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: P950898

Luminaire Tested: **GALN-SB5A-950-U-T4W**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P950898
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5A-950-U-T4W
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15732 lumens
Efficiency:	N/A
Efficacy:	111.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G3

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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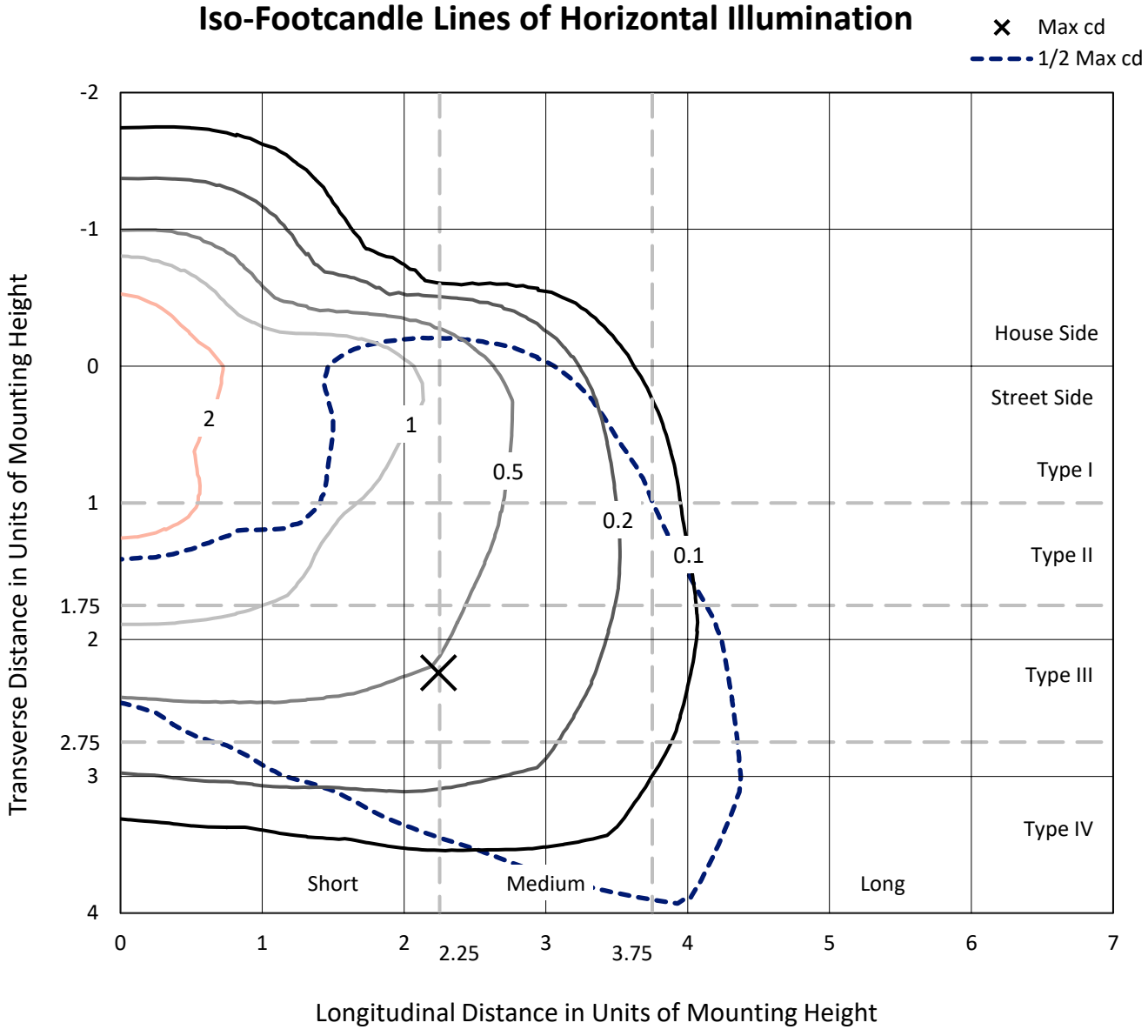
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type IV - Short - N/A

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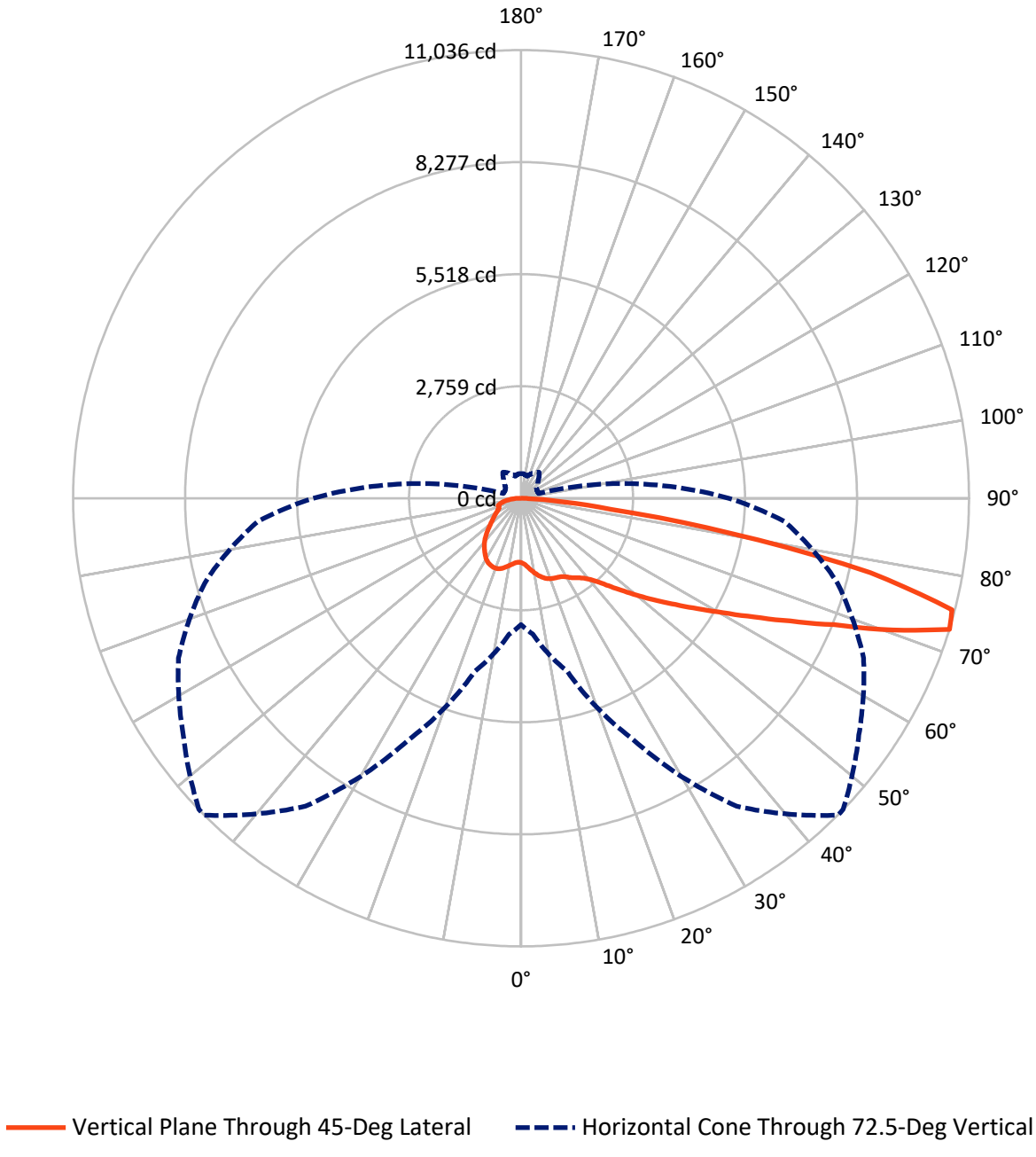
Luminous Intensity Polar Plot



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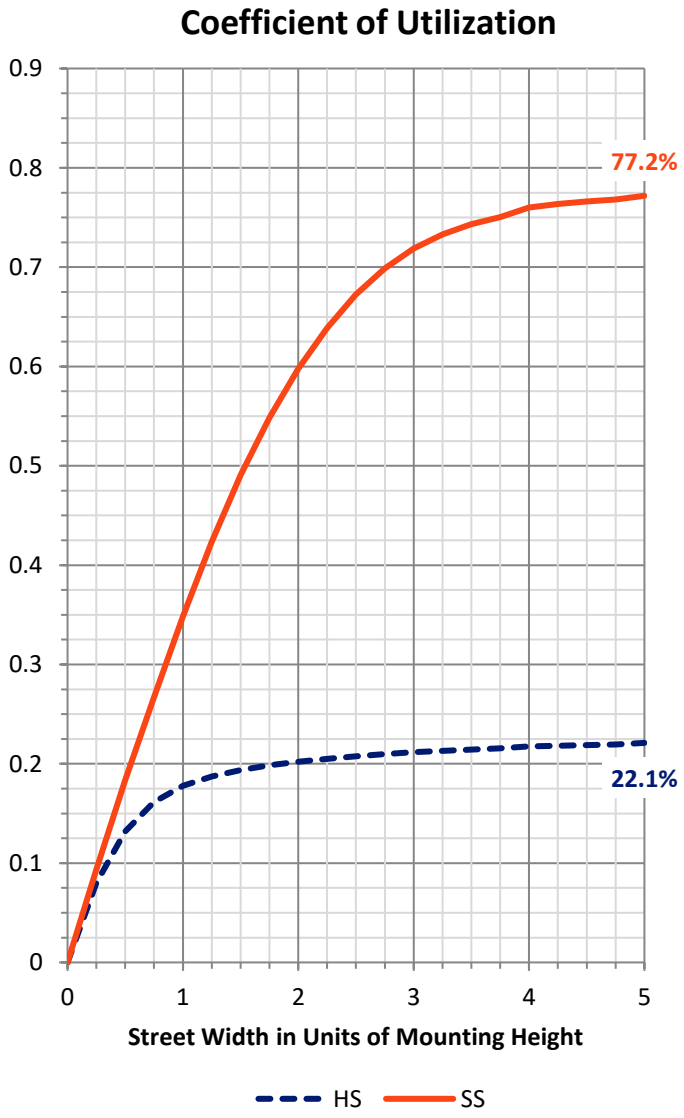
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3556.5	0.0	3556.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12175.5	0.0	12175.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	15732.0	0.0	15732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	1.0
10°-20°	538.6	3.4
20°-30°	936.9	6.0
30°-40°	1343.0	8.5
40°-50°	1891.1	12.0
50°-60°	2896.6	18.4
60°-70°	4196.1	26.7
70°-80°	3350.9	21.3
80°-90°	417.3	2.7
