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: P957572

Luminaire Tested: **GALN-SB9D-850-U-T2U**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P957572
	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-SB9D-850-U-T2U
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	89845 lumens
Efficiency:	N/A
Efficacy:	136.5 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B5 - U0 - G5

Input Watts (W):	658
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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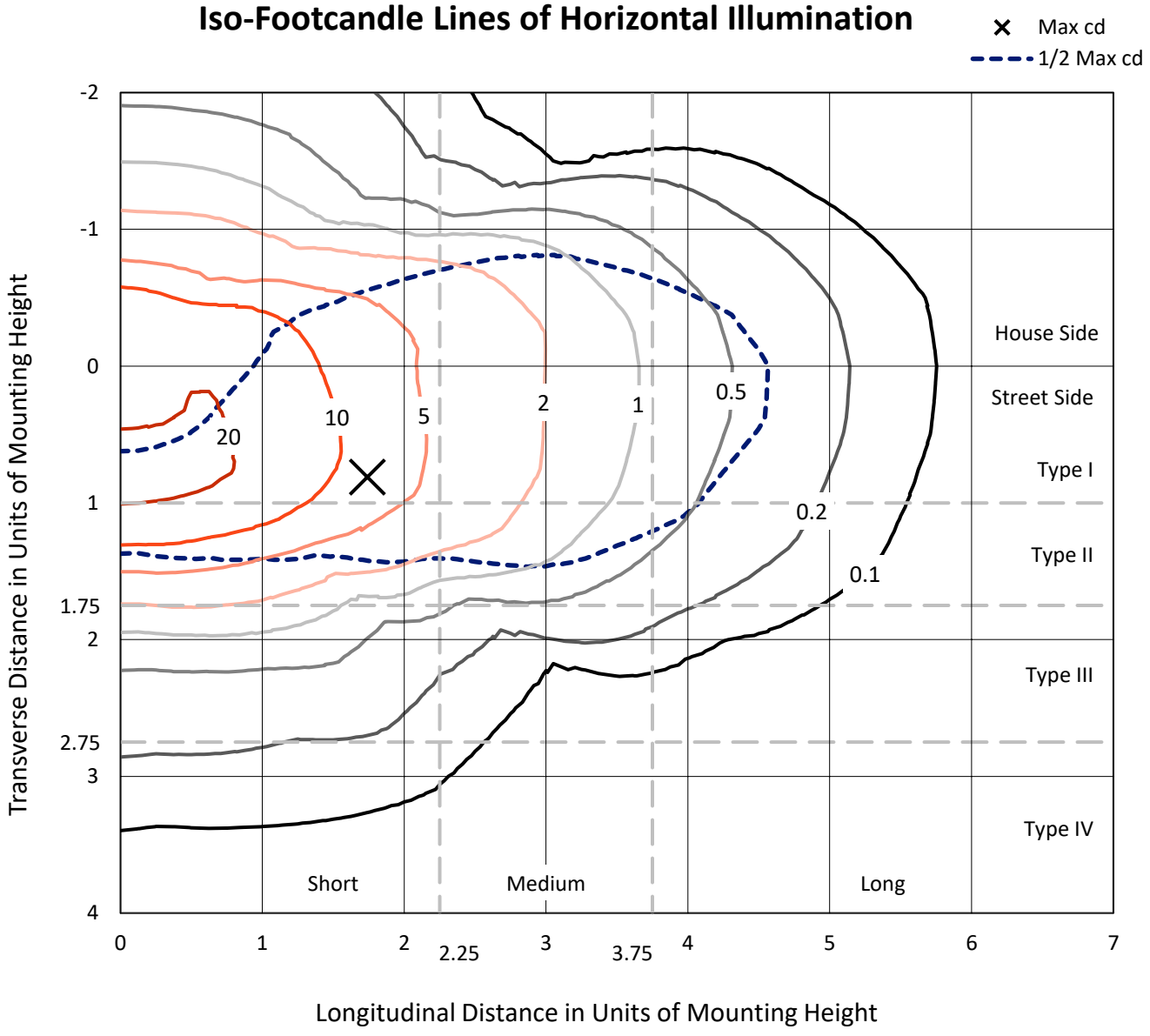
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 25.2 fc
Type II - Short - N/A

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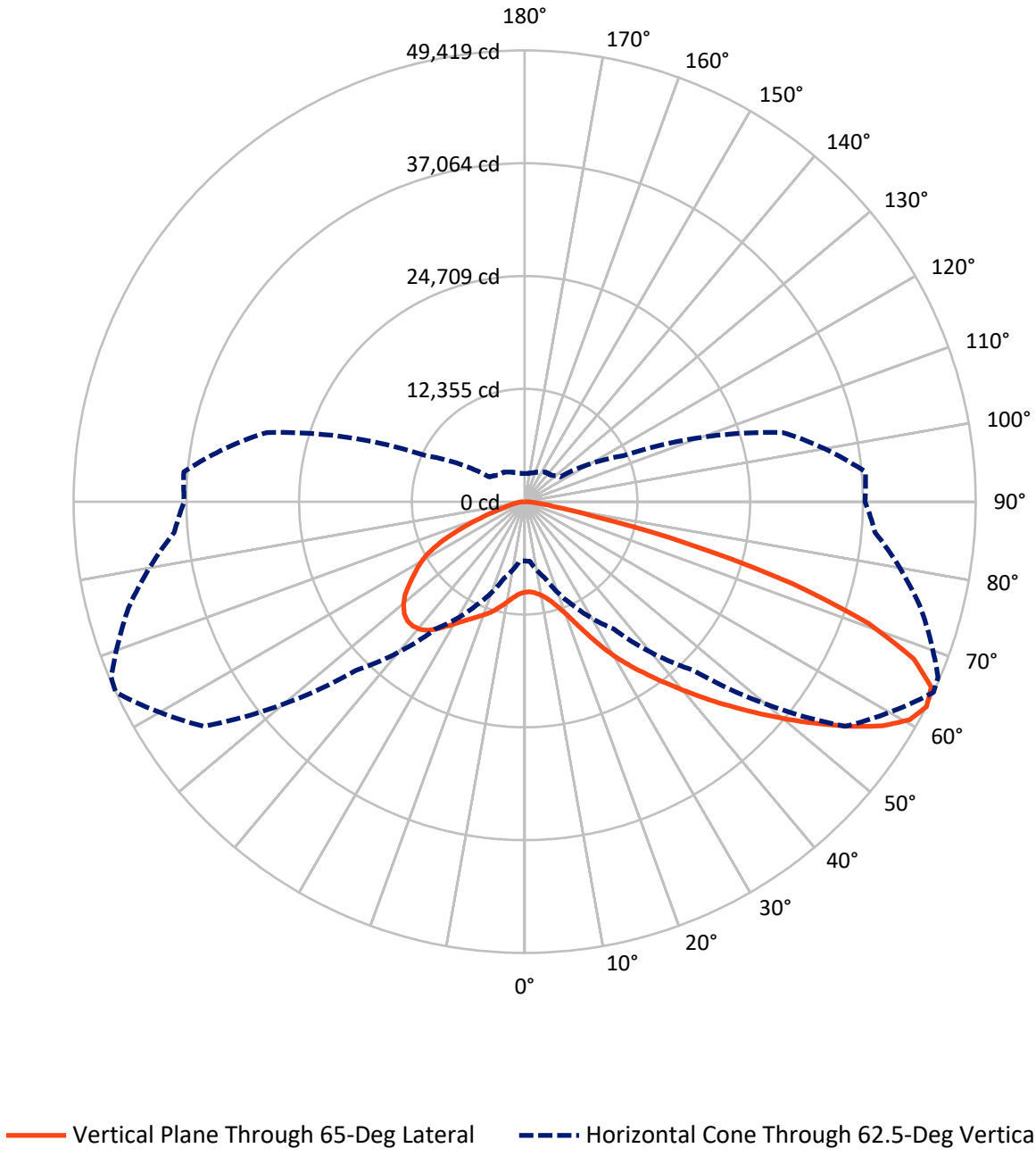
Luminous Intensity Polar Plot



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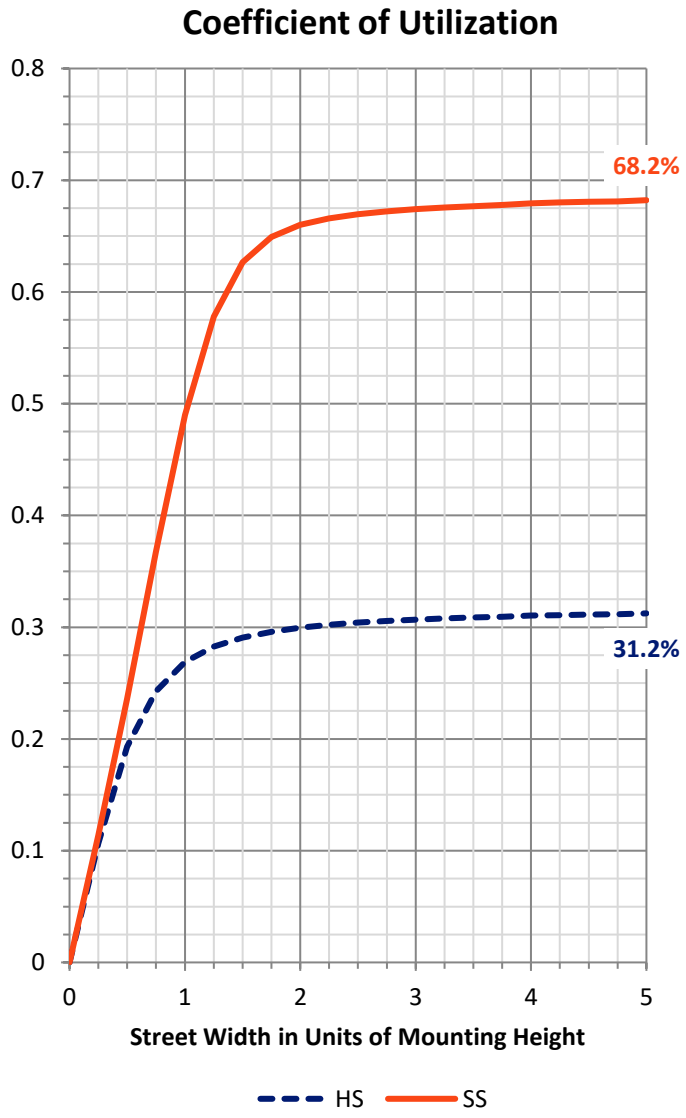
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28351.2	0.0	28351.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	61493.8	0.0	61493.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	89845.0	0.0	89845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	987.1	1.1
10°-20°	3347.2	3.7
20°-30°	6786.9	7.6
30°-40°	11744.6	13.1
40°-50°	17773.2	19.8
50°-60°	20838.0	23.2
60°-70°	17470.1	19.4
70°-80°	9644.9	10.7
80°-90°	1252.8	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°	89845.0	100.0
0°-180°	89845.0	100.0



