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: P940486

Luminaire Tested: **GALN-SB3C-827-U-T3-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:	P940486
	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-SB3C-827-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15324 lumens
Efficiency:	N/A
Efficacy:	102.8 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B2 - U0 - G2
Input Watts (W):	149.1
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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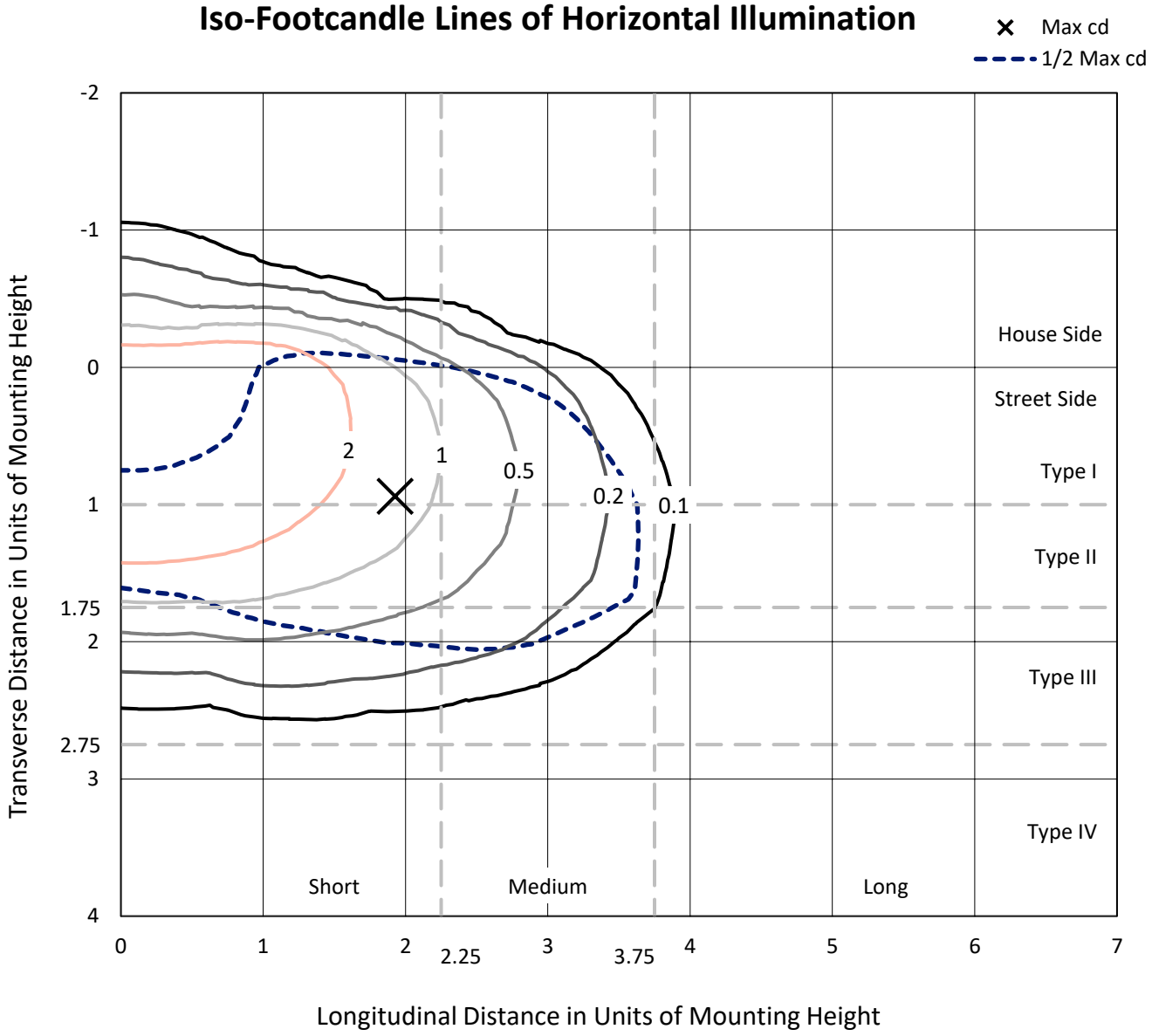
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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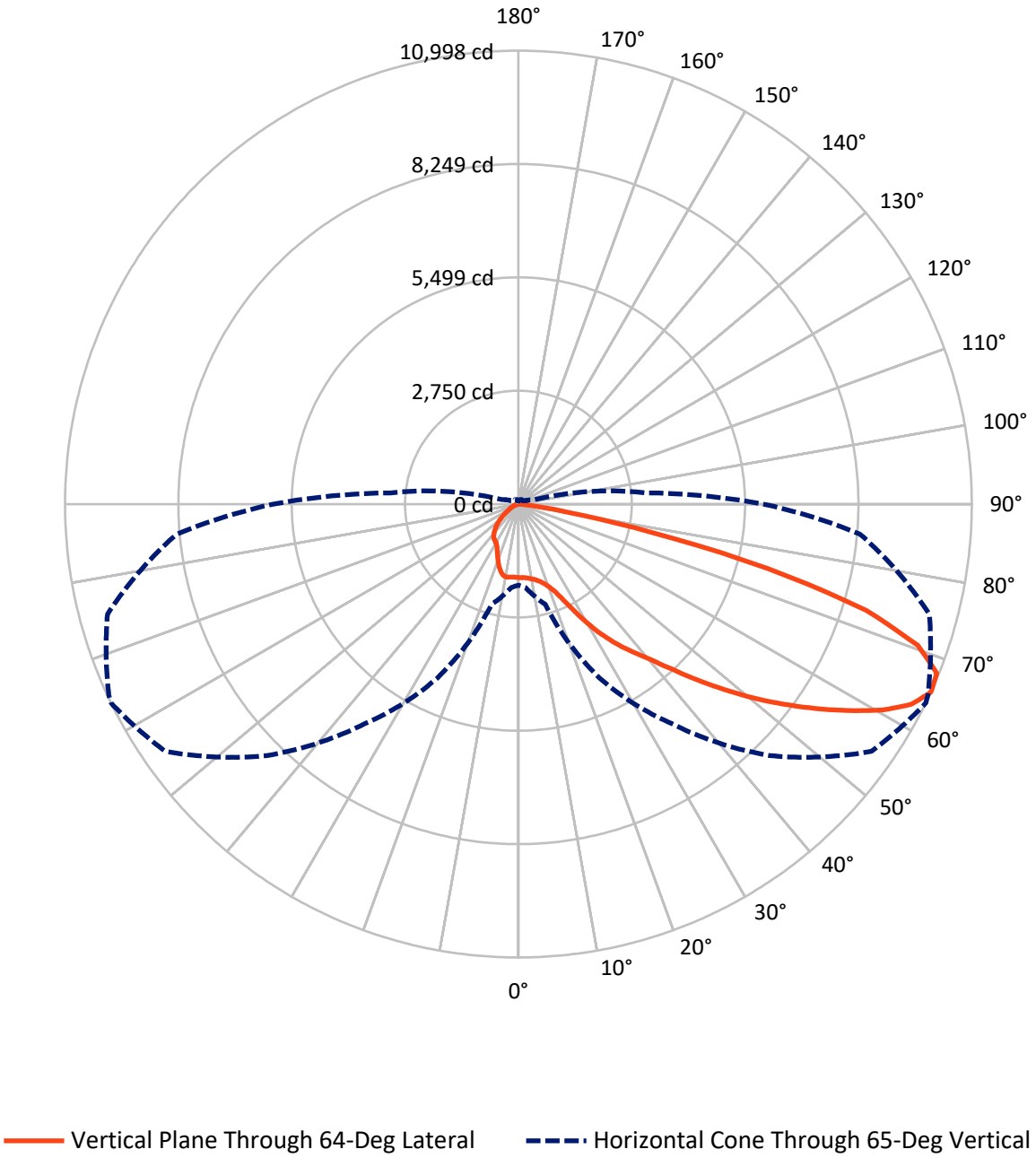
Luminous Intensity Polar Plot



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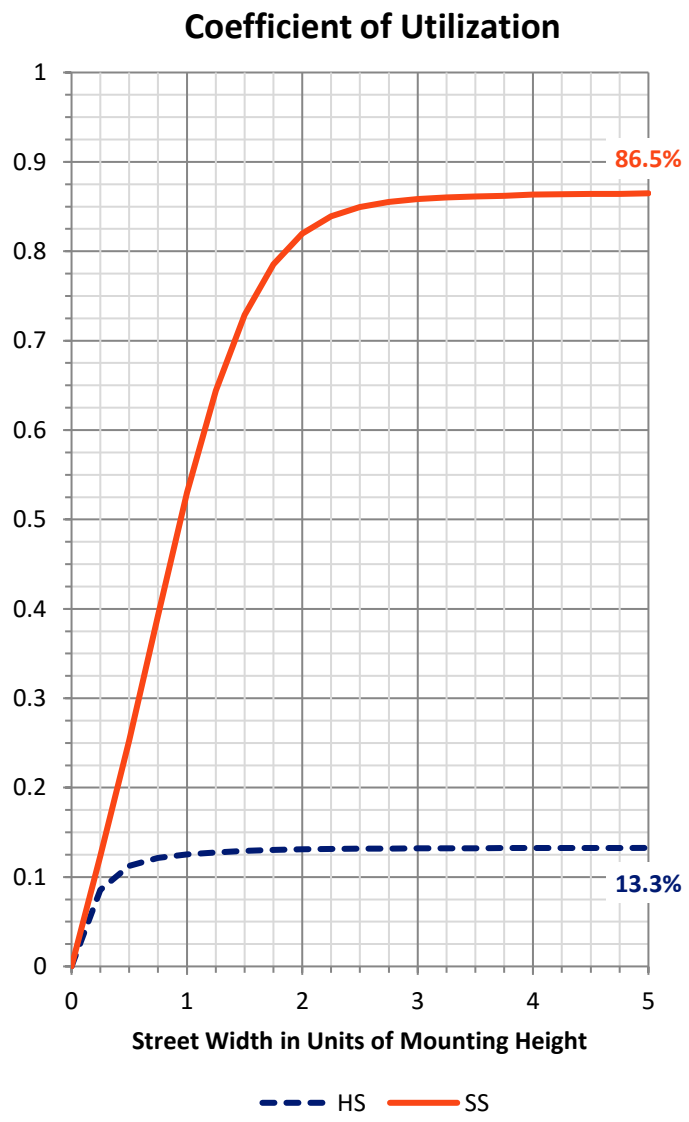
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2049.3	0.0	2049.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13274.7	0.0	13274.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	15324.0	0.0	15324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.1
10°-20°	446.0	2.9
20°-30°	845.1	5.5
30°-40°	1710.2	11.2
40°-50°	2913.3	19.0
50°-60°	3961.8	25.9
60°-70°	3720.4	24.3
70°-80°	1490.5	9.7
