

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: P522711

Luminaire Tested: **GALN-SA3C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16690 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160
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



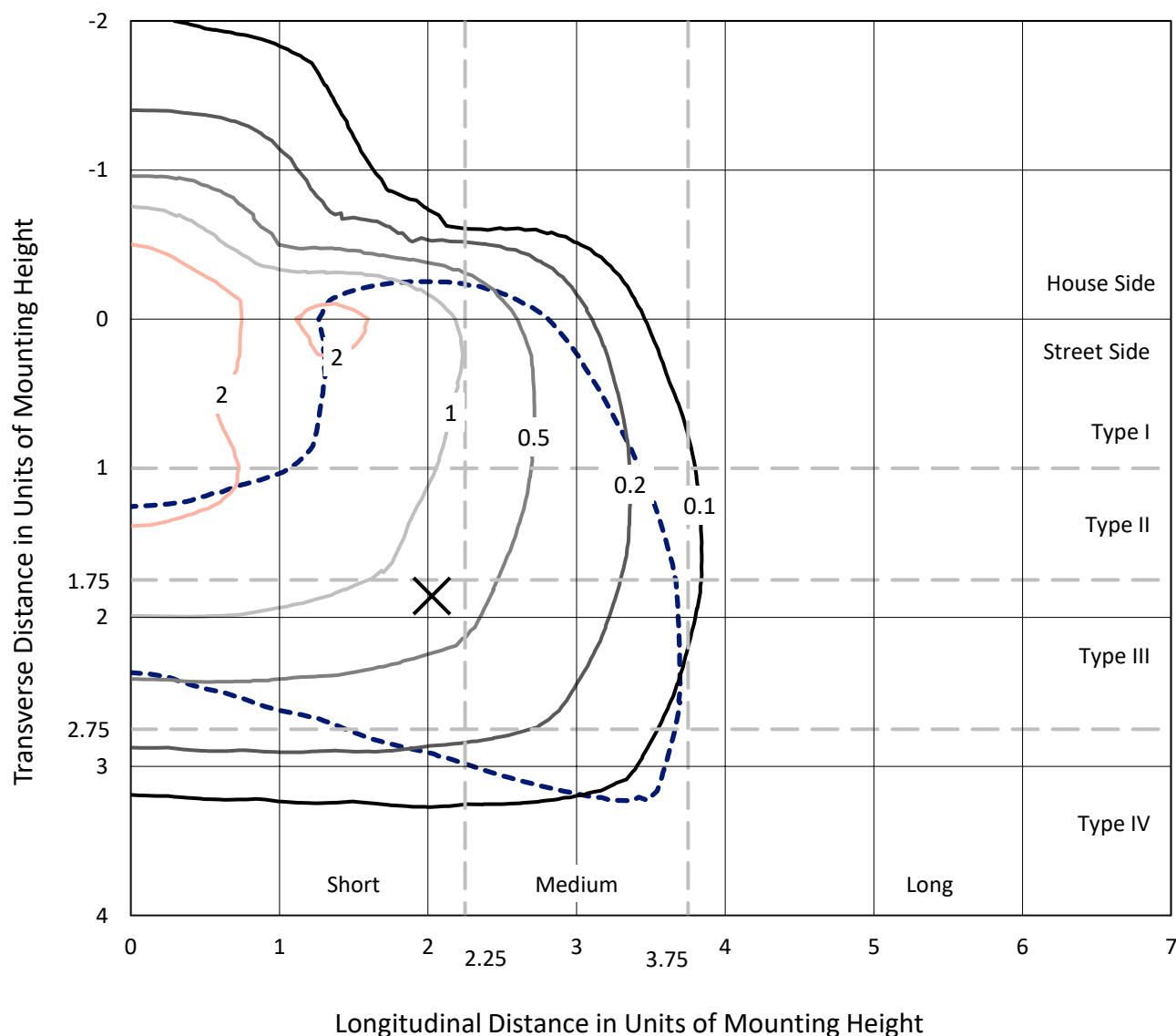
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



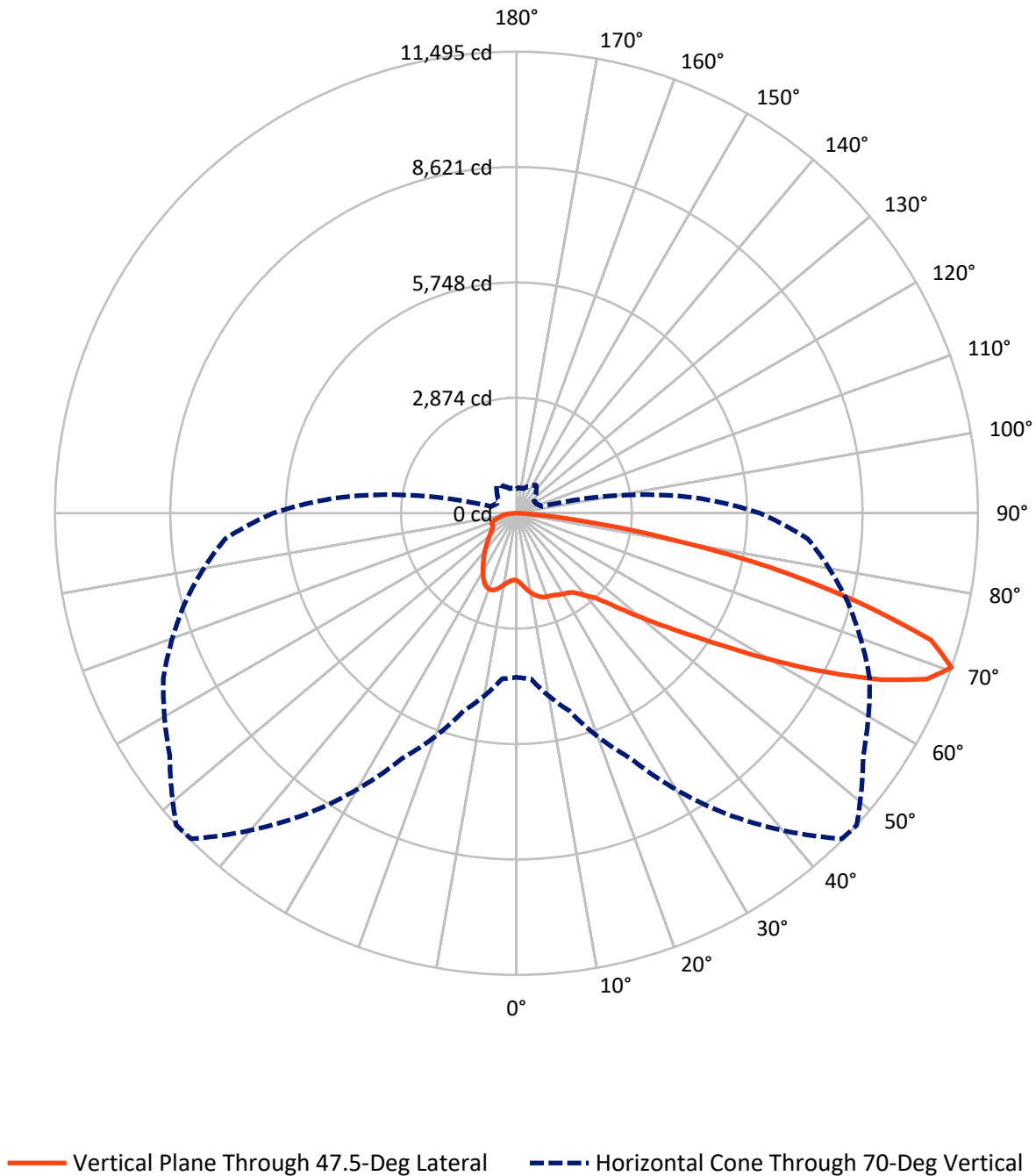
Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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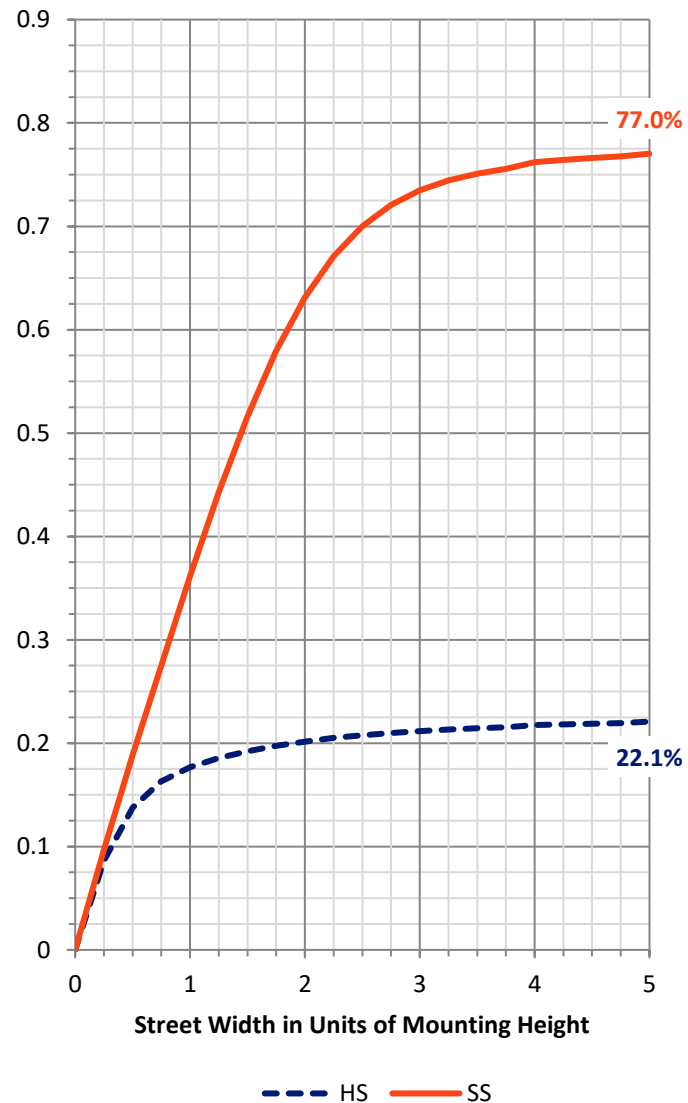
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3778.9	0.0	3778.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12911.1	0.0	12911.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	16690.0	0.0	16690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	1.0
10°-20°	577.4	3.5
20°-30°	960.2	5.8
30°-40°	1360.9	8.2
40°-50°	2009.0	12.0
50°-60°	3479.6	20.8
60°-70°	4915.0	29.4
70°-80°	2825.4	16.9
80°-90°	389.8	2.3
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°	16690.0	100.0
0°-180°	16690.0	100.0

Coefficient of Utilization



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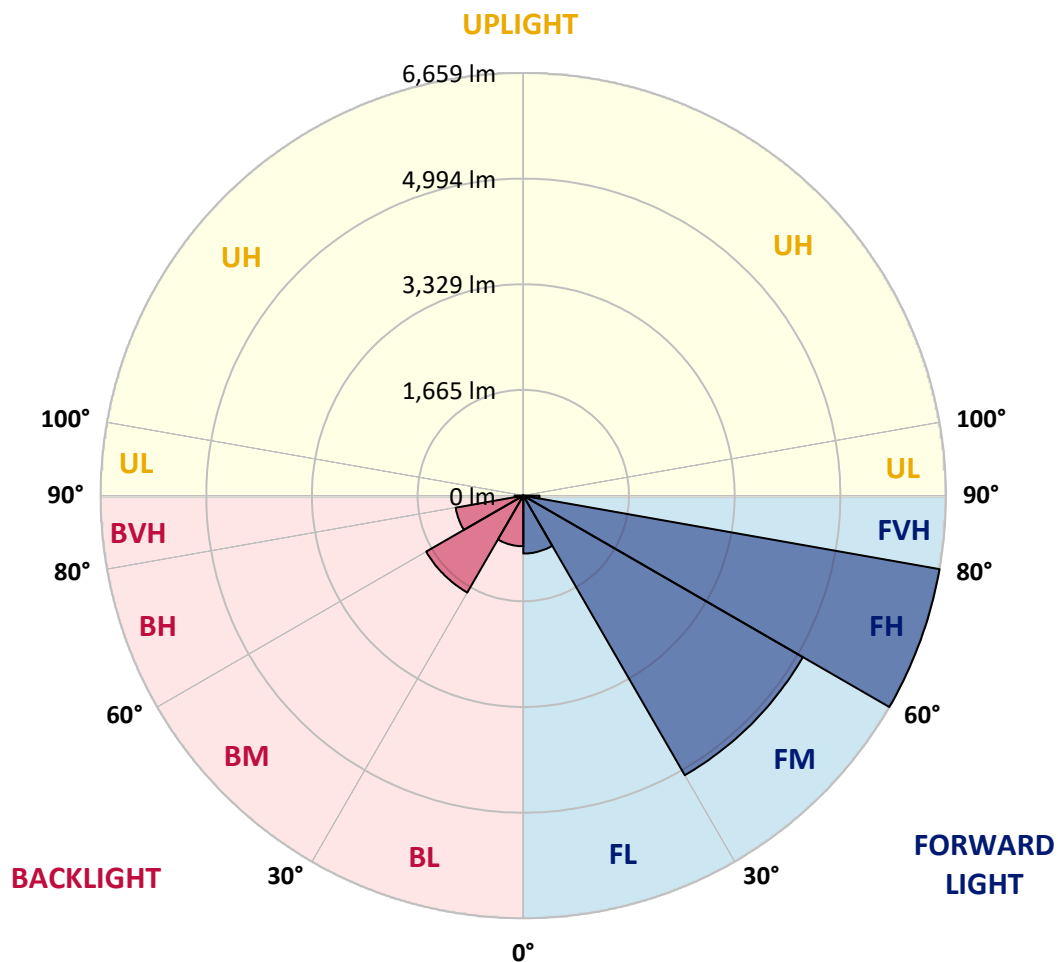