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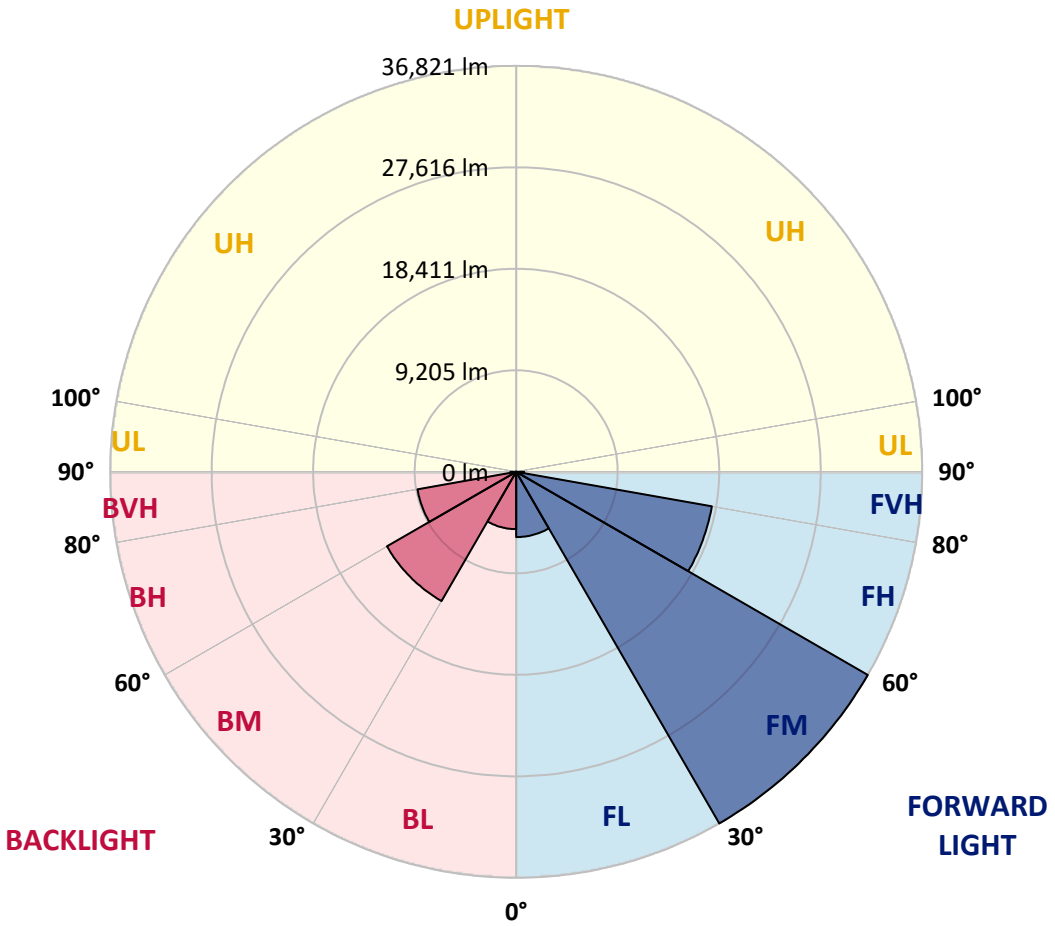
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5922.0	6.6			
FM	(30°-60°)	36821.4	41.0			
FH	(60°-80°)	18020.3	20.1			G5
FVH	(80°-90°)	730.2	0.8			G4/750
BL	(0°-30°)	5199.3	5.8	B5		
BM	(30°-60°)	13534.4	15.1	B5		
BH	(60°-80°)	9094.8	10.1	B5		G5
BVH	(80°-90°)	522.7	0.6			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	9900.5	9900.5	9900.5	9900.5	9900.5	9900.5	9900.5	*9900.5*	9900.5	9900.5
2.5°	9835.3	9807.3	9830.6	9830.6	9839.9	9835.3	9867.9	*9877.2*	9891.2	9919.2
5°	9737.4	9732.7	9774.7	9812.0	9849.3	9881.9	9923.8	*9984.4*	9993.8	10026.4
7.5°	9704.8	9676.8	9742.0	9788.7	9877.2	9956.5	10068.3	*10170.9*	10212.8	10226.8
10°	9956.5	9909.9	9970.4	9998.4	10073.0	10152.2	10282.8	*10445.9*	10492.5	10548.4
12.5°	10385.3	10334.0	10422.6	10464.5	10534.5	10604.4	10692.9	*10851.4*	10874.7	10977.3
15°	10972.6	10912.0	10968.0	11019.2	11135.8	11201.0	11289.6	*11443.4*	11443.4	11522.7
17.5°	11769.7	11690.5	11732.4	11751.1	11825.6	11923.5	12072.7	*12207.9*	12277.8	12249.8
20°	12958.3	12860.4	12860.4	12767.2	12739.2	12818.5	13014.3	*13200.7*	13275.3	13130.8
22.5°	14743.6	14603.7	14524.5	14207.5	14081.7	14091.0	14286.8	*14515.2*	14575.8	14319.4
25°	17013.6	16794.5	16687.3	16221.2	15936.9	15689.8	15843.6	*16137.3*	16221.2	15904.2
27.5°	19283.7	19297.6	19195.1	18635.7	18165.0	17712.8	17633.6	*17941.2*	18029.8	17670.9
