

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: P458693

Luminaire Tested: **GALN-SA2C-735-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458693  
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-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 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: 10779 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

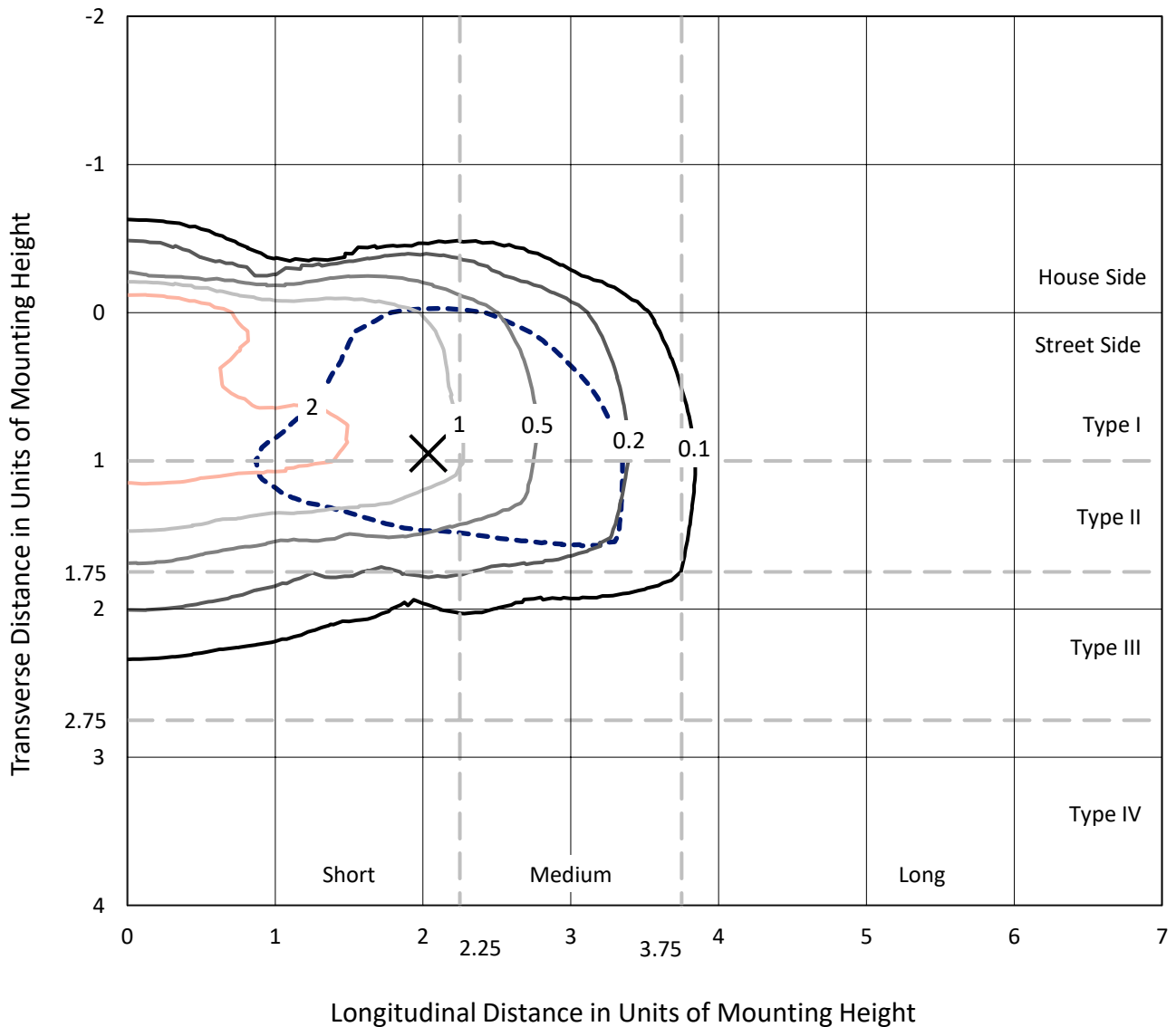
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

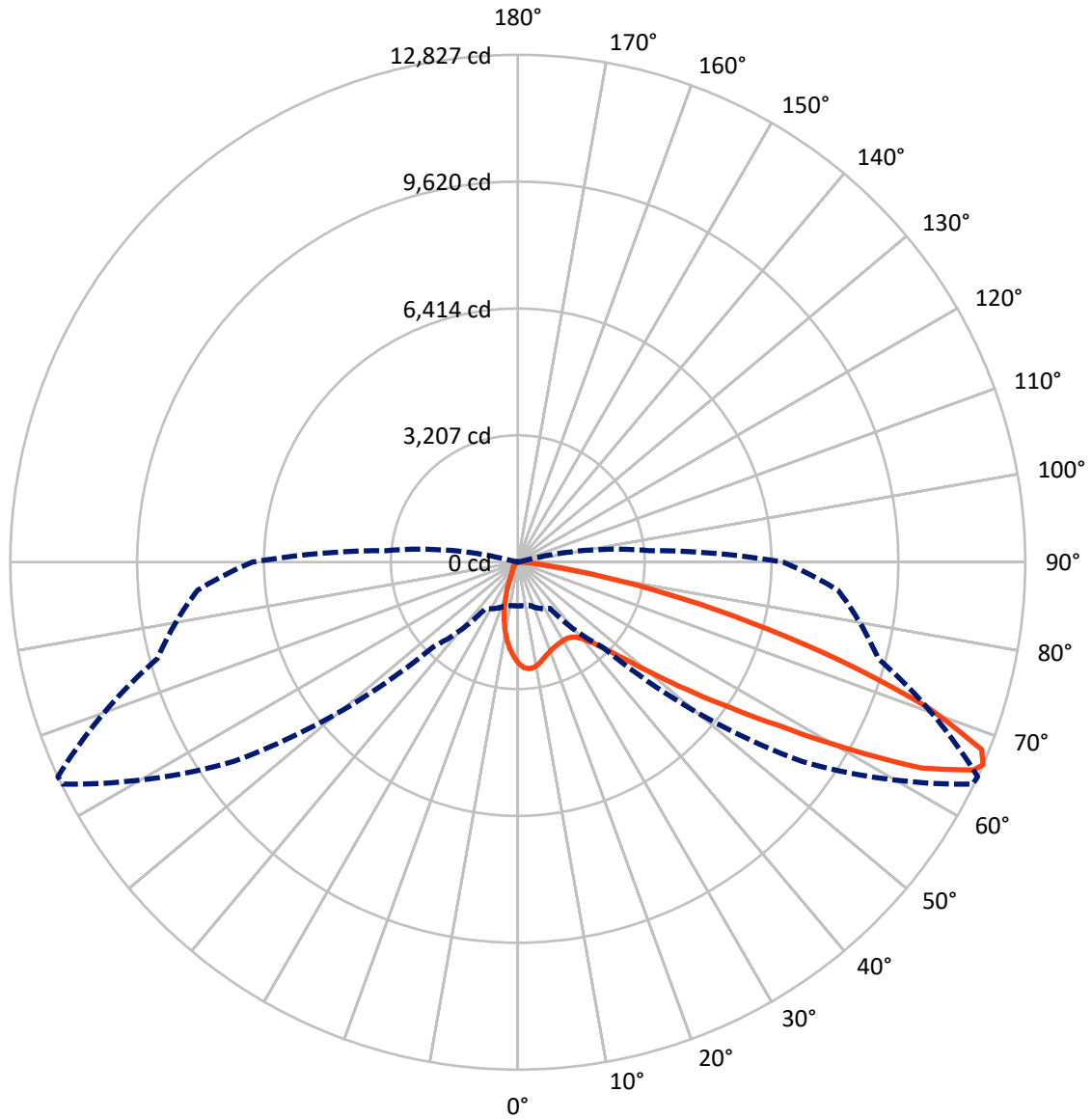
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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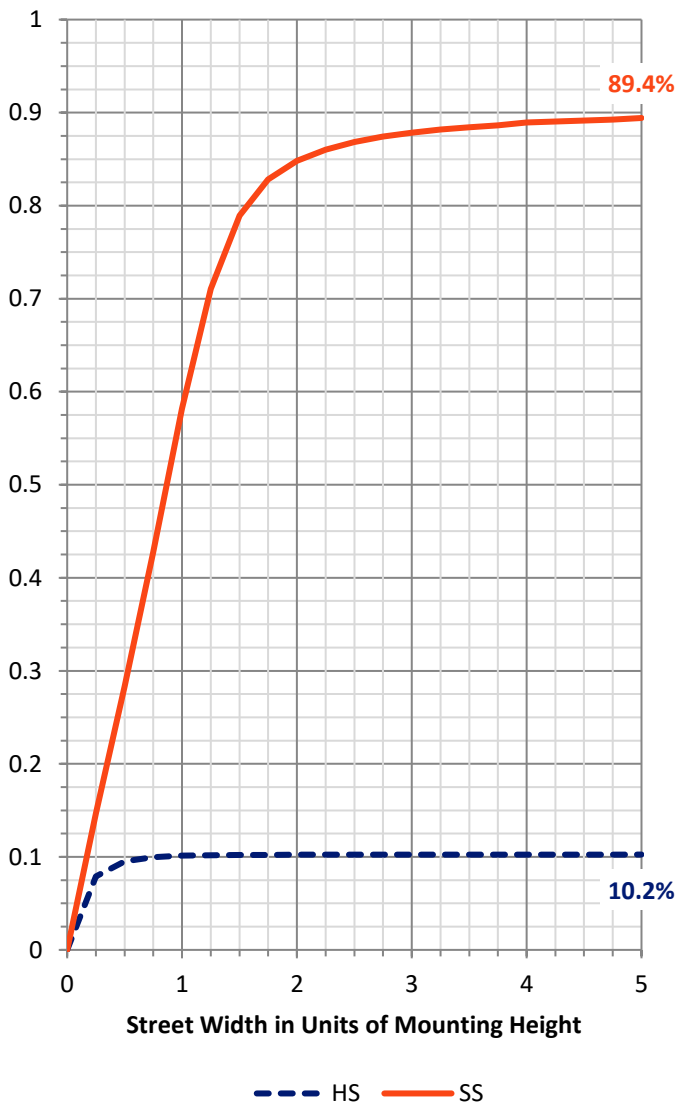
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1114.7	0.0	1114.7
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	9664.3	0.0	9664.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	10779.0	0.0	10779.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.0	1.9
10°-20°	455.5	4.2
20°-30°	652.5	6.1
30°-40°	953.0	8.8
40°-50°	1598.0	14.8
50°-60°	2666.9	24.7
60°-70°	2830.8	26.3
70°-80°	1282.1	11.9
80°-90°	131.2	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°	10779.0	100.0
0°-180°	10779.0	100.0