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	912.7	5.5			
FM	(30°-60°)	5085.1	30.5			
FH	(60°-80°)	6658.6	39.9			G3/7500
FVH	(80°-90°)	254.7	1.5			G3/500
BL	(0°-30°)	797.6	4.8	B2/1000		
BM	(30°-60°)	1764.3	10.6	B2/2500		
BH	(60°-80°)	1081.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	135.2	0.8			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°	47.5°	55°	65°	75°	85°
0°	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5
2.5°	1783.5	1777.3	1776.4	1763.0	1755.9	1742.5	1737.1	1724.6	1709.4	1694.2	1679.9
5°	1923.8	1923.8	1917.5	1898.8	1869.3	1838.9	1825.5	1801.4	1758.5	1723.7	1694.2
7.5°	2067.6	2069.3	2056.8	2029.1	1987.2	1938.0	1925.5	1889.8	1829.1	1778.2	1734.4
10°	2191.7	2191.7	2174.7	2137.2	2084.5	2030.9	2018.4	1978.2	1910.4	1847.0	1789.8
12.5°	2286.4	2286.4	2264.0	2214.9	2157.8	2109.5	2095.2	2056.8	1993.4	1922.9	1850.5
15°	2348.0	2343.5	2318.5	2263.1	2207.8	2165.8	2156.0	2123.8	2065.8	1994.3	1913.0
17.5°	2350.7	2348.9	2324.8	2278.3	2230.1	2201.5	2195.3	2173.8	2128.3	2060.4	1974.7
20°	2298.9	2302.4	2286.4	2253.3	2230.1	2217.6	2214.9	2207.8	2175.6	2112.2	2026.5
22.5°	2243.5	2249.7	2234.6	2216.7	2214.9	2227.4	2229.2	2231.0	2210.4	2148.8	2070.2
25°	2230.1	2234.6	2219.4	2203.3	2213.1	2246.2	2253.3	2260.5	2244.4	2192.6	2122.0
