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: P951144

Luminaire Tested: **GALN-SB5B-850-U-T2R**

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:	P951144
	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-SB5B-850-U-T2R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	27713 lumens
Efficiency:	N/A
Efficacy:	151.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3
Input Watts (W):	182.7
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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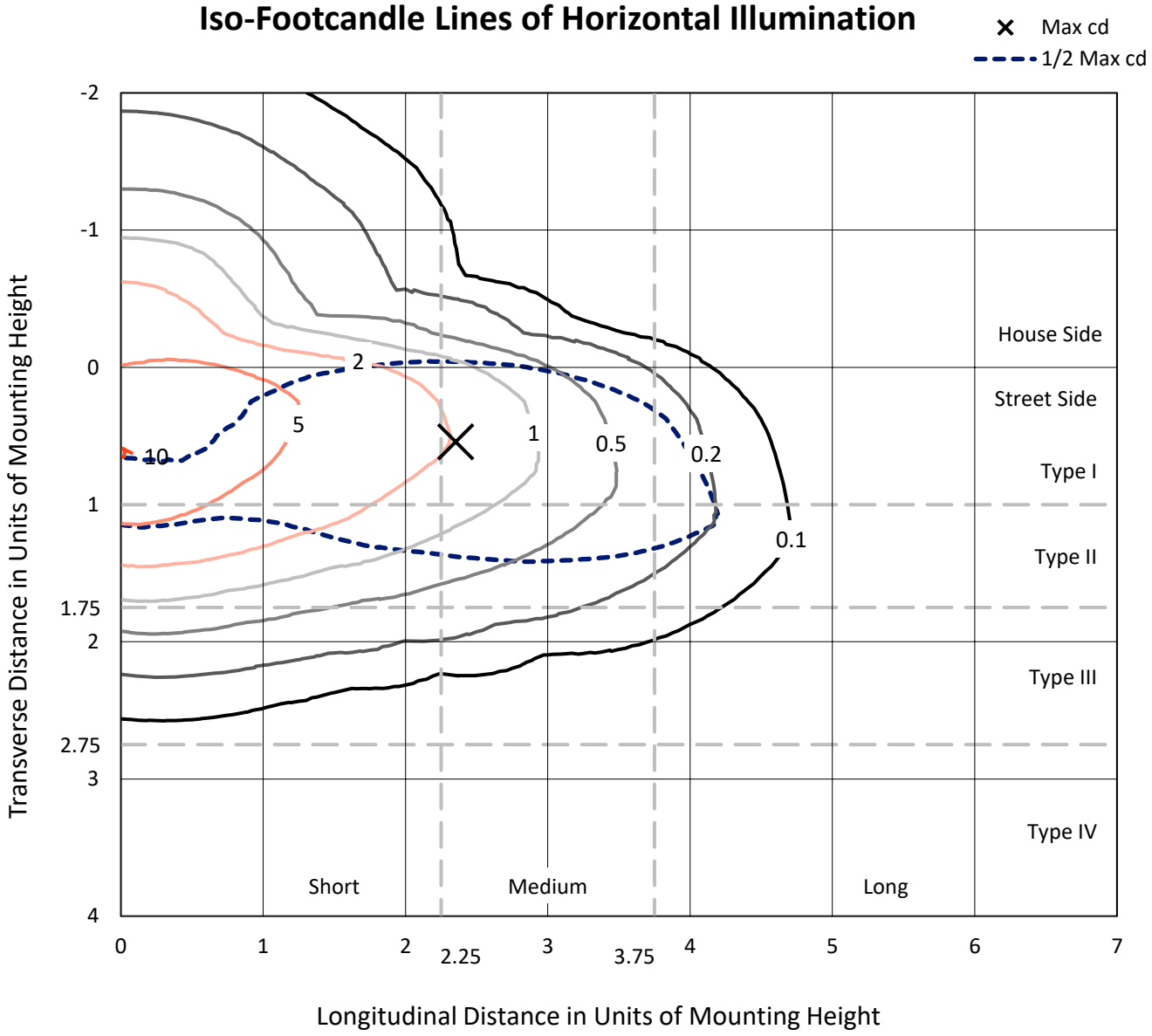
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
Type II - Medium - N/A

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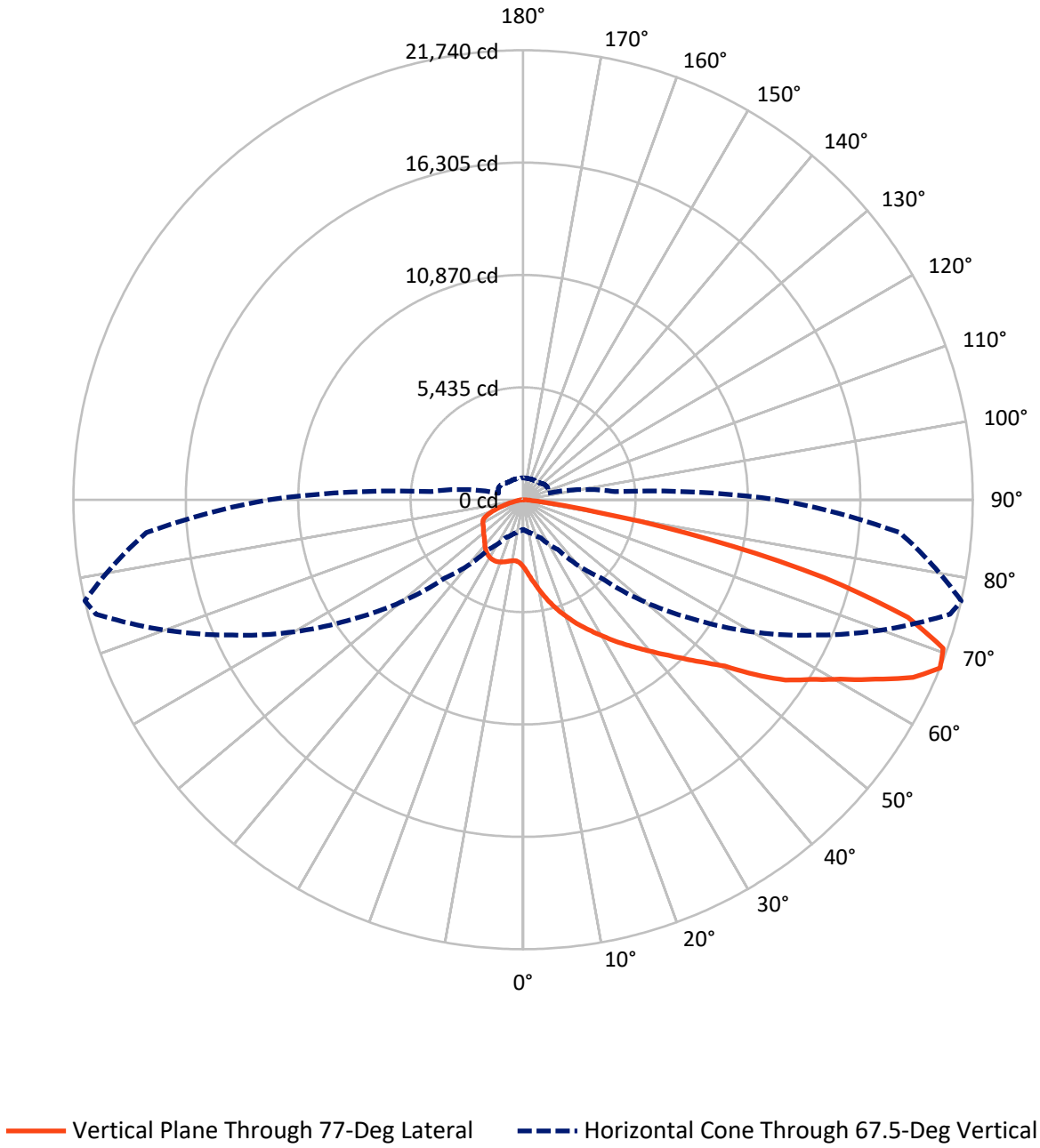
Luminous Intensity Polar Plot



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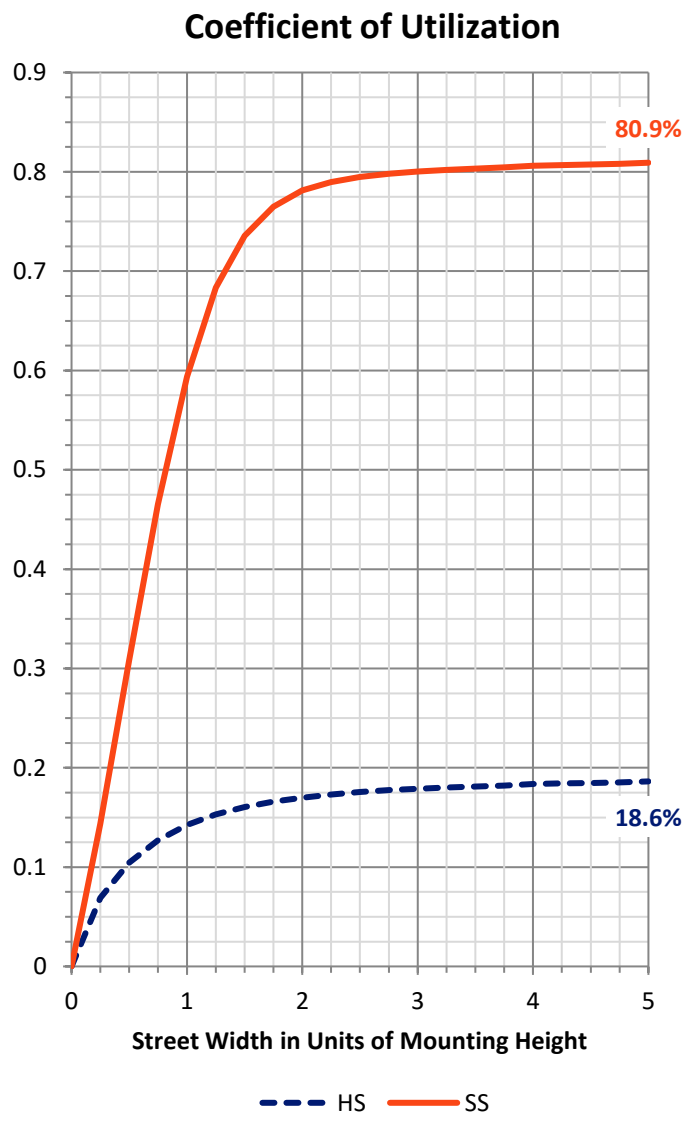
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5242.2	0.0	5242.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22470.8	0.0	22470.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	27713.0	0.0	27713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	1.3
10°-20°	1252.1	4.5
20°-30°	2364.1	8.5
30°-40°	3808.6	13.7
40°-50°	5209.4	18.8
50°-60°	5876.3	21.2
60°-70°	5484.8	19.8
70°-80°	3006.6	10.8
80°-90°	362.7	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°	27713.0	100.0
