

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: P452226

Luminaire Tested: **GALN-SA3A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8878 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

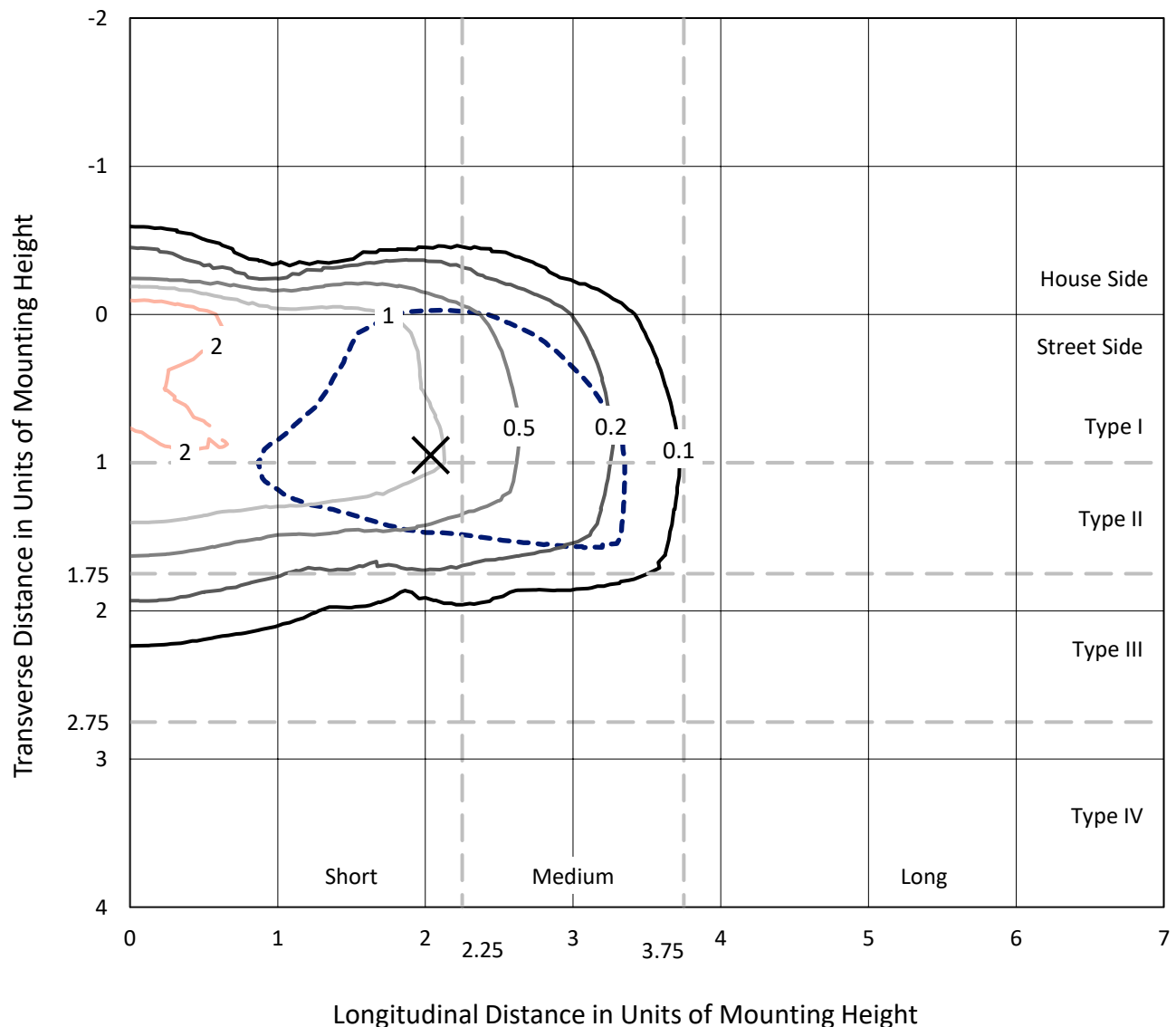


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Iso-Footcandle Lines of Horizontal Illumination

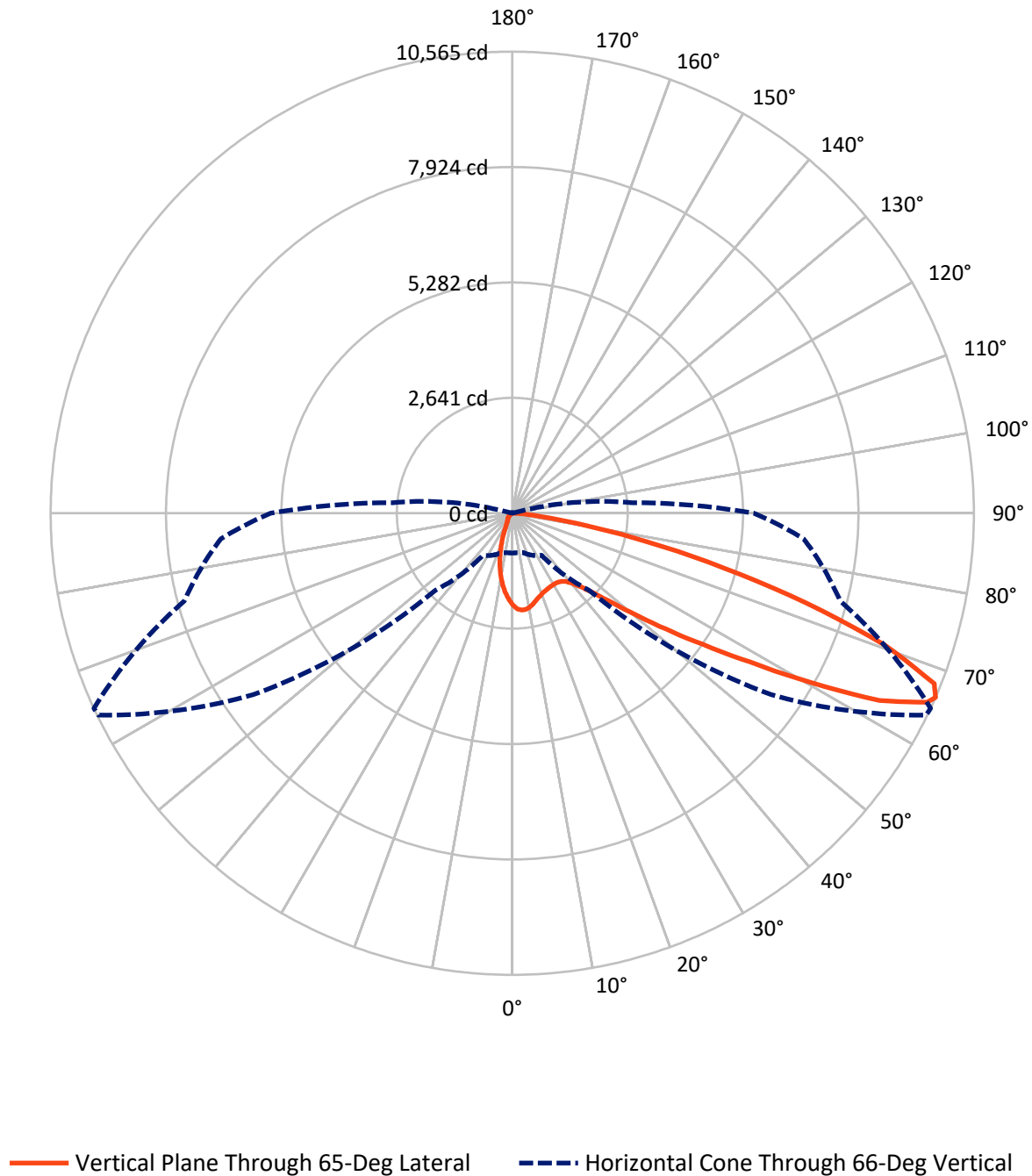
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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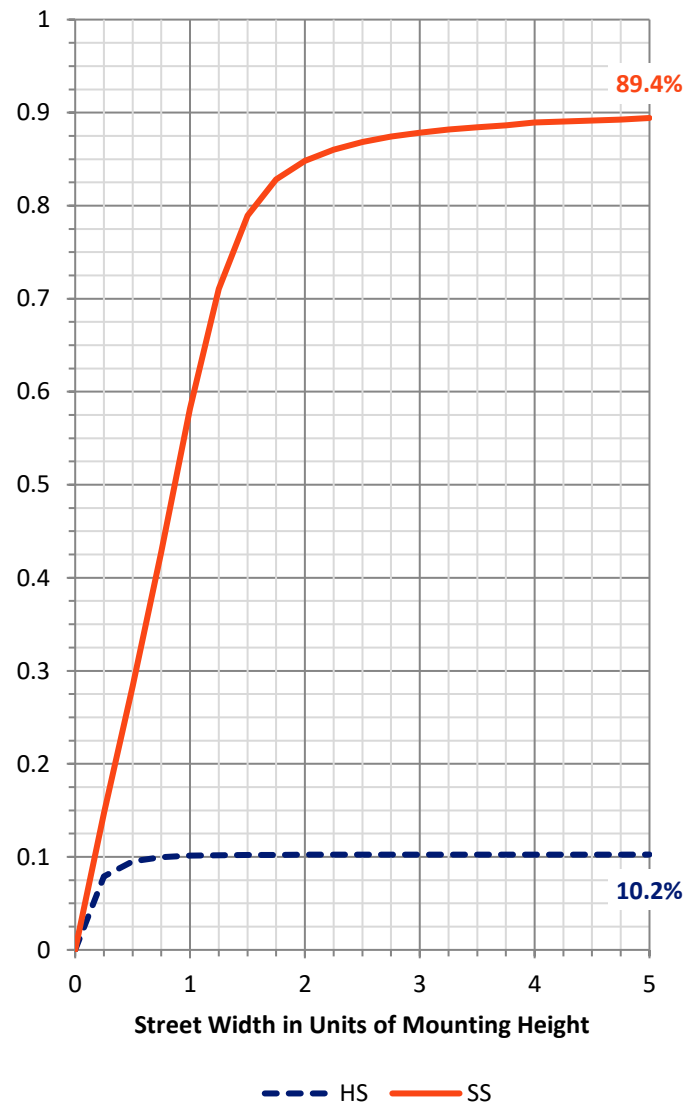
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	918.1	0.0	918.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7959.9	0.0	7959.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	8878.0	0.0	8878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	1.9
10°-20°	375.2	4.2
20°-30°	537.4	6.1
30°-40°	784.9	8.8
40°-50°	1316.2	14.8
50°-60°	2196.5	24.7
60°-70°	2331.6	26.3
70°-80°	1056.0	11.9
80°-90°	108.0	1.2
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°	8878.0	100.0
0°-180°	8878.0	100.0

Coefficient of Utilization



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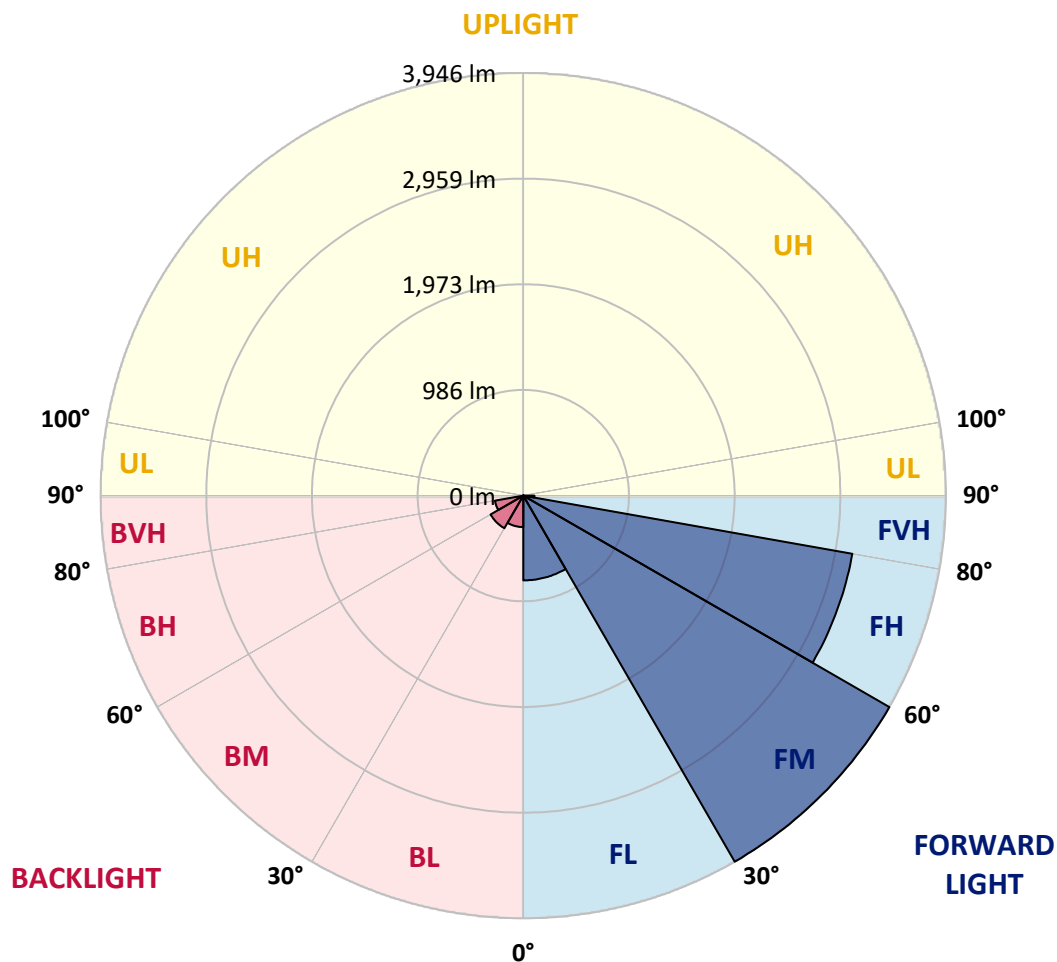
