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: P951210

Luminaire Tested: **GALN-SB5B-935-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:	P951210
	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-SB5B-935-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 90 CRI, 3500K, 450mA 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:	16474 lumens
Efficiency:	N/A
Efficacy:	90.2 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):	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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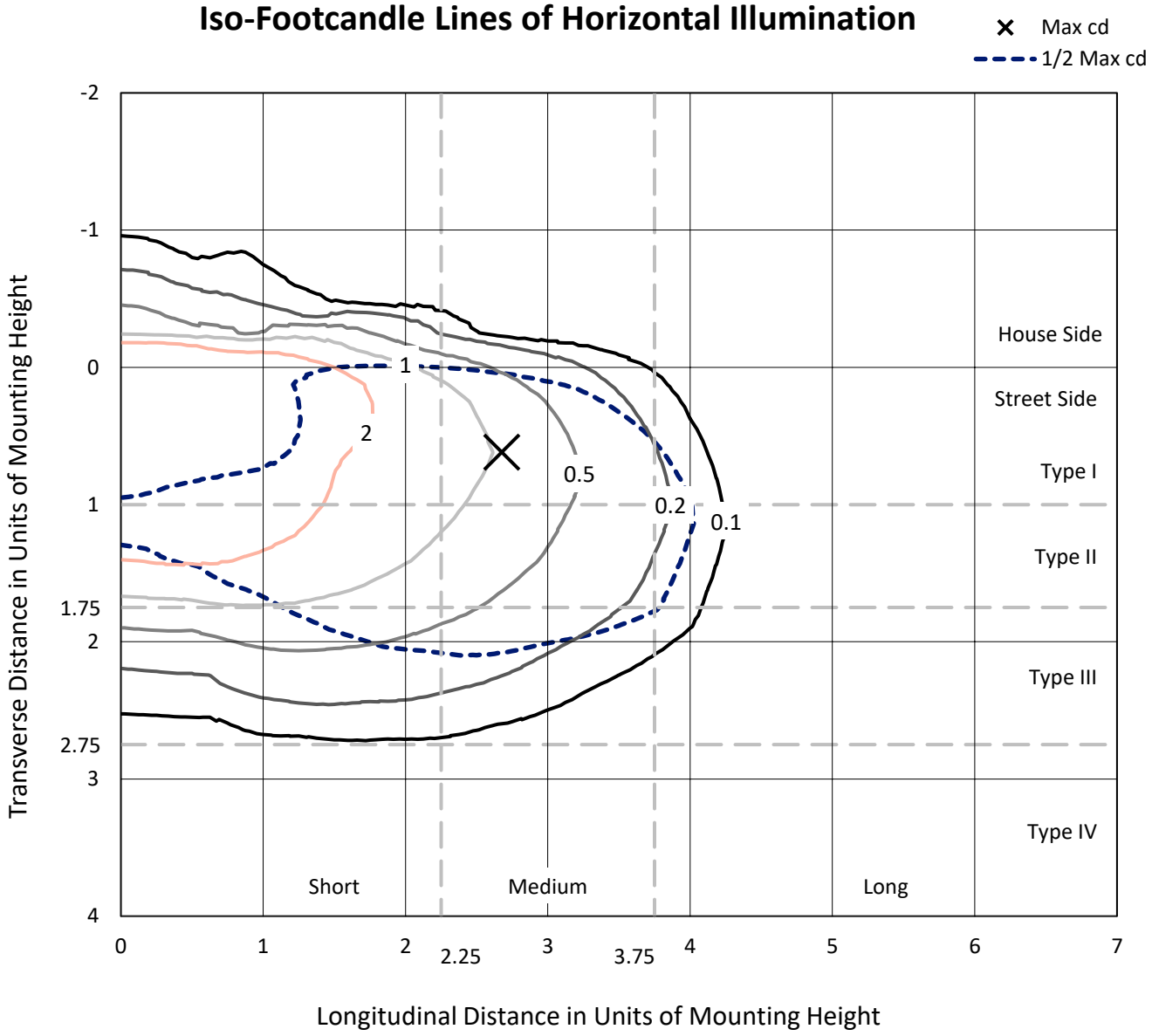
CATALOG NUMBER: GALN-SB5B-935-U-T3R-HSS

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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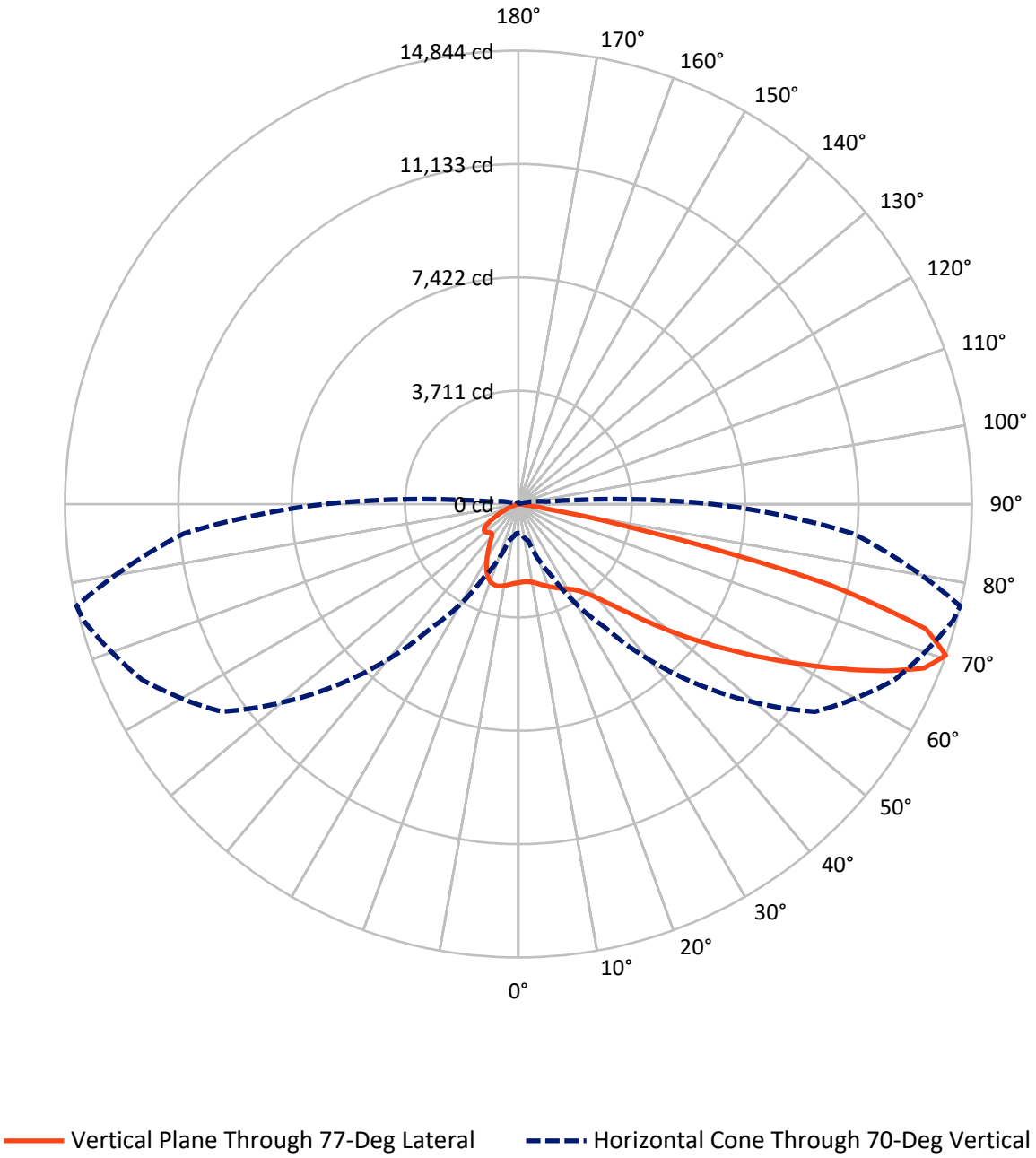
Luminous Intensity Polar Plot



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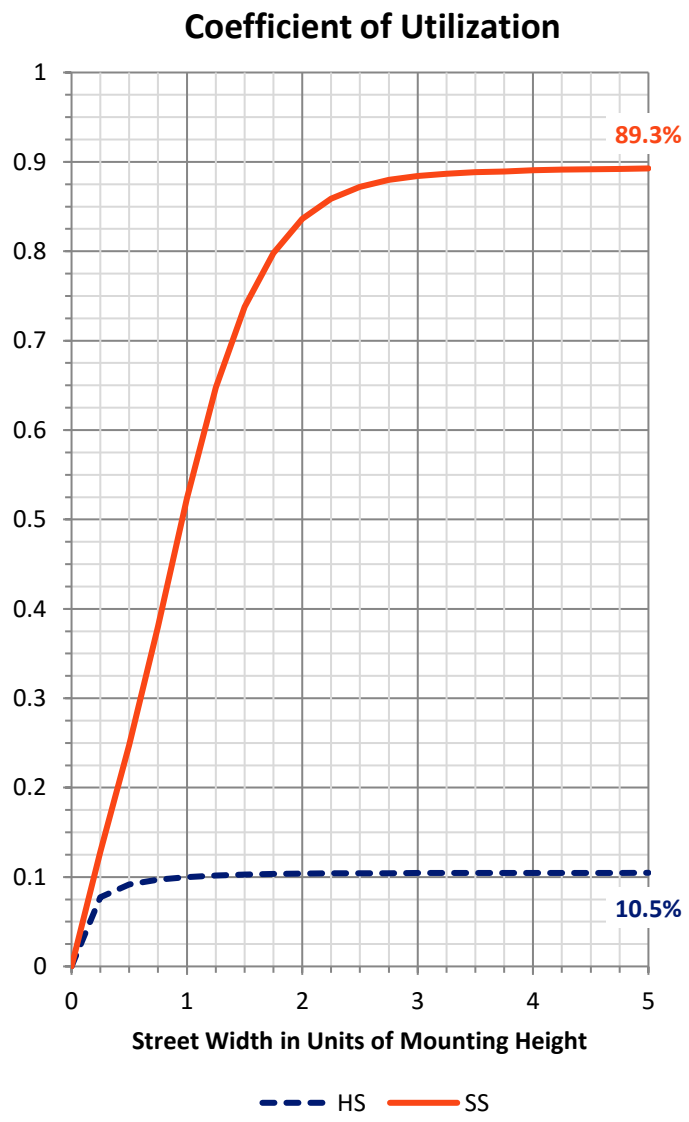
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.6	0.0	1736.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14737.4	0.0	14737.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	16474.0	0.0	16474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.3
10°-20°	525.7	3.2
20°-30°	813.2	4.9
30°-40°	1475.5	9.0
40°-50°	2785.2	16.9
