

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: P650955

Luminaire Tested: **GALN-SA6C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650955  
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-SA6C-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA 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: 29717.6 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

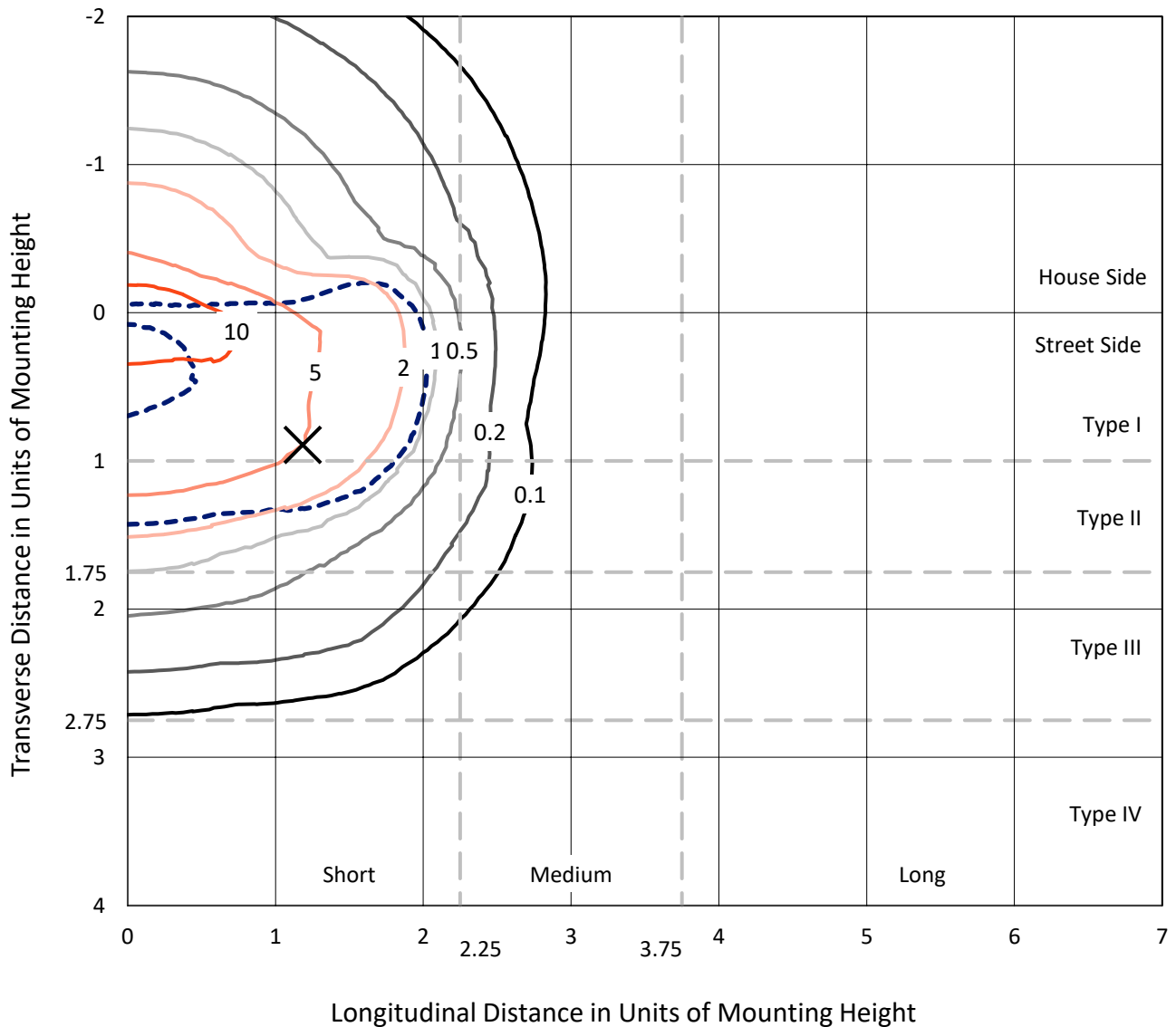
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

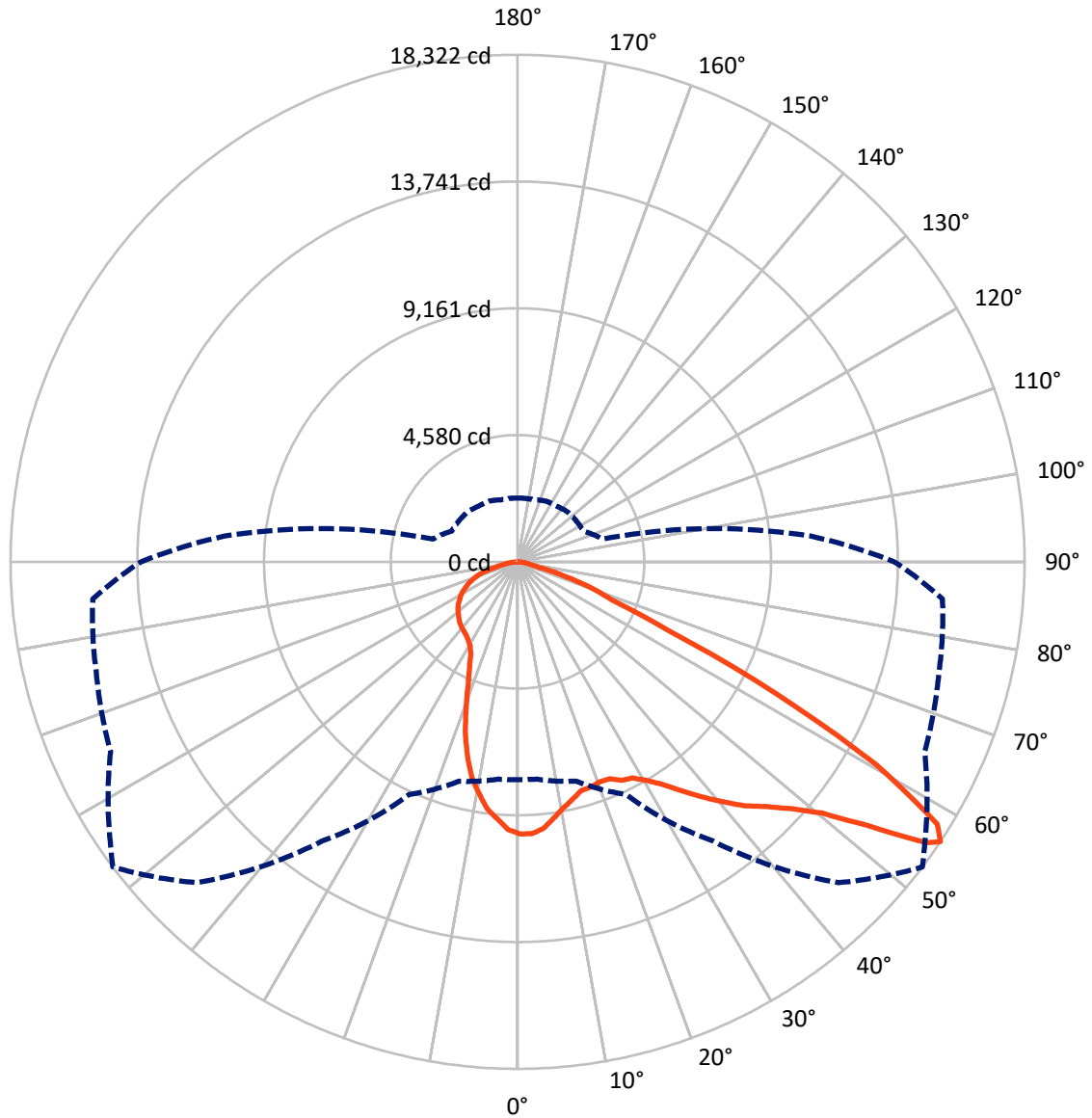
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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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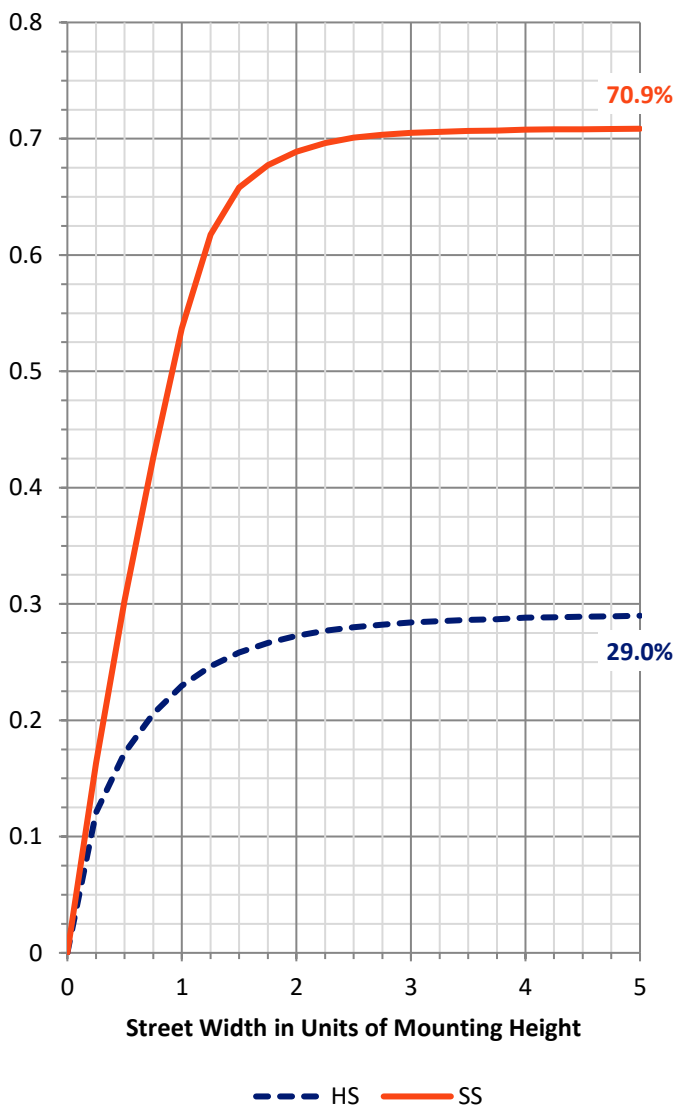
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8672.2	0.0	8672.2
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	21045.3	0.0	21045.3
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	29717.6	0.0	29717.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	870.4	2.9
10°-20°	2173.9	7.3
20°-30°	3205.5	10.8
30°-40°	4580.1	15.4
40°-50°	6303.9	21.2
50°-60°	7449.5	25.1
60°-70°	3970.1	13.4
70°-80°	1007.2	3.4
80°-90°	157.1	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°	29717.6	100.0
0°-180°	29717.6	100.0

**Coefficient of Utilization**



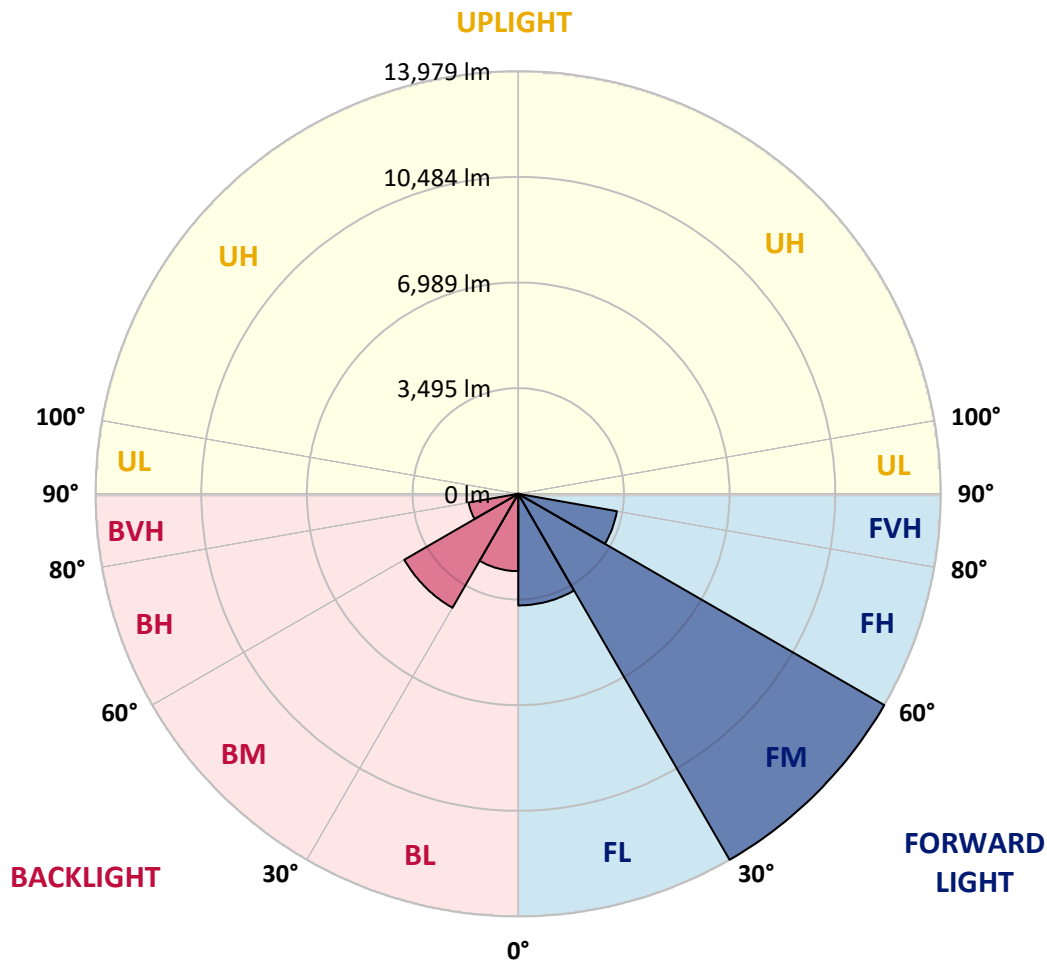
