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: P944601

Luminaire Tested: **GALN-SB9C-850-U-SL4-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P944601
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9C-850-U-SL4-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	45546 lumens
Efficiency:	N/A
Efficacy:	101.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5
Input Watts (W):	449.8
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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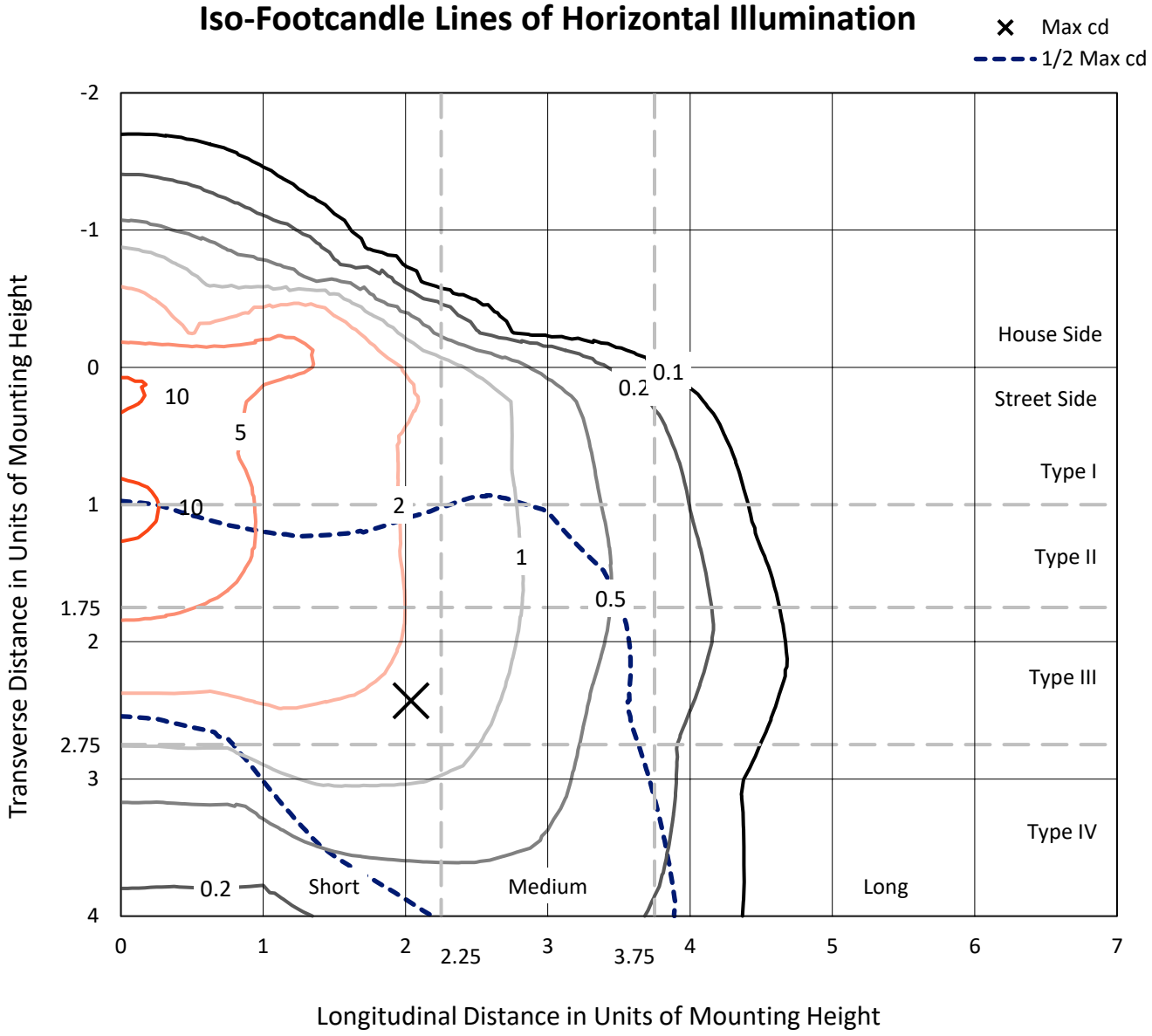
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type IV - Short - N/A

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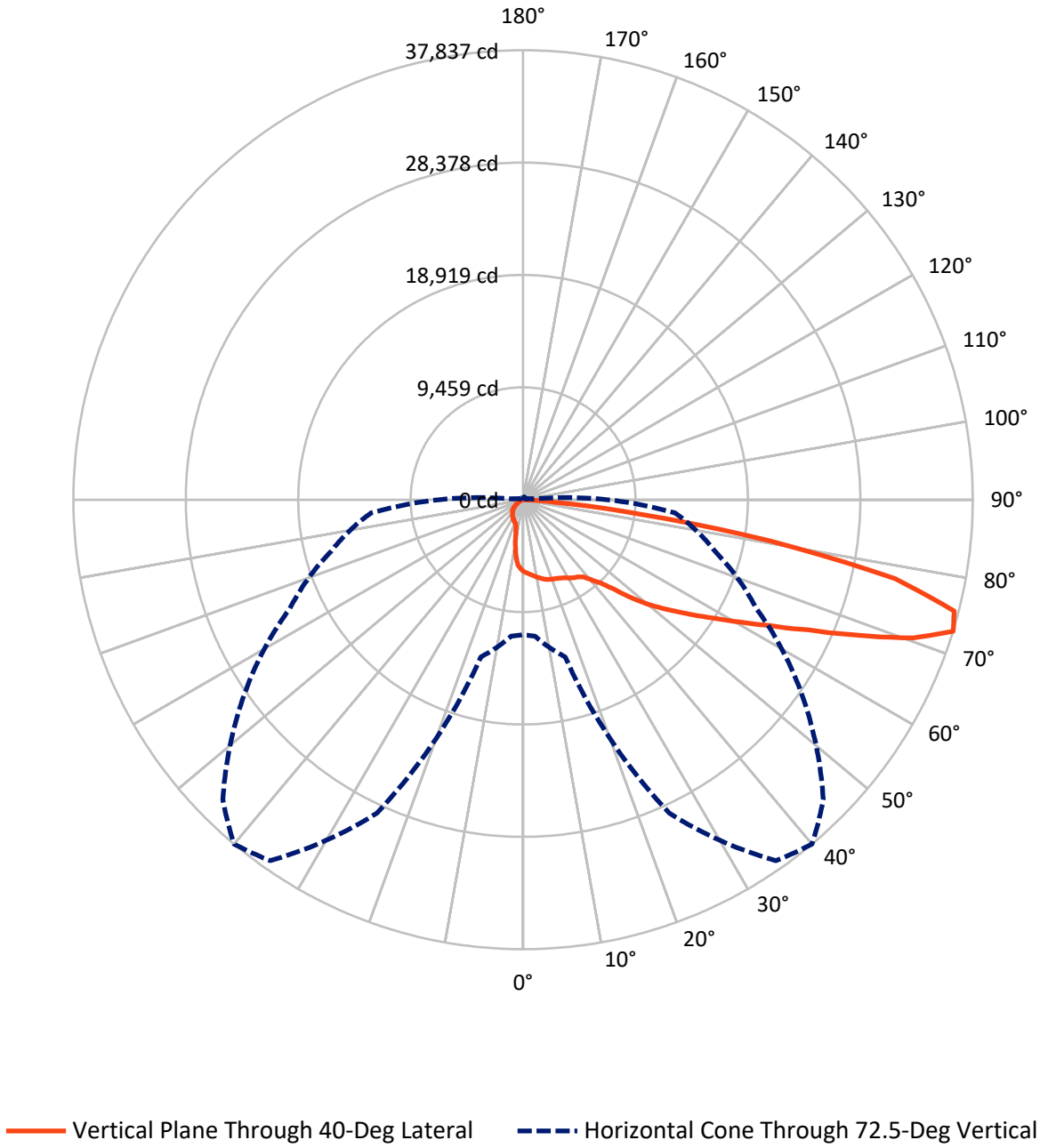
Luminous Intensity Polar Plot



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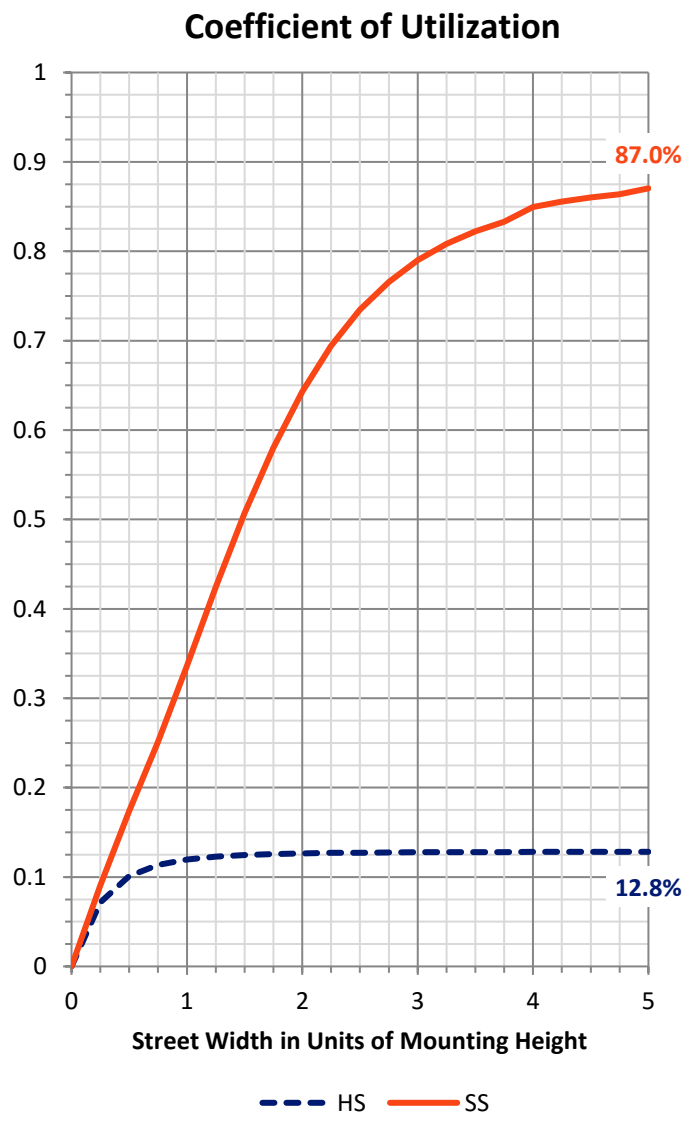
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5881.8	0.0	5881.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	39664.2	0.0	39664.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	45546.0	0.0	45546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.8	1.2
10°-20°	1495.7	3.3
20°-30°	2420.1	5.3
30°-40°	3573.0	7.8
40°-50°	6013.4	13.2
50°-60°	9337.2	20.5
60°-70°	11683.5	25.7
70°-80°	9565.3	21.0
80°-90°	907.0	2.0