0°-180°	27713.0	100.0



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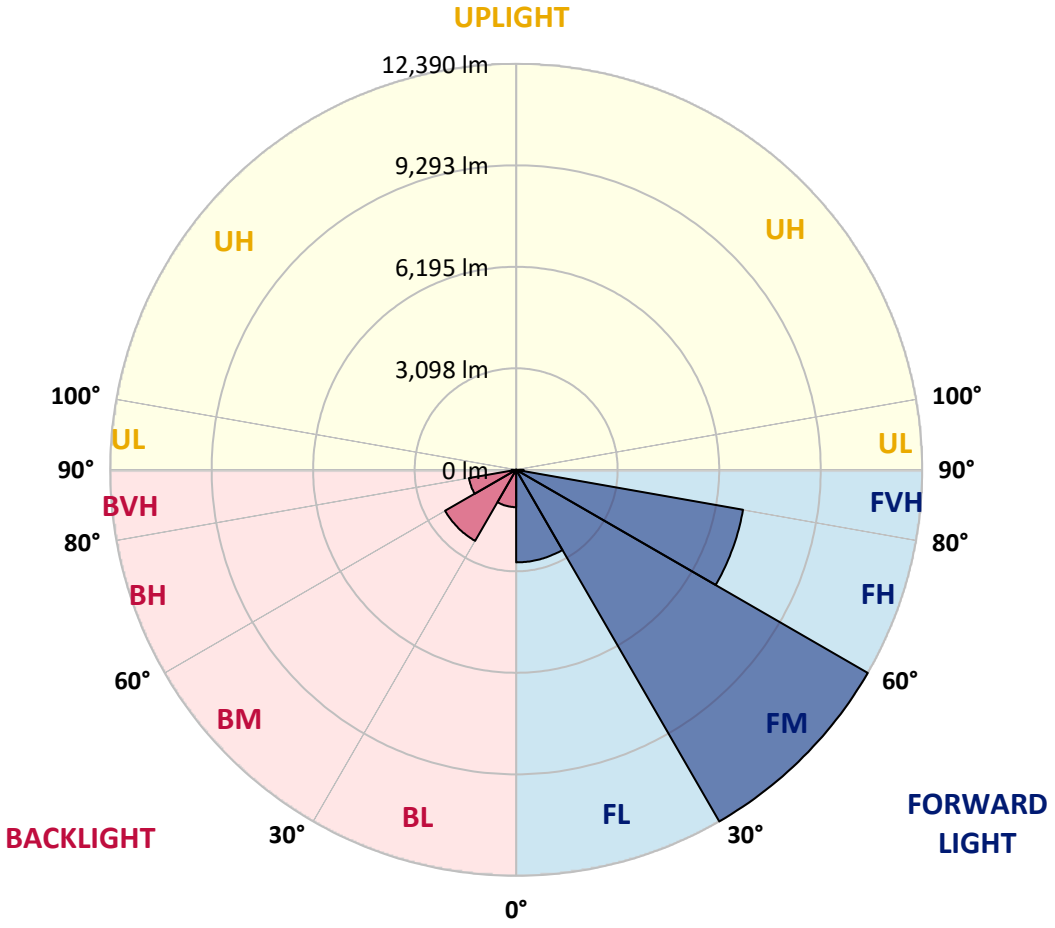
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2825.0	10.2			
FM	(30°-60°)	12390.2	44.7			
FH	(60°-80°)	7028.8	25.4			G3/7500
FVH	(80°-90°)	226.8	0.8			G3/500
BL	(0°-30°)	1139.8	4.1	B3/2500		
BM	(30°-60°)	2504.1	9.0	B3/5000		
BH	(60°-80°)	1462.5	5.3	B3/2500		G3/2500
BVH	(80°-90°)	135.9	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°	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	*3251.6*
2.5°	4071.3	4099.9	4064.1	4064.1	3944.0	3881.0	3760.9	3669.3	3504.8	*3476.2*
5°	4812.3	4848.1	4798.0	4776.5	4634.9	4504.7	4303.0	4104.2	3810.9	*3780.9*
7.5°	5385.9	5431.7	5387.4	5364.5	5238.6	5092.7	4856.7	4579.1	4165.7	*4107.1*
10°	5853.7	5860.9	5846.6	5855.2	5756.5	5636.3	5394.5	5071.2	4554.8	*4474.7*
12.5°	6118.4	6151.3	6179.9	6231.4	6214.2	6139.8	5922.4	5536.2	4966.8	*4863.8*
15°	6242.8	6300.1	6364.4	6483.2	6579.0	6597.6	6431.7	6035.4	5385.9	*5261.5*
17.5°	6287.2	6341.5	6443.1	6614.8	6820.8	6959.5	6885.1	6520.4	5800.8	*5657.7*
20°	6511.8	6527.5	6589.0	6752.1	6975.3	7205.6	7261.4	6986.7	6211.4	*6049.7*
22.5°	6992.4	6961.0	6978.1	7052.5	7212.7	7435.9	7563.2	7398.7	6633.4	*6447.4*
25°	7786.4	7694.8	7603.3	7517.4	7599.0	7724.9	7869.3	7810.7	7075.4	*6839.4*
