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: P957321

Luminaire Tested: **GALN-SB9C-950-U-T3R-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P957321
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9C-950-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	39506 lumens
Efficiency:	N/A
Efficacy:	87.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Medium
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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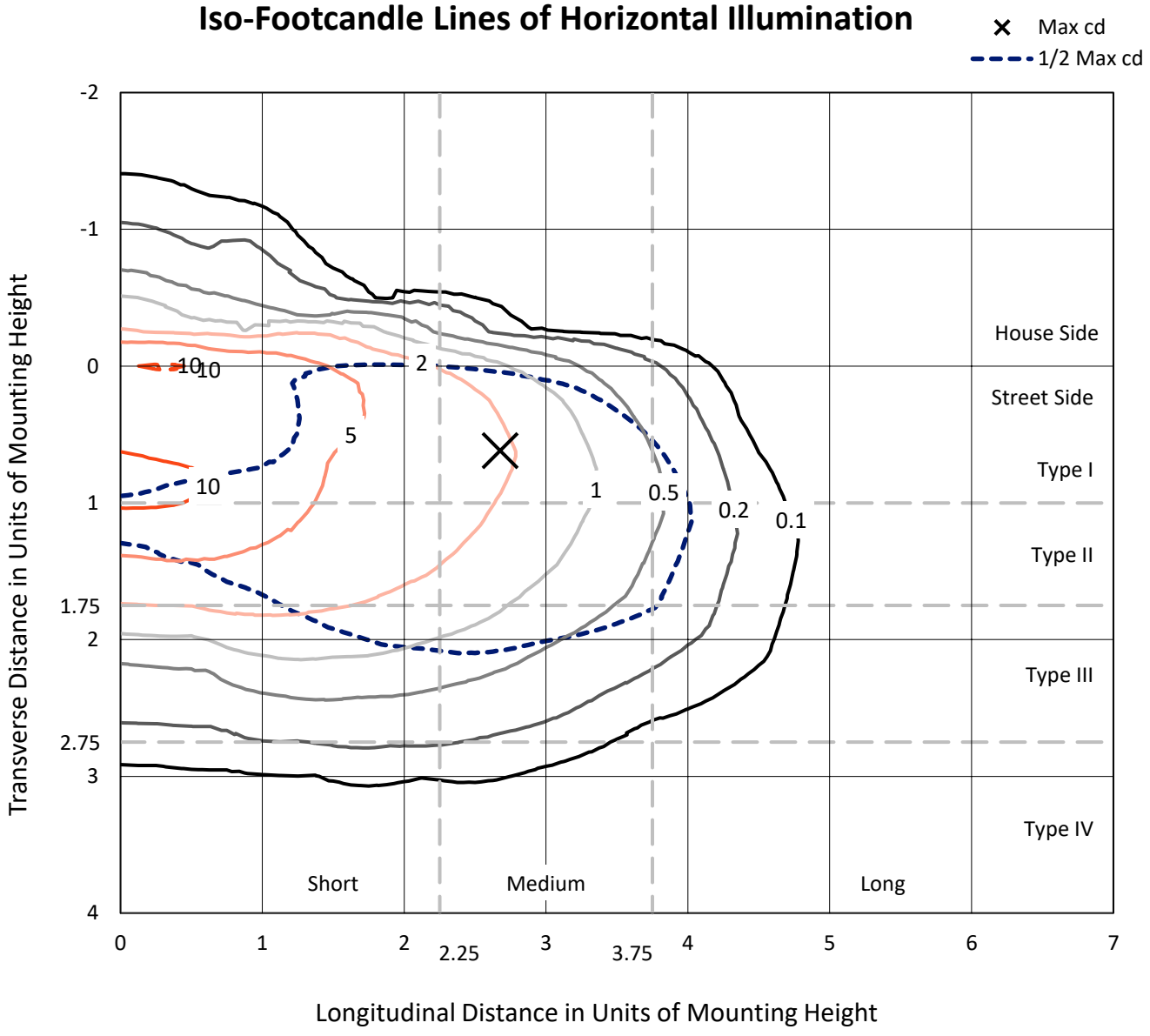
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type III - Medium - N/A

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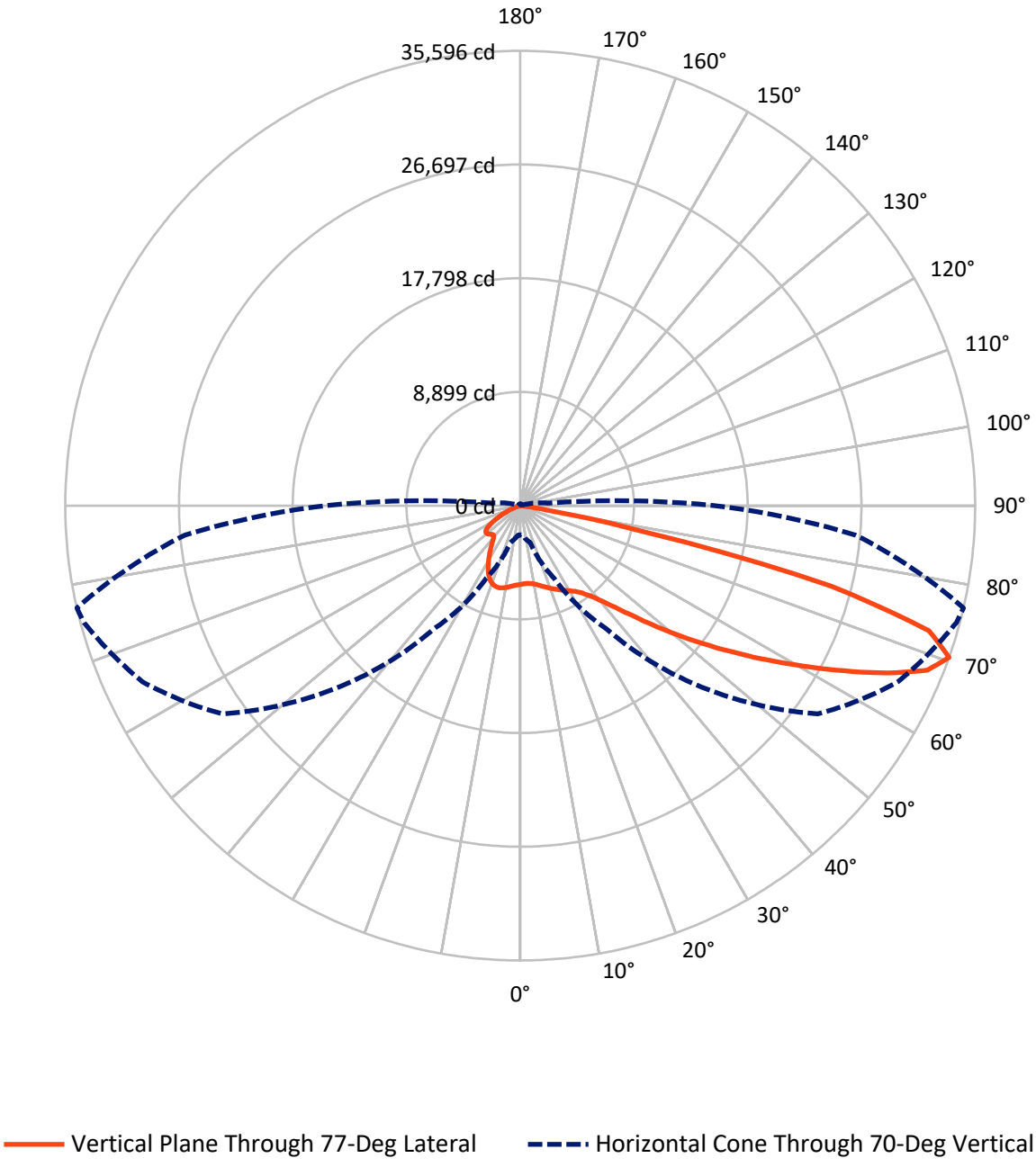
Luminous Intensity Polar Plot



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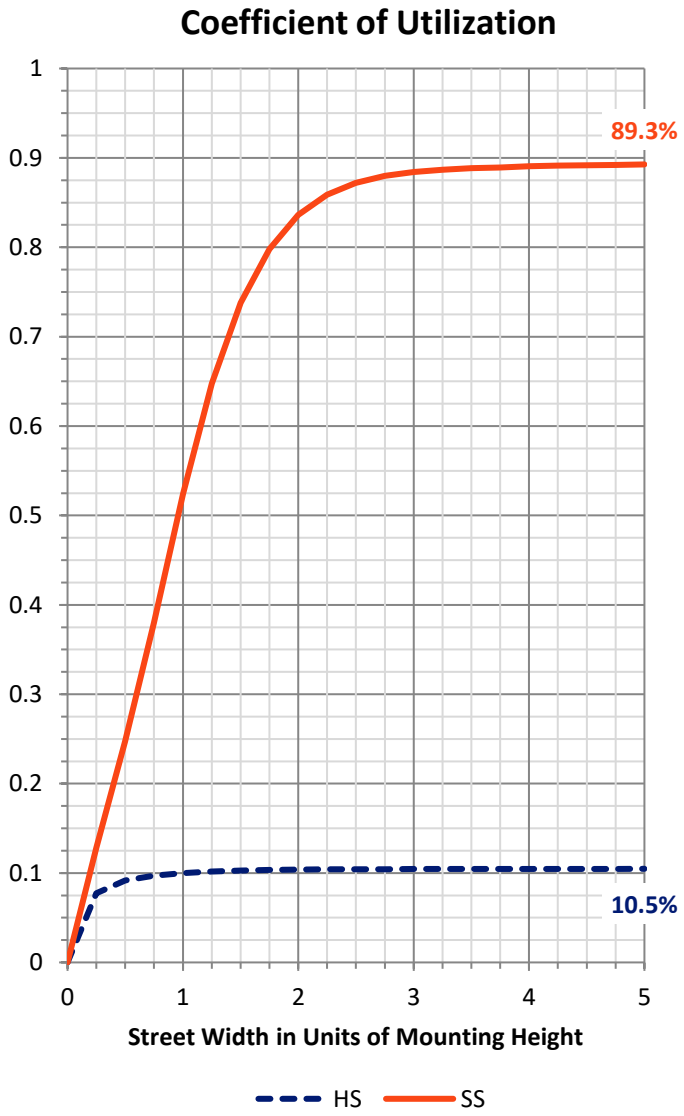
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4164.5	0.0	4164.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	35341.5	0.0	35341.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	39506.0	0.0	39506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.1	1.3
10°-20°	1260.7	3.2
20°-30°	1950.0	4.9
30°-40°	3538.4	9.0
40°-50°	6679.2	16.9
50°-60°	9650.8	24.4
60°-70°	10273.0	26.0
70°-80°	5444.0	13.8
80°-90°	178.8	0.5
