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: P941249

Luminaire Tested: **GALN-SB4C-940-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:	P941249
	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-SB4C-940-U-T4FT
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21497 lumens
Efficiency:	N/A
Efficacy:	107.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G4
Input Watts (W):	200.7
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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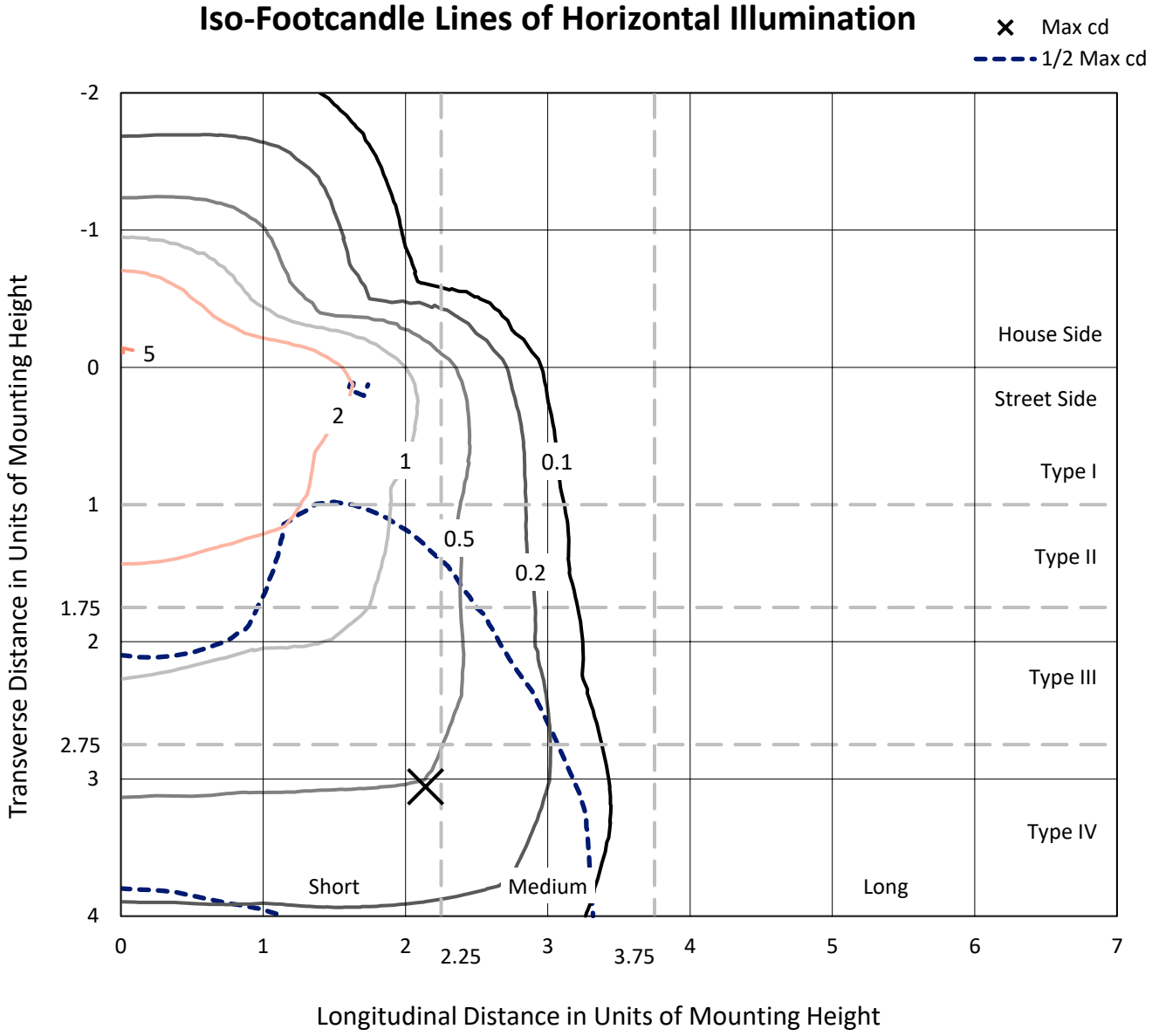
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type IV - Short - N/A

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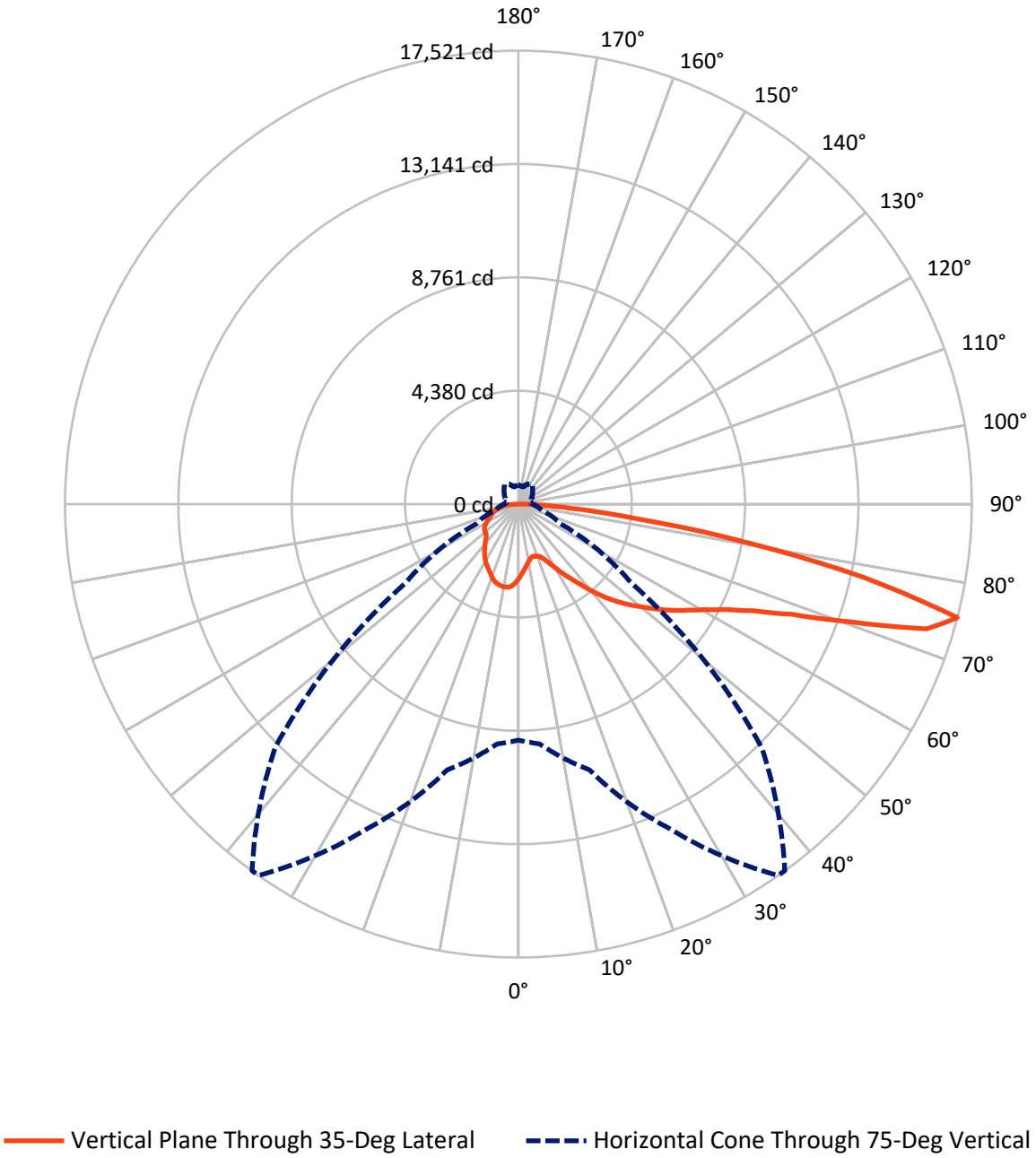
Luminous Intensity Polar Plot



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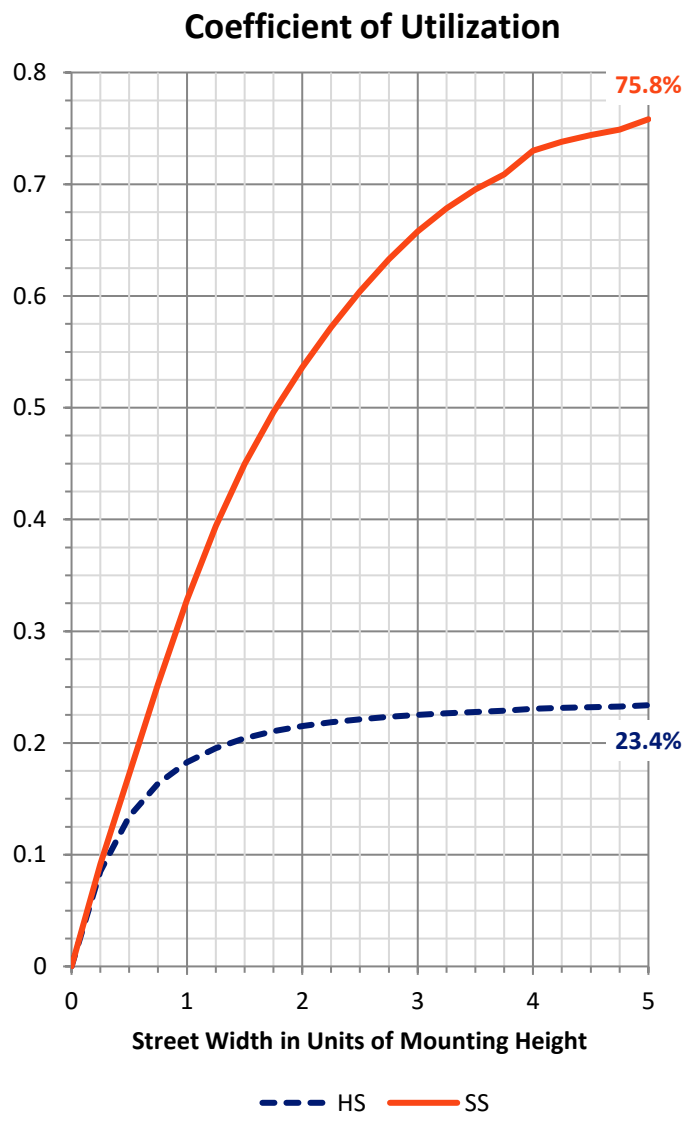
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5115.7	0.0	5115.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	16381.3	0.0	16381.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	21497.0	0.0	21497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.2	1.3
10°-20°	782.3	3.6
20°-30°	1313.7	6.1
30°-40°	2041.7	9.5
40°-50°	3030.4	14.1
50°-60°	4183.7	19.5
60°-70°	5075.8	23.6
70°-80°	4194.8	19.5
80°-90°	603.3	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°	21497.0	100.0
