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: P950706

Luminaire Tested: **GALN-SB5A-827-U-T3R-HSS**

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:	P950706
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5A-827-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	16404 lumens
Efficiency:	N/A
Efficacy:	115.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B2 - U0 - G3
Input Watts (W):	141.7
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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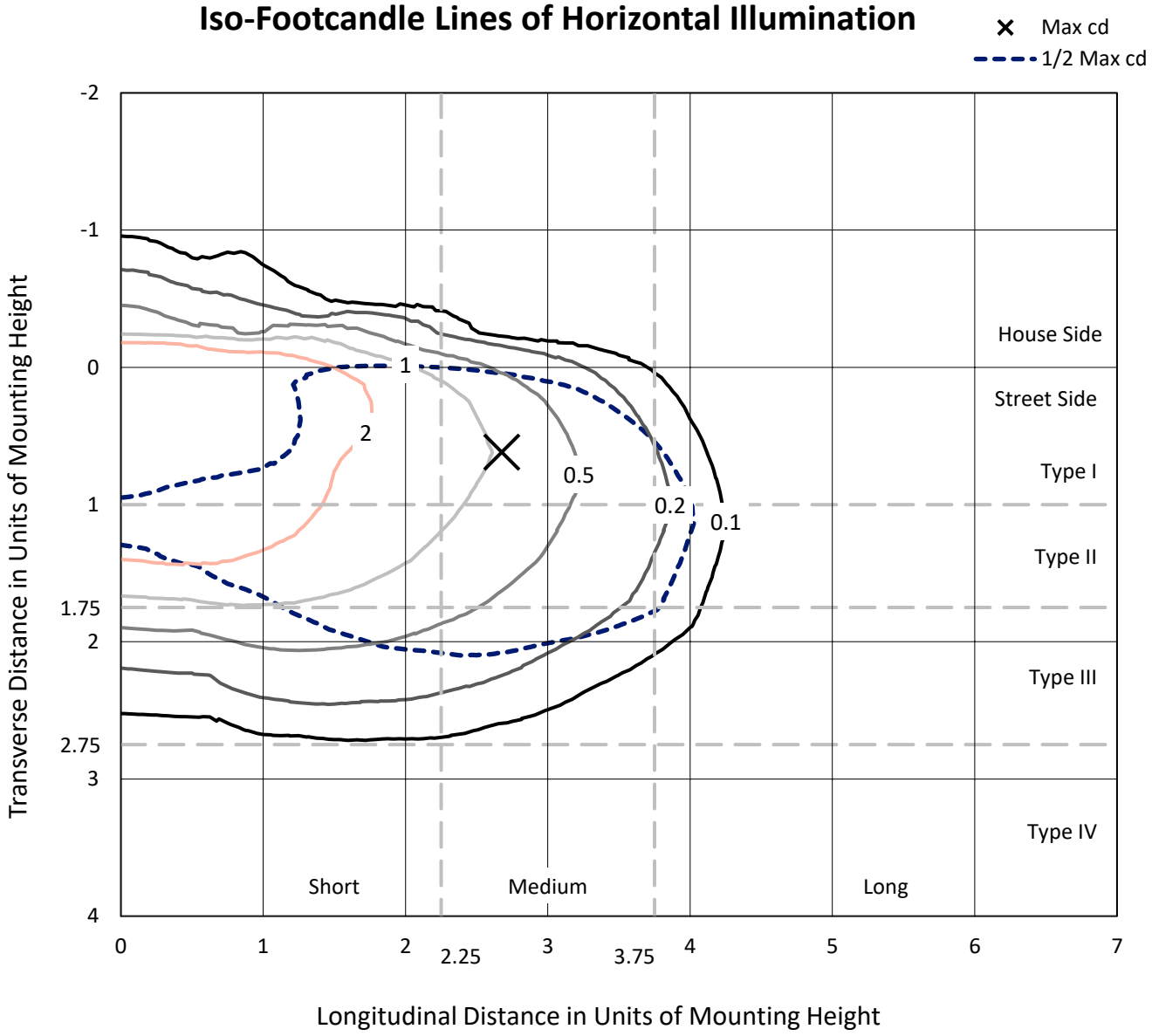
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - N/A

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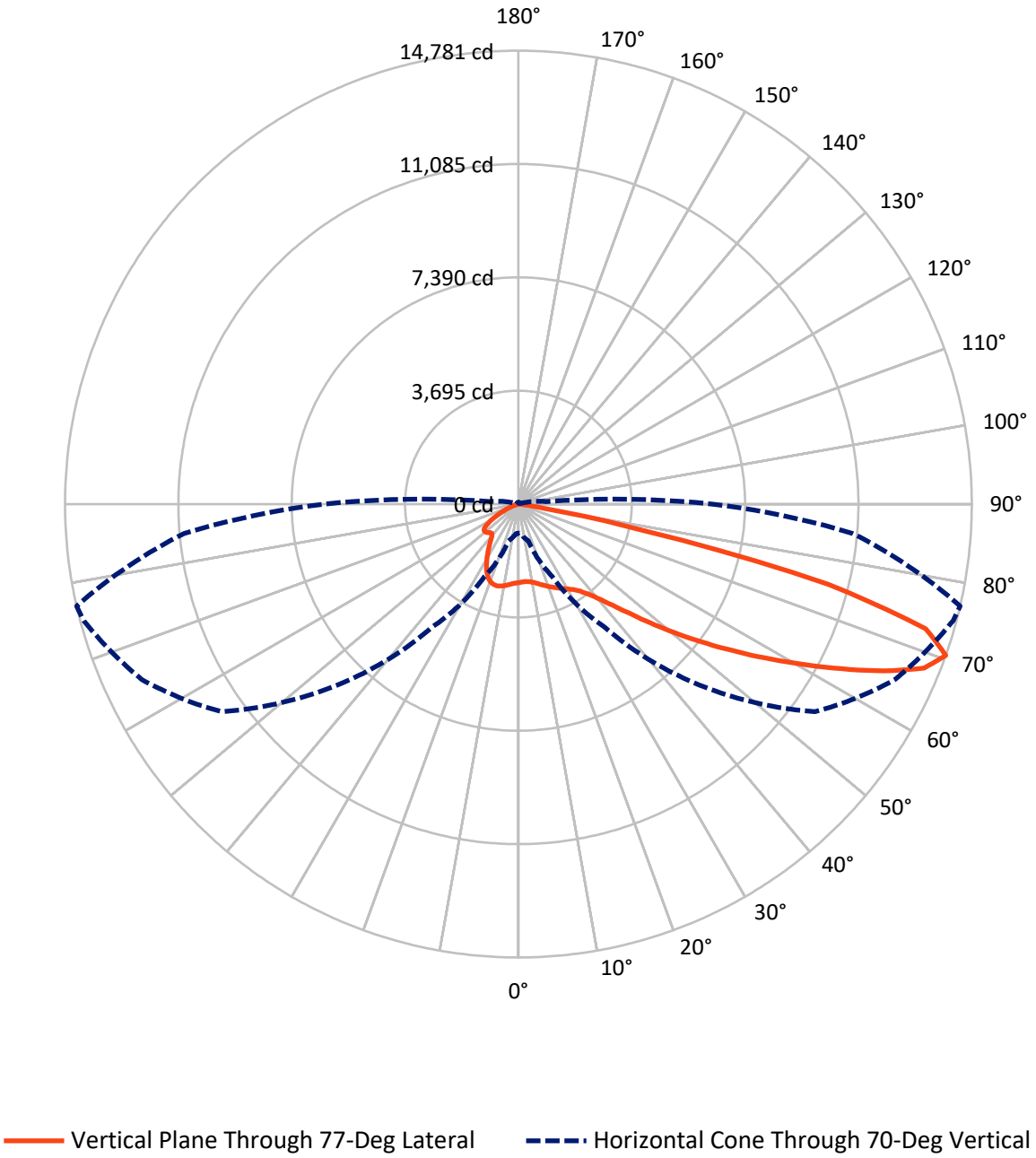
Luminous Intensity Polar Plot



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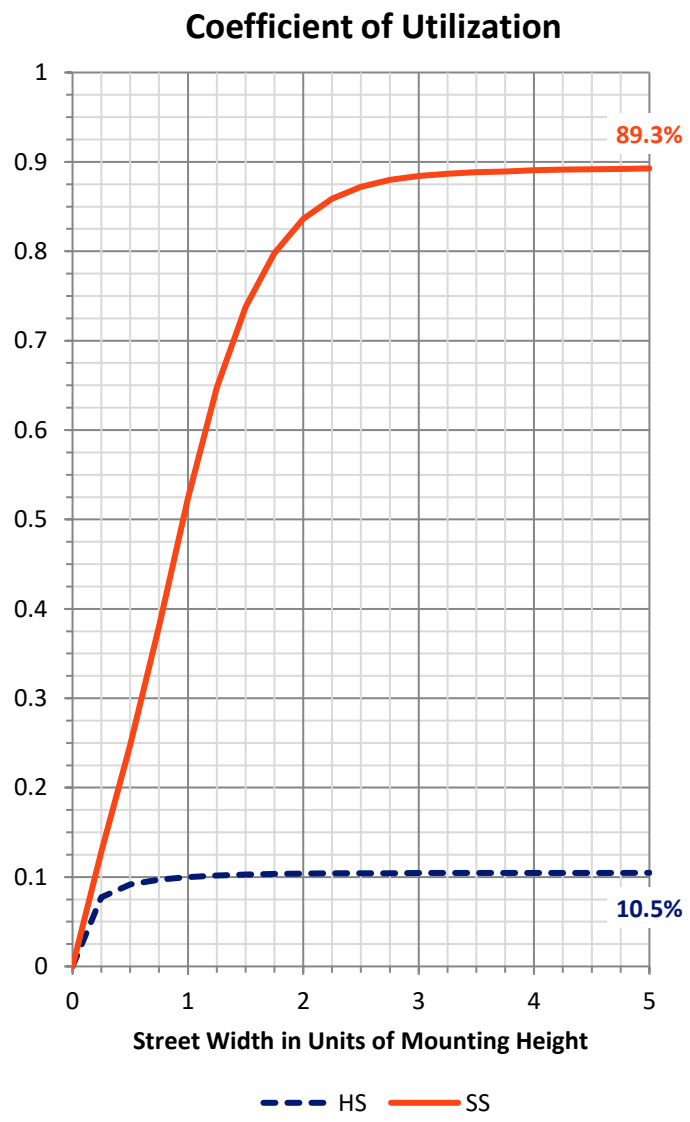
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.2	0.0	1729.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14674.8	0.0	14674.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	16404.0	0.0	16404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.3
10°-20°	523.5	3.2
20°-30°	809.7	4.9
30°-40°	1469.2	9.0
40°-50°	2773.4	16.9
50°-60°	4007.3	24.4
60°-70°	4265.6	26.0
