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: P955119

Luminaire Tested: **GALN-SB8A-930-U-T4W**

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:	P955119
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8A-930-U-T4W
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	25184 lumens
Efficiency:	N/A
Efficacy:	110.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - 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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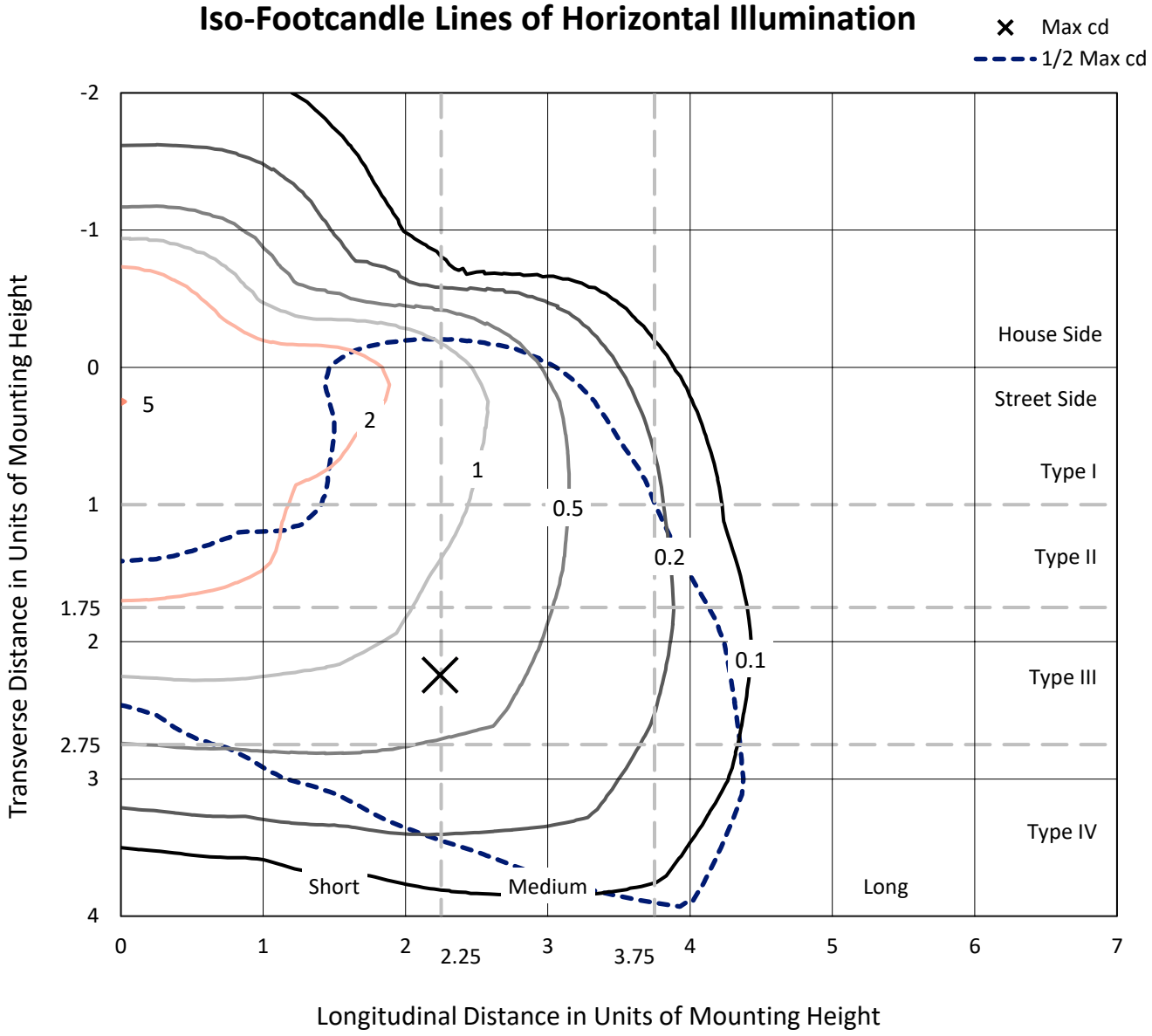
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type IV - Short - N/A

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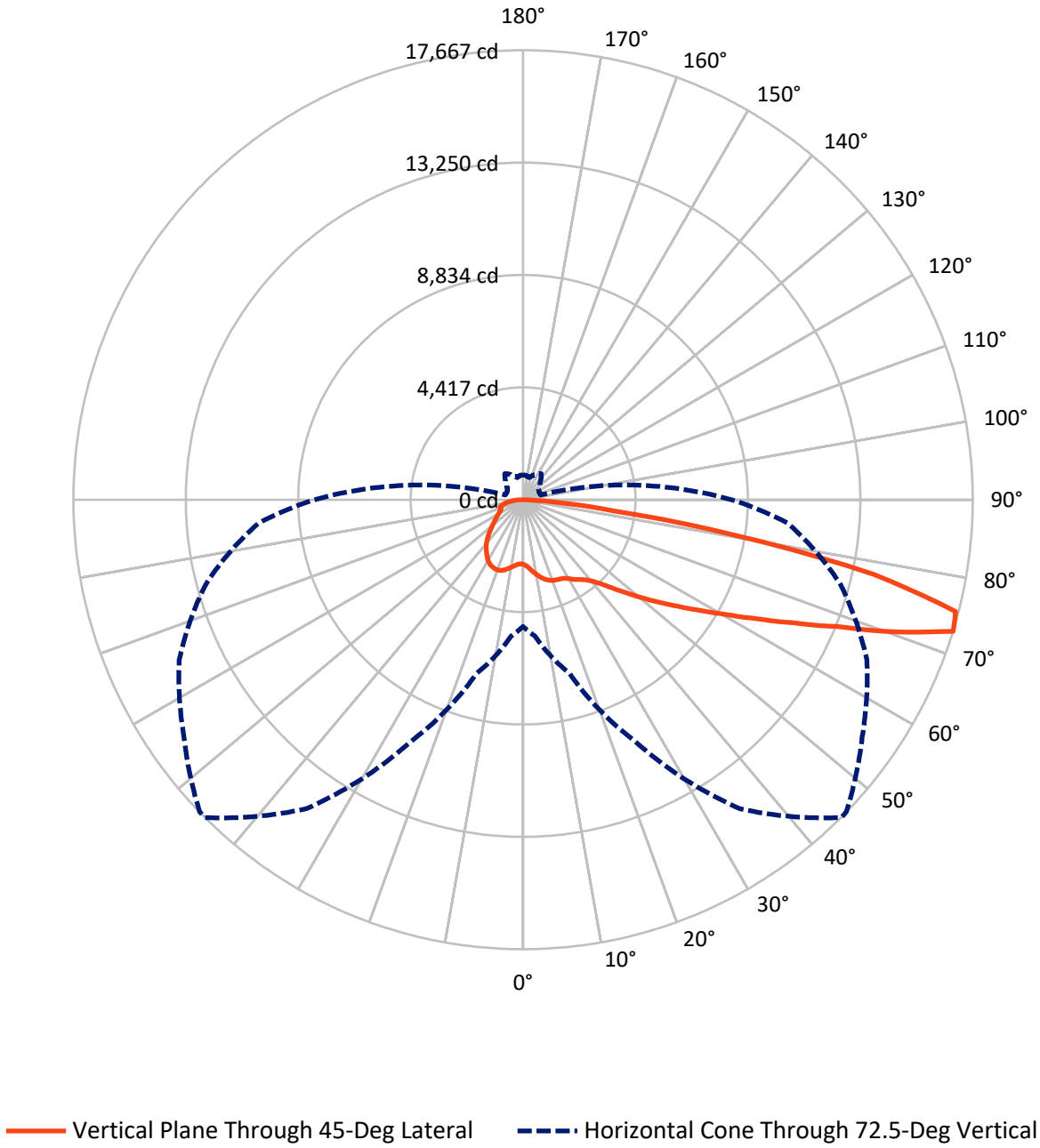
Luminous Intensity Polar Plot



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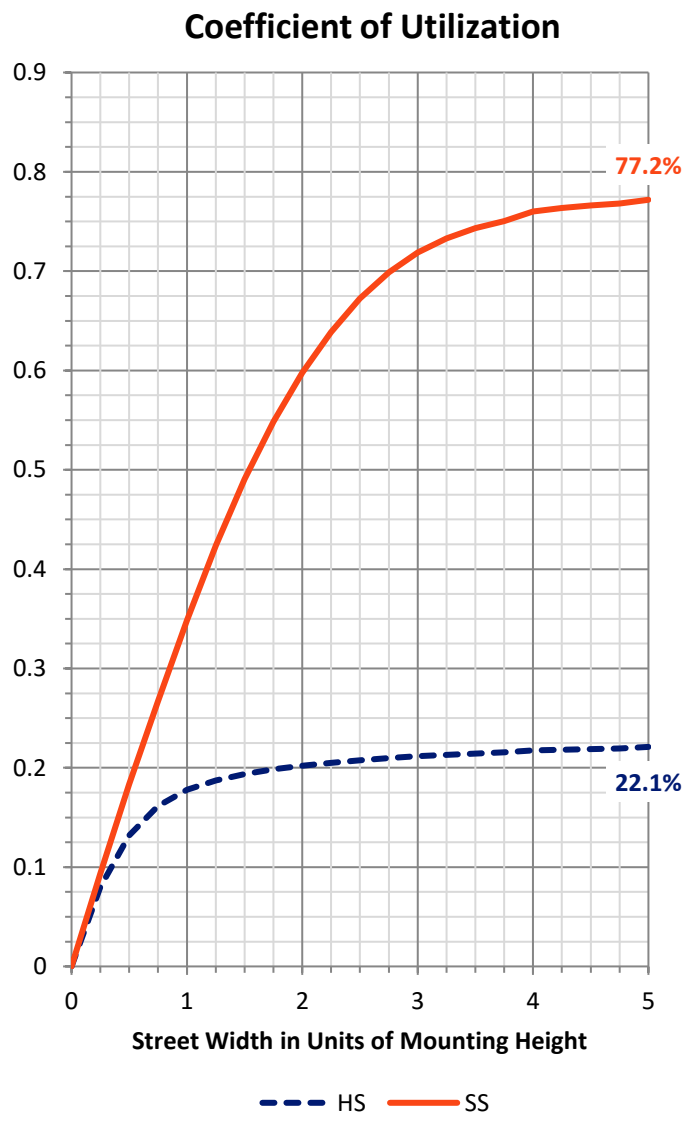
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5693.2	0.0	5693.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19490.8	0.0	19490.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	25184.0	0.0	25184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	1.0
10°-20°	862.1	3.4
20°-30°	1499.7	6.0
30°-40°	2150.0	8.5
40°-50°	3027.3	12.0
50°-60°	4636.9	18.4
60°-70°	6717.2	26.7
70°-80°	5364.1	21.3
80°-90°	668.1	2.7
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°	25184.0	100.0