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3692.0	12.4			
FM (30°-60°)	13978.6	47.0			
FH (60°-80°)	3311.7	11.1			G2/5000
FVH (80°-90°)	63.1	0.2			G1/100
BL (0°-30°)	2557.8	8.6	B4/5000		
BM (30°-60°)	4354.9	14.7	B3/5000		
BH (60°-80°)	1665.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	93.9	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°	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7
2.5°	9709.8	9625.9	9675.5	9656.4	9812.7	9858.5	9835.6	9854.6	9942.3	9900.3	9812.7
5°	9073.1	9191.3	9214.2	9271.4	9362.9	9542.0	9683.1	9721.2	9763.1	9957.5	9938.5
7.5°	8493.7	8573.7	8531.8	8699.5	8897.8	9187.5	9359.1	9389.5	9774.5	9881.3	9961.4
10°	8127.7	8047.6	8238.3	8284.0	8508.9	8840.6	9046.4	9172.2	9523.0	9946.1	9995.7
12.5°	7788.4	7761.7	7876.0	8005.6	8257.3	8600.4	8810.1	8859.6	9401.0	9847.0	10079.6
15°	7536.8	7506.3	7620.6	7715.9	8009.5	8314.5	8581.3	8722.3	9267.6	9789.8	10007.1
17.5°	7338.6	7334.7	7399.5	7571.1	7872.3	8127.7	8558.4	8566.1	9198.9	9877.5	10068.1
20°	7327.1	7323.3	7334.7	7525.4	7799.9	8112.5	8486.0	8554.7	9198.9	9816.5	10071.9
22.5°	7422.4	7361.4	7430.1	7552.0	7750.2	8139.1	8512.7	8665.2	9420.0	10117.7	10243.5
25°	7574.9	7590.2	7628.3	7670.2	7784.5	8200.1	8749.1	8874.9	9679.2	10376.9	10479.8
