

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: P383317

Luminaire Tested: **GLEON-SA6B-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383317  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6B-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33170.5 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

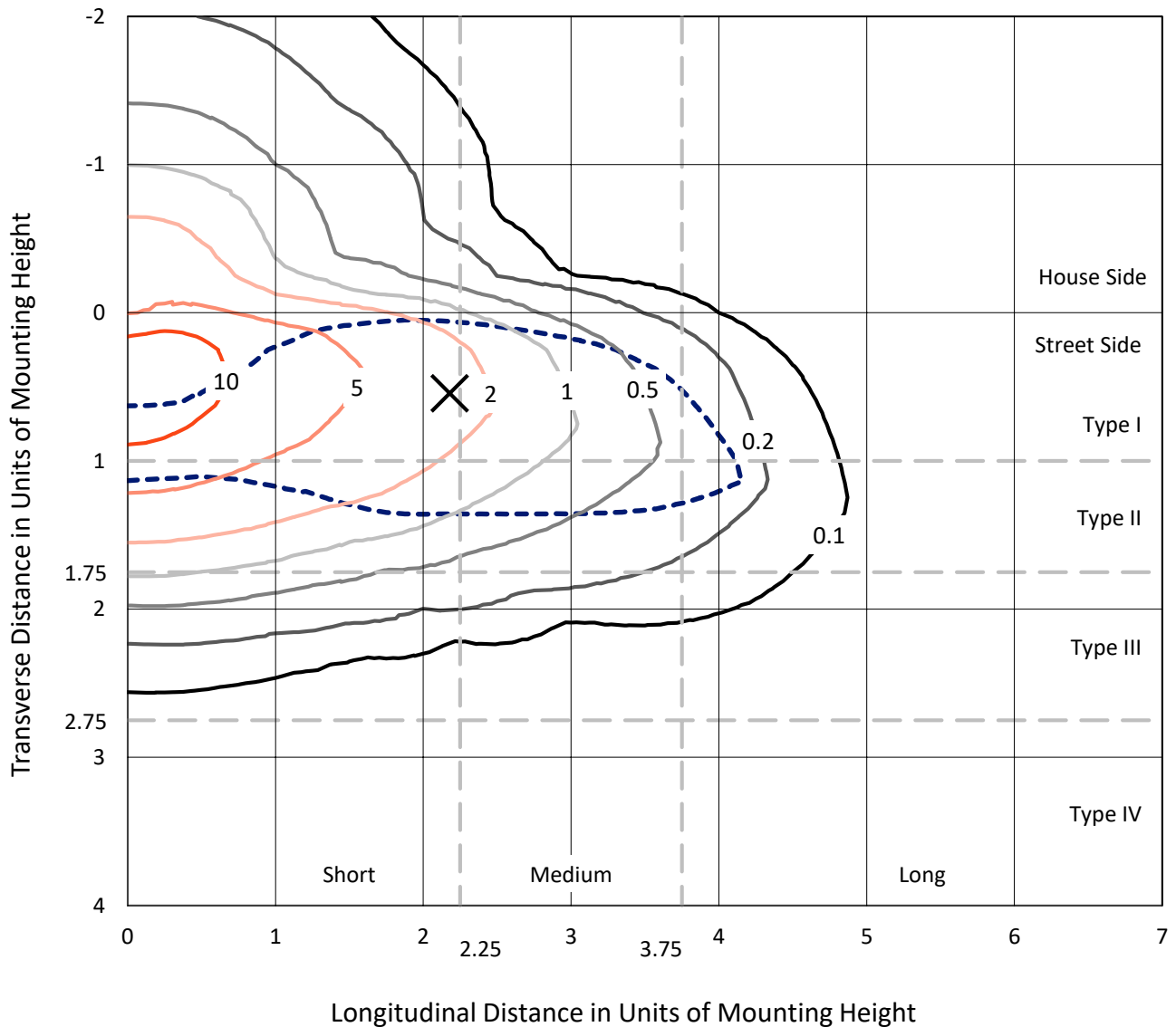
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

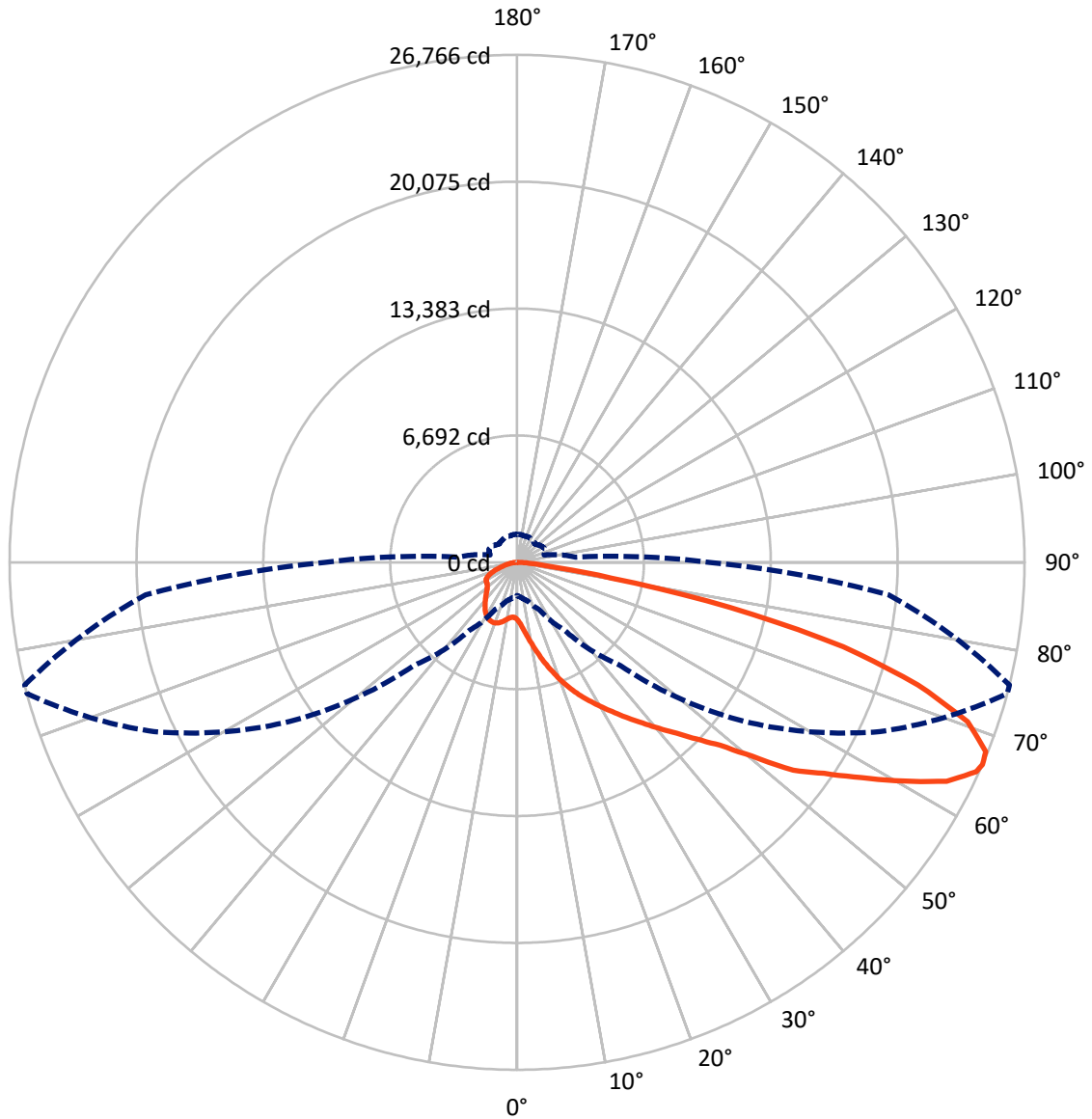
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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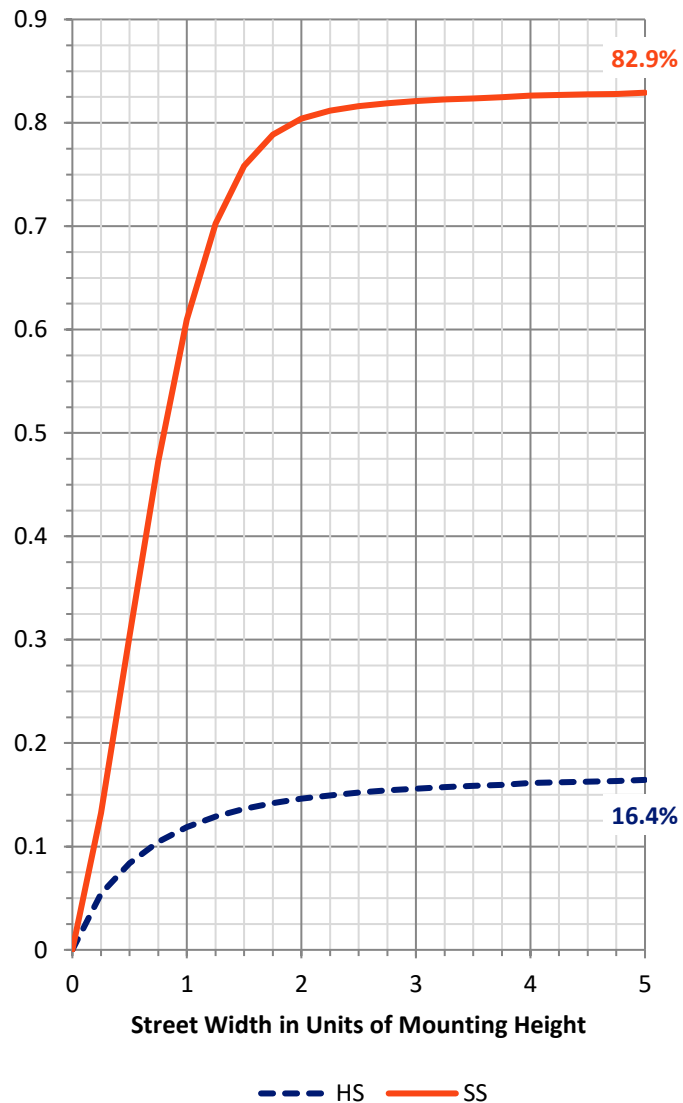
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5581.5	0.0	5581.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	27589.1	0.0	27589.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	33170.5	0.0	33170.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.3	1.1
10°-20°	1446.6	4.4
20°-30°	2811.0	8.5
30°-40°	4588.2	13.8
40°-50°	6268.6	18.9
50°-60°	7301.6	22.0
60°-70°	6546.0	19.7
70°-80°	3308.1	10.0
80°-90°	534.2	1.6
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°	33170.5	100.0
0°-180°	33170.5	100.0

**Coefficient of Utilization**



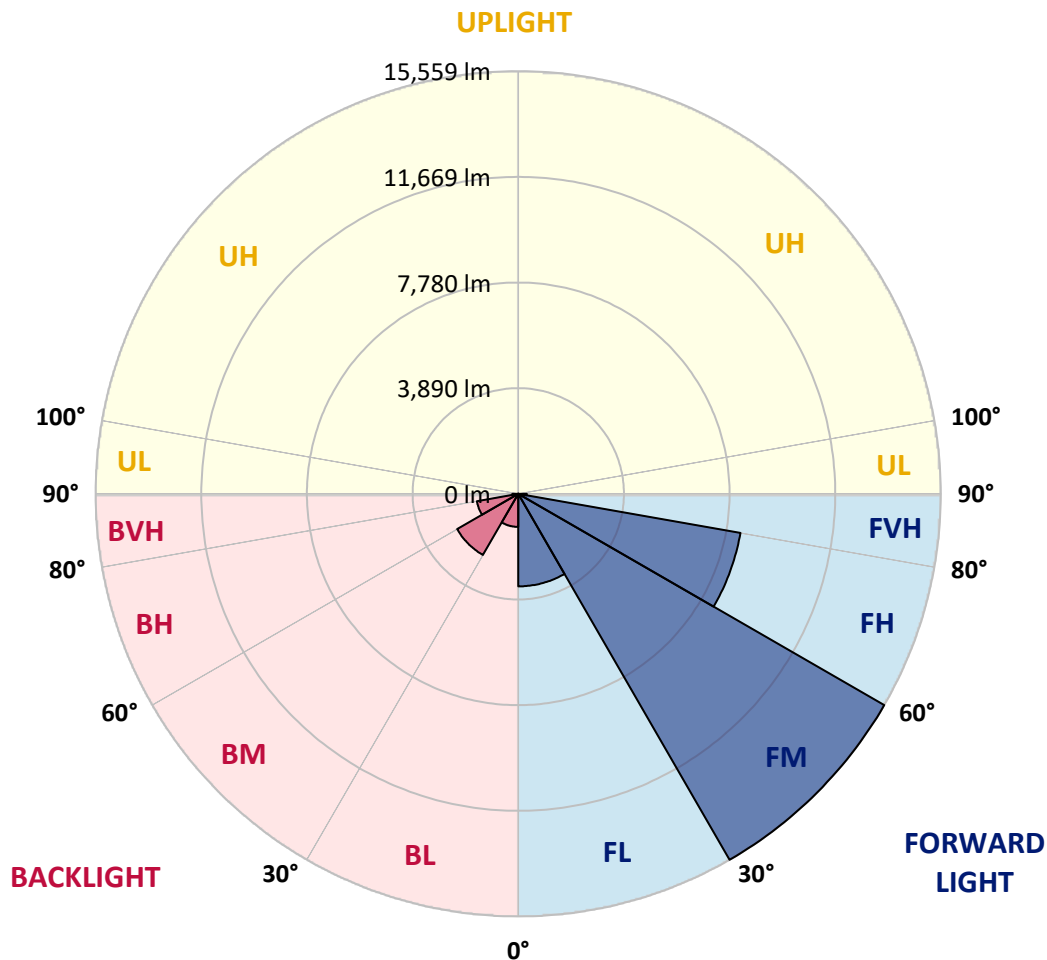
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 CATALOG NUMBER: GLEON-SA6B-735-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3406.5	10.3			
