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: P951401

Luminaire Tested: **GALN-SB5C-760-U-T4W-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:	P951401
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5C-760-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30830 lumens
Efficiency:	N/A
Efficacy:	123.6 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G5
Input Watts (W):	249.5
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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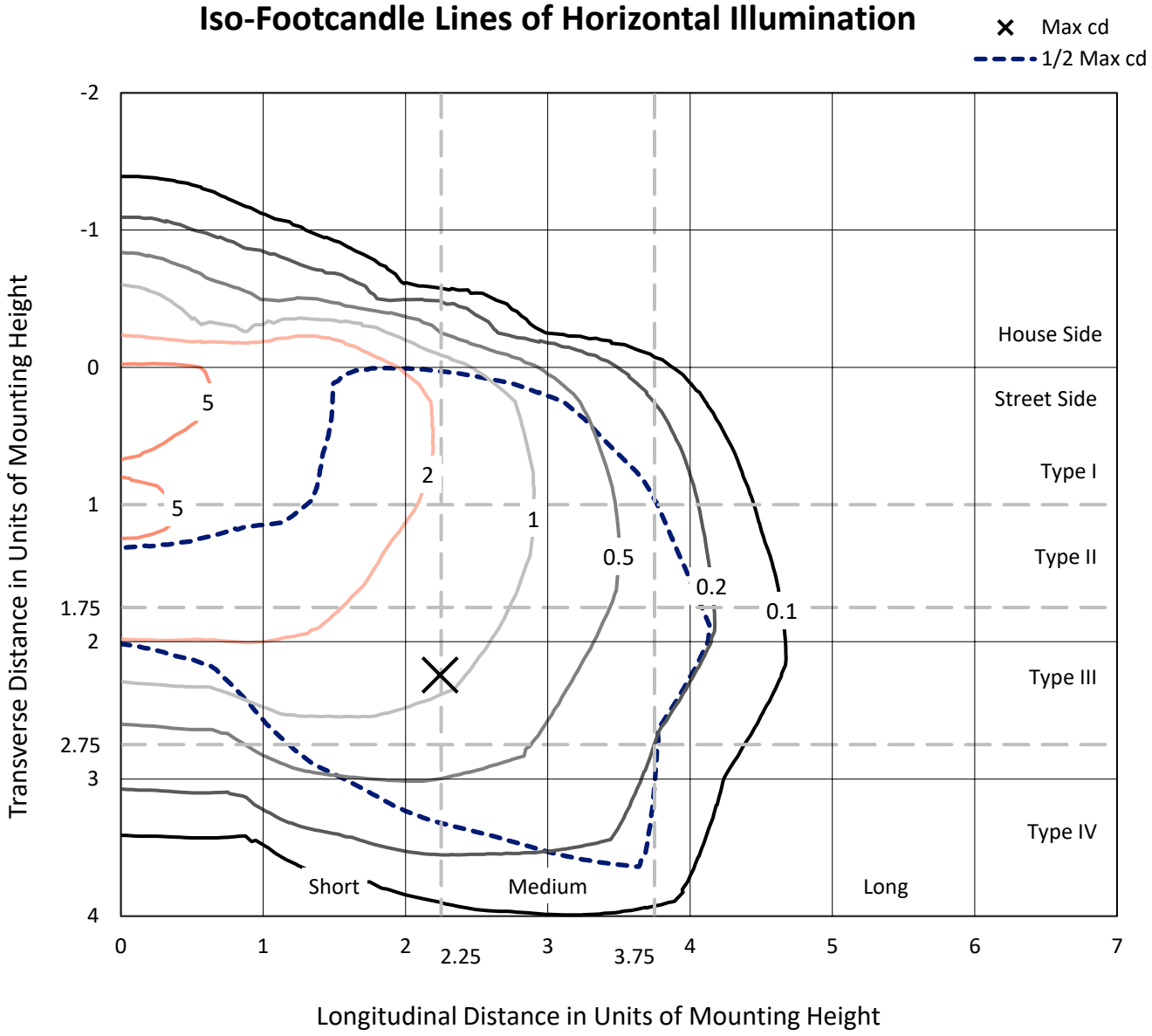
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type IV - Short - N/A

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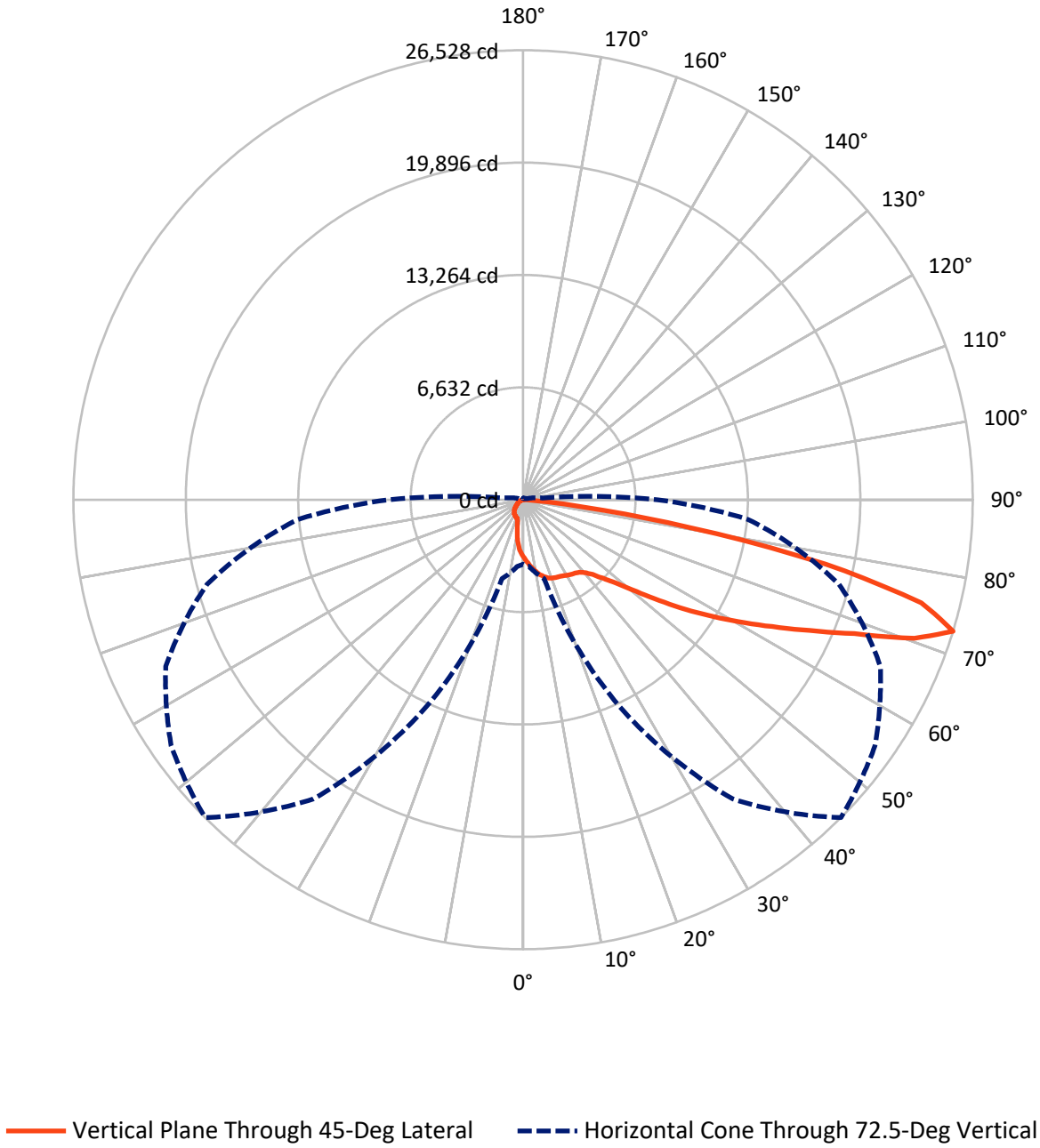
Luminous Intensity Polar Plot



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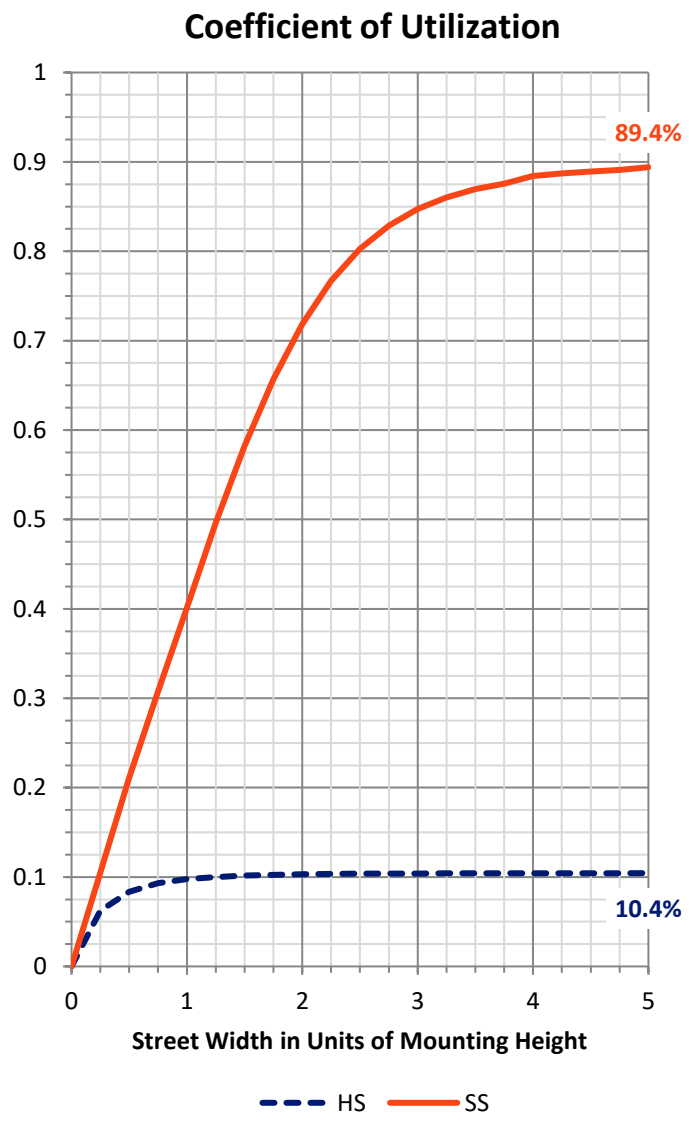
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.4	0.0	3239.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27590.6	0.0	27590.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	30830.0	0.0	30830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.2	1.0
10°-20°	930.0	3.0
20°-30°	1527.3	5.0
30°-40°	2166.0	7.0
40°-50°	3580.2	11.6
50°-60°	6431.5	20.9
60°-70°	8930.5	29.0
70°-80°	6477.9	21.0
80°-90°	468.3	1.5