50°-60°	4024.4	24.4
60°-70°	4283.9	26.0
70°-80°	2270.1	13.8
80°-90°	74.5	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°	16474.0	100.0
0°-180°	16474.0	100.0



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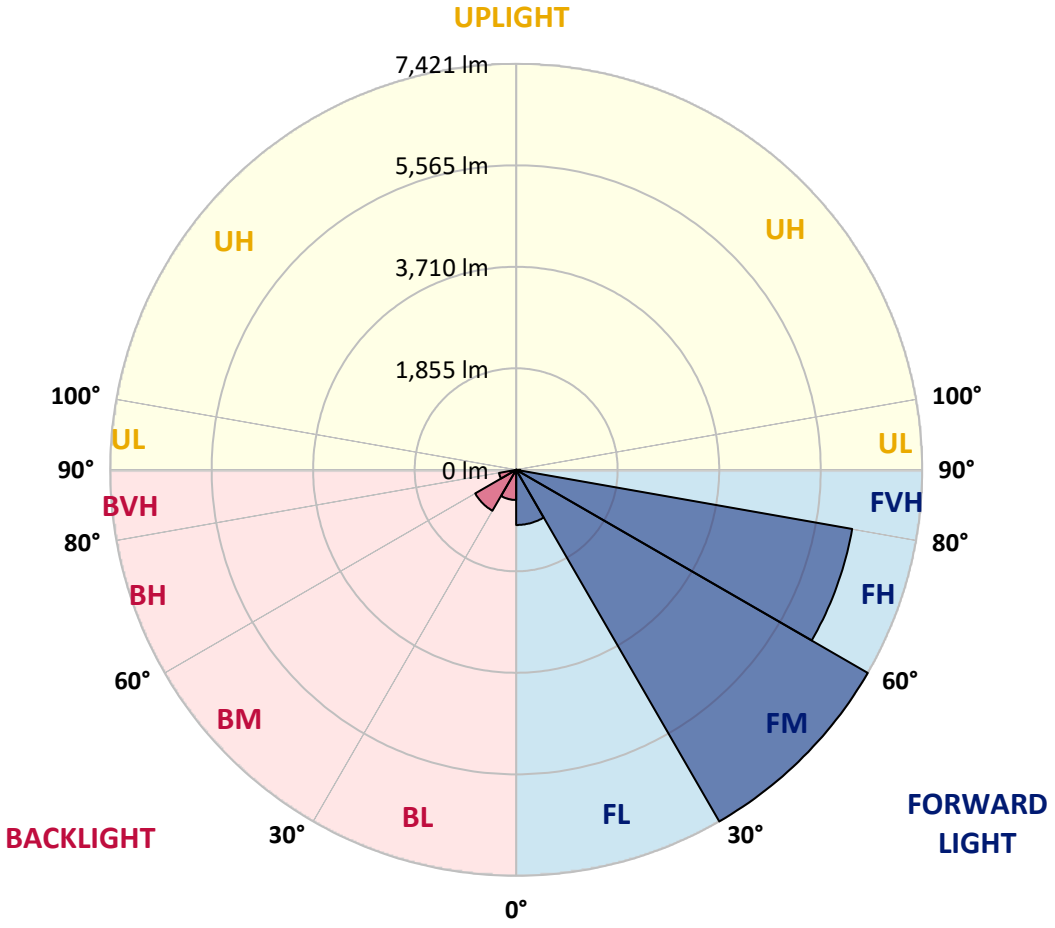
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1008.6	6.1			
FM	(30°-60°)	7420.6	45.0			
FH	(60°-80°)	6235.6	37.9			G3/7500
FVH	(80°-90°)	72.5	0.4			G1/100
BL	(0°-30°)	551.7	3.3	B2/1000		
BM	(30°-60°)	864.5	5.2	B1/1000		
BH	(60°-80°)	318.4	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°	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	*2569.6*
2.5°	2412.6	2434.4	2431.3	2445.8	2451.0	2471.9	2492.7	2520.8	2552.0	*2550.9*
5°	2276.3	2298.1	2303.3	2323.1	2348.1	2380.3	2423.0	2479.1	2537.4	*2546.8*
7.5°	2115.0	2137.9	2151.4	2191.0	2236.7	2303.3	2373.0	2455.2	2552.0	*2565.5*
10°	1953.8	1974.6	1992.3	2048.4	2121.3	2220.1	2333.5	2452.1	2582.1	*2601.9*
12.5°	1853.9	1873.7	1893.4	1942.3	2032.8	2153.5	2307.5	2466.7	2632.1	*2660.2*
15°	1818.5	1836.2	1851.8	1895.5	1979.8	2117.1	2302.3	2496.8	2695.5	*2733.0*
17.5°	1823.7	1833.1	1843.5	1876.8	1959.0	2100.5	2311.6	2548.8	2770.4	*2803.7*
20°	1853.9	1859.1	1860.1	1883.0	1955.8	2098.4	2330.4	2598.8	2841.2	*2885.9*
