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: P949190

Luminaire Tested: **GALN-SB4A-735-U-T2R-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P949190
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB4A-735-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15222 lumens
Efficiency:	N/A
Efficacy:	133.5 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2
Input Watts (W):	114
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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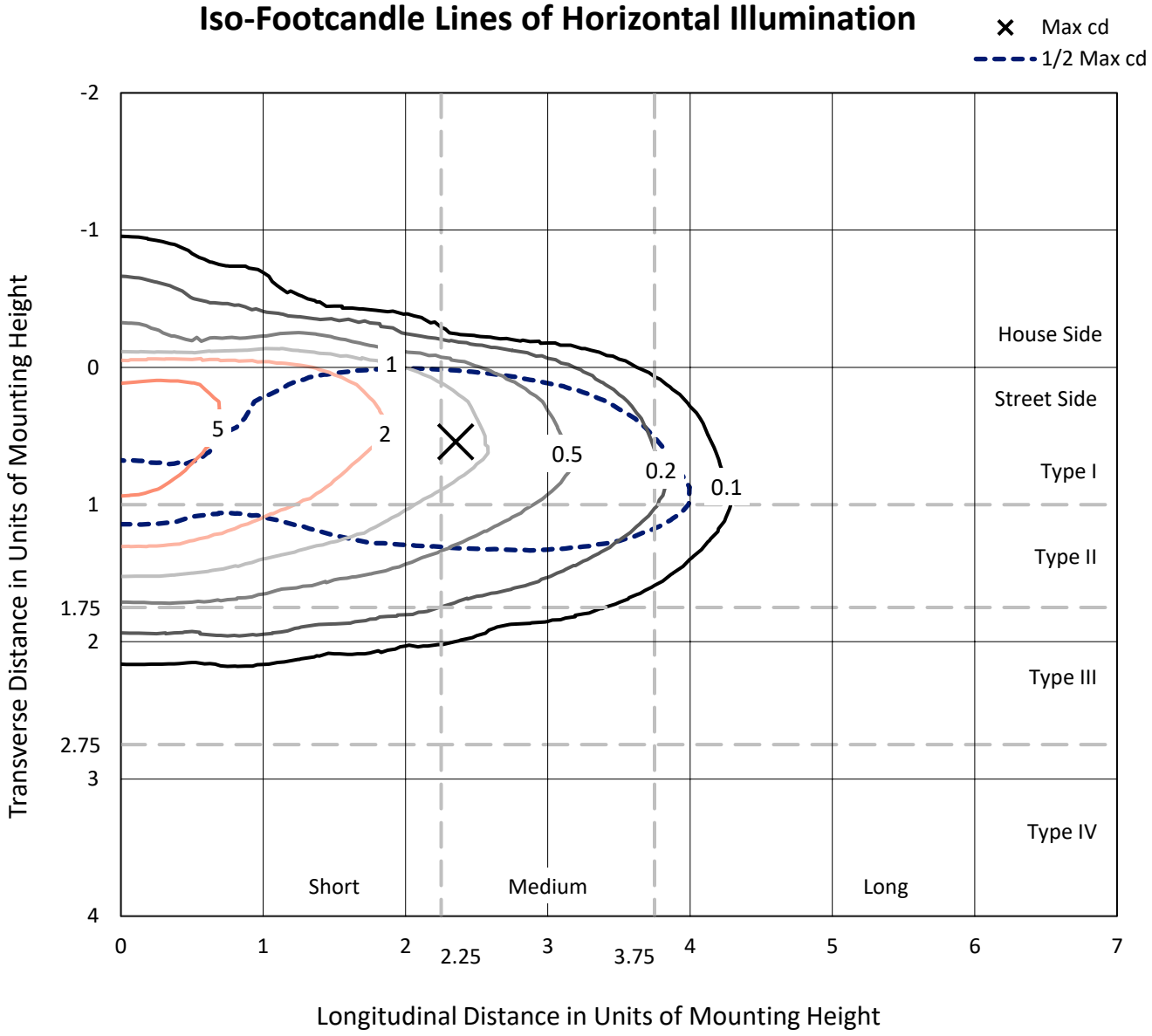
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Medium - N/A

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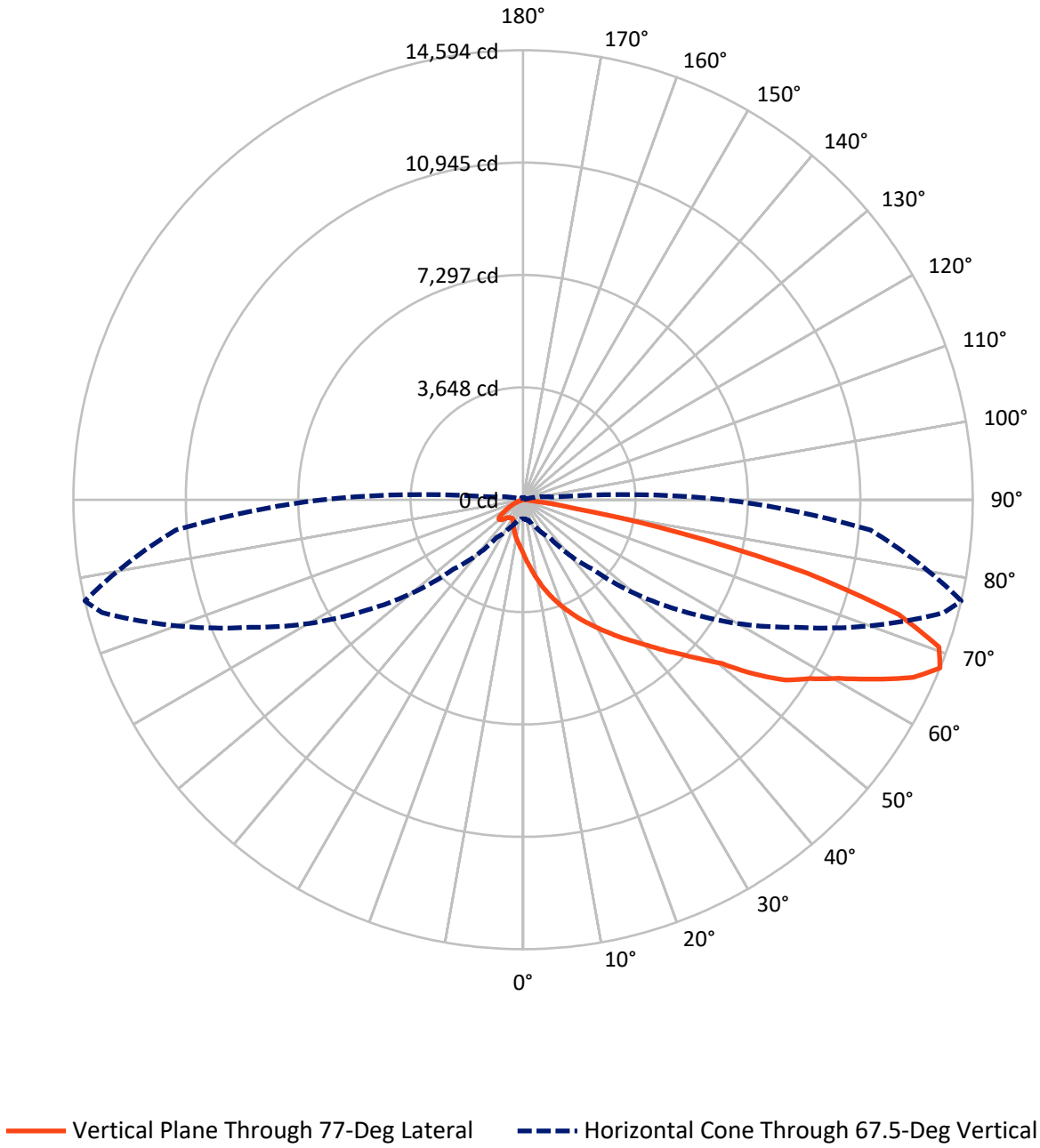
Luminous Intensity Polar Plot



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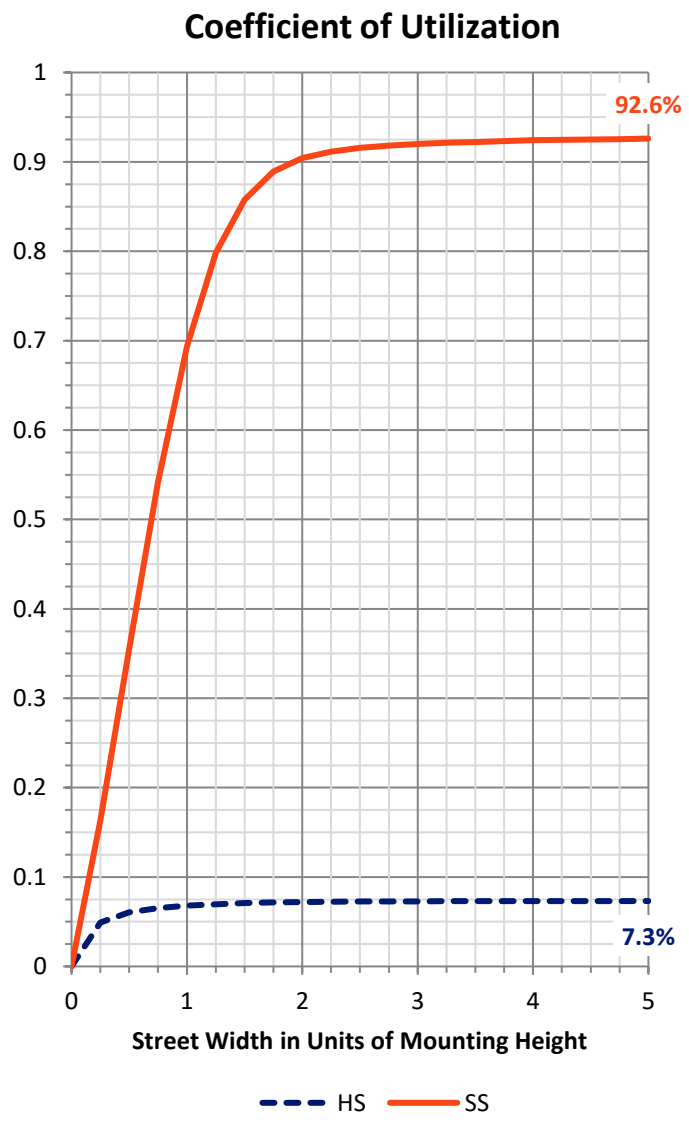
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.9	0.0	1119.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	14102.1	0.0	14102.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	15222.0	0.0	15222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	1.2
10°-20°	627.4	4.1
20°-30°	1210.7	8.0
30°-40°	2101.8	13.8
40°-50°	3051.8	20.0
50°-60°	3504.6	23.0
60°-70°	3042.6	20.0