27.5°	7853.2	7845.6	7860.8	7883.7	7982.8	8257.3	8844.4	9168.4	10220.6	10838.1	10735.3
30°	8261.1	8234.4	8295.5	8375.4	8284.0	8440.3	9160.8	9404.7	10723.8	11303.3	11021.1
32.5°	8630.9	8730.0	8844.4	8878.7	8768.1	8798.6	9580.2	9827.9	11143.2	11875.1	11371.9
35°	9092.1	9172.2	9324.8	9431.5	9412.4	9320.9	10152.0	10479.8	11749.3	12294.4	11741.7
37.5°	9542.0	9637.4	9888.9	10205.4	10030.0	9988.1	10761.9	11032.6	11936.1	12519.4	12012.3
40°	10266.3	10262.6	10697.1	10861.0	11017.4	10944.9	11394.8	11486.3	12035.2	12469.8	12020.0
42.5°	11116.5	11063.1	11505.3	11760.7	11962.8	11970.4	12054.3	12023.8	12081.0	12218.2	11939.9
45°	11924.6	12039.0	12485.1	12942.5	13144.6	13167.5	12610.9	12553.7	12161.0	12145.8	11787.5
47.5°	12912.0	12938.7	13304.7	13907.0	14375.9	14215.8	13331.4	13205.6	12511.7	12629.9	12042.9
50°	12969.2	13167.5	13495.3	14204.4	15645.4	15603.5	14265.4	14029.0	13076.0	13316.1	12755.7
52.5°	11772.1	11726.4	12115.3	13274.2	15550.1	16983.5	15813.2	15248.9	14288.3	14105.3	13910.8
55°	8970.2	9076.9	9420.0	10590.4	13502.9	17002.6	17921.3	17460.0	15584.4	15271.8	15046.9
56°	7868.5	7883.7	8207.7	9275.1	12321.2	16396.4	18321.6	17947.9	16228.7	15752.2	15409.1
57.5°	6522.7	6435.1	6602.8	7186.1	10399.8	15115.5	17883.2	18249.1	16983.5	16270.6	15794.1
60°	5135.1	5116.1	5047.4	5154.2	6572.2	11387.1	14886.8	15710.2	16907.2	15782.6	15126.9