22.5°	1892.4	1894.5	1892.4	1908.0	1975.6	2114.0	2355.3	2659.1	2920.2	*2961.9*
25°	2072.4	2032.8	1982.9	1952.7	2008.9	2144.1	2392.8	2740.3	3006.6	*3047.2*
27.5°	2631.0	2517.6	2338.7	2137.9	2077.6	2187.8	2444.8	2822.4	3094.0	*3130.4*
30°	3538.2	3389.4	3085.7	2633.1	2298.1	2279.4	2512.4	2904.6	3186.6	*3226.1*
32.5°	4447.5	4411.1	4060.5	3434.2	2794.4	2483.3	2624.8	3016.0	3309.3	*3340.5*
35°	5367.1	5293.3	5006.1	4387.1	3559.0	2898.4	2812.0	3161.6	3470.6	*3506.0*
37.5°	6071.4	6026.7	5848.8	5339.0	4466.2	3539.2	3132.5	3387.4	3704.7	*3744.2*
40°	6693.6	6672.8	6612.4	6276.4	5480.5	4377.8	3630.8	3736.9	4029.2	*4076.1*
42.5°	7182.5	7231.4	7265.8	7172.1	6526.1	5334.9	4300.8	4228.0	4481.8	*4529.7*
45°	7682.9	7699.6	7837.9	7973.2	7564.3	6335.7	5056.1	4803.3	5044.6	*5103.9*
47.5°	8004.4	8071.0	8314.4	8552.7	8437.2	7328.2	5867.5	5482.6	5696.9	*5808.2*
50°	8028.3	8154.2	8489.2	8904.3	9072.8	8272.8	6749.7	6256.6	6484.5	*6607.2*
52.5°	7629.9	7825.5	8344.6	8952.1	9416.1	9072.8	7662.1	7030.6	7323.0	*7483.2*
55°	5849.8	6105.8	7800.5	8692.1	9429.7	9679.3	8550.6	7836.9	8257.2	*8438.2*
57.5°	5096.6	5225.6	6132.8	8240.6	9178.9	9923.8	9353.7	8604.7	9273.6	*9498.3*
60°	4240.4	4410.0	5143.5	7501.9	8838.8	9947.8	10063.2	9595.1	10375.3	*10628.1*