FM (30°-60°)	15559.3	46.9			
FH (60°-80°)	8307.8	25.0			G4/12000
FVH (80°-90°)	315.5	1.0			G3/500
BL (0°-30°)	1217.3	3.7	B3/2500		
BM (30°-60°)	2599.1	7.8	B3/5000		
BH (60°-80°)	1546.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	218.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2
2.5°	4021.3	3960.5	3954.9	3865.9	3845.6	3675.6	3550.6	3420.0	3271.3	3242.1	3125.0
5°	5165.4	5159.8	5082.2	4936.8	4823.1	4532.5	4245.4	3941.4	3608.1	3553.9	3290.5
7.5°	6194.7	6185.7	6126.0	5969.5	5805.0	5448.1	5038.2	4571.9	4031.5	3951.5	3514.5
10°	6976.2	6972.8	6952.6	6837.7	6698.1	6355.8	5903.0	5266.8	4523.6	4414.3	3794.9
12.5°	7579.8	7586.5	7600.0	7559.5	7493.1	7201.4	6737.5	6003.3	5048.3	4940.2	4106.9
15°	7988.6	8008.9	8078.7	8136.1	8171.0	7991.9	7542.6	6756.6	5636.1	5506.7	4452.6
17.5°	8194.6	8217.2	8337.6	8511.1	8671.0	8653.0	8296.0	7475.1	6200.3	6075.4	4824.2
20°	8372.6	8389.5	8524.6	8733.0	9015.6	9140.6	8940.2	8166.5	6818.6	6669.9	5218.3
22.5°	8888.4	8909.7	8950.3	9068.5	9318.6	9548.3	9451.4	8820.7	7385.0	7246.5	5592.3
25°	9883.8	9909.7	9821.9	9721.6	9769.0	9928.9	9946.9	9417.6	7959.3	7802.7	5994.2
27.5°	11083.1	11120.3	10970.5	10712.6	10487.4	10425.5	10404.1	9906.4	8507.7	8326.5	6391.7
