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: P939086

Luminaire Tested: **GALN-SB1C-735-U-T3-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:	P939086
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB1C-735-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5875 lumens
Efficiency:	N/A
Efficacy:	108.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B1 - U0 - G2
Input Watts (W):	54.4
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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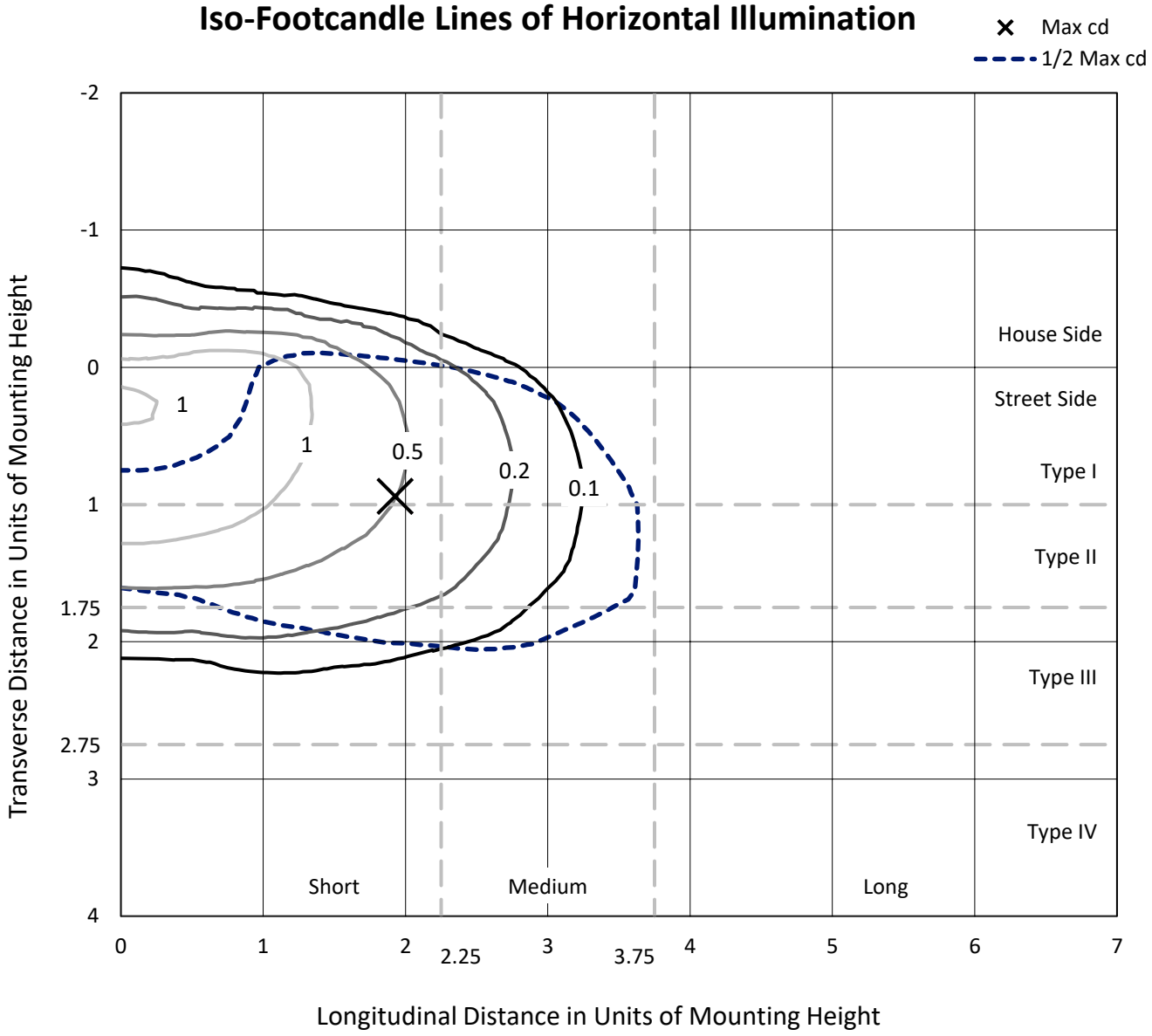
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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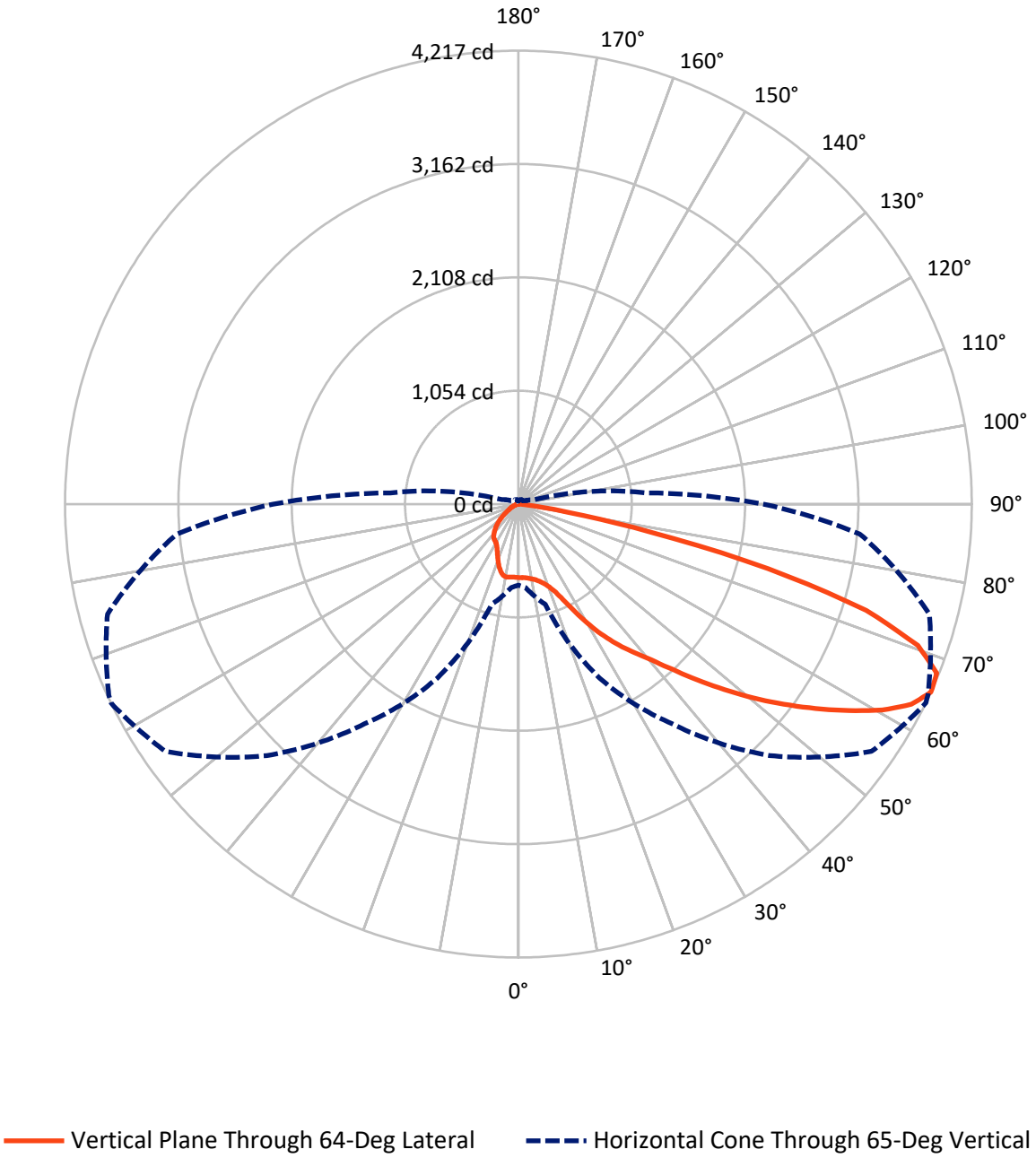
Luminous Intensity Polar Plot



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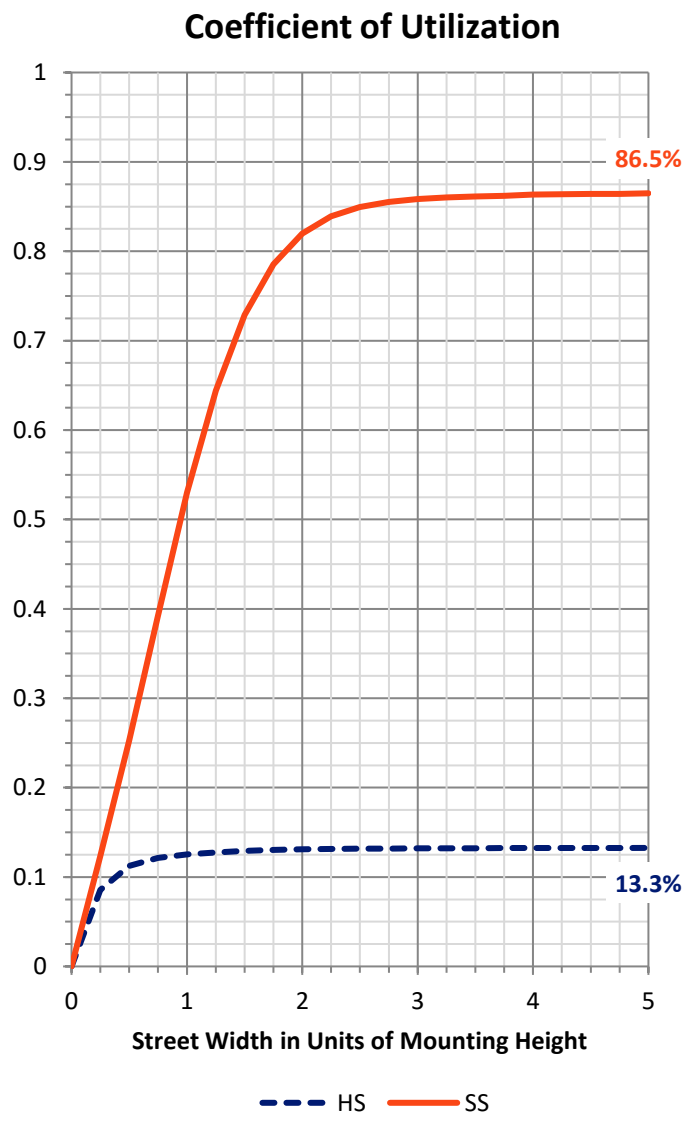
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	785.7	0.0	785.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5089.3	0.0	5089.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	5875.0	0.0	5875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	1.1
10°-20°	171.0	2.9
20°-30°	324.0	5.5
30°-40°	655.7	11.2
40°-50°	1116.9	19.0
50°-60°	1518.9	25.9