30°	22467.3	22136.4	21940.6	21269.4	20598.1	19964.2	19637.9	*19763.8*	19787.1	19358.2
32.5°	25212.8	25128.9	24709.4	24122.1	23259.7	22266.9	21721.5	*21521.1*	21483.8	20873.2
35°	28340.5	28293.9	27851.1	27151.9	26219.6	24839.9	23856.4	*23283.0*	23236.4	22378.7
37.5°	31519.5	31519.5	31086.0	30321.5	29356.7	27632.0	26135.7	*25226.8*	25077.6	23958.9
40°	34055.2	33901.4	33980.6	33659.0	32554.3	30722.4	28666.8	*27347.6*	27147.2	25804.8
42.5°	35495.5	35444.3	35919.7	36278.6	35826.5	34362.9	31454.2	*29645.7*	29366.0	27837.1
45°	35817.2	35761.2	36609.6	37924.1	38558.0	37956.7	34484.0	*32064.9*	31724.6	29962.6
47.5°	35076.0	34964.2	36208.7	38283.0	40315.3	41373.4	37765.6	*34689.1*	34195.0	32032.2
50°	32847.9	32740.7	34623.9	37378.7	40907.3	43694.7	41326.8	*37471.9*	36716.8	34251.0
52.5°	28004.9	28056.2	31006.7	34791.7	40128.8	45139.7	44393.9	*40403.9*	39494.9	36521.0
55°	21814.7	21926.6	25553.1	29720.2	37015.1	44920.6	46486.8	*43424.4*	42520.1	38655.9
57.5°	15619.9	16114.0	19512.1	23637.3	31034.7	41448.0	46943.6	*46295.7*	45419.4	40986.5
60°	10124.3	10212.8	13708.8	17866.6	23632.6	35276.5	46016.0	*48472.5*	47787.3	43363.8
62.5°	*6488.5*	*6549.1*	*8679.3*	*12496.9*	*17009.0*	*26098.4*	*42893.0*	*49418.7*	*49209.0*	*44934.6*
65°	4768.5	4721.9	5831.2	8259.8	11457.4	16095.4	36828.7	*48961.9*	49376.8	45918.1
67.5°	3980.7	3915.5	4460.8	5719.4	8441.6	9140.7	27249.8	*45992.7*	47512.3	45806.3