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	791.1	8.9			
FM	(30°-60°)	3945.6	44.4			
FH	(60°-80°)	3118.6	35.1			G2/5000
FVH	(80°-90°)	104.6	1.2			G2/225
BL	(0°-30°)	293.7	3.3	B1/500		
BM	(30°-60°)	352.1	4.0	B1/1000		
BH	(60°-80°)	268.9	3.0	B1/500		G1/500
BVH	(80°-90°)	3.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3
2.5°	2218.6	2221.0	2224.0	2228.2	2231.2	2222.2	2209.6	2195.2	2192.2	2161.7	2124.5
5°	2099.9	2103.5	2129.9	2144.3	2176.7	2206.0	2224.6	2227.0	2225.8	2197.0	2137.7
7.5°	1930.8	1941.0	1966.8	1992.0	2052.5	2108.3	2174.3	2220.4	2223.4	2215.6	2141.9
10°	1793.5	1800.1	1813.3	1863.1	1913.4	1998.6	2090.9	2177.9	2185.1	2216.2	2138.3
12.5°	1686.2	1695.8	1711.9	1750.3	1810.9	1891.2	1996.2	2113.1	2128.1	2204.8	2128.1
15°	1611.2	1616.0	1632.2	1670.0	1728.7	1803.1	1909.2	2045.3	2058.5	2189.8	2126.3
17.5°	1575.8	1581.2	1592.6	1622.6	1671.2	1740.1	1843.9	1990.8	2007.6	2180.3	2132.9
20°	1585.4	1590.2	1590.8	1606.4	1639.4	1697.6	1795.9	1939.8	1961.4	2174.3	2143.7
22.5°	1640.0	1640.6	1633.4	1626.2	1637.6	1679.6	1766.5	1907.4	1929.6	2173.1	2156.3
25°	1721.5	1723.3	1711.3	1686.2	1663.4	1685.0	1759.9	1886.4	1906.2	2170.1	2164.1