70°-80°	1433.1	9.4
80°-90°	70.9	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°	15222.0	100.0
0°-180°	15222.0	100.0



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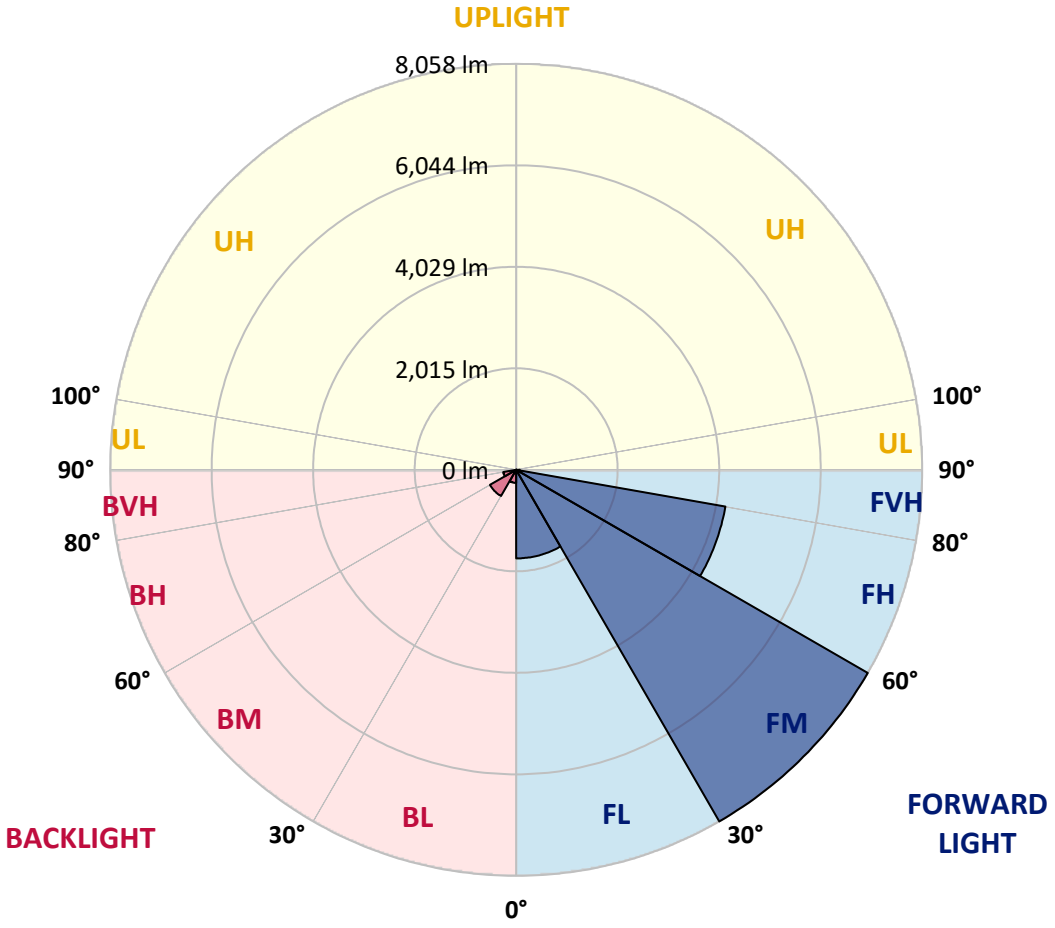
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1758.0	11.5			
FM	(30°-60°)	8058.1	52.9			
FH	(60°-80°)	4216.5	27.7			G2/5000
FVH	(80°-90°)	69.6	0.5			G1/100
BL	(0°-30°)	259.3	1.7	B1/500		
BM	(30°-60°)	600.0	3.9	B1/1000		
BH	(60°-80°)	259.3	1.7	B1/500		G1/500
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	*1755.3*
2.5°	2430.2	2445.3	2423.6	2382.0	2319.6	2279.0	2179.7	2086.2	1982.2	*1949.1*
5°	2962.4	2975.6	2951.1	2905.7	2822.5	2743.1	2612.7	2417.0	2213.8	*2148.5*
7.5°	3356.6	3364.1	3354.7	3313.1	3233.7	3143.9	2998.3	2766.7	2465.2	*2393.4*
10°	3640.1	3664.7	3661.9	3645.8	3592.9	3520.1	3365.1	3101.3	2746.9	*2654.2*
12.5°	3828.2	3855.7	3871.7	3907.6	3904.8	3858.5	3722.4	3443.5	3027.6	*2918.9*
15°	3883.1	3912.4	3973.8	4057.0	4130.7	4154.4	4058.9	3779.1	3336.7	*3197.8*
17.5°	3851.9	3897.2	3971.0	4102.4	4264.0	4370.8	4360.4	4103.3	3617.5	*3458.7*
20°	3920.9	3964.4	4022.0	4132.6	4320.7	4514.5	4592.0	4413.3	3896.3	*3729.9*
22.5°	4302.8	4295.2	4300.9	4318.8	4431.3	4623.2	4782.9	4695.0	4172.3	*4002.2*
