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: P950010

Luminaire Tested: **GALN-SB4C-830-U-T2R**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P950010
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4C-830-U-T2R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27470 lumens
Efficiency:	N/A
Efficacy:	136.9 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3
Input Watts (W):	200.7
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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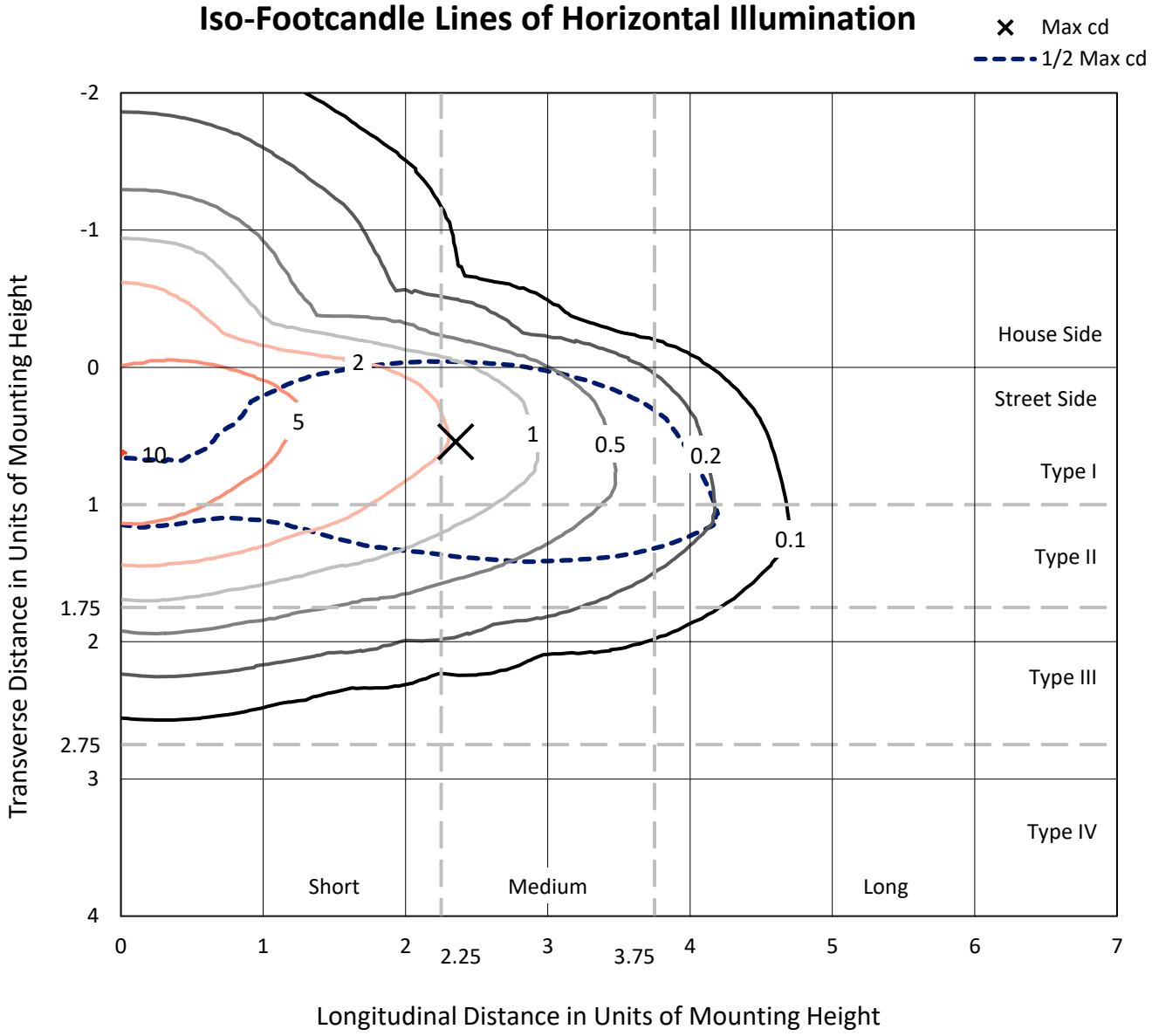
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type II - Medium - N/A

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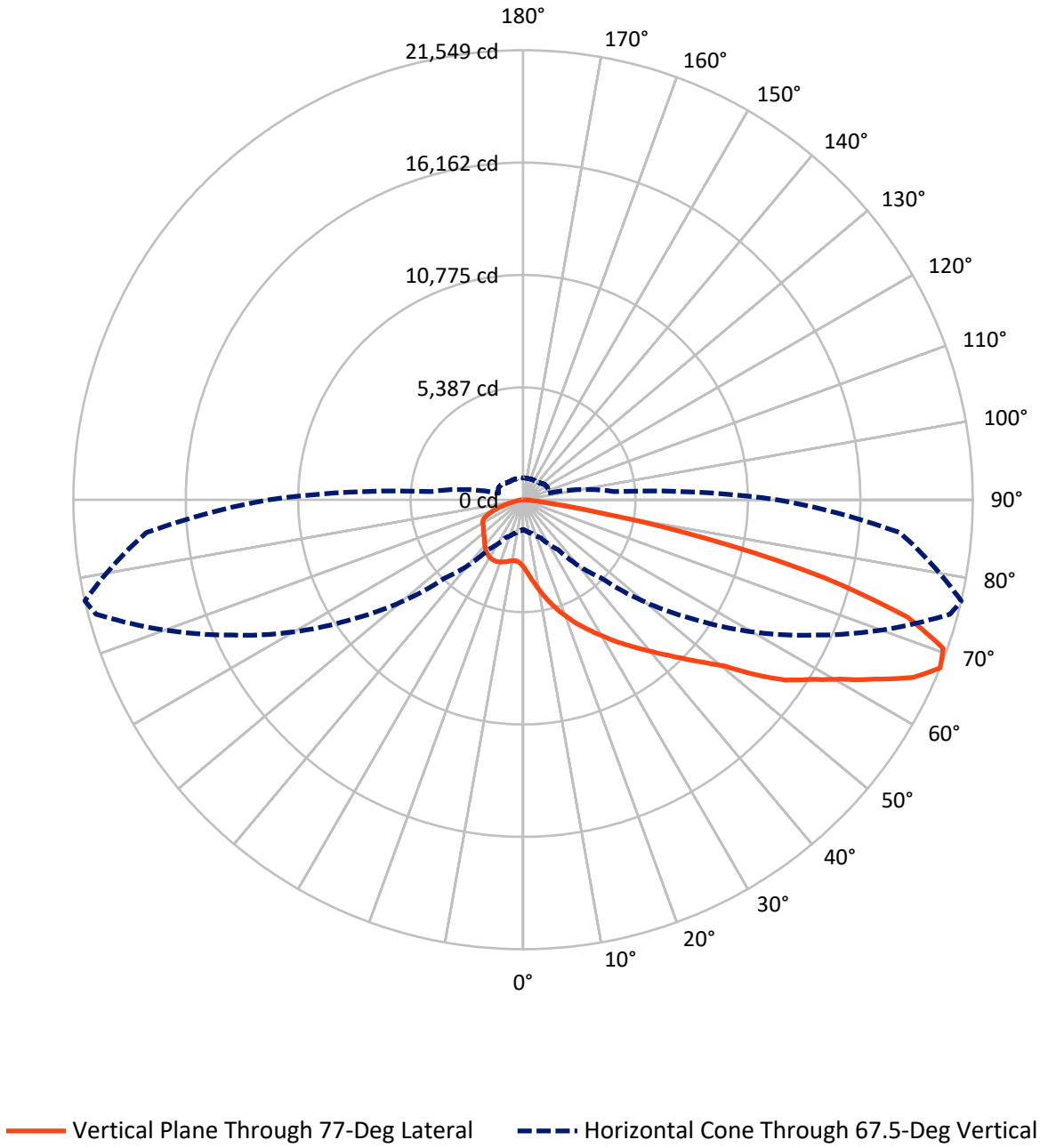
Luminous Intensity Polar Plot



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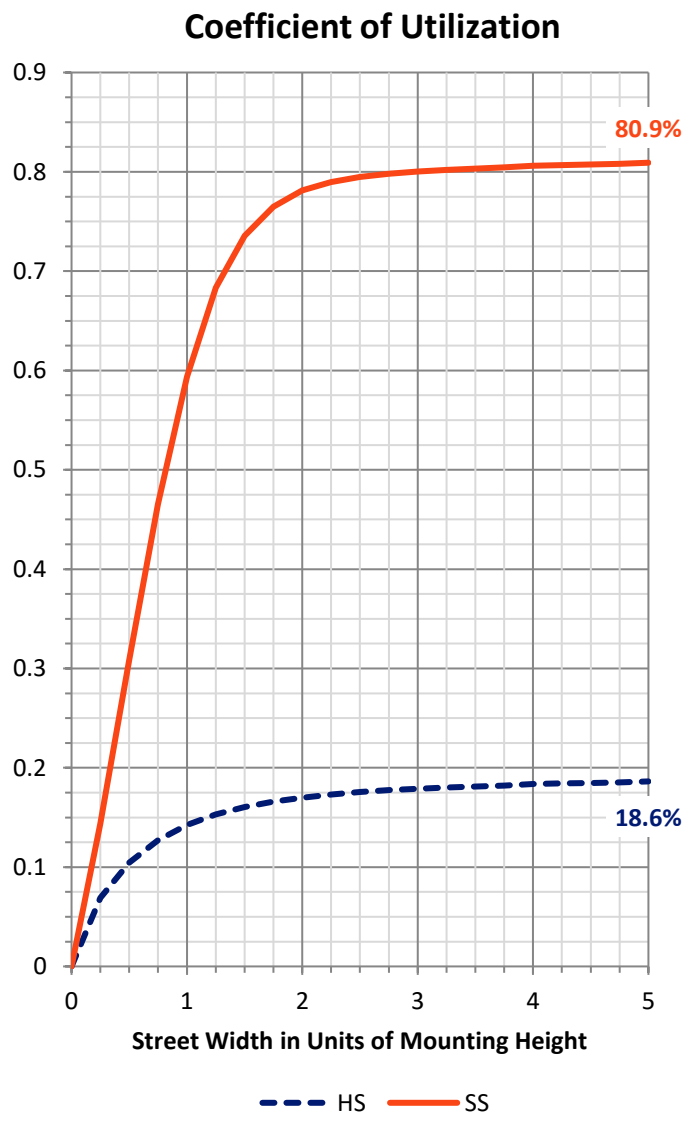
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5196.2	0.0	5196.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22273.8	0.0	22273.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	27470.0	0.0	27470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.5	1.3
10°-20°	1241.1	4.5
20°-30°	2343.4	8.5
30°-40°	3775.2	13.7
40°-50°	5163.7	18.8
50°-60°	5824.7	21.2
60°-70°	5436.7	19.8
70°-80°	2980.2	10.8
80°-90°	359.5	1.3
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°	27470.0	100.0
