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: P949028

Luminaire Tested: **GALN-SB3D-927-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:	P949028
	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-SB3D-927-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(3) 90 CRI, 2700K, 900mA 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:	14315 lumens
Efficiency:	N/A
Efficacy:	65.6 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B1 - U0 - G3
Input Watts (W):	218.1
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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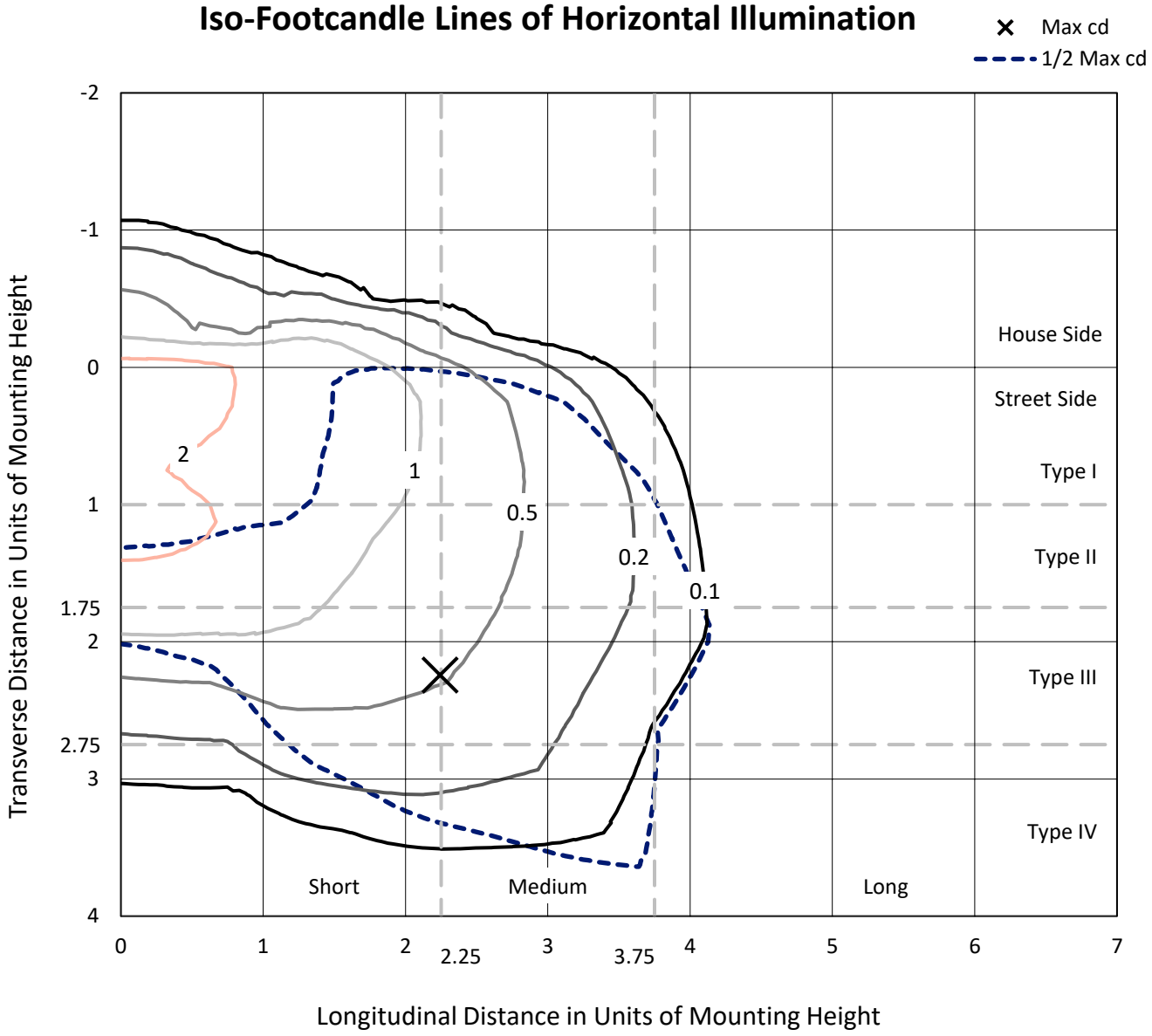
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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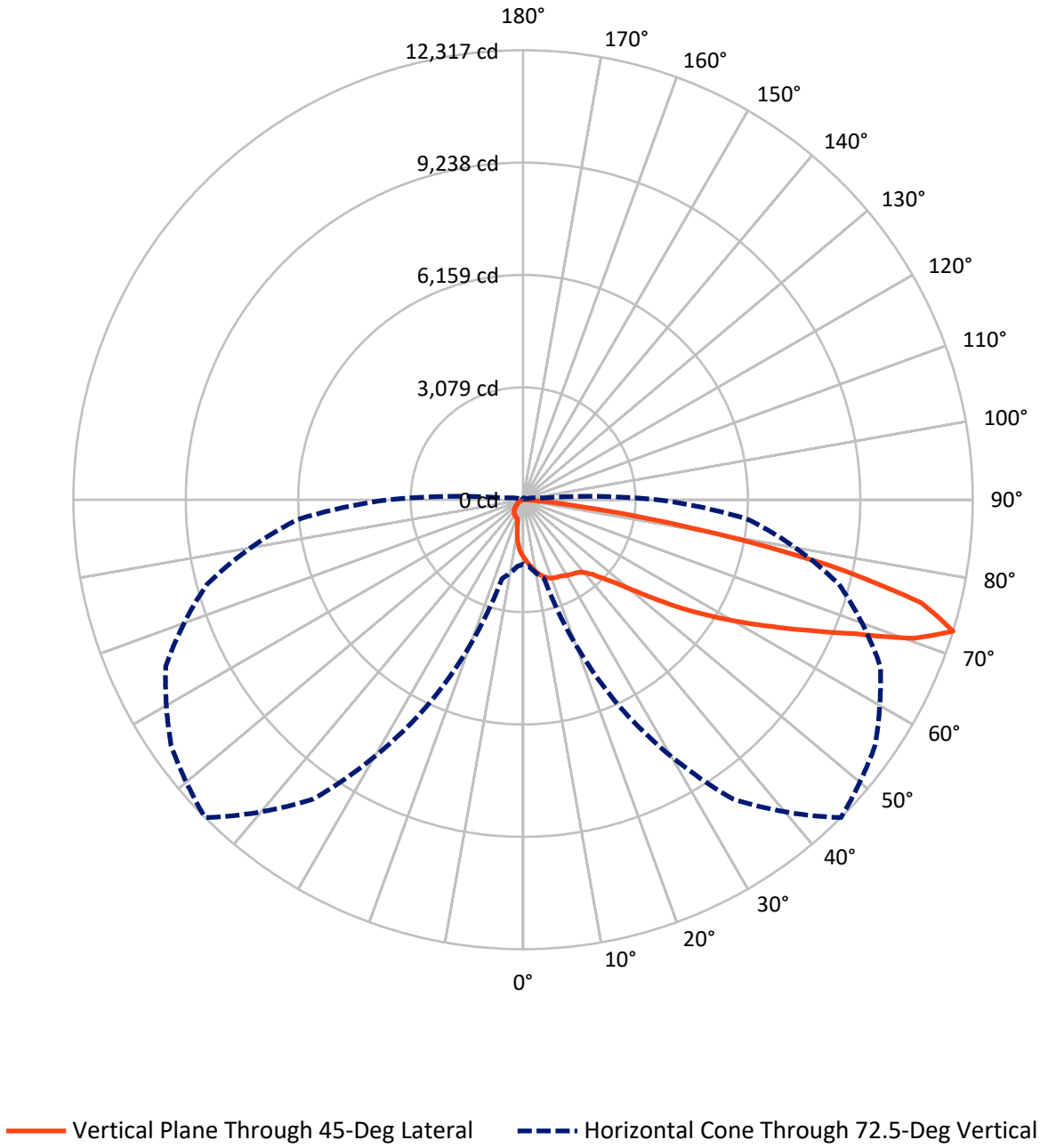
Luminous Intensity Polar Plot



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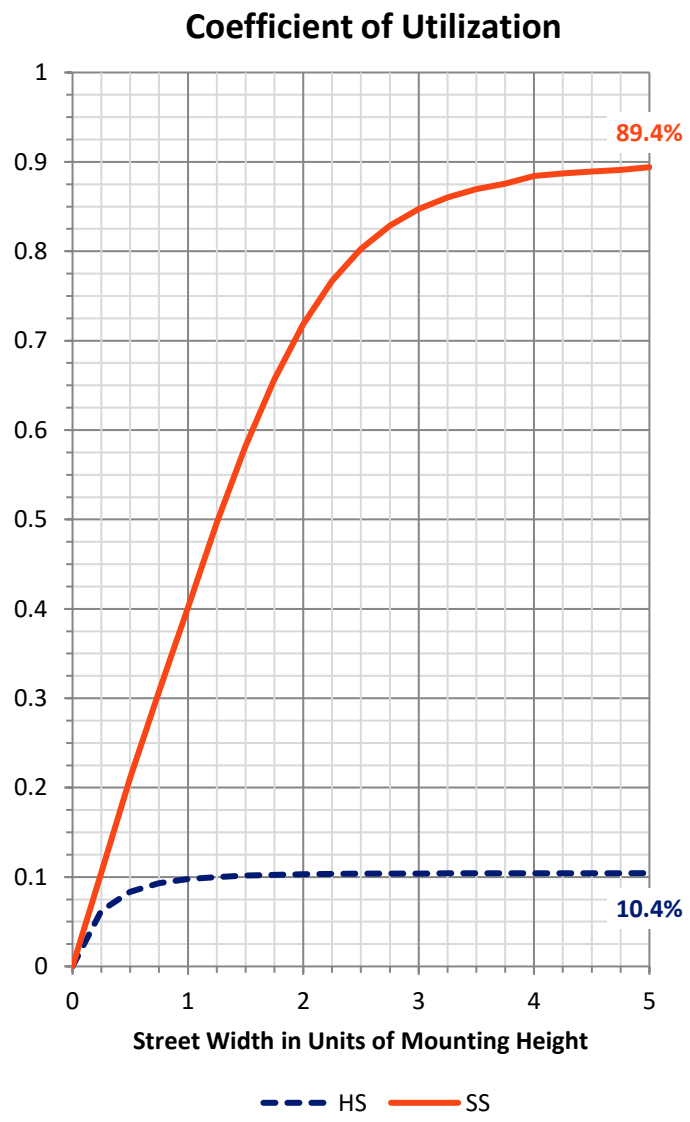
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1504.1	0.0	1504.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12810.9	0.0	12810.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	14315.0	0.0	14315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.0
10°-20°	431.8	3.0
20°-30°	709.1	5.0
30°-40°	1005.7	7.0
40°-50°	1662.4	11.6
