

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: P382940

Luminaire Tested: **GLEON-SA3A-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA 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: 10978.3 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

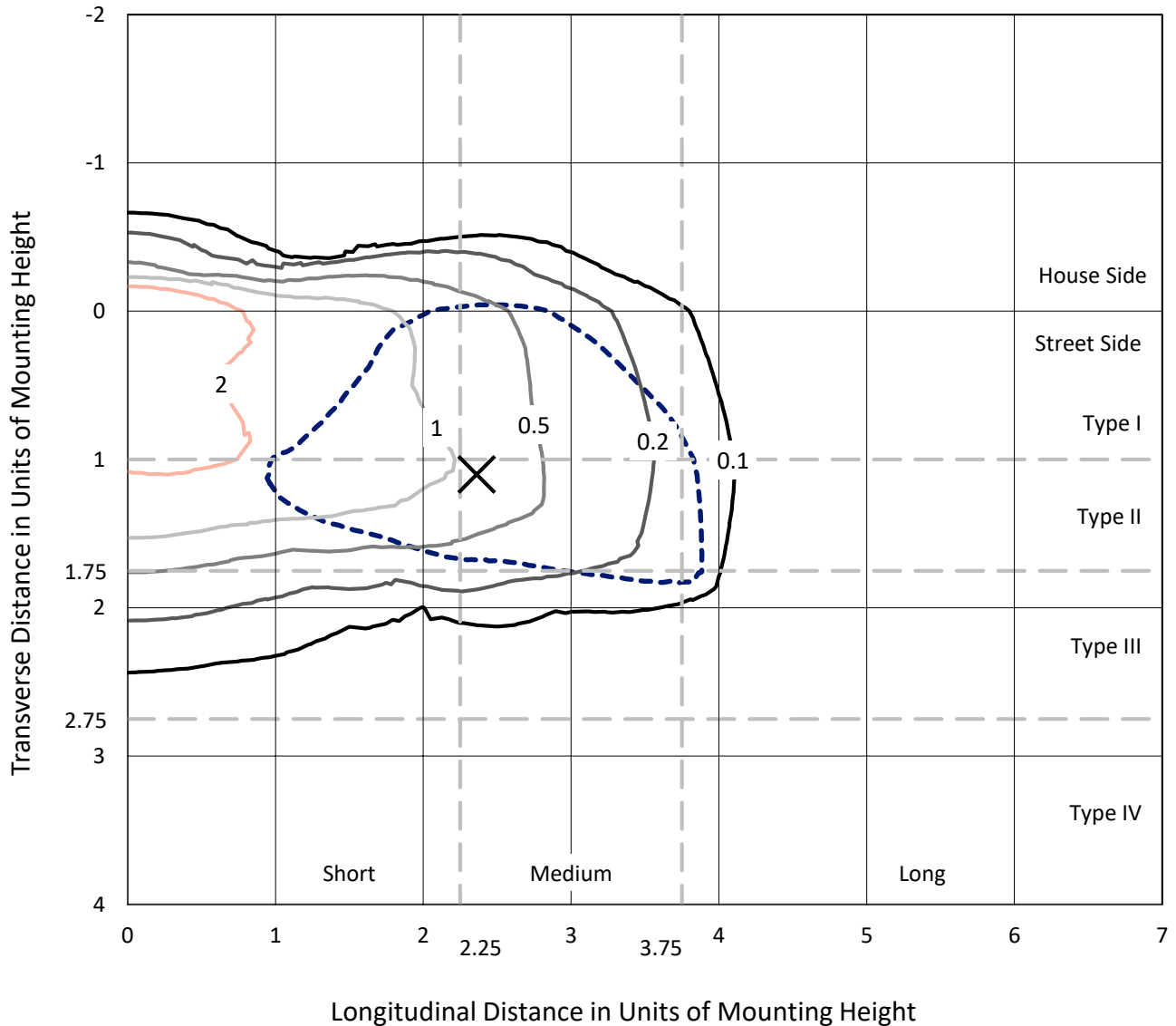
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

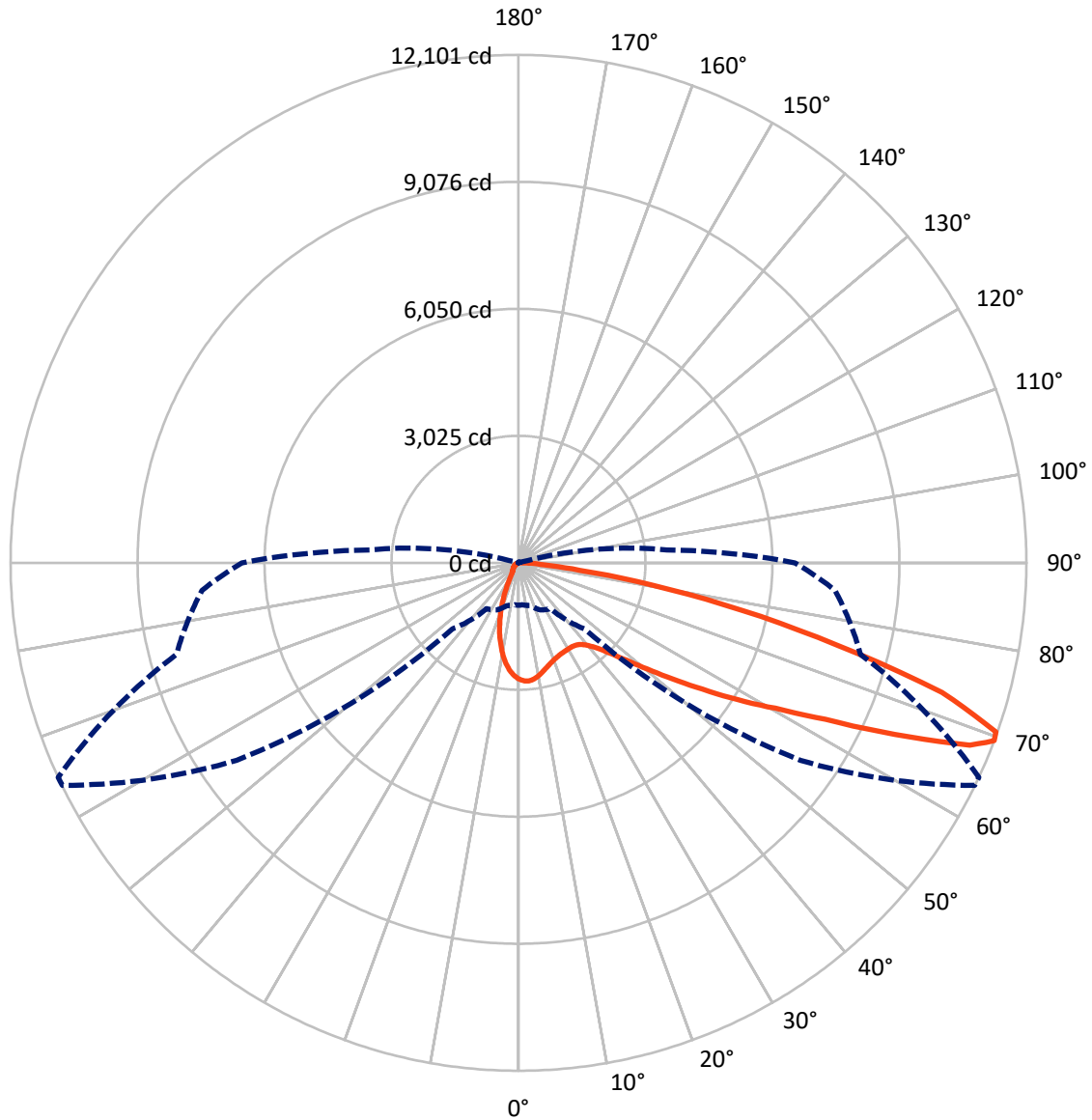
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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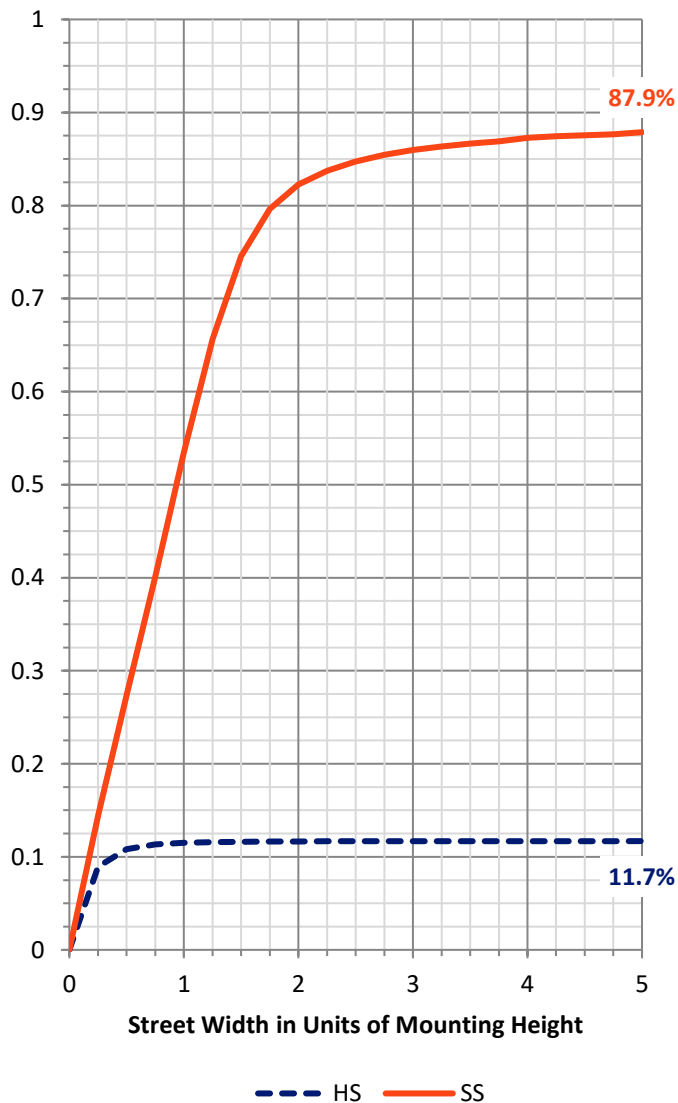
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1294.1	0.0	1294.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	9684.2	0.0	9684.2
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	10978.3	0.0	10978.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.0	2.1
10°-20°	507.8	4.6
20°-30°	703.4	6.4
30°-40°	980.7	8.9
40°-50°	1524.3	13.9
50°-60°	2447.1	22.3
60°-70°	2768.1	25.2
70°-80°	1625.7	14.8
80°-90°	189.1	1.7
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°	10978.3	100.0
0°-180°	10978.3	100.0

**Coefficient of Utilization**

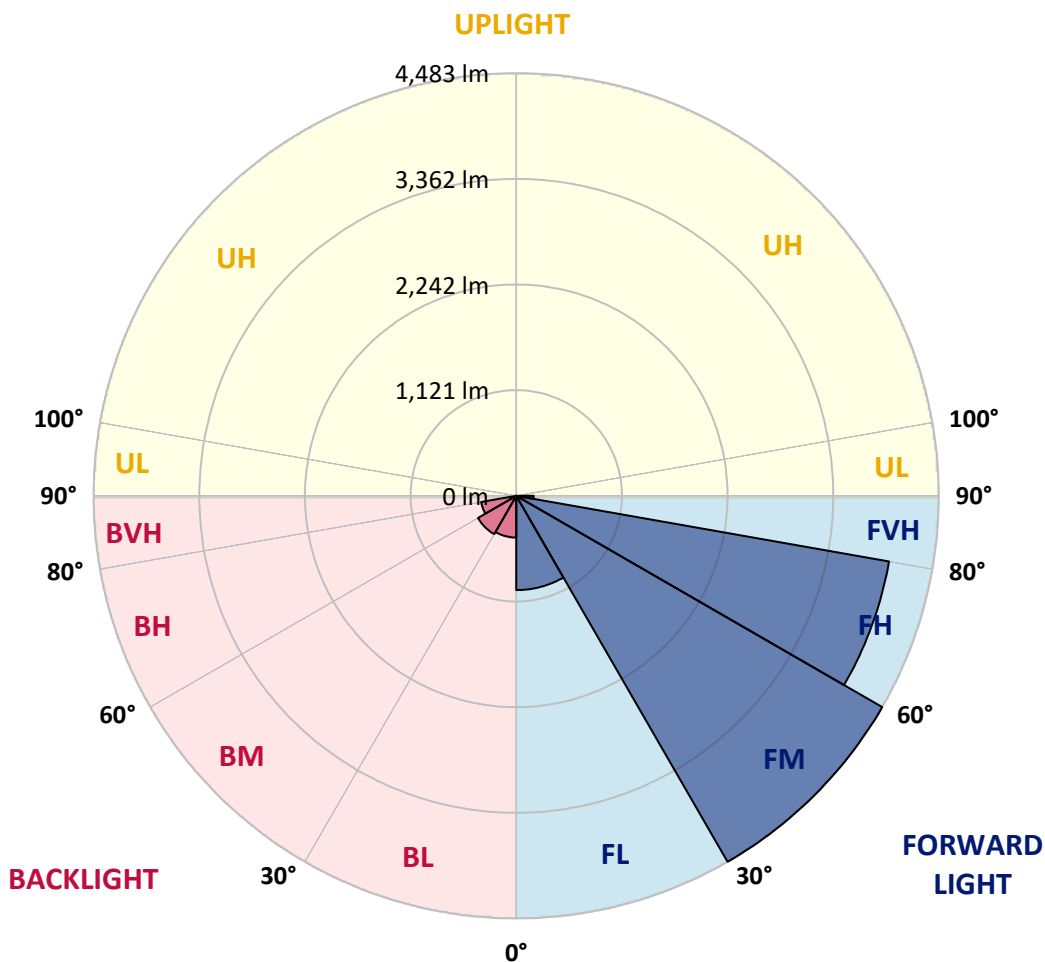