0°-180°	27470.0	100.0



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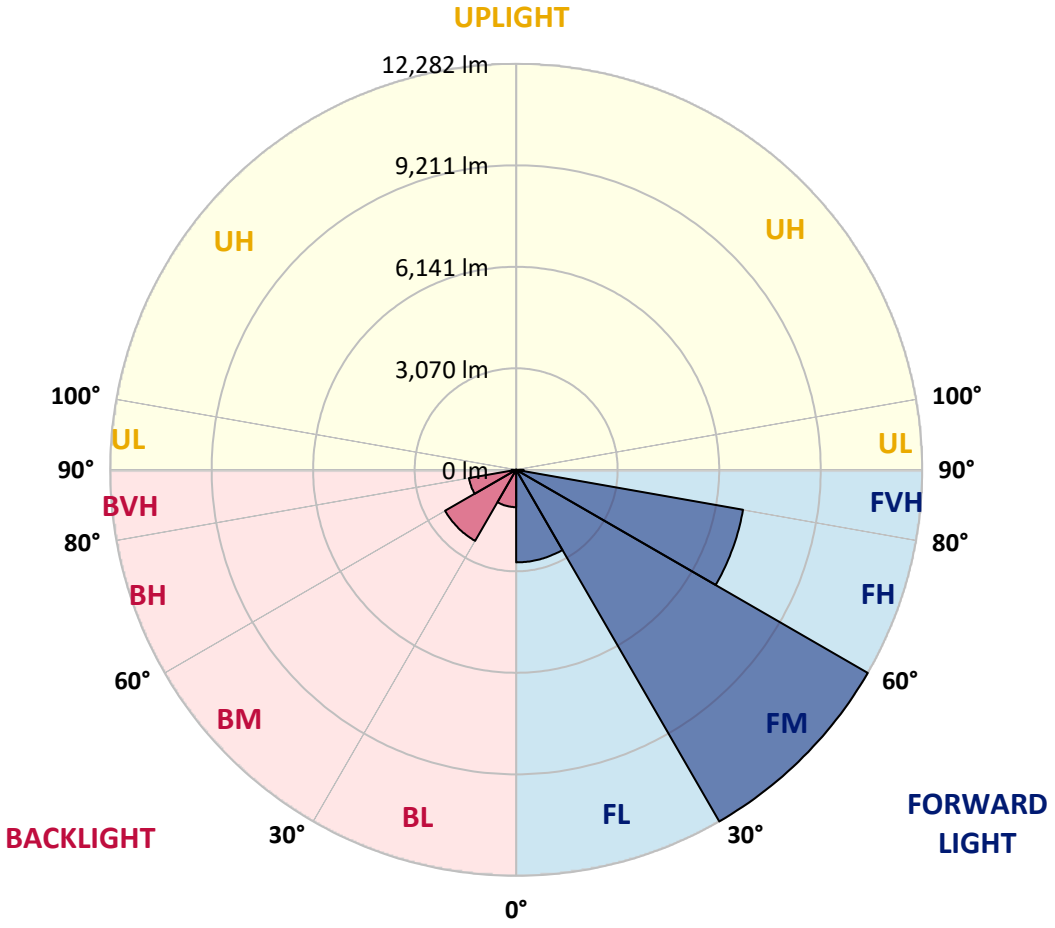
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2800.2	10.2			
FM	(30°-60°)	12281.5	44.7			
FH	(60°-80°)	6967.2	25.4			G3/7500
FVH	(80°-90°)	224.8	0.8			G2/225
BL	(0°-30°)	1129.8	4.1	B3/2500		
BM	(30°-60°)	2482.1	9.0	B2/2500		
BH	(60°-80°)	1449.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	134.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	*3223.1*
2.5°	4035.6	4064.0	4028.5	4028.5	3909.4	3847.0	3727.9	3637.1	3474.1	*3445.7*
5°	4770.1	4805.6	4755.9	4734.7	4594.3	4465.2	4265.3	4068.2	3777.5	*3747.7*
7.5°	5338.7	5384.1	5340.1	5317.5	5192.7	5048.0	4814.1	4539.0	4129.2	*4071.0*
10°	5802.4	5809.5	5795.3	5803.8	5706.0	5586.9	5347.2	5026.8	4514.9	*4435.5*
12.5°	6064.7	6097.3	6125.7	6176.8	6159.7	6086.0	5870.5	5487.6	4923.3	*4821.2*
15°	6188.1	6244.8	6308.6	6426.3	6521.3	6539.8	6375.3	5982.5	5338.7	*5215.4*
17.5°	6232.1	6285.9	6386.6	6556.8	6761.0	6898.5	6824.8	6463.2	5749.9	*5608.1*
20°	6454.7	6470.3	6531.2	6692.9	6914.1	7142.4	7197.7	6925.4	6156.9	*5996.7*
22.5°	6931.1	6899.9	6916.9	6990.7	7149.5	7370.7	7496.9	7333.8	6575.2	*6390.9*
25°	7718.1	7627.4	7536.6	7451.5	7532.3	7657.1	7800.3	7742.2	7013.4	*6779.4*
