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: P955178

Luminaire Tested: **GALN-SB8A-950-U-T2U**

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:	P955178
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8A-950-U-T2U
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25571 lumens
Efficiency:	N/A
Efficacy:	112.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B4 - U0 - G4
Input Watts (W):	227.1
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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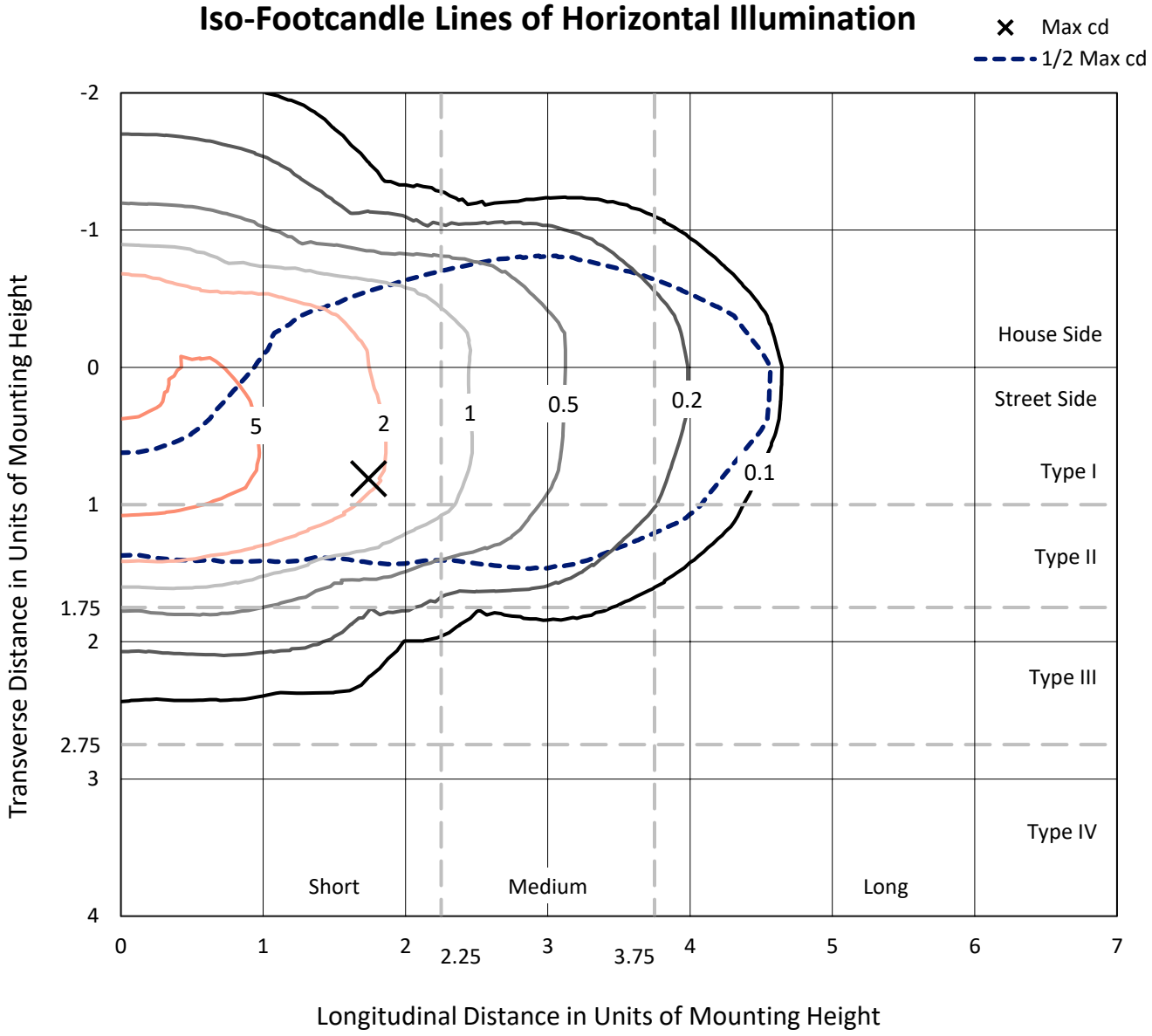
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type II - Short - N/A

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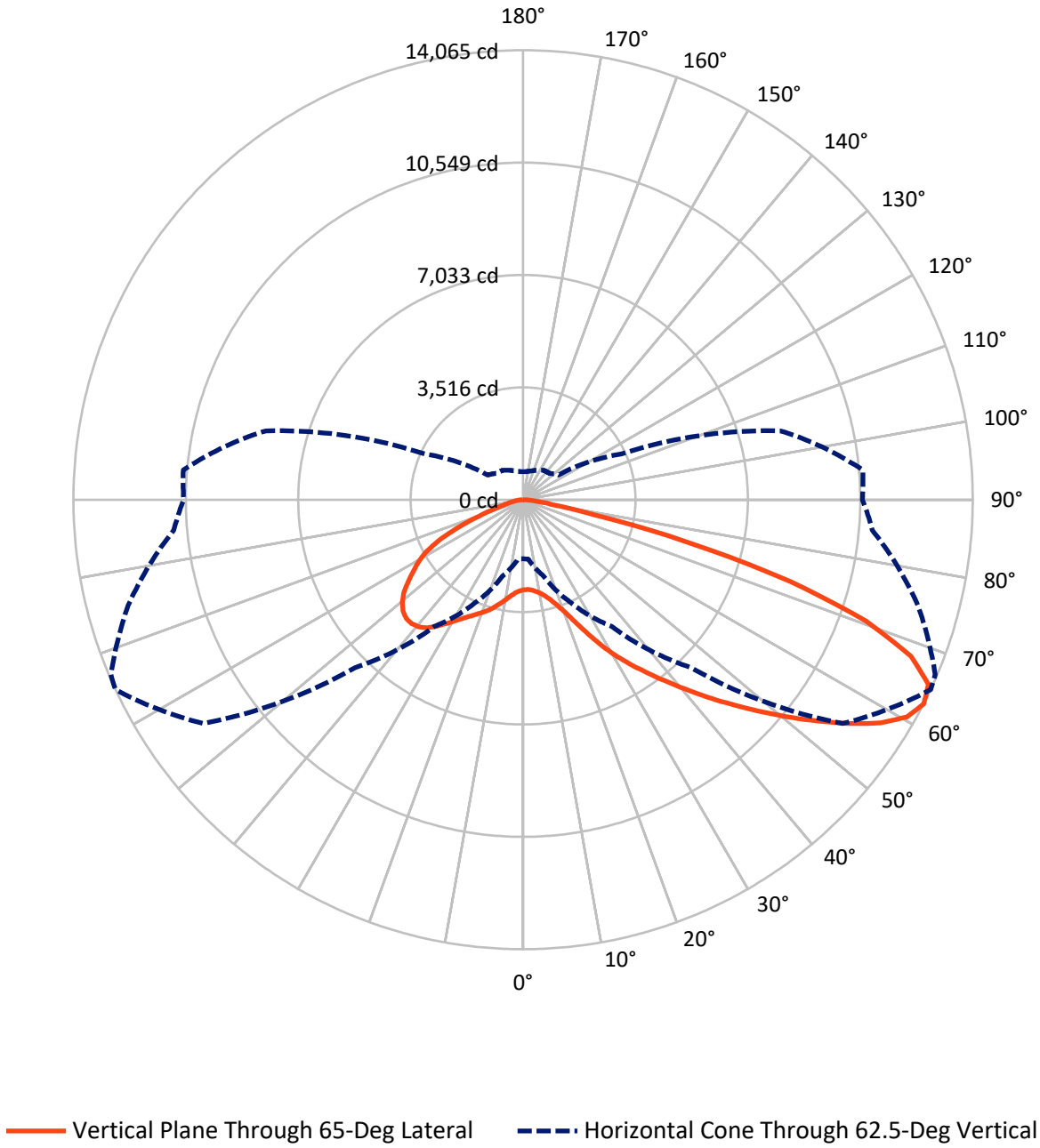
Luminous Intensity Polar Plot



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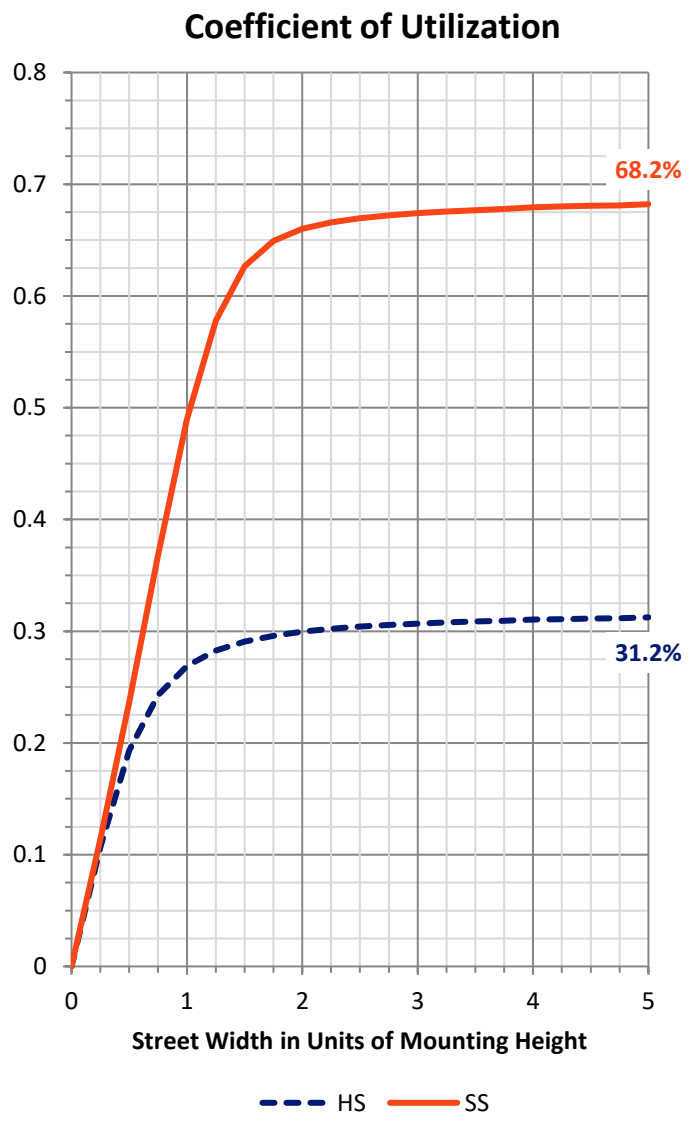
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8069.1	0.0	8069.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	17501.9	0.0	17501.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	25571.0	0.0	25571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.1
10°-20°	952.7	3.7
20°-30°	1931.6	7.6
30°-40°	3342.7	13.1
40°-50°	5058.5	19.8
50°-60°	5930.7	23.2
60°-70°	4972.2	19.4
70°-80°	2745.1	10.7
80°-90°	356.6	1.4