50°-60°	2986.3	20.9
60°-70°	4146.6	29.0
70°-80°	3007.8	21.0
80°-90°	217.5	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°	14315.0	100.0
0°-180°	14315.0	100.0



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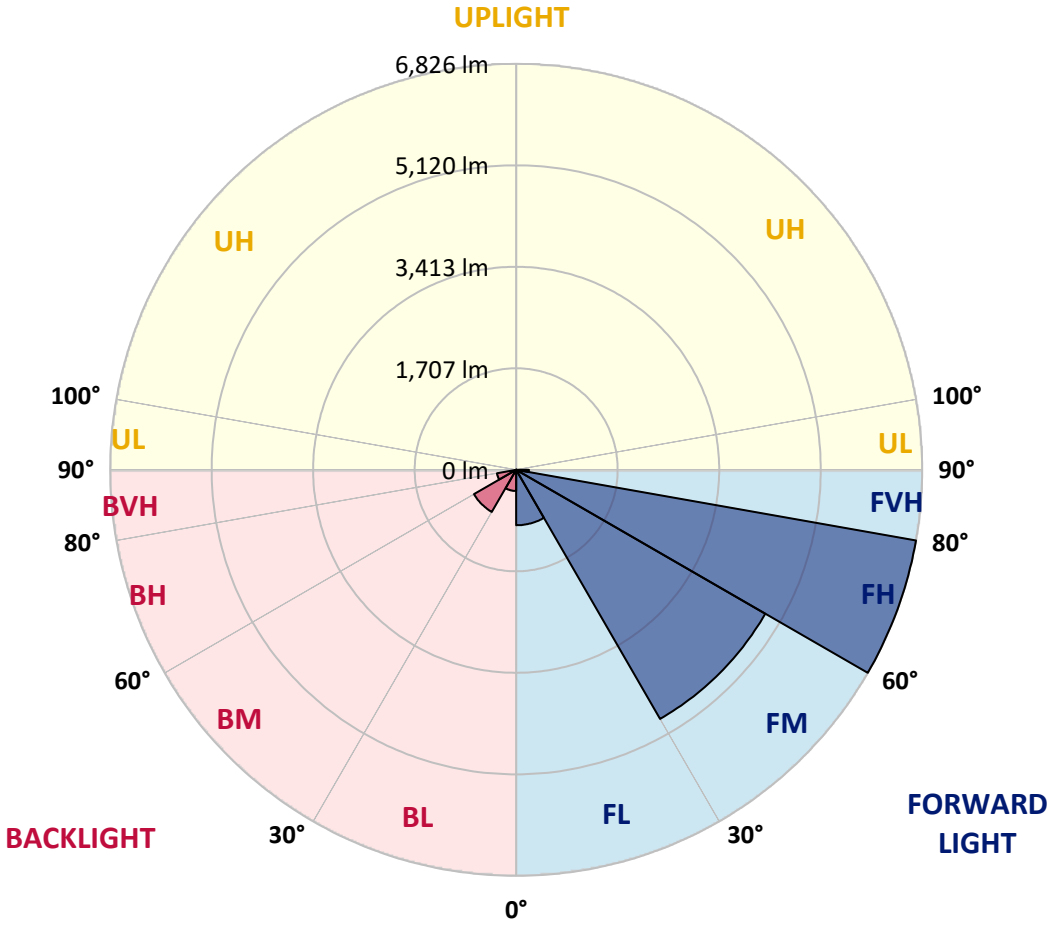
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	932.5	6.5			
FM	(30°-60°)	4836.4	33.8			
FH	(60°-80°)	6826.4	47.7			G3/7500
FVH	(80°-90°)	215.6	1.5			G2/225
BL	(0°-30°)	356.3	2.5	B1/500		
BM	(30°-60°)	818.0	5.7	B1/1000		
BH	(60°-80°)	328.0	2.3	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1568.2	1568.2	1568.2	1568.2	1568.2	*1568.2*	1568.2	1568.2	1568.2	1568.2
2.5°	1712.8	1715.8	1713.8	1702.1	1682.6	*1671.8*	1665.9	1646.4	1633.7	1611.2
5°	1870.2	1881.9	1875.0	1851.6	1814.5	*1788.1*	1780.3	1740.2	1704.1	1662.0
7.5°	2037.2	2043.1	2030.4	2000.1	1950.3	*1905.3*	1898.5	1842.8	1785.2	1720.7
10°	2181.9	2188.7	2169.2	2125.2	2068.5	*2012.8*	2003.0	1941.5	1873.1	1793.9
12.5°	2303.0	2309.9	2284.4	2231.7	2169.2	*2111.5*	2101.7	2037.2	1962.0	1874.1
15°	2394.9	2407.6	2373.4	2316.7	2249.3	*2191.6*	2186.7	2123.2	2049.9	1952.2
17.5°	2448.6	2461.3	2429.1	2360.7	2303.0	*2254.2*	2248.3	2195.5	2127.1	2033.3
20°	2457.4	2469.1	2434.9	2375.3	2327.4	*2288.4*	2285.4	2247.3	2197.5	2107.6