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°	15732.0	100.0
0°-180°	15732.0	100.0



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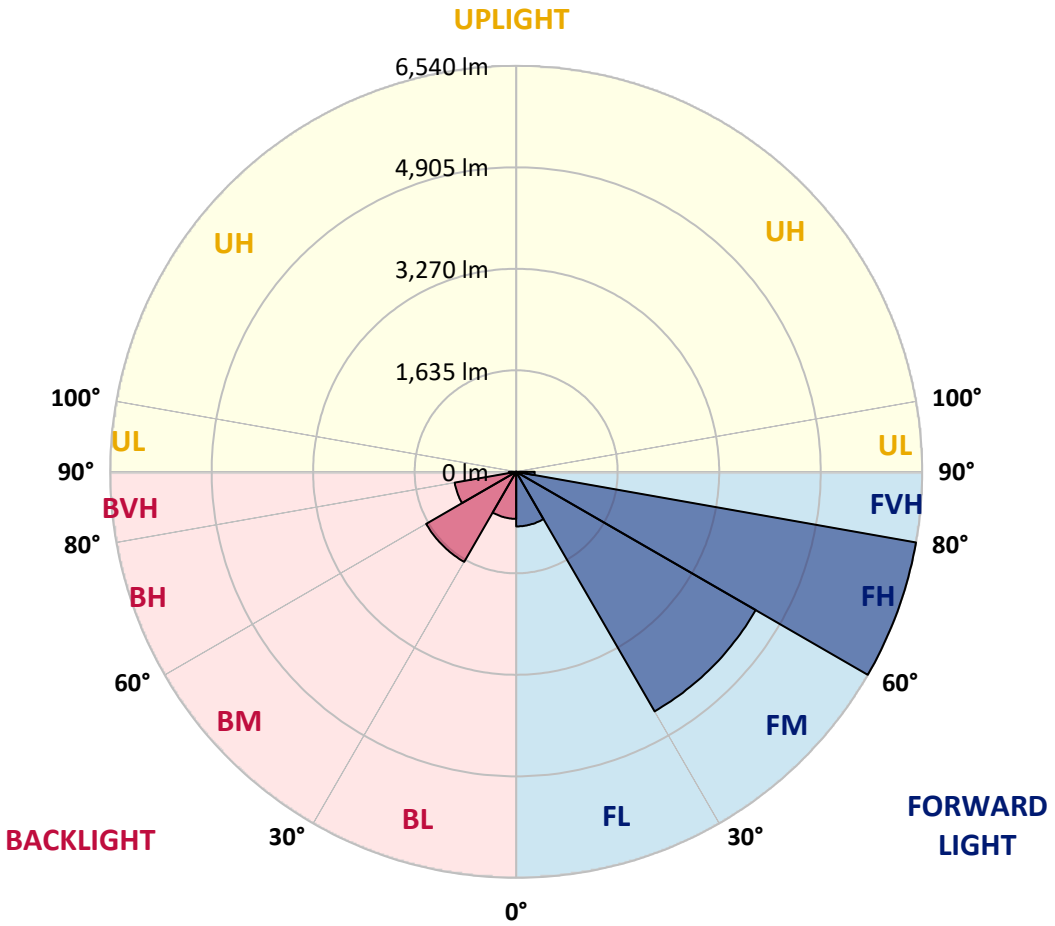
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	879.8	5.6			
FM	(30°-60°)	4456.1	28.3			
FH	(60°-80°)	6540.2	41.6			G3/7500
FVH	(80°-90°)	299.4	1.9			G3/500
BL	(0°-30°)	757.2	4.8	B2/1000		
BM	(30°-60°)	1674.6	10.6	B2/2500		
BH	(60°-80°)	1006.7	6.4	B3/2500		G3/2500
BVH	(80°-90°)	117.9	0.7			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1649.2	1660.0	1650.0	1640.9	1636.8	1626.0	1625.2	1618.5	1614.4	1602.8
5°	1764.4	1778.5	1761.9	1743.7	1727.1	1700.6	1697.3	1678.2	1656.7	1631.8
7.5°	1894.5	1906.9	1887.9	1860.5	1831.5	1787.6	1786.8	1752.0	1718.0	1675.7
10°	2008.1	2024.6	1998.9	1961.6	1925.2	1875.5	1869.7	1829.9	1786.8	1732.1
12.5°	2108.3	2119.9	2095.1	2049.5	2007.2	1957.5	1950.0	1906.1	1858.1	1795.9
15°	2187.9	2202.8	2169.7	2120.8	2076.0	2027.1	2020.5	1980.7	1932.6	1867.2
17.5°	2240.1	2252.5	2218.6	2163.9	2120.8	2080.2	2075.2	2042.0	1999.8	1933.5
20°	2260.0	2273.3	2237.6	2182.1	2142.3	2110.8	2108.3	2084.3	2055.3	1994.8
22.5°	2279.9	2292.3	2245.9	2187.9	2153.1	2133.2	2132.4	2116.6	2105.0	2055.3
25°	2360.3	2363.6	2301.4	2217.7	2168.0	2150.6	2149.8	2148.9	2153.9	2115.0