27.5°	2298.0	2294.4	2264.9	2230.1	2236.3	2281.0	2290.8	2298.9	2290.8	2246.2	2186.3
30°	2490.0	2478.4	2419.4	2317.6	2285.5	2316.7	2326.6	2348.9	2348.9	2315.8	2256.0
32.5°	2811.5	2789.2	2681.1	2481.1	2369.4	2350.7	2360.5	2397.1	2415.9	2390.0	2324.8
35°	3201.8	3178.6	3024.1	2755.2	2523.0	2418.5	2415.9	2456.9	2507.0	2448.9	2364.1
37.5°	3593.9	3569.8	3384.0	3082.1	2747.2	2561.4	2545.4	2559.7	2581.1	2474.8	2418.5
40°	3986.0	3957.4	3794.8	3447.4	3021.4	2750.8	2708.8	2644.5	2635.6	2559.7	2523.9
42.5°	4374.5	4348.6	4266.4	3857.3	3350.1	2935.7	2871.4	2760.6	2794.5	2749.0	2717.7
45°	4766.5	4768.3	4680.8	4317.3	3746.6	3276.8	3190.2	3016.9	3097.3	3080.3	3098.2
47.5°	5114.0	5109.5	5078.2	4763.9	4238.7	3716.2	3604.6	3403.6	3541.2	3603.7	3740.3
50°	5450.7	5448.0	5449.8	5270.2	4810.3	4238.7	4115.5	3904.7	4214.6	4431.6	4676.3
52.5°	5932.9	5948.1	5840.0	5792.7	5505.1	4855.8	4720.1	4502.2	5010.3	5352.4	5830.2
55°	6417.0	6404.5	6319.6	6368.8	6232.1	5586.4	5444.4	5271.1	5896.3	6270.5	6988.6
57.5°	6701.9	6706.4	6793.0	7033.2	7129.7	6497.4	6368.8	6234.8	6892.1	7157.4	8019.2
60°	6958.2	6978.8	7227.9	7681.6	7943.3	7616.4	7502.1	7371.7	7805.8	7911.2	8914.1
