Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P939832

Luminaire Tested: **GALN-SB2C-840-U-SL4**

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:	P939832
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB2C-840-U-SL4
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	14201 lumens
Efficiency:	N/A
Efficacy:	140.7 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type IV - Medium
BUG Rating:	B3 - U0 - G3
Input Watts (W):	100.9
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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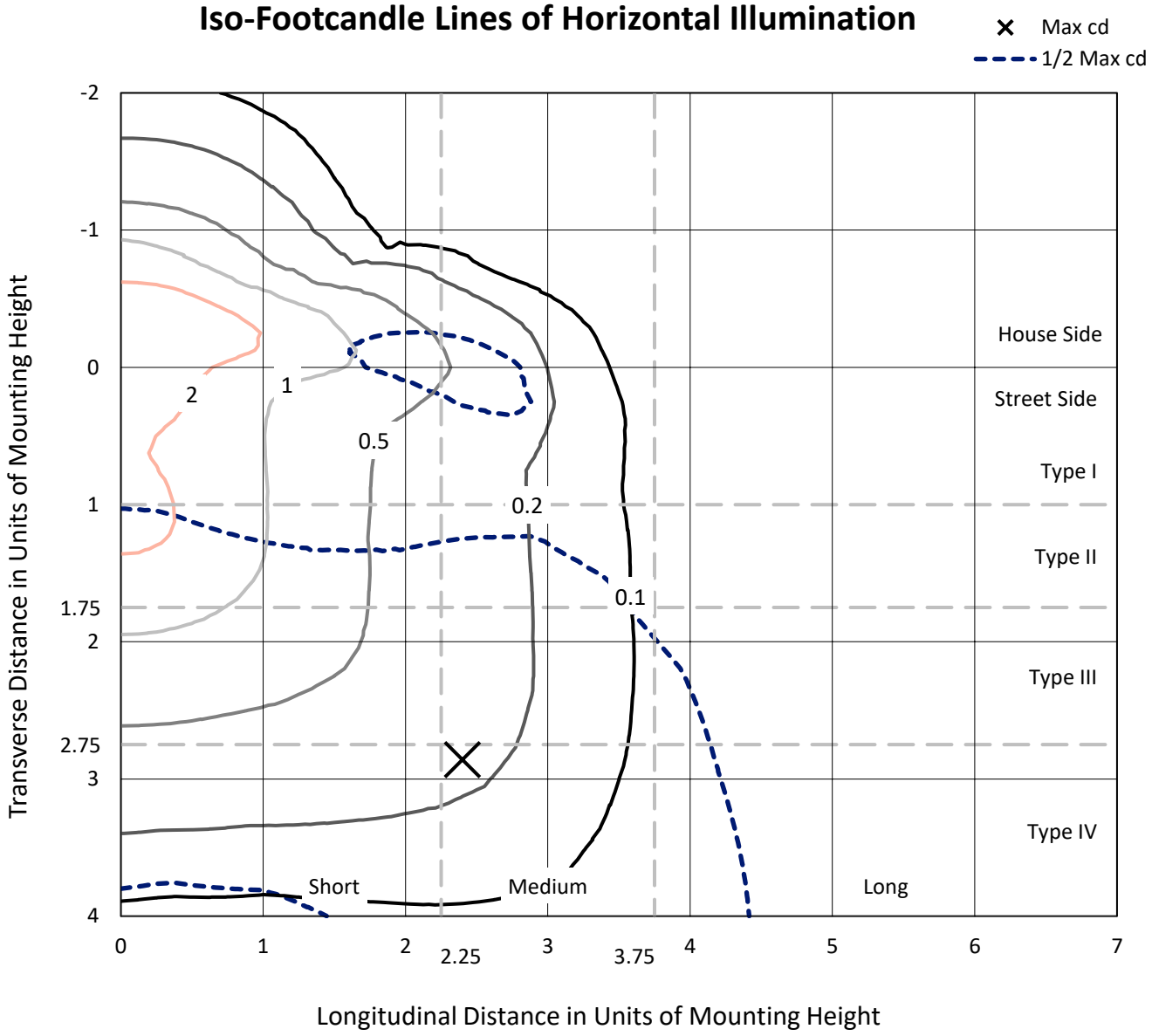
Iso-Footcandle Lines of Horizontal Illumination



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

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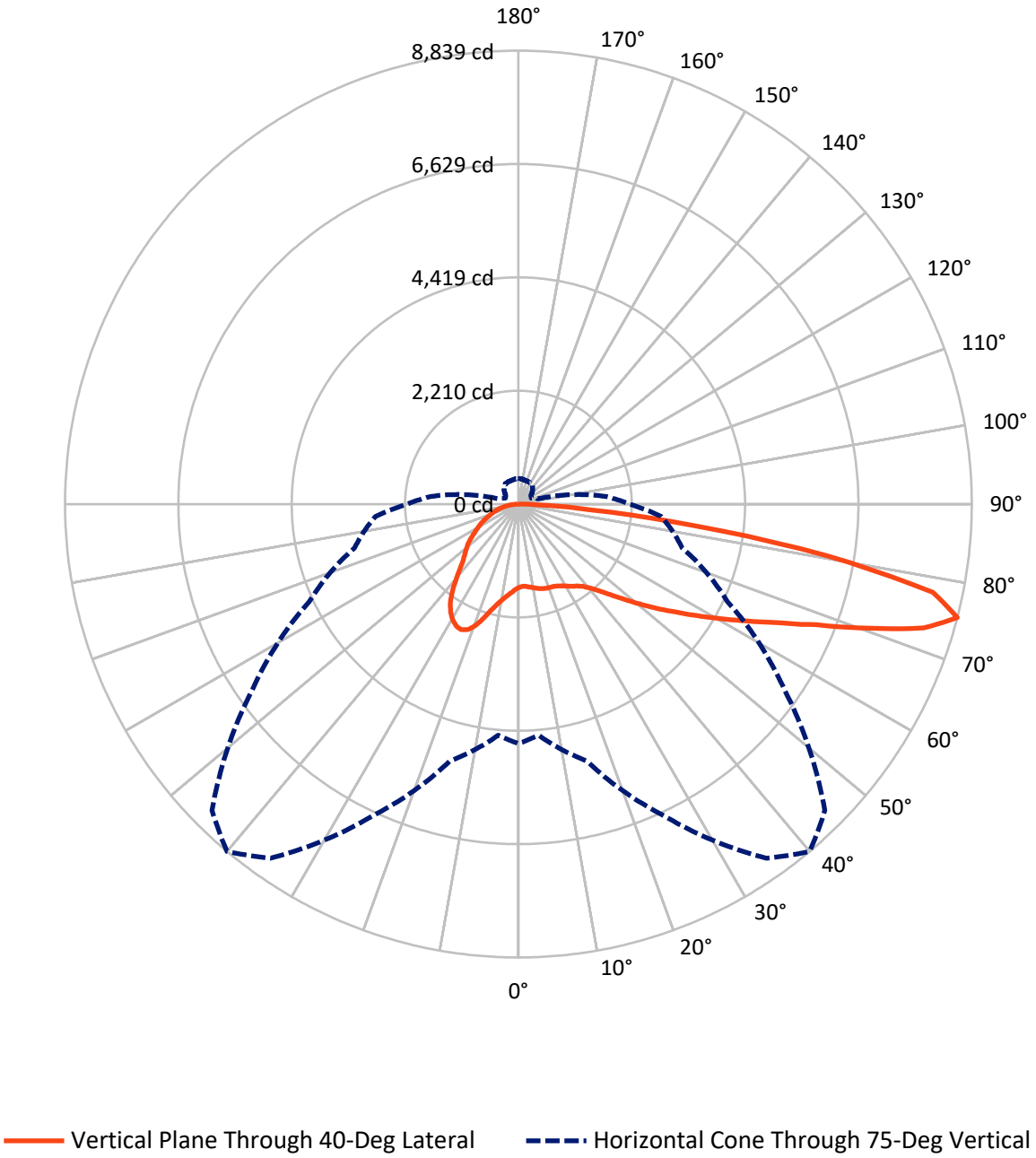
Luminous Intensity Polar Plot



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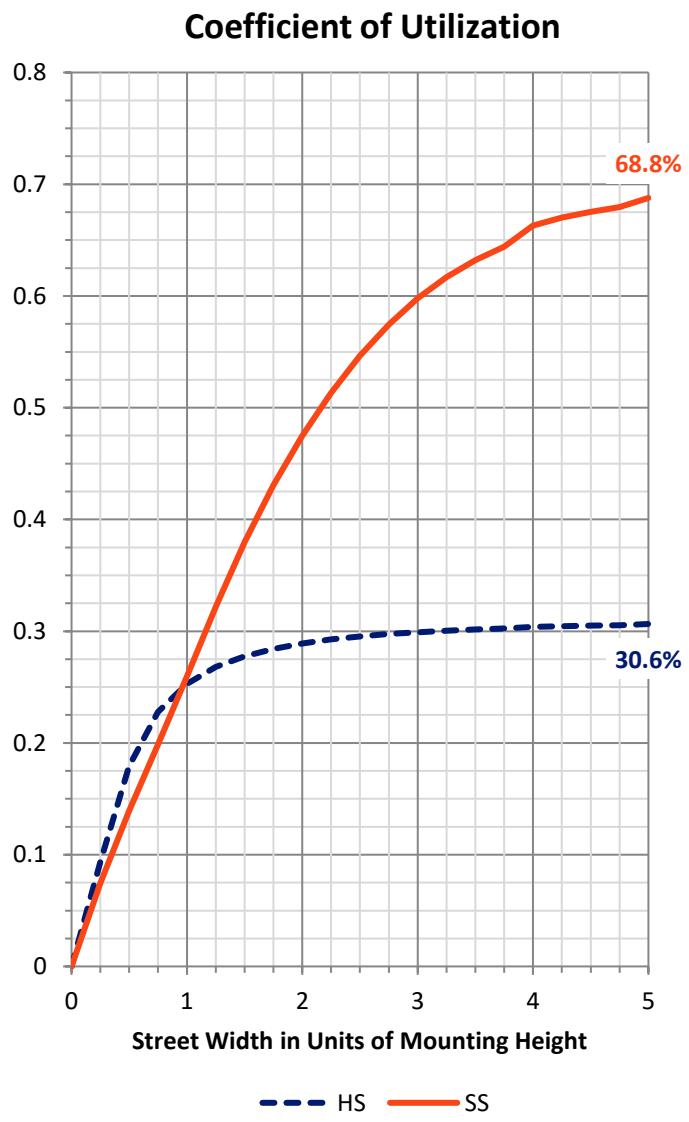
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4399.9	0.0	4399.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9801.1	0.0	9801.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	14201.0	0.0	14201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.1
10°-20°	544.2	3.8
20°-30°	993.7	7.0
30°-40°	1409.4	9.9
40°-50°	1903.1	13.4
50°-60°	2560.2	18.0
60°-70°	3249.4	22.9