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°	25571.0	100.0
0°-180°	25571.0	100.0



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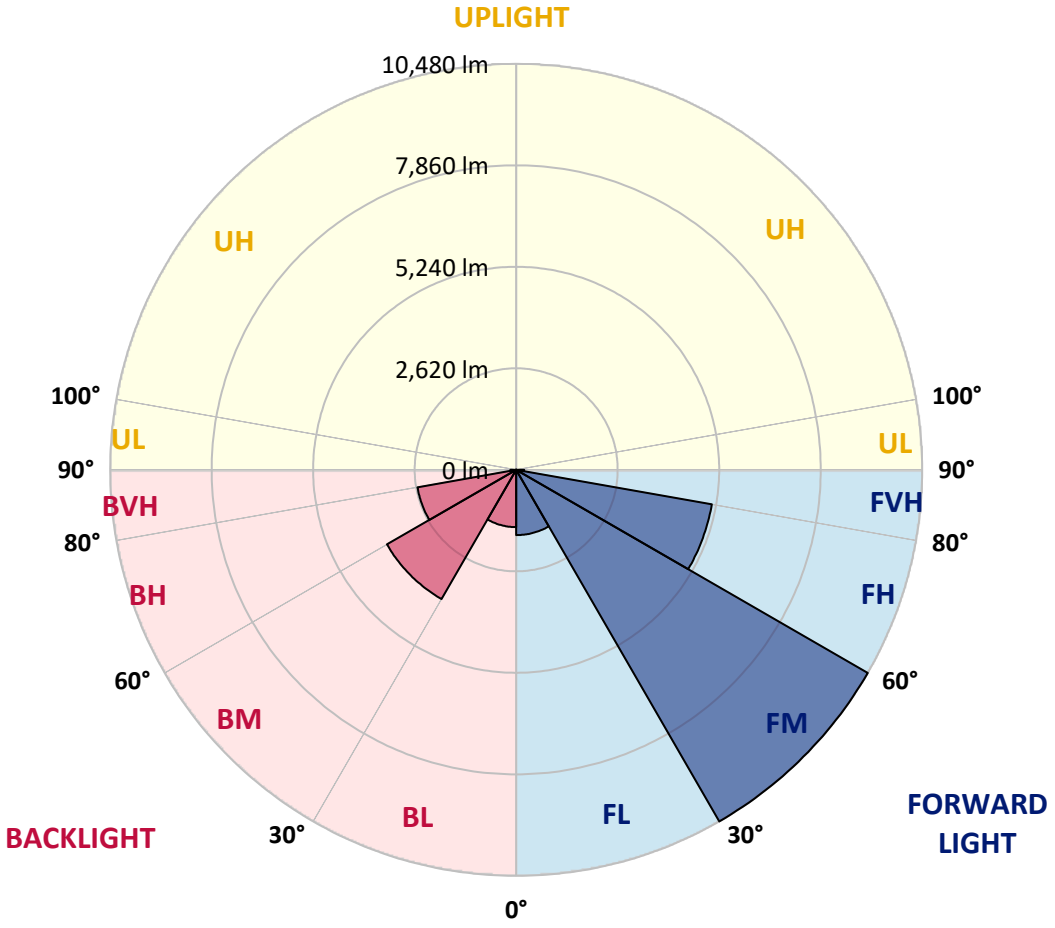
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1685.5	6.6			
FM	(30°-60°)	10479.8	41.0			
FH	(60°-80°)	5128.8	20.1			G3/7500
FVH	(80°-90°)	207.8	0.8			G2/225
BL	(0°-30°)	1479.8	5.8	B3/2500		
BM	(30°-60°)	3852.1	15.1	B3/5000		
BH	(60°-80°)	2588.5	10.1	B4/5000		G4/5000
BVH	(80°-90°)	148.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	*2817.8*	2817.8	2817.8
2.5°	2799.2	2791.3	2797.9	2797.9	2800.6	2799.2	2808.5	*2811.2*	2815.2	2823.1
5°	2771.4	2770.1	2782.0	2792.6	2803.2	2812.5	2824.4	*2841.7*	2844.3	2853.6
7.5°	2762.1	2754.1	2772.7	2786.0	2811.2	2833.7	2865.6	*2894.8*	2906.7	2910.7
10°	2833.7	2820.5	2837.7	2845.7	2866.9	2889.5	2926.6	*2973.0*	2986.3	3002.2
12.5°	2955.8	2941.2	2966.4	2978.3	2998.2	3018.1	3043.3	*3088.5*	3095.1	3124.3
15°	3122.9	3105.7	3121.6	3136.2	3169.4	3187.9	3213.2	*3256.9*	3256.9	3279.5
17.5°	3349.8	3327.2	3339.2	3344.5	3365.7	3393.6	3436.0	*3474.5*	3494.4	3486.4
20°	3688.1	3660.2	3660.2	3633.7	3625.7	3648.3	3704.0	*3757.1*	3778.3	3737.2
22.5°	4196.2	4156.4	4133.9	4043.6	4007.8	4010.5	4066.2	*4131.2*	4148.4	4075.5
25°	4842.3	4779.9	4749.4	4616.8	4535.8	4465.5	4509.3	*4592.9*	4616.8	4526.5
