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: P950624

Luminaire Tested: **GALN-SB5A-735-U-T4W-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:	P950624
	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-SB5A-735-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 70 CRI, 3500K, 350mA 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:	17454 lumens
Efficiency:	N/A
Efficacy:	123.2 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G4
Input Watts (W):	141.7
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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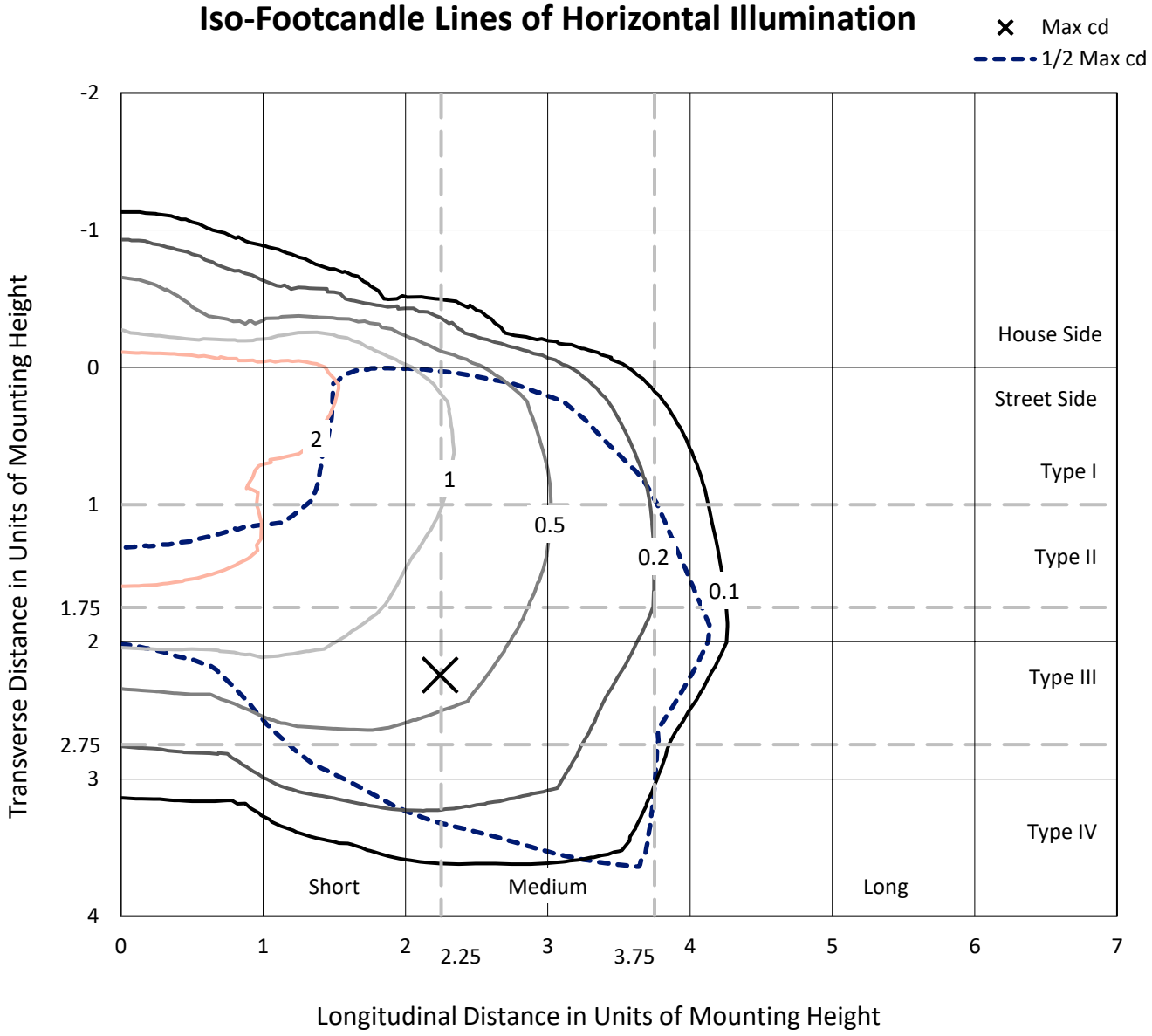
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - N/A

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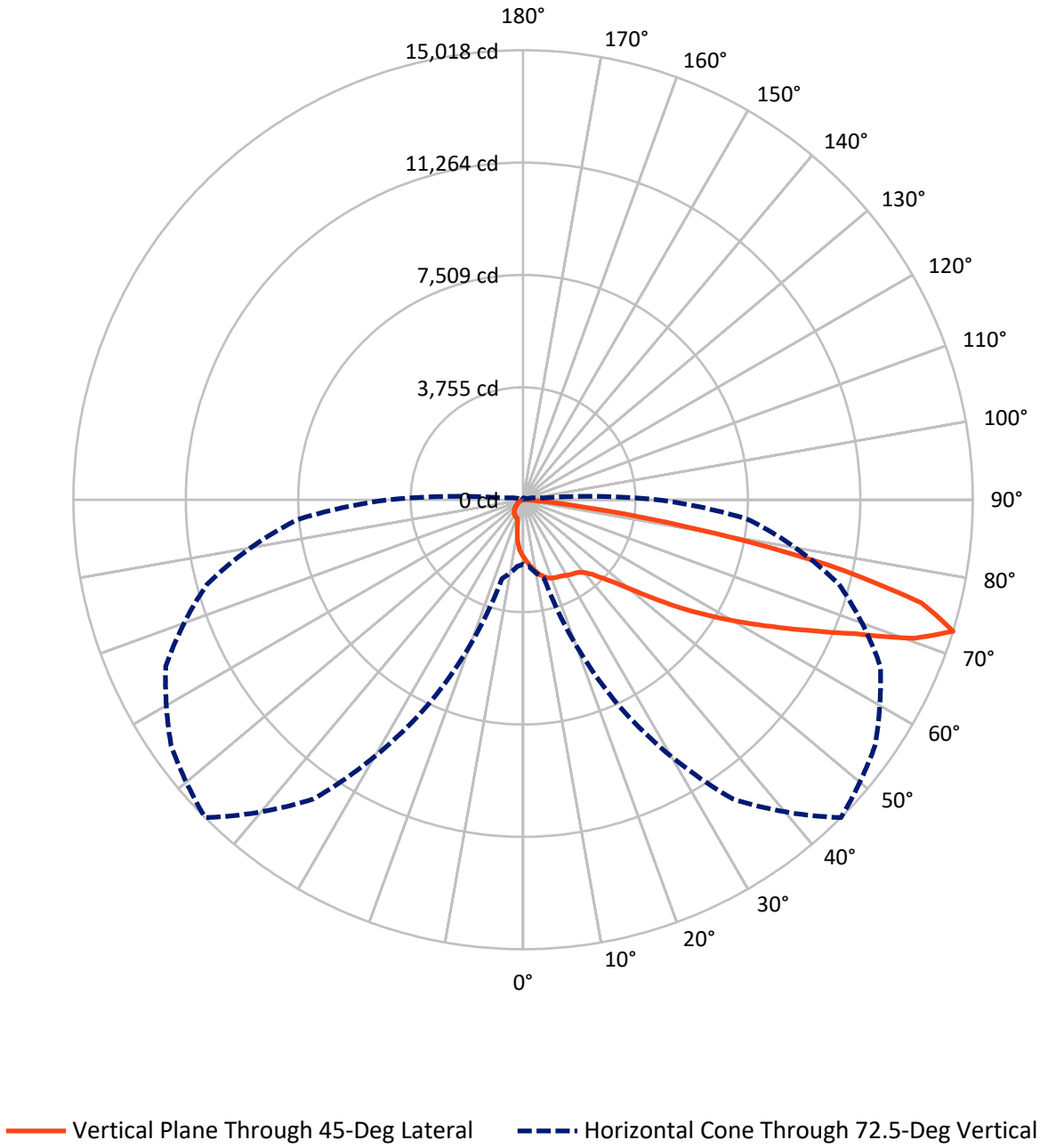
Luminous Intensity Polar Plot



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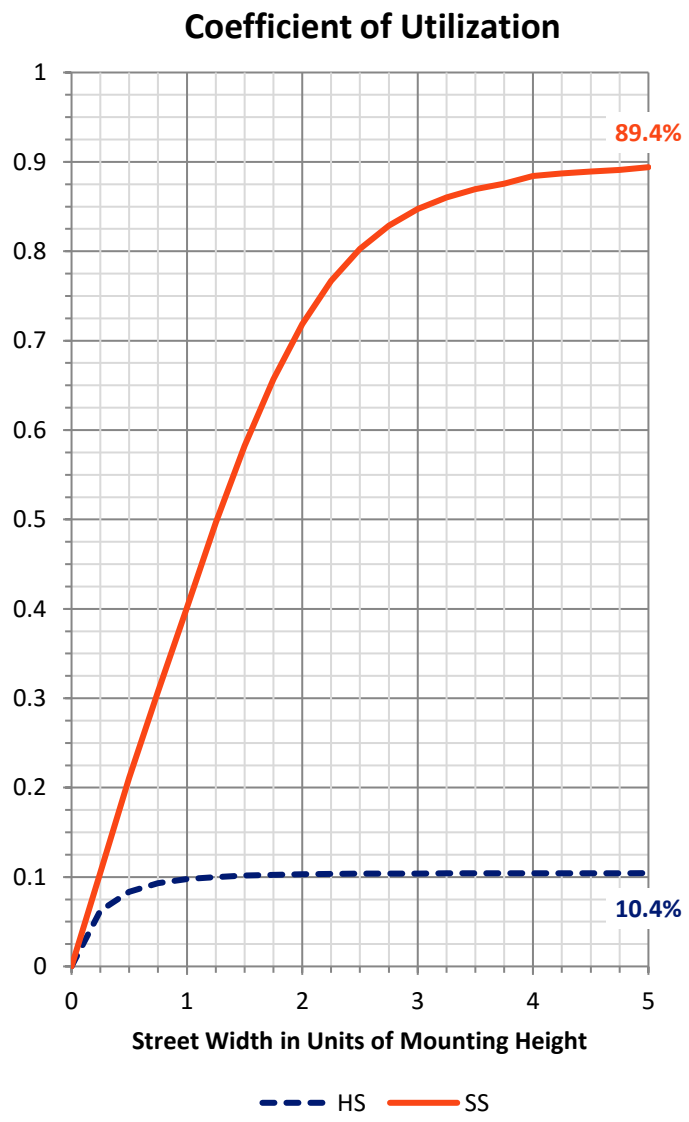
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1833.9	0.0	1833.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15620.1	0.0	15620.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	17454.0	0.0	17454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	526.5	3.0
20°-30°	864.6	5.0
30°-40°	1226.3	7.0
40°-50°	2026.9	11.6
50°-60°	3641.1	20.9