22.5°	2431.0	2445.7	2414.4	2366.5	2333.3	*2312.8*	2308.9	2287.4	2259.0	2182.8
25°	2403.7	2415.4	2391.9	2349.9	2332.3	*2330.4*	2333.3	2329.4	2323.5	2259.0
27.5°	2401.7	2414.4	2388.0	2348.0	2338.2	*2358.7*	2361.6	2380.2	2385.1	2328.4
30°	2418.3	2427.1	2401.7	2359.7	2354.8	*2401.7*	2402.7	2435.9	2443.7	2387.0
32.5°	2454.5	2464.2	2438.8	2377.3	2370.4	*2435.9*	2438.8	2482.8	2495.5	2449.6
35°	2539.5	2551.2	2521.9	2426.1	2401.7	*2468.1*	2476.9	2528.7	2554.1	2516.0
37.5°	2751.5	2717.3	2677.2	2524.8	2473.0	*2519.0*	2533.6	2594.2	2639.1	2595.2
40°	3278.2	3170.7	3045.6	2692.9	2598.1	*2627.4*	2639.1	2699.7	2761.3	2718.3
42.5°	4068.6	3941.6	3740.3	3079.8	2786.7	*2801.3*	2810.1	2862.9	2949.9	2915.7
45°	4773.1	4727.2	4522.0	3740.3	3139.4	*3067.1*	3077.9	3105.2	3233.2	3220.5
47.5°	5314.4	5288.0	5129.8	4498.5	3735.4	*3392.5*	3422.8	3435.5	3620.1	3665.1
50°	5730.7	5720.9	5579.2	5172.7	4514.2	*3872.2*	3883.0	3855.6	4132.1	4243.5
52.5°	6123.5	6156.7	6052.1	5799.1	5345.7	*4500.5*	4498.5	4369.6	4742.8	4910.9
55°	6478.1	6489.9	6500.6	6438.1	6182.1	*5215.7*	5197.2	4986.1	5451.2	5625.1
57.5°	6811.3	6816.2	6912.0	7040.0	7052.7	*5983.7*	5949.5	5696.5	6225.1	6349.2
60°	7035.1	7057.6	7259.8	7615.5	7770.8	*6776.2*	6757.6	6499.6	7012.6	7070.3