27.5°	5488.4	5492.3	5463.2	5304.0	5170.0	5041.3	5018.7	*5106.3*	5131.5	5029.3
30°	6394.5	6300.3	6244.6	6053.5	5862.5	5682.1	5589.2	*5625.0*	5631.6	5509.6
32.5°	7175.9	7152.0	7032.6	6865.4	6620.0	6337.4	6182.2	*6125.2*	6114.5	5940.8
35°	8066.1	8052.8	7926.8	7727.8	7462.4	7069.7	6789.8	*6626.6*	6613.4	6369.3
37.5°	8970.8	8970.8	8847.5	8629.9	8355.3	7864.4	7438.5	*7179.9*	7137.4	6819.0
40°	9692.5	9648.8	9671.3	9579.8	9265.4	8744.0	8158.9	*7783.5*	7726.4	7344.4
42.5°	10102.5	10087.9	10223.2	10325.3	10196.7	9780.1	8952.3	*8437.5*	8357.9	7922.8
45°	10194.0	10178.1	10419.5	10793.7	10974.1	10802.9	9814.6	*9126.1*	9029.2	8527.7
47.5°	9983.1	9951.2	10305.4	10895.8	11474.2	11775.4	10748.6	*9873.0*	9732.3	9116.8
50°	9348.9	9318.4	9854.4	10638.4	11642.7	12436.1	11762.1	*10665.0*	10450.1	9748.3
52.5°	7970.5	7985.1	8824.9	9902.1	11421.2	12847.3	12635.1	*11499.4*	11240.7	10394.3
55°	6208.7	6240.6	7272.7	8458.7	10535.0	12785.0	13230.7	*12359.1*	12101.7	11001.9
57.5°	4445.6	4586.2	5553.4	6727.5	8832.9	11796.6	13360.7	*13176.3*	12926.9	11665.3
60°	2881.5	2906.7	3901.7	5085.1	6726.1	10040.1	13096.7	*13795.9*	13600.9	12341.9
62.5°	*1846.7*	*1863.9*	*2470.2*	*3556.8*	*4841.0*	*7427.9*	*12207.9*	*14065.2*	*14005.5*	*12788.9*
65°	1357.2	1343.9	1659.6	2350.8	3260.9	4580.9	10481.9	*13935.2*	14053.2	13068.9