0°-180°	25184.0	100.0



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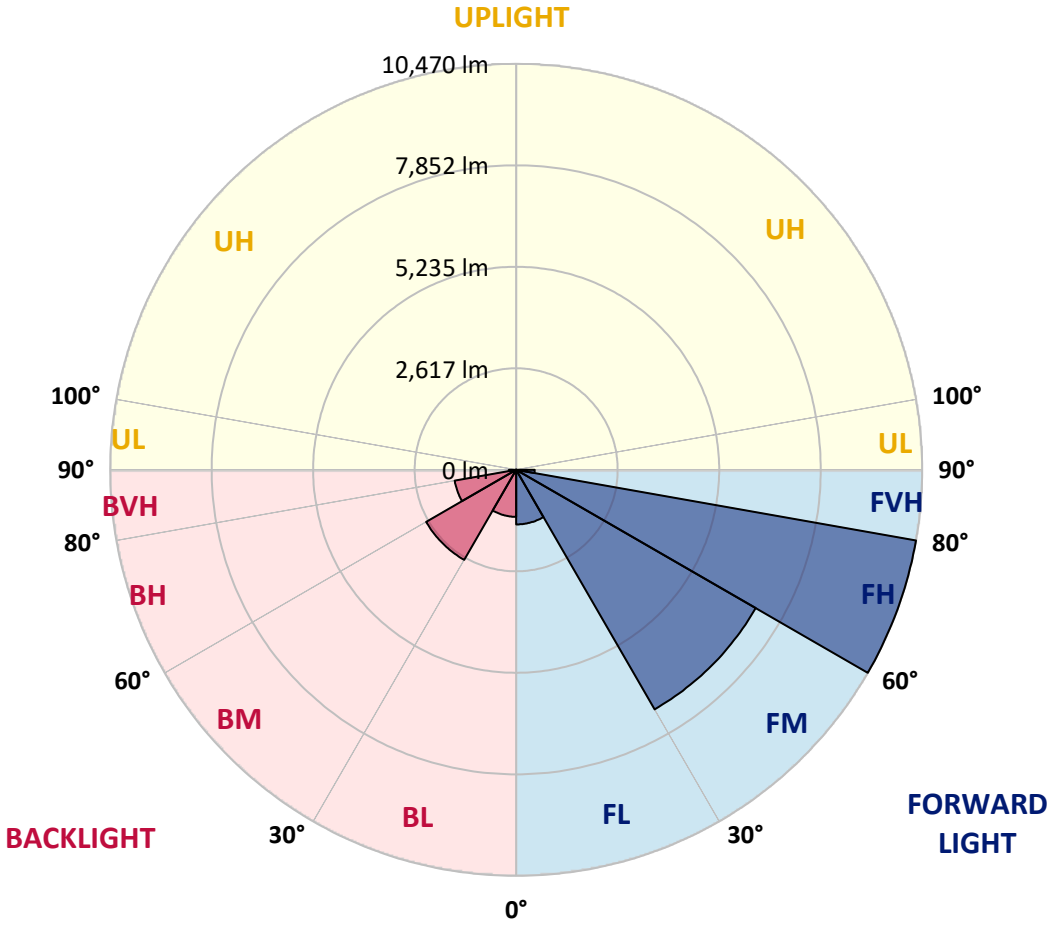
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1408.3	5.6			
FM	(30°-60°)	7133.4	28.3			
FH	(60°-80°)	10469.7	41.6			G4/12000
FVH	(80°-90°)	479.3	1.9			G3/500
BL	(0°-30°)	1212.1	4.8	B3/2500		
BM	(30°-60°)	2680.7	10.6	B3/5000		
BH	(60°-80°)	1611.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	188.8	0.7			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°	45°	46°	55°	65°	75°
0°	2540.6	2540.6	2540.6	2540.6	2540.6	*2540.6*	2540.6	2540.6	2540.6	2540.6
2.5°	2640.1	2657.3	2641.4	2626.8	2620.2	*2602.9*	2601.6	2591.0	2584.4	2565.8
5°	2824.5	2847.0	2820.5	2791.3	2764.8	*2722.3*	2717.0	2686.5	2652.0	2612.2
7.5°	3032.8	3052.7	3022.2	2978.4	2931.9	*2861.6*	2860.3	2804.6	2750.2	2682.5
10°	3214.5	3241.1	3199.9	3140.2	3081.9	*3002.3*	2993.0	2929.3	2860.3	2772.7
12.5°	3375.1	3393.6	3353.8	3280.9	3213.2	*3133.6*	3121.7	3051.3	2974.4	2874.9
15°	3502.4	3526.3	3473.2	3395.0	3323.3	*3245.0*	3234.4	3170.7	3093.8	2989.0
17.5°	3586.0	3605.9	3551.5	3463.9	3395.0	*3329.9*	3322.0	3268.9	3201.3	3095.1
20°	3617.8	3639.1	3582.0	3493.1	3429.4	*3379.0*	3375.1	3336.6	3290.1	3193.3
22.5°	3649.7	3669.6	3595.3	3502.4	3446.7	*3414.9*	3413.5	3388.3	3369.7	3290.1
25°	3778.4	3783.7	3684.2	3550.2	3470.6	*3442.7*	3441.4	3440.1	3448.0	3385.7