27.5°	8789.2	8677.6	8475.9	8194.1	8095.4	8139.7	8204.1	8192.6	7484.5	*7245.6*
30°	9776.2	9646.1	9405.7	8998.0	8737.7	8620.4	8571.7	8538.8	7929.4	*7674.8*
32.5°	10564.5	10461.5	10225.4	9769.1	9391.4	9191.2	9029.5	8912.2	8394.4	*8139.7*
35°	11254.0	11158.1	10887.8	10389.9	9979.4	9766.2	9554.5	9304.2	8877.9	*8620.4*
37.5°	11883.4	11787.6	11417.1	10899.2	10485.8	10338.4	10149.6	9724.7	9362.8	*9119.6*
40°	12281.1	12259.6	11913.5	11326.9	10897.8	10824.8	10761.9	10212.6	9900.7	*9674.7*
42.5°	12382.7	12429.9	12155.2	11673.1	11264.0	11205.3	11352.7	10764.7	10504.4	*10288.4*
45°	12138.1	12274.0	12093.7	11766.1	11524.4	11492.9	11876.3	11368.4	11172.4	*10975.0*
47.5°	11518.6	11748.9	11674.6	11628.8	11594.4	11730.4	12336.9	12009.3	11929.2	*11757.5*
50°	10268.3	10704.7	10834.8	11123.8	11455.7	11914.9	12756.0	12708.8	12813.3	*12640.2*
52.5°	8106.8	8707.6	9463.0	10186.8	11029.4	11853.4	13216.7	13713.1	14153.7	*14059.3*
55°	6692.0	6962.4	7543.2	8870.7	10202.5	11594.4	13424.1	14524.2	15484.1	*15399.7*
57.5°	5604.8	5846.6	6204.2	7312.9	8952.3	11006.5	13552.8	15019.1	16395.3	*16386.7*
60°	4438.9	4695.0	5061.2	5846.6	7491.7	9990.8	13524.2	15582.8	17558.3	*17629.9*
62.5°	3122.8	3404.7	3810.9	4543.4	5999.6	8674.7	12940.6	15990.5	18927.3	*19121.9*
65°	2052.8	2238.8	2544.9	3177.2	4470.4	6982.4	11826.2	16043.4	20392.2	*20721.2*
