9160.7*	9156.7	8894.2	9654.0	9996.0
55°	13186.2	13210.0	13231.9	13104.6	12583.6	*10616.6*	10578.8	10149.2	11095.9	11449.9
57.5°	13864.4	13874.3	14069.2	14329.8	14355.6	*12179.8*	12110.2	11595.1	12671.1	12923.7
60°	14319.8	14365.6	14777.3	15501.2	15817.5	*13792.8*	13755.0	13229.9	14274.1	14391.4
62.5°	13663.5	13942.0	14980.1	16416.1	17197.7	*15580.8*	15562.9	15069.6	15960.6	15865.2
65°	11060.1	11531.4	13357.2	17034.6	18552.1	*17577.6*	17603.5	17078.4	17693.0	17382.7
67.5°	7736.7	8233.9	10393.8	17084.4	20065.7	*19922.5*	20071.6	19248.2	19532.7	18836.5
70°	5350.0	5606.6	7012.7	16014.3	21245.1	*23152.4*	23148.4	21913.3	21362.4	19498.8
72.5°	*3597.9*	*3731.1*	*4554.5*	*12704.9*	*20377.9*	*25071.6*	*24956.3*	*23949.9*	*21979.0*	*18235.9*
75°	1517.5	1615.0	2108.2	7140.0	16121.7	*22937.6*	22625.3	21165.5	19528.7	14359.6
77.5°	481.3	523.1	831.3	2555.7	8880.3	*17241.5*	16911.3	13218.0	13088.7	7203.7
80°	228.7	266.5	467.4	1026.3	3494.4	*9377.5*	9331.8	5996.4	5630.5	1945.1
82.5°	99.4	117.3	258.6	548.9	1563.2	*3345.3*	3412.9	2040.6	1688.5	737.9
85°	31.8	41.8	119.3	252.6	660.3	*831.3*	821.4	485.3	680.2	401.8
87.5°	0.0	0.0	39.8	57.7	67.6	*47.7*	53.7	41.8	188.9	111.4
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°
3192.1	0°	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1	3192.1
3231.9	2.5°	3208.0	3176.2	3120.5	3068.8	3023.1	2977.3	2949.5	2909.7	2905.7	2905.7
3283.6	5°	3229.9	3178.2	3078.8	2973.4	2852.0	2736.7	2621.3	2509.9	2474.1	2448.3
3367.2	7.5°	3293.6	3212.0	3054.9	2854.0	2623.3	2370.7	2193.7	2002.8	1929.2	1889.4
3478.5	10°	3385.0	3273.7	3035.0	2683.0	2309.1	1965.0	1712.4	1505.6	1426.0	1392.2
3599.8	12.5°	3486.5	3349.3	2999.2	2470.2	1965.0	1553.3	1306.7	1211.2	1199.3	1199.3
3745.0	15°	3607.8	3440.7	2937.6	2219.6	1605.0	1229.1	1141.6	1145.6	1157.5	1165.5
3886.2	17.5°	3733.1	3538.2	2840.1	1939.1	1286.8	1105.8	1107.8	1113.8	1123.7	1131.7
4039.4	20°	3868.3	3635.6	2710.8	1640.8	1103.8	1070.0	1076.0	1081.9	1089.9	1093.9
4182.6	22.5°	4013.5	3727.1	2557.7	1348.5	1042.2	1040.2	1042.2	1048.1	1058.1	1058.1
4349.6	25°	4168.7	3828.6	2382.7	1135.6	1010.3	1010.3	1014.3	1018.3	1026.3	1026.3
4510.7	27.5°	4327.8	3922.0	2197.7	1024.3	982.5	980.5	980.5	986.5	990.5	992.4
4669.9	30°	4502.8	4031.4	2012.7	1000.4	960.6	950.7	944.7	948.7	952.7	954.7
4836.9	32.5°	4681.8	4136.8	1847.7	1010.3	938.7	920.8	901.0	897.0	897.0	904.9
5010.0	35°	4880.7	4252.2	1720.4	1044.2	926.8	877.1	845.3	827.4	829.4	841.3
5216.8	37.5°	5119.3	4391.4	1626.9	1074.0	918.9	827.4	775.7	753.8	739.9	753.8
5501.2	40°	5431.6	4596.3	1559.3	1097.9	908.9	769.7	700.1	664.3	638.4	646.4
5942.7	42.5°	5891.0	4918.5	1533.4	1099.8	887.0	702.1	622.5	574.8	537.0	539.0
6607.0	45°	6535.4	5427.6	1666.7	1074.0	839.3	628.5	541.0	477.3	453.5	447.5
7599.5	47.5°	7418.5	6169.5	1974.9	1020.3	769.7	556.9	461.4	407.7	389.8	379.9
8902.2	50°	8601.8	7122.1	2317.0	960.6	700.1	489.3	395.8	362.0	350.0	340.1
10447.5	52.5°	9974.2	8088.7	2597.5	901.0	630.5	429.6	354.0	334.1	324.2	316.2
11939.2	55°	11233.1	8755.0	2581.5	837.3	562.8	381.9	324.2	312.3	300.3	292.4
13224.0	57.5°	12016.7	8848.5	2128.1	767.7	485.3	344.1	296.3	288.4	274.5	264.5
14335.7	60°	12376.7	8315.4	1491.6	676.2	407.7	308.3	266.5	262.5	244.6	230.7
15387.9	62.5°	12442.3	7325.0	994.4	562.8	340.1	274.5	236.7	230.7	206.8	183.0
16243.1	65°	12175.8	5908.9	688.1	439.5	290.4	238.7	202.9	190.9	165.1	141.2
16445.9	67.5°	11332.6	4148.8	479.3	316.2	246.6	188.9	161.1	157.1	137.2	117.3
15411.7	70°	9787.2	2364.8	320.2	236.7	194.9	129.3	127.3	131.3	111.4	95.5
12591.5	72.5°	*7504.0*	*1081.9*	*198.9*	*173.0*	*133.3*	*87.5*	*101.4*	*103.4*	*85.5*	*71.6*
7856.0	75°	4417.3	463.4	125.3	111.4	67.6	57.7	73.6	75.6	57.7	45.7
2871.9	77.5°	1503.6	175.0	79.6	65.6	33.8	31.8	47.7	47.7	31.8	17.9
576.8	80°	342.1	65.6	39.8	25.9	15.9	13.9	15.9	13.9	8.0	2.0
177.0	82.5°	97.5	25.9	15.9	9.9	6.0	6.0	2.0	0.0	0.0	0.0
61.7	85°	27.8	11.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
21.9	87.5°	11.9	2.0	0.0	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

180°
3192.1
2915.7
2460.2
1895.4
1392.2
1199.3
1165.5
1131.7
1095.9
1062.1
1028.2
994.4
958.6
910.9
847.3
749.8
642.4
531.0
439.5
373.9
338.1
314.2
288.4
262.5
226.7
171.0
133.3
111.4
87.5
63.6
39.8
13.9
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