25°	4907.7	4873.7	4816.0	4718.7	4690.3	4782.9	4949.3	4944.6	4463.4	*4281.0*
27.5°	5601.5	5595.9	5460.7	5226.3	5093.9	5058.0	5137.4	5187.5	4751.7	*4557.0*
30°	6266.0	6281.2	6098.7	5837.8	5594.9	5454.1	5382.2	5418.1	5044.8	*4854.8*
32.5°	6844.5	6860.6	6662.1	6356.8	6056.2	5886.0	5734.8	5645.9	5364.3	*5157.3*
35°	7333.2	7349.3	7121.5	6784.0	6463.6	6309.5	6138.4	5895.5	5685.6	*5492.8*
37.5°	7769.9	7765.2	7459.9	7119.6	6804.8	6682.9	6593.1	6202.7	6016.5	*5830.3*
40°	8028.0	8047.8	7786.9	7411.7	7106.4	7017.5	7011.8	6583.6	6398.4	*6217.8*
42.5°	8103.6	8138.6	7949.5	7641.4	7364.4	7268.0	7416.4	6995.8	6842.6	*6666.8*
45°	7967.5	8001.5	7915.5	7701.9	7540.2	7477.8	7764.2	7423.0	7317.1	*7143.2*
47.5°	7570.5	7613.0	7633.8	7588.4	7586.5	7649.9	8076.2	7872.9	7880.5	*7702.8*
50°	6802.0	6873.8	7064.8	7225.5	7474.1	7786.0	8379.6	8360.7	8515.7	*8362.6*
52.5°	5404.9	5507.0	6164.9	6604.4	7163.1	7760.5	8713.3	9143.4	9630.2	*9406.1*
55°	4343.4	4343.4	4878.4	5700.8	6556.2	7592.2	8858.8	9651.9	10389.2	*10336.3*
57.5°	3540.9	3583.4	3924.7	4651.6	5678.1	7191.4	8948.6	9971.4	11000.8	*10962.0*
60°	2185.4	2277.1	2921.8	3639.2	4679.0	6477.8	8891.9	10294.7	11742.8	*11774.0*
