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: P952932

Luminaire Tested: **GALN-SB6C-850-U-T3R-HSS**

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:	P952932
	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-SB6C-850-U-T3R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(6) 80 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:	36165 lumens
Efficiency:	N/A
Efficacy:	120.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type III - Medium
BUG Rating:	B3 - U0 - G5
Input Watts (W):	300.9
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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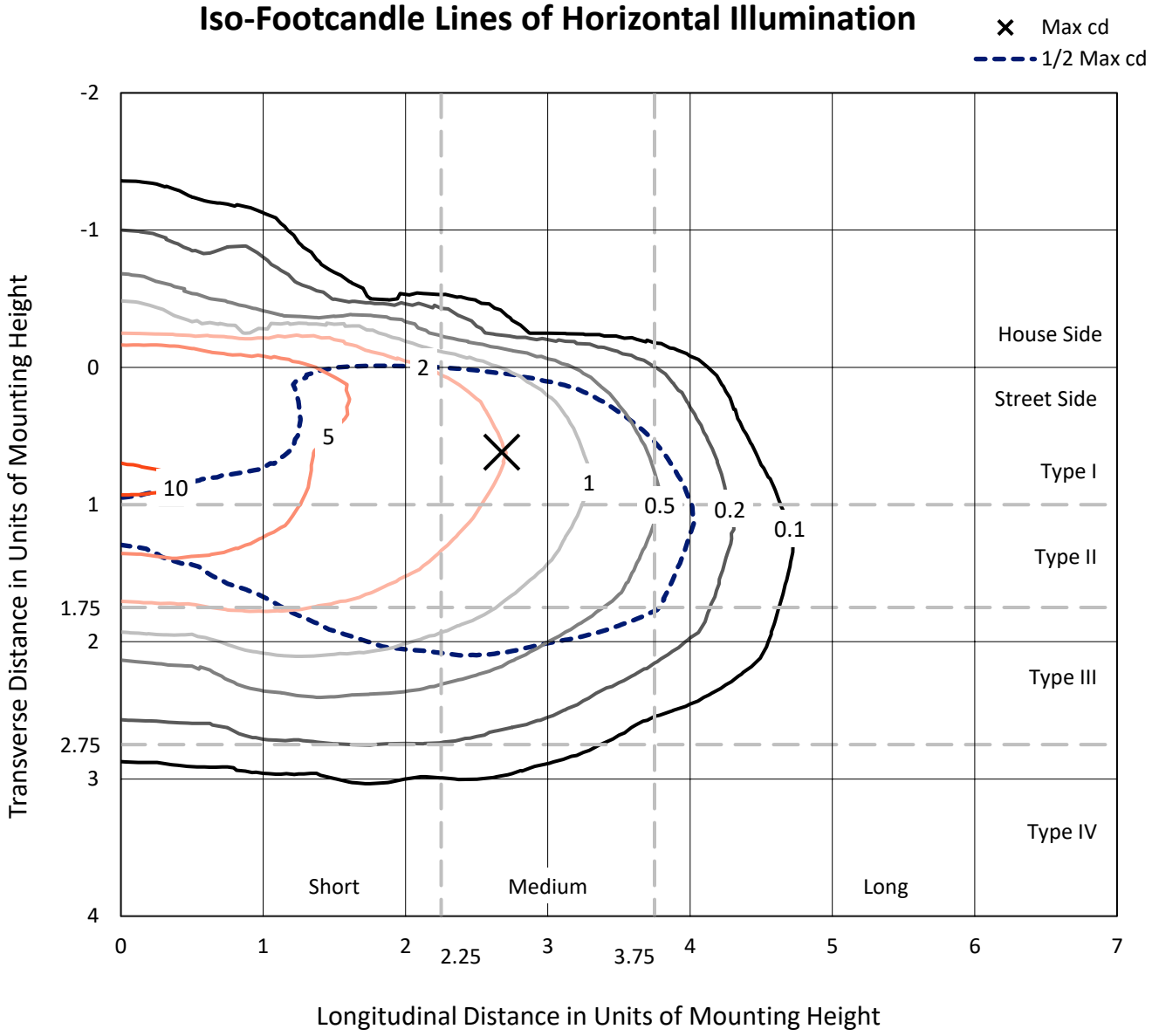
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type III - Medium - N/A

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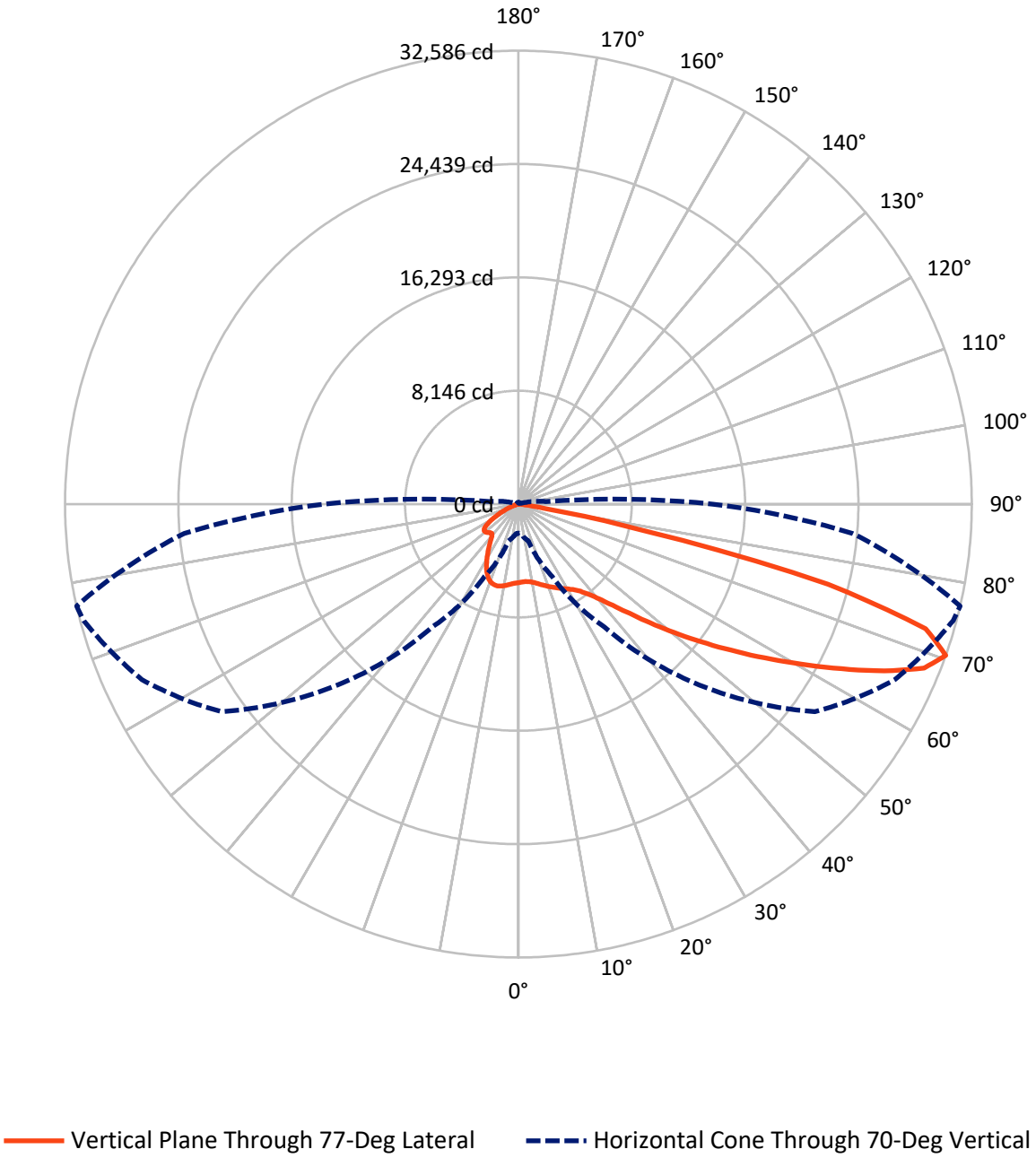
Luminous Intensity Polar Plot



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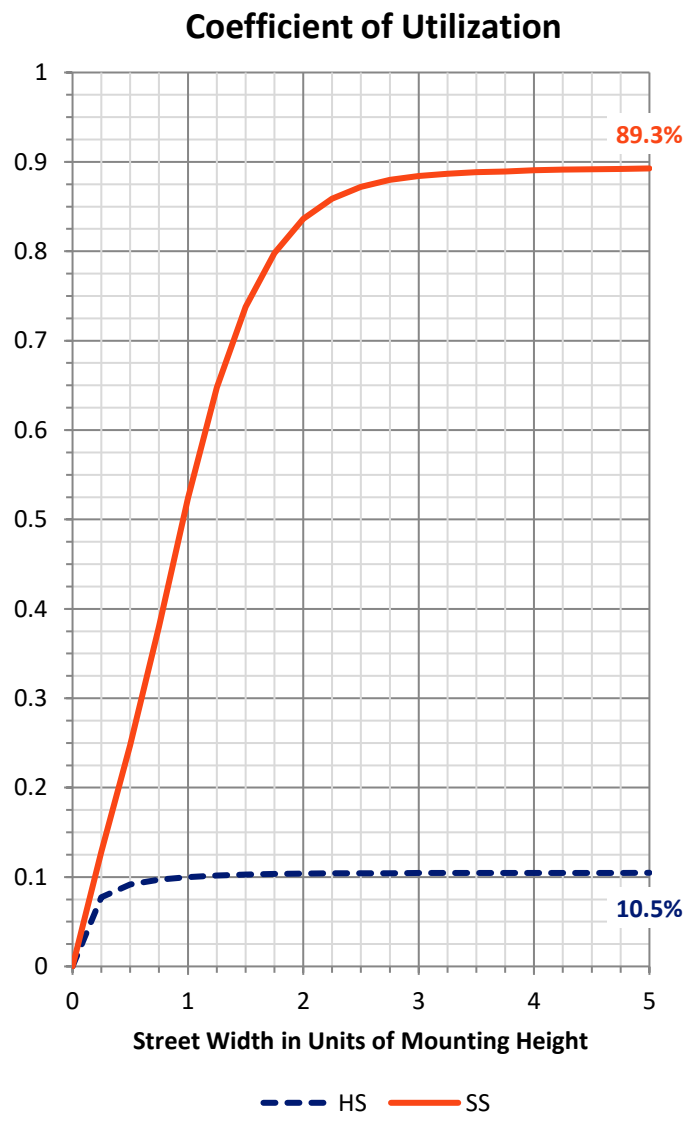
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3812.3	0.0	3812.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32352.7	0.0	32352.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	36165.0	0.0	36165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.2	1.3
10°-20°	1154.1	3.2
20°-30°	1785.1	4.9
30°-40°	3239.2	9.0
40°-50°	6114.3	16.9
