

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: P451733

Luminaire Tested: **GALN-SA2C-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451733  
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-SA2C-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA 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: 8506 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

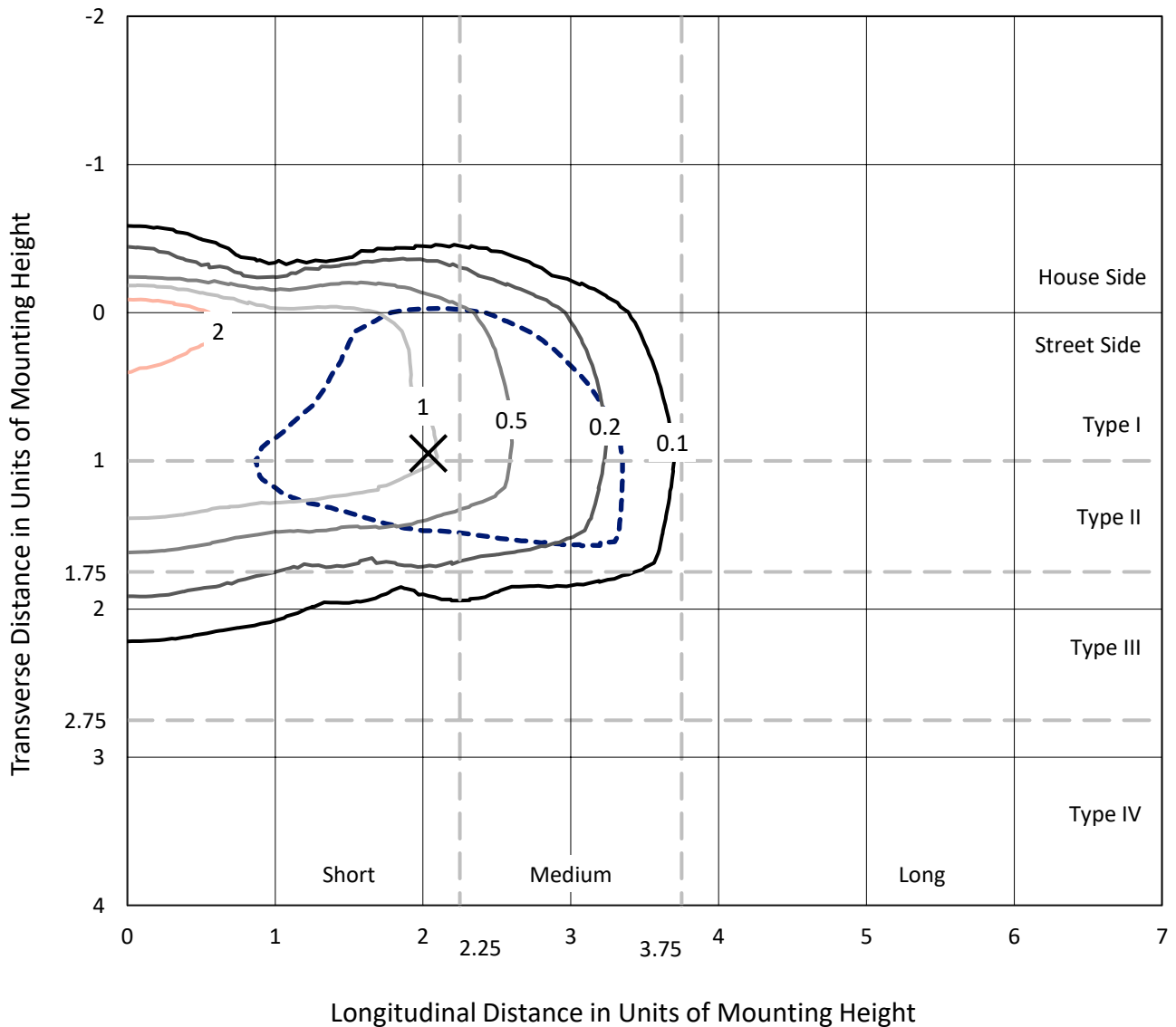
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

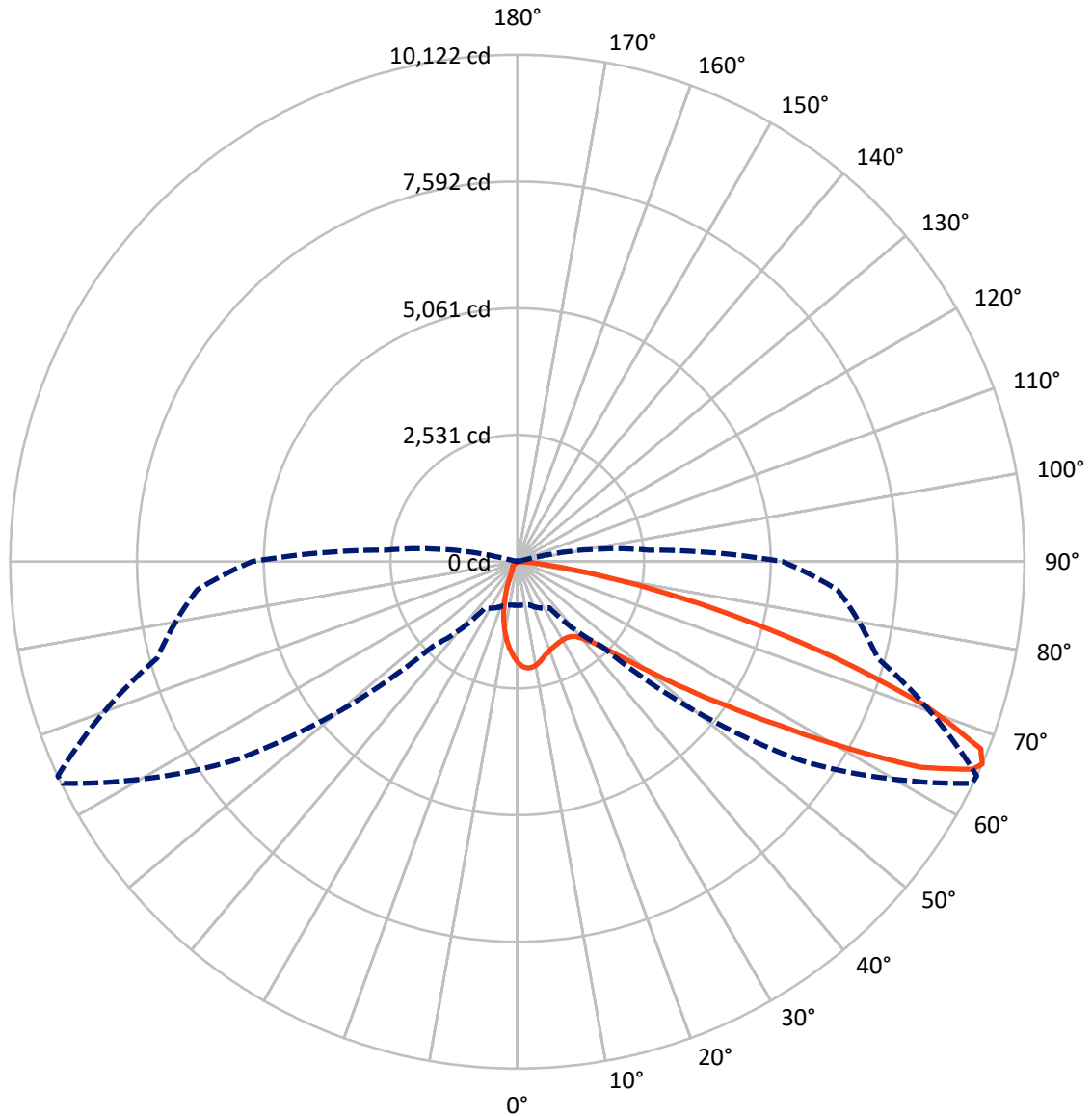
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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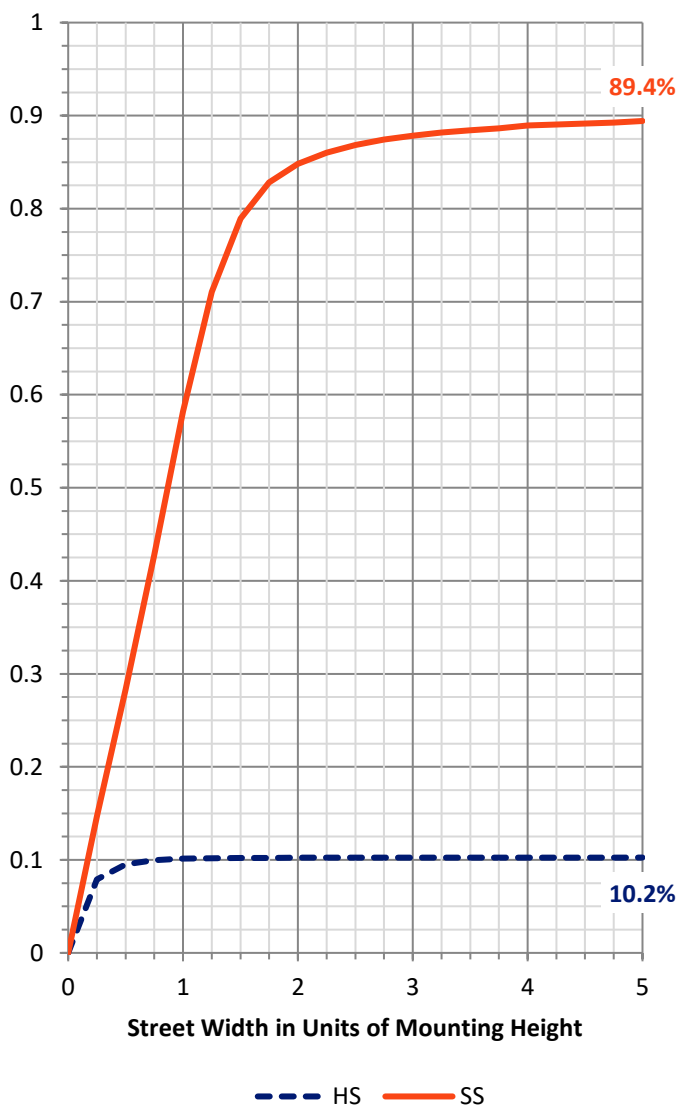
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	879.6	0.0	879.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	7626.4	0.0	7626.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	8506.0	0.0	8506.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.0	1.9
10°-20°	359.4	4.2
20°-30°	514.9	6.1
30°-40°	752.1	8.8
40°-50°	1261.1	14.8
50°-60°	2104.5	24.7
60°-70°	2233.9	26.3
70°-80°	1011.7	11.9
80°-90°	103.5	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°	8506.0	100.0
0°-180°	8506.0	100.0

