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: P955737

Luminaire Tested: **GALN-SB8C-835-U-SL3**

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:	P955737
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8C-835-U-SL3
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	54897 lumens
Efficiency:	N/A
Efficacy:	137.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B4 - U0 - G5
Input Watts (W):	399.8
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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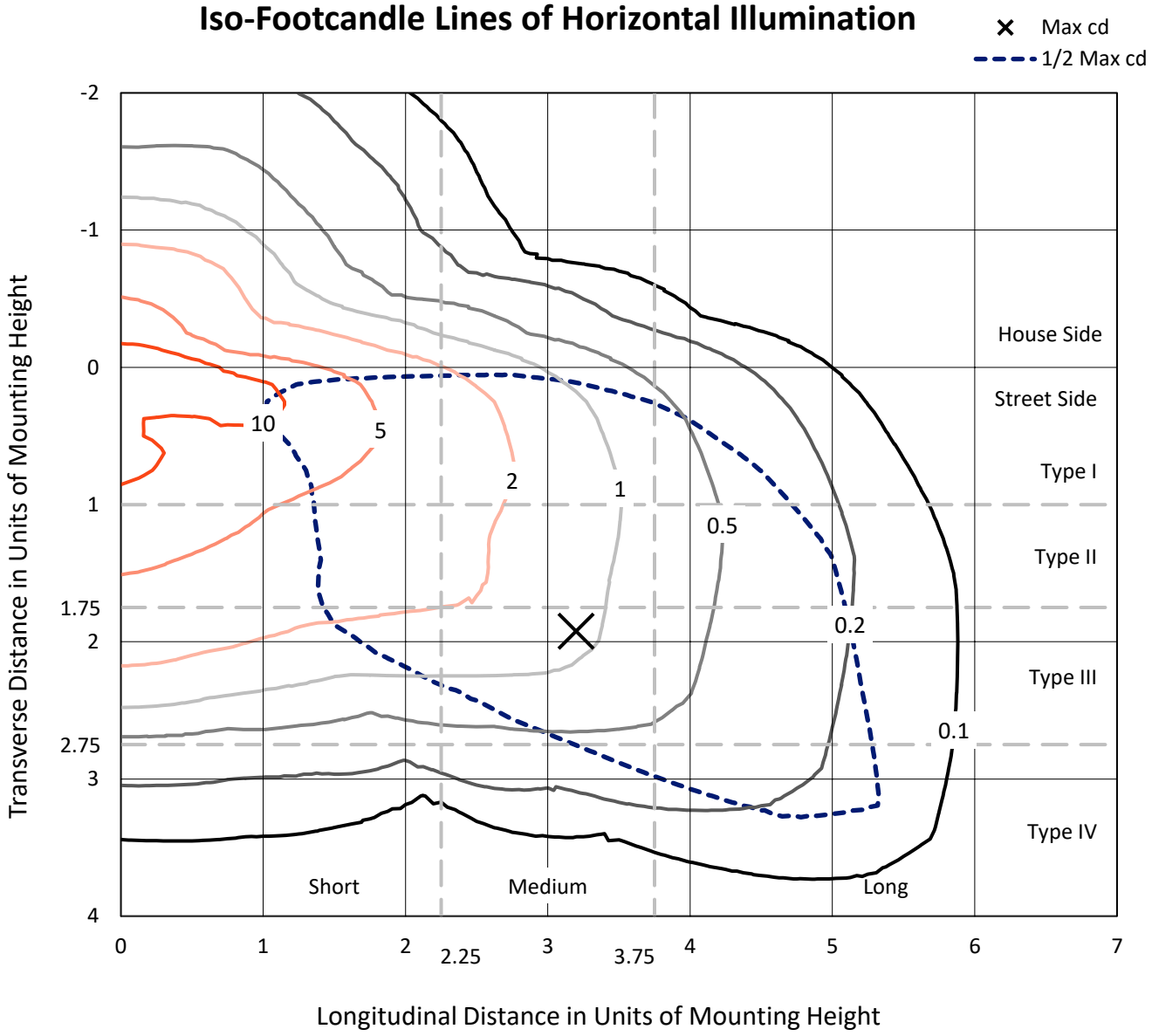
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
Type IV - Medium - N/A

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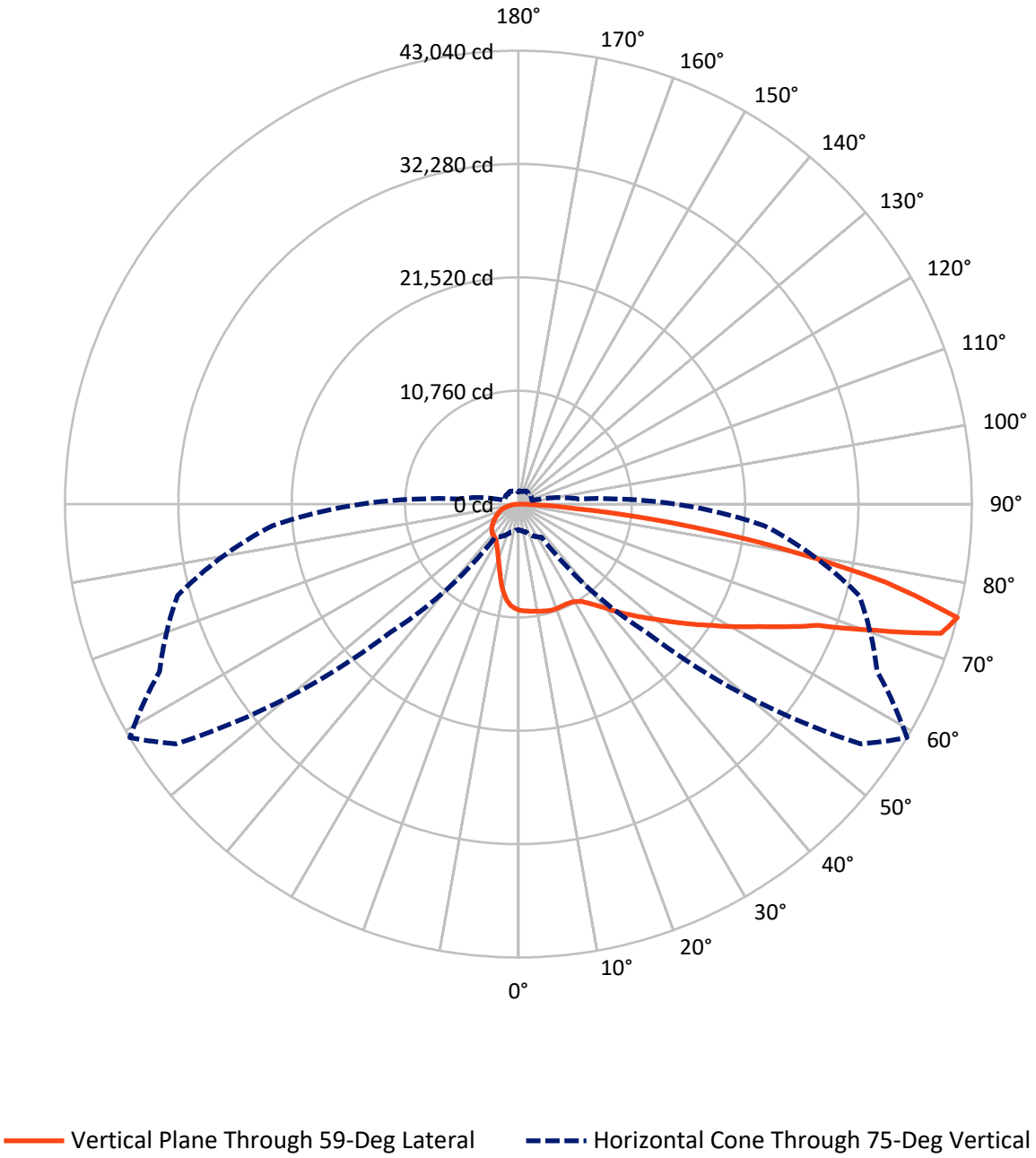
Luminous Intensity Polar Plot



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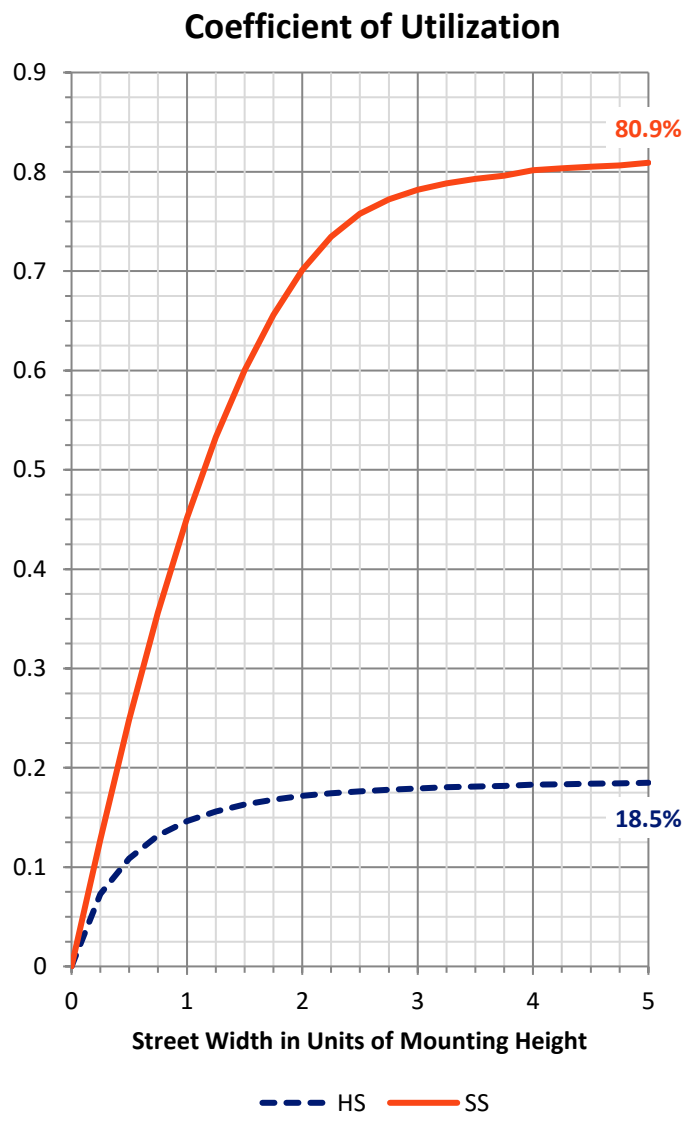
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10296.3	0.0	10296.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	44600.7	0.0	44600.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	54897.0	0.0	54897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	903.5	1.6
10°-20°	2309.4	4.2
20°-30°	3507.8	6.4
30°-40°	5214.2	9.5
40°-50°	7754.5	14.1
50°-60°	10525.8	19.2
60°-70°	12850.2	23.4
70°-80°	10084.7	18.4
80°-90°	1746.9	3.2
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°	54897.0	100.0