27.5°	1834.3	1833.7	1830.1	1788.1	1723.3	1708.9	1765.3	1875.0	1891.8	2161.7	2167.1
30°	1992.0	1987.2	1979.4	1932.0	1833.1	1767.1	1788.1	1867.8	1883.4	2149.7	2159.3
32.5°	2147.3	2165.3	2164.1	2119.1	1995.6	1870.8	1835.5	1877.4	1888.8	2141.9	2147.9
35°	2328.4	2327.8	2373.9	2357.1	2212.6	2003.4	1916.4	1909.2	1918.2	2147.3	2142.5
37.5°	2496.3	2511.9	2583.8	2601.2	2469.3	2190.4	2030.9	1977.6	1980.6	2183.9	2155.7
40°	2705.5	2735.5	2842.8	2901.0	2784.7	2468.1	2200.0	2102.9	2103.5	2273.8	2205.4
42.5°	2975.4	3022.7	3122.9	3220.0	3157.7	2796.7	2453.7	2301.4	2300.2	2432.1	2319.4
45°	3303.4	3336.3	3450.3	3604.4	3564.8	3255.4	2823.1	2609.0	2593.4	2691.7	2521.4
47.5°	3586.4	3631.4	3747.1	3922.8	4102.7	3815.4	3264.4	3031.7	3021.5	3104.9	2868.0
50°	3709.9	3749.5	3871.2	4117.7	4553.6	4550.6	3921.6	3648.7	3631.4	3676.3	3404.1
52.5°	3574.4	3611.6	3734.5	4041.5	4765.9	5446.4	4873.8	4422.9	4401.9	4344.3	4044.5
55°	3110.3	3140.9	3322.6	3675.1	4684.3	6043.7	6185.8	5379.3	5297.7	5074.1	4769.5
57.5°	2476.5	2460.9	2573.6	2983.2	4205.8	6243.9	7532.6	6570.7	6425.0	5704.9	5382.9
60°	1716.1	1764.1	1809.7	2079.5	3162.4	5896.8	8370.2	8068.6	7876.7	6325.5	5970.5