60°-70°	5055.9	29.0
70°-80°	3667.4	21.0
80°-90°	265.1	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°	17454.0	100.0
0°-180°	17454.0	100.0



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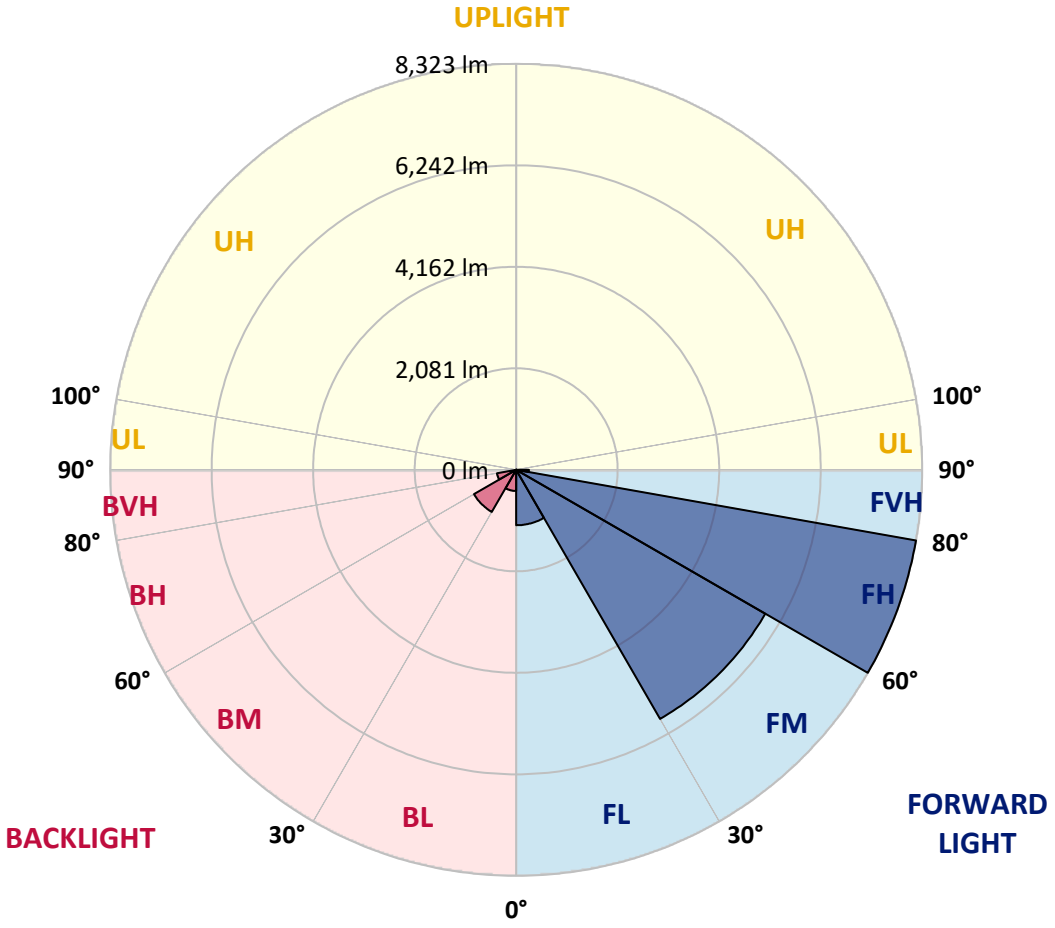
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1137.0	6.5			
FM	(30°-60°)	5896.9	33.8			
FH	(60°-80°)	8323.3	47.7			G4/12000
FVH	(80°-90°)	262.9	1.5			G3/500
BL	(0°-30°)	434.4	2.5	B1/500		
BM	(30°-60°)	997.4	5.7	B1/1000		
BH	(60°-80°)	399.9	2.3	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G4
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1912.1	1912.1	1912.1	1912.1	1912.1	*1912.1*	1912.1	1912.1	1912.1	1912.1
2.5°	2088.4	2092.0	2089.6	2075.3	2051.5	*2038.4*	2031.3	2007.4	1991.9	1964.5
5°	2280.3	2294.5	2286.2	2257.6	2212.3	*2180.2*	2170.6	2121.8	2077.7	2026.5
7.5°	2484.0	2491.1	2475.6	2438.7	2377.9	*2323.1*	2314.8	2246.9	2176.6	2098.0
10°	2660.3	2668.6	2644.8	2591.2	2522.1	*2454.2*	2442.3	2367.2	2283.8	2187.3
12.5°	2808.0	2816.4	2785.4	2721.1	2644.8	*2574.5*	2562.6	2484.0	2392.2	2285.0
15°	2920.0	2935.5	2893.8	2824.7	2742.5	*2672.2*	2666.2	2588.8	2499.5	2380.3
17.5°	2985.5	3001.0	2961.7	2878.3	2808.0	*2748.5*	2741.3	2677.0	2593.6	2479.2
20°	2996.3	3010.6	2968.9	2896.2	2837.8	*2790.2*	2786.6	2740.1	2679.4	2569.8