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°	30830.0	100.0
0°-180°	30830.0	100.0



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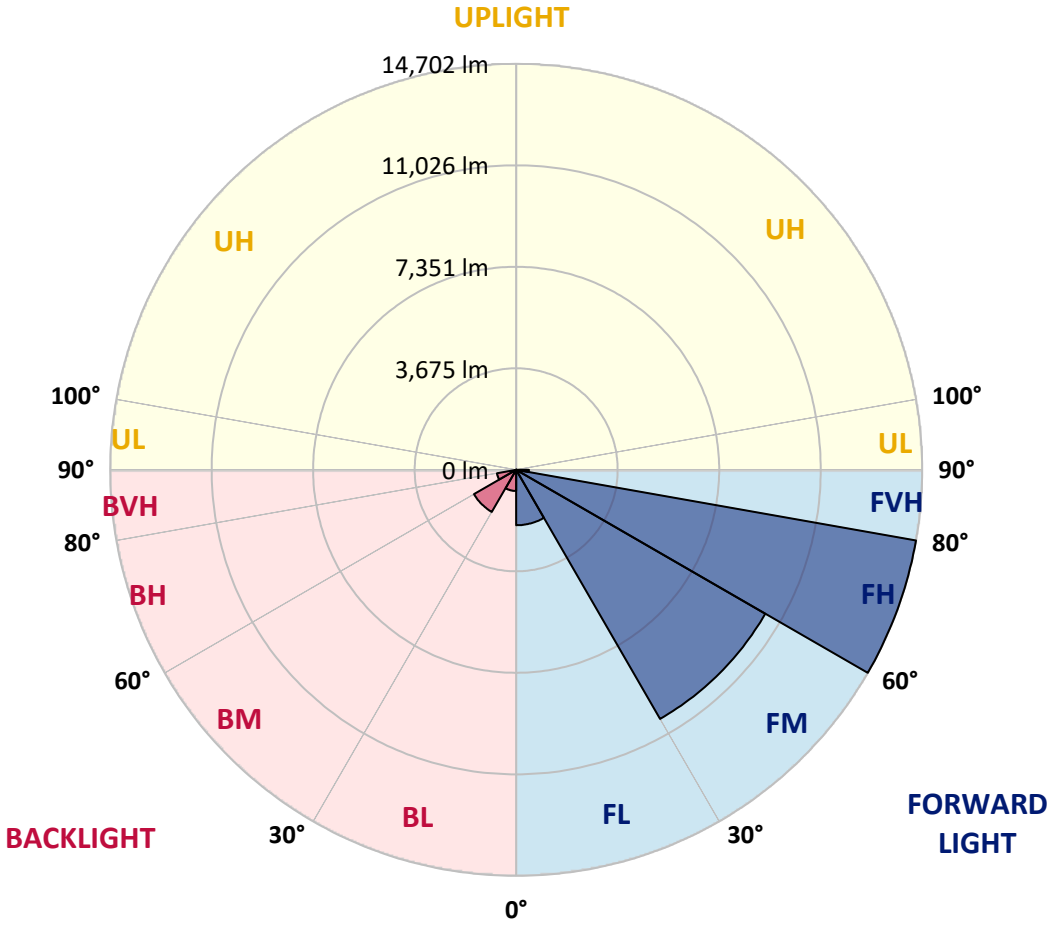
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2008.3	6.5			
FM	(30°-60°)	10416.0	33.8			
FH	(60°-80°)	14702.0	47.7			G5
FVH	(80°-90°)	464.4	1.5			G3/500
BL	(0°-30°)	767.3	2.5	B2/1000		
BM	(30°-60°)	1761.8	5.7	B2/2500		
BH	(60°-80°)	706.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3377.5	3377.5	3377.5	3377.5	3377.5	*3377.5*	3377.5	3377.5	3377.5	3377.5
2.5°	3688.9	3695.2	3691.0	3665.8	3623.7	*3600.6*	3587.9	3545.8	3518.5	3470.1
5°	4027.7	4053.0	4038.3	3987.8	3907.8	*3851.0*	3834.1	3747.9	3670.0	3579.5
7.5°	4387.6	4400.2	4372.9	4307.6	4200.3	*4103.5*	4088.8	3968.8	3844.7	3705.8
10°	4699.0	4713.8	4671.7	4577.0	4454.9	*4335.0*	4313.9	4181.4	4034.1	3863.6
12.5°	4960.0	4974.7	4920.0	4806.4	4671.7	*4547.5*	4526.5	4387.6	4225.5	4036.2
15°	5157.8	5185.1	5111.5	4989.4	4844.2	*4720.1*	4709.5	4572.8	4414.9	4204.5
17.5°	5273.5	5300.9	5231.4	5084.1	4960.0	*4854.8*	4842.1	4728.5	4581.2	4379.2
20°	5292.5	5317.7	5244.1	5115.7	5012.6	*4928.4*	4922.1	4840.0	4732.7	4539.1
22.5°	5235.6	5267.2	5199.9	5096.8	5025.2	*4981.0*	4972.6	4926.3	4865.3	4701.1
25°	5176.7	5202.0	5151.5	5061.0	5023.1	*5018.9*	5025.2	5016.8	5004.2	4865.3