62.5°	4193.5	4098.1	4235.4	4387.9	4567.1	7064.1	10460.8	10944.9	13422.9	12599.4	11364.3
65°	3251.8	3206.1	3377.6	3873.2	3979.9	4487.0	5958.5	6332.1	7925.7	7784.5	6854.4
67.5°	2237.8	2245.4	2394.1	3148.9	3690.2	3644.5	3648.3	3842.7	4136.3	3072.7	2676.1
70°	1418.2	1414.3	1494.4	2028.1	2969.7	3000.3	2847.7	2790.5	2645.7	1601.1	1696.5
72.5°	911.1	884.5	926.4	1120.8	1536.3	1776.5	1829.8	1864.2	1532.6	1258.1	1364.8
75°	514.7	487.9	472.7	522.3	606.1	701.5	770.1	793.0	888.3	953.0	1010.2
77.5°	156.3	141.0	171.6	228.8	301.2	404.1	491.8	507.0	598.5	674.7	731.9
80°	68.6	76.3	106.7	152.5	213.4	285.9	346.9	369.8	430.8	487.9	503.3
82.5°	42.0	45.8	72.4	102.9	148.7	202.0	247.8	255.4	316.4	362.1	373.6
85°	15.2	19.1	38.1	61.0	95.3	129.6	129.6	141.0	129.6	129.6	141.0
87.5°	0.0	0.0	3.8	7.7	7.7	11.4	15.2	15.2	19.1	22.9	26.7
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°	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7	9831.7
2.5°	9858.5	9839.4	9808.8	9698.3	9686.9	9652.6	9461.9	9431.5	9461.9	9370.5	9378.1
5°	9839.4	9896.6	9667.8	9557.3	9351.4	9202.7	9031.2	8943.5	8787.2	8688.0	8798.6
7.5°	9923.2	9900.3	9614.5	9374.3	9065.5	8688.0	8386.9	8215.4	7940.9	7864.6	7921.8
10°	9892.8	9770.7	9435.3	9118.9	8535.6	8204.0	7715.9	7243.3	6984.0	6850.6	6831.5