70°	3626.5	3570.5	3901.5	4246.4	6586.4	6120.2	13736.8	*39984.3*	42324.3	44533.7
72.5°	3071.8	2973.9	3426.0	3771.0	5122.7	4693.9	5677.4	*30713.1*	33565.8	40455.1
75°	2381.9	2316.6	2703.5	3318.8	3850.2	3663.8	3589.2	*18649.7*	21763.5	31286.4
77.5°	1887.8	1799.2	2153.5	2587.0	3463.3	2764.1	2615.0	*8031.4*	11117.1	19973.5
80°	1421.7	1342.4	1636.1	2046.3	2661.6	2083.6	1692.0	*3276.9*	4190.5	10119.6
82.5°	1011.5	941.6	1142.0	1500.9	1789.9	1869.2	1039.5	*1836.5*	2064.9	3901.5
85°	647.9	606.0	764.4	941.6	1137.3	1202.6	633.9	*960.2*	1053.4	1608.1
87.5°	354.3	289.0	410.2	438.2	526.7	480.1	303.0	*349.6*	377.6	582.7
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°
9900.5	0°	9900.5	9900.5	9900.5	9900.5	9900.5	9900.5	9900.5	9900.5	9900.5	9900.5
9919.2	2.5°	9937.8	9951.8	9998.4	10012.4	10045.0	10087.0	10114.9	10142.9	10142.9	10170.9
10068.3	5°	10073.0	10105.6	10203.5	10254.8	10338.7	10422.6	10473.9	10534.5	10571.8	10590.4
10306.1	7.5°	10334.0	10385.3	10525.1	10613.7	10758.2	10874.7	10954.0	11037.9	11056.5	11107.8
10637.0	10°	10688.3	10748.9	10907.4	11075.2	11247.6	11392.1	11466.7	11527.3	11550.6	11559.9
11061.2	12.5°	11093.8	11182.4	11387.5	11592.6	11774.4	11900.2	11918.9	11904.9	11839.6	11783.7
11583.2	15°	11592.6	11671.8	11900.2	12124.0	12301.1	12324.4	12207.9	12133.3	12054.0	12040.1
12165.9	17.5°	12189.2	12231.2	12440.9	12660.0	12674.0	12594.7	12422.3	12352.4	12277.8	12226.5