27.5°	8712.1	8601.5	8401.6	8122.2	8024.4	8068.3	8132.2	8120.8	7418.9	*7182.1*
30°	9690.5	9561.5	9323.3	8919.1	8661.1	8544.8	8496.6	8464.0	7859.9	*7607.5*
32.5°	10471.8	10369.7	10135.8	9683.4	9309.1	9110.6	8950.3	8834.1	8320.7	*8068.3*
35°	11155.3	11060.3	10792.3	10298.8	9891.9	9680.6	9470.7	9222.6	8800.0	*8544.8*
37.5°	11779.2	11684.2	11317.0	10803.6	10393.8	10247.8	10060.6	9639.5	9280.7	*9039.7*
40°	12173.4	12152.1	11809.0	11227.6	10802.2	10729.9	10667.5	10123.0	9813.9	*9589.8*
42.5°	12274.1	12320.9	12048.6	11570.8	11165.2	11107.1	11253.1	10670.4	10412.3	*10198.2*
45°	12031.6	12166.3	11987.7	11662.9	11423.3	11392.1	11772.1	11268.7	11074.5	*10878.8*
47.5°	11417.6	11645.9	11572.2	11526.8	11492.8	11627.5	12228.7	11904.0	11824.6	*11654.4*
50°	10178.3	10610.8	10739.8	11026.3	11355.2	11810.4	12644.2	12597.4	12700.9	*12529.3*
52.5°	8035.7	8631.3	9380.0	10097.5	10932.7	11749.4	13100.8	13592.8	14029.6	*13936.0*
55°	6633.3	6901.3	7477.0	8792.9	10113.1	11492.8	13306.4	14396.8	15348.3	*15264.6*
57.5°	5555.7	5795.3	6149.8	7248.7	8873.8	10910.0	13434.0	14887.4	16251.5	*16243.0*
60°	4400.0	4653.8	5016.8	5795.3	7426.0	9903.2	13405.6	15446.1	17404.4	*17475.3*
62.5°	3095.5	3374.8	3777.5	4503.5	5947.0	8598.7	12827.1	15850.3	18761.4	*18954.2*
65°	2034.8	2219.1	2522.6	3149.3	4431.2	6921.2	11722.5	15902.7	20213.4	*20539.5*