0°-180°	21497.0	100.0



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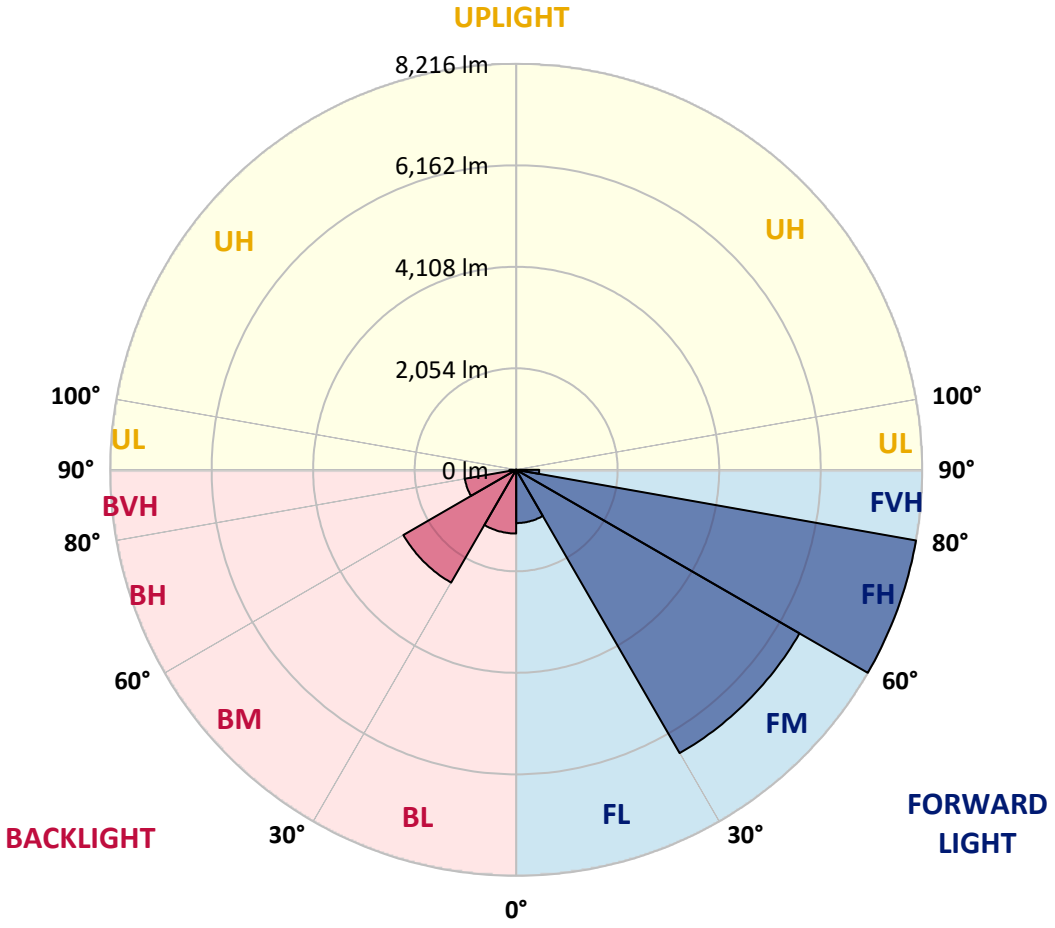
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1078.0	5.0			
FM	(30°-60°)	6619.9	30.8			
FH	(60°-80°)	8215.8	38.2			G4/12000
FVH	(80°-90°)	467.5	2.2			G3/500
BL	(0°-30°)	1289.2	6.0	B3/2500		
BM	(30°-60°)	2635.9	12.3	B3/5000		
BH	(60°-80°)	1054.7	4.9	B3/2500		G3/2500
BVH	(80°-90°)	135.9	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-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	2864.6	2864.6	2864.6	2864.6	*2864.6*	2864.6	2864.6	2864.6	2864.6	2864.6
2.5°	2641.5	2657.8	2664.7	2661.3	*2678.7*	2676.4	2700.8	2731.0	2772.8	2813.5
5°	2438.1	2455.6	2470.7	2484.6	*2518.3*	2528.8	2567.1	2625.2	2701.9	2779.8
7.5°	2248.7	2263.8	2287.0	2312.6	*2369.6*	2380.0	2443.9	2534.6	2641.5	2755.4
10°	2094.1	2109.2	2133.6	2162.7	*2233.6*	2246.4	2327.7	2448.6	2588.0	2732.1
12.5°	2027.9	2032.5	2046.5	2075.5	*2137.1*	2145.3	2234.8	2373.0	2535.7	2714.7
15°	2024.4	2033.7	2034.9	2050.0	*2101.1*	2104.6	2187.1	2324.2	2503.2	2711.2
17.5°	2059.3	2066.2	2055.8	2065.1	*2108.1*	2113.9	2179.0	2301.0	2492.7	2726.3
20°	2152.2	2158.1	2126.7	2113.9	*2145.3*	2149.9	2213.8	2316.1	2503.2	2757.7
22.5°	2349.8	2353.3	2276.6	2224.3	*2226.6*	2228.9	2284.7	2377.7	2543.9	2814.6