70°-80°	2260.5	13.8
80°-90°	74.2	0.5
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°	16404.0	100.0
0°-180°	16404.0	100.0



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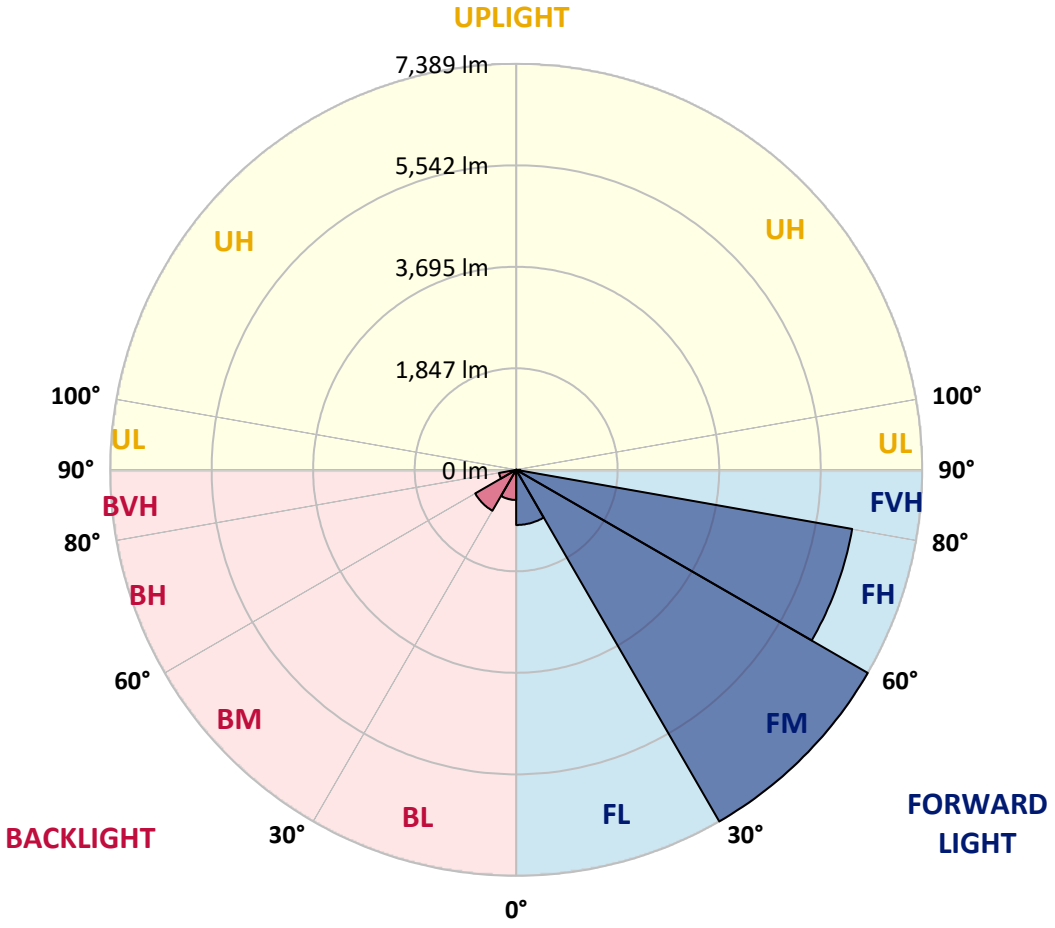
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1004.3	6.1			
FM	(30°-60°)	7389.1	45.0			
FH	(60°-80°)	6209.1	37.9			G3/7500
FVH	(80°-90°)	72.2	0.4			G1/100
BL	(0°-30°)	549.4	3.3	B2/1000		
BM	(30°-60°)	860.8	5.2	B1/1000		
BH	(60°-80°)	317.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G3
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	*2558.7*
2.5°	2402.3	2424.1	2421.0	2435.5	2440.6	2461.4	2482.1	2510.0	2541.1	*2540.1*
5°	2266.6	2288.4	2293.5	2313.2	2338.1	2370.2	2412.7	2468.6	2526.6	*2535.9*
7.5°	2106.0	2128.8	2142.3	2181.7	2227.2	2293.5	2362.9	2444.8	2541.1	*2554.6*
10°	1945.5	1966.2	1983.8	2039.7	2112.2	2210.7	2323.6	2441.7	2571.2	*2590.8*
12.5°	1846.0	1865.7	1885.4	1934.1	2024.2	2144.4	2297.7	2456.2	2620.9	*2648.9*
15°	1810.8	1828.4	1843.9	1887.5	1971.4	2108.1	2292.5	2486.2	2684.1	*2721.4*
17.5°	1816.0	1825.3	1835.7	1868.8	1950.6	2091.5	2301.8	2538.0	2758.7	*2791.8*
20°	1846.0	1851.2	1852.2	1875.0	1947.5	2089.5	2320.5	2587.7	2829.1	*2873.6*
22.5°	1884.3	1886.4	1884.3	1899.9	1967.2	2105.0	2345.3	2647.8	2907.8	*2949.3*