50°-60°	8834.7	24.4
60°-70°	9404.3	26.0
70°-80°	4983.6	13.8
80°-90°	163.6	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°	36165.0	100.0
0°-180°	36165.0	100.0



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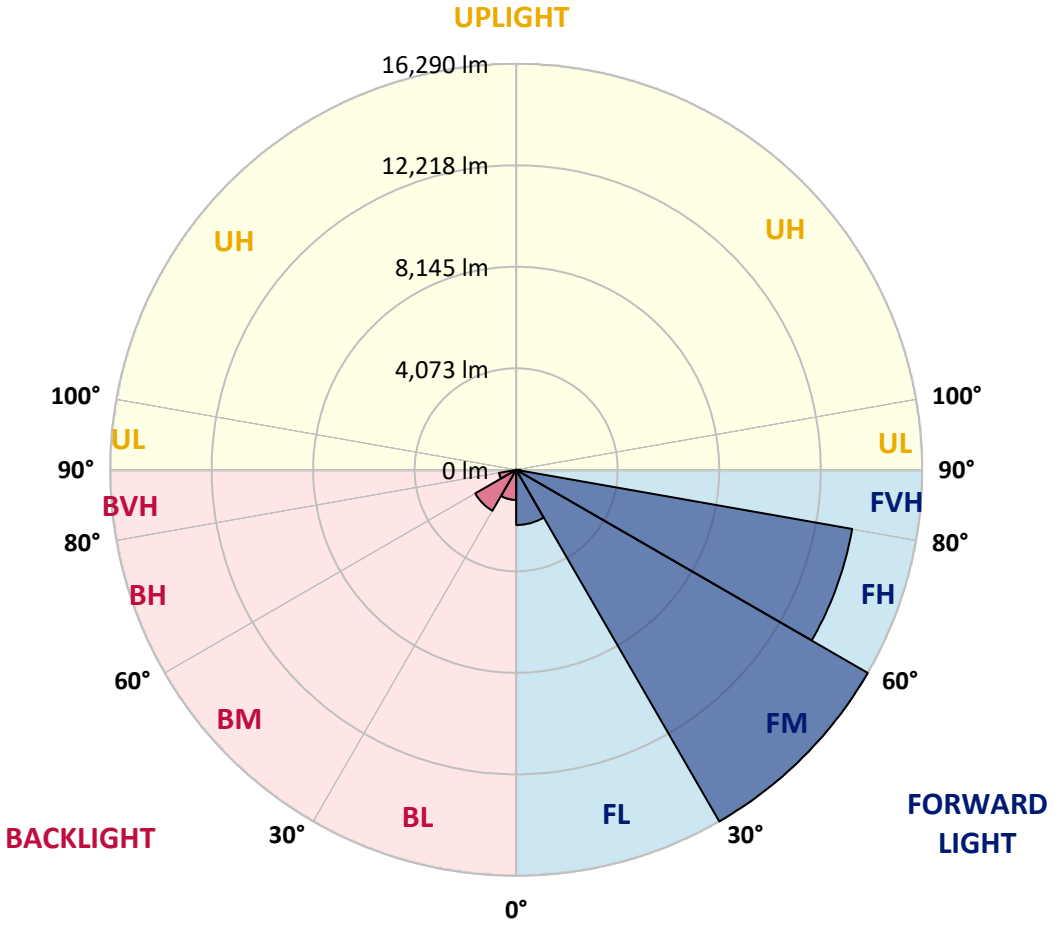
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2214.2	6.1			
FM	(30°-60°)	16290.3	45.0			
FH	(60°-80°)	13689.0	37.9			G5
FVH	(80°-90°)	159.2	0.4			G2/225
BL	(0°-30°)	1211.2	3.3	B3/2500		
BM	(30°-60°)	1897.8	5.2	B2/2500		
BH	(60°-80°)	698.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.4	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°	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	*5641.1*
2.5°	5296.2	5344.2	5337.3	5369.3	5380.7	5426.4	5472.1	5533.7	5602.3	*5600.0*
5°	4997.0	5045.0	5056.4	5099.8	5154.6	5225.4	5319.1	5442.4	5570.3	*5590.8*
7.5°	4643.0	4693.3	4723.0	4809.8	4910.3	5056.4	5209.4	5389.9	5602.3	*5632.0*
10°	4289.1	4334.7	4373.6	4496.9	4656.8	4873.7	5122.7	5383.0	5668.5	*5711.9*
12.5°	4069.8	4113.2	4156.6	4263.9	4462.6	4727.6	5065.6	5415.0	5778.1	*5839.8*
15°	3992.2	4031.0	4065.2	4161.2	4346.1	4647.6	5054.1	5481.2	5917.4	*5999.6*
17.5°	4003.6	4024.1	4047.0	4120.0	4300.5	4611.1	5074.7	5595.4	6081.9	*6155.0*
20°	4069.8	4081.2	4083.5	4133.8	4293.6	4606.5	5115.8	5705.0	6237.2	*6335.4*