27.5°	2429.9	2429.1	2376.0	2297.3	2220.2	2183.8	2182.9	2191.2	2207.0	2174.6
30°	2531.8	2522.7	2459.7	2377.7	2307.2	2250.9	2245.9	2238.4	2250.9	2225.2
32.5°	2748.1	2719.1	2617.2	2471.3	2379.3	2336.2	2329.6	2283.2	2288.2	2272.4
35°	3058.1	3020.0	2884.0	2648.7	2468.8	2407.5	2404.2	2345.4	2335.4	2321.3
37.5°	3426.9	3379.6	3221.3	2905.6	2623.0	2490.4	2485.4	2432.4	2391.8	2376.8
40°	3797.3	3737.7	3606.7	3218.9	2850.1	2628.8	2613.0	2532.7	2486.2	2461.4
42.5°	4157.0	4107.3	3995.4	3570.2	3130.2	2831.0	2796.2	2658.6	2623.8	2600.6
45°	4475.2	4430.5	4348.4	3945.7	3458.4	3106.1	3072.2	2847.6	2836.8	2836.8
47.5°	4733.8	4723.9	4636.8	4328.6	3845.4	3419.4	3360.6	3110.3	3139.3	3184.1
50°	5020.6	4993.2	4900.4	4705.6	4300.4	3778.3	3730.2	3432.7	3541.2	3663.9
52.5°	5284.1	5299.0	5195.4	5098.5	4814.2	4178.5	4094.0	3813.1	4047.6	4250.6
55°	5555.1	5555.9	5526.9	5513.7	5352.9	4621.1	4528.3	4270.5	4643.5	4895.4
57.5°	5809.5	5811.2	5854.3	5971.1	5977.8	5131.6	5026.4	4832.4	5305.6	5562.6
60°	6036.6	6048.2	6165.9	6439.4	6527.2	5716.7	5617.3	5496.3	5990.2	6248.8
62.5°	6112.8	6155.1	6417.0	6805.7	7070.0	6434.4	6336.6	6264.5	6709.5	6949.9
65°	5983.6	6080.5	6586.9	7108.2	7628.6	7287.2	7190.2	7111.5	7457.1	7683.3
67.5°	5666.2	5791.3	6576.9	7425.6	8306.5	8313.2	8222.8	8038.0	8258.5	8345.5
