

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: P648535

Luminaire Tested: **GALN-SA7B-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26302.5 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

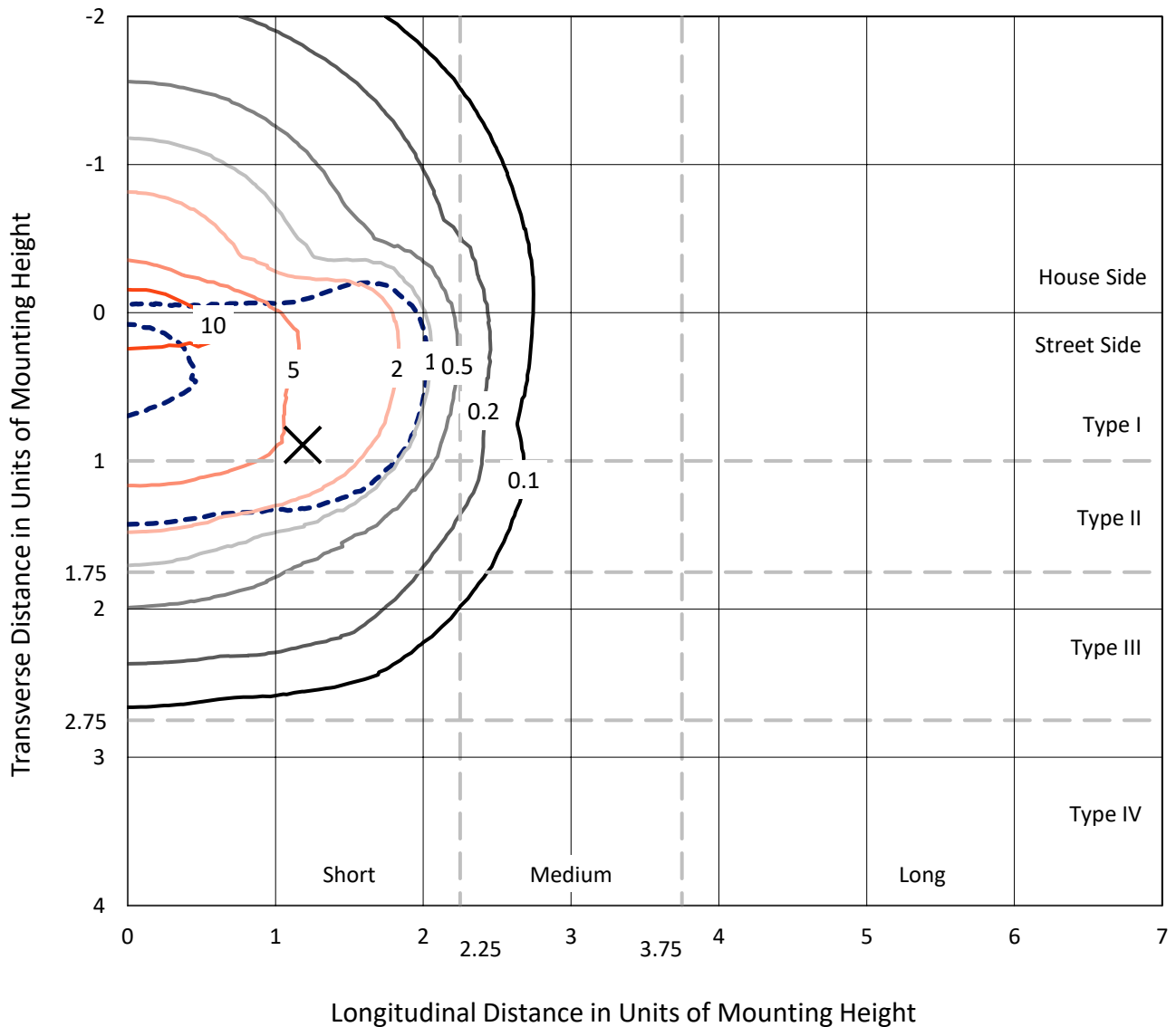
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

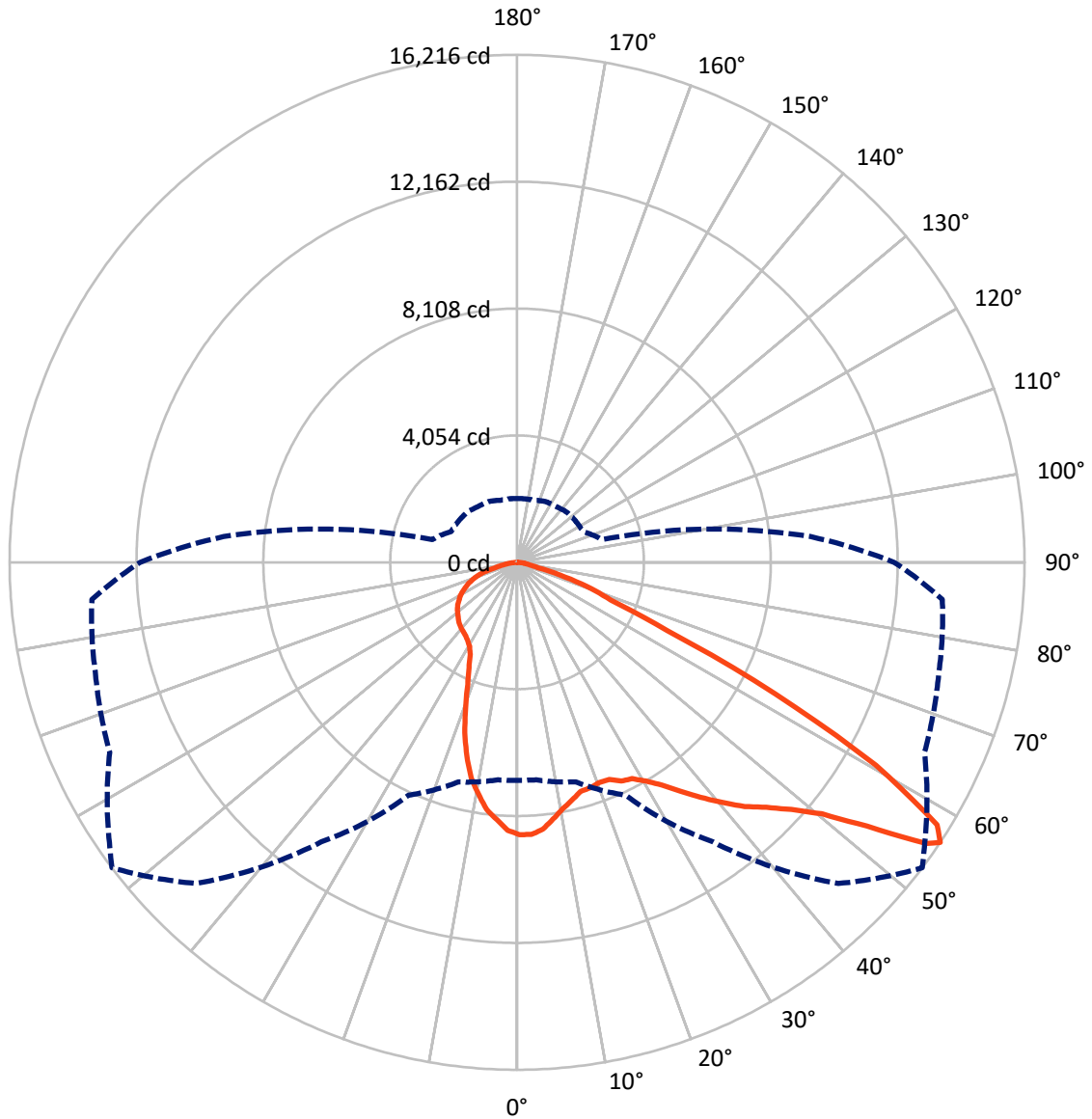
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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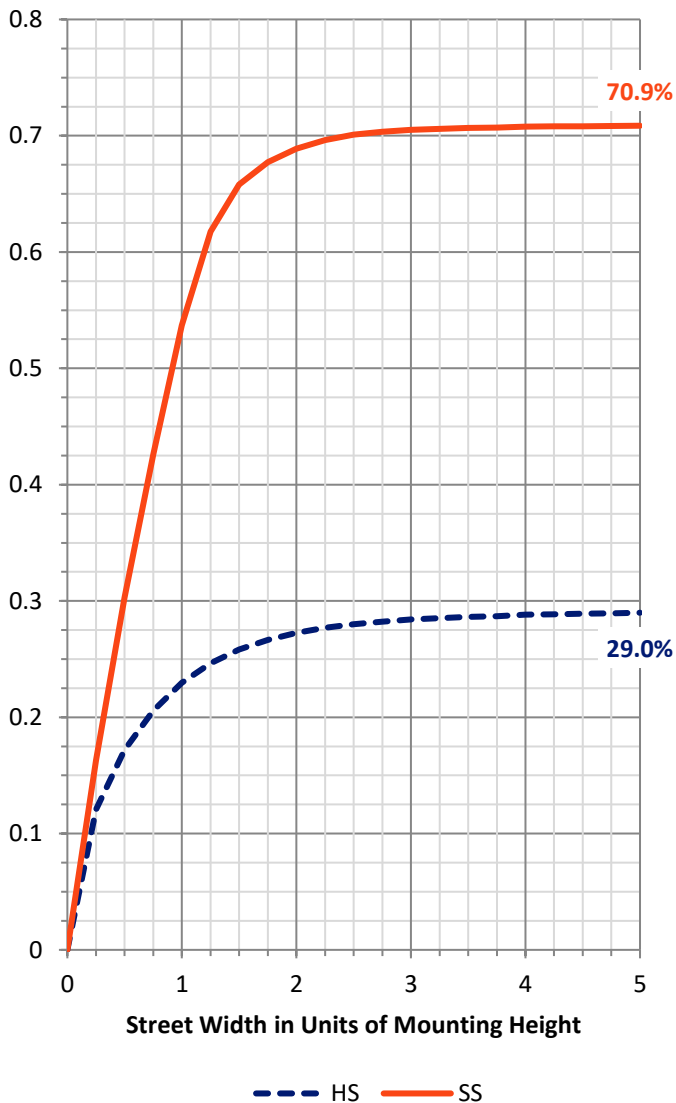
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7675.7	0.0	7675.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	18626.9	0.0	18626.9
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	26302.5	0.0	26302.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.4	2.9
10°-20°	1924.0	7.3
20°-30°	2837.2	10.8
30°-40°	4053.8	15.4
40°-50°	5579.5	21.2
50°-60°	6593.4	25.1
60°-70°	3513.9	13.4
70°-80°	891.4	3.4
80°-90°	139.0	0.5
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°	26302.5	100.0
0°-180°	26302.5	100.0

**Coefficient of Utilization**

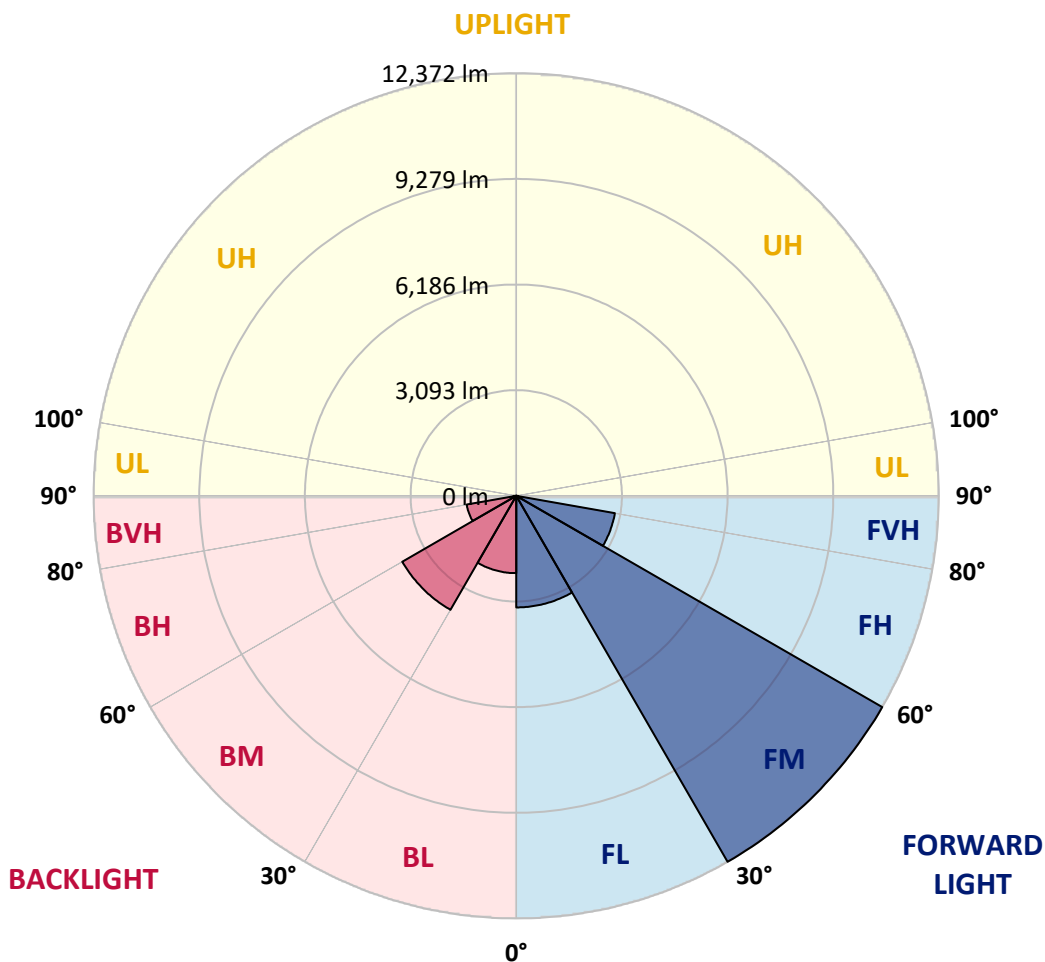


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3267.7	12.4			
FM (30°-60°)	12372.2	47.0			
FH (60°-80°)	2931.1	11.1			G2/5000