70°-80°	2949.1	20.8
80°-90°	429.9	3.0
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°	14201.0	100.0
0°-180°	14201.0	100.0



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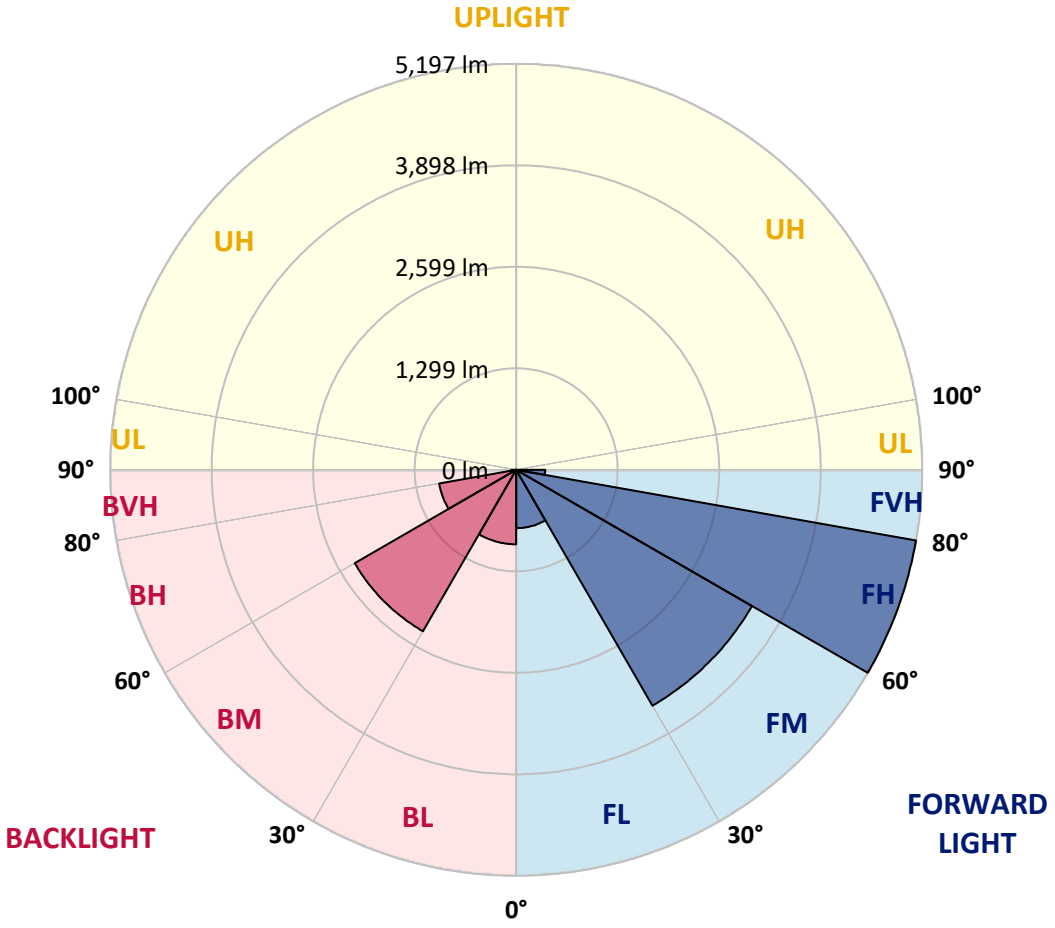
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	747.0	5.3			
FM	(30°-60°)	3486.0	24.5			
FH	(60°-80°)	5197.4	36.6			G3/7500
FVH	(80°-90°)	370.7	2.6			G3/500
BL	(0°-30°)	953.1	6.7	B2/1000		
BM	(30°-60°)	2386.6	16.8	B2/2500		
BH	(60°-80°)	1001.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	59.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1623.9	1623.9	1623.9	1623.9	1623.9	*1623.9*	1623.9	1623.9	1623.9	1623.9
2.5°	1599.0	1608.1	1605.8	1602.8	1602.8	*1603.6*	1602.8	1608.1	1613.4	1618.6
5°	1615.6	1624.7	1620.1	1616.4	1613.4	*1612.6*	1610.3	1609.6	1612.6	1619.4
7.5°	1648.0	1657.0	1650.3	1643.5	1637.5	*1634.4*	1631.4	1626.9	1624.7	1628.4
10°	1684.2	1693.2	1684.9	1672.9	1663.1	*1659.3*	1656.3	1651.8	1648.8	1651.0
12.5°	1720.3	1729.4	1718.1	1701.5	1688.7	*1686.4*	1682.7	1681.1	1680.4	1679.6
15°	1754.2	1761.7	1747.4	1727.8	1714.3	*1710.5*	1706.8	1709.0	1712.8	1717.3
17.5°	1780.6	1788.1	1767.0	1741.4	1728.6	*1727.1*	1724.8	1732.4	1742.9	1754.2
20°	1804.7	1812.2	1785.1	1750.4	1735.4	*1735.4*	1736.1	1751.9	1767.0	1783.6
22.5°	1838.6	1844.6	1811.5	1764.0	1742.2	*1743.7*	1749.7	1765.5	1784.3	1806.9