12.5°	9850.8	9816.5	9256.1	8710.9	8097.1	7399.5	6713.4	6267.3	5844.2	5661.2	5687.9
15°	9900.3	9610.6	8920.7	8230.6	7414.8	6499.8	5760.3	5184.6	4891.1	4772.9	4772.9
17.5°	9877.5	9511.5	8760.5	7693.0	6660.0	5577.3	4765.3	4418.4	4296.4	4296.4	4330.7
20°	9888.9	9576.3	8436.5	7155.6	5767.9	4696.6	4105.8	3979.9	4033.4	4052.4	4071.4
22.5°	9953.7	9362.9	8120.0	6564.7	4940.6	4018.1	3728.3	3732.2	3827.5	3930.4	3911.3
25°	10033.8	9279.0	7735.0	5977.6	4307.9	3686.4	3594.9	3583.5	3655.9	3709.3	3717.0
27.5°	9965.2	9134.1	7342.4	5245.7	3789.4	3465.3	3446.2	3453.9	3476.8	3583.5	3549.2
30°	10190.1	9176.1	6850.6	4631.9	3503.4	3392.8	3370.0	3358.6	3392.8	3423.4	3396.7
32.5°	10468.3	9027.4	6484.6	4041.0	3362.4	3339.5	3293.8	3278.6	3297.6	3267.1	3282.3
35°	10590.4	9000.7	6008.1	3617.8	3251.8	3232.8	3206.1	3202.3	3206.1	3179.4	3156.5
37.5°	10659.0	9126.4	5463.0	3423.4	3183.2	3202.3	3141.3	3133.7	3065.0	3080.2	3091.7
40°	10777.2	8932.1	5020.7	3236.6	3141.3	3103.1	3049.8	3038.4	2992.6	2966.0	2992.6
42.5°	10605.6	8874.9	4586.1	3156.5	3080.2	3038.4	3000.3	2935.4	2920.2	2897.3	2882.0
45°	10468.3	8547.0	4197.3	3057.4	3007.8	2985.0	2912.6	2843.9	2786.7	2809.6	2775.3
47.5°	10571.3	8432.6	3812.3	2973.5	2908.8	2882.0	2809.6	2756.2	2699.0	2672.4	2664.7
50°	10983.0	8646.2	3488.2	2912.6	2824.8	2809.6	2714.3	2653.4	2600.0	2580.9	2588.5