25°	2063.6	2024.2	1974.5	1944.4	2000.4	2135.0	2382.6	2728.6	2993.8	*3034.2*
27.5°	2619.8	2506.9	2328.8	2128.8	2068.7	2178.5	2434.4	2810.5	3080.8	*3117.1*
30°	3523.2	3375.0	3072.5	2621.9	2288.4	2269.7	2501.8	2892.3	3173.0	*3212.4*
32.5°	4428.6	4392.3	4043.2	3419.6	2782.5	2472.7	2613.6	3003.1	3295.3	*3326.3*
35°	5344.3	5270.8	4984.9	4368.5	3543.9	2886.1	2800.1	3148.2	3455.8	*3491.1*
37.5°	6045.6	6001.1	5824.0	5316.4	4447.2	3524.2	3119.2	3373.0	3688.9	*3728.3*
40°	6665.1	6644.4	6584.3	6249.7	5457.2	4359.2	3615.4	3721.0	4012.1	*4058.7*
42.5°	7152.0	7200.7	7234.9	7141.6	6498.3	5312.2	4282.5	4210.0	4462.8	*4510.4*
45°	7650.3	7666.9	7804.6	7939.3	7532.2	6308.8	5034.6	4782.9	5023.2	*5082.2*
47.5°	7970.4	8036.7	8279.1	8516.3	8401.3	7297.0	5842.6	5459.3	5672.7	*5783.6*
50°	7994.2	8119.6	8453.1	8866.5	9034.3	8237.7	6721.1	6230.0	6456.9	*6579.1*
52.5°	7597.5	7792.2	8309.1	8914.1	9376.1	9034.3	7629.6	7000.8	7291.9	*7451.4*
55°	5825.0	6079.8	7767.3	8655.1	9389.6	9638.2	8514.2	7803.6	8222.1	*8402.4*
57.5°	5075.0	5203.4	6106.8	8205.5	9139.9	9881.7	9314.0	8568.1	9234.2	*9458.0*
60°	4222.4	4391.3	5121.6	7470.0	8801.2	9905.5	10020.5	9554.3	10331.3	*10583.0*
62.5°	2869.5	3052.9	3779.0	6206.2	8338.1	9894.1	10599.6	10569.5	11550.5	*11820.9*