67.5°	*1426.5*	*1497.4*	*1676.1*	*2016.4*	*2921.1*	*5307.5*	*9962.8*	*15359.6*	*21181.9*	*21549.1*
70°	1113.1	1148.6	1239.3	1375.4	1834.9	3569.1	7634.4	13947.3	20974.9	*21357.7*
72.5°	961.4	995.4	1029.5	1046.5	1230.8	2203.6	5171.4	11661.5	19025.1	*19284.6*
75°	872.1	880.6	908.9	903.3	938.7	1429.3	2984.9	8496.6	15010.8	*14921.5*
77.5°	733.1	744.4	791.2	784.1	833.8	977.0	1549.9	5483.4	9731.6	*9124.7*
80°	621.1	626.8	677.8	669.3	724.6	707.6	791.2	2794.9	4127.8	*3496.8*
82.5°	215.5	266.6	517.6	533.2	553.0	428.2	456.6	1140.1	1260.6	*965.6*
85°	104.9	112.0	263.7	374.3	372.9	215.5	222.6	407.0	397.0	*312.0*
87.5°	17.0	21.3	31.2	146.1	116.3	56.7	76.6	79.4	82.2	*70.9*
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°
3223.1	0°	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1	3223.1
3337.9	2.5°	3258.5	3187.6	3038.7	2901.2	2793.4	2689.9	2631.8	2582.2	2553.8	2548.1
3493.9	5°	3346.4	3200.4	2929.6	2701.3	2552.4	2441.8	2383.6	2346.8	2328.3	2317.0
3703.8	7.5°	3472.7	3258.5	2872.8	2613.4	2457.4	2378.0	2348.2	2342.5	2341.1	2342.5
3957.6	10°	3647.1	3353.5	2867.2	2592.1	2461.6	2417.7	2416.2	2417.7	2423.3	2424.8
4234.1	12.5°	3835.7	3451.4	2889.9	2610.5	2515.5	2491.4	2487.1	2485.7	2490.0	2492.8
4513.5	15°	4041.3	3580.4	2928.1	2650.2	2575.1	2549.5	2545.3	2536.8	2535.4	2533.9
4807.0	17.5°	4252.5	3708.0	2970.7	2692.8	2613.4	2577.9	2562.3	2542.5	2526.9	2522.6
