

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: P522710

Luminaire Tested: **GALN-SA3C-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522710  
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-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 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: 15439 lumens  
Efficiency: N/A  
Efficacy: 96.5 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

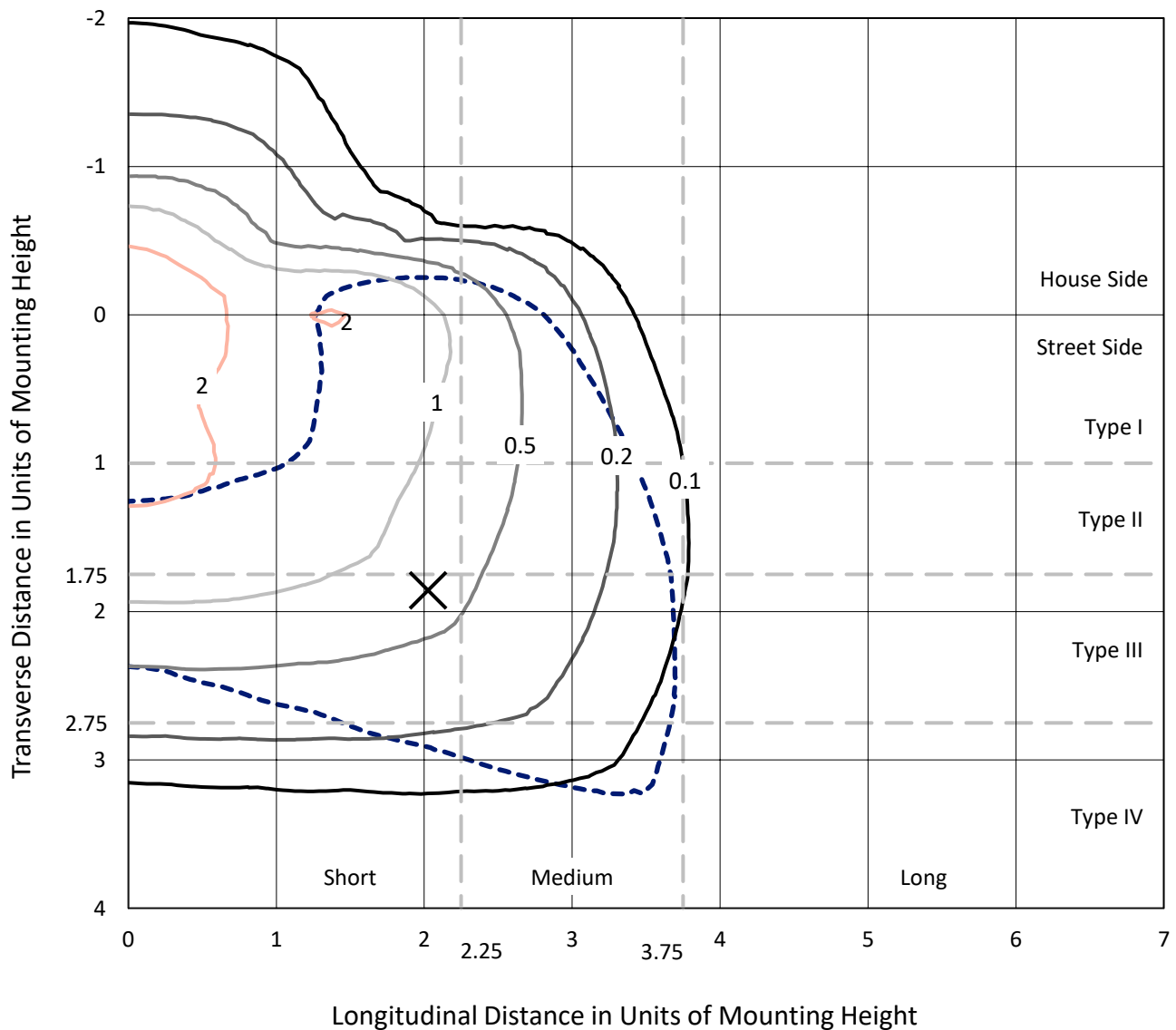


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

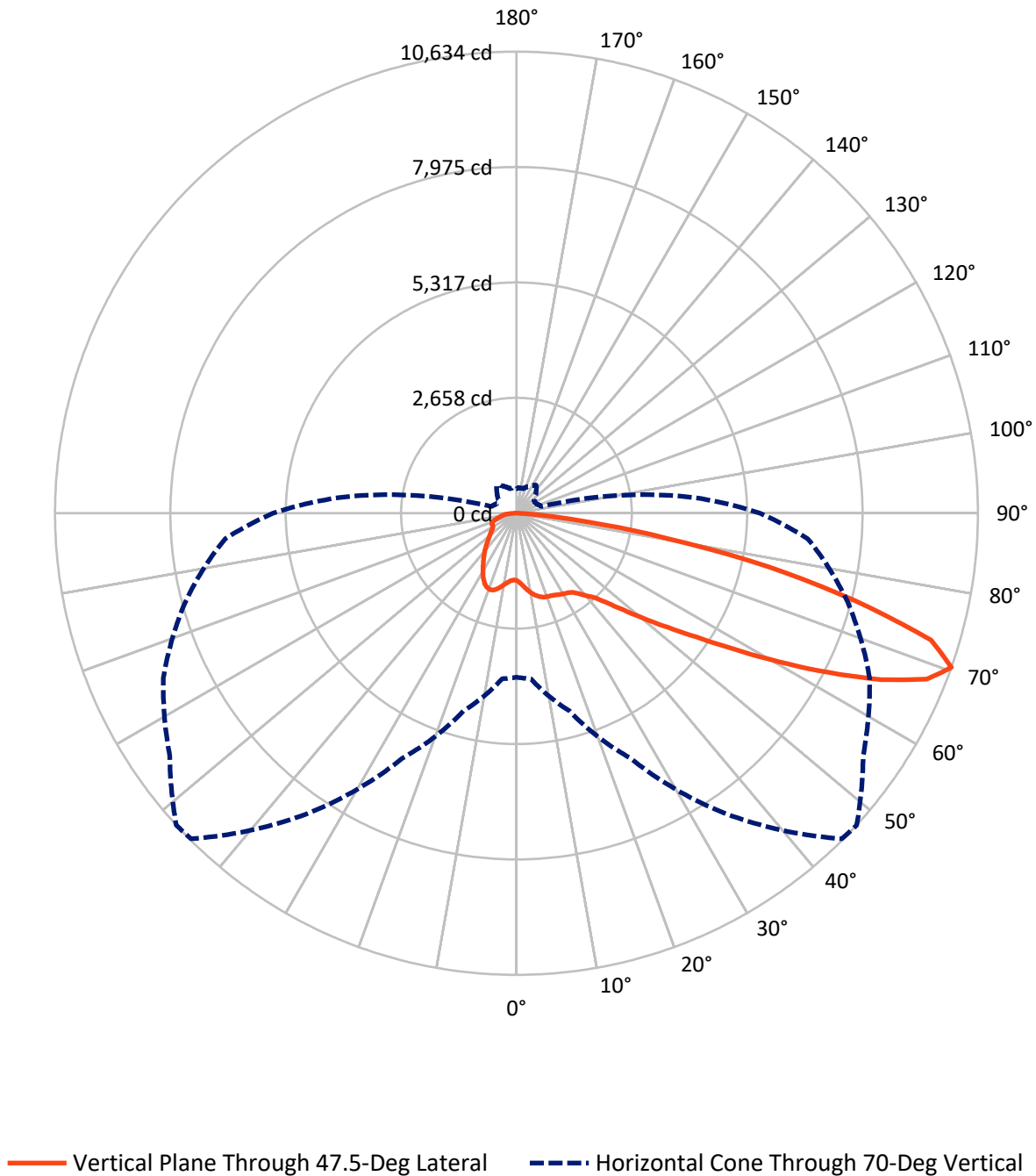


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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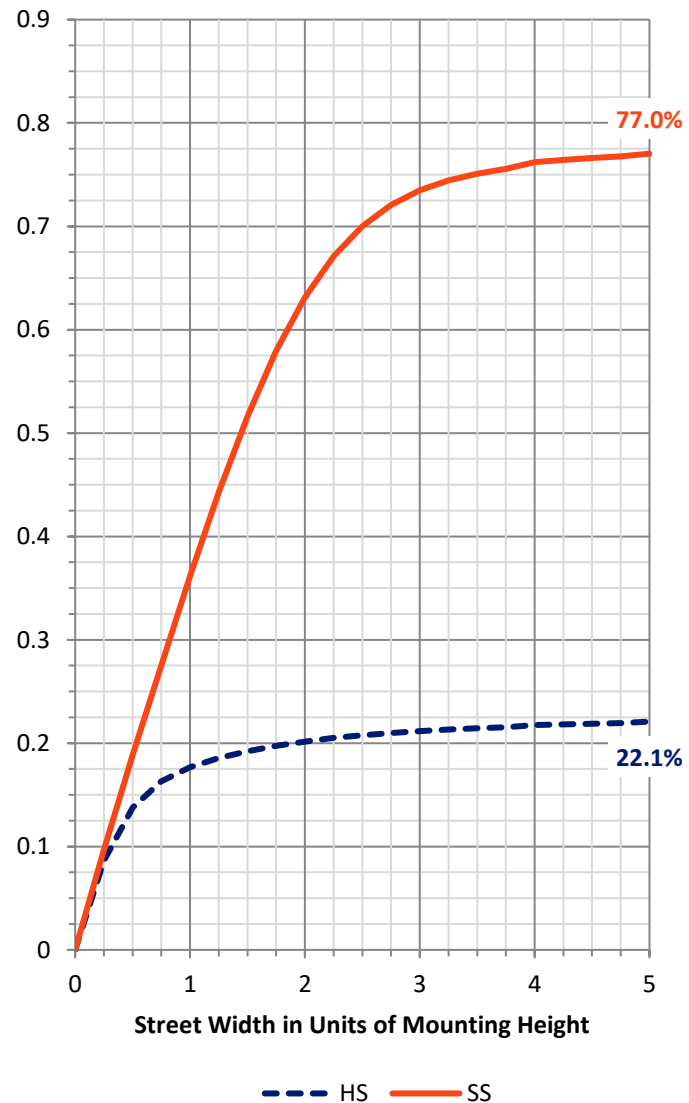
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3495.7	0.0	3495.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	11943.3	0.0	11943.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	15439.0	0.0	15439.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	1.0
10°-20°	534.1	3.5
20°-30°	888.2	5.8
30°-40°	1258.9	8.2
40°-50°	1858.4	12.0
50°-60°	3218.8	20.8
60°-70°	4546.6	29.4
70°-80°	2613.7	16.9
80°-90°	360.6	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°	15439.0	100.0
0°-180°	15439.0	100.0