**Coefficient of Utilization**



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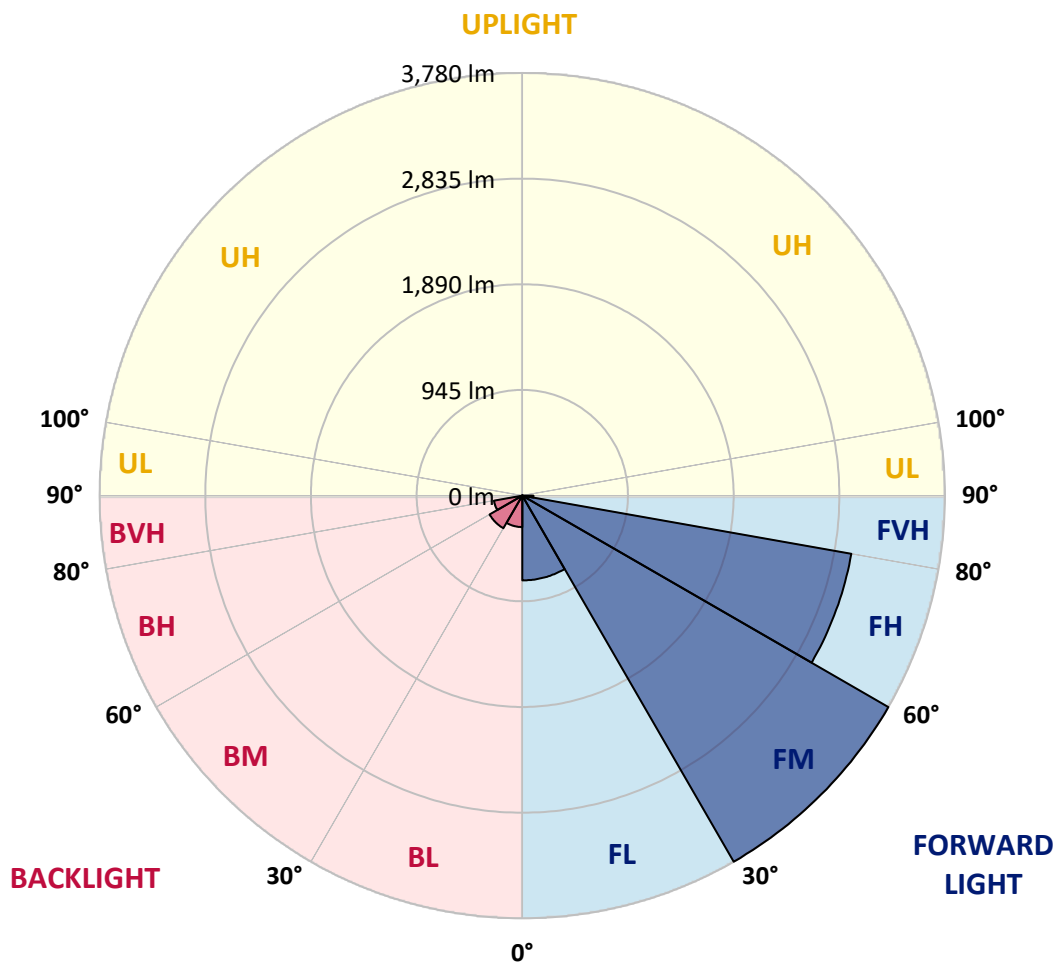
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	757.9	8.9			
FM (30°-60°)	3780.3	44.4			
FH (60°-80°)	2988.0	35.1			G2/5000
FVH (80°-90°)	100.2	1.2			G2/225
BL (0°-30°)	281.4	3.3	B1/500		
BM (30°-60°)	337.3	4.0	B1/1000		
BH (60°-80°)	257.6	3.0	B1/500		G1/500
BVH (80°-90°)	3.3	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°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2125.7	2128.0	2130.8	2134.9	2137.7	2129.1	2117.1	2103.3	2100.4	2071.1	2035.5
5°	2011.9	2015.4	2040.6	2054.4	2085.5	2113.6	2131.4	2133.7	2132.6	2105.0	2048.1
7.5°	1849.9	1859.7	1884.4	1908.5	1966.5	2020.0	2083.2	2127.4	2130.3	2122.8	2052.1
10°	1718.3	1724.7	1737.3	1785.0	1833.2	1914.8	2003.3	2086.6	2093.5	2123.4	2048.7
12.5°	1615.5	1624.7	1640.2	1677.0	1735.0	1812.0	1912.5	2024.6	2038.9	2112.5	2038.9
15°	1543.7	1548.3	1563.8	1600.0	1656.3	1727.5	1829.2	1959.6	1972.3	2098.1	2037.2
17.5°	1509.8	1515.0	1525.9	1554.6	1601.1	1667.2	1766.6	1907.4	1923.4	2088.9	2043.5
20°	1519.0	1523.6	1524.2	1539.1	1570.7	1626.4	1720.6	1858.5	1879.2	2083.2	2053.9