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°	45546.0	100.0
0°-180°	45546.0	100.0



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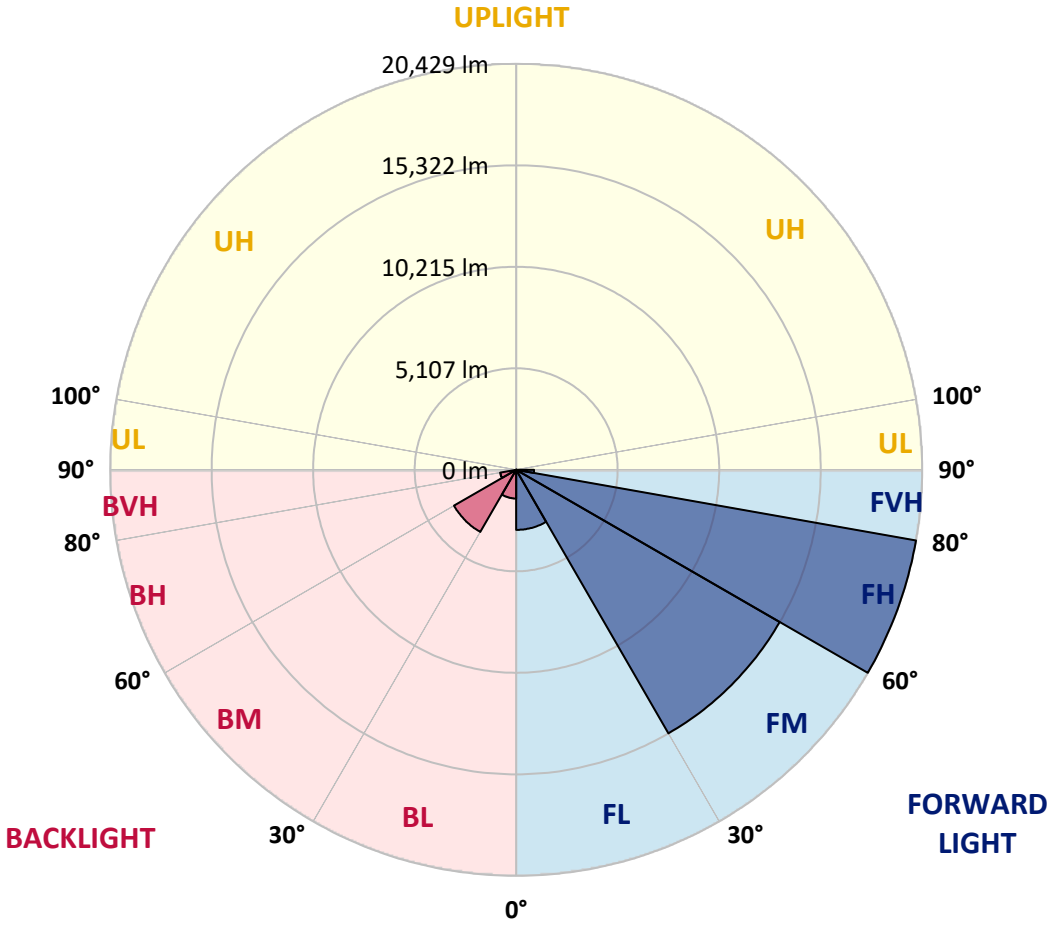
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3022.9	6.6			
FM	(30°-60°)	15311.8	33.6			
FH	(60°-80°)	20429.4	44.9			G5
FVH	(80°-90°)	900.1	2.0			G5
BL	(0°-30°)	1443.7	3.2	B3/2500		
BM	(30°-60°)	3611.8	7.9	B3/5000		
BH	(60°-80°)	819.4	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.9	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6030.7	6030.7	6030.7	6030.7	6030.7	*6030.7*	6030.7	6030.7	6030.7	6030.7
2.5°	6212.5	6236.5	6222.8	6195.3	6188.5	*6174.7*	6157.6	6150.7	6126.7	6106.1
5°	6387.4	6411.4	6394.3	6356.5	6339.4	*6322.2*	6298.2	6277.6	6229.6	6185.0
7.5°	6579.5	6600.1	6579.5	6524.6	6497.2	*6476.6*	6442.3	6411.4	6356.5	6291.4
10°	6792.2	6809.4	6778.5	6706.5	6661.9	*6631.0*	6600.1	6565.8	6514.3	6442.3
12.5°	6991.2	7011.8	6963.7	6878.0	6826.5	*6795.6*	6761.3	6733.9	6682.4	6613.8
15°	7173.0	7203.9	7121.5	7028.9	6970.6	*6946.6*	6912.3	6895.1	6860.8	6812.8
17.5°	7310.2	7330.8	7245.0	7135.3	7070.1	*7052.9*	7028.9	7039.2	7032.3	7008.3
20°	7426.8	7440.6	7327.4	7193.6	7121.5	*7125.0*	7118.1	7152.4	7166.1	7166.1
22.5°	7570.9	7574.3	7430.3	7262.2	7176.4	*7200.4*	7210.7	7248.5	7275.9	7303.3