67.5°	*1439.1*	*1510.6*	*1690.9*	*2034.2*	*2946.9*	*5354.5*	*10050.9*	*15495.5*	*21369.3*	*21739.8*
70°	1123.0	1158.7	1250.3	1387.6	1851.1	3600.6	7702.0	14070.7	21160.4	*21546.7*
72.5°	969.9	1004.2	1038.6	1055.7	1241.7	2223.0	5217.1	11764.7	19193.4	*19455.2*
75°	879.8	888.4	917.0	911.2	947.0	1442.0	3011.3	8571.7	15143.6	*15053.5*
77.5°	739.6	751.0	798.2	791.1	841.2	985.6	1563.6	5531.9	9817.7	*9205.5*
80°	626.6	632.3	683.8	675.2	731.0	713.8	798.2	2819.6	4164.3	*3527.7*
82.5°	217.4	268.9	522.1	537.9	557.9	432.0	460.6	1150.1	1271.7	*974.2*
85°	105.9	113.0	266.1	377.7	376.2	217.4	224.6	410.6	400.5	*314.7*
87.5°	17.2	21.5	31.5	147.3	117.3	57.2	77.2	80.1	83.0	*71.5*
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°
3251.6	0°	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6
3367.5	2.5°	3287.4	3215.8	3065.6	2926.9	2818.1	2713.7	2655.1	2605.0	2576.4	2570.7
3524.8	5°	3376.1	3228.7	2955.5	2725.2	2575.0	2463.4	2404.7	2367.5	2348.9	2337.5
3736.5	7.5°	3503.4	3287.4	2898.3	2636.5	2479.1	2399.0	2369.0	2363.2	2361.8	2363.2
3992.6	10°	3679.3	3383.2	2892.5	2615.0	2483.4	2439.1	2437.6	2439.1	2444.8	2446.2
4271.6	12.5°	3869.6	3481.9	2915.4	2633.6	2537.8	2513.4	2509.2	2507.7	2512.0	2514.9
4553.4	15°	4077.0	3612.1	2954.0	2673.7	2597.8	2572.1	2567.8	2559.2	2557.8	2556.4
4849.5	17.5°	4290.2	3740.8	2997.0	2716.6	2636.5	2600.7	2585.0	2564.9	2549.2	2544.9
