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: P955449

Luminaire Tested: **GALN-SB8B-927-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:	P955449
	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-SB8B-927-U-T2R
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	28230 lumens
Efficiency:	N/A
Efficacy:	96.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3
Input Watts (W):	292.8
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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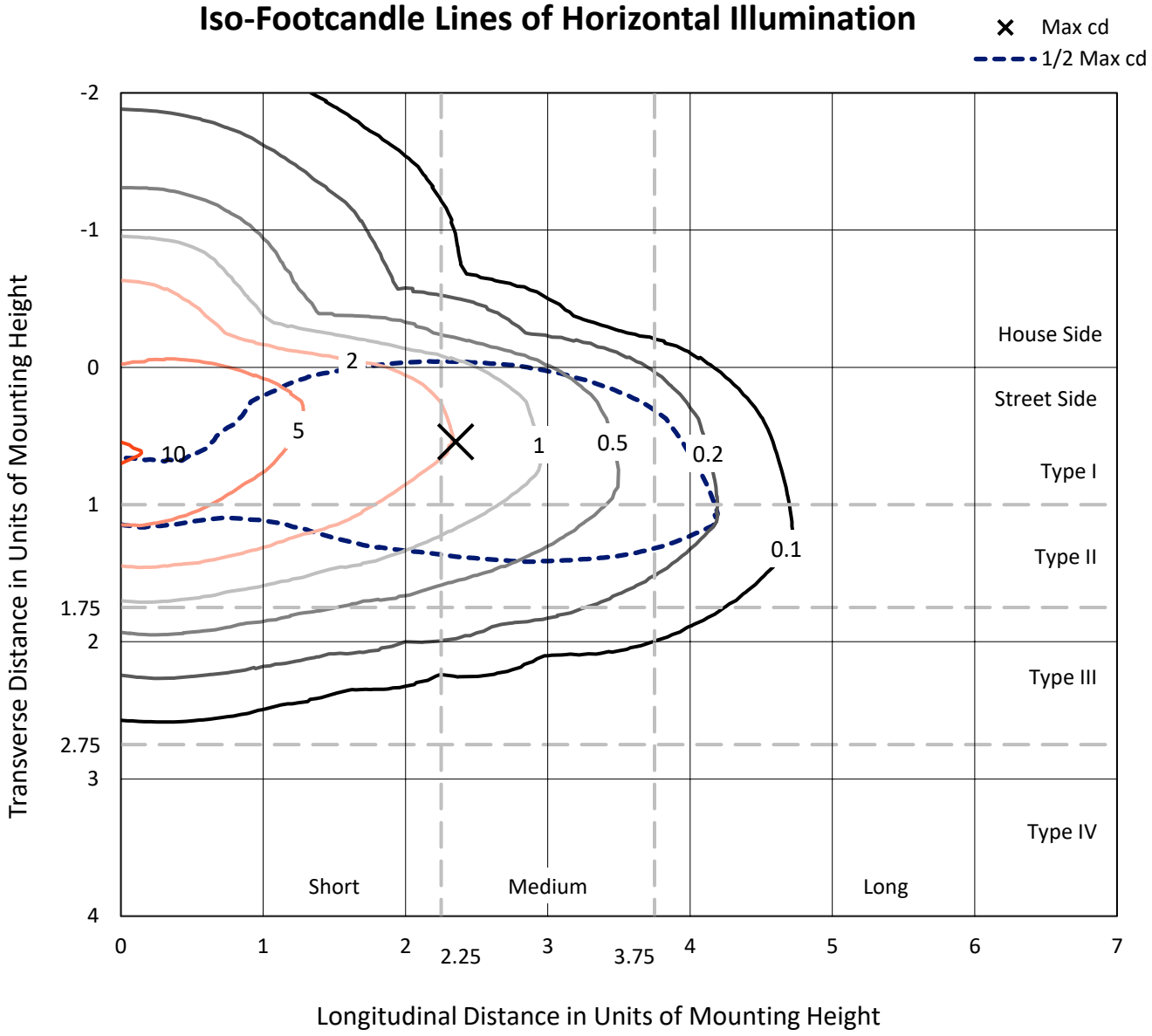
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Medium - N/A

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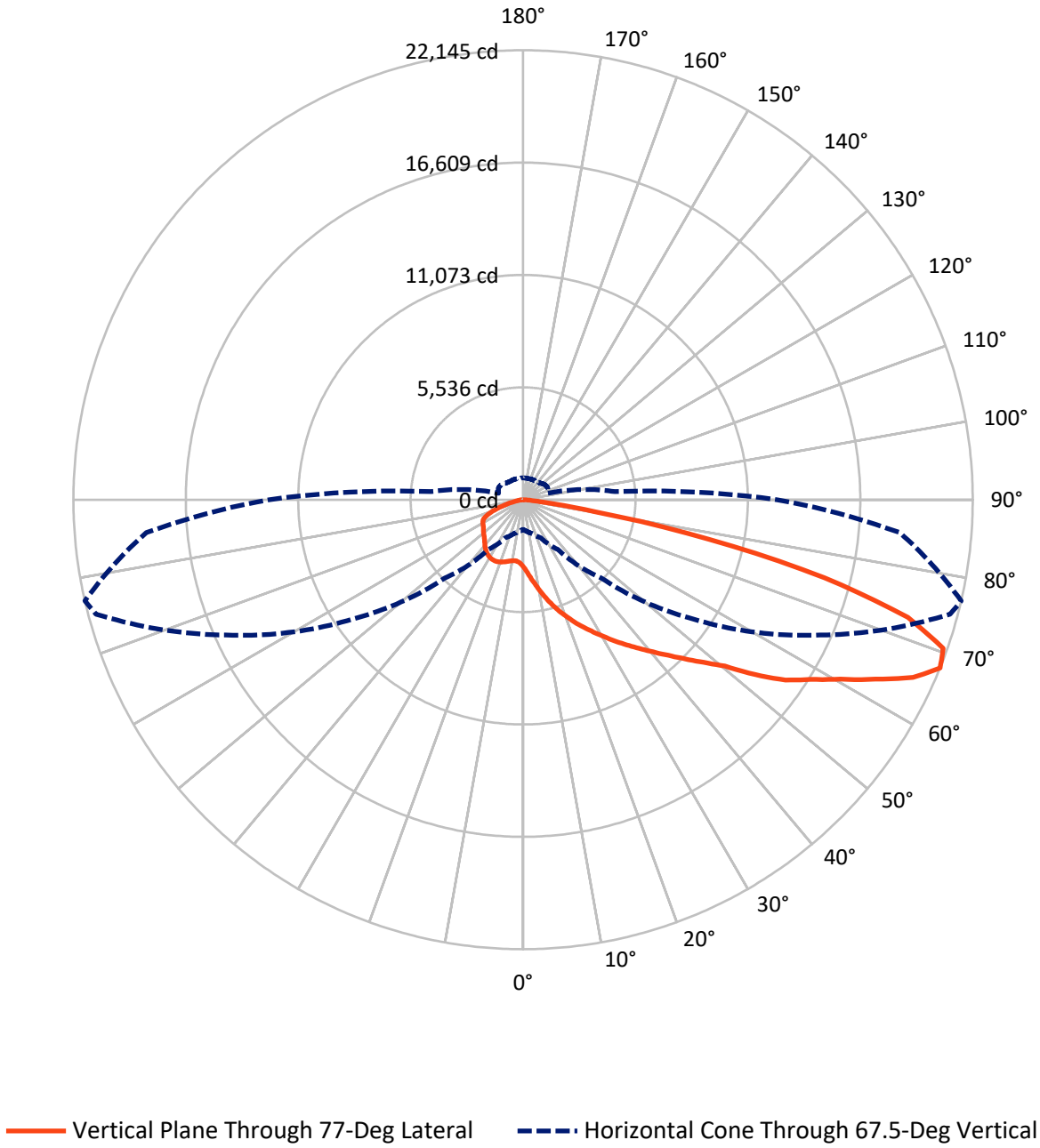
Luminous Intensity Polar Plot



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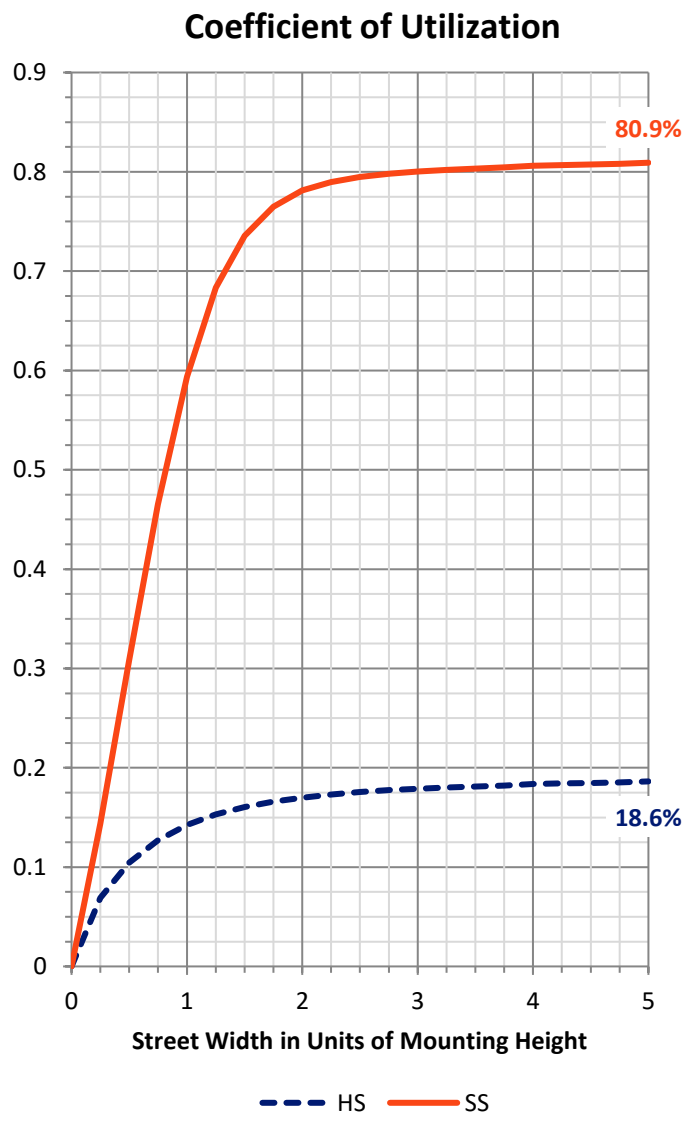
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5340.0	0.0	5340.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22890.0	0.0	22890.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	28230.0	0.0	28230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	1.3
10°-20°	1275.5	4.5
20°-30°	2408.2	8.5
30°-40°	3879.6	13.7
40°-50°	5306.6	18.8
50°-60°	5985.9	21.2
60°-70°	5587.1	19.8
70°-80°	3062.7	10.8
80°-90°	369.4	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°	28230.0	100.0
