

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: P647490

Luminaire Tested: **GALN-SA6D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647490  
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-SA6D-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA 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: 30444.6 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

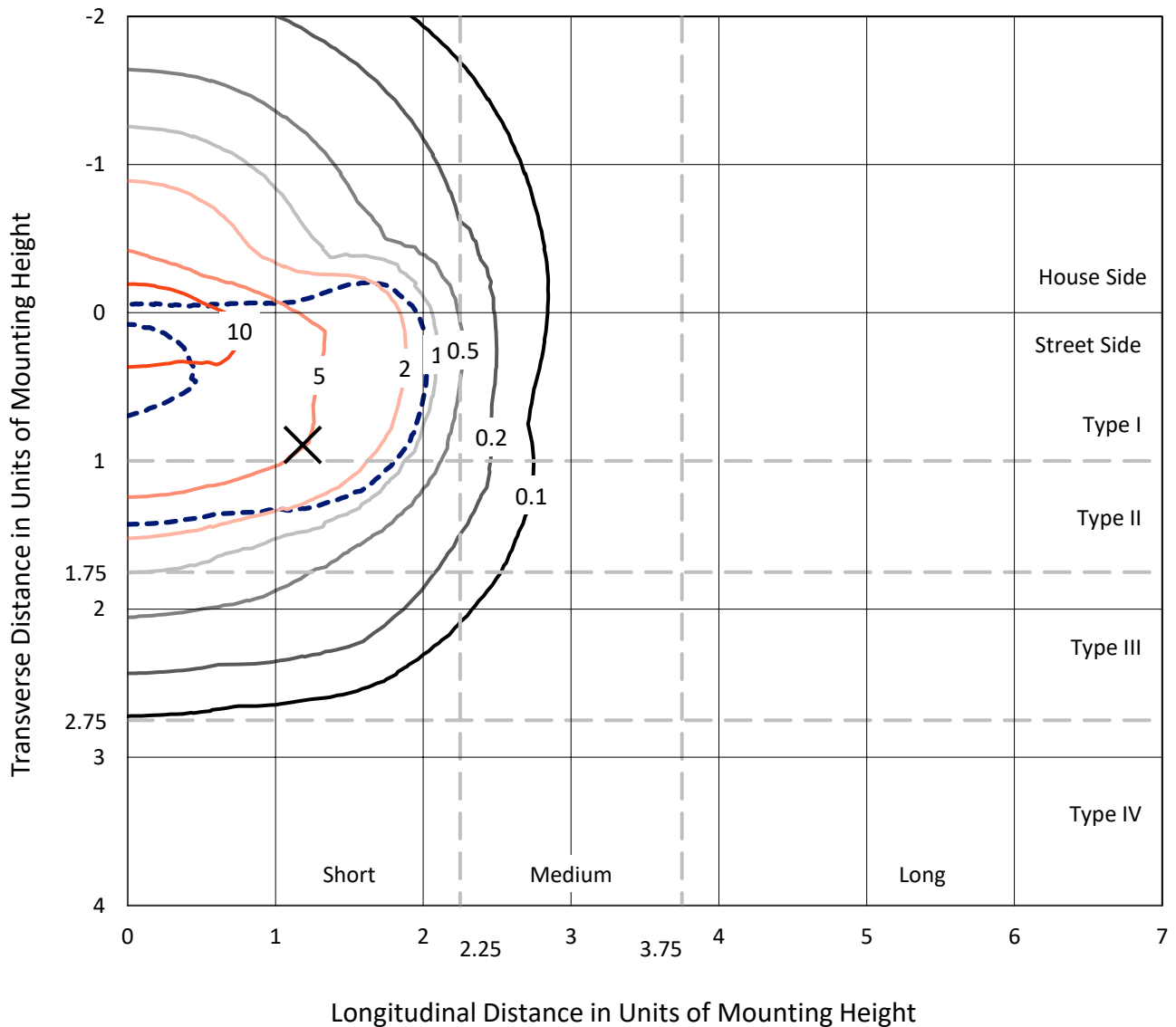
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

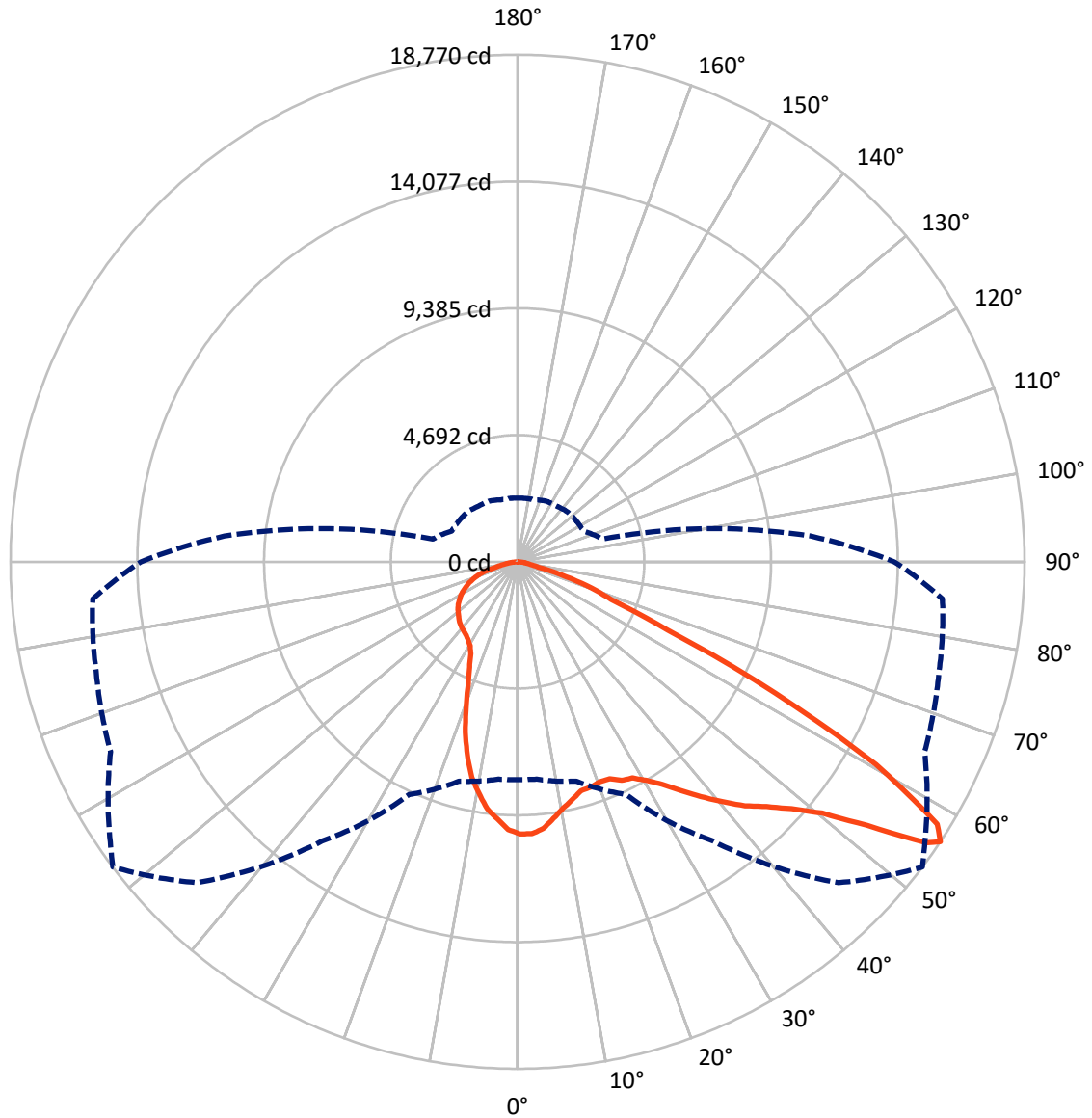
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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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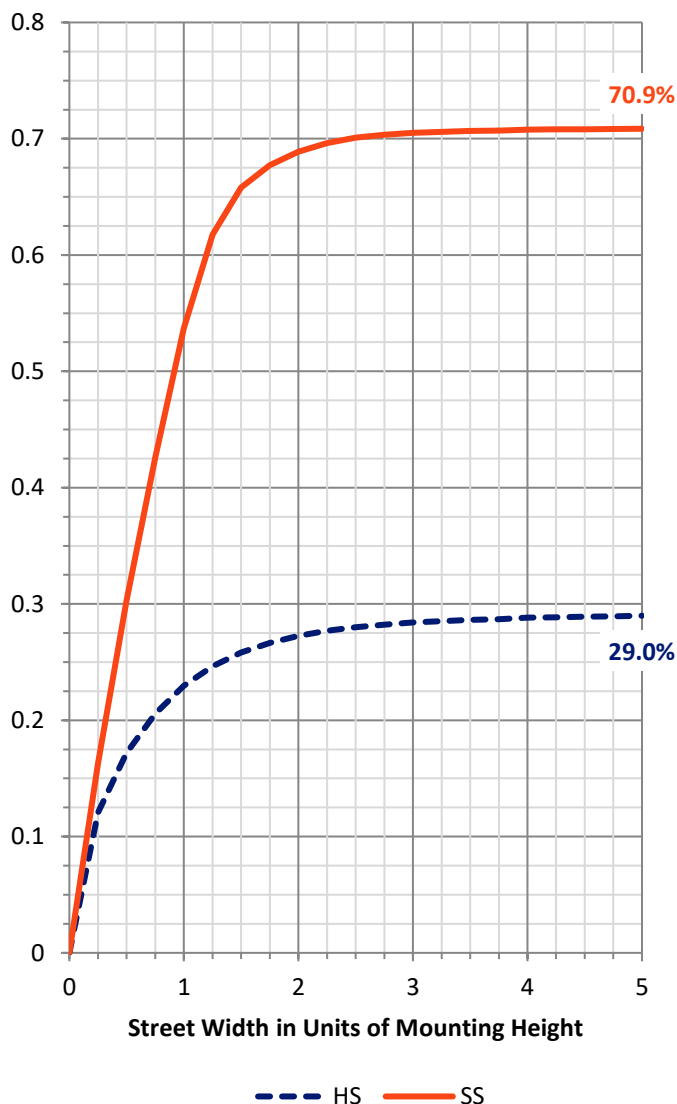
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8884.4	0.0	8884.4
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	21560.2	0.0	21560.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	30444.6	0.0	30444.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	891.7	2.9
10°-20°	2227.0	7.3
20°-30°	3284.0	10.8
30°-40°	4692.1	15.4
40°-50°	6458.1	21.2
50°-60°	7631.7	25.1
60°-70°	4067.2	13.4
70°-80°	1031.8	3.4
80°-90°	160.9	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°	30444.6	100.0
0°-180°	30444.6	100.0

**Coefficient of Utilization**



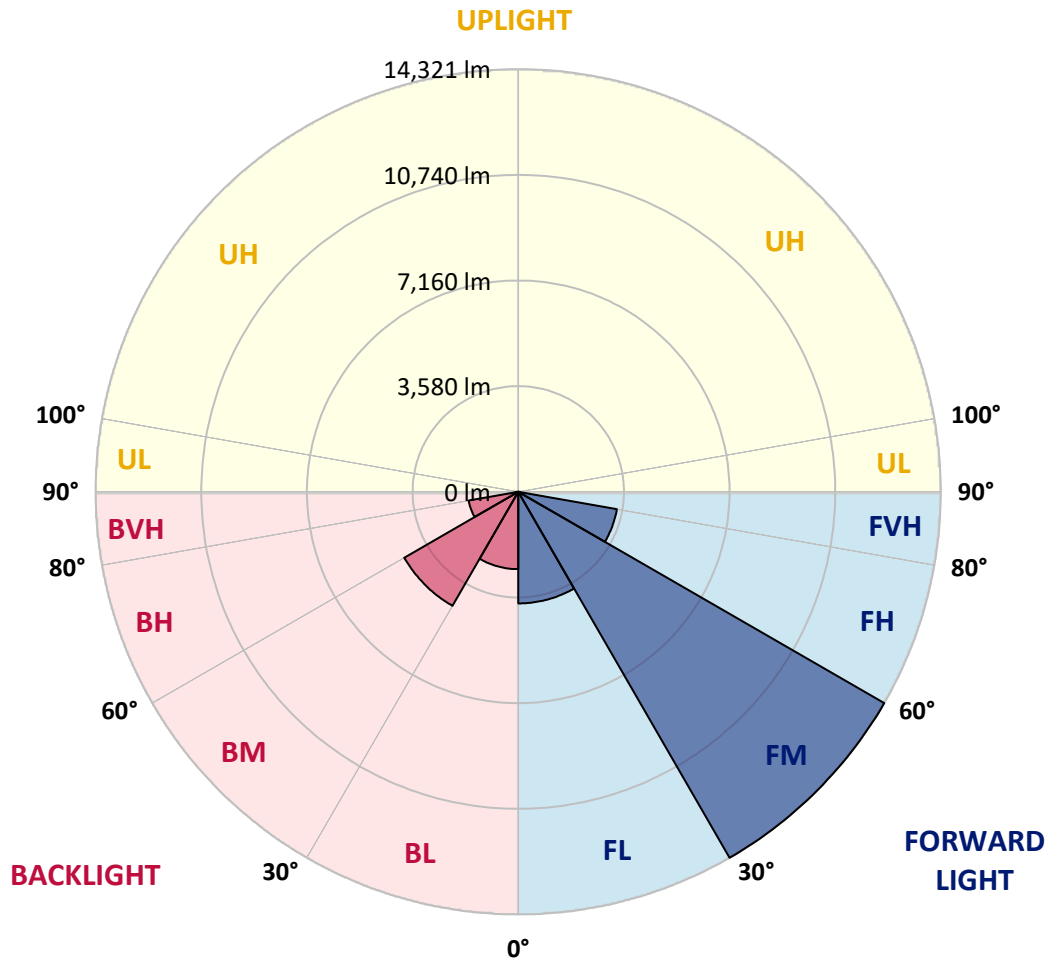