25°	2657.8	2655.4	2533.4	2432.3	*2374.2*	2361.4	2398.6	2477.6	2612.4	2890.2
27.5°	3018.0	3000.6	2878.6	2727.5	*2600.8*	2582.2	2574.1	2607.8	2710.1	2990.1
30°	3424.8	3408.5	3277.2	3079.6	*2904.1*	2873.9	2797.2	2779.8	2855.3	3126.1
32.5°	3871.0	3860.6	3703.7	3464.3	*3229.5*	3194.7	3065.7	3019.2	3078.5	3331.8
35°	4245.2	4235.9	4105.8	3859.4	*3572.4*	3529.4	3398.0	3345.7	3376.0	3595.6
37.5°	4583.4	4578.7	4467.2	4273.1	*3976.8*	3924.5	3776.9	3759.5	3753.6	3943.1
40°	4897.2	4885.5	4769.3	4667.1	*4447.4*	4399.8	4269.6	4254.5	4210.4	4370.7
42.5°	5244.6	5214.4	5045.9	4998.3	*4939.0*	4899.5	4821.6	4824.0	4726.3	4853.0
45°	5528.2	5510.8	5337.6	5309.7	*5373.6*	5357.4	5424.8	5442.2	5252.8	5358.5
47.5°	5832.7	5816.4	5670.0	5650.2	*5823.4*	5828.0	6066.3	6072.1	5766.4	5883.8
50°	6208.0	6184.8	6039.5	6063.9	*6258.0*	6275.4	6711.2	6671.7	6239.4	6417.2
52.5°	6455.6	6469.5	6438.1	6477.6	*6742.6*	6758.9	7345.7	7244.6	6707.7	6943.7
55°	6638.0	6665.9	6763.5	6854.2	*7253.9*	7270.2	7944.2	7789.7	7095.9	7431.7
57.5°	6872.8	6833.3	7015.7	7192.3	*7739.7*	7782.7	8526.5	8315.0	7439.9	7852.4
60°	7209.8	7181.9	7323.7	7585.1	*8283.6*	8352.1	9142.4	8787.9	7692.1	8186.0
62.5°	7893.1	7823.4	7845.5	8076.7	*8969.2*	9059.9	9837.3	9200.5	7817.6	8316.1
65°	8914.6	8794.9	8683.3	8843.7	*9934.9*	10024.4	10621.8	9524.7	7771.1	8063.9