0°-180°	28230.0	100.0



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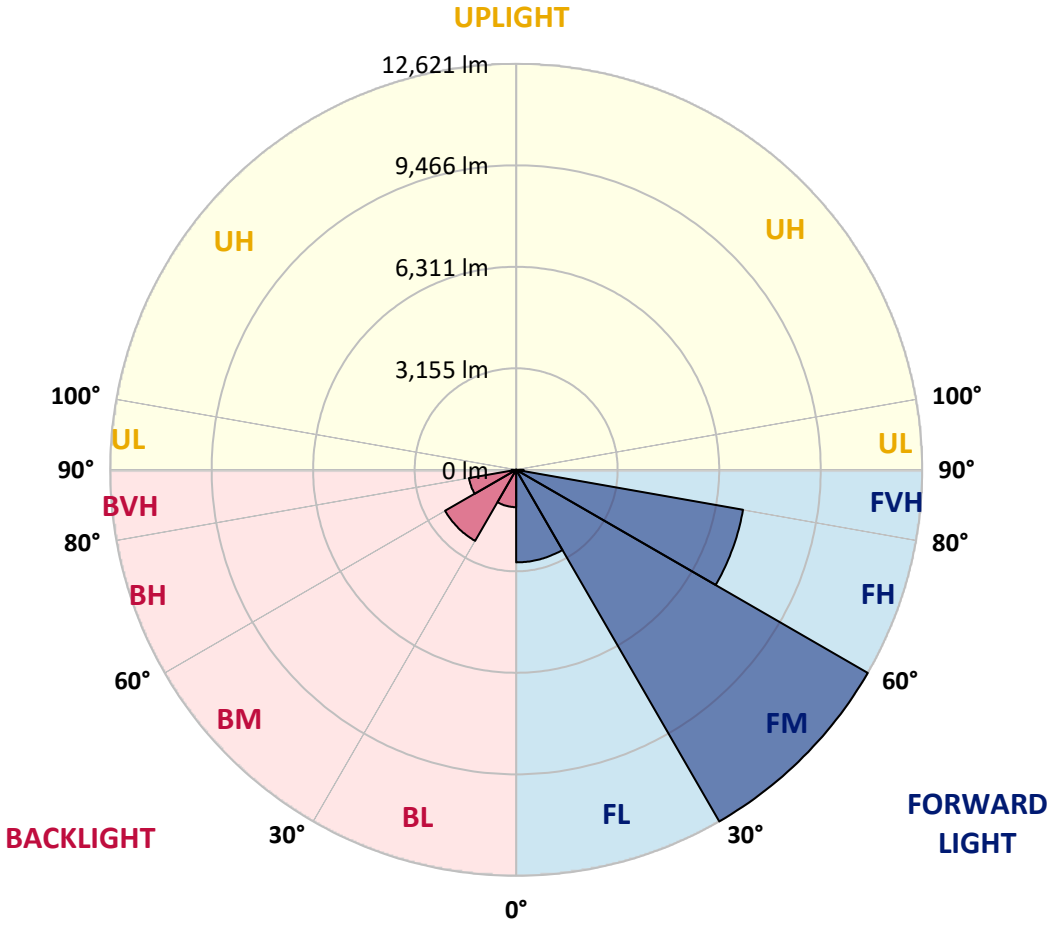
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2877.7	10.2			
FM	(30°-60°)	12621.3	44.7			
FH	(60°-80°)	7160.0	25.4			G3/7500
FVH	(80°-90°)	231.0	0.8			G3/500
BL	(0°-30°)	1161.0	4.1	B3/2500		
BM	(30°-60°)	2550.8	9.0	B3/5000		
BH	(60°-80°)	1489.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	138.4	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°	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	*3312.3*
2.5°	4147.2	4176.4	4140.0	4140.0	4017.5	3953.4	3831.0	3737.8	3570.2	*3541.0*
5°	4902.1	4938.5	4887.5	4865.7	4721.4	4588.8	4383.3	4180.8	3882.0	*3851.4*
7.5°	5486.4	5533.1	5487.9	5464.6	5336.3	5187.7	4947.3	4664.6	4243.4	*4183.7*
10°	5962.9	5970.2	5955.6	5964.4	5863.8	5741.4	5495.2	5165.8	4639.8	*4558.2*
12.5°	6232.5	6266.0	6295.2	6347.6	6330.2	6254.4	6032.9	5639.4	5059.5	*4954.5*
15°	6359.3	6417.6	6483.2	6604.1	6701.7	6720.7	6551.7	6148.0	5486.4	*5359.6*
17.5°	6404.5	6459.8	6563.3	6738.2	6948.0	7089.4	7013.6	6642.0	5909.0	*5763.3*
20°	6633.3	6649.3	6711.9	6878.1	7105.4	7340.0	7396.8	7117.1	6327.2	*6162.6*
22.5°	7122.9	7090.8	7108.3	7184.1	7347.3	7574.6	7704.3	7536.7	6757.1	*6567.7*
25°	7931.6	7838.4	7745.1	7657.7	7740.7	7869.0	8016.2	7956.4	7207.4	*6967.0*