22.5°	1571.3	1571.8	1565.0	1558.1	1569.0	1609.2	1692.5	1827.5	1848.8	2082.0	2065.9
25°	1649.4	1651.1	1639.6	1615.5	1593.7	1614.4	1686.2	1807.4	1826.4	2079.1	2073.4
27.5°	1757.4	1756.8	1753.4	1713.2	1651.1	1637.3	1691.3	1796.5	1812.6	2071.1	2076.3
30°	1908.5	1903.9	1896.4	1851.1	1756.3	1693.1	1713.2	1789.6	1804.5	2059.6	2068.8
32.5°	2057.3	2074.5	2073.4	2030.3	1912.0	1792.5	1758.6	1798.8	1809.7	2052.1	2057.9
35°	2230.8	2230.2	2274.5	2258.4	2119.9	1919.4	1836.1	1829.2	1837.8	2057.3	2052.7
37.5°	2391.7	2406.6	2475.5	2492.2	2365.8	2098.7	1945.8	1894.7	1897.6	2092.3	2065.3
40°	2592.2	2620.9	2723.7	2779.5	2668.0	2364.7	2107.9	2014.8	2015.4	2178.5	2113.0
42.5°	2850.7	2896.1	2992.0	3085.1	3025.3	2679.5	2350.9	2204.9	2203.8	2330.2	2222.2
45°	3164.9	3196.5	3305.7	3453.3	3415.4	3119.0	2704.8	2499.7	2484.7	2579.0	2415.8
47.5°	3436.1	3479.2	3590.1	3758.4	3930.8	3655.6	3127.6	2904.7	2894.9	2974.8	2747.9
50°	3554.5	3592.4	3709.0	3945.1	4362.8	4359.9	3757.3	3495.9	3479.2	3522.3	3261.5
52.5°	3424.6	3460.2	3578.0	3872.2	4566.2	5218.2	4669.6	4237.5	4217.4	4162.3	3875.0
55°	2980.0	3009.3	3183.3	3521.1	4488.0	5790.4	5926.6	5153.9	5075.7	4861.5	4569.6