80°-90°	72.2	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°	15324.0	100.0
0°-180°	15324.0	100.0



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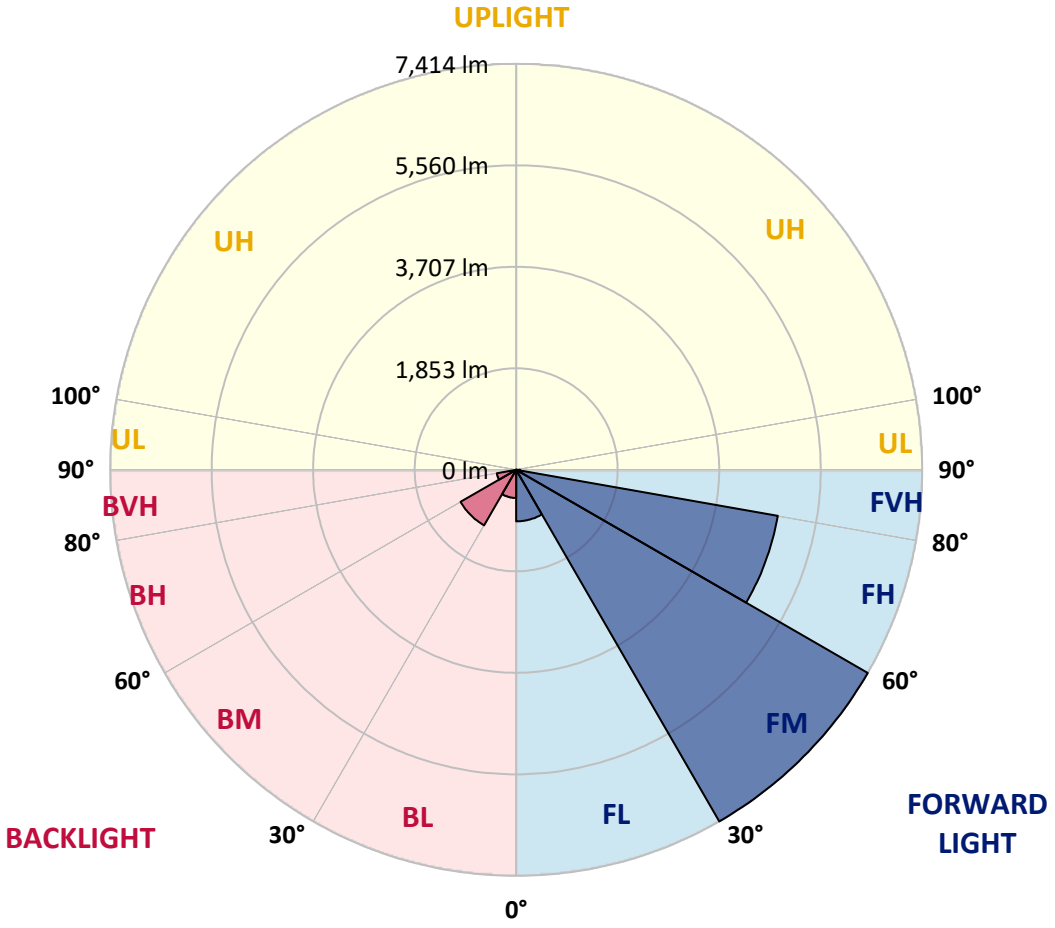
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	941.1	6.1			
FM	(30°-60°)	7413.7	48.4			
FH	(60°-80°)	4851.2	31.7			G2/5000
FVH	(80°-90°)	68.7	0.4			G1/100
BL	(0°-30°)	514.5	3.4	B2/1000		
BM	(30°-60°)	1171.6	7.6	B2/2500		
BH	(60°-80°)	359.7	2.3	B1/500		G1/500
BVH	(80°-90°)	3.5	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-G2
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	*1782.3*	1782.3	1782.3
2.5°	1776.2	1788.5	1785.4	1782.3	1781.3	1783.4	1784.4	*1783.4*	1783.4	1783.4
5°	1742.3	1752.5	1752.5	1759.7	1770.0	1782.3	1791.6	*1793.6*	1795.7	1798.8
7.5°	1677.6	1685.8	1691.9	1715.6	1741.2	1774.1	1801.9	*1816.2*	1818.3	1829.6
10°	1633.4	1643.7	1653.9	1678.6	1715.6	1764.9	1812.1	*1847.1*	1852.2	1878.9
12.5°	1631.3	1641.6	1655.0	1681.7	1724.8	1777.2	1834.7	*1885.1*	1894.3	1933.4
15°	1652.9	1665.2	1677.6	1710.4	1756.7	1820.3	1882.0	*1944.7*	1953.9	2009.4
17.5°	1697.1	1713.5	1722.8	1755.6	1804.9	1875.8	1957.0	*2028.9*	2037.1	2101.8
20°	1784.4	1803.9	1807.0	1833.7	1882.0	1958.0	2054.6	*2143.9*	2154.2	2228.2
