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: P956472

Luminaire Tested: **GALN-SB9A-840-U-SL3**

Issue Date: 1/21/2025

Report Generated By 670246001

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1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P956472
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9A-840-U-SL3
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	38196 lumens
Efficiency:	N/A
Efficacy:	149.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B3 - U0 - G5
Input Watts (W):	255.5
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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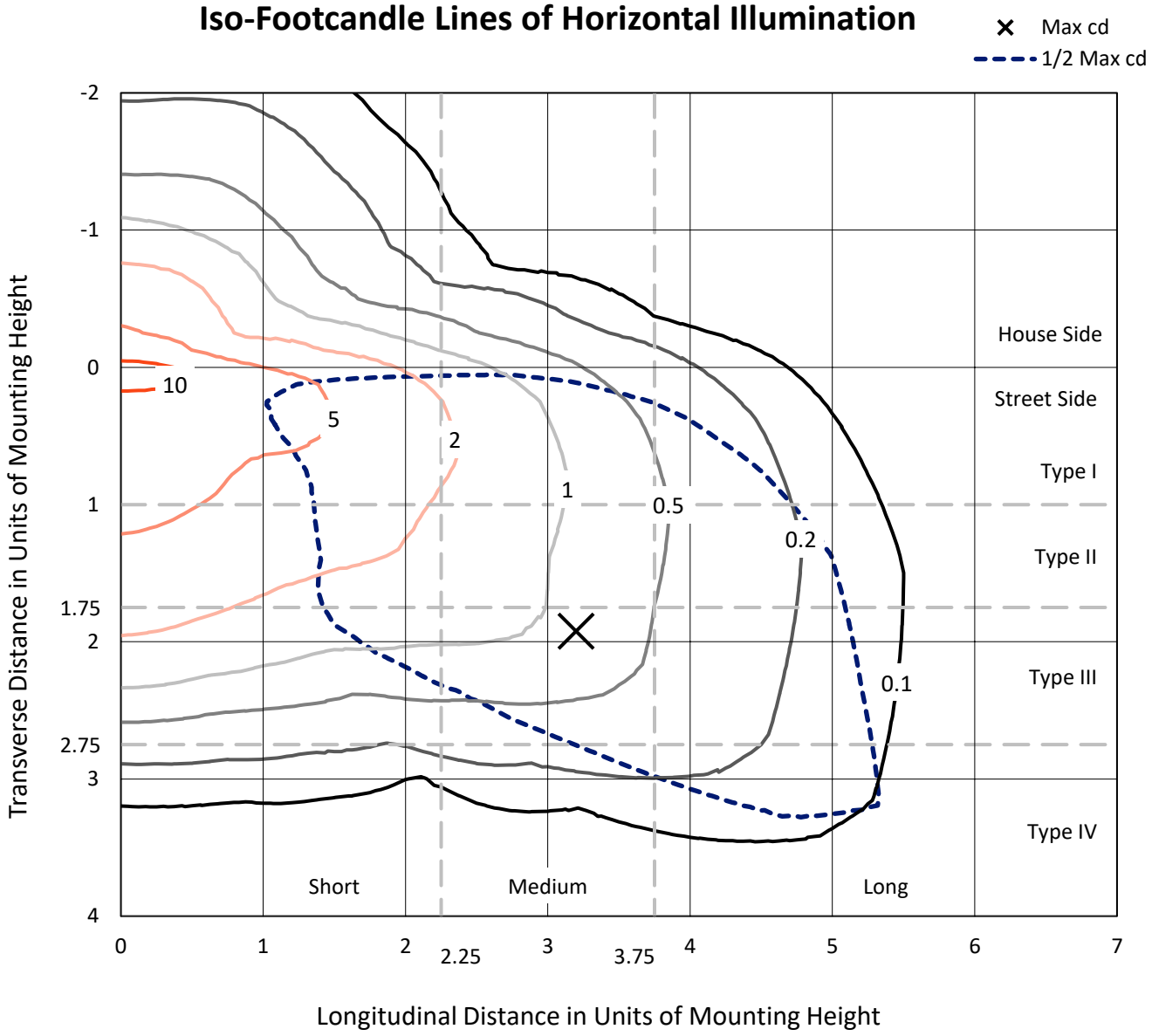
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type IV - Medium - N/A

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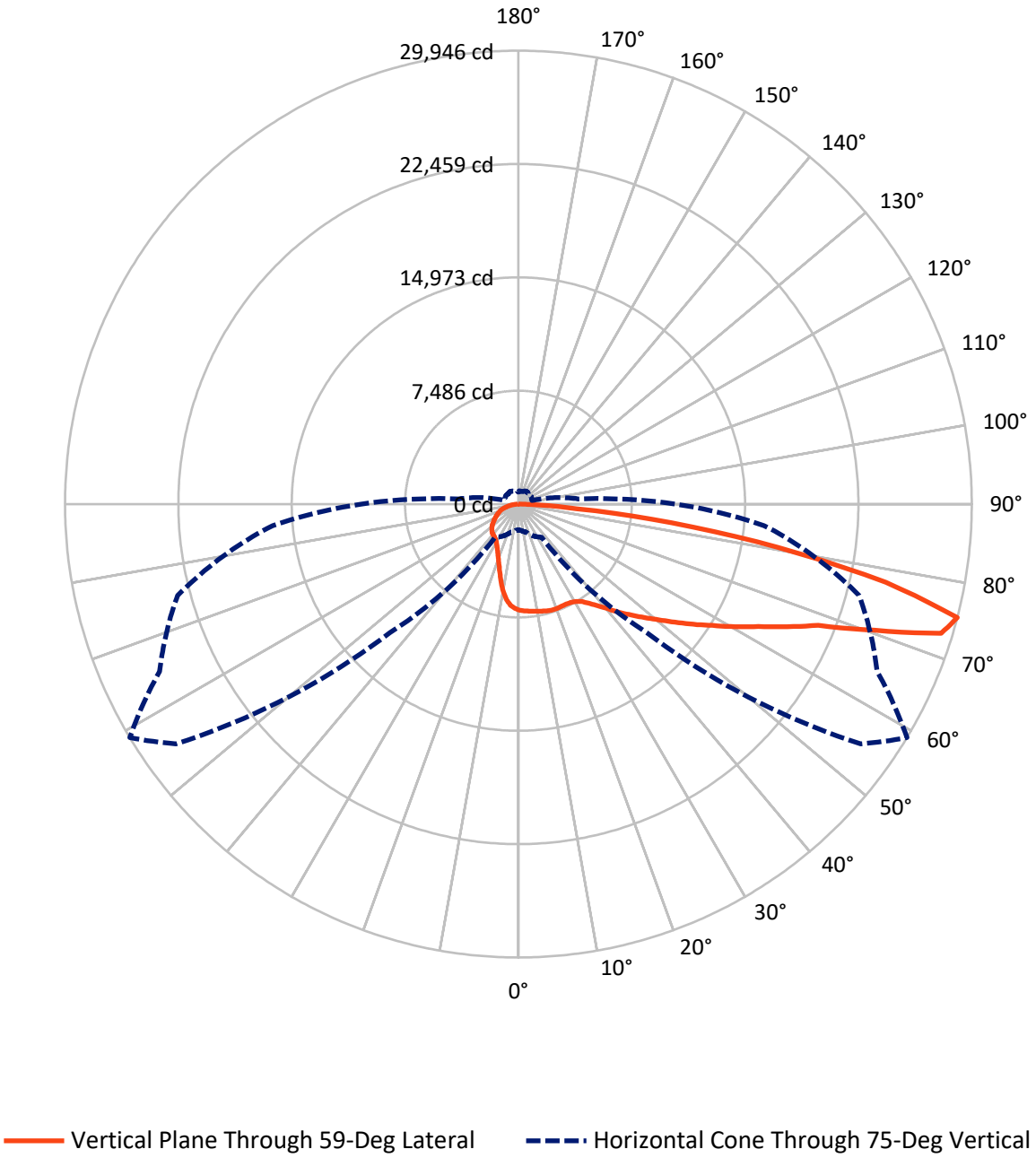
Luminous Intensity Polar Plot



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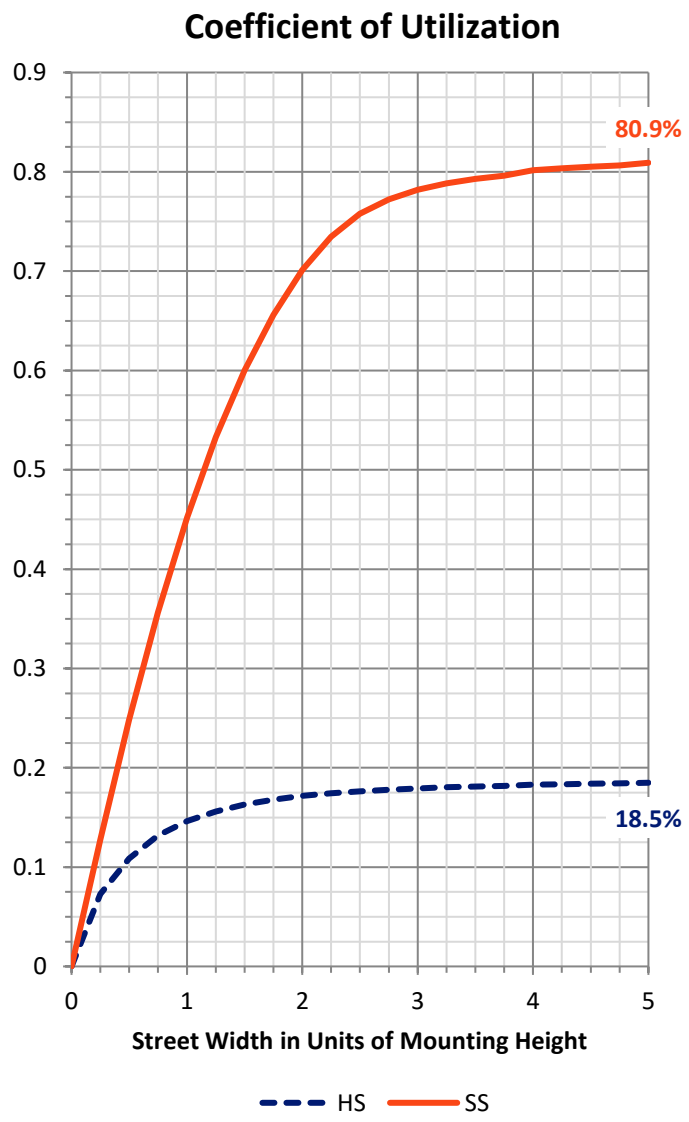
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7163.9	0.0	7163.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31032.1	0.0	31032.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	38196.0	0.0	38196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.6	1.6
10°-20°	1606.8	4.2
20°-30°	2440.6	6.4
30°-40°	3627.9	9.5
40°-50°	5395.4	14.1
50°-60°	7323.6	19.2
60°-70°	8940.9	23.4
