Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P951211

Luminaire Tested: **GALN-SB5B-935-U-T3R**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P951211
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	20314 lumens
Efficiency:	N/A
Efficacy:	111.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - 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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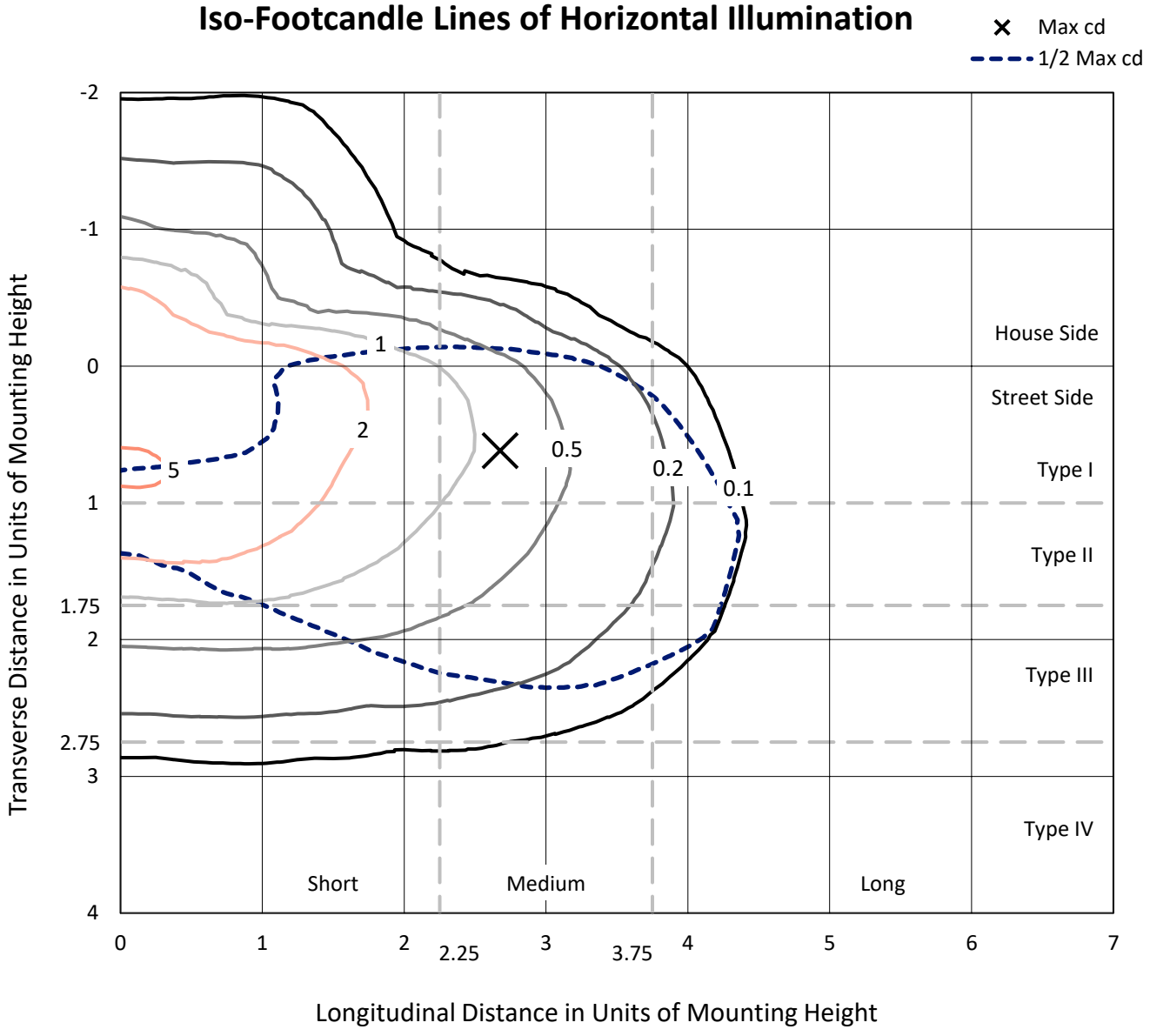
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type III - Medium - N/A

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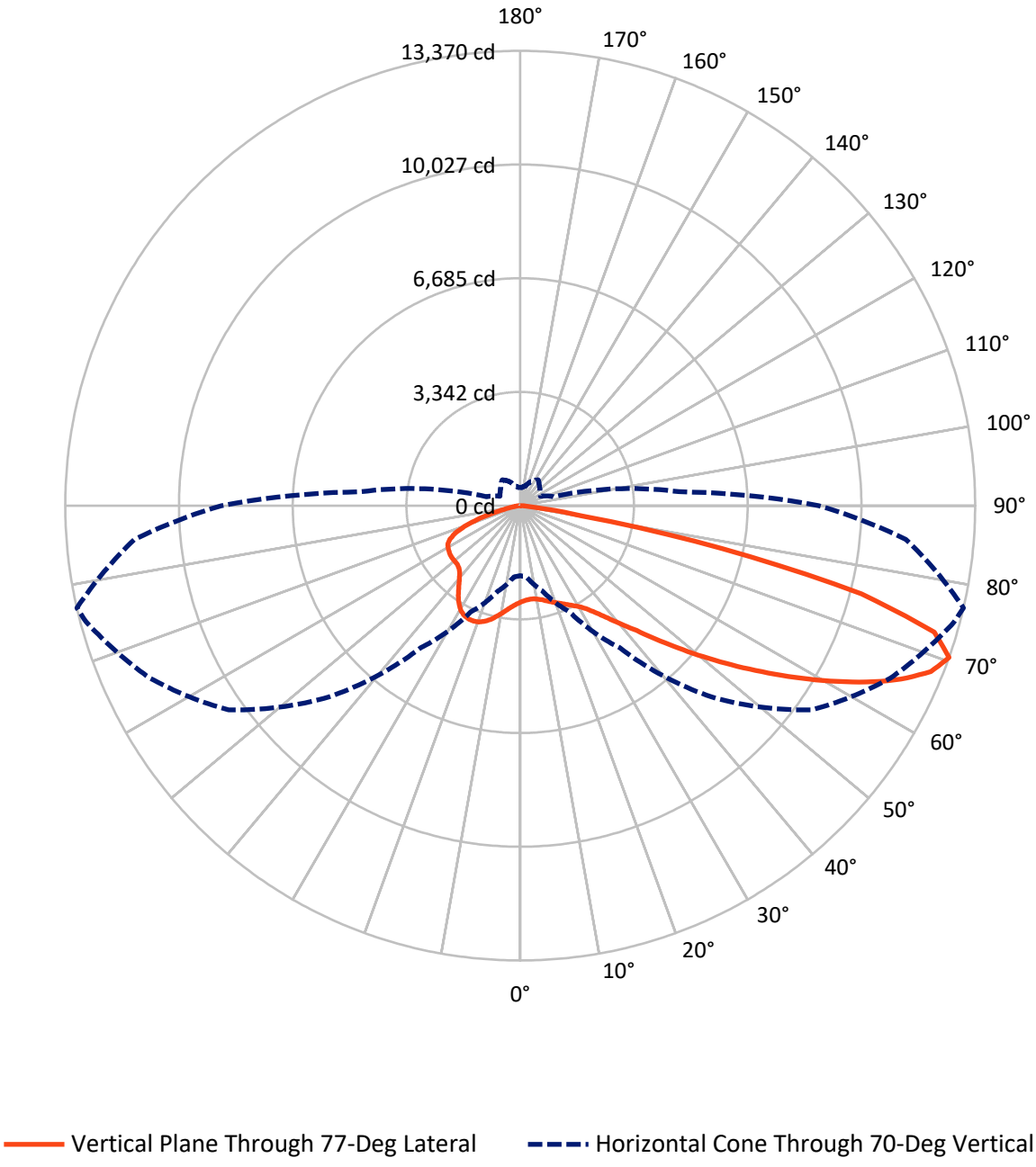
Luminous Intensity Polar Plot



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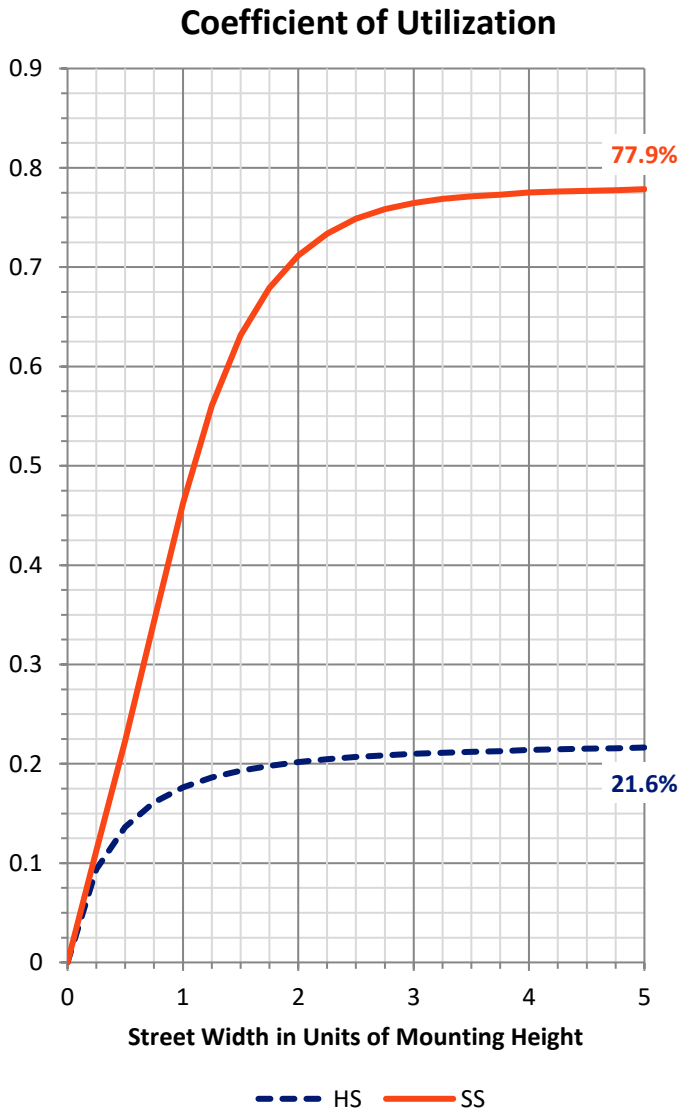
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4448.4	0.0	4448.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15865.5	0.0	15865.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	20314.0	0.0	20314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.3	1.3
10°-20°	780.1	3.8
20°-30°	1334.0	6.6
30°-40°	2145.3	10.6
40°-50°	3349.3	16.5
50°-60°	4473.9	22.0
60°-70°	4768.5	23.5
70°-80°	2935.4	14.5
80°-90°	257.2	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°	20314.0	100.0
0°-180°	20314.0	100.0