**Coefficient of Utilization**



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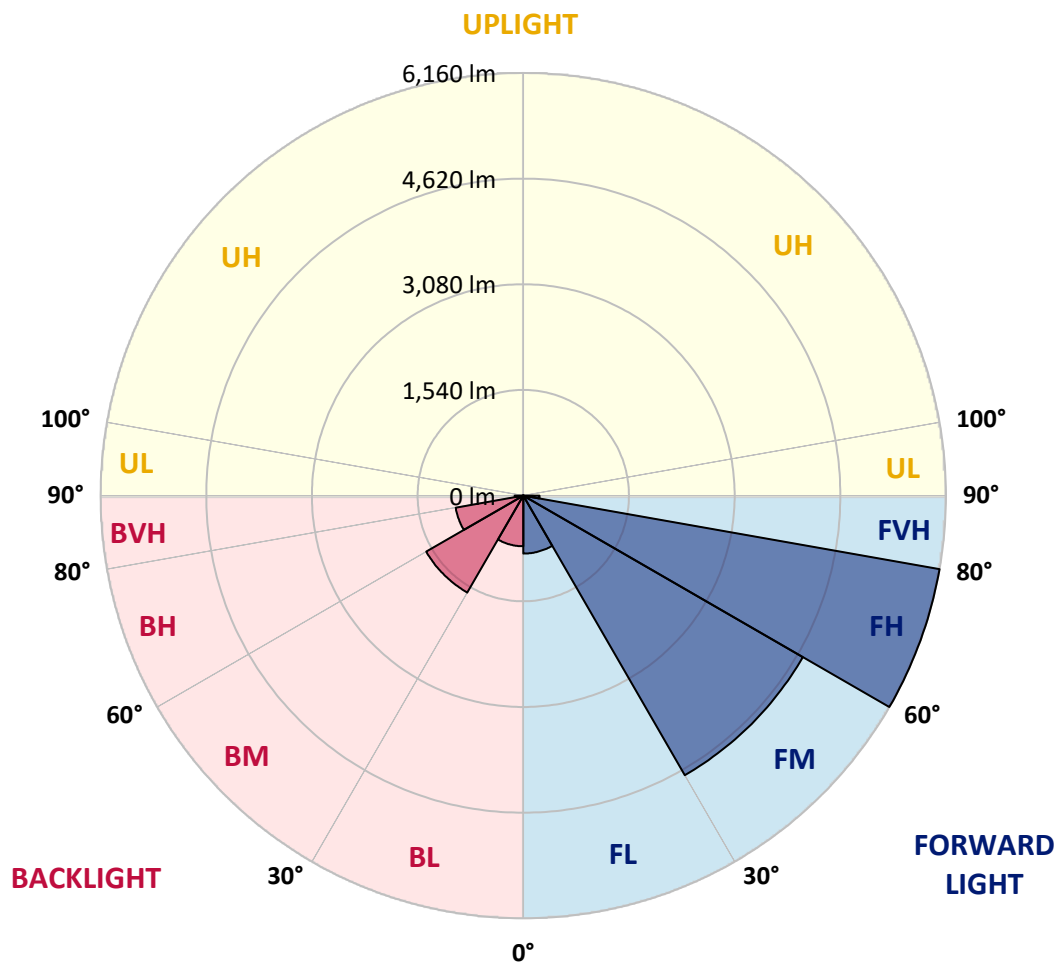
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	844.3	5.5			
FM	(30°-60°)	4704.0	30.5			
FH	(60°-80°)	6159.5	39.9			G3/7500
FVH	(80°-90°)	235.6	1.5			G3/500
BL	(0°-30°)	737.8	4.8	B2/1000		
BM	(30°-60°)	1632.1	10.6	B2/2500		
BH	(60°-80°)	1000.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	125.1	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°	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9
2.5°	1649.9	1644.1	1643.2	1630.9	1624.2	1611.9	1606.9	1595.3	1581.3	1567.2	1554.0
5°	1779.6	1779.6	1773.8	1756.4	1729.2	1701.1	1688.7	1666.4	1626.7	1594.5	1567.2
7.5°	1912.6	1914.2	1902.7	1877.1	1838.2	1792.8	1781.2	1748.2	1692.0	1644.9	1604.4
10°	2027.4	2027.4	2011.7	1977.0	1928.3	1878.7	1867.1	1830.0	1767.2	1708.5	1655.6
12.5°	2115.0	2115.0	2094.3	2048.9	1996.0	1951.4	1938.2	1902.7	1844.0	1778.7	1711.8
15°	2172.0	2167.9	2144.7	2093.5	2042.3	2003.5	1994.4	1964.6	1910.9	1844.8	1769.7
17.5°	2174.5	2172.8	2150.5	2107.6	2062.9	2036.5	2030.7	2010.9	1968.8	1906.0	1826.7
20°	2126.6	2129.9	2115.0	2084.4	2062.9	2051.4	2048.9	2042.3	2012.5	1953.9	1874.6
22.5°	2075.3	2081.1	2067.1	2050.5	2048.9	2060.5	2062.1	2063.8	2044.8	1987.8	1915.1
