

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: P200154

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL4-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13246.2 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

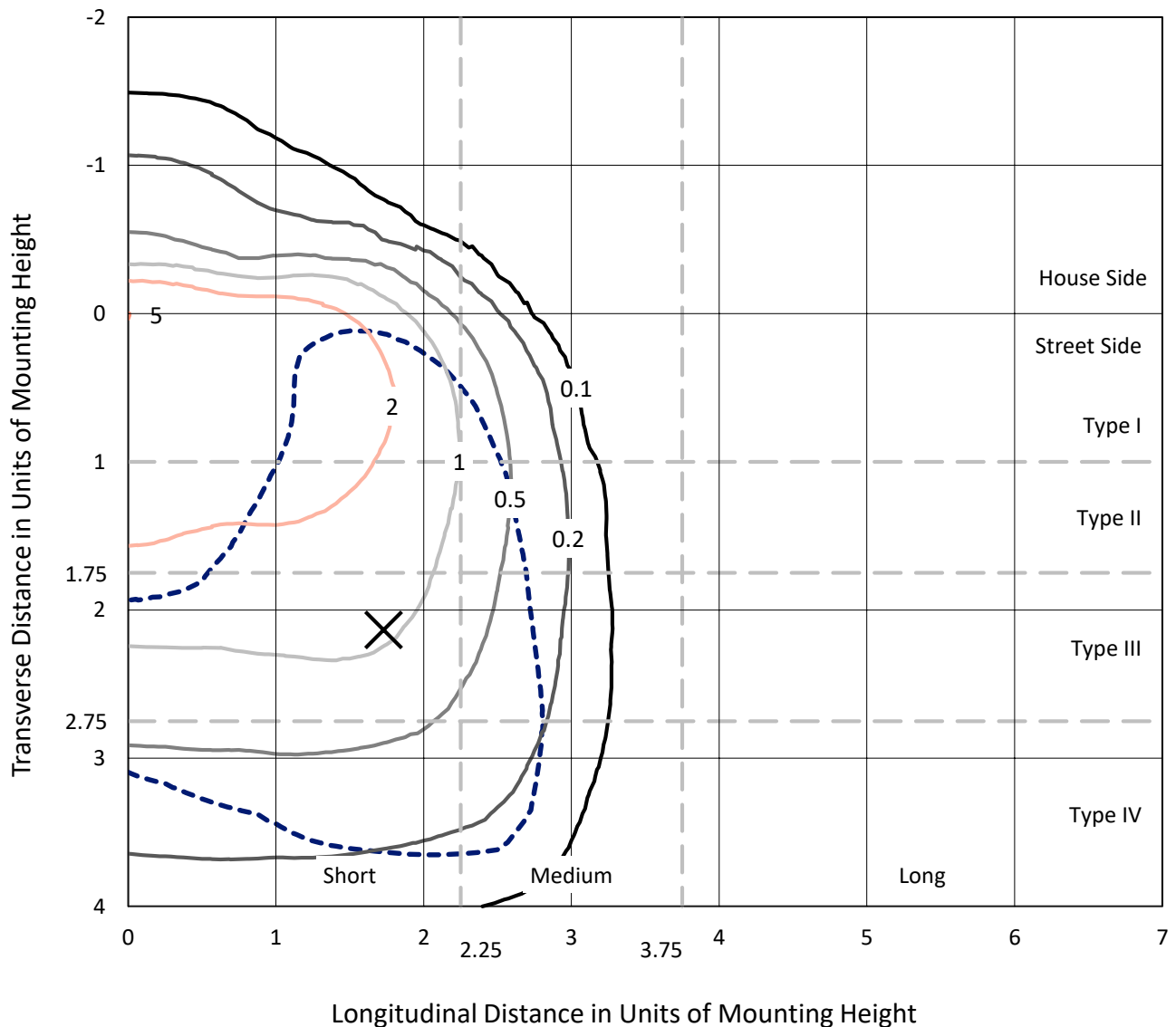
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

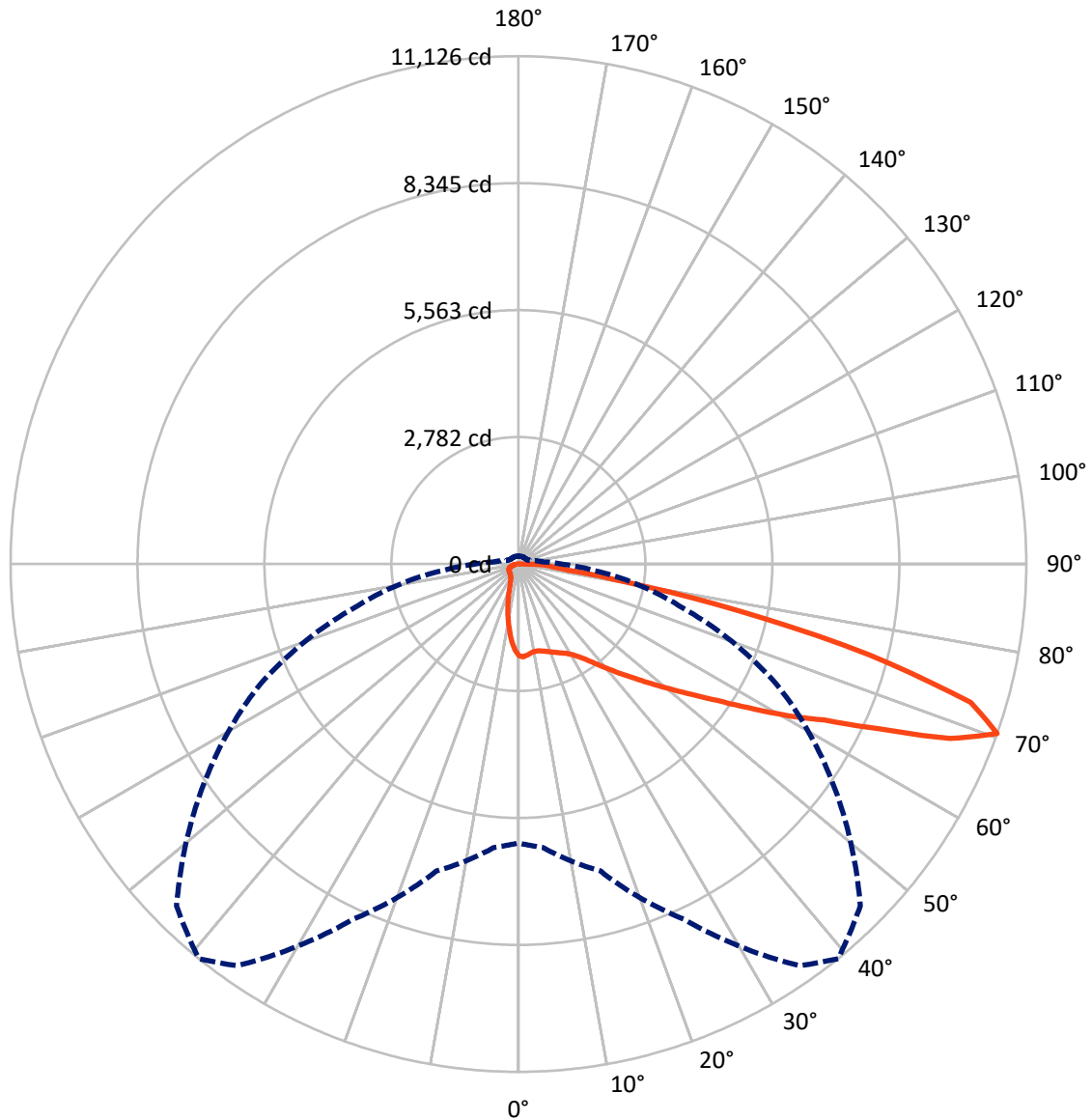
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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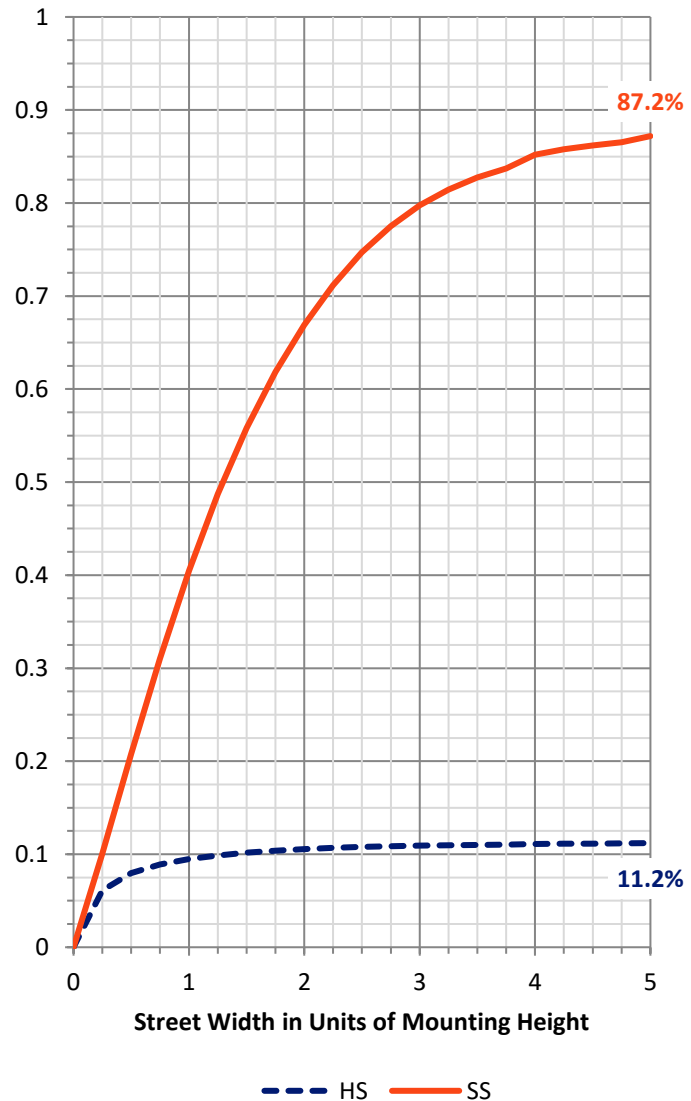
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1506.5	0.0	1506.5
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	11739.6	0.0	11739.6
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	13246.2	0.0	13246.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.6	1.3
10°-20°	431.4	3.3
20°-30°	671.7	5.1
30°-40°	1046.4	7.9
40°-50°	1756.6	13.3
50°-60°	2790.6	21.1
60°-70°	3722.3	28.1
70°-80°	2247.8	17.0
80°-90°	406.8	3.1
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°	13246.2	100.0
0°-180°	13246.2	100.0



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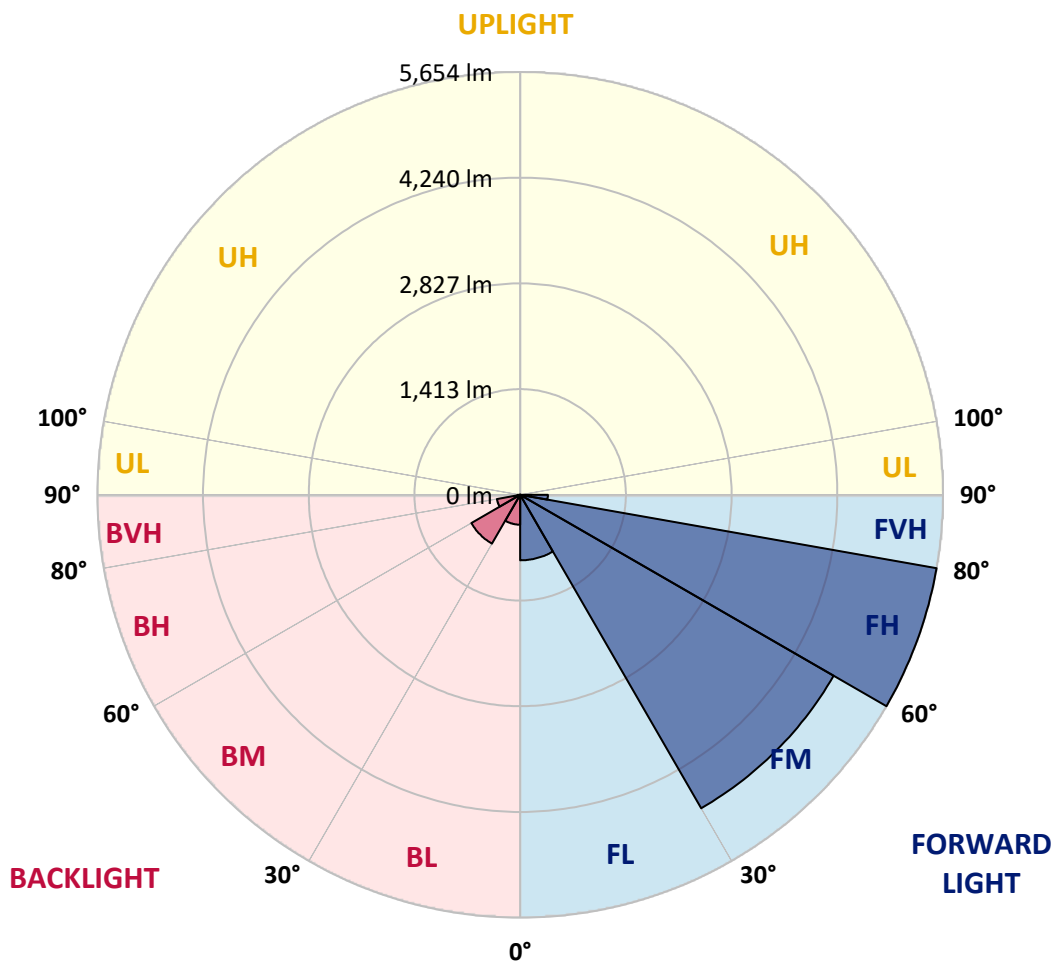
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	876.0	6.6			