27.5°	5172.5	5199.9	5143.0	5056.8	5035.7	*5079.9*	5086.2	5126.2	5136.7	5014.7
30°	5208.3	5227.2	5172.5	5082.0	5071.5	*5172.5*	5174.6	5246.2	5263.0	5140.9
32.5°	5286.1	5307.2	5252.5	5119.9	5105.2	*5246.2*	5252.5	5347.2	5374.5	5275.6
35°	5469.2	5494.5	5431.3	5225.1	5172.5	*5315.6*	5334.5	5446.1	5500.8	5418.7
37.5°	5925.9	5852.2	5765.9	5437.7	5326.1	*5425.0*	5456.6	5587.1	5683.9	5589.2
40°	7060.1	6828.6	6559.3	5799.6	5595.5	*5658.6*	5683.9	5814.3	5946.9	5854.3
42.5°	8762.5	8489.0	8055.5	6632.9	6001.6	*6033.2*	6052.1	6165.8	6353.1	6279.4
45°	10279.8	10180.9	9739.0	8055.5	6761.3	*6605.6*	6628.7	6687.6	6963.3	6936.0
47.5°	11445.6	11388.8	11047.9	9688.5	8045.0	*7306.3*	7371.6	7398.9	7796.6	7893.4
50°	12342.1	12321.0	12015.9	11140.5	9722.1	*8339.6*	8362.7	8303.8	8899.3	9139.2
52.5°	13188.0	13259.5	13034.4	12489.4	11512.9	*9692.7*	9688.5	9410.7	10214.5	10576.5
55°	13951.9	13977.1	14000.3	13865.6	13314.3	*11233.1*	11193.1	10738.5	11740.2	12114.8
57.5°	14669.5	14680.0	14886.2	15161.9	15189.2	*12887.1*	12813.4	12268.4	13406.9	13674.1
60°	15151.4	15199.8	15635.4	16401.4	16735.9	*14593.7*	14553.7	13998.2	15103.0	15227.1
62.5°	14456.9	14751.5	15850.0	17369.4	18196.4	*16485.5*	16466.6	15944.7	16887.5	16786.5