22.5°	4154.3	4158.9	4154.3	4188.6	4337.0	4640.8	5170.6	5837.5	6410.7	*6502.1*
25°	4549.4	4462.6	4353.0	4286.8	4410.1	4707.0	5252.8	6015.6	6600.3	*6689.4*
27.5°	5775.8	5526.9	5134.1	4693.3	4560.8	4802.9	5367.0	6196.1	6792.1	*6872.1*
30°	7767.3	7440.8	6773.9	5780.4	5045.0	5003.9	5515.5	6376.5	6995.4	*7082.2*
32.5°	9763.4	9683.5	8913.8	7539.0	6134.4	5451.5	5762.1	6620.9	7264.9	*7333.4*
35°	11782.3	11620.2	10989.8	9631.0	7813.0	6362.8	6173.2	6940.6	7618.9	*7696.5*
37.5°	13328.5	13230.3	12839.8	11720.7	9804.5	7769.6	6876.6	7436.2	8132.8	*8219.5*
40°	14694.2	14648.6	14516.1	13778.4	12031.3	9610.4	7970.6	8203.6	8845.3	*8948.1*
42.5°	15767.6	15875.0	15950.3	15744.8	14326.5	11711.5	9441.4	9281.5	9838.8	*9943.8*
45°	16866.2	16902.7	17206.5	17503.4	16605.8	13908.6	11099.5	10544.5	11074.3	*11204.5*
47.5°	17571.9	17718.0	18252.5	18775.5	18521.9	16087.4	12880.9	12035.8	12506.3	*12750.7*
50°	17624.4	17900.7	18636.1	19547.4	19917.4	18161.1	14817.6	13735.0	14235.2	*14504.7*
52.5°	16749.7	17179.1	18318.7	19652.5	20671.0	19917.4	16820.5	15434.2	16076.0	*16427.7*
55°	12842.0	13403.9	17124.2	19081.5	20700.7	21248.9	18770.9	17204.2	18126.8	*18524.2*
57.5°	11188.5	11471.7	13463.2	18090.3	20150.3	21785.6	20534.0	18889.6	20358.2	*20851.5*
60°	9308.9	9681.2	11291.3	16468.8	19403.5	21838.1	22091.6	21063.9	22776.7	*23331.7*