60°-70°	1426.3	24.3
70°-80°	571.5	9.7
80°-90°	27.7	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°	5875.0	100.0
0°-180°	5875.0	100.0



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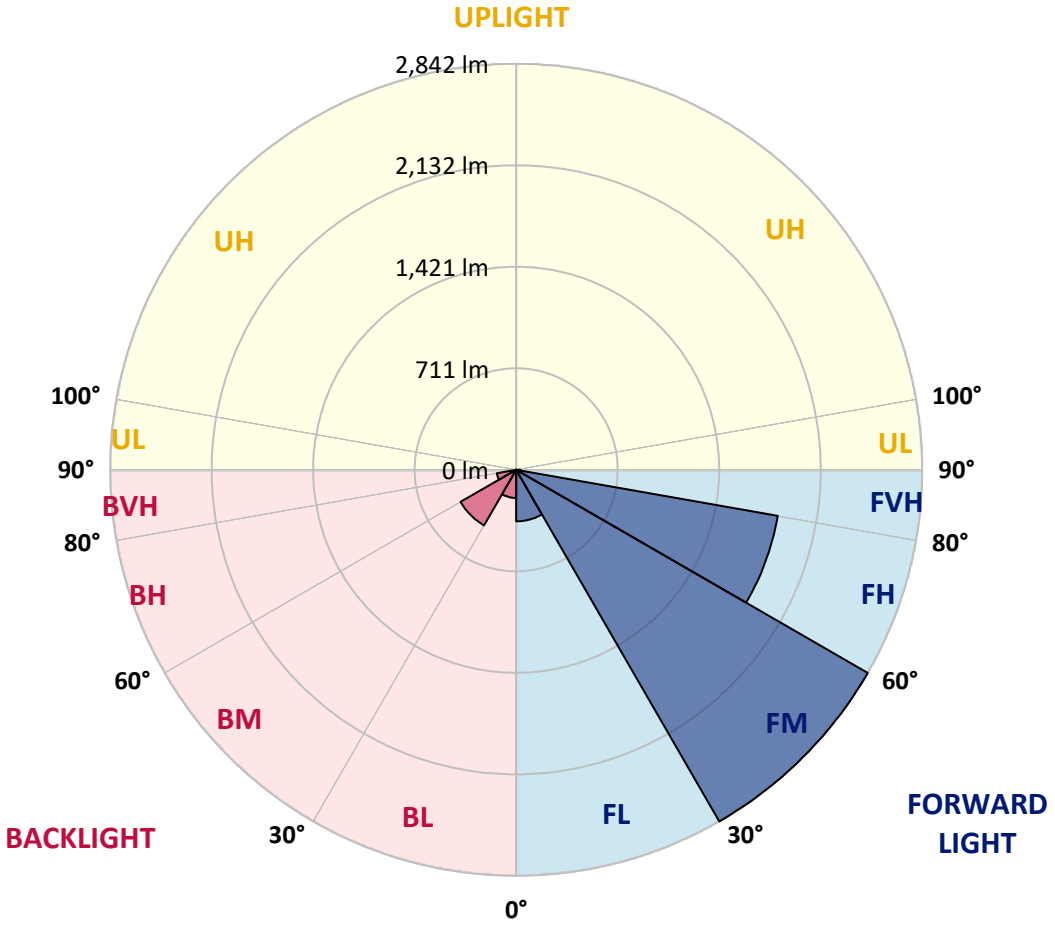
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	360.8	6.1			
FM	(30°-60°)	2842.3	48.4			
FH	(60°-80°)	1859.9	31.7			G2/5000
FVH	(80°-90°)	26.3	0.4			G1/100
BL	(0°-30°)	197.3	3.4	B1/500		
BM	(30°-60°)	449.2	7.6	B1/1000		
BH	(60°-80°)	137.9	2.3	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	683.3	683.3	683.3	683.3	683.3	683.3	683.3	*683.3*	683.3	683.3
2.5°	681.0	685.7	684.5	683.3	682.9	683.7	684.1	*683.7*	683.7	683.7
5°	668.0	671.9	671.9	674.7	678.6	683.3	686.9	*687.7*	688.4	689.6
7.5°	643.2	646.3	648.7	657.7	667.6	680.2	690.8	*696.3*	697.1	701.4
10°	626.2	630.2	634.1	643.5	657.7	676.6	694.7	*708.1*	710.1	720.3
12.5°	625.4	629.4	634.5	644.7	661.3	681.4	703.4	*722.7*	726.3	741.2
15°	633.7	638.4	643.2	655.8	673.5	697.9	721.5	*745.6*	749.1	770.4
17.5°	650.6	656.9	660.5	673.1	692.0	719.2	750.3	*777.8*	781.0	805.8
20°	684.1	691.6	692.8	703.0	721.5	750.7	787.7	*822.0*	825.9	854.3
22.5°	753.4	764.1	754.6	759.7	776.3	805.4	845.6	*888.9*	894.4	926.7