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.4	9.1			
FM (30°-60°)	4483.2	40.8			
FH (60°-80°)	4015.7	36.6			G2/5000
FVH (80°-90°)	184.9	1.7			G2/225
BL (0°-30°)	442.8	4.0	B1/500		
BM (30°-60°)	468.9	4.3	B1/1000		
BH (60°-80°)	378.1	3.4	B1/500		G1/500
BVH (80°-90°)	4.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2
2.5°	2798.8	2791.8	2797.4	2809.5	2815.6	2815.6	2820.3	2814.7	2816.5	2803.0	2783.6
5°	2623.7	2613.0	2628.4	2662.3	2704.1	2739.9	2792.8	2820.7	2823.4	2823.9	2801.2
7.5°	2435.2	2425.4	2448.1	2488.1	2542.0	2608.4	2700.8	2781.7	2786.4	2829.9	2813.3
10°	2281.8	2274.8	2301.3	2344.1	2407.2	2481.5	2594.9	2707.4	2720.8	2817.5	2811.4
12.5°	2160.1	2154.6	2179.6	2228.8	2293.5	2375.6	2494.1	2624.6	2642.8	2789.1	2802.1
15°	2071.4	2070.5	2091.3	2138.7	2210.3	2286.9	2408.1	2548.0	2568.9	2758.4	2800.7
17.5°	2024.9	2026.3	2041.7	2082.1	2143.4	2219.6	2335.7	2483.4	2506.2	2731.0	2807.7
20°	2020.2	2021.6	2030.0	2052.8	2102.5	2169.9	2276.7	2429.1	2452.8	2710.6	2818.9
22.5°	2061.1	2060.2	2062.5	2060.2	2088.1	2139.2	2237.7	2387.3	2414.7	2697.1	2827.6
25°	2139.7	2138.3	2137.3	2120.2	2101.6	2129.0	2221.5	2363.6	2389.6	2687.3	2832.7