25°	1889.0	1893.5	1852.9	1789.6	1764.8	*1769.3*	1774.5	1782.1	1800.2	1826.5
27.5°	1970.4	1974.1	1920.7	1834.8	1797.1	*1804.7*	1812.2	1806.9	1815.2	1837.8
30°	2084.9	2087.1	2019.3	1905.6	1852.1	*1855.9*	1857.4	1835.6	1819.7	1837.8
32.5°	2220.4	2219.7	2139.1	1991.5	1914.6	*1910.9*	1898.1	1855.1	1818.2	1834.0
35°	2430.6	2422.3	2318.4	2112.0	1985.4	*1962.1*	1932.0	1877.0	1825.8	1830.3
37.5°	2778.6	2753.0	2609.1	2309.3	2090.9	*2031.4*	1986.9	1912.4	1842.3	1828.8
40°	3171.0	3138.6	2980.4	2579.7	2249.1	*2153.4*	2081.9	1962.8	1869.4	1835.6
42.5°	3636.5	3590.5	3420.3	2898.3	2449.4	*2310.8*	2203.1	2026.9	1909.4	1857.4
45°	4208.1	4147.1	3906.1	3257.6	2701.7	*2517.2*	2373.3	2124.0	1970.4	1899.6
47.5°	4785.8	4800.9	4458.2	3668.8	3004.5	*2771.8*	2586.5	2270.2	2059.3	1967.4
50°	5399.7	5410.2	5007.3	4124.5	3348.0	*3059.5*	2826.0	2433.6	2182.8	2063.8
52.5°	5878.7	5880.2	5505.9	4601.3	3705.8	*3375.9*	3084.4	2620.4	2325.9	2191.8
55°	6178.5	6174.7	5855.4	5052.5	4117.0	*3708.0*	3370.6	2832.8	2500.6	2342.5
57.5°	6396.2	6384.9	6096.4	5440.4	4555.4	*4100.4*	3694.5	3073.8	2707.0	2521.7
60°	6479.0	6472.3	6259.9	5775.6	5016.3	*4534.3*	4068.0	3343.5	2941.3	2733.4
62.5°	6510.7	6523.5	6420.3	6100.2	5509.7	*5014.8*	4478.5	3665.8	3204.9	2972.9
65°	6622.2	6645.5	6624.4	6525.0	6067.0	*5577.5*	5023.1	4049.2	3492.6	3229.7