27.5°	3889.8	3888.5	3803.6	3677.5	3554.2	*3495.8*	3494.5	3507.7	3532.9	3481.2
30°	4053.0	4038.4	3937.6	3806.2	3693.5	*3603.2*	3595.3	3583.3	3603.2	3562.1
32.5°	4399.2	4352.8	4189.6	3956.1	3808.9	*3739.9*	3729.3	3655.0	3662.9	3637.7
35°	4895.4	4834.4	4616.8	4240.0	3952.2	*3854.0*	3848.7	3754.5	3738.6	3716.0
37.5°	5485.8	5410.2	5156.8	4651.3	4198.9	*3986.6*	3978.7	3893.8	3828.8	3804.9
40°	6078.8	5983.3	5773.7	5152.8	4562.4	*4208.2*	4183.0	4054.3	3980.0	3940.2
42.5°	6654.6	6575.0	6395.9	5715.3	5010.8	*4531.9*	4476.2	4256.0	4200.2	4163.1
45°	7164.0	7092.4	6961.0	6316.3	5536.2	*4972.4*	4918.0	4558.4	4541.2	4541.2
47.5°	7577.9	7562.0	7422.7	6929.2	6155.8	*5473.8*	5379.7	4979.0	5025.4	5097.1
50°	8037.0	7993.2	7844.6	7532.8	6884.1	*6048.3*	5971.3	5495.1	5668.9	5865.2
52.5°	8458.9	8482.7	8316.9	8161.7	7706.6	*6689.1*	6553.8	6104.0	6479.5	6804.5
55°	8892.7	8894.0	8847.6	8826.3	8569.0	*7397.5*	7248.9	6836.3	7433.3	7836.6
57.5°	9300.0	9302.6	9371.6	9558.7	9569.3	*8214.7*	8046.3	7735.8	8493.3	8904.6
60°	9663.5	9682.0	9870.4	10308.2	10448.9	*9151.4*	8992.2	8798.5	9589.2	10003.1
62.5°	9785.5	9853.2	10272.4	10894.6	11317.8	*10300.3*	10143.7	10028.3	10740.7	11125.5
65°	9578.6	9733.8	10544.4	11378.9	12212.0	*11665.4*	11510.2	11384.2	11937.4	12299.6