27.5°	2248.8	2247.9	2246.5	2218.2	2162.4	2145.3	2223.3	2354.8	2376.6	2679.5	2831.8
30°	2392.4	2398.9	2397.1	2357.6	2270.6	2194.9	2242.8	2350.1	2369.1	2664.1	2822.1
32.5°	2561.0	2574.1	2584.2	2542.0	2433.3	2293.5	2287.9	2355.2	2369.1	2652.5	2804.4
35°	2736.1	2752.9	2790.5	2775.6	2632.6	2441.6	2365.5	2385.9	2397.5	2659.0	2796.0
37.5°	2908.5	2928.5	3010.2	3053.4	2893.6	2637.7	2486.2	2461.6	2467.7	2698.5	2805.4
40°	3108.7	3138.9	3262.9	3332.6	3205.4	2900.1	2666.9	2591.7	2594.0	2785.4	2848.6
42.5°	3371.6	3402.8	3537.0	3646.2	3556.6	3231.8	2912.2	2790.5	2788.2	2948.0	2950.3
45°	3692.2	3724.7	3863.6	3984.8	3944.5	3624.8	3226.2	3080.8	3078.0	3204.4	3143.0
47.5°	4055.4	4087.4	4211.5	4336.4	4380.1	4083.8	3626.2	3477.1	3470.6	3560.7	3440.9
50°	4367.1	4388.1	4502.4	4670.5	4867.4	4647.7	4123.7	3980.2	3973.2	4034.1	3877.9
52.5°	4480.5	4492.6	4608.7	4844.2	5335.7	5411.5	4777.3	4592.4	4587.3	4613.8	4460.1
55°	4251.0	4272.8	4415.4	4764.8	5589.4	6274.5	5602.3	5350.5	5312.1	5254.9	5068.6
57.5°	3625.8	3660.6	3813.8	4278.4	5470.9	6959.3	6814.8	6208.1	6151.5	5802.1	5563.3
60°	2716.7	2759.3	2886.7	3387.9	4838.6	7203.2	8139.7	7163.7	7035.9	6237.8	6018.1