65°	1777.6	1892.6	2371.2	5067.7	7690.7	9906.5	11205.6	11802.3	12837.1	*13111.7*
67.5°	1404.7	1457.5	1707.2	3890.9	6575.0	9626.8	11810.5	12961.5	14048.1	*14265.7*
70°	*943.7*	*975.8*	*1242.1*	*2608.5*	*4891.6*	*8336.1*	*11799.2*	*13543.6*	*14671.8*	*14780.5*
72.5°	497.2	522.1	726.2	1207.9	2954.5	5925.5	9945.9	12847.5	14051.2	*13887.6*
75°	248.6	290.1	489.0	613.3	1261.8	3304.6	6176.2	10129.2	11059.5	*10425.5*
77.5°	188.5	227.9	404.0	404.0	439.2	1112.6	2615.7	5524.6	5095.7	*4243.1*
80°	120.2	155.4	353.2	305.6	183.4	282.8	681.6	1547.7	1082.5	*823.6*
82.5°	70.4	101.5	294.2	202.0	102.6	104.6	192.7	329.4	280.7	*218.6*
85°	28.0	66.3	202.0	79.8	40.4	25.9	58.0	70.4	58.0	*43.5*
87.5°	0.0	15.5	35.2	0.0	3.1	2.1	4.1	5.2	5.2	*4.1*
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°
2558.7	0°	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7	2558.7
2560.8	2.5°	2570.1	2572.2	2578.4	2579.4	2564.9	2546.3	2539.0	2535.9	2523.5	2522.5
2577.4	5°	2601.2	2610.5	2601.2	2574.3	2510.0	2419.9	2351.5	2295.6	2244.8	2229.3
2634.4	7.5°	2663.4	2672.7	2644.7	2539.0	2377.4	2198.2	2036.6	1922.7	1820.1	1781.8
2703.8	10°	2752.4	2764.9	2676.8	2463.4	2177.5	1889.5	1616.0	1423.4	1273.1	1212.0