30°	12257.7	12321.9	12127.0	11792.6	11379.3	11088.8	10873.7	10384.9	9048.2	8874.9	6766.8
32.5°	13405.2	13379.3	13096.6	12770.0	12285.8	11922.0	11401.8	10898.5	9656.3	9457.0	7139.5
35°	14191.2	14200.1	13937.8	13550.4	13088.7	12809.4	12109.0	11452.4	10276.8	10093.2	7563.0
37.5°	14860.0	14818.4	14521.2	14159.6	13762.1	13642.7	12936.7	12062.8	10949.1	10748.7	8013.4
40°	15083.1	15034.6	14839.8	14579.7	14261.0	14250.8	13850.0	12754.3	11709.2	11511.0	8521.2
42.5°	14947.9	14885.9	14806.0	14735.0	14637.1	14682.1	14708.0	13565.0	12544.8	12323.0	9109.0
45°	14449.0	14355.6	14411.9	14566.1	14779.0	15033.5	15482.8	14462.6	13480.6	13294.8	9799.3
47.5°	13682.2	13597.7	13773.4	14103.4	14682.1	15326.3	16215.9	15453.5	14597.7	14413.0	10782.5
50°	12603.4	12628.2	12879.2	13479.5	14354.4	15461.4	17119.1	16765.4	16221.5	16049.3	12123.6
52.5°	10833.2	10837.6	11544.9	12530.2	13773.4	15391.6	17620.1	18442.2	18438.9	18230.5	13400.6
55°	9189.0	9289.2	9848.9	11158.5	12832.0	15112.3	17970.4	19257.5	19894.9	19650.5	14590.9
57.5°	7583.2	7641.8	8172.1	9487.4	11488.5	14368.0	18329.6	20236.1	21572.8	21418.5	16070.6
60°	5756.7	5846.8	6395.2	7610.2	9770.1	13047.1	18363.4	21257.5	23578.4	23422.9	17722.6
62.5°	3736.4	3891.8	4405.3	5543.8	7691.3	11147.3	17579.6	21925.3	25479.2	25424.1	19188.8
65°	2147.5	2264.6	2621.6	3499.9	5306.2	8762.2	15715.9	21668.4	26649.2	26617.7	19737.3