62.5°	2881.7	3065.9	3795.2	6232.7	8373.7	9936.3	10644.8	10614.6	11599.8	*11871.4*
65°	1785.2	1900.7	2381.3	5089.4	7723.5	9948.8	11253.4	11852.6	12891.9	*13167.6*
67.5°	1410.7	1463.8	1714.5	3907.5	6603.1	9667.9	11860.9	13016.8	14108.1	*14326.6*
70°	*947.8*	*980.0*	*1247.4*	*2619.6*	*4912.5*	*8371.6*	*11849.5*	*13601.4*	*14734.4*	*14843.6*
72.5°	499.4	524.3	729.3	1213.0	2967.1	5950.8	9988.3	12902.3	14111.2	*13946.8*
75°	249.7	291.3	491.0	615.9	1267.1	3318.7	6202.5	10172.5	11106.7	*10470.0*
77.5°	189.3	228.9	405.7	405.7	441.1	1117.3	2626.9	5548.1	5117.4	*4261.2*
80°	120.7	156.1	354.8	306.9	184.1	284.0	684.5	1554.3	1087.2	*827.1*
82.5°	70.7	102.0	295.5	202.9	103.0	105.1	193.5	330.8	281.9	*219.5*
85°	28.1	66.6	202.9	80.1	40.6	26.0	58.3	70.7	58.3	*43.7*
87.5°	0.0	15.6	35.4	0.0	3.1	2.1	4.2	5.2	5.2	*4.2*
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°
2569.6	0°	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6	2569.6
2571.7	2.5°	2581.1	2583.2	2589.4	2590.5	2575.9	2557.2	2549.9	2546.8	2534.3	2533.2
2588.4	5°	2612.3	2621.7	2612.3	2585.3	2520.8	2430.2	2361.6	2305.4	2254.4	2238.8
2645.6	7.5°	2674.7	2684.1	2656.0	2549.9	2387.6	2207.6	2045.3	1930.9	1827.9	1789.4
2715.3	10°	2764.2	2776.7	2688.2	2473.9	2186.8	1897.6	1622.9	1429.4	1278.6	1217.2