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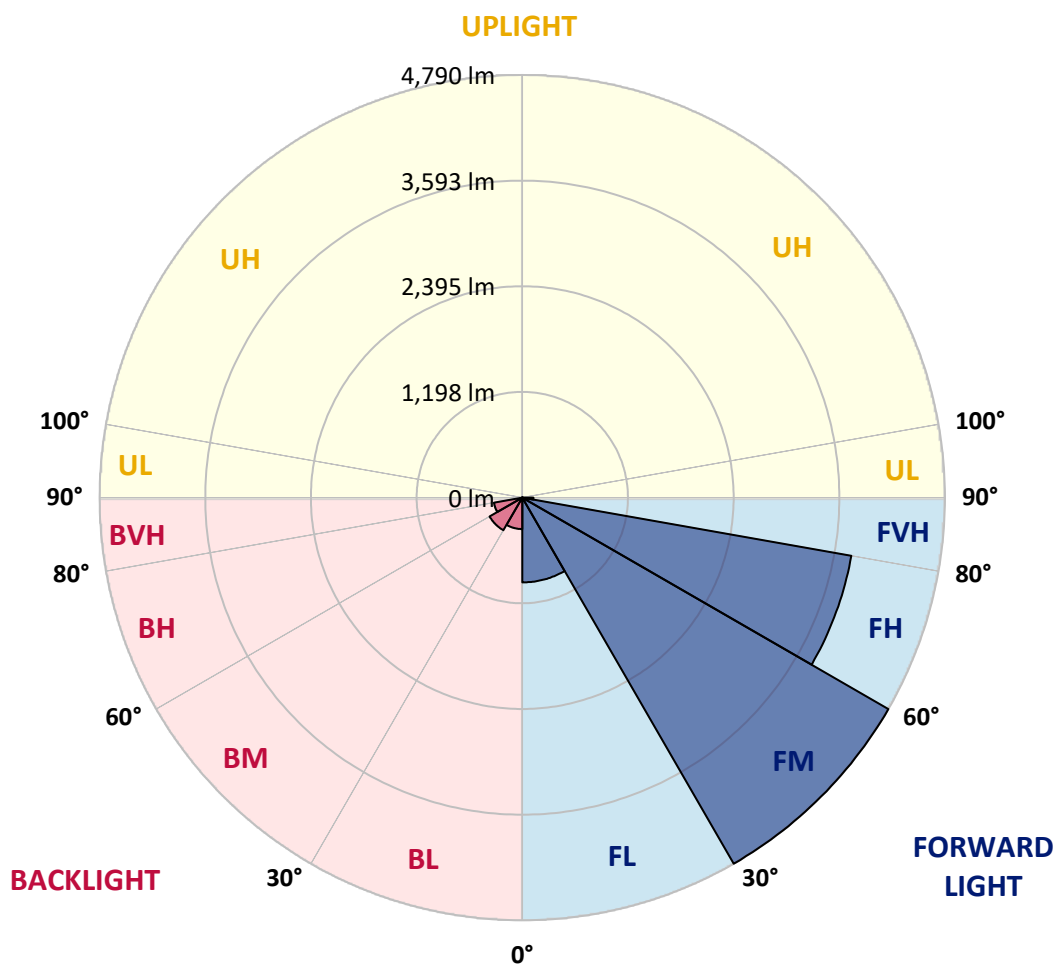
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.4	8.9			
FM (30°-60°)	4790.4	44.4			
FH (60°-80°)	3786.4	35.1			G2/5000
FVH (80°-90°)	127.0	1.2			G2/225
BL (0°-30°)	356.6	3.3	B1/500		
BM (30°-60°)	427.5	4.0	B1/1000		
BH (60°-80°)	326.4	3.0	B1/500		G1/500
BVH (80°-90°)	4.2	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°	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1
2.5°	2693.7	2696.6	2700.2	2705.3	2709.0	2698.1	2682.8	2665.3	2661.7	2624.5	2579.4
5°	2549.5	2553.9	2585.9	2603.4	2642.7	2678.4	2701.0	2703.9	2702.4	2667.5	2595.4
7.5°	2344.2	2356.6	2387.9	2418.5	2492.0	2559.7	2639.8	2695.9	2699.5	2690.1	2600.5
10°	2177.5	2185.5	2201.5	2262.0	2323.1	2426.5	2538.6	2644.2	2652.9	2690.8	2596.1
12.5°	2047.2	2058.9	2078.5	2125.1	2198.6	2296.2	2423.6	2565.6	2583.8	2677.0	2583.8
15°	1956.2	1962.0	1981.7	2027.6	2098.9	2189.2	2318.0	2483.3	2499.3	2658.8	2581.6
17.5°	1913.3	1919.8	1933.6	1970.0	2029.0	2112.7	2238.7	2417.0	2437.4	2647.1	2589.6
20°	1924.9	1930.7	1931.5	1950.4	1990.4	2061.0	2180.4	2355.2	2381.4	2639.8	2602.7
22.5°	1991.2	1991.9	1983.1	1974.4	1988.2	2039.2	2144.8	2315.8	2342.8	2638.4	2618.0