67.5°	6842.8	6866.2	6875.2	7033.4	6747.9	*6278.7*	5702.5	4526.7	3829.3	3496.4
70°	6837.6	6830.8	6990.5	7437.9	7600.6	*7249.6*	6618.4	5114.2	4230.7	3717.8
72.5°	6223.7	6169.5	6546.8	7433.3	8310.1	*8263.4*	7736.9	5872.0	4577.2	3744.9
75°	*4669.1*	*4524.5*	*5191.1*	*6699.0*	*8428.3*	*8838.8*	*8447.9*	*6342.0*	*4495.1*	*3308.8*
77.5°	1996.7	1851.4	2637.0	4959.1	7543.3	*8262.6*	7795.6	5533.0	3588.3	2188.1
80°	522.7	522.0	796.9	2248.3	5130.1	*6101.7*	5353.0	3573.2	2050.2	781.8
82.5°	216.2	210.9	293.0	874.5	2506.7	*3424.1*	2794.4	1593.8	740.4	211.6
85°	80.6	79.8	142.4	302.0	884.3	*1412.3*	1022.1	407.5	184.5	103.2
87.5°	22.6	21.8	30.9	104.7	215.4	*326.9*	174.7	67.0	52.0	40.7
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°
1623.9	0°	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9	1623.9
1626.9	2.5°	1629.2	1632.9	1639.7	1645.0	1651.8	1659.3	1669.8	1676.6	1683.4	1687.9
1630.7	5°	1636.0	1644.2	1661.6	1678.9	1699.2	1718.1	1739.9	1755.7	1768.5	1772.3
1644.2	7.5°	1651.0	1664.6	1694.0	1723.3	1755.7	1786.6	1818.2	1845.3	1867.2	1875.5
1668.3	10°	1677.4	1695.5	1736.9	1778.3	1821.2	1868.7	1909.4	1948.5	1979.4	1992.2
1697.0	12.5°	1710.5	1733.1	1787.3	1844.6	1904.1	1969.6	2022.3	2070.6	2109.0	2126.3
1736.9	15°	1753.5	1782.8	1852.1	1929.0	2016.3	2107.5	2174.5	2228.0	2270.9	2292.0