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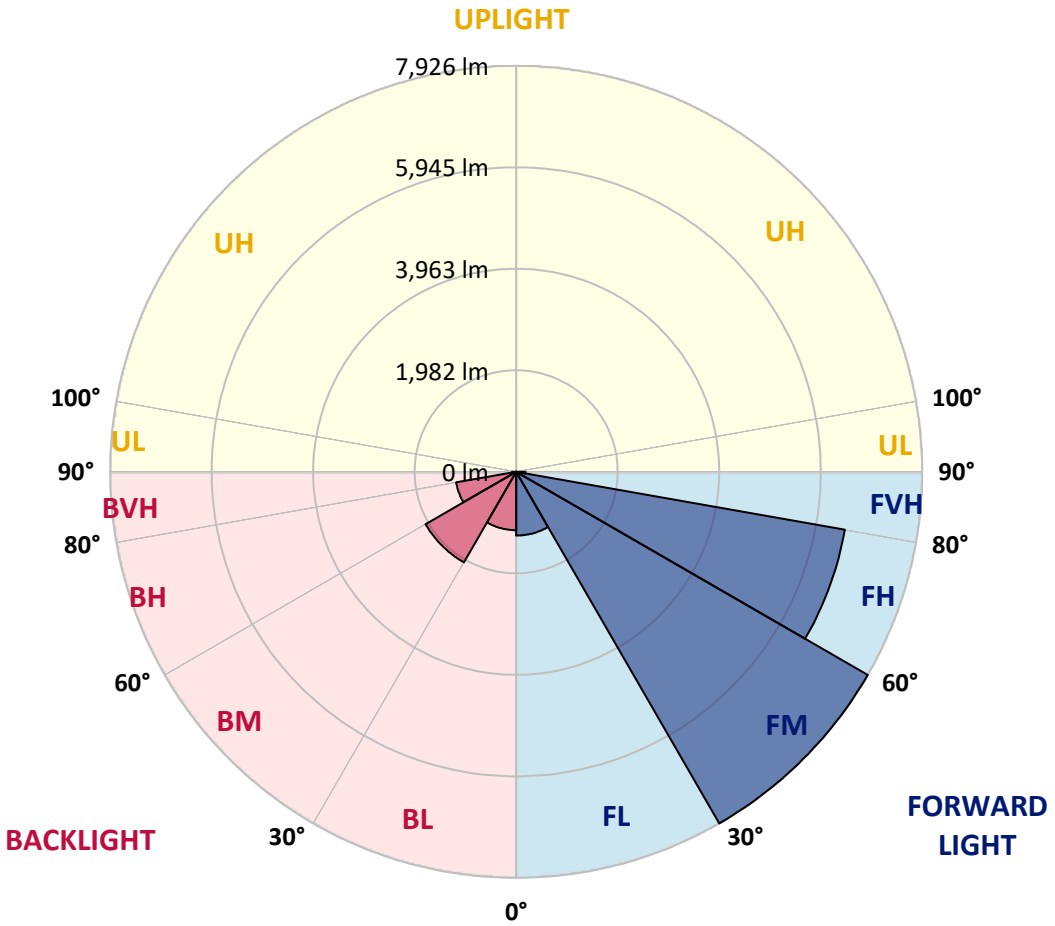
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1244.6	6.1			
FM	(30°-60°)	7926.1	39.0			
FH	(60°-80°)	6515.0	32.1			G3/7500
FVH	(80°-90°)	179.9	0.9			G2/225
BL	(0°-30°)	1139.8	5.6	B3/2500		
BM	(30°-60°)	2042.4	10.1	B2/2500		
BH	(60°-80°)	1188.9	5.9	B3/2500		G3/2500
BVH	(80°-90°)	77.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	*2834.0*
2.5°	2612.4	2611.3	2624.9	2629.0	2654.0	2671.7	2705.0	2740.4	2786.1	*2791.3*
5°	2461.5	2461.5	2477.1	2493.8	2526.0	2561.4	2612.4	2673.8	2752.8	*2765.3*
7.5°	2333.6	2341.9	2355.4	2387.7	2425.1	2476.1	2554.1	2641.5	2745.6	*2765.3*
10°	2230.6	2239.9	2256.6	2282.6	2338.8	2409.5	2511.5	2623.8	2763.2	*2794.5*
12.5°	2198.3	2207.7	2217.0	2236.8	2288.8	2372.1	2493.8	2632.2	2805.9	*2837.1*
15°	2273.2	2284.7	2277.4	2272.2	2299.2	2375.2	2502.1	2662.3	2859.0	*2903.7*
17.5°	2445.9	2450.1	2433.4	2384.5	2380.4	2421.0	2541.6	2703.9	2925.5	*2974.4*
20°	2724.7	2717.5	2683.1	2586.4	2531.2	2522.9	2609.3	2766.4	2994.2	*3046.2*
22.5°	3103.4	3095.1	3026.5	2873.5	2750.8	2669.6	2707.1	2847.5	3071.2	*3129.5*
25°	3575.8	3564.3	3463.4	3255.3	3065.0	2864.2	2840.2	2954.7	3165.9	*3220.0*
27.5°	4127.2	4117.8	4008.6	3733.9	3459.3	3130.5	3005.7	3080.6	3264.7	*3326.1*