0°-180°	54897.0	100.0



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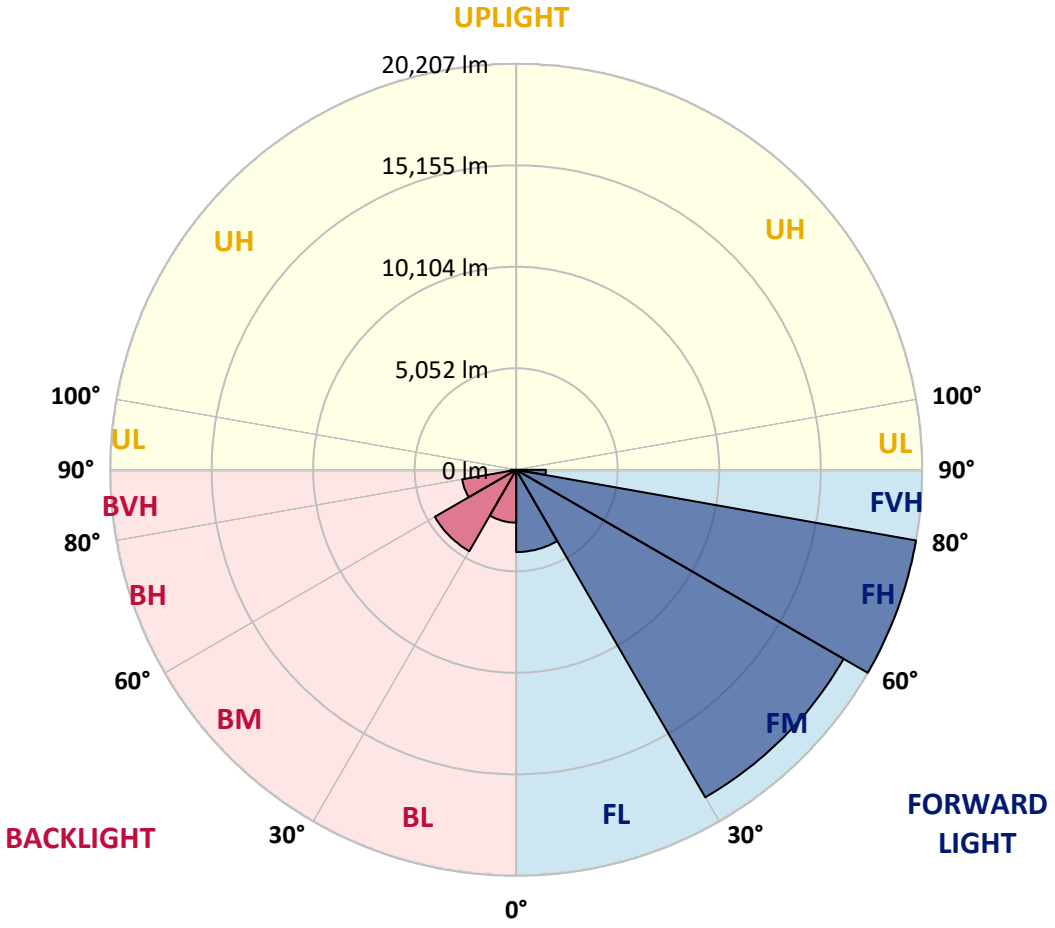
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	4093.2	7.5			
FM	(30°-60°)	18821.0	34.3			
FH	(60°-80°)	20207.0	36.8			G5
FVH	(80°-90°)	1479.5	2.7			G5
BL	(0°-30°)	2627.5	4.8	B4/5000		
BM	(30°-60°)	4673.5	8.5	B3/5000		
BH	(60°-80°)	2727.9	5.0	B4/5000		G4/5000
BVH	(80°-90°)	267.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	10076.2	10076.2	10076.2	10076.2	10076.2	10076.2	10076.2	*10076.2*	10076.2	10076.2
2.5°	10161.9	10126.4	10161.9	10147.1	10141.2	10129.4	10132.3	*10153.0*	10141.2	10156.0
5°	10093.9	10073.3	10108.7	10099.8	10138.2	10144.1	10182.5	*10206.2*	10220.9	10223.9
7.5°	9981.7	9961.0	10011.3	10052.6	10135.3	10158.9	10238.6	*10277.0*	10297.7	10333.1
10°	9571.2	9562.4	9686.4	9842.9	10037.8	10158.9	10280.0	*10345.0*	10377.4	10471.9
12.5°	8844.7	8856.6	9019.0	9320.2	9710.0	10099.8	10327.2	*10421.7*	10471.9	10590.1
15°	8150.8	8147.8	8325.0	8646.9	9193.2	9840.0	10350.9	*10513.3*	10598.9	10773.2
17.5°	7749.1	7737.3	7861.3	8106.5	8614.4	9441.3	10291.8	*10563.5*	10746.6	10965.1
20°	7675.3	7651.7	7716.6	7837.7	8198.0	9004.2	10138.2	*10563.5*	10864.7	11148.2
22.5°	7944.0	7905.6	7879.1	7864.3	8023.8	8643.9	9964.0	*10528.1*	11039.0	11411.1
25°	8484.5	8425.4	8289.6	8156.7	8109.4	8481.5	9810.4	*10519.2*	11298.8	11765.4