5155.6	20°	4506.2	3868.2	3027.0	2738.0	2639.3	2589.3	2557.8	2523.5	2496.3	2480.5
5464.6	22.5°	4736.5	4001.2	3045.6	2732.3	2613.6	2544.9	2487.7	2447.6	2406.2	2379.0
5776.5	25°	4961.1	4117.1	3044.2	2702.3	2563.5	2476.2	2403.3	2351.8	2294.6	2266.0
6098.4	27.5°	5177.1	4221.5	3008.4	2649.3	2492.0	2394.7	2307.4	2245.9	2190.1	2163.0
6423.1	30°	5400.3	4308.8	2952.6	2572.1	2407.6	2300.3	2204.4	2151.5	2101.4	2075.7
6766.4	32.5°	5622.0	4388.9	2873.9	2476.2	2310.3	2207.3	2112.9	2064.3	2034.2	2034.2
7135.5	35°	5856.6	4444.7	2769.5	2364.7	2207.3	2108.6	2034.2	2005.6	2002.7	1985.6
7526.0	37.5°	6104.1	4480.4	2642.2	2250.2	2105.7	2012.8	1989.9	1955.5	1926.9	1889.7
7955.2	40°	6364.4	4516.2	2489.1	2131.5	1998.5	1947.0	1936.9	1891.2	1809.6	1718.1
8441.6	42.5°	6680.6	4540.5	2330.3	2012.8	1885.4	1868.3	1882.6	1803.9	1673.7	1605.1
9028.1	45°	7046.8	4580.6	2184.4	1895.5	1769.6	1769.6	1829.6	1726.7	1619.4	1576.4
9697.6	47.5°	7521.7	4673.5	2048.5	1766.7	1662.3	1690.9	1712.3	1633.7	1573.6	1520.7
10513.0	50°	8208.4	4896.7	1908.3	1636.5	1580.7	1638.0	1607.9	1562.1	1492.0	1449.1
11809.0	52.5°	9061.0	5028.3	1783.9	1519.2	1510.6	1567.9	1524.9	1482.0	1429.1	1371.9
12791.8	55°	9641.8	5052.6	1679.4	1433.4	1463.4	1457.7	1442.0	1403.4	1374.7	1298.9
13761.7	57.5°	10291.2	5101.3	1593.6	1381.9	1433.4	1370.4	1364.7	1331.8	1294.6	1243.1