70°-80°	7016.7	18.4
80°-90°	1215.5	3.2
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°	38196.0	100.0
0°-180°	38196.0	100.0



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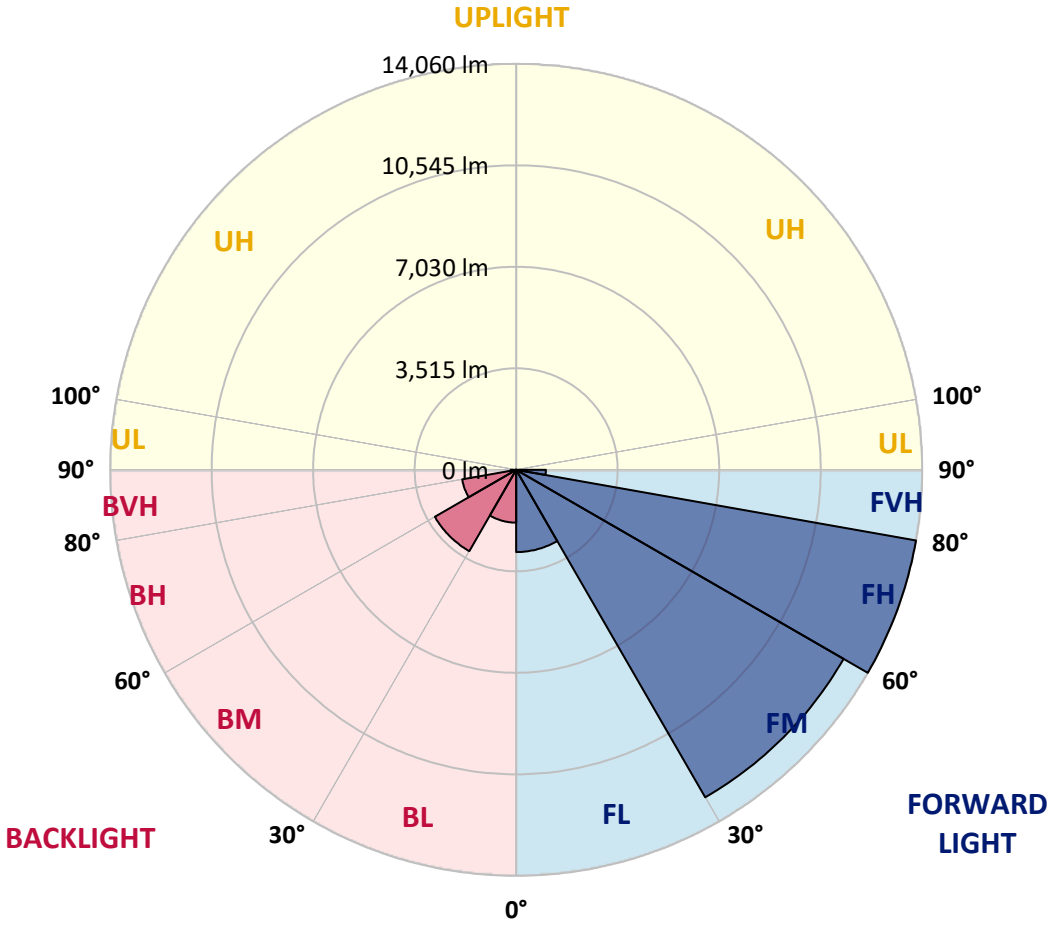
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2847.9	7.5			
FM	(30°-60°)	13095.2	34.3			
FH	(60°-80°)	14059.6	36.8			G5
FVH	(80°-90°)	1029.4	2.7			G5
BL	(0°-30°)	1828.2	4.8	B3/2500		
BM	(30°-60°)	3251.7	8.5	B3/5000		
BH	(60°-80°)	1898.0	5.0	B3/2500		G3/2500
BVH	(80°-90°)	186.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7010.8	7010.8	7010.8	7010.8	7010.8	7010.8	7010.8	*7010.8*	7010.8	7010.8
2.5°	7070.4	7045.7	7070.4	7060.1	7056.0	7047.8	7049.8	*7064.2*	7056.0	7066.3
5°	7023.1	7008.7	7033.4	7027.2	7053.9	7058.0	7084.8	*7101.2*	7111.5	7113.5
7.5°	6945.0	6930.7	6965.6	6994.4	7051.9	7068.3	7123.8	*7150.5*	7164.9	7189.6
10°	6659.4	6653.3	6739.6	6848.5	6984.1	7068.3	7152.6	*7197.8*	7220.4	7286.1
12.5°	6154.0	6162.2	6275.2	6484.8	6756.0	7027.2	7185.4	*7251.2*	7286.1	7368.3
15°	5671.1	5669.0	5792.3	6016.3	6396.4	6846.4	7201.9	*7314.9*	7374.5	7495.7
17.5°	5391.7	5383.4	5469.7	5640.3	5993.7	6569.0	7160.8	*7349.8*	7477.2	7629.3
20°	5340.3	5323.8	5369.0	5453.3	5704.0	6264.9	7053.9	*7349.8*	7559.4	7756.7
22.5°	5527.3	5500.6	5482.1	5471.8	5582.7	6014.2	6932.7	*7325.2*	7680.6	7939.5