65°	11702.3	12201.1	14132.9	18023.8	19629.4	*18598.3*	18625.7	18070.1	18720.4	18392.1
67.5°	8185.9	8712.0	10997.4	18076.4	21230.9	*21079.3*	21237.2	20366.0	20666.9	19930.4
70°	5660.7	5932.2	7420.0	16944.3	22478.7	*24496.8*	24492.6	23185.8	22602.9	20631.1
72.5°	*3806.8*	*3947.8*	*4819.0*	*13442.6*	*21561.2*	*26527.5*	*26405.5*	*25340.7*	*23255.2*	*19294.8*
75°	1605.6	1708.7	2230.6	7554.6	17057.9	*24269.5*	23939.2	22394.6	20662.7	15193.5
77.5°	509.3	553.4	879.6	2704.1	9396.0	*18242.7*	17893.3	13985.6	13848.8	7622.0
80°	242.0	282.0	494.5	1085.8	3697.4	*9922.0*	9873.6	6344.6	5957.4	2058.1
82.5°	105.2	124.2	273.6	580.8	1654.0	*3539.5*	3611.1	2159.1	1786.6	780.7
85°	33.7	44.2	126.3	267.3	698.6	*879.6*	869.1	513.5	719.7	425.1
87.5°	0.0	0.0	42.1	61.0	71.5	*50.5*	56.8	44.2	199.9	117.8
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°
3377.5	0°	3377.5	3377.5	3377.5	3377.5	3377.5	3377.5	3377.5	3377.5	3377.5	3377.5
3419.6	2.5°	3394.3	3360.7	3301.7	3247.0	3198.6	3150.2	3120.8	3078.7	3074.5	3074.5
3474.3	5°	3417.5	3362.8	3257.5	3146.0	3017.6	2895.6	2773.5	2655.7	2617.8	2590.5
3562.7	7.5°	3484.8	3398.5	3232.3	3019.8	2775.6	2508.4	2321.1	2119.1	2041.2	1999.1
3680.5	10°	3581.6	3463.8	3211.2	2838.8	2443.2	2079.1	1811.9	1593.0	1508.8	1473.0
3808.9	12.5°	3688.9	3543.7	3173.4	2613.6	2079.1	1643.5	1382.6	1281.6	1268.9	1268.9