62.5°	1864.2	1885.5	1972.0	2298.5	3563.4	6803.7	9248.0	8443.5	8210.3	6711.7	6510.0
65°	1423.8	1431.2	1466.5	1579.0	2122.0	5526.6	9688.9	10132.1	9850.1	7278.4	7020.6
67.5°	1147.4	1141.3	1190.1	1350.8	1421.0	3371.6	9174.6	11729.7	11597.7	8036.1	7534.4
69°	1011.8	1003.4	1053.1	1239.9	1334.6	2228.8	8201.9	12092.4	12100.8	8436.0	7569.7
70°	910.5	916.1	965.3	1173.9	1305.4	1749.4	7272.9	12000.0	12066.0	8585.6	7357.8
72.5°	608.1	622.9	721.9	974.6	1255.2	1323.9	4391.3	10297.4	10551.1	8248.9	6312.6
75°	342.8	354.0	471.5	734.9	1182.7	1260.8	2319.5	7586.4	7831.7	6897.9	4867.9
77.5°	168.1	174.2	266.6	474.3	989.0	1201.3	1315.5	5153.1	5433.3	4502.4	2753.3
80°	71.1	74.3	133.3	292.7	707.0	1146.5	976.9	3171.5	3206.3	1763.9	733.5
82.5°	27.4	28.3	56.2	182.6	449.2	893.8	817.2	1503.7	1467.5	332.2	167.2
85°	3.3	3.7	20.4	109.6	249.9	459.9	663.8	648.1	599.7	66.0	86.0
87.5°	0.0	0.0	1.4	33.4	74.3	215.6	345.1	268.9	242.5	21.3	44.6
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°	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2	2774.2
2.5°	2767.3	2762.6	2737.5	2701.3	2666.9	2624.2	2583.3	2558.7	2539.2	2526.2	2541.5
5°	2774.7	2754.2	2678.1	2580.5	2484.8	2377.0	2276.7	2191.7	2158.2	2121.1	2137.8