25°	7759.6	7752.7	7581.2	7351.4	7275.9	*7310.2*	7334.2	7347.9	7378.8	7423.4
27.5°	8040.9	8020.3	7800.8	7495.4	7406.3	*7437.1*	7481.7	7474.9	7461.1	7495.4
30°	8397.6	8370.2	8078.6	7697.8	7615.5	*7643.0*	7656.7	7594.9	7495.4	7526.3
32.5°	8963.7	8915.6	8510.8	7924.2	7797.3	*7828.2*	7811.0	7684.1	7536.6	7567.5
35°	9948.2	9831.6	9258.7	8397.6	8003.1	*7968.8*	7927.7	7804.2	7622.4	7591.5
37.5°	12040.7	11834.9	10857.2	9320.4	8469.7	*8246.7*	8119.8	7996.3	7715.0	7591.5
40°	14400.9	14191.6	13063.0	10864.1	9245.0	*8867.6*	8565.7	8222.7	7811.0	7636.1
42.5°	16863.9	16634.1	15474.6	12778.3	10353.0	*9577.7*	9015.1	8404.5	7968.8	7773.3
45°	19615.1	19326.9	17810.7	14774.8	11961.8	*10757.8*	9738.9	8778.4	8243.3	8016.9
47.5°	22517.2	22143.3	20139.9	16713.0	13694.2	*12390.6*	11063.1	9447.3	8648.1	8380.5
50°	25090.0	24719.5	22544.7	18740.3	15313.3	*13944.6*	12572.5	10373.6	9255.2	8895.1
52.5°	26939.0	26657.7	24733.3	20832.9	16997.7	*15402.5*	13941.2	11450.7	10023.7	9553.7
55°	28177.4	27920.1	26283.8	22815.7	18956.4	*17008.0*	15289.3	12620.5	10949.9	10342.7
57.5°	28928.6	28781.1	27405.5	24585.7	20898.1	*18764.3*	16833.0	13906.9	12040.7	11272.3
60°	29196.2	29076.2	28101.9	26273.5	23244.5	*20874.0*	18647.7	15357.9	13364.9	12328.9
62.5°	28482.7	28506.7	28602.8	28273.4	25717.8	*23343.9*	20822.6	17100.6	14833.1	13526.1