FM	(30°-60°)	4839.6	36.5			
FH	(60°-80°)	5653.9	42.7			G3/7500
FVH	(80°-90°)	370.2	2.8			G3/500
BL	(0°-30°)	399.7	3.0	B1/500		
BM	(30°-60°)	753.9	5.7	B1/1000		
BH	(60°-80°)	316.3	2.4	B1/500		G1/500
BVH	(80°-90°)	36.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0
2.5°	2050.0	2049.4	2044.0	2040.0	2036.6	2035.3	2037.9	2027.8	2019.1	2008.3	1996.8
5°	2034.5	2033.8	2025.1	2017.1	2009.0	2006.3	2005.6	1987.4	1976.6	1960.5	1938.9
7.5°	2017.7	2014.4	2002.9	1989.4	1975.3	1968.6	1961.8	1938.3	1926.1	1910.0	1885.0
10°	2000.2	1996.2	1985.3	1971.9	1958.4	1948.3	1936.9	1914.0	1901.2	1889.1	1860.1
12.5°	1982.0	1978.7	1975.9	1969.9	1960.5	1951.7	1943.0	1923.5	1910.0	1895.8	1862.2
15°	1979.3	1978.0	1984.0	1988.1	1982.7	1977.3	1967.9	1951.1	1936.9	1922.7	1879.0
17.5°	2000.9	2000.2	2015.7	2026.5	2023.8	2014.4	2001.5	1982.7	1971.2	1959.2	1904.5
20°	2048.0	2051.4	2070.2	2084.4	2071.0	2057.5	2036.6	2010.3	2004.3	1998.8	1930.8
22.5°	2136.9	2140.3	2153.7	2159.1	2124.2	2104.6	2075.7	2041.9	2037.9	2041.9	1962.5
25°	2275.7	2272.3	2270.2	2250.1	2186.0	2155.8	2118.7	2083.8	2085.7	2103.9	2006.9
27.5°	2459.5	2441.4	2413.0	2352.4	2250.7	2217.0	2171.9	2139.6	2152.4	2187.4	2073.6
