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: P941509

Luminaire Tested: **GALN-SB5A-827-U-T4FT**

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:	P941509
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19475 lumens
Efficiency:	N/A
Efficacy:	137.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - 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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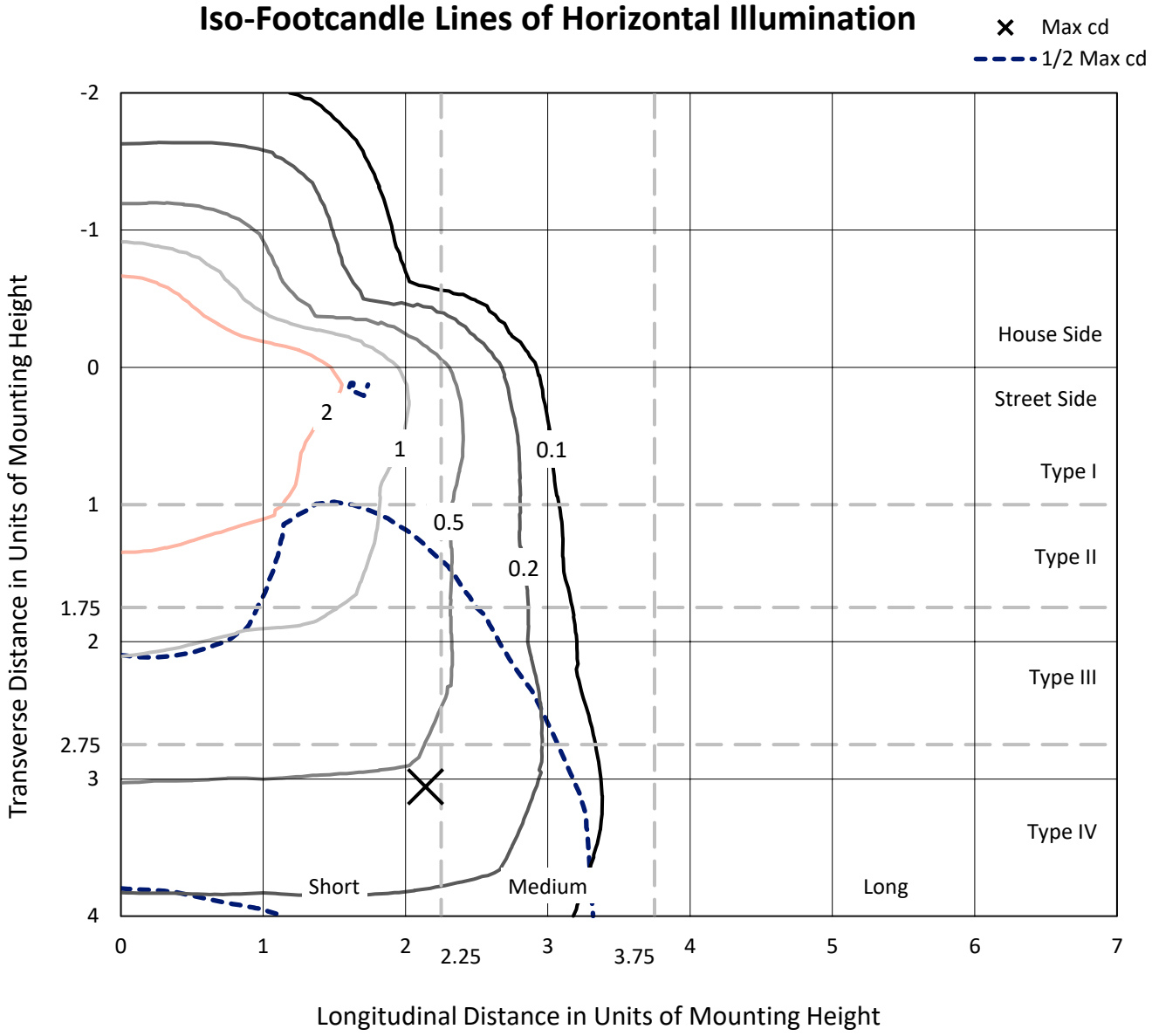
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

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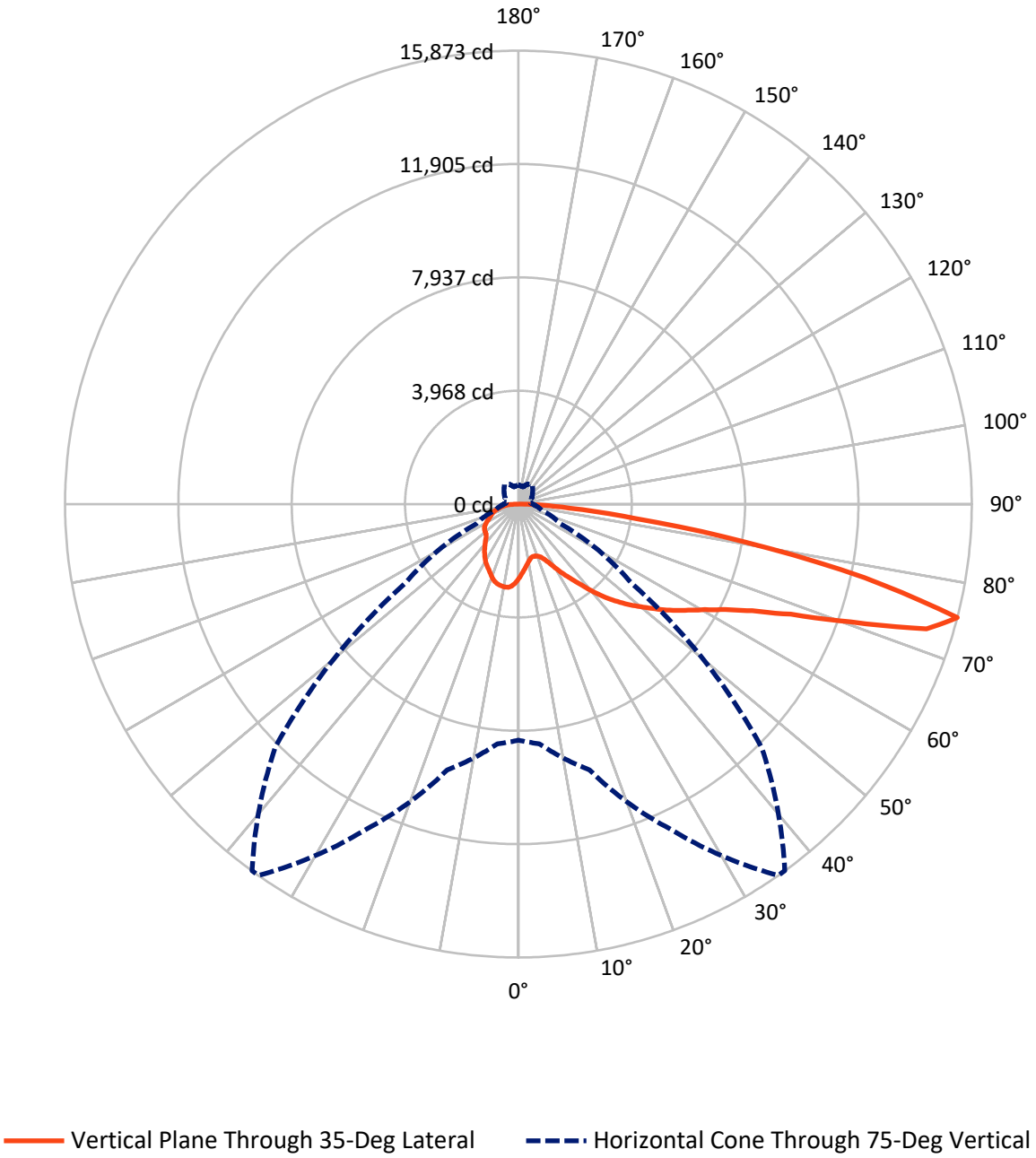
Luminous Intensity Polar Plot



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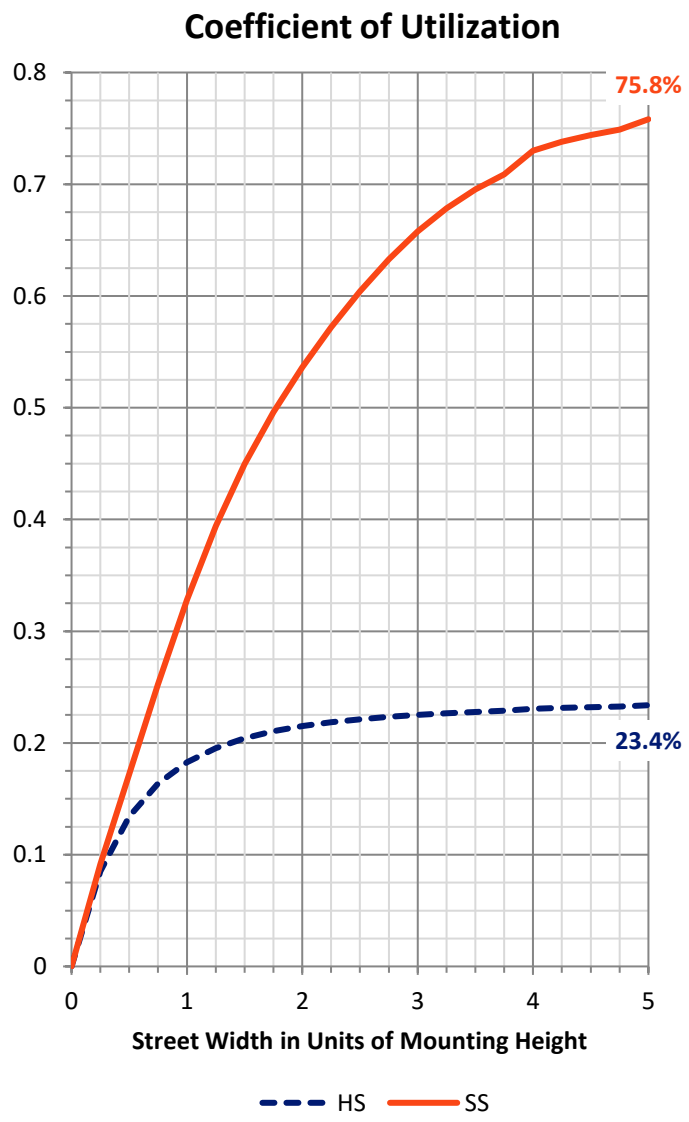
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4634.6	0.0	4634.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	14840.4	0.0	14840.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	19475.0	0.0	19475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.3
10°-20°	708.7	3.6
20°-30°	1190.2	6.1
30°-40°	1849.7	9.5
40°-50°	2745.4	14.1
50°-60°	3790.2	19.5
60°-70°	4598.4	23.6
70°-80°	3800.2	19.5
80°-90°	546.6	2.8
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°	19475.0	100.0
0°-180°	19475.0	100.0