62.5°	1230.7	1264.7	1552.1	2618.3	3638.2	5518.3	8458.1	10475.2	12691.8	*12824.1*
65°	849.8	866.8	977.4	1629.6	2521.9	4393.5	7610.2	10362.7	13642.7	*13910.2*
67.5°	*617.2*	*625.8*	*694.8*	*995.3*	*1496.3*	*3185.5*	*6281.2*	*9795.6*	*14146.5*	*14593.6*
70°	474.5	480.2	530.3	654.1	883.8	1966.1	4561.8	8667.9	13781.7	*14315.7*
72.5°	385.7	391.3	430.1	484.0	586.1	1162.7	2764.8	7039.2	12171.0	*12747.6*
75°	325.2	332.7	367.7	402.7	459.4	746.7	1296.9	4902.0	9152.8	*9530.9*
77.5°	180.5	166.4	298.7	333.7	387.6	472.6	606.8	2884.9	5126.1	*5231.0*
80°	112.5	116.3	237.3	268.4	297.8	238.2	277.9	1110.7	1777.1	*1688.2*
82.5°	6.6	15.1	182.4	193.8	204.2	102.1	104.9	377.2	428.2	*393.2*
85°	0.0	0.0	83.2	67.1	70.9	29.3	30.2	87.9	57.7	*62.4*
87.5°	0.0	0.0	0.0	1.9	0.0	2.8	5.7	7.6	2.8	*3.8*
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°
1755.3	0°	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3	1755.3
1845.1	2.5°	1779.0	1712.8	1578.6	1447.2	1340.4	1241.1	1170.2	1103.1	1069.1	1067.2
1964.2	5°	1832.8	1693.9	1425.4	1188.2	997.2	844.1	744.9	674.0	638.0	625.8
2110.7	7.5°	1908.5	1699.6	1291.2	961.3	736.3	605.0	548.2	525.6	518.0	509.5
2276.2	10°	2003.9	1712.8	1171.2	774.2	580.4	514.2	491.5	482.1	476.4	470.7
2462.4	12.5°	2110.7	1725.1	1052.1	642.8	510.4	476.4	460.3	449.0	441.4	434.8