62.5°	7038.6	7102.0	7537.0	8215.7	8736.4	8879.3	8737.3	8449.7	8675.7	8634.6	9520.6
65°	6637.6	6724.2	7503.9	8415.8	9444.6	10077.9	9987.7	9453.6	9417.0	9169.6	9619.7
67.5°	5581.9	5668.6	6669.7	7996.0	9737.6	11115.7	11025.4	10185.9	9867.1	9219.6	8869.5
70°	4084.2	4138.7	5096.1	6732.3	9149.0	11464.0	11495.2	10543.2	9706.3	8539.9	7282.4
72.5°	2353.3	2473.9	3144.6	4736.2	7474.4	10583.4	10800.4	9800.1	8690.0	7124.3	5091.6
75°	1011.9	1014.6	1454.0	2612.3	5062.1	8506.9	8716.8	8123.7	6824.3	4926.4	2718.6
77.5°	481.4	490.3	639.5	1166.4	2786.5	5877.6	6443.8	5739.1	4364.6	2366.7	1027.1
80°	312.6	318.8	391.2	578.7	1366.5	3408.1	3802.9	3310.8	1925.5	845.8	443.0
82.5°	189.3	191.1	261.7	353.7	752.0	1543.3	1819.3	1437.0	821.7	506.4	260.8
85°	115.2	116.1	159.0	218.8	456.4	533.2	547.5	543.0	482.3	331.3	139.3
87.5°	55.4	57.2	82.2	103.6	179.5	165.2	156.3	181.3	227.7	178.6	59.8
90°	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5	1675.5
2.5°	1673.7	1671.0	1664.8	1662.1	1660.3	1661.2	1660.3	1660.3	1661.2	1661.2	1661.2
5°	1681.7	1677.3	1667.4	1667.4	1672.8	1685.3	1696.9	1705.8	1715.7	1714.8	1714.8
7.5°	1716.6	1708.5	1696.9	1700.5	1713.9	1733.5	1754.1	1773.7	1793.4	1795.2	1794.3
10°	1767.5	1759.4	1746.9	1751.4	1772.8	1802.3	1828.2	1856.8	1878.2	1884.5	1882.7