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.3	12.4			
FM (30°-60°)	14320.6	47.0			
FH (60°-80°)	3392.7	11.1			G2/5000
FVH (80°-90°)	64.7	0.2			G1/100
BL (0°-30°)	2620.4	8.6	B4/5000		
BM (30°-60°)	4461.4	14.7	B3/5000		
BH (60°-80°)	1706.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	96.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3
2.5°	9947.3	9861.4	9912.2	9892.7	10052.8	10099.6	10076.2	10095.7	10185.5	10142.6	10052.8
5°	9295.1	9416.1	9439.6	9498.2	9591.9	9775.4	9920.0	9959.0	10002.0	10201.2	10181.7
7.5°	8701.5	8783.5	8740.5	8912.3	9115.5	9412.2	9588.0	9619.2	10013.7	10123.0	10205.1
10°	8326.5	8244.5	8439.8	8486.6	8717.1	9056.9	9267.7	9396.6	9755.9	10189.4	10240.2
12.5°	7978.9	7951.6	8068.7	8201.5	8459.3	8810.8	9025.6	9076.4	9631.0	10087.9	10326.1
15°	7721.2	7689.9	7807.1	7904.7	8205.4	8517.9	8791.3	8935.8	9494.3	10029.3	10251.9
17.5°	7518.1	7514.1	7580.5	7756.3	8064.8	8326.5	8767.9	8775.6	9424.0	10119.2	10314.4
20°	7506.4	7502.5	7514.1	7709.4	7990.7	8310.9	8693.6	8764.0	9424.0	10056.6	10318.3
22.5°	7604.0	7541.5	7611.8	7736.8	7939.9	8338.2	8721.0	8877.2	9650.5	10365.2	10494.1
25°	7760.2	7775.8	7814.9	7857.9	7975.0	8400.7	8963.1	9092.0	9916.1	10630.8	10736.2
27.5°	8045.3	8037.5	8053.2	8076.6	8178.1	8459.3	9060.7	9392.7	10470.7	11103.3	10997.9