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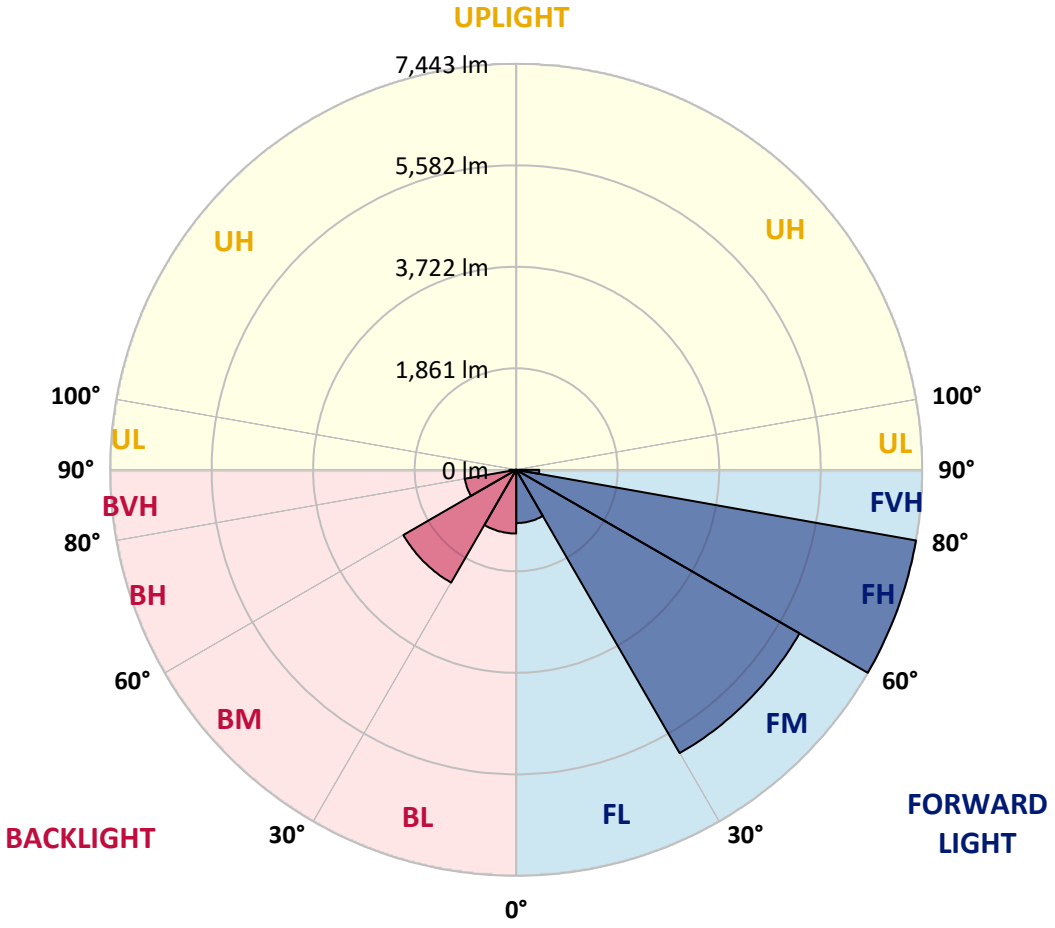
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	976.6	5.0			
FM	(30°-60°)	5997.2	30.8			
FH	(60°-80°)	7443.1	38.2			G3/7500
FVH	(80°-90°)	423.5	2.2			G3/500
BL	(0°-30°)	1168.0	6.0	B3/2500		
BM	(30°-60°)	2388.0	12.3	B2/2500		
BH	(60°-80°)	955.5	4.9	B2/1000		G2/1000
BVH	(80°-90°)	123.1	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2595.2	2595.2	2595.2	2595.2	*2595.2*	2595.2	2595.2	2595.2	2595.2	2595.2
2.5°	2393.0	2407.8	2414.1	2410.9	*2426.7*	2424.6	2446.7	2474.1	2512.0	2548.9
5°	2208.8	2224.6	2238.3	2250.9	*2281.4*	2290.9	2325.7	2378.3	2447.8	2518.3
7.5°	2037.2	2050.9	2071.9	2095.1	*2146.7*	2156.2	2214.1	2296.2	2393.0	2496.2
10°	1897.2	1910.8	1933.0	1959.3	*2023.5*	2035.1	2108.8	2218.3	2344.6	2475.2
12.5°	1837.2	1841.4	1854.0	1880.3	*1936.1*	1943.5	2024.6	2149.8	2297.2	2459.4
15°	1834.0	1842.4	1843.5	1857.2	*1903.5*	1906.6	1981.4	2105.6	2267.8	2456.2
17.5°	1865.6	1871.9	1862.4	1870.8	*1909.8*	1915.1	1974.0	2084.6	2258.3	2469.9
20°	1949.8	1955.1	1926.6	1915.1	*1943.5*	1947.7	2005.6	2098.2	2267.8	2498.3
22.5°	2128.8	2131.9	2062.5	2015.1	*2017.2*	2019.3	2069.8	2154.0	2304.6	2549.9
25°	2407.8	2405.7	2295.1	2203.5	*2150.9*	2139.3	2173.0	2244.6	2366.7	2618.3