62.5°	6712.6	6849.4	7359.5	8064.9	8448.9	*7654.6*	7645.8	7403.5	7841.2	7794.3
65°	5433.6	5665.2	6562.2	8368.8	9114.3	*8635.6*	8648.3	8390.3	8692.2	8539.8
67.5°	3800.9	4045.2	5106.3	8393.3	9857.9	*9787.6*	9860.9	9456.3	9596.1	9254.1
70°	2628.4	2754.4	3445.2	7867.6	10437.3	*11374.4*	11372.4	10765.6	10495.0	9579.4
72.5°	*1767.6*	*1833.0*	*2237.5*	*6241.7*	*10011.3*	*12317.3*	*12260.6*	*11766.2*	*10797.9*	*8959.0*
75°	745.5	793.4	1035.7	3507.8	7920.3	*11268.8*	11115.4	10398.3	9594.1	7054.6
77.5°	236.5	257.0	408.4	1255.6	4362.7	*8470.4*	8308.2	6493.8	6430.3	3539.0
80°	112.4	130.9	229.6	504.2	1716.8	*4607.0*	4584.5	2945.9	2766.2	955.6
82.5°	48.9	57.6	127.0	269.7	768.0	*1643.5*	1676.7	1002.5	829.6	362.5
85°	15.6	20.5	58.6	124.1	324.4	*408.4*	403.5	238.4	334.2	197.4
87.5°	0.0	0.0	19.5	28.3	33.2	*23.5*	26.4	20.5	92.8	54.7
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°
1568.2	0°	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2
1587.8	2.5°	1576.1	1560.4	1533.1	1507.7	1485.2	1462.7	1449.0	1429.5	1427.5	1427.5
1613.2	5°	1586.8	1561.4	1512.5	1460.8	1401.2	1344.5	1287.8	1233.1	1215.5	1202.8
1654.2	7.5°	1618.1	1578.0	1500.8	1402.1	1288.8	1164.7	1077.7	983.9	947.8	928.2
1708.9	10°	1663.0	1608.3	1491.0	1318.1	1134.4	965.4	841.3	739.7	700.6	684.0