2798.0	12.5°	2864.3	2869.5	2694.4	2348.4	1917.5	1506.2	1118.8	912.6	779.0	729.3
2912.0	15°	2987.6	2980.3	2696.5	2192.0	1563.2	1064.9	730.3	599.8	545.9	529.4
3025.9	17.5°	3117.1	3087.0	2655.1	1966.2	1174.7	728.3	541.8	510.7	501.4	497.2
3138.8	20°	3244.5	3177.2	2579.4	1670.9	843.2	543.9	492.1	482.7	477.6	475.5
3252.8	22.5°	3360.5	3245.5	2450.0	1328.1	612.2	480.7	465.1	456.8	447.5	443.4
3363.6	25°	3473.4	3284.9	2267.6	1008.0	490.0	449.6	437.2	421.6	409.2	404.0
3482.8	27.5°	3583.3	3309.8	2039.7	745.9	437.2	420.6	397.8	376.0	366.7	364.6
3610.2	30°	3700.3	3318.1	1780.8	556.3	405.0	384.3	351.2	326.3	321.1	322.2
3782.2	32.5°	3843.3	3330.5	1519.7	455.8	378.1	340.8	301.5	275.6	271.4	275.6
4032.8	35°	4014.2	3355.4	1268.0	419.5	354.3	296.3	253.8	232.0	227.9	231.0
4354.0	37.5°	4246.2	3395.8	1032.8	412.3	334.6	259.0	213.4	195.8	195.8	196.8
4747.6	40°	4554.9	3503.5	822.5	407.1	324.2	231.0	180.3	173.0	176.1	178.2
5249.0	42.5°	4931.0	3732.4	680.6	400.9	312.8	218.6	163.7	160.6	165.7	167.8
5849.9	45°	5352.6	4022.5	630.9	390.5	302.5	226.9	156.4	152.3	158.5	159.5
6523.2	47.5°	5788.7	4306.3	624.7	379.1	292.1	239.3	154.4	145.0	152.3	153.3
7242.1	50°	6230.0	4491.8	630.9	361.5	275.6	239.3	155.4	137.8	144.0	147.1
7988.0	52.5°	6674.4	4576.7	626.7	323.2	246.5	224.8	155.4	131.6	137.8	139.8