22.5°	1965.2	1992.9	1968.3	1981.6	2024.8	2100.8	2205.6	*2318.6*	2333.0	2417.2
25°	2283.7	2322.7	2259.0	2236.4	2254.9	2334.0	2465.5	*2608.3*	2624.7	2692.5
27.5°	2909.3	2858.9	2762.4	2667.9	2612.4	2657.6	2805.5	*2982.2*	3002.8	3068.5
30°	3596.5	3552.4	3421.9	3212.3	3080.8	3073.6	3210.3	*3407.5*	3431.1	3493.8
32.5°	4284.8	4242.7	4100.9	3843.1	3615.0	3502.0	3596.5	*3815.3*	3827.7	3867.7
35°	4961.8	4918.6	4776.9	4512.9	4232.4	3975.6	3957.1	*4203.7*	4207.8	4249.9
37.5°	5642.9	5606.9	5455.9	5197.0	4920.7	4566.3	4394.7	*4571.4*	4576.6	4617.6
40°	6128.8	6144.2	6040.4	5840.1	5602.8	5215.5	4885.8	*4962.8*	4932.0	5000.8
42.5°	6545.9	6576.7	6486.3	6385.6	6248.0	5906.9	5493.9	*5480.6*	5431.3	5468.2
45°	6906.4	6932.1	6851.0	6827.3	6824.3	6584.9	6158.6	*6078.4*	6009.6	6002.4
47.5°	7039.0	7088.3	7123.2	7202.3	7356.4	7255.7	6845.8	*6721.5*	6644.5	6588.0
50°	7089.3	7141.7	7260.9	7491.0	7855.7	7898.8	7530.0	*7390.3*	7295.8	7193.1
52.5°	7021.5	7115.0	7275.2	7662.5	8191.6	8414.5	8186.4	*8064.2*	7956.3	7788.9
55°	6621.9	6715.4	7043.1	7660.5	8359.0	8776.1	8806.9	*8752.5*	8631.3	8367.2
57.5°	5779.5	5918.2	6437.0	7399.5	8355.9	9087.4	9415.1	*9454.1*	9318.5	8940.5
60°	4612.5	4800.5	5433.3	6821.2	8098.1	9255.8	9948.2	*10143.4*	9999.6	9505.5
62.5°	3218.5	3436.3	4035.2	5915.1	7508.4	9134.6	10337.6	*10698.2*	10589.3	10010.9