22.5°	2964.1	2982.0	2943.8	2885.5	2845.0	*2819.9*	2815.2	2789.0	2754.4	2661.5
25°	2930.7	2945.0	2916.4	2865.2	2843.8	*2841.4*	2845.0	2840.2	2833.0	2754.4
27.5°	2928.3	2943.8	2911.7	2862.8	2850.9	*2875.9*	2879.5	2902.1	2908.1	2839.0
30°	2948.6	2959.3	2928.3	2877.1	2871.2	*2928.3*	2929.5	2970.0	2979.6	2910.5
32.5°	2992.7	3004.6	2973.6	2898.6	2890.2	*2970.0*	2973.6	3027.2	3042.7	2986.7
35°	3096.3	3110.6	3074.9	2958.1	2928.3	*3009.4*	3020.1	3083.2	3114.2	3067.7
37.5°	3354.9	3313.2	3264.3	3078.5	3015.3	*3071.3*	3089.2	3163.0	3217.8	3164.2
40°	3997.0	3865.9	3713.4	3283.4	3167.8	*3203.6*	3217.8	3291.7	3366.8	3314.3
42.5°	4960.8	4805.9	4560.5	3755.1	3397.7	*3415.6*	3426.3	3490.7	3596.7	3555.0
45°	5819.8	5763.8	5513.6	4560.5	3827.8	*3739.7*	3752.8	3786.1	3942.2	3926.7
47.5°	6479.8	6447.6	6254.6	5485.0	4554.5	*4136.4*	4173.3	4188.8	4414.0	4468.8
50°	6987.3	6975.4	6802.6	6307.0	5504.1	*4721.3*	4734.4	4701.1	5038.2	5174.0
52.5°	7466.2	7506.7	7379.2	7070.7	6517.9	*5487.4*	5485.0	5327.7	5782.8	5987.7
55°	7898.7	7913.0	7926.1	7849.8	7537.7	*6359.4*	6336.8	6079.5	6646.6	6858.6
57.5°	8304.9	8310.9	8427.6	8583.7	8599.2	*7295.9*	7254.2	6945.6	7590.1	7741.4
60°	8577.7	8605.1	8851.8	9285.4	9474.8	*8262.0*	8239.4	7924.9	8550.3	8620.6