FVH (80°-90°)	55.9	0.2			G1/100
BL (0°-30°)	2263.9	8.6	B3/2500		
BM (30°-60°)	3854.5	14.7	B3/5000		
BH (60°-80°)	1474.2	5.6	B3/2500		G3/2500
BVH (80°-90°)	83.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9
2.5°	8594.0	8519.7	8563.6	8546.7	8685.0	8725.5	8705.3	8722.2	8799.7	8762.6	8685.0
5°	8030.4	8135.1	8155.3	8205.9	8286.9	8445.5	8570.3	8604.1	8641.2	8813.3	8796.4
7.5°	7517.6	7588.4	7551.3	7699.8	7875.3	8131.7	8283.5	8310.5	8651.3	8745.8	8816.7
10°	7193.7	7122.8	7291.5	7332.0	7531.1	7824.7	8006.9	8118.2	8428.6	8803.1	8847.0
12.5°	6893.4	6869.7	6971.0	7085.7	7308.4	7612.1	7797.7	7841.5	8320.6	8715.4	8921.3
15°	6670.7	6643.7	6744.9	6829.2	7089.0	7359.0	7595.2	7720.1	8202.6	8664.8	8857.1
17.5°	6495.2	6491.9	6549.2	6701.1	6967.6	7193.7	7575.0	7581.7	8141.8	8742.4	8911.1
20°	6485.1	6481.8	6491.9	6660.6	6903.5	7180.2	7510.8	7571.6	8141.8	8688.4	8914.5
22.5°	6569.4	6515.5	6576.2	6684.2	6859.6	7203.8	7534.5	7669.4	8337.5	8955.0	9066.4
25°	6704.4	6717.9	6751.7	6788.8	6890.0	7257.8	7743.6	7855.0	8567.0	9184.4	9275.5
27.5°	6950.8	6944.0	6957.5	6977.7	7065.5	7308.4	7828.0	8114.8	9046.1	9592.7	9501.5
30°	7311.7	7288.2	7342.1	7413.0	7332.0	7470.4	8108.0	8324.0	9491.4	10004.3	9754.6
32.5°	7639.0	7726.8	7828.0	7858.3	7760.5	7787.6	8479.2	8698.5	9862.6	10510.4	10065.1