62.5°	6326.2	6730.5	8331.5	13682.5	18382.6	21813.0	23368.3	23302.0	25464.8	*26060.9*
65°	3919.1	4172.6	5227.7	11172.5	16955.2	21840.4	24704.3	26019.8	28301.4	*28906.6*
67.5°	3096.9	3213.4	3763.8	8578.1	14495.5	21223.7	26038.1	28575.4	30971.2	*31450.8*
70°	*2080.6*	*2151.4*	*2738.3*	*5750.7*	*10784.3*	*18378.1*	*26012.9*	*29858.9*	*32346.0*	*32585.8*
72.5°	1096.2	1151.1	1601.0	2663.0	6513.5	13063.6	21927.2	28324.2	30978.0	*30617.2*
75°	548.1	639.5	1078.0	1352.0	2781.7	7285.5	13616.3	22331.4	24382.3	*22984.6*
77.5°	415.7	502.4	890.7	890.7	968.3	2452.8	5766.7	12179.7	11234.2	*9354.6*
80°	264.9	342.6	778.8	673.7	404.2	623.5	1502.8	3412.1	2386.6	*1815.7*
82.5°	155.3	223.8	648.6	445.3	226.1	230.7	424.8	726.3	618.9	*481.9*
85°	61.7	146.2	445.3	175.9	89.1	57.1	127.9	155.3	127.9	*95.9*
87.5°	0.0	34.3	77.7	0.0	6.9	4.6	9.1	11.4	11.4	*9.1*
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°
5641.1	0°	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1	5641.1
5645.7	2.5°	5666.2	5670.8	5684.5	5686.8	5654.8	5613.7	5597.7	5590.8	5563.4	5561.2
5682.2	5°	5734.7	5755.3	5734.7	5675.3	5533.7	5335.1	5184.3	5061.0	4949.1	4914.8
5807.8	7.5°	5871.8	5892.3	5830.6	5597.7	5241.4	4846.3	4490.0	4238.8	4012.7	3928.2
5960.8	10°	6068.2	6095.6	5901.4	5431.0	4800.6	4165.7	3562.8	3138.0	2806.8	2672.1
6168.7	12.5°	6314.8	6326.2	5940.3	5177.5	4227.4	3320.7	2466.5	2012.1	1717.4	1607.8