57.5°	2372.7	2357.8	2465.8	2858.2	4029.6	5982.3	7216.9	6295.4	6155.8	5465.8	5157.3
60°	1644.2	1690.2	1733.9	1992.4	3029.9	5649.7	8019.5	7730.5	7546.7	6060.5	5720.3
62.5°	1208.8	1239.2	1267.9	1387.4	1905.1	4511.0	8161.4	9204.7	9041.6	6691.8	6257.5
65°	956.0	958.3	969.8	1087.5	1255.3	2933.4	7479.5	10036.0	9994.1	7299.7	6475.2
66°	870.9	871.5	889.3	1015.7	1126.6	2388.8	6933.1	10099.2	10122.2	7445.6	6411.5
67.5°	761.2	758.9	784.8	912.9	1026.1	1722.4	5955.3	9843.0	9979.1	7557.6	6182.2
70°	590.0	587.1	618.7	765.8	945.1	1149.0	3958.3	8451.5	8671.0	7328.4	5469.9
72.5°	393.0	395.3	449.3	604.4	902.0	1011.7	2381.3	6429.3	6739.5	6051.8	4303.0
75°	229.2	233.2	294.7	449.3	783.1	964.6	1347.8	4584.5	4782.8	4178.9	2680.6
77.5°	120.1	121.8	164.9	296.4	600.4	895.7	898.0	2928.8	3021.9	2030.9	1061.1
80°	63.8	62.0	88.5	178.7	413.1	786.5	728.5	1550.6	1612.1	603.2	268.3
82.5°	24.1	26.4	47.1	117.2	244.2	564.7	627.4	685.4	664.1	132.7	112.6
85°	4.6	5.7	20.1	69.5	122.9	236.1	462.5	336.1	311.4	50.0	64.9
87.5°	0.6	1.1	5.7	16.7	17.8	79.9	136.7	93.1	80.4	18.4	27.0
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°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2018.2	2002.7	1951.0	1899.9	1847.6	1800.5	1768.3	1716.0	1702.8	1683.9	1673.0