62.5°	1261.6	1293.4	1323.4	1448.1	1988.4	4708.3	8518.3	9607.3	9437.0	6984.5	6531.2
65°	997.8	1000.2	1012.2	1135.1	1310.2	3061.7	7806.6	10474.9	10431.2	7618.9	6758.4
66°	909.0	909.6	928.2	1060.1	1175.9	2493.3	7236.3	10540.9	10564.9	7771.2	6691.9
67.5°	794.5	792.1	819.1	952.8	1070.9	1797.7	6215.8	10273.5	10415.6	7888.1	6452.6
70°	615.8	612.8	645.8	799.3	986.4	1199.3	4131.5	8821.2	9050.2	7648.9	5709.1
72.5°	410.1	412.5	468.9	630.8	941.4	1055.9	2485.5	6710.5	7034.3	6316.5	4491.2
75°	239.3	243.4	307.6	468.9	817.3	1006.8	1406.7	4785.0	4991.9	4361.7	2797.9
77.5°	125.3	127.1	172.1	309.4	626.6	934.8	937.2	3056.9	3154.1	2119.7	1107.5
80°	66.6	64.8	92.3	186.5	431.1	820.9	760.3	1618.4	1682.6	629.6	280.0
82.5°	25.2	27.6	49.2	122.3	254.8	589.4	654.8	715.4	693.2	138.5	117.5
85°	4.8	6.0	21.0	72.6	128.3	246.4	482.7	350.8	325.0	52.2	67.8
87.5°	0.6	1.2	6.0	17.4	18.6	83.3	142.7	97.1	83.9	19.2	28.2
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°	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3	2105.3
2.5°	2106.5	2090.3	2036.3	1983.0	1928.4	1879.2	1845.7	1791.1	1777.3	1757.5	1746.1