52.5°	11966.6	9229.4	3267.1	2786.7	2744.8	2676.1	2622.8	2546.5	2512.2	2451.3	2489.4
55°	13213.2	10178.6	3209.9	2668.6	2645.7	2584.7	2512.2	2455.0	2390.3	2340.7	2329.2
56°	13613.5	10632.3	3164.2	2622.8	2584.7	2550.4	2455.0	2420.7	2317.8	2306.4	2298.8
57.5°	13937.6	11032.6	3171.7	2535.1	2497.0	2466.5	2409.3	2325.4	2256.8	2214.9	2233.9
60°	13205.6	10327.3	3026.9	2401.7	2394.1	2336.9	2256.8	2218.7	2134.9	2085.3	2073.8
62.5°	9816.5	7010.7	2455.0	2230.2	2226.4	2165.3	2073.8	2031.9	2016.6	1948.1	1948.1
65°	5653.5	4395.5	2123.4	2089.1	2058.6	1997.6	1906.1	1871.8	1833.7	1810.8	1791.8
67.5°	2413.2	2279.7	1929.0	1925.2	1890.9	1814.6	1723.1	1669.7	1620.2	1574.4	1597.3
70°	1749.8	1776.5	1742.2	1723.1	1681.2	1585.9	1505.8	1441.1	1364.8	1334.2	1357.1
72.5°	1387.6	1444.8	1494.4	1498.2	1448.6	1338.1	1250.4	1162.8	1078.8	1037.0	1056.0
75°	1052.2	1090.3	1139.9	1151.3	1078.8	1002.6	918.7	827.3	762.5	712.9	720.5
77.5°	758.7	751.0	796.8	789.1	754.8	701.5	625.2	541.4	468.9	423.2	427.0
80°	518.5	529.9	556.6	552.8	510.8	476.5	419.3	350.7	297.4	259.2	251.6
82.5°	362.1	381.2	404.1	385.0	350.7	316.4	274.5	224.9	183.0	152.5	144.9
85°	129.6	148.7	171.6	183.0	194.4	186.8	156.3	125.8	91.5	76.3	72.4
87.5°	26.7	30.5	34.3	34.3	34.3	30.5	26.7	26.7	22.9	11.4	11.4
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)