25°	5903.3	5862.2	5767.7	5675.2	5642.3	5901.2	6825.9	*7319.0*	7861.5	8186.1
27.5°	6511.5	6460.1	6269.0	6047.1	5847.8	5958.8	6778.6	*7356.0*	8060.8	8447.1
30°	7265.6	7210.1	6969.7	6628.6	6271.1	6172.5	6838.2	*7464.9*	8315.6	8794.3
32.5°	7941.6	7879.9	7674.5	7327.2	6844.4	6542.3	7027.2	*7672.4*	8716.2	9277.2
35°	8541.6	8469.7	8284.7	7964.2	7547.1	7062.2	7368.3	*8040.2*	9285.4	10062.1
37.5°	9129.2	9045.0	8843.6	8504.6	8212.8	7754.6	7838.9	*8512.8*	10041.5	11015.5
40°	9786.8	9665.5	9421.0	9086.1	8802.5	8566.2	8457.3	*9092.2*	10810.0	12079.8
42.5°	10423.7	10308.7	10016.9	9731.3	9375.8	9308.0	9174.4	*9770.3*	11650.4	13249.0
45°	11110.0	10972.3	10618.9	10257.3	10033.3	9801.1	9868.9	*10448.4*	12474.4	14440.7
47.5°	11753.1	11599.0	11181.9	10779.2	10655.9	10216.2	10505.9	*11194.3*	13331.2	15648.9
50°	12100.4	11948.3	11601.1	11237.4	11140.8	10727.8	11196.3	*12014.1*	14229.1	16853.0
52.5°	12390.1	12225.7	11771.6	11570.3	11541.5	11284.7	12047.0	*12951.1*	15127.0	17917.4
55°	12698.3	12515.5	11936.0	11755.2	11886.7	11909.3	13055.9	*14013.4*	16076.3	18955.0
57.5°	13053.8	12821.6	12094.2	11911.4	12223.7	12640.8	14214.7	*15114.7*	17009.2	19916.6
60°	13388.7	13154.5	12398.3	12160.0	12587.4	13489.4	15544.1	*16448.2*	18065.3	20773.5
62.5°	13454.5	13261.3	12640.8	12638.7	13080.5	14479.8	17118.1	*17794.1*	18987.9	21620.0
65°	12316.1	12194.9	11827.1	12620.2	13787.3	15905.8	18870.8	*19516.0*	20161.2	22359.7