25°	875.5	890.5	866.1	857.4	864.5	894.8	945.2	*1000.0*	1006.3	1032.3
27.5°	1115.4	1096.1	1059.1	1022.8	1001.6	1018.9	1075.6	*1143.3*	1151.2	1176.4
30°	1378.9	1361.9	1311.9	1231.6	1181.1	1178.4	1230.8	*1306.4*	1315.4	1339.5
32.5°	1642.7	1626.6	1572.2	1473.4	1385.9	1342.6	1378.9	*1462.7*	1467.5	1482.8
35°	1902.3	1885.7	1831.4	1730.2	1622.6	1524.2	1517.1	*1611.6*	1613.2	1629.3
37.5°	2163.4	2149.6	2091.7	1992.5	1886.5	1750.6	1684.9	*1752.6*	1754.6	1770.3
40°	2349.7	2355.6	2315.8	2239.0	2148.0	1999.6	1873.1	*1902.7*	1890.9	1917.2
42.5°	2509.6	2521.4	2486.7	2448.1	2395.4	2264.6	2106.3	*2101.2*	2082.3	2096.4
45°	2647.8	2657.7	2626.6	2617.5	2616.3	2524.6	2361.1	*2330.4*	2304.0	2301.2
47.5°	2698.6	2717.5	2730.9	2761.3	2820.3	2781.7	2624.6	*2576.9*	2547.4	2525.7
50°	2717.9	2738.0	2783.7	2871.9	3011.7	3028.3	2886.9	*2833.3*	2797.1	2757.7
52.5°	2691.9	2727.8	2789.2	2937.7	3140.5	3226.0	3138.6	*3091.7*	3050.3	2986.1
55°	2538.7	2574.6	2700.2	2936.9	3204.7	3364.6	3376.4	*3355.6*	3309.1	3207.9
57.5°	2215.8	2268.9	2467.8	2836.9	3203.5	3484.0	3609.6	*3624.6*	3572.6	3427.6
60°	1768.4	1840.4	2083.1	2615.1	3104.7	3548.6	3814.0	*3888.8*	3833.7	3644.3