5°	2014.2	1978.0	1878.6	1770.0	1668.9	1559.8	1476.5	1396.0	1353.0	1331.1	1323.1
7.5°	2002.7	1945.3	1790.2	1620.1	1458.1	1294.9	1153.0	1045.0	975.5	927.8	895.7
10°	1979.7	1900.5	1687.3	1453.5	1208.8	993.3	813.5	676.8	571.1	537.7	538.9
12.5°	1956.2	1850.5	1572.4	1268.5	965.2	693.4	502.7	394.7	344.1	327.5	324.0
15°	1934.4	1802.8	1459.8	1089.3	718.7	449.3	324.0	286.1	272.3	269.4	268.9
17.5°	1922.9	1758.6	1339.7	884.2	501.5	305.1	259.7	249.3	245.3	242.4	241.3
20°	1913.1	1720.1	1224.8	692.3	343.0	249.9	232.7	222.9	216.0	213.1	211.4
22.5°	1906.2	1680.4	1105.9	536.0	262.5	221.8	206.2	193.6	183.8	180.4	178.1
25°	1895.9	1636.8	985.9	391.8	221.2	197.1	179.2	164.3	151.7	145.3	144.2
27.5°	1880.9	1587.4	854.3	290.1	197.6	175.2	153.4	135.0	122.4	115.5	116.0
30°	1856.8	1535.7	722.7	230.4	178.7	152.8	129.3	111.5	99.4	94.2	93.6
32.5°	1828.1	1473.0	602.1	197.6	161.4	132.7	108.0	92.5	83.3	79.3	78.7
35°	1801.1	1409.8	479.1	177.5	143.6	114.3	90.8	77.6	70.7	67.2	67.8
37.5°	1786.1	1353.5	373.4	161.4	129.3	98.2	78.1	66.6	60.3	57.5	56.9
40°	1795.9	1307.6	297.0	147.1	113.2	84.5	67.2	57.5	51.1	47.1	47.1
42.5°	1841.9	1287.5	239.6	133.3	98.2	73.0	58.6	49.4	42.5	38.5	39.1