35°	8047.4	8118.2	8253.1	8347.6	8330.7	8249.8	8985.3	9275.5	10399.1	10881.6	10392.4
37.5°	8445.5	8529.8	8752.5	9032.6	8877.3	8840.2	9525.2	9764.8	10564.5	11080.7	10631.9
40°	9086.6	9083.2	9467.9	9613.0	9751.2	9687.2	10085.4	10166.3	10652.2	11036.9	10638.7
42.5°	9839.0	9791.7	10183.1	10409.2	10588.0	10594.8	10669.1	10642.1	10692.6	10814.1	10567.8
45°	10554.3	10655.5	11050.3	11455.2	11634.0	11654.3	11161.7	11111.1	10763.5	10750.0	10432.8
47.5°	11428.2	11451.8	11775.8	12308.8	12723.9	12582.2	11799.3	11688.0	11074.0	11178.5	10658.9
50°	11478.9	11654.3	11944.4	12572.1	13847.5	13810.4	12626.0	12416.8	11573.3	11785.9	11289.9
52.5°	10419.4	10378.9	10723.0	11748.8	13763.1	15031.8	13996.0	13496.6	12646.3	12484.3	12312.3
55°	7939.4	8033.8	8337.5	9373.4	11951.2	15048.7	15861.9	15453.6	13793.5	13516.9	13317.7
56°	6964.2	6977.7	7264.5	8209.3	10905.2	14512.2	16216.2	15885.5	14363.7	13941.9	13638.3
57.5°	5773.1	5695.5	5844.0	6360.2	9204.6	13378.5	15828.1	16152.0	15031.8	14400.9	13979.1
60°	4545.0	4528.1	4467.3	4561.8	5817.0	10078.5	13176.0	13904.8	14964.3	13969.0	13388.6
62.5°	3711.6	3627.2	3748.7	3883.6	4042.2	6252.3	9258.7	9687.2	11880.4	11151.6	10058.3
65°	2878.2	2837.7	2989.5	3428.1	3522.6	3971.4	5273.8	5604.5	7014.8	6890.0	6066.7