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°	39506.0	100.0
0°-180°	39506.0	100.0



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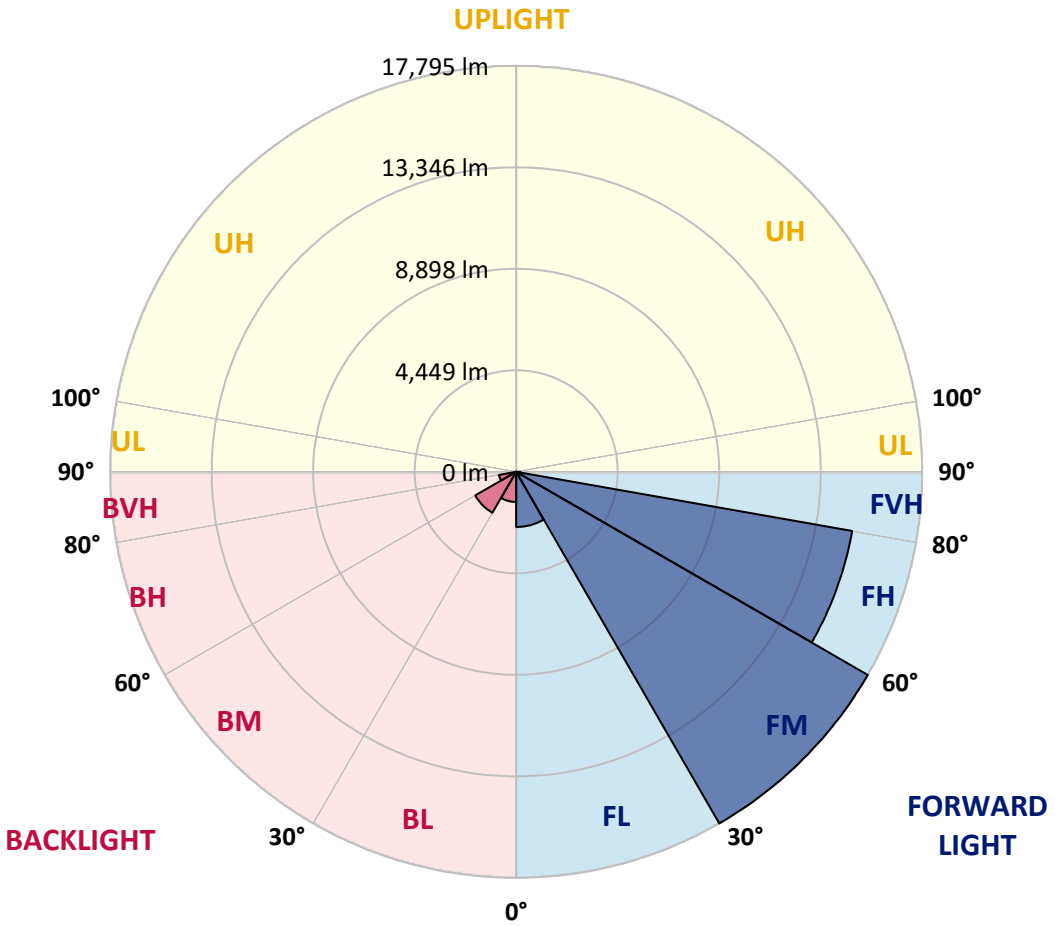
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2418.7	6.1			
FM	(30°-60°)	17795.3	45.0			
FH	(60°-80°)	14953.6	37.9			G5
FVH	(80°-90°)	173.9	0.4			G2/225
BL	(0°-30°)	1323.1	3.3	B3/2500		
BM	(30°-60°)	2073.1	5.2	B2/2500		
BH	(60°-80°)	763.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	*6162.2*
2.5°	5785.5	5837.9	5830.4	5865.3	5877.8	5927.7	5977.6	6045.0	6119.8	*6117.3*
5°	5458.7	5511.1	5523.5	5570.9	5630.8	5708.2	5810.5	5945.2	6084.9	*6107.3*
7.5°	5072.0	5126.9	5159.3	5254.1	5363.9	5523.5	5690.7	5887.8	6119.8	*6152.2*
10°	4685.3	4735.2	4777.6	4912.3	5087.0	5324.0	5595.9	5880.3	6192.2	*6239.6*
12.5°	4445.8	4493.2	4540.6	4657.8	4874.9	5164.3	5533.5	5915.2	6311.9	*6379.3*
15°	4361.0	4403.4	4440.8	4545.6	4747.7	5077.0	5521.1	5987.6	6464.1	*6553.9*
17.5°	4373.4	4395.9	4420.8	4500.7	4697.8	5037.1	5543.5	6112.3	6643.7	*6723.6*
20°	4445.8	4458.3	4460.8	4515.6	4690.3	5032.1	5588.4	6232.1	6813.4	*6920.6*
22.5°	4538.1	4543.1	4538.1	4575.5	4737.7	5069.5	5648.3	6376.8	7003.0	*7102.8*
25°	4969.7	4874.9	4755.1	4682.8	4817.5	5141.8	5738.1	6571.4	7210.0	*7307.3*