62.5°	8184.6	8351.4	8973.3	9833.4	10301.6	*9333.1*	9322.3	9026.9	9560.6	9503.4
65°	6625.1	6907.5	8001.1	10203.9	11112.9	*10529.2*	10544.7	10230.2	10598.3	10412.4
67.5°	4634.4	4932.2	6226.0	10233.7	12019.6	*11933.8*	12023.1	11529.9	11700.3	11283.3
70°	3204.7	3358.4	4200.7	9592.8	12726.0	*13868.5*	13866.2	13126.3	12796.3	11680.0
72.5°	*2155.2*	*2235.0*	*2728.2*	*7610.4*	*12206.6*	*15018.2*	*14949.1*	*14346.3*	*13165.7*	*10923.5*
75°	909.0	967.4	1262.8	4277.0	9657.1	*13739.9*	13552.8	12678.4	11697.9	8601.6
77.5°	288.3	313.3	498.0	1530.9	5319.4	*10327.8*	10130.1	7917.7	7840.3	4315.1
80°	137.0	159.6	280.0	614.7	2093.2	*5617.2*	5589.8	3591.9	3372.7	1165.1
82.5°	59.6	70.3	154.9	328.8	936.4	*2003.9*	2044.4	1222.3	1011.5	442.0
85°	19.1	25.0	71.5	151.3	395.5	*498.0*	492.0	290.7	407.4	240.7
87.5°	0.0	0.0	23.8	34.5	40.5	*28.6*	32.2	25.0	113.2	66.7
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°
1912.1	0°	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1	1912.1
1935.9	2.5°	1921.7	1902.6	1869.2	1838.3	1810.9	1783.5	1766.8	1743.0	1740.6	1740.6
1966.9	5°	1934.8	1903.8	1844.2	1781.1	1708.4	1639.3	1570.2	1503.5	1482.0	1466.6
2017.0	7.5°	1972.9	1924.0	1829.9	1709.6	1571.4	1420.1	1314.1	1199.7	1155.6	1131.8
2083.7	10°	2027.7	1961.0	1818.0	1607.1	1383.2	1177.1	1025.8	901.9	854.2	833.9