65°	25124.3	25323.3	27148.3	30489.5	28993.8	*26438.2*	23590.9	19227.4	16514.0	14888.0
67.5°	20802.0	21090.2	23361.1	31786.2	32486.0	*30455.2*	27446.7	21937.5	18517.3	16273.9
70°	15924.0	16232.7	18983.9	31515.2	35755.2	*34846.1*	32215.0	25385.0	20592.7	17234.4
72.5°	*11364.9*	*11522.7*	*13690.8*	*29103.6*	*37096.4*	*37837.4*	*35727.7*	*28650.8*	*21652.7*	*16702.7*
75°	7986.0	7958.5	9395.9	23436.6	35007.3	*37473.8*	34496.2	26884.1	19594.5	13268.8
77.5°	3478.4	3485.3	4692.8	14232.8	27940.7	*32005.7*	28674.8	16839.9	13659.9	7032.3
80°	902.2	929.6	1722.1	5667.0	16822.7	*21124.5*	17488.2	7402.8	6312.0	1715.2
82.5°	319.0	339.6	792.4	1780.4	6205.6	*9687.5*	7787.0	2367.0	1646.6	490.5
85°	92.6	109.8	425.4	545.4	1283.0	*2737.5*	1890.2	459.7	404.8	253.9
87.5°	0.0	13.7	85.8	75.5	75.5	*51.5*	96.1	51.5	65.2	30.9
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°
6030.7	0°	6030.7	6030.7	6030.7	6030.7	6030.7	6030.7	6030.7	6030.7	6030.7	6030.7
6082.1	2.5°	6061.5	6037.5	5986.1	5931.2	5879.7	5831.7	5818.0	5766.5	5742.5	5745.9
6130.1	5°	6092.4	6047.8	5948.3	5828.3	5704.8	5564.1	5447.5	5282.8	5142.2	5125.0
6222.8	7.5°	6174.7	6102.7	5941.5	5708.2	5399.5	5011.8	4651.6	4294.9	4092.5	3982.7
6360.0	10°	6301.7	6205.6	5958.6	5512.7	4857.5	4164.5	3619.1	3169.7	2939.9	2833.5
6528.1	12.5°	6452.6	6346.3	5986.1	5179.9	4157.7	3248.6	2658.6	2384.1	2336.1	2329.2