65°	*1963.1*	*2033.0*	*2515.8*	*4654.6*	*6505.8*	*8627.1*	*10457.8*	*10998.1*	*10962.2*	*10320.1*
67.5°	1307.7	1366.3	1505.0	3191.8	5050.1	7613.2	10170.1	*10945.7*	10956.0	10269.8
70°	787.9	838.3	928.7	1856.3	3272.9	6026.1	9279.5	*10278.0*	10337.6	9596.9
72.5°	324.6	358.5	440.7	841.3	1695.0	3824.6	7389.3	*8824.4*	8963.1	8069.3
75°	183.9	201.3	258.9	422.2	735.5	1782.3	4475.9	*6264.4*	6468.8	5561.7
77.5°	122.2	130.5	167.4	273.3	414.0	608.2	1912.8	*3263.7*	3654.1	3037.7
80°	82.2	89.4	115.1	182.9	269.1	260.9	609.2	*1209.1*	1487.5	1043.7
82.5°	55.5	56.5	82.2	120.2	170.5	126.4	179.8	*376.0*	472.6	302.0
85°	31.8	30.8	60.6	69.9	76.0	52.4	54.4	*113.0*	147.9	127.4
87.5°	4.1	6.2	23.6	18.5	10.3	11.3	11.3	*19.5*	28.8	30.8
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°
1782.3	0°	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3
1784.4	2.5°	1784.4	1783.4	1780.3	1777.2	1770.0	1765.9	1768.0	1765.9	1764.9	1765.9
1797.7	5°	1797.7	1794.7	1786.4	1776.2	1761.8	1744.3	1733.0	1716.6	1701.2	1691.9
1833.7	7.5°	1833.7	1830.6	1819.3	1790.6	1744.3	1671.4	1604.6	1546.1	1501.9	1476.2
1891.2	10°	1891.2	1886.1	1868.6	1804.9	1683.7	1524.5	1392.0	1282.1	1210.1	1176.2
1959.0	12.5°	1959.0	1952.9	1922.1	1791.6	1568.7	1320.1	1137.2	1015.0	948.2	918.4