2156.4	12.5°	2088.4	2006.2	1796.6	1479.7	1177.1	930.4	782.7	725.5	718.4	718.4
2243.3	15°	2161.1	2061.0	1759.6	1329.6	961.4	736.3	683.8	686.2	693.4	698.1
2327.9	17.5°	2236.2	2119.4	1701.3	1161.6	770.8	662.4	663.6	667.2	673.1	677.9
2419.6	20°	2317.2	2177.8	1623.8	982.9	661.2	640.9	644.5	648.1	652.9	655.2
2505.4	22.5°	2404.2	2232.6	1532.1	807.7	624.3	623.1	624.3	627.8	633.8	633.8
2605.5	25°	2497.1	2293.4	1427.2	680.3	605.2	605.2	607.6	610.0	614.7	614.7
2702.0	27.5°	2592.4	2349.3	1316.4	613.5	588.5	587.3	587.3	590.9	593.3	594.5
2797.3	30°	2697.2	2414.9	1205.7	599.3	575.4	569.5	565.9	568.3	570.7	571.8
2897.4	32.5°	2804.4	2478.0	1106.8	605.2	562.3	551.6	539.7	537.3	537.3	542.1
3001.0	35°	2923.6	2547.1	1030.5	625.5	555.2	525.4	506.3	495.6	496.8	503.9
3124.9	37.5°	3066.5	2630.5	974.5	643.3	550.4	495.6	464.6	451.5	443.2	451.5
3295.3	40°	3253.6	2753.2	934.0	657.6	544.4	461.1	419.4	397.9	382.4	387.2
3559.8	42.5°	3528.8	2946.2	918.5	658.8	531.3	420.5	372.9	344.3	321.7	322.9
3957.7	45°	3914.8	3251.2	998.4	643.3	502.8	376.5	324.0	285.9	271.6	268.1
4552.2	47.5°	4443.7	3695.6	1183.0	611.2	461.1	333.6	276.4	244.2	233.5	227.5
5332.5	50°	5152.6	4266.2	1387.9	575.4	419.4	293.1	237.1	216.8	209.7	203.7
6258.2	52.5°	5974.6	4845.2	1555.9	539.7	377.7	257.3	212.1	200.1	194.2	189.4