25°	2090.2	2092.3	2077.8	2047.2	2019.5	2045.8	2136.8	2290.4	2314.4	2634.7	2627.4
27.5°	2227.0	2226.3	2221.9	2171.0	2092.3	2074.9	2143.3	2276.5	2296.9	2624.5	2631.1
30°	2418.5	2412.7	2403.2	2345.7	2225.6	2145.5	2171.0	2267.8	2286.7	2610.0	2621.6
32.5°	2607.1	2628.9	2627.4	2572.8	2422.9	2271.4	2228.5	2279.4	2293.3	2600.5	2607.8
35°	2826.9	2826.2	2882.3	2861.9	2686.4	2432.3	2326.8	2318.0	2329.0	2607.1	2601.2
37.5°	3030.8	3049.7	3137.1	3158.2	2998.0	2659.5	2465.8	2401.0	2404.7	2651.5	2617.3
40°	3284.9	3321.3	3451.6	3522.2	3381.0	2996.6	2671.1	2553.2	2553.9	2760.7	2677.7
42.5°	3612.5	3670.0	3791.6	3909.5	3833.8	3395.5	2979.1	2794.2	2792.7	2952.9	2816.0
45°	4010.7	4050.7	4189.1	4376.2	4328.1	3952.5	3427.5	3167.6	3148.7	3268.1	3061.3
47.5°	4354.3	4408.9	4549.4	4762.7	4981.2	4632.4	3963.4	3680.9	3668.5	3769.7	3482.1
50°	4504.3	4552.3	4700.1	4999.4	5528.6	5525.0	4761.3	4430.0	4408.9	4463.5	4133.0
52.5°	4339.8	4384.9	4534.1	4906.9	5786.3	6612.7	5917.4	5369.9	5344.4	5274.5	4910.5
55°	3776.3	3813.4	4034.0	4462.1	5687.3	7337.8	7510.3	6531.1	6432.1	6160.6	5790.7
57.5°	3006.7	2987.8	3124.7	3621.9	5106.4	7580.9	9145.5	7977.7	7800.8	6926.4	6535.5