7.5°	2772.4	2733.8	2596.8	2423.0	2247.5	2065.8	1893.9	1761.6	1692.8	1625.5	1642.6
10°	2760.7	2695.7	2488.1	2230.7	1967.8	1706.7	1462.8	1277.5	1173.9	1080.0	1093.5
12.5°	2735.2	2644.7	2359.9	2010.6	1658.9	1314.7	1029.0	791.5	664.3	608.1	615.0
15°	2719.8	2594.9	2224.3	1787.5	1329.0	915.6	629.0	467.8	409.7	391.2	393.5
17.5°	2712.5	2547.0	2084.0	1532.5	991.8	583.0	406.4	358.6	346.1	342.8	343.7
20°	2705.0	2498.8	1939.5	1280.2	683.4	392.1	334.0	320.1	315.4	311.2	312.2
22.5°	2692.5	2452.3	1784.3	1024.8	460.8	318.2	301.0	287.6	277.8	272.7	273.6
25°	2677.2	2403.5	1625.9	763.2	336.3	283.8	267.5	248.5	236.9	227.7	228.0
27.5°	2652.5	2343.6	1462.3	555.6	282.4	254.1	232.2	211.4	191.9	181.2	181.2
30°	2618.1	2275.8	1280.7	397.7	253.2	224.9	198.3	172.3	151.5	141.7	140.8
32.5°	2580.0	2205.2	1097.3	301.4	229.9	197.4	167.2	139.8	121.3	113.4	112.9
35°	2547.5	2129.0	914.2	252.7	206.7	170.9	138.0	114.8	99.9	93.3	92.9
37.5°	2526.6	2052.8	735.8	225.8	185.8	146.3	115.7	94.7	84.1	79.0	78.5
40°	2523.4	1996.1	572.8	205.3	166.3	124.5	96.6	80.4	70.6	65.0	64.6
42.5°	2565.7	1963.6	439.4	188.2	146.3	105.5	82.3	68.7	58.5	52.9	52.5
45°	2676.7	1973.9	338.2	172.8	126.3	89.1	69.7	57.1	47.9	43.7	42.8