25°	2062.9	2067.1	2053.0	2038.2	2047.2	2077.8	2084.4	2091.0	2076.2	2028.2	1963.0
27.5°	2125.7	2122.4	2095.2	2062.9	2068.7	2110.0	2119.1	2126.6	2119.1	2077.8	2022.5
30°	2303.4	2292.6	2238.1	2143.9	2114.2	2143.1	2152.2	2172.8	2172.8	2142.3	2086.9
32.5°	2600.8	2580.1	2480.2	2295.1	2191.8	2174.5	2183.6	2217.4	2234.8	2210.8	2150.5
35°	2961.8	2940.3	2797.4	2548.7	2333.9	2237.3	2234.8	2272.8	2319.1	2265.4	2186.9
37.5°	3324.5	3302.2	3130.3	2851.1	2541.3	2369.4	2354.6	2367.8	2387.6	2289.3	2237.3
40°	3687.2	3660.7	3510.4	3189.0	2794.9	2544.6	2505.8	2446.3	2438.0	2367.8	2334.7
42.5°	4046.6	4022.6	3946.6	3568.2	3099.0	2715.6	2656.1	2553.7	2585.1	2542.9	2514.0
45°	4409.3	4410.9	4329.9	3993.7	3465.8	3031.2	2951.1	2790.8	2865.1	2849.5	2866.0
47.5°	4730.6	4726.5	4697.6	4406.8	3921.0	3437.7	3334.4	3148.5	3275.8	3333.6	3460.0
50°	5042.1	5039.6	5041.3	4875.2	4449.7	3921.0	3807.0	3612.0	3898.7	4099.4	4325.8
52.5°	5488.2	5502.3	5402.3	5358.5	5092.5	4491.9	4366.3	4164.7	4634.8	4951.2	5393.2
55°	5936.0	5924.4	5846.0	5891.4	5765.0	5167.7	5036.3	4876.0	5454.4	5800.5	6464.8
57.5°	6199.6	6203.7	6283.8	6506.1	6595.3	6010.4	5891.4	5767.5	6375.5	6620.9	7418.2
60°	6436.7	6455.7	6686.2	7105.9	7347.9	7045.6	6939.8	6819.2	7220.7	7318.2	8246.0