67.5°	9070.5	9270.8	10528.5	11887.0	13297.2	*13307.8*	13163.2	12867.4	13220.3	13359.6
70°	7731.8	8031.7	9601.1	12076.7	14543.0	*15553.9*	15414.6	14653.1	14500.5	13826.6
72.5°	*4981.7*	*5385.0*	*7069.8*	*10515.2*	*14820.2*	*17667.3*	*17659.3*	*16265.0*	*14905.2*	*12919.1*
75°	1817.5	2064.3	3284.8	6600.2	12440.2	*17559.8*	17611.6	15989.0	13606.3	9979.2
77.5°	662.0	724.4	1072.0	2536.6	7650.9	*14089.2*	14196.7	12782.5	9684.7	5008.2
80°	347.6	382.1	549.2	984.4	3278.2	*8367.3*	8535.8	7596.5	4551.8	1508.4
82.5°	192.4	208.3	307.8	534.6	1476.6	*3578.0*	3678.9	3000.9	1601.3	639.5
85°	103.5	110.1	144.6	291.9	721.7	*1240.4*	1268.3	896.8	638.1	375.4
87.5°	30.5	37.1	47.8	92.9	282.6	*278.6*	285.2	177.8	252.1	189.7
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°
2540.6	0°	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6	2540.6
2560.5	2.5°	2552.5	2548.5	2533.9	2527.3	2519.3	2518.0	2524.7	2526.0	2527.3	2528.6
2589.7	5°	2576.4	2563.1	2549.9	2541.9	2544.6	2545.9	2559.1	2568.4	2575.1	2580.4
2644.1	7.5°	2622.8	2612.2	2589.7	2588.3	2592.3	2604.3	2621.5	2642.7	2654.7	2664.0
2714.4	10°	2691.8	2671.9	2645.4	2649.4	2657.3	2674.6	2710.4	2727.6	2747.5	2764.8
2800.6	12.5°	2762.1	2744.9	2714.4	2717.0	2730.3	2760.8	2795.3	2816.5	2829.8	2843.1
2893.5	15°	2853.7	2823.2	2790.0	2790.0	2813.9	2847.0	2863.0	2880.2	2888.2	2902.8