8793.9	55°	7105.4	4560.1	563.5	266.2	209.3	198.9	151.2	126.4	130.5	131.6
9555.3	57.5°	7446.2	4329.1	446.5	207.2	169.9	165.7	137.8	120.2	123.3	122.2
10253.6	60°	7624.4	3821.5	319.1	159.5	133.6	130.5	121.2	111.9	114.0	108.8
10845.1	62.5°	7626.5	3150.2	213.4	126.4	106.7	103.6	103.6	100.5	98.4	88.1
11302.9	65°	7463.8	2405.4	141.9	100.5	86.0	80.8	87.0	86.0	78.7	64.2
11442.8	67.5°	7095.0	1576.7	107.7	78.7	66.3	63.2	69.4	72.5	67.3	53.9
10933.1	70°	*6336.7*	*917.8*	*89.1*	*61.1*	*49.7*	*46.6*	*55.9*	*62.2*	*55.9*	*43.5*
9345.1	72.5°	5263.5	495.2	72.5	45.6	34.2	31.1	44.5	50.8	44.5	32.1
5995.9	75°	3415.4	265.2	55.9	30.0	17.6	19.7	33.1	37.3	31.1	20.7
1760.0	77.5°	1146.8	117.1	35.2	14.5	8.3	8.3	19.7	22.8	14.5	7.3
320.1	80°	255.9	48.7	14.5	6.2	3.1	3.1	4.1	4.1	2.1	0.0
98.4	82.5°	83.9	19.7	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
24.9	85°	32.1	7.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	12.4	1.0	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°
2558.7
2524.5
2220.0
1766.2
1186.1
713.8
529.4
496.2
473.4
442.3
401.9
362.6
322.2
274.5
230.0
195.8
178.2
167.8
160.6
154.4
148.1
139.8
131.6
122.2
107.7
84.9
62.2
52.8
41.4
31.1
18.6
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