67.5°	1133.0	1114.4	1269.6	1627.8	2402.6	2601.6	7755.6	*13090.1*	13522.6	13037.0
70°	1032.1	1016.2	1110.4	1208.6	1874.6	1741.9	3909.6	*11380.0*	12046.0	12674.9
72.5°	874.3	846.4	975.1	1073.3	1458.0	1335.9	1615.9	*8741.3*	9553.2	11514.0
75°	677.9	659.3	769.5	944.6	1095.8	1042.8	1021.5	*5307.9*	6194.1	8904.5
77.5°	537.3	512.1	612.9	736.3	985.7	786.7	744.3	*2285.8*	3164.1	5684.7
80°	404.6	382.1	465.7	582.4	757.5	593.0	481.6	*932.6*	1192.7	2880.2
82.5°	287.9	268.0	325.0	427.2	509.4	532.0	295.8	*522.7*	587.7	1110.4
85°	184.4	172.5	217.6	268.0	323.7	342.3	180.4	*273.3*	299.8	457.7
87.5°	100.8	82.3	116.7	124.7	149.9	136.6	86.2	*99.5*	107.5	165.8
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°
2817.8	0°	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8
2823.1	2.5°	2828.4	2832.4	2845.7	2849.7	2858.9	2870.9	2878.8	2886.8	2886.8	2894.8
2865.6	5°	2866.9	2876.2	2904.0	2918.6	2942.5	2966.4	2981.0	2998.2	3008.9	3014.2
2933.2	7.5°	2941.2	2955.8	2995.6	3020.8	3061.9	3095.1	3117.6	3141.5	3146.8	3161.4
3027.4	10°	3042.0	3059.3	3104.4	3152.1	3201.2	3242.3	3263.6	3280.8	3287.4	3290.1
3148.2	12.5°	3157.4	3182.6	3241.0	3299.4	3351.1	3386.9	3392.3	3388.3	3369.7	3353.8
3296.7	15°	3299.4	3321.9	3386.9	3450.6	3501.0	3507.7	3474.5	3453.3	3430.7	3426.7
3462.6	17.5°	3469.2	3481.1	3540.8	3603.2	3607.2	3584.6	3535.5	3515.6	3494.4	3479.8