2037.1	15°	2039.2	2030.9	1970.3	1727.9	1401.2	1094.1	926.6	835.2	792.0	765.3
2136.8	17.5°	2138.8	2124.4	2006.3	1632.4	1219.4	921.5	797.2	728.3	690.3	664.7
2267.2	20°	2268.2	2244.6	2035.1	1518.3	1051.9	812.6	709.9	652.3	623.6	601.0
2452.1	22.5°	2449.0	2415.1	2070.0	1395.1	933.8	737.6	645.1	603.0	579.4	553.7
2710.0	25°	2673.0	2632.9	2113.1	1281.0	852.6	672.9	597.9	563.0	535.2	505.4
3048.0	27.5°	2986.3	2914.4	2164.5	1187.5	782.8	617.4	554.7	515.7	483.9	459.2
3431.1	30°	3335.6	3217.5	2209.7	1131.0	719.1	566.0	498.2	459.2	429.4	411.9
3775.3	32.5°	3666.4	3506.1	2239.5	1106.4	661.6	507.5	436.6	394.5	371.9	366.7
4112.2	35°	3978.7	3767.1	2236.4	1082.8	610.2	448.9	376.0	332.8	315.4	318.5
4474.9	37.5°	4338.2	4045.5	2214.8	1045.8	568.1	395.5	323.6	285.6	270.2	271.2
4915.6	40°	4756.3	4367.0	2201.5	975.9	521.9	346.2	280.4	249.6	238.3	234.2
5379.9	42.5°	5202.2	4678.3	2203.5	896.8	464.3	302.0	250.7	225.0	214.7	211.6
5896.6	45°	5650.1	4975.1	2206.6	814.6	403.7	268.1	229.1	207.5	201.3	197.2
6420.5	47.5°	6071.3	5227.9	2149.1	726.3	344.1	242.4	211.6	197.2	192.1	187.0
6946.5	50°	6463.7	5396.3	2010.4	623.6	296.9	221.9	198.3	188.0	182.9	177.7
7423.2	52.5°	6768.8	5423.0	1781.3	517.8	264.0	206.5	190.0	180.8	174.6	169.5