12.5°	1825.5	1809.4	1798.7	1811.2	1845.2	1884.5	1909.5	1930.9	1946.1	1955.0	1951.4
15°	1884.5	1869.3	1856.8	1882.7	1923.8	1960.4	1972.9	1976.5	1979.1	1988.1	1986.3
17.5°	1941.6	1921.1	1916.6	1950.6	1989.9	2005.9	1998.8	1983.6	1972.0	1979.1	1978.2
20°	1992.5	1976.5	1974.7	2008.6	2023.8	2008.6	1978.2	1951.4	1930.9	1932.7	1931.8
22.5°	2040.8	2028.3	2030.0	2044.3	2020.2	1968.4	1918.4	1881.8	1859.5	1863.9	1866.6
25°	2094.3	2081.8	2086.3	2063.1	1983.6	1893.4	1821.1	1789.8	1780.9	1789.8	1796.0
27.5°	2164.0	2156.0	2153.3	2064.0	1918.4	1782.6	1700.5	1688.9	1696.9	1716.6	1726.4
30°	2239.0	2239.0	2224.7	2048.8	1829.1	1649.6	1578.1	1579.9	1607.6	1635.3	1645.1
32.5°	2311.4	2326.6	2281.9	2007.7	1713.9	1520.1	1465.6	1467.4	1491.5	1525.4	1534.4
35°	2371.2	2415.0	2331.0	1932.7	1578.1	1411.1	1370.0	1345.9	1346.8	1372.7	1379.9
37.5°	2453.4	2534.6	2359.6	1821.1	1433.4	1318.2	1271.8	1229.8	1202.1	1191.4	1191.4
40°	2596.3	2715.9	2366.7	1655.8	1296.8	1229.8	1163.7	1113.7	1060.1	1011.9	1003.0
42.5°	2838.3	2989.2	2352.5	1465.6	1173.5	1132.5	1068.2	1006.5	932.4	864.5	859.2
45°	3267.0	3344.7	2314.0	1268.2	1063.7	1038.7	976.2	909.2	830.6	769.9	765.4
47.5°	3953.8	3843.9	2263.1	1093.2	963.7	956.5	908.3	830.6	752.0	710.0	705.6