67.5°	9373.7	9390.2	9363.5	10894.3	13216.1	17954.4	21408.4	*21359.1*	21609.8	23189.9
70°	4286.2	4382.8	5011.5	7520.4	10588.1	18190.7	25604.2	*24965.2*	23428.2	24264.5
72.5°	2315.7	2389.7	2646.5	3643.1	6365.6	16172.9	28739.7	*29193.8*	25846.6	24987.8
75°	*1699.3*	*1740.4*	*1919.1*	*2315.7*	*2673.2*	*12020.3*	*27615.8*	*29945.9*	*26148.7*	*23300.8*
77.5°	1271.9	1290.4	1436.3	1834.9	1368.5	6336.8	22065.9	*24800.8*	22384.4	19144.1
80°	922.6	943.1	1052.0	1376.7	959.6	2317.8	15151.7	*17407.8*	15330.5	12203.1
82.5°	637.0	645.2	692.4	937.0	669.8	900.0	8597.1	*10208.0*	8558.0	4282.1
85°	384.2	394.5	415.1	546.6	380.1	427.4	3710.9	*3838.3*	2558.2	1023.3
87.5°	158.2	168.5	184.9	230.1	150.0	119.2	612.3	*768.5*	478.8	300.0
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°
7010.8	0°	7010.8	7010.8	7010.8	7010.8	7010.8	7010.8	7010.8	7010.8	7010.8	7010.8
7031.3	2.5°	7021.1	7006.7	6967.6	6914.2	6864.9	6803.3	6776.5	6753.9	6733.4	6694.4
7086.8	5°	7064.2	7025.2	6920.4	6784.8	6630.7	6462.2	6297.8	6184.8	6088.2	6016.3
7150.5	7.5°	7130.0	7056.0	6864.9	6587.5	6234.1	5872.5	5545.8	5313.6	5138.9	5075.2
7240.9	10°	7197.8	7109.4	6776.5	6287.5	5677.3	5120.4	4686.9	4448.5	4308.8	4263.6
7347.8	12.5°	7277.9	7148.5	6638.9	5870.4	5054.7	4444.4	4066.3	3926.6	3854.7	3830.0
7479.3	15°	7395.0	7181.3	6431.4	5348.5	4460.9	3951.3	3706.8	3610.2	3573.2	3571.1