70°	4829.9	5017.2	5997.6	7544.1	9084.7	9716.2	9629.2	9153.5	9058.2	8637.2
72.5°	3111.9	3363.9	4416.4	6568.7	9257.9	11036.4	11031.5	10160.5	9311.0	8070.3
75°	1135.4	1289.5	2052.0	4123.0	7771.2	10969.3	11001.6	9988.1	8499.6	6233.8
77.5°	413.5	452.5	669.6	1584.6	4779.4	8801.3	8868.4	7985.0	6049.9	3128.5
80°	217.1	238.7	343.1	614.9	2047.8	5226.9	5332.2	4745.4	2843.4	942.3
82.5°	120.2	130.1	192.3	334.0	922.4	2235.1	2298.1	1874.6	1000.3	399.5
85°	64.6	68.8	90.3	182.3	450.8	774.9	792.3	560.2	398.6	234.5
87.5°	19.1	23.2	29.8	58.0	176.5	174.0	178.2	111.1	157.5	118.5
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°
1587.1	0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
1599.5	2.5°	1594.5	1592.0	1582.9	1578.8	1573.8	1573.0	1577.1	1577.9	1578.8	1579.6
1617.7	5°	1609.4	1601.1	1592.9	1587.9	1589.5	1590.4	1598.7	1604.5	1608.6	1611.9
1651.7	7.5°	1638.4	1631.8	1617.7	1616.9	1619.4	1626.8	1637.6	1650.9	1658.3	1664.1
1695.6	10°	1681.5	1669.1	1652.5	1655.0	1660.0	1670.8	1693.1	1703.9	1716.3	1727.1
1749.5	12.5°	1725.5	1714.7	1695.6	1697.3	1705.6	1724.6	1746.2	1759.4	1767.7	1776.0
1807.5	15°	1782.6	1763.6	1742.9	1742.9	1757.8	1778.5	1788.4	1799.2	1804.2	1813.3
1869.7	17.5°	1841.5	1816.6	1789.3	1787.6	1805.8	1815.8	1821.6	1823.2	1824.9	1834.8