67.5°	10201.1	10082.5	9945.4	10096.5	*11357.4*	11428.3	11589.8	9707.2	7405.0	7092.4
70°	11262.1	11217.9	11381.8	12003.5	*13629.3*	13631.6	12830.9	9556.1	6402.1	5028.5
72.5°	11121.5	11094.7	11958.2	13880.3	*16492.8*	16431.2	14005.8	8412.6	4312.6	2268.5
75°	*9123.8*	*9296.9*	*10634.5*	*13846.6*	*17521.3*	*17513.1*	*13286.5*	*5348.1*	*1783.9*	*940.2*
77.5°	4892.5	5166.8	6904.1	10223.2	*13678.1*	13883.8	9341.1	1871.0	765.8	602.0
80°	1595.6	1835.0	2751.9	5205.1	*8887.9*	8849.5	4003.5	734.5	524.1	426.5
82.5°	677.5	705.4	1229.5	2457.9	*4561.3*	4490.4	1274.8	421.8	368.4	291.7
85°	265.0	296.3	542.7	1136.6	*1975.6*	1932.6	460.2	209.2	235.9	190.6
87.5°	87.2	105.8	194.1	389.3	*614.8*	592.7	112.7	72.1	102.3	87.2
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°
2864.6	0°	2864.6	2864.6	2864.6	2864.6	2864.6	2864.6	2864.6	2864.6	2864.6	2864.6
2872.8	2.5°	2889.0	2907.6	2929.7	2962.2	2990.1	3013.4	3037.8	3052.9	3058.7	3076.1
2877.4	5°	2909.9	2950.6	3005.2	3058.7	3111.0	3142.4	3170.3	3184.2	3197.0	3206.3
2890.2	7.5°	2944.8	2997.1	3083.1	3152.8	3197.0	3222.6	3241.1	3236.5	3241.1	3243.5
2904.1	10°	2975.0	3048.2	3150.5	3216.7	3250.4	3251.6	3247.0	3230.7	3222.6	3223.7
2925.1	12.5°	3011.0	3092.4	3202.8	3258.6	3267.9	3242.3	3222.6	3194.7	3184.2	3179.6
2956.4	15°	3059.9	3152.8	3259.7	3280.7	3257.4	3224.9	3191.2	3145.9	3122.6	3104.0