62.5°	6511.0	6569.7	6972.0	7599.9	8081.6	8213.8	8082.4	7816.4	8025.4	7987.4	8806.9
65°	6140.1	6220.2	6941.5	7785.0	8736.7	9322.5	9239.0	8745.0	8711.1	8482.3	8898.6
67.5°	5163.5	5243.7	6169.8	7396.7	9007.7	10282.5	10199.0	9422.4	9127.5	8528.5	8204.7
70°	3778.1	3828.5	4714.1	6227.6	8463.3	10604.7	10633.6	9752.9	8978.8	7899.8	6736.6
72.5°	2177.0	2288.5	2908.9	4381.2	6914.2	9790.1	9990.8	9065.5	8038.6	6590.3	4710.0
75°	936.0	938.5	1345.0	2416.5	4682.7	7869.2	8063.4	7514.8	6312.7	4557.1	2514.9
77.5°	445.3	453.6	591.5	1079.0	2577.6	5437.0	5960.8	5309.0	4037.5	2189.3	950.1
80°	289.2	294.9	361.9	535.4	1264.0	3152.7	3517.8	3062.6	1781.2	782.4	409.8
82.5°	175.1	176.8	242.1	327.2	695.6	1427.6	1682.9	1329.3	760.1	468.4	241.2
85°	106.6	107.4	147.1	202.4	422.2	493.2	506.4	502.3	446.1	306.5	128.9
87.5°	51.2	52.9	76.0	95.8	166.1	152.8	144.6	167.7	210.7	165.2	55.4
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°	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9	1549.9
2.5°	1548.2	1545.8	1540.0	1537.5	1535.8	1536.7	1535.8	1535.8	1536.7	1536.7	1536.7
5°	1555.7	1551.5	1542.5	1542.5	1547.4	1559.0	1569.7	1578.0	1587.1	1586.2	1586.2
7.5°	1587.9	1580.5	1569.7	1573.0	1585.4	1603.6	1622.6	1640.8	1658.9	1660.6	1659.8