30°	2650.1	2629.9	2564.5	2465.6	2335.6	2298.6	2248.0	2211.6	2245.4	2300.6	2162.5
32.5°	2826.5	2823.9	2728.2	2601.0	2452.7	2420.4	2370.0	2328.8	2383.4	2467.6	2295.8
35°	3019.1	3025.2	2910.7	2757.9	2611.1	2577.3	2541.0	2510.0	2582.7	2698.5	2489.1
37.5°	3225.3	3237.3	3102.0	2929.6	2791.5	2777.4	2755.8	2742.3	2854.9	3015.1	2759.2
40°	3500.6	3488.6	3300.7	3123.6	3013.1	3012.4	3005.7	3021.9	3209.1	3428.6	3106.1
42.5°	3795.7	3760.0	3511.5	3331.6	3256.3	3279.1	3292.6	3358.6	3635.4	3931.0	3529.0
45°	4113.6	4033.4	3730.3	3551.9	3526.3	3574.8	3620.5	3764.0	4137.1	4502.8	3992.4
47.5°	4367.5	4289.9	3956.7	3782.9	3838.7	3912.2	4000.5	4227.3	4698.8	5093.5	4449.6
50°	4567.5	4516.9	4184.9	4052.2	4182.9	4296.1	4440.2	4752.0	5283.3	5668.6	4873.2
52.5°	4761.4	4723.7	4415.3	4328.4	4587.0	4743.2	4939.2	5315.0	5882.8	6234.3	5229.5
55°	4936.6	4909.6	4663.1	4672.5	5062.5	5265.8	5512.4	5956.1	6536.0	6738.7	5531.2
57.5°	5133.9	5099.5	4946.0	5104.2	5673.3	5937.3	6257.9	6676.8	7148.9	7187.3	5760.8
60°	5332.5	5302.9	5259.8	5602.6	6449.1	6726.6	7030.3	7375.2	7770.4	7535.5	5747.3
62.5°	5504.9	5508.3	5584.4	6125.8	7208.8	7530.0	7900.5	8241.2	8332.9	7596.0	5322.4