27.5°	8953.1	8839.5	8634.0	8346.9	8246.4	8291.6	8357.1	8345.5	7624.2	*7380.8*
30°	9958.6	9826.0	9581.2	9165.9	8900.7	8781.2	8731.6	8698.1	8077.4	*7818.0*
32.5°	10761.6	10656.6	10416.2	9951.3	9566.6	9362.6	9198.0	9078.5	8551.0	*8291.6*
35°	11463.9	11366.3	11090.9	10583.8	10165.6	9948.4	9732.8	9477.7	9043.5	*8781.2*
37.5°	12105.1	12007.5	11630.1	11102.5	10681.4	10531.3	10339.0	9906.2	9537.5	*9289.8*
40°	12510.2	12488.4	12135.7	11538.3	11101.1	11026.8	10962.6	10403.1	10085.4	*9855.2*
42.5°	12613.7	12661.8	12382.0	11890.9	11474.1	11414.4	11564.5	10965.6	10700.4	*10480.3*
45°	12364.5	12502.9	12319.3	11985.6	11739.3	11707.3	12097.8	11580.5	11380.9	*11179.8*
47.5°	11733.5	11968.1	11892.4	11845.7	11810.8	11949.2	12567.0	12233.3	12151.7	*11976.9*
50°	10459.9	10904.4	11037.0	11331.3	11669.4	12137.2	12994.0	12945.9	13052.3	*12876.0*
52.5°	8258.1	8870.1	9639.5	10376.8	11235.1	12074.5	13463.2	13968.9	14417.7	*14321.5*
55°	6816.9	7092.3	7683.9	9036.2	10392.9	11810.8	13674.5	14795.1	15772.9	*15686.9*
57.5°	5709.4	5955.6	6320.0	7449.3	9119.3	11211.8	13805.7	15299.3	16701.2	*16692.4*
60°	4521.7	4782.6	5155.6	5955.6	7631.4	10177.2	13776.5	15873.5	17885.9	*17958.8*
62.5°	3181.1	3468.2	3882.0	4628.1	6111.6	8836.6	13182.0	16288.8	19280.4	*19478.6*
65°	2091.1	2280.5	2592.4	3236.5	4553.8	7112.7	12046.8	16342.7	20772.6	*21107.8*