27.5°	6309.4	6037.5	5608.4	5126.9	4982.2	5246.6	5862.8	6768.5	7419.6	*7506.9*
30°	8484.9	8128.1	7399.7	6314.4	5511.1	5466.2	6025.0	6965.6	7641.7	*7736.5*
32.5°	10665.4	10578.1	9737.3	8235.4	6701.1	5955.2	6294.4	7232.5	7936.0	*8010.9*
35°	12870.8	12693.7	12005.1	10520.7	8534.8	6950.6	6743.5	7581.8	8322.7	*8407.6*
37.5°	14559.8	14452.5	14025.9	12803.5	10710.3	8487.4	7511.9	8123.2	8884.1	*8978.9*
40°	16051.7	16001.8	15857.1	15051.3	13142.7	10498.2	8706.9	8961.4	9662.5	*9774.7*
42.5°	17224.3	17341.5	17423.9	17199.3	15650.0	12793.5	10313.6	10139.0	10747.7	*10862.5*
45°	18424.3	18464.2	18796.0	19120.4	18139.9	15193.5	12124.9	11518.6	12097.4	*12239.6*
47.5°	19195.2	19354.9	19938.7	20510.0	20233.0	17573.6	14070.8	13147.7	13661.7	*13928.6*
50°	19252.6	19554.5	20357.8	21353.2	21757.4	19838.9	16186.4	15003.9	15550.3	*15844.6*
52.5°	18297.1	18766.1	20011.0	21468.0	22580.7	21757.4	18374.4	16860.0	17561.1	*17945.3*
55°	14028.4	14642.1	18706.2	20844.3	22613.1	23211.9	20505.0	18793.5	19801.4	*20235.5*
57.5°	12222.2	12531.5	14707.0	19761.5	22011.9	23798.2	22431.0	20634.7	22238.9	*22777.8*
60°	10168.9	10575.6	12334.4	17990.2	21196.0	23855.5	24132.5	23009.8	24880.9	*25487.2*
62.5°	6910.7	7352.3	9101.1	14946.5	20080.9	23828.1	25527.1	25454.7	27817.3	*28468.5*
65°	4281.1	4558.0	5710.7	12204.7	18521.6	23858.0	26986.5	28423.6	30915.9	*31577.0*