65°	5797.3	5850.5	6077.4	6866.7	8278.2	8708.0	9162.6	9107.9	8488.4	7029.6	4411.2
67.5°	6144.8	6238.4	6698.3	7854.0	9630.0	10200.4	10376.1	9303.9	7865.5	5714.4	3144.4
70°	6109.7	6238.4	6966.4	8590.1	10743.8	11126.3	10593.0	8420.4	6245.7	3733.1	1670.2
72.5°	5425.4	5609.4	6420.1	8252.7	10393.0	10359.3	9196.2	6277.4	3710.9	1499.1	652.5
75°	4135.1	4320.9	5018.7	6519.9	8214.3	7931.4	6525.2	3467.7	1408.2	595.4	411.5
77.5°	2378.7	2522.8	3061.6	3998.4	5211.3	4921.0	3632.0	1542.2	685.6	414.8	321.2
80°	1328.1	1408.2	1735.5	2028.5	2553.8	2341.0	1625.1	958.3	511.9	301.1	247.9
82.5°	1050.0	1121.4	1403.5	1279.6	1166.5	1076.2	933.4	853.2	408.8	190.0	148.1
85°	917.3	985.3	1188.0	1007.5	796.7	730.7	758.3	839.8	317.8	114.5	126.6
87.5°	849.9	940.8	1058.7	776.5	620.2	549.5	699.7	920.7	102.4	71.4	51.1
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°	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0
2.5°	1986.8	1975.9	1958.4	1943.0	1918.7	1906.0	1891.7	1881.7	1873.6	1866.9	1877.6
5°	1925.4	1905.2	1868.2	1828.4	1781.4	1744.2	1713.3	1684.4	1664.1	1650.6	1660.1
7.5°	1867.5	1834.6	1776.7	1704.5	1623.7	1555.1	1498.4	1448.6	1414.3	1392.0	1400.8