7151.7	55°	6728.8	5244.3	1546.4	501.6	337.2	228.7	194.2	187.0	179.9	175.1
7921.3	57.5°	7198.2	5300.3	1274.7	459.9	290.7	206.1	177.5	172.7	164.4	158.5
8587.3	60°	7413.8	4981.1	893.5	405.1	244.2	184.7	159.6	157.3	146.5	138.2
9217.5	62.5°	7453.1	4387.8	595.7	337.2	203.7	164.4	141.8	138.2	123.9	109.6
9729.8	65°	7293.5	3539.5	412.2	263.3	173.9	143.0	121.5	114.4	98.9	84.6
9851.3	67.5°	6788.3	2485.2	287.1	189.4	147.7	113.2	96.5	94.1	82.2	70.3
9231.8	70°	5862.7	1416.5	191.8	141.8	116.8	77.4	76.2	78.6	66.7	57.2
7542.5	72.5°	*4495.0*	*648.1*	*119.1*	*103.6*	*79.8*	*52.4*	*60.8*	*62.0*	*51.2*	*42.9*
4705.8	75°	2646.0	277.6	75.1	66.7	40.5	34.5	44.1	45.3	34.5	27.4
1720.3	77.5°	900.7	104.8	47.7	39.3	20.3	19.1	28.6	28.6	19.1	10.7
345.5	80°	204.9	39.3	23.8	15.5	9.5	8.3	9.5	8.3	4.8	1.2
106.0	82.5°	58.4	15.5	9.5	6.0	3.6	3.6	1.2	0.0	0.0	0.0
36.9	85°	16.7	7.1	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
13.1	87.5°	7.1	1.2	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°
1912.1
1746.5
1473.7
1135.4
833.9
718.4
698.1
677.9
656.4
636.2
615.9
595.7
574.2
545.6
507.5
449.1
384.8
318.1
263.3
224.0
202.5
188.2
172.7
157.3
135.8
102.5
79.8
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52.4
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