3678.8	20°	3666.9	3662.9	3705.3	3731.9	3704.0	3635.0	3560.7	3527.6	3506.3	3489.1
3944.1	22.5°	3903.0	3872.5	3867.2	3860.6	3786.3	3641.7	3540.8	3498.4	3465.2	3441.3
4314.3	25°	4246.6	4129.9	4048.9	4003.8	3836.7	3605.8	3477.2	3383.0	3320.6	3279.5
4766.7	27.5°	4676.5	4480.1	4275.8	4165.7	3836.7	3532.9	3323.3	3170.7	3068.6	3026.1
5204.5	30°	5086.4	4880.8	4579.6	4360.7	3827.4	3413.5	3075.2	2862.9	2743.5	2701.1
5578.6	32.5°	5436.6	5212.4	4902.0	4574.3	3804.8	3219.8	2767.4	2532.6	2417.2	2366.8
5948.7	35°	5761.7	5522.9	5225.7	4809.1	3745.1	2935.9	2429.1	2250.0	2121.3	2040.4
6325.5	37.5°	6094.6	5810.7	5532.1	5021.4	3637.7	2604.2	2169.1	2016.5	1865.3	1756.5
6726.1	40°	6456.8	6117.2	5859.8	5147.4	3461.2	2288.5	1967.4	1828.1	1667.6	1552.2
7187.8	42.5°	6880.0	6484.7	6224.7	5212.4	3219.8	2064.3	1836.1	1699.4	1548.2	1454.0
7682.7	45°	7321.8	6889.3	6557.7	5211.1	2950.5	1959.5	1793.6	1658.3	1491.2	1393.0
8190.8	47.5°	7784.8	7312.5	6845.5	5126.2	2717.0	1974.1	1769.8	1569.4	1385.0	1289.5
8704.2	50°	8249.1	7775.5	7124.1	4967.0	2617.5	1942.2	1680.9	1444.7	1227.2	1140.9
9185.8	52.5°	8709.5	8267.7	7364.3	4740.1	2516.7	1824.1	1566.8	1282.9	1162.1	1102.4
9683.2	55°	9172.5	8754.6	7625.6	4409.8	2264.6	1686.2	1375.7	1221.8	1110.4	1056.0
10170.1	57.5°	9636.8	9317.1	7873.7	4079.5	1947.5	1516.4	1270.9	1147.6	1058.7	1012.2