1930.2	20°	1900.3	1873.0	1834.0	1830.7	1834.8	1833.2	1832.4	1830.7	1833.2	1845.6
1992.3	22.5°	1958.3	1926.8	1873.0	1858.1	1846.5	1830.7	1829.9	1829.0	1830.7	1843.1
2059.4	25°	2026.3	1988.2	1916.1	1871.3	1832.4	1810.8	1813.3	1814.1	1815.8	1825.7
2129.1	27.5°	2100.0	2057.8	1955.8	1867.2	1796.7	1781.8	1777.7	1780.2	1786.0	1801.7
2198.7	30°	2173.8	2124.1	1992.3	1850.6	1752.0	1731.3	1718.0	1723.8	1742.0	1757.8
2259.2	32.5°	2240.9	2191.2	2021.3	1814.1	1694.8	1662.5	1645.1	1652.5	1670.8	1676.6
2326.3	35°	2319.7	2263.3	2033.7	1756.1	1632.6	1582.9	1559.7	1548.9	1558.0	1552.2
2405.0	37.5°	2407.5	2348.7	2032.1	1679.9	1559.7	1502.5	1470.2	1429.6	1410.5	1390.6
2521.1	40°	2537.6	2453.1	2012.2	1587.9	1469.4	1417.2	1359.1	1290.4	1247.3	1208.3
2708.3	42.5°	2715.0	2598.1	1975.7	1486.8	1367.4	1318.5	1239.8	1159.4	1091.5	1026.8
2992.6	45°	2979.3	2787.9	1930.2	1379.0	1257.2	1209.1	1123.8	1033.4	956.4	873.5
3396.2	47.5°	3360.6	3043.2	1887.1	1256.4	1141.2	1097.3	1020.2	936.5	845.3	764.9
3979.6	50°	3884.3	3409.5	1847.3	1137.0	1026.8	993.7	932.3	847.0	755.0	690.3
4663.4	52.5°	4550.7	3907.5	1830.7	1021.8	919.9	907.5	858.6	779.0	692.0	637.3
5460.6	55°	5315.6	4503.4	1830.7	911.6	826.3	830.4	796.4	722.7	647.3	598.4
6282.7	57.5°	6096.3	5106.7	1797.6	809.7	746.7	764.1	742.6	677.9	610.0	559.4