30°	4720.2	4747.2	4553.7	4258.3	3910.8	3478.0	3228.3	3235.6	3392.7	*3447.8*
32.5°	5417.2	5464.1	5231.0	4856.5	4382.1	3855.6	3509.2	3452.0	3578.9	*3624.7*
35°	6108.1	6161.1	5967.6	5553.5	5007.3	4300.9	3802.6	3700.6	3826.5	*3876.4*
37.5°	6705.2	6776.0	6676.1	6316.1	5676.3	4837.8	4185.4	3993.0	4131.3	*4193.8*
40°	7176.5	7284.7	7277.4	7052.7	6464.9	5489.0	4671.3	4354.0	4510.0	*4577.7*
42.5°	7559.4	7653.0	7734.2	7722.7	7287.8	6228.7	5242.5	4823.2	4941.8	*5019.8*
45°	7823.6	7923.5	8098.3	8286.6	8079.6	7020.5	5896.9	5379.8	5488.0	*5605.6*
47.5°	8059.8	8173.2	8400.0	8698.6	8751.7	7815.3	6613.7	6027.9	6126.8	*6248.5*
50°	8080.6	8178.4	8530.1	8953.5	9229.2	8579.0	7383.6	6755.2	6847.8	*6977.8*
52.5°	7578.1	7732.1	8345.9	8946.2	9448.7	9217.7	8148.2	7511.5	7615.6	*7771.6*
55°	5882.3	6108.1	7806.0	8667.4	9370.7	9630.8	8875.5	8315.7	8448.9	*8612.2*
57.5°	5066.6	5165.5	6196.5	8159.7	9014.9	9737.9	9489.3	9128.3	9342.6	*9521.5*
60°	4553.7	4635.9	5245.6	7370.0	8546.7	9568.4	9963.7	9885.7	10256.0	*10469.3*
62.5°	4004.4	4082.4	4637.0	6153.8	7947.4	9286.4	10263.3	10584.8	11192.4	*11425.4*
65°	3459.3	3525.8	4057.5	5170.7	7185.9	9004.5	10418.3	11189.3	12059.0	*12300.4*
67.5°	2851.7	2906.8	3409.3	4362.3	6260.0	8618.5	10495.3	11664.7	12813.3	*13020.3*