60°	2083.6	2141.9	2197.2	2524.8	3839.6	7159.4	10162.5	9796.3	9563.3	7679.9	7249.0
62.5°	1531.8	1570.4	1606.8	1758.2	2414.1	5716.5	10342.3	11664.4	11457.7	8480.0	7929.7
65°	1211.4	1214.3	1228.9	1378.2	1590.7	3717.3	9478.2	12717.9	12664.7	9250.3	8205.6
66°	1103.7	1104.4	1127.0	1287.1	1427.7	3027.1	8785.8	12798.0	12827.1	9435.2	8124.8
67.5°	964.6	961.7	994.5	1156.8	1300.3	2182.6	7546.7	12473.3	12645.8	9577.2	7834.3
70°	747.7	744.0	784.1	970.5	1197.6	1456.1	5016.1	10710.0	10988.1	9286.7	6931.5
72.5°	498.0	500.9	569.3	765.9	1143.0	1282.1	3017.7	8147.3	8540.5	7669.0	5452.9
75°	290.5	295.6	373.5	569.3	992.3	1222.4	1707.9	5809.6	6060.8	5295.7	3397.0
77.5°	152.2	154.3	208.9	375.7	760.8	1135.0	1137.9	3711.5	3829.4	2573.6	1344.7
80°	80.8	78.6	112.1	226.4	523.5	996.7	923.1	1964.9	2042.8	764.4	340.0
82.5°	30.6	33.5	59.7	148.5	309.4	715.6	795.0	868.5	841.6	168.2	142.7
85°	5.8	7.3	25.5	88.1	155.8	299.2	586.1	425.9	394.6	63.3	82.3
87.5°	0.7	1.5	7.3	21.1	22.6	101.2	173.3	117.9	101.9	23.3	34.2
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°	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1	2556.1
2.5°	2557.6	2537.9	2472.4	2407.6	2341.3	2281.6	2240.9	2174.6	2157.9	2133.8	2120.0