5°	2102.3	2064.5	1960.8	1847.5	1741.9	1628.0	1541.0	1457.1	1412.1	1389.3	1380.9
7.5°	2090.3	2030.3	1868.4	1691.0	1521.9	1351.6	1203.5	1090.7	1018.2	968.4	934.8
10°	2066.3	1983.6	1761.1	1517.1	1261.6	1036.8	849.1	706.4	596.0	561.3	562.5
12.5°	2041.7	1931.4	1641.2	1324.0	1007.4	723.8	524.7	411.9	359.2	341.8	338.2
15°	2019.0	1881.6	1523.7	1136.9	750.1	468.9	338.2	298.6	284.2	281.2	280.6
17.5°	2007.0	1835.5	1398.3	922.8	523.5	318.4	271.0	260.2	256.0	253.0	251.8
20°	1996.8	1795.3	1278.4	722.6	358.0	260.8	242.9	232.7	225.5	222.5	220.7
22.5°	1989.6	1753.9	1154.3	559.5	274.0	231.5	215.3	202.1	191.9	188.3	185.9
25°	1978.8	1708.3	1029.0	408.9	230.9	205.7	187.1	171.5	158.3	151.7	150.5
27.5°	1963.2	1656.8	891.6	302.8	206.3	182.9	160.1	140.9	127.7	120.5	121.1
30°	1938.0	1602.8	754.3	240.5	186.5	159.5	134.9	116.3	103.7	98.3	97.7
32.5°	1908.0	1537.5	628.4	206.3	168.5	138.5	112.7	96.5	86.9	82.7	82.1
35°	1879.8	1471.5	500.1	185.3	149.9	119.3	94.7	81.0	73.8	70.2	70.8
37.5°	1864.2	1412.7	389.8	168.5	134.9	102.5	81.5	69.6	63.0	60.0	59.4
40°	1874.4	1364.8	310.0	153.5	118.1	88.1	70.2	60.0	53.4	49.2	49.2
42.5°	1922.4	1343.8	250.0	139.1	102.5	76.2	61.2	51.6	44.4	40.2	40.8