62.5°	1233.9	1317.4	1547.0	2267.8	2878.6	3502.1	3963.3	*4101.5*	4059.8	3838.0
65°	*752.6*	*779.4*	*964.5*	*1784.5*	*2494.2*	*3307.5*	*4009.4*	*4216.5*	*4202.7*	*3956.6*
67.5°	501.4	523.8	577.0	1223.7	1936.1	2918.8	3899.1	*4196.4*	4200.4	3937.3
70°	302.1	321.4	356.0	711.7	1254.8	2310.3	3557.6	*3940.4*	3963.3	3679.3
72.5°	124.5	137.5	169.0	322.6	649.8	1466.3	2832.9	*3383.1*	3436.3	3093.7
75°	70.5	77.2	99.2	161.9	282.0	683.3	1716.0	*2401.7*	2480.1	2132.3
77.5°	46.9	50.0	64.2	104.8	158.7	233.2	733.3	*1251.3*	1400.9	1164.6
80°	31.5	34.3	44.1	70.1	103.2	100.0	233.6	*463.6*	570.3	400.1
82.5°	21.3	21.7	31.5	46.1	65.4	48.4	68.9	*144.1*	181.2	115.8
85°	12.2	11.8	23.2	26.8	29.1	20.1	20.9	*43.3*	56.7	48.8
87.5°	1.6	2.4	9.1	7.1	3.9	4.3	4.3	*7.5*	11.0	11.8
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°
683.3	0°	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3
684.1	2.5°	684.1	683.7	682.5	681.4	678.6	677.0	677.8	677.0	676.6	677.0
689.2	5°	689.2	688.0	684.9	681.0	675.4	668.8	664.4	658.1	652.2	648.7
703.0	7.5°	703.0	701.8	697.5	686.5	668.8	640.8	615.2	592.7	575.8	566.0
725.1	10°	725.1	723.1	716.4	692.0	645.5	584.5	533.7	491.5	464.0	451.0
751.1	12.5°	751.1	748.7	736.9	686.9	601.4	506.1	436.0	389.1	363.5	352.1