10°	1635.0	1627.5	1616.0	1620.1	1639.9	1667.2	1691.2	1717.6	1737.4	1743.2	1741.6
12.5°	1688.7	1673.8	1663.9	1675.5	1706.9	1743.2	1766.3	1786.2	1800.2	1808.5	1805.2
15°	1743.2	1729.2	1717.6	1741.6	1779.6	1813.4	1825.0	1828.3	1830.8	1839.0	1837.4
17.5°	1796.1	1777.1	1773.0	1804.3	1840.7	1855.6	1849.0	1834.9	1824.2	1830.8	1830.0
20°	1843.2	1828.3	1826.7	1858.1	1872.1	1858.1	1830.0	1805.2	1786.2	1787.8	1787.0
22.5°	1887.8	1876.2	1877.9	1891.1	1868.8	1820.9	1774.6	1740.7	1720.1	1724.2	1726.7
25°	1937.4	1925.8	1929.9	1908.4	1834.9	1751.5	1684.6	1655.6	1647.4	1655.6	1661.4
27.5°	2001.8	1994.4	1991.9	1909.3	1774.6	1649.0	1573.0	1562.3	1569.7	1587.9	1597.0
30°	2071.2	2071.2	2058.0	1895.2	1692.0	1525.9	1459.8	1461.5	1487.1	1512.7	1521.8
32.5°	2138.1	2152.2	2110.9	1857.2	1585.4	1406.1	1355.7	1357.4	1379.7	1411.1	1419.4
35°	2193.5	2234.0	2156.3	1787.8	1459.8	1305.3	1267.3	1245.0	1245.9	1269.8	1276.4
37.5°	2269.5	2344.7	2182.7	1684.6	1326.0	1219.4	1176.5	1137.6	1112.0	1102.1	1102.1
40°	2401.7	2512.4	2189.3	1531.7	1199.6	1137.6	1076.5	1030.2	980.7	936.0	927.8
42.5°	2625.6	2765.2	2176.1	1355.7	1085.6	1047.6	988.1	931.1	862.5	799.7	794.8
45°	3022.1	3094.0	2140.6	1173.2	984.0	960.8	903.0	841.0	768.3	712.2	708.0
47.5°	3657.4	3555.8	2093.5	1011.2	891.4	884.8	840.2	768.3	695.6	656.8	652.7