30°	8463.2	8435.9	8498.4	8580.3	8486.6	8646.7	9384.9	9634.9	10986.2	11579.8	11290.8
32.5°	8842.0	8943.6	9060.7	9095.9	8982.7	9013.9	9814.5	10068.4	11415.7	12165.6	11650.1
35°	9314.6	9396.6	9552.8	9662.2	9642.6	9548.9	10400.4	10736.2	12036.7	12595.3	12028.9
37.5°	9775.4	9873.1	10130.8	10455.0	10275.4	10232.4	11025.2	11302.5	12228.1	12825.6	12306.3
40°	10517.5	10513.6	10958.8	11126.7	11286.9	11212.7	11673.5	11767.2	12329.7	12774.9	12314.0
42.5°	11388.4	11333.8	11786.8	12048.5	12255.4	12263.3	12349.2	12317.9	12376.5	12517.1	12232.0
45°	12216.4	12333.6	12790.5	13259.2	13466.2	13489.6	12919.3	12860.8	12458.5	12442.9	12075.8
47.5°	13227.9	13255.3	13630.2	14247.2	14727.6	14563.6	13657.6	13528.7	12817.9	12938.9	12337.5
50°	13286.5	13489.6	13825.4	14551.9	16028.2	15985.2	14614.4	14372.2	13395.9	13641.9	13067.8
52.5°	12060.2	12013.3	12411.6	13598.9	15930.5	17399.0	16200.0	15622.0	14637.8	14450.3	14251.1
55°	9189.6	9299.0	9650.5	10849.5	13833.3	17418.5	18359.7	17887.2	15965.7	15645.4	15415.0
56°	8060.9	8076.6	8408.6	9502.1	12622.6	16797.5	18769.8	18387.1	16625.7	16137.5	15786.0
57.5°	6682.3	6592.5	6764.3	7361.8	10654.2	15485.3	18320.7	18695.6	17399.0	16668.7	16180.5
60°	5260.7	5241.2	5170.9	5280.2	6733.1	11665.7	15251.0	16094.6	17320.9	16168.8	15497.0