5°	2552.5	2506.6	2380.6	2243.0	2114.9	1976.6	1871.0	1769.1	1714.5	1686.8	1676.6
7.5°	2537.9	2465.1	2268.5	2053.0	1847.7	1641.0	1461.1	1324.3	1236.2	1175.8	1135.0
10°	2508.8	2408.3	2138.2	1841.9	1531.8	1258.8	1030.9	857.6	723.7	681.4	682.9
12.5°	2478.9	2345.0	1992.6	1607.5	1223.1	878.7	637.0	500.2	436.1	415.0	410.6
15°	2451.3	2284.5	1849.9	1380.3	910.8	569.3	410.6	362.6	345.1	341.4	340.7
17.5°	2436.7	2228.5	1697.8	1120.4	635.6	386.6	329.1	316.0	310.9	307.2	305.8
20°	2424.3	2179.7	1552.2	877.3	434.6	316.7	294.9	282.5	273.7	270.1	267.9
22.5°	2415.6	2129.5	1401.4	679.2	332.7	281.0	261.4	245.3	233.0	228.6	225.7
25°	2402.5	2074.1	1249.3	496.5	280.3	249.7	227.1	208.2	192.2	184.2	182.7
27.5°	2383.6	2011.5	1082.6	367.7	250.4	222.0	194.4	171.1	155.1	146.3	147.1
30°	2353.0	1946.0	915.9	291.9	226.4	193.7	163.8	141.2	125.9	119.4	118.7
32.5°	2316.6	1866.7	763.0	250.4	204.6	168.2	136.9	117.2	105.6	100.5	99.7
35°	2282.4	1786.6	607.2	225.0	182.0	144.9	115.0	98.3	89.5	85.2	85.9
37.5°	2263.4	1715.2	473.2	204.6	163.8	124.5	99.0	84.5	76.4	72.8	72.1
40°	2275.8	1657.0	376.4	186.4	143.4	107.0	85.2	72.8	64.8	59.7	59.7
42.5°	2334.1	1631.5	303.6	168.9	124.5	92.5	74.3	62.6	53.9	48.8	49.5