10577.4	60°	10119.7	9960.5	8129.7	3775.7	1634.4	1298.8	1194.0	1087.9	997.6	945.9
10968.8	62.5°	*10617.2*	*10669.0*	*8330.1*	*3384.3*	*1346.6*	*1166.1*	*1125.0*	*1016.2*	*928.7*	*879.6*
11292.5	65°	11118.7	11352.2	8461.4	2841.7	1091.8	1040.1	1050.7	937.9	849.1	806.6
11530.0	67.5°	11496.8	11844.4	8424.3	2150.5	895.5	920.7	957.8	855.7	772.1	738.9
11491.5	70°	11539.2	11786.0	8058.1	1472.6	749.6	804.0	854.4	774.8	688.5	664.7
10950.2	72.5°	10974.1	10990.0	7037.9	961.8	634.1	705.8	745.6	692.5	608.9	585.1
9579.8	75°	9492.2	9088.9	5167.3	634.1	530.7	606.3	643.4	606.3	525.4	530.7
7167.9	77.5°	7191.8	6436.9	3137.5	451.1	443.1	509.4	559.8	533.3	464.3	521.4
3604.5	80°	3705.3	3482.5	1399.6	337.0	350.2	407.3	460.3	425.9	367.5	350.2
805.3	82.5°	849.1	987.0	551.9	241.5	253.4	293.2	351.6	319.7	264.0	222.9
335.6	85°	297.2	325.0	244.1	151.2	148.6	183.1	238.8	213.6	179.1	143.3
142.0	87.5°	94.2	123.4	91.5	61.0	63.7	82.3	110.1	100.8	83.6	54.4
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°
2817.8
2894.8
3016.8
3156.1
3283.5
3353.8
3426.7
3481.1
3490.4
3449.3
3295.4
3047.3
2726.3
2392.0
2066.9
1785.7
1574.7
1472.6
1408.9
1302.8
1146.2
1102.4
1050.7
1004.3
941.9
878.2
805.3
740.3
666.0
583.7
512.1
459.0
319.7
220.2
151.2
57.0
0.0

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