14944.8	60°	11068.0	5177.1	1519.2	1361.9	1407.6	1313.2	1284.6	1271.7	1234.5	1208.8
16368.1	62.5°	11914.9	5245.8	1443.4	1364.7	1377.6	1257.4	1214.5	1210.2	1187.3	1178.8
17704.2	65°	12492.8	5058.4	1349.0	1361.9	1330.4	1200.2	1145.9	1144.4	1125.8	1123.0
18283.6	67.5°	*12291.1*	*4464.7*	*1221.7*	*1321.8*	*1281.8*	*1143.0*	*1082.9*	*1077.2*	*1052.9*	*1054.3*
17678.5	70°	11281.2	3617.8	1045.7	1223.1	1221.7	1091.5	1017.1	998.5	965.6	971.3
15371.1	72.5°	9387.1	2680.8	809.7	1058.6	1125.8	1044.3	941.3	911.2	869.8	875.5
11347.0	75°	6779.3	1822.5	589.4	805.4	979.9	988.5	866.9	815.4	765.3	773.9
6315.8	77.5°	3469.0	1032.8	433.5	555.0	769.6	898.4	799.7	731.0	719.6	799.7
1821.1	80°	1131.5	517.9	300.4	389.1	505.0	735.3	701.0	622.3	619.4	638.0
382.0	82.5°	337.6	218.9	193.1	256.1	279.0	563.6	605.1	470.6	404.8	426.3
127.3	85°	115.9	105.9	110.2	127.3	133.0	330.5	423.4	311.9	294.7	324.7
28.6	87.5°	27.2	37.2	31.5	28.6	28.6	80.1	164.5	130.2	180.2	120.2
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°
3251.6
2570.7
2336.1
2367.5
2447.6
2516.3
2554.9
2549.2
2486.3
2380.4
2266.0
2161.5
2074.3
2035.6
1981.3
1884.0
1705.2
1606.5
1583.6
1519.2
1444.8
1360.4
1300.4
1226.0
1216.0
1178.8
1121.5
1054.3
977.1
874.1
776.8
788.2
547.9
440.6
320.4
115.9
0.0

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