27.5°	2734.1	2718.4	2607.8	2470.9	*2356.2*	2339.3	2332.0	2362.5	2455.2	2708.9
30°	3102.6	3087.9	2968.9	2789.9	*2631.0*	2603.6	2534.1	2518.3	2586.8	2832.1
32.5°	3506.9	3497.4	3355.3	3138.4	*2925.8*	2894.2	2777.3	2735.2	2788.9	3018.4
35°	3845.9	3837.5	3719.6	3496.4	*3236.3*	3197.4	3078.4	3031.0	3058.4	3257.4
37.5°	4152.3	4148.1	4047.0	3871.2	*3602.7*	3555.3	3421.6	3405.8	3400.6	3572.2
40°	4436.5	4426.0	4320.7	4228.1	*4029.1*	3985.9	3868.0	3854.3	3814.3	3959.6
42.5°	4751.3	4724.0	4571.3	4528.1	*4474.4*	4438.6	4368.1	4370.2	4281.8	4396.5
45°	5008.2	4992.4	4835.6	4810.3	*4868.2*	4853.5	4914.5	4930.3	4758.7	4854.5
47.5°	5284.1	5269.3	5136.7	5118.8	*5275.6*	5279.8	5495.7	5500.9	5224.0	5330.4
50°	5624.1	5603.1	5471.5	5493.6	*5669.4*	5685.2	6080.0	6044.2	5652.5	5813.6
52.5°	5848.4	5861.0	5832.6	5868.4	*6108.4*	6123.1	6654.8	6563.2	6076.8	6290.5
55°	6013.6	6038.9	6127.4	6209.5	*6571.6*	6586.4	7197.0	7057.0	6428.5	6732.7
57.5°	6226.3	6190.5	6355.8	6515.8	*7011.7*	7050.7	7724.5	7532.9	6740.1	7113.8
60°	6531.6	6506.4	6634.8	6871.7	*7504.4*	7566.5	8282.5	7961.3	6968.5	7416.0
62.5°	7150.7	7087.5	7107.5	7317.0	*8125.6*	8207.7	8912.0	8335.1	7082.2	7533.9
65°	8076.1	7967.7	7866.6	8011.9	*9000.5*	9081.5	9622.7	8628.8	7040.1	7305.4
67.5°	9241.6	9134.2	9009.9	9146.8	*10289.1*	10353.3	10499.7	8794.1	6708.5	6425.3