3009.9	17.5°	3119.1	3221.4	3303.9	3288.8	3238.8	3185.4	3130.7	3062.2	3014.5	2994.8
3083.1	20°	3201.6	3293.4	3337.6	3271.4	3195.8	3114.5	3021.5	2937.8	2893.7	2873.9
3176.1	22.5°	3301.6	3389.9	3370.1	3241.1	3134.2	3004.1	2887.9	2826.3	2804.2	2790.2
3295.8	25°	3421.3	3496.8	3393.4	3197.0	3033.1	2857.6	2768.2	2748.4	2737.9	2727.5
3442.2	27.5°	3577.0	3617.7	3410.8	3131.9	2875.1	2701.9	2669.4	2672.9	2669.4	2652.0
3645.6	30°	3782.7	3774.6	3427.1	3026.2	2693.8	2561.3	2563.6	2578.7	2581.1	2569.4
3929.1	32.5°	4053.5	3971.0	3435.2	2889.0	2520.6	2438.1	2440.4	2456.7	2468.3	2448.6
4299.8	35°	4381.2	4199.9	3422.4	2717.0	2387.0	2320.7	2303.3	2308.0	2311.5	2292.9
4749.6	37.5°	4763.5	4456.7	3365.5	2526.4	2276.6	2205.7	2168.5	2137.1	2118.5	2101.1
5258.6	40°	5183.0	4736.8	3260.9	2340.5	2153.4	2083.7	2027.9	1968.6	1905.9	1882.6
5797.8	42.5°	5622.3	5025.0	3134.2	2162.7	2011.6	1954.7	1895.4	1809.4	1715.3	1667.6
6357.9	45°	6077.9	5320.2	3009.9	1987.2	1866.4	1842.0	1773.4	1670.0	1567.7	1507.3
6919.3	47.5°	6524.1	5599.1	2827.4	1810.6	1730.4	1757.1	1703.7	1608.4	1494.5	1399.2
7475.9	50°	6950.6	5860.6	2528.8	1631.6	1620.0	1731.6	1680.4	1543.3	1413.1	1291.1
8022.1	52.5°	7373.6	6072.1	2146.4	1468.9	1560.7	1724.6	1650.2	1499.1	1339.9	1212.1
8535.8	55°	7732.7	6181.3	1778.0	1329.5	1474.7	1665.3	1614.2	1446.8	1236.5	1100.5