2810.0	12.5°	2876.5	2881.7	2705.9	2358.5	1925.7	1512.7	1123.6	916.5	782.3	732.4
2924.4	15°	3000.3	2993.1	2708.0	2201.4	1569.9	1069.5	733.4	602.4	548.3	531.6
3038.8	17.5°	3130.4	3100.2	2666.4	1974.6	1179.7	731.4	544.1	512.9	503.5	499.4
3152.2	20°	3258.4	3190.7	2590.5	1678.1	846.8	546.2	494.2	484.8	479.6	477.5
3266.7	22.5°	3374.9	3259.4	2460.4	1333.7	614.8	482.7	467.1	458.8	449.4	445.3
3378.0	25°	3488.3	3298.9	2277.3	1012.3	492.1	451.5	439.0	423.4	410.9	405.7
3497.6	27.5°	3598.5	3323.9	2048.4	749.0	439.0	422.4	399.5	377.6	368.3	366.2
3625.6	30°	3716.1	3332.2	1788.3	558.7	406.8	386.0	352.7	327.7	322.5	323.5
3798.3	32.5°	3859.7	3344.7	1526.2	457.8	379.7	342.3	302.7	276.7	272.6	276.7
4050.1	35°	4031.3	3369.7	1273.4	421.3	355.8	297.5	254.9	233.0	228.9	232.0
4372.6	37.5°	4264.4	3410.2	1037.2	414.1	336.0	260.1	214.3	196.6	196.6	197.7
4767.9	40°	4574.4	3518.4	826.0	408.9	325.6	232.0	181.0	173.7	176.9	178.9
5271.4	42.5°	4952.0	3748.4	683.5	402.6	314.2	219.5	164.4	161.3	166.5	168.5
5874.8	45°	5375.5	4039.7	633.6	392.2	303.8	227.8	157.1	152.9	159.2	160.2
6551.0	47.5°	5813.4	4324.7	627.3	380.8	293.4	240.3	155.0	145.6	152.9	154.0
7273.0	50°	6256.6	4510.9	633.6	363.1	276.7	240.3	156.1	138.4	144.6	147.7
8022.1	52.5°	6702.9	4596.2	629.4	324.6	247.6	225.8	156.1	132.1	138.4	140.4