70°	10202.8	10162.8	10311.2	10874.5	*12347.4*	12349.5	11624.1	8657.3	5799.9	4555.5
72.5°	10075.4	10051.2	10833.4	12574.8	*14941.5*	14885.7	12688.5	7621.3	3907.0	2055.1
75°	*8265.6*	*8422.5*	*9634.3*	*12544.2*	*15873.2*	*15865.8*	*12036.8*	*4845.0*	*1616.1*	*851.7*
77.5°	4432.3	4680.8	6254.7	9261.6	*12391.6*	12577.9	8462.5	1695.0	693.8	545.4
80°	1445.5	1662.4	2493.1	4715.5	*8051.9*	8017.1	3626.9	665.4	474.8	386.4
82.5°	613.8	639.1	1113.9	2226.7	*4132.3*	4068.1	1154.9	382.2	333.7	264.3
85°	240.0	268.5	491.7	1029.6	*1789.8*	1750.8	416.9	189.5	213.7	172.7
87.5°	79.0	95.8	175.8	352.7	*556.9*	536.9	102.1	65.3	92.6	79.0
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°
2595.2	0°	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2	2595.2
2602.5	2.5°	2617.3	2634.1	2654.1	2683.6	2708.9	2729.9	2752.0	2765.7	2771.0	2786.8
2606.8	5°	2636.2	2673.1	2722.6	2771.0	2818.4	2846.8	2872.1	2884.7	2896.3	2904.7
2618.3	7.5°	2667.8	2715.2	2793.1	2856.3	2896.3	2919.4	2936.3	2932.1	2936.3	2938.4
2631.0	10°	2695.2	2761.5	2854.2	2914.2	2944.7	2945.8	2941.5	2926.8	2919.4	2920.5
2649.9	12.5°	2727.8	2801.5	2901.5	2952.1	2960.5	2937.3	2919.4	2894.2	2884.7	2880.5
2678.3	15°	2772.0	2856.3	2953.1	2972.1	2951.0	2921.5	2891.0	2850.0	2828.9	2812.1
2726.8	17.5°	2825.7	2918.4	2993.1	2979.5	2934.2	2885.8	2836.3	2774.2	2731.0	2713.1