45°	2511.7	1658.4	254.1	152.9	107.0	80.1	64.1	51.7	43.7	40.0	39.3
47.5°	2806.5	1759.6	219.9	136.1	91.7	68.4	53.9	43.0	34.9	32.0	31.3
50°	3322.0	1968.6	194.4	119.4	77.9	58.2	44.4	34.2	27.7	24.8	24.8
52.5°	4031.1	2424.3	176.2	100.5	65.5	49.5	36.4	27.7	21.8	19.7	18.9
55°	4772.2	2904.8	166.7	84.5	54.6	40.8	29.1	21.8	16.7	14.6	13.8
57.5°	5484.9	3281.9	155.8	68.4	43.7	31.3	22.6	16.7	11.6	10.2	9.5
60°	6168.6	3587.0	132.5	54.6	34.2	22.6	16.7	11.6	8.0	6.6	6.6
62.5°	6780.1	3764.6	104.1	43.7	26.2	16.0	10.9	8.7	5.8	4.4	4.4
65°	6851.5	3533.8	78.6	33.5	18.9	10.2	6.6	6.6	4.4	2.9	2.9
66°	6708.0	3338.0	69.2	30.6	16.7	8.7	5.8	5.1	3.6	2.2	2.2
67.5°	6387.7	3003.8	59.7	26.2	13.8	6.6	4.4	4.4	2.9	1.5	1.5
70°	5519.2	2453.4	47.3	19.7	10.2	5.1	2.9	2.9	2.2	1.5	1.5
72.5°	4206.5	1831.7	38.6	14.6	7.3	3.6	2.2	2.2	2.2	1.5	1.5
75°	2537.2	986.5	29.8	10.9	6.6	2.9	1.5	2.2	2.9	2.2	1.5
77.5°	934.8	335.6	23.3	8.7	5.1	2.9	1.5	1.5	2.9	2.2	2.2
80°	229.3	87.4	16.7	7.3	5.1	2.9	1.5	1.5	2.9	2.9	2.9
82.5°	106.3	37.1	11.6	6.6	5.1	2.9	1.5	1.5	2.2	2.9	2.9
85°	61.2	17.5	9.5	7.3	5.1	2.9	1.5	1.5	2.2	2.9	2.9
87.5°	24.8	8.7	8.7	7.3	5.8	3.6	1.5	1.5	1.5	2.2	2.2
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)