2653.3	15°	2214.7	1732.6	928.2	551.1	474.5	447.1	430.1	417.8	407.4	399.8
2840.5	17.5°	2317.7	1743.0	812.0	496.3	445.2	417.8	400.8	385.7	377.2	368.6
3037.1	20°	2432.1	1741.1	702.3	457.5	415.9	388.5	370.5	356.4	347.9	338.4
3245.0	22.5°	2538.0	1731.7	605.9	424.4	385.7	359.2	339.3	325.2	316.7	309.1
3457.7	25°	2659.9	1724.1	525.6	394.2	357.3	330.8	309.1	295.9	286.4	279.8
3671.3	27.5°	2777.1	1712.8	467.0	366.8	329.9	304.4	283.6	268.4	259.9	255.2
3891.6	30°	2892.5	1709.9	445.2	340.3	305.3	279.8	259.0	244.8	238.2	236.3
4133.6	32.5°	3031.4	1717.5	454.7	330.8	282.6	257.1	237.3	226.9	220.2	220.2
4403.0	35°	3179.8	1715.6	468.8	339.3	267.5	234.4	219.3	212.7	206.1	206.1
4701.6	37.5°	3366.0	1718.5	480.2	353.5	261.8	215.5	207.0	198.5	194.7	194.7
5028.7	40°	3643.9	1812.0	474.5	365.8	259.9	202.3	185.3	182.4	179.6	179.6
5398.3	42.5°	3984.2	2015.3	482.1	366.8	259.0	192.8	170.1	175.8	169.2	168.3
5815.1	45°	4356.6	2237.4	530.3	346.9	258.1	188.1	162.6	169.2	158.8	158.8
6298.2	47.5°	4726.2	2457.6	579.4	318.5	255.2	187.2	156.0	152.2	149.3	150.3
6927.7	50°	5235.7	2637.2	598.3	279.8	248.6	185.3	143.7	144.6	142.7	144.6
7815.3	52.5°	5790.6	2675.0	575.7	236.3	229.7	179.6	135.2	139.0	138.0	139.9