27.5°	9358.6	9284.8	9010.1	8691.2	8404.7	8564.2	9742.5	*10572.4*	11585.3	12140.5
30°	10442.4	10362.7	10017.2	9526.9	9013.1	8871.3	9828.2	*10728.9*	11951.5	12639.6
32.5°	11414.0	11325.4	11030.1	10531.0	9837.0	9402.9	10099.8	*11027.1*	12527.4	13333.6
35°	12276.3	12173.0	11907.2	11446.5	10847.0	10150.1	10590.1	*11555.8*	13345.4	14461.7
37.5°	13120.9	12999.9	12710.5	12223.2	11803.8	11145.3	11266.4	*12235.0*	14432.2	15832.0
40°	14066.0	13891.7	13540.3	13058.9	12651.4	12311.8	12155.3	*13067.8*	15536.6	17361.7
42.5°	14981.4	14816.1	14396.7	13986.2	13475.3	13377.9	13185.9	*14042.3*	16744.5	19042.1
45°	15967.8	15769.9	15262.0	14742.2	14420.3	14086.6	14184.1	*15016.9*	17928.7	20754.9
47.5°	16892.1	16670.7	16071.2	15492.3	15315.1	14683.2	15099.6	*16088.9*	19160.2	22491.4
50°	17391.2	17172.7	16673.6	16150.9	16012.1	15418.5	16091.8	*17267.2*	20450.7	24221.9
52.5°	17807.6	17571.4	16918.7	16629.3	16588.0	16218.8	17314.4	*18613.8*	21741.3	25751.7
55°	18250.6	17987.8	17155.0	16895.1	17084.1	17116.6	18764.5	*20140.6*	23105.6	27243.0
57.5°	18761.5	18427.8	17382.4	17119.5	17568.4	18167.9	20430.0	*21723.5*	24446.4	28625.1
60°	19242.9	18906.2	17819.4	17476.9	18091.1	19387.6	22340.7	*23640.1*	25964.3	29856.6
62.5°	19337.4	19059.8	18167.9	18165.0	18799.9	20811.0	24602.9	*25574.5*	27290.3	31073.3
65°	17701.3	17527.1	16998.5	18138.4	19815.8	22860.5	27121.9	*28049.2*	28976.5	32136.4