45°	2068.7	1366.0	209.3	125.9	88.1	66.0	52.8	42.6	36.0	33.0	32.4
47.5°	2311.6	1449.3	181.1	112.1	75.6	56.4	44.4	35.4	28.8	26.4	25.8
50°	2736.1	1621.4	160.1	98.3	64.2	48.0	36.6	28.2	22.8	20.4	20.4
52.5°	3320.2	1996.8	145.1	82.7	54.0	40.8	30.0	22.8	18.0	16.2	15.6
55°	3930.6	2392.5	137.3	69.6	45.0	33.6	24.0	18.0	13.8	12.0	11.4
57.5°	4517.6	2703.1	128.3	56.4	36.0	25.8	18.6	13.8	9.6	8.4	7.8
60°	5080.7	2954.4	109.1	45.0	28.2	18.6	13.8	9.6	6.6	5.4	5.4
62.5°	5584.4	3100.7	85.7	36.0	21.6	13.2	9.0	7.2	4.8	3.6	3.6
65°	5643.1	2910.6	64.8	27.6	15.6	8.4	5.4	5.4	3.6	2.4	2.4
66°	5525.0	2749.3	57.0	25.2	13.8	7.2	4.8	4.2	3.0	1.8	1.8
67.5°	5261.2	2474.1	49.2	21.6	11.4	5.4	3.6	3.6	2.4	1.2	1.2
70°	4545.8	2020.8	39.0	16.2	8.4	4.2	2.4	2.4	1.8	1.2	1.2
72.5°	3464.7	1508.7	31.8	12.0	6.0	3.0	1.8	1.8	1.8	1.2	1.2
75°	2089.7	812.5	24.6	9.0	5.4	2.4	1.2	1.8	2.4	1.8	1.2
77.5°	769.9	276.4	19.2	7.2	4.2	2.4	1.2	1.2	2.4	1.8	1.8
80°	188.9	72.0	13.8	6.0	4.2	2.4	1.2	1.2	2.4	2.4	2.4
82.5°	87.5	30.6	9.6	5.4	4.2	2.4	1.2	1.2	1.8	2.4	2.4
85°	50.4	14.4	7.8	6.0	4.2	2.4	1.2	1.2	1.8	2.4	2.4
87.5°	20.4	7.2	7.2	6.0	4.8	3.0	1.2	1.2	1.2	1.8	1.8
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)