70°	*2057.9*	*2100.5*	*2619.7*	*3449.9*	*5097.8*	*7954.7*	*10464.1*	*12001.8*	*13204.5*	*13369.9*
72.5°	972.8	1011.2	1620.9	2239.9	3600.7	6662.6	9832.6	11734.4	12807.0	*12724.9*
75°	519.1	552.4	931.1	1228.7	1901.8	4567.3	8046.3	10108.3	10754.4	*10354.9*
77.5°	351.6	377.7	576.4	737.6	868.7	2168.1	5171.7	6998.6	6733.3	*6073.7*
80°	278.8	305.9	472.3	499.4	420.3	783.4	2136.9	3239.7	2327.3	*1861.2*
82.5°	214.3	244.5	397.4	362.1	228.9	321.5	622.1	1024.8	596.1	*453.6*
85°	131.1	163.3	312.1	231.0	129.0	146.7	211.2	285.1	182.1	*151.9*
87.5°	66.6	93.6	158.1	84.3	58.3	34.3	56.2	56.2	47.9	*41.6*
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°
2834.0	0°	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0	2834.0
2819.4	2.5°	2844.4	2865.2	2900.6	2933.9	2959.9	2984.8	3009.8	3023.3	3027.5	3044.1
2835.0	5°	2877.7	2916.2	2984.8	3049.3	3089.9	3114.9	3132.6	3143.0	3145.1	3150.3
2877.7	7.5°	2939.1	3000.4	3096.2	3160.7	3190.8	3188.8	3181.5	3155.5	3145.1	3135.7
2940.1	10°	3025.4	3106.6	3224.1	3268.9	3250.1	3200.2	3135.7	3059.8	3024.4	2990.0
3025.4	12.5°	3132.6	3235.6	3351.1	3349.0	3256.4	3128.4	2978.6	2862.1	2788.2	2735.2
3130.5	15°	3262.6	3381.2	3469.7	3398.9	3196.0	2966.1	2746.6	2594.7	2528.1	2469.9
3236.6	17.5°	3396.8	3523.8	3564.3	3383.3	3044.1	2725.8	2477.1	2357.5	2292.0	2260.7