12925.7	20°	12883.7	12869.8	13018.9	13112.1	13014.3	12771.9	12510.8	12394.3	12319.7	12259.1
13857.9	22.5°	13713.4	13606.2	13587.6	13564.3	13303.3	12795.2	12440.9	12291.8	12175.2	12091.3
15158.4	25°	14920.7	14510.5	14226.2	14067.7	13480.4	12669.3	12217.2	11886.2	11667.1	11522.7
16747.9	27.5°	16431.0	15741.1	15023.3	14636.4	13480.4	12413.0	11676.5	11140.4	10781.5	10632.3
18286.1	30°	17871.3	17148.8	16090.7	15321.6	13447.8	11993.4	10804.8	10059.0	9639.5	9490.3
19600.6	32.5°	19101.9	18314.1	17223.4	16072.0	13368.5	11312.9	9723.4	8898.4	8492.8	8315.7
20901.1	35°	20243.9	19404.9	18360.7	16897.1	13158.8	10315.4	8534.8	7905.5	7453.4	7169.0
22224.9	37.5°	21413.9	20416.3	19437.5	17642.9	12781.2	9150.1	7621.2	7085.1	6553.7	6171.5
23632.6	40°	22686.4	21493.1	20588.8	18085.7	12161.2	8040.7	6912.7	6423.2	5859.2	5453.7
25254.7	42.5°	24173.3	22784.3	21870.7	18314.1	11312.9	7252.9	6451.2	5971.1	5439.7	5108.7
26993.4	45°	25725.5	24206.0	23040.6	18309.5	10366.7	6884.7	6302.0	5826.6	5239.3	4894.3
28778.7	47.5°	27352.3	25692.9	24052.1	18011.1	9546.3	6936.0	6218.1	5514.3	4866.4	4530.8
30582.6	50°	28983.8	27319.7	25031.0	17451.8	9196.7	6824.1	5905.8	5076.1	4311.7	4008.7
32274.6	52.5°	30601.2	29049.0	25874.7	16654.7	8842.4	6409.2	5505.0	4507.4	4083.3	3873.5
34022.6	55°	32228.0	30759.7	26793.0	15494.0	7956.8	5924.5	4833.7	4293.0	3901.5	3710.4
35733.3	57.5°	33859.4	32736.1	27664.6	14333.4	6842.7	5327.8	4465.5	4032.0	3719.7	3556.5