67.5°	*1466.0*	*1538.8*	*1722.4*	*2072.2*	*3001.9*	*5454.4*	*10238.4*	*15784.6*	*21767.9*	*22145.3*
70°	1143.9	1180.3	1273.6	1413.5	1885.6	3667.8	7845.7	14333.2	21555.2	*21948.6*
72.5°	988.0	1023.0	1057.9	1075.4	1264.9	2264.5	5314.5	11984.2	19551.5	*19818.2*
75°	896.2	904.9	934.1	928.2	964.7	1468.9	3067.4	8731.6	15426.1	*15334.3*
77.5°	753.4	765.0	813.1	805.8	856.8	1004.0	1592.7	5635.1	10000.9	*9377.2*
80°	638.3	644.1	696.6	687.8	744.6	727.2	813.1	2872.2	4242.0	*3593.5*
82.5°	221.5	274.0	531.9	547.9	568.3	440.1	469.2	1171.6	1295.5	*992.4*
85°	107.8	115.1	271.0	384.7	383.2	221.5	228.8	418.2	408.0	*320.6*
87.5°	17.5	21.9	32.1	150.1	119.5	58.3	78.7	81.6	84.5	*72.9*
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°
3312.3	0°	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3	3312.3
3430.3	2.5°	3348.7	3275.8	3122.8	2981.5	2870.7	2764.3	2704.6	2653.6	2624.4	2618.6
3590.6	5°	3439.0	3288.9	3010.6	2776.0	2623.0	2509.3	2449.6	2411.7	2392.8	2381.1
3806.3	7.5°	3568.7	3348.7	2952.3	2685.7	2525.4	2443.8	2413.2	2407.3	2405.9	2407.3
4067.1	10°	3748.0	3446.3	2946.5	2663.8	2529.7	2484.6	2483.1	2484.6	2490.4	2491.8
4351.3	12.5°	3941.8	3546.9	2969.8	2682.7	2585.1	2560.3	2556.0	2554.5	2558.9	2561.8
4638.3	15°	4153.1	3679.5	3009.2	2723.5	2646.3	2620.1	2615.7	2607.0	2605.5	2604.0
4940.0	17.5°	4370.2	3810.6	3052.9	2767.3	2685.7	2649.2	2633.2	2612.8	2596.8	2592.4