2993.0	17.5°	2947.9	2908.1	2864.3	2861.6	2890.8	2906.7	2916.0	2918.7	2921.3	2937.3
3089.8	20°	3042.1	2998.3	2935.9	2930.6	2937.3	2934.6	2933.3	2930.6	2934.6	2954.5
3189.3	22.5°	3134.9	3084.5	2998.3	2974.4	2955.8	2930.6	2929.3	2928.0	2930.6	2950.5
3296.8	25°	3243.7	3182.7	3067.3	2995.6	2933.3	2898.8	2902.8	2904.1	2906.7	2922.7
3408.2	27.5°	3361.8	3294.1	3130.9	2989.0	2876.2	2852.3	2845.7	2849.7	2859.0	2884.2
3519.7	30°	3479.9	3400.3	3189.3	2962.5	2804.6	2771.4	2750.2	2759.5	2788.7	2813.9
3616.5	32.5°	3587.3	3507.7	3235.8	2904.1	2713.0	2661.3	2633.4	2645.4	2674.6	2683.9
3724.0	35°	3713.4	3623.1	3255.7	2811.2	2613.5	2533.9	2496.8	2479.5	2494.1	2484.9
3850.0	37.5°	3854.0	3759.8	3253.0	2689.2	2496.8	2405.3	2353.5	2288.5	2258.0	2226.2
4035.7	40°	4062.3	3926.9	3221.2	2541.9	2352.2	2268.6	2175.7	2065.6	1996.6	1934.3
4335.6	42.5°	4346.2	4159.1	3162.8	2380.0	2189.0	2110.7	1984.7	1856.0	1747.2	1643.7
4790.6	45°	4769.4	4462.9	3089.8	2207.6	2012.6	1935.6	1799.0	1654.4	1531.0	1398.3
5436.7	47.5°	5379.7	4871.5	3020.8	2011.2	1826.8	1756.5	1633.1	1499.1	1353.2	1224.5
6370.7	50°	6218.1	5457.9	2957.2	1820.2	1643.7	1590.7	1492.5	1355.9	1208.6	1105.1
7465.2	52.5°	7284.8	6255.3	2930.6	1635.8	1472.6	1452.7	1374.4	1247.1	1107.8	1020.2
8741.4	55°	8509.3	7209.1	2930.6	1459.3	1322.7	1329.3	1274.9	1156.9	1036.1	957.9