67.5°	3383.0	3510.2	4111.5	9370.6	15834.7	23184.4	28443.5	31215.3	33832.3	*34356.3*
70°	*2272.8*	*2350.1*	*2991.3*	*6282.0*	*11780.6*	*20075.9*	*28416.1*	*32617.4*	*35334.2*	*35596.2*
72.5°	1197.5	1257.4	1748.9	2909.0	7115.2	14270.4	23952.8	30940.8	33839.8	*33445.6*
75°	598.8	698.6	1177.6	1476.9	3038.7	7958.5	14874.2	24394.4	26634.8	*25107.9*
77.5°	454.1	548.9	973.0	973.0	1057.8	2679.4	6299.4	13304.9	12272.1	*10218.8*
80°	289.4	374.2	850.7	736.0	441.6	681.1	1641.6	3727.3	2607.1	*1983.4*
82.5°	169.6	244.5	708.5	486.5	247.0	252.0	464.0	793.4	676.1	*526.4*
85°	67.4	159.7	486.5	192.1	97.3	62.4	139.7	169.6	139.7	*104.8*
87.5°	0.0	37.4	84.8	0.0	7.5	5.0	10.0	12.5	12.5	*10.0*
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°
6162.2	0°	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2	6162.2
6167.2	2.5°	6189.7	6194.7	6209.6	6212.1	6177.2	6132.3	6114.8	6107.3	6077.4	6074.9
6207.1	5°	6264.5	6287.0	6264.5	6199.6	6045.0	5827.9	5663.3	5528.5	5406.3	5368.9
6344.3	7.5°	6414.2	6436.7	6369.3	6114.8	5725.6	5294.0	4904.8	4630.4	4383.4	4291.1
6511.5	10°	6628.8	6658.7	6446.6	5932.7	5244.1	4550.6	3891.9	3427.9	3066.1	2918.9
6738.5	12.5°	6898.2	6910.7	6489.0	5655.8	4617.9	3627.5	2694.4	2197.9	1876.1	1756.4