67.5°	13472.4	13496.0	13457.6	15657.7	18994.8	25804.8	30769.1	*30698.2*	31058.5	33329.5
70°	6160.3	6299.1	7202.8	10808.6	15217.7	26144.4	36799.5	*35881.0*	33672.1	34874.0
72.5°	3328.2	3434.5	3803.7	5236.0	9148.9	23244.4	41306.0	*41958.7*	37147.9	35913.5
75°	*2442.3*	*2501.3*	*2758.3*	*3328.2*	*3842.1*	*17276.1*	*39690.6*	*43039.5*	*37582.1*	*33489.0*
77.5°	1828.0	1854.6	2064.3	2637.2	1966.8	9107.6	31714.1	*35644.8*	32171.9	27514.7
80°	1326.0	1355.5	1512.0	1978.6	1379.1	3331.2	21776.7	*25019.3*	22033.6	17538.9
82.5°	915.5	927.3	995.2	1346.6	962.7	1293.5	12356.1	*14671.4*	12300.0	6154.4
85°	552.2	567.0	596.5	785.5	546.3	614.3	5333.4	*5516.5*	3676.7	1470.7
87.5°	227.4	242.2	265.8	330.8	215.6	171.3	880.0	*1104.5*	688.1	431.2
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°
10076.2	0°	10076.2	10076.2	10076.2	10076.2	10076.2	10076.2	10076.2	10076.2	10076.2	10076.2
10105.8	2.5°	10091.0	10070.3	10014.2	9937.4	9866.5	9778.0	9739.6	9707.1	9677.5	9621.4
10185.5	5°	10153.0	10096.9	9946.3	9751.4	9529.9	9287.7	9051.5	8889.0	8750.2	8646.9
10277.0	7.5°	10247.5	10141.2	9866.5	9467.9	8959.9	8440.2	7970.6	7636.9	7385.9	7294.3
10407.0	10°	10345.0	10218.0	9739.6	9036.7	8159.6	7359.3	6736.2	6393.6	6192.8	6127.8
10560.5	12.5°	10460.1	10274.1	9541.7	8437.2	7264.8	6387.7	5844.3	5643.5	5540.2	5504.7
10749.5	15°	10628.5	10321.3	9243.4	7687.1	6411.3	5678.9	5327.5	5188.7	5135.6	5132.6