62.5°	4296.0	4198.4	4339.0	4495.2	4678.8	7236.9	10716.7	11212.7	13751.3	12907.7	11642.3
65°	3331.4	3284.5	3460.2	3968.0	4077.3	4596.8	6104.3	6487.0	8119.6	7975.0	7022.1
67.5°	2292.5	2300.4	2452.7	3226.0	3780.6	3733.7	3737.6	3936.8	4237.4	3147.8	2741.7
70°	1452.9	1448.9	1530.9	2077.7	3042.3	3073.6	2917.4	2858.8	2710.4	1640.3	1737.9
72.5°	933.4	906.1	949.1	1148.2	1573.9	1819.9	1874.7	1909.8	1570.0	1288.8	1398.2
75°	527.3	499.9	484.3	535.0	621.0	718.6	788.9	812.4	910.0	976.4	1035.0
77.5°	160.1	144.5	175.8	234.4	308.5	414.0	503.8	519.4	613.2	691.3	749.9
80°	70.3	78.1	109.4	156.2	218.7	292.9	355.4	378.8	441.3	499.9	515.5
82.5°	43.0	46.9	74.2	105.5	152.3	207.0	253.8	261.7	324.2	371.0	382.7
85°	15.7	19.5	39.1	62.5	97.6	132.8	132.8	144.5	132.8	132.8	144.5
87.5°	0.0	0.0	3.9	7.8	7.8	11.7	15.7	15.7	19.5	23.4	27.3
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°	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3	10072.3
2.5°	10099.6	10080.1	10048.9	9935.6	9923.9	9888.7	9693.5	9662.2	9693.5	9599.7	9607.5
5°	10080.1	10138.7	9904.3	9791.1	9580.2	9427.9	9252.1	9162.3	9002.2	8900.6	9013.9
7.5°	10166.0	10142.6	9849.7	9603.7	9287.2	8900.6	8592.1	8416.3	8135.1	8057.1	8115.6
10°	10134.8	10009.8	9666.1	9342.0	8744.4	8404.6	7904.7	7420.4	7154.9	7018.2	6998.7