1778.3	17.5°	1800.2	1839.3	1926.7	2042.7	2167.7	2287.5	2365.8	2405.0	2449.4	2469.7
1816.7	20°	1845.3	1893.5	2018.6	2187.3	2353.8	2481.0	2544.3	2554.9	2557.9	2560.1
1852.9	22.5°	1892.0	1956.8	2133.8	2369.6	2548.1	2636.2	2645.2	2600.1	2536.8	2507.4
1888.3	25°	1943.3	2029.1	2284.5	2570.7	2715.3	2725.8	2656.5	2546.6	2426.8	2371.8
1916.9	27.5°	1993.0	2112.7	2465.2	2762.7	2835.8	2743.2	2594.0	2438.1	2293.5	2235.5
1937.2	30°	2042.7	2208.4	2664.8	2930.7	2890.8	2700.2	2495.4	2321.4	2176.0	2115.0
1955.3	32.5°	2093.1	2319.9	2894.6	3052.0	2881.0	2609.1	2372.6	2190.3	2062.3	1998.2
1971.1	35°	2150.4	2456.9	3112.2	3118.3	2815.5	2475.0	2210.6	2033.6	1922.2	1871.0
1990.0	37.5°	2225.0	2630.9	3304.3	3134.8	2701.0	2278.4	2009.5	1848.4	1756.5	1733.1
2017.8	40°	2317.6	2840.3	3451.2	3108.5	2531.5	2039.7	1789.6	1660.8	1608.8	1614.1
2055.5	42.5°	2438.1	3074.6	3554.4	3040.7	2295.8	1793.4	1596.8	1539.5	1564.4	1585.5
2112.0	45°	2594.8	3317.9	3618.4	2925.4	2029.1	1584.7	1483.1	1496.6	1515.4	1517.7
2203.1	47.5°	2795.1	3564.2	3660.6	2751.4	1757.2	1437.9	1410.7	1413.8	1410.0	1394.2
2339.4	50°	3045.2	3803.7	3698.2	2521.0	1526.0	1346.0	1309.8	1299.3	1247.3	1196.1
2521.0	52.5°	3329.9	4023.6	3714.0	2234.8	1346.0	1269.1	1210.4	1144.1	1047.0	1031.1
2749.2	55°	3646.3	4227.0	3673.4	1883.0	1194.6	1170.5	1081.6	1001.8	991.2	977.7