10944.5	17.5°	10755.5	10330.2	8779.8	6883.8	5755.7	5250.7	4961.3	4908.2	4943.6	4996.8
11136.4	20°	10897.2	10250.5	8171.4	6151.5	5295.0	4875.7	4754.6	4790.0	4875.7	4952.5
11390.4	22.5°	10997.6	10105.8	7436.1	5581.5	4896.4	4660.1	4654.2	4728.0	4775.3	4813.7
11688.7	25°	11086.2	9860.6	6656.4	5103.1	4568.6	4530.2	4595.1	4571.5	4539.0	4571.5
11986.9	27.5°	11151.2	9473.8	5959.5	4683.7	4338.2	4441.6	4403.2	4350.0	4347.1	4364.8
12338.4	30°	11130.5	8957.0	5386.6	4285.1	4175.8	4276.2	4184.6	4175.8	4166.9	4175.8
12867.0	32.5°	11130.5	8369.3	4946.6	4010.4	4072.4	4034.0	4025.2	4004.5	3969.1	3966.1
13584.6	35°	11192.5	7781.6	4568.6	3862.7	3986.8	3895.2	3901.1	3850.9	3777.1	3741.7
14535.5	37.5°	11319.5	7309.1	4193.5	3791.9	3836.2	3833.2	3809.6	3723.9	3594.0	3481.8
15722.7	40°	11626.6	7170.3	3936.6	3759.4	3765.3	3800.7	3738.7	3573.3	3278.0	3094.9
16927.6	42.5°	12108.0	7403.6	3880.5	3679.7	3718.0	3753.5	3632.4	3248.5	3038.8	2929.5
18191.5	45°	12719.3	7811.1	4001.5	3564.5	3605.8	3667.8	3307.6	3124.5	3030.0	3032.9
19443.7	47.5°	13493.0	8239.3	4226.0	3464.1	3443.4	3478.8	3092.0	2979.8	2849.8	2882.3
20645.6	50°	14387.9	8673.5	4438.6	3328.2	3263.3	3148.1	2953.2	2846.9	2681.5	2604.7
21806.2	52.5°	15356.5	9092.8	4524.3	3162.8	3068.3	2935.5	2858.7	2728.7	2527.9	2400.9
22901.8	55°	16274.9	9473.8	4429.8	2965.0	2873.4	2770.1	2758.3	2678.5	2462.9	2285.8
23876.4	57.5°	17143.2	9792.7	4193.5	2764.2	2675.6	2613.6	2693.3	2654.9	2383.2	2155.8