7614.9	17.5°	7483.4	7187.5	6108.8	4789.6	4004.7	3653.3	3452.0	3415.0	3439.6	3476.6
7748.4	20°	7582.0	7132.0	5685.5	4280.0	3684.2	3392.4	3308.1	3332.8	3392.4	3445.8
7925.2	22.5°	7651.9	7031.3	5173.8	3883.5	3406.8	3242.4	3238.3	3289.6	3322.5	3349.2
8132.7	25°	7713.5	6860.8	4631.4	3550.6	3178.7	3152.0	3197.2	3180.7	3158.1	3180.7
8340.2	27.5°	7758.7	6591.6	4146.5	3258.8	3018.4	3090.3	3063.6	3026.6	3024.6	3036.9
8584.7	30°	7744.3	6232.0	3747.9	2981.4	2905.4	2975.3	2911.6	2905.4	2899.2	2905.4
8952.5	32.5°	7744.3	5823.1	3441.7	2790.3	2833.5	2806.8	2800.6	2786.2	2761.6	2759.5
9451.8	35°	7787.5	5414.3	3178.7	2687.6	2773.9	2710.2	2714.3	2679.4	2628.0	2603.4
10113.5	37.5°	7875.8	5085.5	2917.7	2638.3	2669.1	2667.1	2650.6	2591.0	2500.6	2422.5
10939.5	40°	8089.5	4988.9	2739.0	2615.7	2619.8	2644.5	2601.3	2486.2	2280.8	2153.4
11777.8	42.5°	8424.5	5151.2	2699.9	2560.2	2586.9	2611.6	2527.3	2260.2	2114.3	2038.3
12657.2	45°	8849.8	5434.8	2784.2	2480.1	2508.8	2552.0	2301.3	2173.9	2108.2	2110.2
13528.4	47.5°	9388.1	5732.7	2940.3	2410.2	2395.8	2420.5	2151.3	2073.2	1982.8	2005.4
14364.7	50°	10010.7	6034.8	3088.3	2315.7	2270.5	2190.4	2054.7	1980.8	1865.7	1812.3
15172.2	52.5°	10684.7	6326.6	3147.9	2200.6	2134.9	2042.4	1989.0	1898.6	1758.9	1670.5
15934.5	55°	11323.7	6591.6	3082.1	2063.0	1999.3	1927.4	1919.1	1863.7	1713.7	1590.4