3049.7	57.5°	4024.4	4446.2	3590.5	1490.6	1039.4	1055.2	968.6	977.7	958.8	937.7
3436.1	60°	4437.9	4672.9	3445.1	1132.8	879.0	911.4	939.2	938.5	933.2	915.9
3843.6	62.5°	4809.9	4822.0	3158.9	867.7	738.1	799.9	876.0	875.2	870.7	860.9
4269.1	65°	5031.4	4799.4	2681.4	683.2	622.1	708.0	790.1	796.1	796.9	796.1
4589.3	67.5°	4992.2	4535.0	2026.1	543.8	526.5	614.6	705.0	713.3	719.3	720.8
4629.9	70°	4549.3	3954.3	1321.1	433.8	441.4	532.5	624.4	632.7	638.0	644.0
4017.6	72.5°	3546.1	2907.4	756.2	351.0	366.8	461.7	544.6	554.4	557.4	568.7
2795.9	75°	*2160.9*	*1709.8*	*408.2*	*276.4*	*301.3*	*394.7*	*465.5*	*476.8*	*482.0*	*495.6*
1373.1	77.5°	1027.4	740.4	232.7	215.4	242.5	322.4	393.2	406.0	391.7	399.2
378.9	80°	347.2	274.9	146.9	164.2	185.3	251.6	314.8	327.6	297.5	296.0
125.8	82.5°	121.3	111.5	93.4	109.2	119.8	180.0	238.0	254.6	221.4	220.7
56.5	85°	47.5	45.2	52.0	59.5	71.6	110.7	156.7	165.0	136.3	110.0
16.6	87.5°	9.8	10.5	12.8	13.6	21.8	38.4	56.5	69.3	55.0	46.7
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°
1623.9
1684.9
1773.8
1876.2
1993.0
2126.3
2290.5
2469.0
2566.2
2515.7
2380.1
2242.3
2121.8
2006.5
1882.3
1749.7
1632.2
1605.1
1532.8
1406.2
1202.9
1036.4
979.9
934.0
909.9
857.1
796.1
722.3
647.0
573.2
497.1
393.2
293.0
210.1
108.5
42.9
0.0

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