5251.8	20°	4590.2	3940.3	3083.5	2789.1	2688.6	2637.6	2605.5	2570.5	2542.8	2526.8
5566.6	22.5°	4824.8	4075.8	3102.4	2783.3	2662.3	2592.4	2534.1	2493.3	2451.0	2423.4
5884.2	25°	5053.6	4193.9	3101.0	2752.7	2611.3	2522.4	2448.1	2395.7	2337.4	2308.2
6212.1	27.5°	5273.7	4300.2	3064.5	2698.8	2538.5	2439.4	2350.5	2287.8	2231.0	2203.3
6542.9	30°	5501.0	4389.1	3007.7	2620.1	2452.5	2343.2	2245.6	2191.7	2140.7	2114.4
6892.6	32.5°	5726.9	4470.7	2927.6	2522.4	2353.4	2248.5	2152.3	2102.8	2072.2	2072.2
7268.6	35°	5965.8	4527.6	2821.2	2408.8	2248.5	2147.9	2072.2	2043.0	2040.1	2022.6
7666.4	37.5°	6217.9	4564.0	2691.5	2292.2	2145.0	2050.3	2027.0	1992.0	1962.9	1925.0
8103.6	40°	6483.2	4600.4	2535.6	2171.3	2035.7	1983.3	1973.1	1926.4	1843.4	1750.1
8599.0	42.5°	6805.2	4625.2	2373.8	2050.3	1920.6	1903.1	1917.7	1837.6	1704.9	1635.0
9196.5	45°	7178.3	4666.0	2225.2	1930.8	1802.6	1802.6	1863.8	1758.9	1649.6	1605.9
9878.5	47.5°	7662.1	4760.7	2086.7	1799.7	1693.3	1722.4	1744.3	1664.1	1602.9	1549.0
10709.1	50°	8361.5	4988.1	1943.9	1667.1	1610.2	1668.5	1637.9	1591.3	1519.9	1476.2
12029.3	52.5°	9230.0	5122.1	1817.2	1547.6	1538.8	1597.1	1553.4	1509.7	1455.8	1397.5
13030.4	55°	9821.6	5146.9	1710.8	1460.1	1490.7	1484.9	1468.9	1429.5	1400.4	1323.2
14018.4	57.5°	10483.2	5196.4	1623.3	1407.7	1460.1	1396.0	1390.2	1356.7	1318.8	1266.3