7013.0	15°	7195.1	7177.6	6494.0	5279.1	3764.7	2564.7	1758.9	1444.5	1314.8	1274.9
7287.4	17.5°	7506.9	7434.6	6394.2	4735.2	2829.1	1753.9	1304.8	1229.9	1207.5	1197.5
7559.3	20°	7813.8	7651.6	6212.1	4024.2	2030.8	1309.8	1185.0	1162.6	1150.1	1145.1
7833.8	22.5°	8093.2	7816.3	5900.3	3198.4	1474.4	1157.6	1120.2	1100.2	1077.8	1067.8
8100.7	25°	8365.2	7911.1	5461.2	2427.5	1180.1	1082.8	1052.8	1015.4	985.5	973.0
8387.6	27.5°	8629.6	7971.0	4912.3	1796.3	1052.8	1012.9	958.0	905.6	883.2	878.2
8694.5	30°	8911.5	7990.9	4288.6	1339.7	975.5	925.6	845.7	785.9	773.4	775.9
9108.6	32.5°	9255.8	8020.9	3659.9	1097.7	910.6	820.8	726.0	663.6	653.6	663.6
9712.4	35°	9667.5	8080.7	3053.7	1010.4	853.2	713.5	611.2	558.8	548.9	556.3
10485.8	37.5°	10226.3	8178.0	2487.3	992.9	805.8	623.7	513.9	471.5	471.5	474.0
11433.8	40°	10969.8	8437.5	1980.9	980.5	780.9	556.3	434.1	416.6	424.1	429.1
12641.3	42.5°	11875.4	8988.9	1639.1	965.5	753.4	526.4	394.2	386.7	399.2	404.2
14088.3	45°	12890.8	9687.4	1519.3	940.5	728.5	546.4	376.7	366.7	381.7	384.2
15709.9	47.5°	13941.1	10371.0	1504.4	913.1	703.5	576.3	371.7	349.3	366.7	369.2
17441.3	50°	15003.9	10817.6	1519.3	870.7	663.6	576.3	374.2	331.8	346.8	354.3
19237.6	52.5°	16074.2	11022.1	1509.4	778.4	593.8	541.4	374.2	316.8	331.8	336.8
21178.6	55°	17112.0	10982.2	1357.2	641.2	504.0	479.0	364.2	304.4	314.3	316.8