5110.4	20°	4466.7	3834.2	3000.5	2714.0	2616.2	2566.6	2535.4	2501.3	2474.4	2458.8
5416.7	22.5°	4695.0	3966.1	3018.9	2708.4	2590.7	2522.6	2465.9	2426.2	2385.1	2358.1
5725.8	25°	4917.6	4081.0	3017.5	2678.6	2541.0	2454.5	2382.2	2331.2	2274.5	2246.1
6044.9	27.5°	5131.7	4184.5	2982.0	2626.1	2470.1	2373.7	2287.2	2226.2	2170.9	2144.0
6366.8	30°	5352.9	4271.0	2926.7	2549.5	2386.5	2280.1	2185.1	2132.7	2083.0	2057.5
6707.1	32.5°	5572.7	4350.4	2848.7	2454.5	2290.0	2188.0	2094.4	2046.2	2016.4	2016.4
7072.9	35°	5805.2	4405.7	2745.2	2343.9	2188.0	2090.1	2016.4	1988.0	1985.2	1968.2
7460.0	37.5°	6050.6	4441.1	2619.0	2230.5	2087.3	1995.1	1972.4	1938.4	1910.0	1873.2
7885.4	40°	6308.6	4476.6	2467.3	2112.8	1980.9	1929.9	1920.0	1874.6	1793.8	1703.0
8367.5	42.5°	6622.0	4500.7	2309.9	1995.1	1868.9	1851.9	1866.1	1788.1	1659.0	1591.0
8948.9	45°	6985.0	4540.4	2165.3	1878.8	1754.0	1754.0	1813.6	1711.5	1605.2	1562.6
9612.5	47.5°	7455.8	4632.6	2030.6	1751.2	1647.7	1676.1	1697.3	1619.3	1559.8	1507.3
10420.8	50°	8136.4	4853.8	1891.6	1622.2	1566.9	1623.6	1593.8	1548.4	1479.0	1436.4
11705.5	52.5°	8981.5	4984.2	1768.2	1505.9	1497.4	1554.1	1511.6	1469.0	1416.6	1359.8
12679.6	55°	9557.2	5008.3	1664.7	1420.8	1450.6	1444.9	1429.3	1391.0	1362.7	1287.5
13641.0	57.5°	10201.0	5056.5	1579.6	1369.8	1420.8	1358.4	1352.8	1320.1	1283.3	1232.2