8831.5	55°	7135.7	4579.6	565.9	267.4	210.1	199.7	151.9	126.9	131.1	132.1
9596.1	57.5°	7478.0	4347.6	448.4	208.1	170.6	166.5	138.4	120.7	123.8	122.8
10297.3	60°	7656.9	3837.8	320.4	160.2	134.2	131.1	121.7	112.4	114.4	109.2
10891.3	62.5°	7659.0	3163.7	214.3	126.9	107.2	104.0	104.0	100.9	98.8	88.4
11351.2	65°	7495.7	2415.7	142.5	100.9	86.3	81.1	87.4	86.3	79.1	64.5
11491.6	67.5°	7125.3	1583.4	108.2	79.1	66.6	63.5	69.7	72.8	67.6	54.1
10979.8	70°	*6363.8*	*921.7*	*89.5*	*61.4*	*49.9*	*46.8*	*56.2*	*62.4*	*56.2*	*43.7*
9384.9	72.5°	5286.0	497.3	72.8	45.8	34.3	31.2	44.7	51.0	44.7	32.3
6021.5	75°	3430.0	266.3	56.2	30.2	17.7	19.8	33.3	37.5	31.2	20.8
1767.5	77.5°	1151.7	117.6	35.4	14.6	8.3	8.3	19.8	22.9	14.6	7.3
321.5	80°	257.0	48.9	14.6	6.2	3.1	3.1	4.2	4.2	2.1	0.0
98.8	82.5°	84.3	19.8	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
25.0	85°	32.3	7.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	12.5	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°
2569.6
2535.3
2229.5
1773.8
1191.2
716.8
531.6
498.3
475.4
444.2
403.7
364.1
323.5
275.7
231.0
196.6
178.9
168.5
161.3
155.0
148.8
140.4
132.1
122.8
108.2
85.3
62.4
53.1
41.6
31.2
18.7
6.2
0.0
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