6733.9	15°	6665.3	6548.7	6016.9	4730.5	3399.5	2473.3	2202.3	2205.8	2243.5	2264.1
6956.9	17.5°	6902.0	6785.3	5972.3	4181.7	2651.7	2113.1	2106.3	2137.1	2192.0	2212.6
7162.7	20°	7142.1	7032.3	5814.5	3536.8	2144.0	2013.7	2041.1	2075.4	2130.3	2157.7
7365.1	22.5°	7389.1	7293.1	5564.1	2850.7	1934.8	1941.6	1975.9	2010.2	2072.0	2102.8
7564.1	25°	7653.2	7570.9	5231.4	2284.7	1845.6	1866.1	1910.7	1951.9	2017.1	2054.8
7732.1	27.5°	7920.8	7859.1	4854.0	1907.3	1763.2	1787.2	1838.7	1893.6	1958.8	2003.4
7879.7	30°	8212.4	8178.1	4552.2	1766.7	1684.3	1704.9	1763.2	1825.0	1897.0	1951.9
8027.2	32.5°	8510.8	8504.0	4404.6	1869.6	1612.3	1626.0	1677.5	1739.2	1828.4	1897.0
8150.7	35°	8805.9	8819.6	4318.9	2161.2	1588.3	1550.5	1584.8	1639.7	1746.1	1831.8
8291.3	37.5°	9183.2	9217.5	4315.5	2476.8	1646.6	1475.1	1499.1	1536.8	1629.4	1728.9
8510.8	40°	9745.8	9927.6	4535.0	2747.8	1749.5	1406.5	1413.3	1420.2	1468.2	1550.5
8802.4	42.5°	10493.6	11025.3	5327.4	2933.0	1790.7	1344.7	1320.7	1283.0	1276.1	1320.7
9200.4	45°	11423.3	12352.9	6720.2	3035.9	1749.5	1276.1	1210.9	1111.5	1073.7	1104.6
9738.9	47.5°	12517.6	13807.4	8370.2	3059.9	1680.9	1190.4	1073.7	943.4	912.5	922.8
10462.7	50°	13584.4	14898.3	9821.3	2861.0	1567.7	1080.6	922.8	813.0	792.4	795.9
11316.9	52.5°	14527.8	15272.2	10232.9	2391.0	1416.8	946.8	792.4	717.0	703.2	703.2