50°	4956.8	4629.9	2256.0	966.3	883.3	886.9	847.6	776.1	707.3	672.5	667.2
52.5°	6164.2	5579.3	2303.3	877.0	812.7	826.1	806.5	740.4	679.7	650.2	644.8
55°	7336.0	6433.1	2331.9	807.4	746.6	771.6	774.3	719.0	663.6	634.1	630.5
57.5°	8287.2	7076.1	2205.1	744.0	689.5	727.9	747.5	706.5	655.5	633.2	629.6
60°	8949.0	7379.8	1844.3	687.7	647.5	693.1	737.7	707.3	675.2	677.9	679.7
62.5°	9159.7	7244.9	1383.4	645.7	618.9	681.4	753.8	744.0	710.9	731.5	735.0
65°	8810.5	6687.6	1003.0	612.7	593.9	689.5	802.0	770.8	698.4	713.6	713.6
67.5°	7641.5	5761.5	780.6	582.3	565.3	704.7	850.2	768.1	668.9	686.8	670.7
70°	6061.5	4456.6	650.2	548.4	535.0	682.3	854.7	740.4	634.1	637.7	607.3
72.5°	4022.6	2930.3	559.1	516.2	488.5	613.6	818.1	704.7	600.2	579.6	549.3
75°	1971.1	1461.1	487.6	476.0	427.8	534.1	768.1	670.7	563.6	531.4	514.4
77.5°	763.6	621.6	416.2	425.1	372.4	470.7	702.0	622.5	515.3	471.6	458.2
80°	370.6	352.8	341.2	354.6	306.3	401.0	641.3	580.5	470.7	422.4	402.8
82.5°	230.4	217.9	261.7	276.0	235.8	366.2	608.2	544.8	414.4	350.1	334.0
85°	117.0	125.0	175.0	188.4	168.8	291.2	501.0	409.0	299.2	248.3	250.1
87.5°	44.7	59.8	92.0	99.1	90.2	153.6	276.0	238.5	192.0	130.4	120.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)