12.5°	10091.8	10056.6	9482.5	8924.1	8295.3	7580.5	6877.6	6420.6	5987.1	5799.7	5827.0
15°	10142.6	9845.8	9138.9	8432.0	7596.2	6658.9	5901.2	5311.5	5010.7	4889.7	4889.7
17.5°	10119.2	9744.2	8974.8	7881.3	6822.9	5713.7	4881.8	4526.4	4401.5	4401.5	4436.6
20°	10130.8	9810.6	8642.8	7330.6	5909.0	4811.5	4206.2	4077.3	4132.0	4151.5	4171.0
22.5°	10197.2	9591.9	8318.7	6725.3	5061.5	4116.4	3819.6	3823.5	3921.1	4026.6	4007.0
25°	10279.3	9506.0	7924.3	6123.8	4413.2	3776.6	3682.9	3671.2	3745.4	3800.1	3807.9
27.5°	10209.0	9357.6	7522.0	5374.0	3882.0	3550.1	3530.5	3538.4	3561.8	3671.2	3636.0
30°	10439.4	9400.5	7018.2	4745.2	3589.1	3475.9	3452.5	3440.7	3475.9	3507.1	3479.8
32.5°	10724.5	9248.2	6643.3	4139.8	3444.7	3421.2	3374.3	3358.8	3378.3	3347.0	3362.6
35°	10849.5	9220.8	6155.1	3706.3	3331.4	3311.9	3284.5	3280.6	3284.5	3257.2	3233.8
37.5°	10919.8	9349.7	5596.6	3507.1	3261.1	3280.6	3218.1	3210.3	3140.0	3155.6	3167.4
40°	11040.8	9150.6	5143.5	3315.8	3218.1	3179.1	3124.4	3112.7	3065.8	3038.5	3065.8
42.5°	10865.1	9092.0	4698.3	3233.8	3155.6	3112.7	3073.6	3007.3	2991.6	2968.2	2952.5
45°	10724.5	8756.1	4299.9	3132.2	3081.4	3058.0	2983.8	2913.5	2854.9	2878.4	2843.2
47.5°	10829.9	8639.0	3905.5	3046.3	2979.9	2952.5	2878.4	2823.7	2765.1	2737.8	2729.9
50°	11251.7	8857.7	3573.5	2983.8	2894.0	2878.4	2780.7	2718.3	2663.5	2644.0	2651.9