67.5°	1980.6	1987.3	2119.0	2787.0	3266.2	3225.6	3229.1	3401.1	3660.9	2719.6	2368.7
70°	1255.1	1251.8	1322.6	1795.0	2628.5	2655.5	2520.5	2469.9	2341.6	1417.2	1501.5
72.5°	806.4	782.8	819.9	992.0	1359.8	1572.3	1619.6	1649.9	1356.4	1113.5	1207.9
75°	455.5	431.9	418.4	462.3	536.5	620.8	681.6	701.8	786.2	843.5	894.2
77.5°	138.4	124.8	151.8	202.5	266.5	357.7	435.3	448.7	529.8	597.2	647.9
80°	60.8	67.5	94.5	135.0	188.9	253.1	307.0	327.3	381.2	431.9	445.4
82.5°	37.1	40.5	64.1	91.1	131.6	178.8	219.3	226.1	280.1	320.6	330.7
85°	13.5	16.8	33.7	53.9	84.3	114.7	114.7	124.8	114.7	114.7	124.8
87.5°	0.0	0.0	3.4	6.7	6.7	10.1	13.5	13.5	16.8	20.3	23.6
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°	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9	8701.9
2.5°	8725.5	8708.7	8681.7	8583.8	8573.7	8543.3	8374.7	8347.6	8374.7	8293.6	8300.4
5°	8708.7	8759.3	8556.9	8459.0	8276.8	8145.2	7993.3	7915.7	7777.4	7689.7	7787.6
7.5°	8782.9	8762.6	8509.6	8297.0	8023.7	7689.7	7423.2	7271.3	7028.4	6960.9	7011.5
10°	8755.9	8647.9	8351.0	8070.9	7554.7	7261.2	6829.2	6410.9	6181.4	6063.3	6046.5
12.5°	8718.8	8688.4	8192.5	7709.9	7166.6	6549.2	5941.9	5547.1	5172.6	5010.6	5034.2
15°	8762.6	8506.2	7895.5	7284.8	6562.7	5752.9	5098.3	4588.8	4329.1	4224.4	4224.4