3351.1	20°	3527.9	3653.8	3620.5	3293.8	2813.2	2453.2	2231.6	2166.1	2152.5	2159.8
3462.4	22.5°	3666.3	3778.7	3632.0	3121.1	2518.8	2174.4	2052.7	2054.7	2084.9	2106.8
3578.9	25°	3807.8	3883.7	3601.8	2871.4	2202.5	1969.4	1939.3	1972.6	2031.9	2074.5
3710.0	27.5°	3944.1	3977.4	3536.2	2562.4	1930.9	1822.7	1827.9	1896.6	1986.1	2045.4
3869.2	30°	4098.0	4060.6	3410.4	2215.0	1742.6	1696.9	1740.6	1820.7	1910.1	1963.2
4070.0	32.5°	4271.8	4132.4	3210.6	1893.5	1609.5	1595.9	1667.7	1719.7	1759.3	1774.9
4336.3	35°	4488.2	4233.3	2954.7	1667.7	1489.8	1522.1	1590.7	1564.7	1549.1	1540.8
4694.2	37.5°	4769.1	4369.6	2655.0	1521.0	1393.1	1469.0	1497.1	1416.0	1354.6	1324.4
5128.0	40°	5107.2	4569.3	2366.9	1407.6	1331.7	1423.2	1374.3	1276.5	1198.5	1155.9
5616.0	42.5°	5482.8	4778.5	2124.5	1322.3	1297.4	1385.8	1283.8	1167.3	1041.4	1027.9
6197.5	45°	5877.1	4993.8	1959.0	1256.8	1280.7	1353.5	1231.8	1043.5	954.0	1009.2
6781.2	47.5°	6271.4	5191.5	1859.2	1207.9	1272.4	1317.1	1186.0	974.8	911.4	991.5
7406.4	50°	6710.4	5368.3	1814.4	1172.5	1263.0	1302.6	1117.4	957.1	866.6	919.7
8053.6	52.5°	7146.4	5505.7	1781.1	1137.1	1249.5	1291.1	1084.1	936.3	812.5	815.7
8704.8	55°	7581.2	5595.2	1744.7	1090.3	1219.3	1266.1	1081.0	913.5	772.0	757.4
9393.6	57.5°	8045.2	5646.1	1700.0	1038.3	1167.3	1202.7	1077.8	895.8	759.5	735.5