3962.5	15°	3817.3	3640.5	3108.1	2348.5	1698.2	1300.5	1207.9	1212.1	1224.7	1233.2
4111.9	17.5°	3949.9	3743.7	3005.0	2051.7	1361.5	1170.0	1172.1	1178.4	1189.0	1197.4
4273.9	20°	4093.0	3846.8	2868.2	1736.1	1167.9	1132.1	1138.5	1144.8	1153.2	1157.4
4425.5	22.5°	4246.6	3943.6	2706.2	1426.8	1102.7	1100.6	1102.7	1109.0	1119.5	1119.5
4602.2	25°	4410.7	4050.9	2521.0	1201.6	1069.0	1069.0	1073.2	1077.4	1085.8	1085.8
4772.7	27.5°	4579.1	4149.8	2325.3	1083.7	1039.6	1037.4	1037.4	1043.8	1048.0	1050.1
4941.0	30°	4764.3	4265.5	2129.6	1058.5	1016.4	1005.9	999.6	1003.8	1008.0	1010.1
5117.8	32.5°	4953.7	4377.1	1954.9	1069.0	993.3	974.3	953.3	949.1	949.1	957.5
5300.9	35°	5164.1	4499.1	1820.3	1104.8	980.6	928.0	894.4	875.4	877.5	890.1
5519.7	37.5°	5416.6	4646.4	1721.4	1136.4	972.2	875.4	820.7	797.6	782.8	797.6
5820.6	40°	5747.0	4863.2	1649.8	1161.6	961.7	814.4	740.7	702.9	675.5	683.9
6287.8	42.5°	6233.1	5204.1	1622.5	1163.7	938.5	742.8	658.7	608.2	568.2	570.3
6990.7	45°	6914.9	5742.8	1763.5	1136.4	888.0	665.0	572.4	505.0	479.8	473.5
8040.7	47.5°	7849.2	6527.7	2089.6	1079.5	814.4	589.2	488.2	431.4	412.5	401.9
9419.1	50°	9101.3	7535.7	2451.6	1016.4	740.7	517.7	418.8	383.0	370.4	359.8
11054.2	52.5°	10553.3	8558.4	2748.3	953.3	667.1	454.5	374.6	353.5	343.0	334.6