1768.5	12.5°	1712.8	1645.4	1473.5	1213.6	965.4	763.1	642.0	595.1	589.2	589.2
1839.9	15°	1772.5	1690.4	1443.2	1090.4	788.5	603.8	560.9	562.8	568.7	572.6
1909.2	17.5°	1834.0	1738.3	1395.3	952.7	632.2	543.3	544.2	547.2	552.1	556.0
1984.5	20°	1900.5	1786.1	1331.8	806.1	542.3	525.7	528.6	531.5	535.4	537.4
2054.8	22.5°	1971.8	1831.1	1256.5	662.5	512.0	511.0	512.0	514.9	519.8	519.8
2136.9	25°	2048.0	1880.9	1170.6	557.9	496.4	496.4	498.3	500.3	504.2	504.2
2216.1	27.5°	2126.2	1926.8	1079.7	503.2	482.7	481.7	481.7	484.6	486.6	487.6
2294.2	30°	2212.1	1980.6	988.8	491.5	471.9	467.1	464.1	466.1	468.0	469.0
2376.3	32.5°	2300.1	2032.4	907.7	496.4	461.2	452.4	442.6	440.7	440.7	444.6
2461.3	35°	2397.8	2089.0	845.2	513.0	455.3	430.9	415.3	406.5	407.4	413.3
2562.9	37.5°	2515.0	2157.4	799.3	527.6	451.4	406.5	381.1	370.3	363.5	370.3
2702.6	40°	2668.4	2258.1	766.0	539.4	446.5	378.1	343.9	326.3	313.6	317.6
2919.6	42.5°	2894.2	2416.4	753.3	540.3	435.8	344.9	305.8	282.4	263.8	264.8
3245.9	45°	3210.7	2666.5	818.8	527.6	412.3	308.8	265.8	234.5	222.8	219.8
3733.5	47.5°	3644.6	3031.0	970.3	501.3	378.1	273.6	226.7	200.3	191.5	186.6
4373.5	50°	4225.9	3499.0	1138.3	471.9	343.9	240.4	194.4	177.8	172.0	167.1
5132.7	52.5°	4900.1	3973.8	1276.1	442.6	309.7	211.1	173.9	164.2	159.3	155.4