50°	4585.2	4282.9	2086.9	893.9	817.1	820.4	784.0	717.9	654.3	622.1	617.1
52.5°	5702.2	5161.1	2130.7	811.3	751.8	764.2	746.0	684.9	628.7	601.4	596.5
55°	6786.1	5950.9	2157.1	746.9	690.7	713.8	716.3	665.1	613.8	586.6	583.3
57.5°	7666.0	6545.7	2039.8	688.2	637.8	673.3	691.5	653.5	606.4	585.8	582.4
60°	8278.2	6826.6	1706.0	636.1	599.0	641.1	682.4	654.3	624.6	627.1	628.7
62.5°	8473.2	6701.9	1279.7	597.3	572.5	630.4	697.3	688.2	657.6	676.6	679.9
65°	8150.1	6186.3	927.8	566.8	549.4	637.8	741.9	713.0	646.1	660.1	660.1
67.5°	7068.7	5329.6	722.1	538.7	523.0	651.8	786.5	710.5	618.8	635.3	620.5
70°	5607.2	4122.6	601.4	507.3	494.9	631.2	790.6	684.9	586.6	589.9	561.8
72.5°	3721.1	2710.7	517.2	477.5	451.9	567.6	756.8	651.8	555.2	536.2	508.1
75°	1823.4	1351.6	451.1	440.3	395.7	494.0	710.5	620.5	521.3	491.6	475.9
77.5°	706.4	575.0	385.0	393.3	344.5	435.4	649.4	575.8	476.7	436.2	423.8
80°	342.9	326.3	315.6	328.0	283.4	370.9	593.2	537.0	435.4	390.8	372.6
82.5°	213.2	201.6	242.1	255.3	218.1	338.7	562.6	504.0	383.3	323.9	309.0
85°	108.2	115.7	161.9	174.3	156.1	269.3	463.5	378.4	276.8	229.7	231.3
87.5°	41.3	55.4	85.1	91.7	83.4	142.1	255.3	220.6	177.6	120.6	111.5
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)