10°	1834.6	1793.4	1703.8	1590.7	1471.5	1364.4	1275.5	1198.8	1145.6	1115.2	1120.0
12.5°	1826.5	1773.3	1649.3	1493.7	1330.8	1181.9	1056.7	950.2	875.5	836.5	837.8
15°	1832.5	1764.5	1598.2	1400.8	1194.7	1006.8	850.6	721.3	634.4	589.9	589.3
17.5°	1842.6	1757.7	1544.2	1300.5	1056.7	838.5	664.0	537.5	460.6	424.9	422.3
20°	1853.4	1747.0	1483.7	1192.0	913.2	682.2	520.0	420.9	372.5	352.9	351.6
22.5°	1868.8	1737.6	1421.0	1077.6	772.4	555.6	427.7	361.0	335.4	325.3	324.0
25°	1893.8	1732.9	1354.4	958.3	645.9	464.7	372.5	331.3	316.5	309.7	309.1
27.5°	1935.5	1739.5	1291.7	842.5	542.8	403.5	341.5	316.5	305.8	299.7	299.0
30°	1989.4	1760.4	1225.7	732.7	462.7	361.6	322.6	306.5	297.7	291.6	291.6
32.5°	2079.0	1795.5	1156.3	637.8	405.4	332.7	308.4	297.7	290.3	285.5	284.9
35°	2211.0	1861.5	1091.7	558.9	364.4	311.8	296.3	288.3	282.8	280.2	280.2
37.5°	2402.9	1965.8	1034.4	502.4	339.4	297.7	284.9	278.9	275.5	275.5	275.5
40°	2660.9	2109.9	988.0	464.7	325.3	287.6	276.1	271.4	269.3	270.1	270.1
42.5°	2979.4	2297.2	957.0	438.4	318.5	281.5	270.1	266.1	264.0	263.3	264.0
45°	3342.4	2510.0	953.6	418.9	311.8	277.4	266.1	262.0	258.0	255.2	255.2
47.5°	3695.3	2726.2	981.2	412.1	304.4	272.7	262.7	258.6	252.6	246.5	246.5