6419.9	15°	6586.6	6570.6	5944.8	4832.6	3446.3	2347.8	1610.1	1322.3	1203.6	1167.0
6671.1	17.5°	6872.1	6805.8	5853.5	4334.7	2589.9	1605.5	1194.4	1125.9	1105.4	1096.2
6920.0	20°	7153.0	7004.5	5686.8	3683.8	1859.0	1199.0	1084.8	1064.3	1052.9	1048.3
7171.3	22.5°	7408.8	7155.3	5401.3	2927.9	1349.7	1059.7	1025.4	1007.2	986.6	977.5
7415.6	25°	7657.7	7242.1	4999.3	2222.2	1080.3	991.2	963.8	929.5	902.1	890.7
7678.3	27.5°	7899.8	7296.9	4496.9	1644.4	963.8	927.2	877.0	829.0	808.5	803.9
7959.2	30°	8157.9	7315.1	3925.9	1226.4	893.0	847.3	774.2	719.4	708.0	710.3
8338.3	32.5°	8473.0	7342.5	3350.4	1004.9	833.6	751.4	664.6	607.5	598.4	607.5
8891.0	35°	8849.9	7397.4	2795.4	925.0	781.1	653.2	559.5	511.6	502.4	509.3
9599.0	37.5°	9361.5	7486.4	2277.0	909.0	737.7	571.0	470.5	431.6	431.6	433.9
10466.8	40°	10042.0	7723.9	1813.4	897.5	714.8	509.3	397.4	381.4	388.3	392.8
11572.2	42.5°	10871.1	8228.7	1500.5	883.8	689.7	481.9	360.8	354.0	365.4	370.0
12896.8	45°	11800.6	8868.2	1390.9	861.0	666.9	500.2	344.9	335.7	349.4	351.7
14381.3	47.5°	12762.1	9493.9	1377.2	835.9	644.0	527.6	340.3	319.7	335.7	338.0
15966.3	50°	13735.0	9902.7	1390.9	797.1	607.5	527.6	342.6	303.8	317.5	324.3
17610.7	52.5°	14714.8	10090.0	1381.7	712.6	543.6	495.6	342.6	290.0	303.8	308.3
19387.5	55°	15664.9	10053.5	1242.4	586.9	461.3	438.5	333.4	278.6	287.8	290.0