37164.3	60°	35556.1	34996.8	28564.2	13266.0	5742.7	4563.4	4195.1	3822.2	3505.3	3323.5
38539.3	62.5°	*37304.1*	*37485.9*	*29268.1*	*11890.9*	*4731.2*	*4097.3*	*3952.8*	*3570.5*	*3262.9*	*3090.4*
39676.7	65°	39066.1	39886.5	29729.6	9984.4	3836.2	3654.4	3691.7	3295.5	2983.2	2834.0
40511.1	67.5°	40394.5	41615.8	29599.0	7555.9	3146.4	3234.9	3365.4	3006.5	2712.9	2596.3
40375.9	70°	40543.7	41410.7	28312.5	5174.0	2633.6	2824.7	3001.9	2722.2	2419.2	2335.3
38474.1	72.5°	38558.0	38613.9	24728.0	3379.4	2228.1	2479.8	2619.6	2433.2	2139.5	2055.6
33659.0	75°	33351.4	31934.3	18155.6	2228.1	1864.5	2130.2	2260.7	2130.2	1845.9	1864.5
25184.8	77.5°	25268.7	22616.5	11023.9	1584.8	1556.9	1789.9	1967.1	1873.8	1631.4	1831.9
12664.7	80°	13018.9	12235.8	4917.6	1184.0	1230.6	1431.0	1617.5	1496.3	1291.2	1230.6
2829.4	82.5°	2983.2	3468.0	1939.1	848.4	890.3	1030.1	1235.2	1123.4	927.6	783.1
1179.3	85°	1044.1	1142.0	857.7	531.4	522.1	643.3	839.0	750.5	629.3	503.4
498.8	87.5°	330.9	433.5	321.6	214.4	223.7	289.0	386.9	354.3	293.7	191.1
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°
9900.5
10170.9
10599.7
11089.2
11536.6
11783.7
12040.1
12231.2
12263.8
12119.3
11578.6
10706.9
9578.9
8404.3
7262.3
6274.1
5532.9
5174.0
4950.3
4577.4
4027.3
3873.5
3691.7
3528.6
3309.5
3085.8
2829.4
2601.0
2340.0
2051.0
1799.2
1612.8
1123.4
773.8
531.4
200.4
0.0

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