2793.1	20°	2900.5	2983.7	3023.7	2963.7	2895.2	2821.5	2737.3	2661.5	2621.5	2603.6
2877.3	22.5°	2991.0	3071.0	3053.1	2936.3	2839.4	2721.5	2616.2	2560.4	2540.4	2527.8
2985.8	25°	3099.5	3167.9	3074.2	2896.3	2747.8	2588.9	2507.8	2489.9	2480.4	2470.9
3118.4	27.5°	3240.5	3277.4	3090.0	2837.3	2604.7	2447.8	2418.3	2421.5	2418.3	2402.5
3302.7	30°	3426.9	3419.5	3104.7	2741.5	2440.4	2320.4	2322.5	2336.2	2338.3	2327.8
3559.5	32.5°	3672.2	3597.5	3112.1	2617.3	2283.5	2208.8	2210.9	2225.6	2236.2	2218.3
3895.4	35°	3969.1	3804.9	3100.5	2461.5	2162.5	2102.5	2086.7	2090.9	2094.0	2077.2
4302.8	37.5°	4315.5	4037.5	3048.9	2288.8	2062.5	1998.2	1964.5	1936.1	1919.3	1903.5
4764.0	40°	4695.5	4291.3	2954.2	2120.4	1950.9	1887.7	1837.2	1783.5	1726.6	1705.6
5252.5	42.5°	5093.5	4552.3	2839.4	1959.3	1822.4	1770.8	1717.1	1639.2	1553.9	1510.8
5759.9	45°	5506.2	4819.8	2726.8	1800.3	1690.8	1668.7	1606.6	1512.9	1420.2	1365.5
6268.4	47.5°	5910.5	5072.4	2561.5	1640.3	1567.6	1591.8	1543.4	1457.1	1353.9	1267.6
6772.7	50°	6296.9	5309.3	2290.9	1478.1	1467.6	1568.7	1522.4	1398.1	1280.2	1169.7
7267.5	52.5°	6680.1	5500.9	1944.5	1330.8	1413.9	1562.4	1495.0	1358.1	1213.9	1098.1
7732.9	55°	7005.4	5599.9	1610.8	1204.4	1336.0	1508.7	1462.4	1310.7	1120.2	997.0