8887.9	57.5°	7937.3	6093.0	1471.2	1192.3	1356.2	1567.7	1552.6	1335.3	1113.3	1008.7
8956.4	60°	7848.9	5735.1	1220.2	1072.6	1243.5	1461.9	1445.7	1224.9	1019.2	920.4
8589.2	62.5°	7362.0	5052.9	1021.5	968.0	1141.2	1353.9	1338.8	1140.0	947.1	851.8
7614.2	65°	6381.2	4110.4	866.9	880.9	1037.8	1223.7	1245.8	1069.1	890.2	797.2
5890.8	67.5°	4866.9	2977.3	746.1	805.3	936.7	1095.9	1159.8	1018.0	842.5	754.2
3408.5	70°	2774.0	1690.9	643.8	732.1	847.2	977.3	1093.6	977.3	791.4	718.2
1277.2	72.5°	1051.7	776.3	556.7	658.9	761.2	877.4	1020.3	913.4	732.1	677.5
660.1	75°	*561.3*	*473.0*	*468.3*	*572.9*	*662.4*	*779.8*	*928.5*	*850.7*	*688.0*	*715.9*
456.7	77.5°	382.3	334.7	391.6	490.4	554.3	671.7	830.9	755.4	596.2	593.8
316.1	80°	265.0	237.1	318.4	395.1	428.8	564.8	725.2	648.5	485.8	453.2
195.2	82.5°	159.2	154.6	238.2	295.2	303.3	435.8	600.8	543.9	397.4	346.3
116.2	85°	87.2	91.8	152.2	173.2	176.6	304.5	470.7	420.7	305.6	256.8
41.8	87.5°	24.4	31.4	55.8	68.6	84.8	158.0	280.1	249.9	153.4	106.9
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°
2864.6
3075.0
3208.6
3247.0
3226.0
3177.2
3109.8
2995.9
2871.6
2792.6
2727.5
2655.4
2575.3
2457.9
2305.6
2112.7
1893.1
1673.4
1502.6
1388.7
1280.7
1198.1
1088.9
994.8
906.5
836.7
782.1
740.3
708.9
668.2
739.1
547.4
433.5
348.6
259.2
106.9
0.0

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