66°	1754.5	1827.7	2101.3	2735.3	4378.3	7694.7	14632.6	21126.8	26765.2	26766.3	19674.2
67.5°	1403.1	1435.8	1558.6	1958.3	3230.8	6098.9	12696.8	19932.0	26621.1	26660.5	19267.7
70°	1161.0	1177.9	1216.2	1313.0	1763.5	3677.8	9012.2	16827.4	25174.0	25204.4	17681.0
72.5°	1041.7	1051.8	1066.4	1079.9	1244.4	2055.2	5504.4	13461.4	22071.6	22111.0	15263.2
75°	943.7	949.3	947.0	948.2	1043.9	1309.7	2844.6	10050.5	17846.5	17767.7	11692.3
77.5°	828.8	834.5	823.2	825.4	923.4	1006.7	1415.5	7035.9	12043.7	11487.4	6587.7
80°	700.4	704.9	700.4	708.3	804.0	760.1	823.2	3958.2	5325.4	5037.1	2342.3
82.5°	529.3	548.4	561.9	593.5	662.1	540.5	550.6	1541.6	1621.5	1543.9	718.4
85°	232.0	282.6	423.4	453.8	497.7	324.3	361.4	628.3	659.9	639.6	261.3
87.5°	60.8	66.4	209.4	263.5	275.9	146.4	188.1	286.0	301.8	286.0	86.7
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°	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2	3029.2
2.5°	3063.0	3007.8	2908.8	2820.9	2754.5	2709.4	2664.3	2641.9	2628.4	2614.9	2617.1
5°	3160.9	3049.5	2879.4	2759.0	2691.4	2648.6	2626.0	2617.1	2611.4	2597.9	2597.9
7.5°	3308.5	3150.9	2916.6	2792.8	2739.8	2707.2	2693.7	2689.1	2682.4	2666.6	2668.9
10°	3494.3	3273.6	2994.3	2873.8	2825.4	2789.3	2770.2	2763.4	2751.0	2733.1	2735.3