45°	1982.0	1308.7	200.5	120.6	84.5	63.2	50.6	40.8	34.5	31.6	31.0
47.5°	2214.7	1388.6	173.5	107.4	72.4	54.0	42.5	33.9	27.6	25.3	24.7
50°	2621.5	1553.5	153.4	94.2	61.5	46.0	35.0	27.0	21.8	19.5	19.5
52.5°	3181.0	1913.1	139.0	79.3	51.7	39.1	28.7	21.8	17.2	15.5	14.9
55°	3765.9	2292.3	131.6	66.6	43.1	32.2	23.0	17.2	13.2	11.5	10.9
57.5°	4328.3	2589.9	122.9	54.0	34.5	24.7	17.8	13.2	9.2	8.0	7.5
60°	4867.8	2830.6	104.6	43.1	27.0	17.8	13.2	9.2	6.3	5.2	5.2
62.5°	5350.4	2970.8	82.2	34.5	20.7	12.6	8.6	6.9	4.6	3.4	3.4
65°	5406.7	2788.6	62.0	26.4	14.9	8.0	5.2	5.2	3.4	2.3	2.3
66°	5293.5	2634.1	54.6	24.1	13.2	6.9	4.6	4.0	2.9	1.7	1.7
67.5°	5040.7	2370.4	47.1	20.7	10.9	5.2	3.4	3.4	2.3	1.1	1.1
70°	4355.3	1936.1	37.3	15.5	8.0	4.0	2.3	2.3	1.7	1.1	1.1
72.5°	3319.5	1445.5	30.4	11.5	5.7	2.9	1.7	1.7	1.7	1.1	1.1
75°	2002.1	778.5	23.6	8.6	5.2	2.3	1.1	1.7	2.3	1.7	1.1
77.5°	737.7	264.8	18.4	6.9	4.0	2.3	1.1	1.1	2.3	1.7	1.7
80°	181.0	68.9	13.2	5.7	4.0	2.3	1.1	1.1	2.3	2.3	2.3
82.5°	83.9	29.3	9.2	5.2	4.0	2.3	1.1	1.1	1.7	2.3	2.3
85°	48.3	13.8	7.5	5.7	4.0	2.3	1.1	1.1	1.7	2.3	2.3
87.5°	19.5	6.9	6.9	5.7	4.6	2.9	1.1	1.1	1.1	1.7	1.7
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)