15223.6	60°	11274.5	5273.7	1547.6	1387.3	1433.9	1337.7	1308.6	1295.5	1257.6	1231.3
16673.5	62.5°	12137.2	5343.6	1470.3	1390.2	1403.3	1280.9	1237.2	1232.8	1209.5	1200.7
18034.5	65°	12725.9	5152.7	1374.2	1387.3	1355.2	1222.6	1167.2	1165.8	1146.8	1143.9
18624.7	67.5°	*12520.4*	*4548.0*	*1244.5*	*1346.5*	*1305.7*	*1164.3*	*1103.1*	*1097.3*	*1072.5*	*1074.0*
18008.3	70°	11491.6	3685.3	1065.2	1245.9	1244.5	1111.9	1036.1	1017.1	983.6	989.5
15657.8	72.5°	9562.3	2730.8	824.8	1078.3	1146.8	1063.8	958.8	928.2	886.0	891.8
11558.7	75°	6905.8	1856.5	600.4	820.4	998.2	1006.9	883.1	830.6	779.6	788.4
6433.6	77.5°	3533.8	1052.1	441.5	565.4	784.0	915.1	814.6	744.6	733.0	814.6
1855.0	80°	1152.7	527.5	306.0	396.4	514.4	749.0	714.0	633.9	631.0	649.9
389.1	82.5°	343.9	223.0	196.7	260.8	284.2	574.1	616.4	479.4	412.4	434.3
129.7	85°	118.0	107.8	112.2	129.7	135.5	336.6	431.3	317.7	300.2	330.8
29.1	87.5°	27.7	37.9	32.1	29.1	29.1	81.6	167.6	132.6	183.6	122.4
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°
3312.3
2618.6
2379.6
2411.7
2493.3
2563.2
2602.6
2596.8
2532.6
2424.8
2308.2
2201.9
2113.0
2073.6
2018.2
1919.2
1737.0
1636.5
1613.1
1547.6
1471.8
1385.8
1324.6
1248.8
1238.6
1200.7
1142.5
1074.0
995.3
890.4
791.3
802.9
558.1
448.8
326.4
118.0
0.0

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