50°	4007.1	2910.1	1018.2	414.8	301.7	266.1	257.3	255.2	245.8	239.1	238.4
52.5°	4255.0	3051.5	1048.6	422.9	304.4	261.3	250.5	251.2	241.1	233.7	233.0
55°	4453.6	3144.4	1040.5	431.0	310.5	258.6	244.5	245.8	237.7	230.4	230.4
57.5°	4540.6	3110.1	950.9	424.3	315.2	259.3	239.8	245.1	238.4	231.7	231.7
60°	4354.0	2805.0	783.3	394.7	309.1	257.3	237.7	247.9	247.1	240.4	239.8
62.5°	3789.6	2258.8	607.4	350.9	288.3	247.1	232.3	247.1	254.6	252.6	251.9
65°	2920.8	1608.9	464.0	303.7	259.9	230.4	218.2	231.7	241.8	244.5	243.8
67.5°	1895.8	985.9	357.6	259.3	228.3	210.8	200.0	206.1	208.1	208.1	206.7
70°	932.1	530.7	284.9	218.2	196.0	190.0	183.8	180.4	177.1	174.4	174.4
72.5°	460.0	346.9	234.4	184.5	169.0	166.3	165.0	160.9	158.3	154.9	153.5
75°	340.1	282.2	199.4	155.6	145.5	142.8	145.5	142.1	141.5	138.7	137.4
77.5°	279.5	240.4	171.8	133.4	124.6	119.9	123.9	124.6	125.3	121.2	119.9
80°	227.0	203.4	143.4	110.5	102.4	99.0	101.7	107.1	108.4	102.4	99.6
82.5°	163.7	166.3	115.8	86.2	79.5	76.8	82.1	88.9	90.2	81.5	79.5
85°	137.4	138.7	88.9	61.3	54.5	50.5	59.2	66.0	70.7	62.0	59.9
87.5°	57.3	81.5	51.1	34.4	30.3	26.3	31.6	35.0	42.5	39.1	38.4
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)