12.5°	3712.8	3425.6	3096.7	2970.7	2912.1	2863.7	2832.2	2813.0	2791.6	2768.0	2769.1
15°	3951.5	3591.1	3207.1	3057.3	2977.4	2909.9	2859.2	2826.5	2792.8	2763.4	2762.3
17.5°	4193.6	3751.1	3291.6	3104.7	2996.6	2907.6	2838.9	2788.2	2746.6	2710.5	2707.2
20°	4454.8	3895.2	3338.9	3100.2	2960.6	2854.6	2763.4	2700.4	2654.3	2618.2	2612.5
22.5°	4720.6	4030.3	3346.8	3054.0	2880.5	2751.0	2655.4	2585.5	2538.3	2501.1	2487.6
25°	4963.8	4135.0	3314.2	2965.0	2769.1	2629.5	2536.0	2465.1	2426.8	2382.8	2369.3
27.5°	5185.7	4208.3	3248.8	2851.3	2644.1	2506.7	2418.9	2358.0	2316.4	2282.6	2271.4
30°	5385.0	4247.7	3141.8	2716.2	2515.7	2390.7	2316.4	2274.7	2238.7	2195.9	2188.0
32.5°	5574.2	4247.7	3004.4	2568.6	2388.5	2288.3	2244.3	2218.4	2177.9	2136.2	2125.0
35°	5763.4	4221.8	2842.2	2414.4	2271.4	2215.0	2212.8	2182.4	2120.5	2064.1	2049.5
37.5°	5962.7	4168.9	2659.8	2270.2	2175.6	2182.4	2201.5	2134.0	2046.1	1966.2	1944.8
40°	6187.9	4095.6	2470.7	2145.3	2095.7	2167.7	2171.2	2064.1	1893.0	1819.8	1800.7
42.5°	6452.6	4022.4	2295.0	2034.9	2032.6	2123.8	2113.7	1913.2	1810.7	1773.6	1763.5
45°	6800.6	3980.8	2128.3	1930.2	1983.1	2052.9	2015.7	1829.9	1787.1	1765.7	1756.7
47.5°	7349.0	4002.2	1975.2	1846.8	1933.5	1982.0	1833.3	1796.1	1765.7	1739.9	1730.8
50°	8035.9	3989.8	1851.4	1789.4	1877.3	1907.6	1751.1	1752.2	1736.5	1707.2	1693.6