10097.9	60°	8517.6	5721.0	1641.7	974.8	1097.6	1126.7	1070.5	889.5	752.2	711.6
10761.7	62.5°	8941.0	5747.0	1572.0	914.5	1008.1	1051.8	1054.9	884.3	732.4	662.7
11313.1	65°	9218.8	5634.7	1450.3	845.8	911.4	974.8	1024.8	866.6	697.1	627.3
11585.6	67.5°	9207.3	5314.2	1259.9	757.4	817.7	889.5	981.1	836.5	654.4	583.7
11379.6	70°	*8778.7*	*4681.7*	*1018.5*	*654.4*	*714.7*	*798.0*	*924.9*	*791.7*	*603.4*	*535.8*
10118.7	72.5°	7529.2	3664.2	739.7	533.7	595.1	703.3	852.1	737.6	551.4	493.1
7478.2	75°	5378.8	2319.0	501.5	409.9	463.0	596.1	761.6	674.2	503.5	495.2
3745.4	77.5°	2747.6	1108.0	331.9	299.6	322.5	470.3	639.8	602.4	510.8	408.9
1065.3	80°	893.7	408.9	209.1	203.9	214.3	313.2	495.2	494.2	387.0	277.8
258.0	82.5°	285.1	175.8	136.3	131.1	125.9	196.6	345.4	391.2	261.1	175.8
92.6	85°	113.4	105.1	80.1	73.9	53.1	92.6	181.0	260.1	194.6	126.9
23.9	87.5°	41.6	41.6	21.8	15.6	11.4	31.2	48.9	78.0	111.3	65.5
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

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180°
2834.0
3053.5
3158.6
3137.8
2979.6
2722.7
2463.6
2270.1
2156.7
2112.0
2086.0
2059.9
1975.7
1783.2
1549.1
1331.7
1159.0
1041.4
1038.3
1028.9
959.2
837.5
767.8
738.7
714.7
662.7
627.3
586.8
542.0
490.0
467.1
364.1
245.5
174.8
130.0
64.5
0.0

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