5865.5	55°	5518.6	4301.2	1268.3	411.4	276.5	187.6	159.3	153.4	147.5	143.6
6496.7	57.5°	5903.6	4347.1	1045.5	377.2	238.4	169.0	145.6	141.7	134.8	130.0
7042.9	60°	6080.5	4085.2	732.8	332.2	200.3	151.4	130.9	129.0	120.2	113.3
7559.8	62.5°	6112.7	3598.6	488.5	276.5	167.1	134.8	116.3	113.3	101.6	89.9
7979.9	65°	5981.8	2903.0	338.1	215.9	142.7	117.3	99.7	93.8	81.1	69.4
8079.6	67.5°	5567.5	2038.2	235.5	155.4	121.2	92.8	79.1	77.2	67.4	57.6
7571.5	70°	4808.3	1161.8	157.3	116.3	95.8	63.5	62.5	64.5	54.7	46.9
6186.0	72.5°	*3686.6*	*531.5*	*97.7*	*85.0*	*65.5*	*43.0*	*49.8*	*50.8*	*42.0*	*35.2*
3859.5	75°	2170.1	227.7	61.6	54.7	33.2	28.3	36.2	37.1	28.3	22.5
1410.9	77.5°	738.7	86.0	39.1	32.2	16.6	15.6	23.5	23.5	15.6	8.8
283.4	80°	168.1	32.2	19.5	12.7	7.8	6.8	7.8	6.8	3.9	1.0
87.0	82.5°	47.9	12.7	7.8	4.9	2.9	2.9	1.0	0.0	0.0	0.0
30.3	85°	13.7	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
10.7	87.5°	5.9	1.0	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°
1568.2
1432.4
1208.7
931.2
684.0
589.2
572.6
556.0
538.4
521.8
505.2
488.5
471.0
447.5
416.2
368.4
315.6
260.9
215.9
183.7
166.1
154.4
141.7
129.0
111.4
84.0
65.5
54.7
43.0
31.3
19.5
6.8
0.0
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