47.5°	2879.2	2044.5	268.9	157.5	107.3	75.7	59.4	47.4	39.5	35.3	34.8
50°	3239.7	2210.3	224.9	140.8	89.6	64.6	49.3	38.6	32.0	28.3	27.9
52.5°	3718.2	2505.8	200.7	124.5	74.3	54.8	40.4	30.6	25.1	22.3	21.8
55°	4245.9	2863.4	184.9	106.8	60.8	45.6	32.0	24.1	19.5	17.2	16.3
57.5°	4761.0	3173.3	170.0	89.6	50.7	37.2	25.5	19.0	15.4	13.0	12.6
60°	5234.5	3458.0	152.9	72.0	41.4	29.3	19.9	14.9	12.1	9.8	9.8
62.5°	5741.2	3678.2	129.1	56.2	33.9	22.3	16.3	13.5	9.8	8.4	7.9
65°	6278.3	3841.7	101.3	43.7	26.5	16.8	13.5	14.0	7.9	6.1	5.6
67.5°	6675.0	3809.2	74.8	34.4	20.4	13.0	13.0	14.9	7.0	4.7	4.2
69°	6587.6	3544.9	62.7	29.7	17.6	11.2	12.1	14.9	6.5	4.2	3.7
70°	6334.4	3252.2	55.2	26.5	15.8	10.2	11.6	14.4	6.1	4.2	3.7
72.5°	5275.4	2449.5	43.2	19.9	12.6	8.4	9.8	12.6	6.1	4.2	3.3
75°	3968.1	1567.8	33.0	14.4	9.3	6.5	7.5	9.3	6.1	3.7	3.3
77.5°	2159.1	565.4	23.7	9.8	6.5	5.1	5.1	7.0	5.6	2.8	1.9
80°	555.1	142.2	14.9	6.5	5.1	3.7	3.3	4.7	3.3	0.5	0.0
82.5°	137.0	32.0	7.9	4.7	3.7	1.4	1.4	2.3	1.4	0.0	0.0
85°	75.3	15.8	5.1	3.3	1.9	0.0	0.0	0.5	0.0	0.0	0.0
87.5°	38.6	4.7	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
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)