8440.1	55°	6136.5	2634.4	475.5	196.6	200.4	156.9	126.7	134.2	134.2	134.2
9050.7	57.5°	6493.8	2461.4	337.5	159.7	166.4	128.6	119.1	129.5	128.6	127.6
9786.1	60°	6750.9	2181.6	222.1	131.4	132.3	105.9	110.6	121.9	121.0	116.3
10544.2	62.5°	6942.8	1872.5	142.7	111.5	101.1	95.5	101.1	110.6	106.8	96.4
11187.0	65°	6921.1	1444.3	109.6	95.5	83.2	83.2	87.9	96.4	85.1	68.1
11309.9	67.5°	*6517.5*	*977.4*	*90.7*	*80.3*	*69.9*	*69.0*	*72.8*	*80.3*	*72.8*	*57.7*
10680.3	70°	5796.2	639.0	72.8	62.4	55.8	51.0	58.6	69.0	61.4	46.3
9092.3	72.5°	4704.5	389.4	54.8	45.4	40.6	33.1	46.3	56.7	49.2	34.0
6322.7	75°	3043.7	198.5	37.8	29.3	21.7	19.9	34.0	42.5	34.0	20.8
2805.5	77.5°	1164.5	83.2	20.8	13.2	11.3	9.5	18.9	25.5	14.2	4.7
543.5	80°	224.0	35.0	10.4	6.6	5.7	3.8	2.8	1.9	0.0	0.0
96.4	82.5°	38.8	11.3	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
18.9	85°	13.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.6	87.5°	4.7	0.0	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°
1755.3
1065.3
623.9
507.6
468.8
432.9
398.9
367.7
337.5
308.1
278.8
255.2
235.4
220.2
206.1
194.7
179.6
167.3
158.8
150.3
144.6
139.9
134.2
127.6
116.3
94.5
66.2
55.8
44.4
32.1
18.0
3.8
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