17.5°	8742.4	8418.5	7753.8	6809.0	5894.7	4936.3	4217.7	3910.6	3802.6	3802.6	3833.0
20°	8752.5	8475.8	7467.0	6333.3	5105.1	4156.9	3634.0	3522.6	3569.9	3586.7	3603.6
22.5°	8809.9	8286.9	7186.9	5810.3	4372.9	3556.4	3299.9	3303.3	3387.6	3478.7	3461.9
25°	8880.7	8212.7	6846.2	5290.7	3812.8	3262.8	3181.8	3171.7	3235.8	3283.0	3289.8
27.5°	8820.0	8084.5	6498.6	4642.8	3353.9	3067.1	3050.3	3057.0	3077.2	3171.7	3141.3
30°	9019.1	8121.6	6063.3	4099.6	3100.8	3003.0	2982.8	2972.6	3003.0	3030.0	3006.3
32.5°	9265.4	7990.0	5739.4	3576.6	2976.0	2955.7	2915.3	2901.8	2918.6	2891.6	2905.2
35°	9373.4	7966.3	5317.7	3202.1	2878.2	2861.2	2837.7	2834.3	2837.7	2814.0	2793.8
37.5°	9434.1	8077.7	4835.2	3030.0	2817.4	2834.3	2780.3	2773.5	2712.8	2726.3	2736.4
40°	9538.7	7905.6	4443.8	2864.7	2780.3	2746.5	2699.3	2689.2	2648.7	2625.1	2648.7
42.5°	9386.8	7855.0	4059.1	2793.8	2726.3	2689.2	2655.5	2598.1	2584.6	2564.3	2550.9
45°	9265.4	7564.8	3714.9	2706.0	2662.2	2641.9	2577.9	2517.1	2466.5	2486.7	2456.3
47.5°	9356.5	7463.6	3374.2	2631.8	2574.5	2550.9	2486.7	2439.5	2388.9	2365.3	2358.6
50°	9720.9	7652.6	3087.4	2577.9	2500.3	2486.7	2402.4	2348.4	2301.2	2284.3	2291.1
52.5°	10591.4	8168.8	2891.6	2466.5	2429.4	2368.7	2321.4	2253.9	2223.6	2169.5	2203.3