12260.3	55°	15152.1	14867.4	9124.9	1828.4	1228.1	809.6	679.2	641.5	634.6	631.2
13313.4	57.5°	15282.5	13550.1	6891.7	1320.7	960.5	682.7	603.8	583.2	569.4	555.7
14394.0	60°	14815.9	11354.7	4387.5	922.8	720.4	583.2	535.1	521.4	494.0	466.5
15409.4	62.5°	13807.4	8576.0	2428.7	641.5	579.7	497.4	473.4	456.2	404.8	360.2
16215.5	65°	12452.4	5701.3	1073.7	500.8	473.4	418.5	404.8	380.8	319.0	267.6
16520.9	67.5°	11090.5	3282.9	483.7	401.4	380.8	343.0	332.7	315.6	271.0	223.0
15742.1	70°	9536.5	1663.7	332.7	319.0	295.0	260.7	271.0	267.6	223.0	181.8
12840.0	72.5°	*7100.9*	*826.7*	*250.4*	*240.1*	*212.7*	*185.2*	*223.0*	*219.5*	*175.0*	*137.2*
7917.4	75°	4020.4	408.2	181.8	168.1	126.9	137.2	178.4	168.1	120.1	89.2
3341.2	77.5°	1595.1	209.3	120.1	102.9	75.5	92.6	130.4	113.2	61.7	37.7
638.1	80°	367.1	102.9	61.7	44.6	34.3	54.9	68.6	41.2	17.2	3.4
171.5	82.5°	102.9	44.6	20.6	17.2	17.2	20.6	17.2	6.9	0.0	0.0
44.6	85°	34.3	20.6	6.9	3.4	3.4	3.4	3.4	0.0	0.0	0.0
13.7	87.5°	13.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
6030.7
5742.5
5114.7
3975.8
2812.9
2325.8
2260.6
2209.2
2157.7
2102.8
2054.8
2006.8
1958.8
1903.9
1845.6
1746.1
1578.0
1344.7
1104.6
919.3
795.9
699.8
624.3
548.9
456.2
346.5
257.3
216.1
175.0
130.4
82.3
34.3
0.0
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