24797.8	60°	17878.5	10011.3	3850.9	2560.4	2498.4	2465.9	2587.0	2575.2	2271.0	2017.0
25624.7	62.5°	18463.2	10096.9	3472.9	2365.5	2350.7	2291.7	2439.3	2439.3	2129.2	1881.2
26351.2	65°	18921.0	10014.2	3089.0	2173.5	2203.1	2114.5	2259.2	2241.5	1978.6	1760.1
27186.9	67.5°	19325.6	9742.5	2663.8	1984.5	2052.5	1940.2	2070.2	2028.8	1813.2	1639.0
27910.4	70°	19505.7	9110.5	2179.4	1795.5	1878.2	1768.9	1881.2	1804.4	1627.2	1509.1
27116.0	72.5°	18058.6	7571.9	1715.8	1597.7	1668.5	1579.9	1677.4	1588.8	1426.4	1373.2
23415.7	75°	*14940.1*	*5681.9*	*1320.1*	*1382.1*	*1435.2*	*1367.3*	*1432.3*	*1367.3*	*1219.7*	*1258.1*
17296.7	77.5°	10850.0	3836.2	1010.0	1154.7	1178.3	1142.9	1199.0	1125.2	992.3	983.4
8620.3	80°	5395.4	2247.4	791.5	912.5	903.7	880.0	945.0	909.6	797.4	844.6
2327.1	82.5°	1562.2	962.7	575.9	640.8	623.1	629.0	676.3	694.0	1039.5	1030.7
723.5	85°	490.2	378.0	345.5	357.3	339.6	348.5	398.7	791.5	732.4	428.2
224.4	87.5°	127.0	129.9	85.6	91.5	94.5	112.2	127.0	481.4	230.3	150.6
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°
10076.2
9594.9
8561.2
7134.9
6027.4
5513.6
5144.4
5017.4
4979.0
4834.3
4592.2
4394.3
4208.3
4004.5
3777.1
3520.2
3118.5
2929.5
3047.7
2965.0
2625.4
2398.0
2285.8
2144.0
2008.2
1872.3
1748.3
1627.2
1485.4
1328.9
1148.8
939.1
835.7
1054.3
463.6
159.5
0.0

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