55°	11694.8	9009.0	2841.0	2361.9	2341.6	2287.7	2223.6	2173.0	2115.6	2071.7	2061.6
56°	12049.0	9410.5	2800.6	2321.4	2287.7	2257.3	2173.0	2142.6	2051.5	2041.4	2034.6
57.5°	12335.9	9764.8	2807.3	2243.8	2210.1	2183.1	2132.4	2058.2	1997.5	1960.4	1977.2
60°	11688.0	9140.6	2679.0	2125.7	2119.0	2068.4	1997.5	1963.8	1889.5	1845.7	1835.5
62.5°	8688.4	6205.0	2173.0	1973.9	1970.5	1916.5	1835.5	1798.4	1784.9	1724.2	1724.2
65°	5003.8	3890.4	1879.4	1849.1	1822.0	1768.0	1687.1	1656.7	1622.9	1602.7	1585.8
67.5°	2135.9	2017.7	1707.3	1704.0	1673.6	1606.1	1525.1	1477.9	1434.0	1393.5	1413.8
70°	1548.7	1572.3	1542.0	1525.1	1488.0	1403.6	1332.8	1275.4	1207.9	1180.9	1201.2
72.5°	1228.2	1278.8	1322.6	1326.0	1282.2	1184.3	1106.7	1029.1	954.9	917.8	934.7
75°	931.3	965.0	1008.9	1019.0	954.9	887.4	813.1	732.2	674.9	630.9	637.7
77.5°	671.4	664.7	705.2	698.4	668.1	620.8	553.3	479.1	415.0	374.5	377.9
80°	458.9	469.0	492.7	489.2	452.1	421.8	371.1	310.5	263.2	229.4	222.7
82.5°	320.6	337.4	357.7	340.8	310.5	280.1	243.0	199.0	161.9	135.0	128.3
85°	114.7	131.6	151.8	161.9	172.1	165.4	138.4	111.3	81.0	67.5	64.1
87.5°	23.6	27.0	30.4	30.4	30.4	27.0	23.6	23.6	20.3	10.1	10.1
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)