52.5°	8552.7	3892.9	1771.3	1756.7	1827.7	1775.9	1699.3	1709.4	1701.6	1658.7	1644.1
55°	9051.7	3809.6	1730.8	1744.3	1791.6	1611.5	1638.5	1663.3	1655.4	1613.7	1606.9
57.5°	9672.1	3793.8	1706.0	1747.7	1761.2	1529.2	1579.9	1612.6	1606.9	1588.9	1585.6
60°	10432.2	3798.4	1683.5	1753.4	1727.5	1468.4	1524.8	1566.4	1569.8	1566.4	1564.2
62.5°	10850.0	3675.6	1627.2	1737.6	1667.7	1415.5	1467.3	1528.1	1529.2	1536.0	1534.9
65°	10495.3	3308.5	1522.5	1682.4	1567.5	1371.6	1417.7	1484.2	1467.3	1497.7	1497.7
66°	10150.7	3096.7	1470.7	1646.3	1524.8	1354.7	1402.0	1461.7	1440.3	1482.0	1482.0
67.5°	9446.9	2739.8	1377.2	1569.8	1463.9	1331.1	1384.0	1424.5	1395.3	1457.2	1452.7
70°	8160.9	2119.4	1189.1	1396.4	1363.7	1296.2	1359.2	1350.2	1307.4	1402.0	1384.0
72.5°	6880.5	1610.4	954.9	1168.9	1211.7	1252.2	1324.3	1255.6	1201.5	1268.0	1228.6
75°	5338.9	1210.5	754.5	908.7	1023.6	1183.5	1282.6	1146.4	1068.7	1061.9	1040.5
77.5°	2886.2	831.0	598.0	693.7	813.1	1097.9	1254.5	1029.3	912.2	885.2	868.2
80°	1143.0	540.5	434.7	525.9	568.7	974.1	1186.9	893.0	752.2	725.2	699.3
82.5°	471.8	319.8	280.4	352.5	370.5	833.4	1065.3	732.0	581.1	804.0	853.6
85°	202.7	175.7	166.7	182.4	209.4	584.5	848.0	558.6	627.2	559.7	444.8
87.5°	60.8	74.3	71.0	69.8	76.6	139.6	451.5	310.8	460.6	174.6	130.6
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)