14813.7	60°	10971.0	5131.7	1505.9	1349.9	1395.3	1301.7	1273.4	1260.6	1223.7	1198.2
16224.6	62.5°	11810.4	5199.8	1430.7	1352.8	1365.5	1246.4	1203.9	1199.6	1176.9	1168.4
17549.0	65°	12383.3	5014.0	1337.2	1349.9	1318.7	1189.7	1135.8	1134.4	1116.0	1113.1
18123.3	67.5°	*12183.3*	*4425.5*	*1211.0*	*1310.2*	*1270.5*	*1133.0*	*1073.4*	*1067.7*	*1043.6*	*1045.1*
17523.5	70°	11182.2	3586.1	1036.5	1212.4	1211.0	1081.9	1008.2	989.8	957.1	962.8
15236.3	72.5°	9304.8	2657.3	802.6	1049.3	1116.0	1035.1	933.0	903.3	862.1	867.8
11247.5	75°	6719.8	1806.5	584.2	798.3	971.3	979.8	859.3	808.3	758.6	767.1
6260.4	77.5°	3438.6	1023.8	429.7	550.2	762.9	890.5	792.7	724.6	713.2	792.7
1805.1	80°	1121.6	513.3	297.8	385.7	500.5	728.8	694.8	616.8	614.0	632.4
378.6	82.5°	334.6	217.0	191.4	253.8	276.5	558.7	599.8	466.5	401.3	422.6
126.2	85°	114.9	104.9	109.2	126.2	131.9	327.6	419.7	309.1	292.1	321.9
28.4	87.5°	26.9	36.9	31.2	28.4	28.4	79.4	163.1	129.0	178.7	119.1
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°
3223.1
2548.1
2315.6
2346.8
2426.2
2494.2
2532.5
2526.9
2464.5
2359.5
2246.1
2142.6
2056.1
2017.8
1963.9
1867.5
1690.2
1592.4
1569.7
1505.9
1432.2
1348.5
1289.0
1215.2
1205.3
1168.4
1111.7
1045.1
968.5
866.4
770.0
781.3
543.1
436.7
317.6
114.9
0.0

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