781.0	15°	781.8	778.6	755.4	662.4	537.2	419.4	355.2	320.2	303.7	293.4
819.2	17.5°	820.0	814.5	769.2	625.8	467.5	353.3	305.6	279.2	264.7	254.8
869.2	20°	869.6	860.6	780.2	582.1	403.3	311.5	272.1	250.1	239.1	230.4
940.1	22.5°	938.9	925.9	793.6	534.8	358.0	282.8	247.3	231.2	222.1	212.3
1039.0	25°	1024.8	1009.4	810.1	491.1	326.9	258.0	229.2	215.8	205.2	193.8
1168.5	27.5°	1144.9	1117.3	829.8	455.3	300.1	236.7	212.7	197.7	185.5	176.0
1315.4	30°	1278.8	1233.5	847.2	433.6	275.7	217.0	191.0	176.0	164.6	157.9
1447.4	32.5°	1405.6	1344.2	858.6	424.2	253.6	194.6	167.4	151.2	142.6	140.6
1576.6	35°	1525.4	1444.2	857.4	415.1	233.9	172.1	144.1	127.6	120.9	122.1
1715.6	37.5°	1663.2	1551.0	849.1	400.9	217.8	151.6	124.1	109.5	103.6	104.0
1884.6	40°	1823.5	1674.2	844.0	374.2	200.1	132.7	107.5	95.7	91.4	89.8
2062.6	42.5°	1994.4	1793.6	844.8	343.8	178.0	115.8	96.1	86.3	82.3	81.1
2260.7	45°	2166.2	1907.4	846.0	312.3	154.8	102.8	87.8	79.6	77.2	75.6
2461.5	47.5°	2327.6	2004.3	823.9	278.4	131.9	92.9	81.1	75.6	73.6	71.7
2663.2	50°	2478.1	2068.9	770.8	239.1	113.8	85.1	76.0	72.1	70.1	68.1
2845.9	52.5°	2595.1	2079.1	682.9	198.5	101.2	79.2	72.9	69.3	67.0	65.0