52.5°	12259.4	9455.2	3347.0	2854.9	2812.0	2741.7	2686.9	2608.9	2573.7	2511.2	2550.3
55°	13536.4	10427.7	3288.4	2733.8	2710.4	2647.9	2573.7	2515.2	2448.8	2397.9	2386.3
56°	13946.6	10892.4	3241.5	2686.9	2647.9	2612.8	2515.2	2480.0	2374.5	2362.9	2355.0
57.5°	14278.5	11302.5	3249.4	2597.1	2558.1	2526.8	2468.3	2382.4	2312.0	2269.1	2288.6
60°	13528.7	10580.0	3101.0	2460.5	2452.7	2394.1	2312.0	2273.0	2187.1	2136.3	2124.6
62.5°	10056.6	7182.2	2515.2	2284.7	2280.8	2218.3	2124.6	2081.6	2066.0	1995.7	1995.7
65°	5791.9	4503.0	2175.3	2140.2	2108.9	2046.4	1952.7	1917.6	1878.6	1855.1	1835.6
67.5°	2472.2	2335.5	1976.2	1972.3	1937.1	1859.0	1765.3	1710.6	1659.8	1613.0	1636.4
70°	1792.6	1819.9	1784.8	1765.3	1722.3	1624.7	1542.7	1476.3	1398.2	1367.0	1390.4
72.5°	1421.6	1480.2	1530.9	1534.8	1484.1	1370.8	1281.0	1191.2	1105.3	1062.3	1081.8
75°	1078.0	1116.9	1167.8	1179.4	1105.3	1027.1	941.2	847.5	781.1	730.3	738.1
77.5°	777.2	769.4	816.3	808.4	773.3	718.6	640.5	554.6	480.4	433.5	437.4
80°	531.1	542.9	570.2	566.3	523.4	488.2	429.6	359.3	304.7	265.6	257.8
82.5°	371.0	390.6	414.0	394.5	359.3	324.2	281.2	230.4	187.5	156.2	148.4
85°	132.8	152.3	175.8	187.5	199.2	191.4	160.1	128.9	93.7	78.1	74.2
87.5°	27.3	31.2	35.2	35.2	35.2	31.2	27.3	27.3	23.4	11.7	11.7
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)