8051.9	57.5°	7190.7	5519.9	1332.9	1080.2	1228.6	1420.2	1406.6	1209.7	1008.6	913.8
8114.0	60°	7110.7	5195.6	1105.5	971.7	1126.5	1324.4	1309.7	1109.7	923.3	833.8
7781.3	62.5°	6669.5	4577.6	925.4	877.0	1033.9	1226.5	1212.8	1032.8	858.0	771.7
6898.0	65°	5781.0	3723.8	785.4	798.0	940.2	1108.6	1128.6	968.6	806.5	722.2
5336.7	67.5°	4409.2	2697.3	675.9	729.6	848.6	992.8	1050.7	922.3	763.3	683.3
3087.9	70°	2513.1	1531.8	583.3	663.3	767.5	885.4	990.7	885.4	717.0	650.6
1157.0	72.5°	952.8	703.3	504.3	596.9	689.6	794.9	924.4	827.5	663.3	613.8
598.0	75°	*508.5*	*428.5*	*424.3*	*519.0*	*600.1*	*706.4*	*841.2*	*770.7*	*623.3*	*648.5*
413.8	77.5°	346.4	303.2	354.8	444.3	502.2	608.5	752.8	684.3	540.1	538.0
286.4	80°	240.0	214.8	288.5	358.0	388.5	511.7	657.0	587.5	440.1	410.6
176.9	82.5°	144.2	140.0	215.8	267.4	274.8	394.8	544.3	492.7	360.1	313.7
105.3	85°	79.0	83.2	137.9	156.9	160.0	275.8	426.4	381.1	276.9	232.7
37.9	87.5°	22.1	28.4	50.5	62.1	76.9	143.2	253.7	226.4	139.0	96.9
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°
2595.2
2785.7
2906.8
2941.5
2922.6
2878.4
2817.3
2714.1
2601.5
2529.9
2470.9
2405.7
2333.0
2226.7
2088.8
1914.0
1715.0
1516.0
1361.3
1258.1
1160.2
1085.4
986.5
901.2
821.2
758.0
708.5
670.6
642.2
605.4
669.6
495.9
392.7
315.8
234.8
96.9
0.0

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