2993.6	55°	2647.0	2014.9	558.1	160.7	91.4	74.0	69.7	66.2	63.4	61.4
3109.8	57.5°	2633.7	1879.8	435.2	129.2	81.9	68.9	65.8	63.4	60.3	57.1
3203.9	60°	2567.9	1699.1	328.1	107.5	73.3	63.4	61.4	59.5	55.1	50.4
3240.2	62.5°	2454.1	1471.8	233.9	89.0	63.8	57.1	56.3	54.7	48.4	39.8
3186.6	65°	*2280.0*	*1195.7*	*157.5*	*74.0*	*54.7*	*50.0*	*50.4*	*47.7*	*39.4*	*29.5*
2990.5	67.5°	2025.6	874.3	100.8	60.7	45.7	41.7	42.1	40.6	33.5	25.2
2618.7	70°	1701.4	579.0	65.8	46.1	36.6	32.3	34.7	35.1	28.4	20.5
2009.8	72.5°	1247.3	341.9	46.1	34.3	26.8	22.4	28.4	29.1	22.8	15.4
1209.1	75°	710.9	162.3	34.7	24.8	16.5	15.8	22.1	22.1	15.8	10.2
523.4	77.5°	298.5	67.7	24.4	16.1	9.5	9.1	15.0	13.8	7.9	4.7
127.6	80°	86.3	30.3	13.0	7.9	3.9	3.5	5.9	4.3	2.0	0.8
48.4	82.5°	33.9	13.4	5.1	3.2	1.6	1.6	0.8	0.0	0.0	0.0
27.6	85°	20.1	5.5	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
5.9	87.5°	5.1	1.2	0.8	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°
683.3
678.6
649.5
566.4
449.8
350.9
293.8
254.0
228.8
210.7
192.6
174.1
156.8
141.8
122.1
105.6
89.4
80.7
75.6
71.7
68.1
64.6
61.0
56.7
49.6
39.0
28.8
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19.7
14.6
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