23012.3	57.5°	17932.8	10425.9	1075.3	499.0	409.2	399.2	331.8	289.4	296.9	294.4
24693.8	60°	18361.9	9203.4	768.4	384.2	321.8	314.3	291.9	269.4	274.4	262.0
26118.3	62.5°	18366.9	7586.8	513.9	304.4	257.0	249.5	249.5	242.0	237.0	212.1
27221.1	65°	17975.2	5793.0	341.8	242.0	207.1	194.6	209.6	207.1	189.6	154.7
27557.9	67.5°	17087.1	3797.1	259.5	189.6	159.7	152.2	167.2	174.6	162.2	129.7
26330.4	70°	*15260.9*	*2210.4*	*214.6*	*147.2*	*119.8*	*112.3*	*134.7*	*149.7*	*134.7*	*104.8*
22505.8	72.5°	12676.2	1192.5	174.6	109.8	82.3	74.8	107.3	122.2	107.3	77.3
14440.1	75°	8225.4	638.7	134.7	72.3	42.4	47.4	79.8	89.8	74.8	49.9
4238.7	77.5°	2761.8	281.9	84.8	34.9	20.0	20.0	47.4	54.9	34.9	17.5
770.9	80°	616.2	117.3	34.9	15.0	7.5	7.5	10.0	10.0	5.0	0.0
237.0	82.5°	202.1	47.4	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
59.9	85°	77.3	17.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	87.5°	29.9	2.5	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°
6162.2
6079.9
5346.4
4253.7
2856.6
1718.9
1274.9
1195.0
1140.1
1065.3
968.0
873.2
775.9
661.1
553.9
471.5
429.1
404.2
386.7
371.7
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336.8
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294.4
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