7147.1	60°	6815.6	5612.3	1663.3	716.9	676.3	703.6	689.5	634.0	551.1	508.9
7869.8	62.5°	7368.4	5897.4	1404.7	643.1	618.2	649.7	642.3	576.0	540.3	522.9
8463.2	65°	7645.2	5851.0	1074.1	577.6	569.3	618.2	602.5	600.0	571.8	551.9
8656.3	67.5°	7475.3	5451.5	779.0	529.6	541.2	589.2	649.7	659.7	607.5	568.5
8112.6	70°	6730.3	4728.8	580.1	484.0	505.5	590.1	740.9	690.3	595.9	550.3
6506.5	72.5°	*5120.0*	*3526.3*	*450.0*	*435.9*	*459.1*	*594.2*	*781.5*	*676.3*	*562.7*	*608.3*
4053.4	75°	2928.0	1936.0	361.3	377.1	401.1	555.3	760.8	639.8	537.0	558.6
1606.1	77.5°	1116.3	744.2	298.3	319.1	322.4	484.8	727.6	637.3	511.3	498.9
481.5	80°	387.0	290.9	247.0	253.6	249.5	430.9	697.8	554.4	418.5	374.6
198.9	82.5°	158.3	145.0	195.6	187.3	177.4	334.8	563.5	453.3	342.3	302.5
96.1	85°	68.8	92.0	129.3	113.5	102.8	232.0	451.7	383.7	289.2	249.5
31.5	87.5°	14.1	34.8	54.7	51.4	53.0	155.0	320.7	272.7	204.7	153.3
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

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180°
1587.1
1582.9
1613.6
1665.8
1724.6
1779.3
1816.6
1838.2
1850.6
1851.4
1839.0
1817.4
1775.2
1697.3
1570.5
1403.1
1210.8
1021.0
863.6
755.8
686.2
633.2
593.4
551.1
502.2
517.1
545.3
561.9
542.8
603.3
558.6
455.0
362.2
299.2
248.6
120.2
0.0

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