10057.5	57.5°	9759.0	8174.9	2877.5	1296.2	1195.3	1223.2	1188.7	1085.2	976.4	895.5
11441.2	60°	10910.5	8984.2	2662.6	1147.6	1082.6	1126.3	1103.8	1014.9	882.2	814.6
12598.1	62.5°	11795.4	9440.6	2248.7	1029.5	989.7	1040.1	1028.2	922.0	865.0	837.1
13548.0	65°	12238.5	9366.3	1719.4	924.7	911.4	989.7	964.5	960.5	915.4	883.6
13857.1	67.5°	11966.6	8726.8	1247.1	847.7	866.3	943.3	1040.1	1056.0	972.5	910.1
12986.8	70°	10773.9	7570.0	928.7	774.8	809.3	944.6	1186.0	1105.1	953.9	880.9
10415.7	72.5°	*8196.2*	*5645.0*	*720.4*	*697.8*	*735.0*	*951.2*	*1251.1*	*1082.6*	*900.8*	*973.8*
6488.7	75°	4687.1	3099.1	578.4	603.6	642.1	888.9	1217.9	1024.2	859.7	894.2
2571.1	77.5°	1787.0	1191.4	477.6	510.8	516.1	776.1	1164.8	1020.2	818.6	798.7
770.8	80°	619.6	465.7	395.3	406.0	399.3	689.9	1117.1	887.5	670.0	599.7
318.4	82.5°	253.4	232.2	313.1	299.8	283.9	536.0	902.1	725.7	547.9	484.2
153.9	85°	110.1	147.3	207.0	181.8	164.5	371.5	723.0	614.2	463.0	399.3
50.4	87.5°	22.6	55.7	87.6	82.3	84.9	248.1	513.4	436.5	327.7	245.4
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°
2540.6
2533.9
2583.0
2666.6
2760.8
2848.4
2908.1
2942.6
2962.5
2963.8
2943.9
2909.4
2841.7
2717.0
2514.0
2246.1
1938.3
1634.5
1382.4
1209.9
1098.5
1013.6
949.9
882.2
804.0
827.8
872.9
899.5
869.0
965.8
894.2
728.3
579.8
478.9
398.0
192.4
0.0

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