21066.1	57.5°	16416.2	9544.2	984.3	456.8	374.5	365.4	303.8	264.9	271.8	269.5
22605.5	60°	16809.1	8425.1	703.4	351.7	294.6	287.8	267.2	246.7	251.2	239.8
23909.5	62.5°	16813.6	6945.2	470.5	278.6	235.2	228.4	228.4	221.5	217.0	194.1
24919.0	65°	16455.1	5303.1	312.9	221.5	189.6	178.1	191.8	189.6	173.6	141.6
25227.3	67.5°	15642.0	3476.0	237.5	173.6	146.2	139.3	153.0	159.9	148.4	118.8
24103.7	70°	*13970.3*	*2023.5*	*196.4*	*134.7*	*109.6*	*102.8*	*123.3*	*137.0*	*123.3*	*95.9*
20602.5	72.5°	11604.2	1091.7	159.9	100.5	75.4	68.5	98.2	111.9	98.2	70.8
13218.9	75°	7529.8	584.7	123.3	66.2	38.8	43.4	73.1	82.2	68.5	45.7
3880.2	77.5°	2528.2	258.1	77.7	32.0	18.3	18.3	43.4	50.2	32.0	16.0
705.7	80°	564.1	107.3	32.0	13.7	6.9	6.9	9.1	9.1	4.6	0.0
217.0	82.5°	185.0	43.4	13.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0
54.8	85°	70.8	16.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.3	87.5°	27.4	2.3	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

180°
5641.1
5565.7
4894.3
3893.9
2615.0
1573.6
1167.0
1094.0
1043.7
975.2
886.1
799.3
710.3
605.2
507.0
431.6
392.8
370.0
354.0
340.3
326.6
308.3
290.0
269.5
237.5
187.3
137.0
116.5
91.4
68.5
41.1
13.7
0.0
0.0
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0.0
0.0

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