12632.5	55°	11885.4	9263.4	2731.5	885.9	595.5	404.0	343.0	330.4	317.8	309.3
13991.9	57.5°	12714.5	9362.3	2251.7	812.3	513.5	364.1	313.5	305.1	290.4	279.9
15168.2	60°	13095.4	8798.3	1578.3	715.5	431.4	326.2	282.0	277.8	258.8	244.1
16281.4	62.5°	13164.9	7750.3	1052.2	595.5	359.8	290.4	250.4	244.1	218.9	193.6
17186.3	65°	12882.9	6252.0	728.1	465.1	307.2	252.5	214.6	202.0	174.7	149.4
17400.9	67.5°	11990.6	4389.7	507.1	334.6	260.9	199.9	170.5	166.2	145.2	124.2
16306.7	70°	10355.5	2502.1	338.8	250.4	206.2	136.8	134.7	138.9	117.8	101.0
13322.7	72.5°	*7939.7*	*1144.8*	*210.4*	*183.1*	*141.0*	*92.6*	*107.3*	*109.4*	*90.5*	*75.8*
8312.2	75°	4673.8	490.3	132.6	117.8	71.5	61.0	77.9	80.0	61.0	48.4
3038.7	77.5°	1590.9	185.2	84.2	69.4	35.8	33.7	50.5	50.5	33.7	18.9
610.3	80°	361.9	69.4	42.1	27.4	16.8	14.7	16.8	14.7	8.4	2.1
187.3	82.5°	103.1	27.4	16.8	10.5	6.3	6.3	2.1	0.0	0.0	0.0
65.2	85°	29.5	12.6	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0
23.1	87.5°	12.6	2.1	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°
3377.5
3085.0
2603.1
2005.5
1473.0
1268.9
1233.2
1197.4
1159.5
1123.7
1088.0
1052.2
1014.3
963.8
896.5
793.3
679.7
561.9
465.1
395.6
357.7
332.5
305.1
277.8
239.9
181.0
141.0
117.8
92.6
67.3
42.1
14.7
0.0
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