7808.4	55°	6904.4	5255.6	1455.7	419.1	238.3	193.1	181.8	172.6	165.4	160.3
8111.4	57.5°	6869.5	4903.2	1135.2	336.9	213.7	179.8	171.6	165.4	157.2	149.0
8357.0	60°	6697.9	4431.7	855.7	280.4	191.1	165.4	160.3	155.1	143.8	131.5
8451.5	62.5°	6401.0	3839.0	610.2	232.2	166.4	149.0	146.9	142.8	126.4	103.8
8311.8	65°	*5947.0*	*3118.8*	*410.9*	*193.1*	*142.8*	*130.5*	*131.5*	*124.3*	*102.7*	*77.0*
7800.2	67.5°	5283.3	2280.6	263.0	158.2	119.2	108.9	109.9	105.8	87.3	65.7
6830.4	70°	4437.9	1510.1	171.6	120.2	95.5	84.2	90.4	91.4	74.0	53.4
5242.2	72.5°	3253.4	891.7	120.2	89.4	69.9	58.6	74.0	76.0	59.6	40.1
3153.8	75°	1854.3	423.2	90.4	64.7	43.1	41.1	57.5	57.5	41.1	26.7
1365.3	77.5°	778.7	176.7	63.7	42.1	24.7	23.6	39.0	36.0	20.5	12.3
332.8	80°	225.0	79.1	33.9	20.5	10.3	9.2	15.4	11.3	5.1	2.1
126.4	82.5°	88.3	34.9	13.4	8.2	4.1	4.1	2.1	0.0	0.0	0.0
71.9	85°	52.4	14.4	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
15.4	87.5°	13.4	3.1	2.1	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°
1782.3
1770.0
1694.0
1477.2
1173.2
915.3
766.4
662.6
596.9
549.6
502.3
454.1
408.9
369.8
318.5
275.3
233.2
210.6
197.2
187.0
177.7
168.5
159.2
147.9
129.4
101.7
75.0
62.7
51.4
38.0
24.7
12.3
2.1
0.0
0.0
0.0
0.0

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