16612.6	57.5°	11927.8	6813.5	2917.7	1923.2	1861.6	1818.4	1873.9	1847.2	1658.2	1500.0
17253.7	60°	12439.4	6965.6	2679.4	1781.5	1738.3	1715.7	1800.0	1791.7	1580.1	1403.4
17829.0	62.5°	12846.3	7025.2	2416.4	1645.9	1635.6	1594.5	1697.2	1697.2	1481.5	1308.9
18334.5	65°	13164.8	6967.6	2149.3	1512.3	1532.8	1471.2	1571.9	1559.6	1376.7	1224.6
18916.0	67.5°	13446.3	6778.6	1853.4	1380.8	1428.0	1350.0	1440.4	1411.6	1261.6	1140.4
19419.4	70°	13571.6	6338.9	1516.4	1249.3	1306.8	1230.8	1308.9	1255.4	1132.2	1050.0
18866.7	72.5°	12564.8	5268.4	1193.8	1111.6	1160.9	1099.3	1167.1	1105.5	992.4	955.5
16292.1	75°	*10395.0*	*3953.3*	*918.5*	*961.6*	*998.6*	*951.3*	*996.6*	*951.3*	*848.6*	*875.3*
12034.6	77.5°	7549.1	2669.1	702.7	803.4	819.8	795.2	834.2	782.9	690.4	684.2
5997.8	80°	3754.0	1563.7	550.7	634.9	628.8	612.3	657.5	632.9	554.8	587.7
1619.1	82.5°	1087.0	669.8	400.7	445.9	433.6	437.7	470.5	482.9	723.3	717.1
503.4	85°	341.1	263.0	240.4	248.6	236.3	242.5	277.4	550.7	509.6	297.9
156.2	87.5°	88.4	90.4	59.6	63.7	65.8	78.1	88.4	334.9	160.3	104.8
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°
7010.8
6675.9
5956.7
4964.3
4193.7
3836.2
3579.4
3491.0
3464.3
3363.6
3195.1
3057.5
2928.0
2786.2
2628.0
2449.3
2169.8
2038.3
2120.5
2063.0
1826.7
1668.5
1590.4
1491.7
1397.2
1302.7
1216.4
1132.2
1033.5
924.6
799.3
653.4
581.5
733.5
322.6
111.0
0.0

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