

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: P647685

Luminaire Tested: **GALN-SA9D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47935.3 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

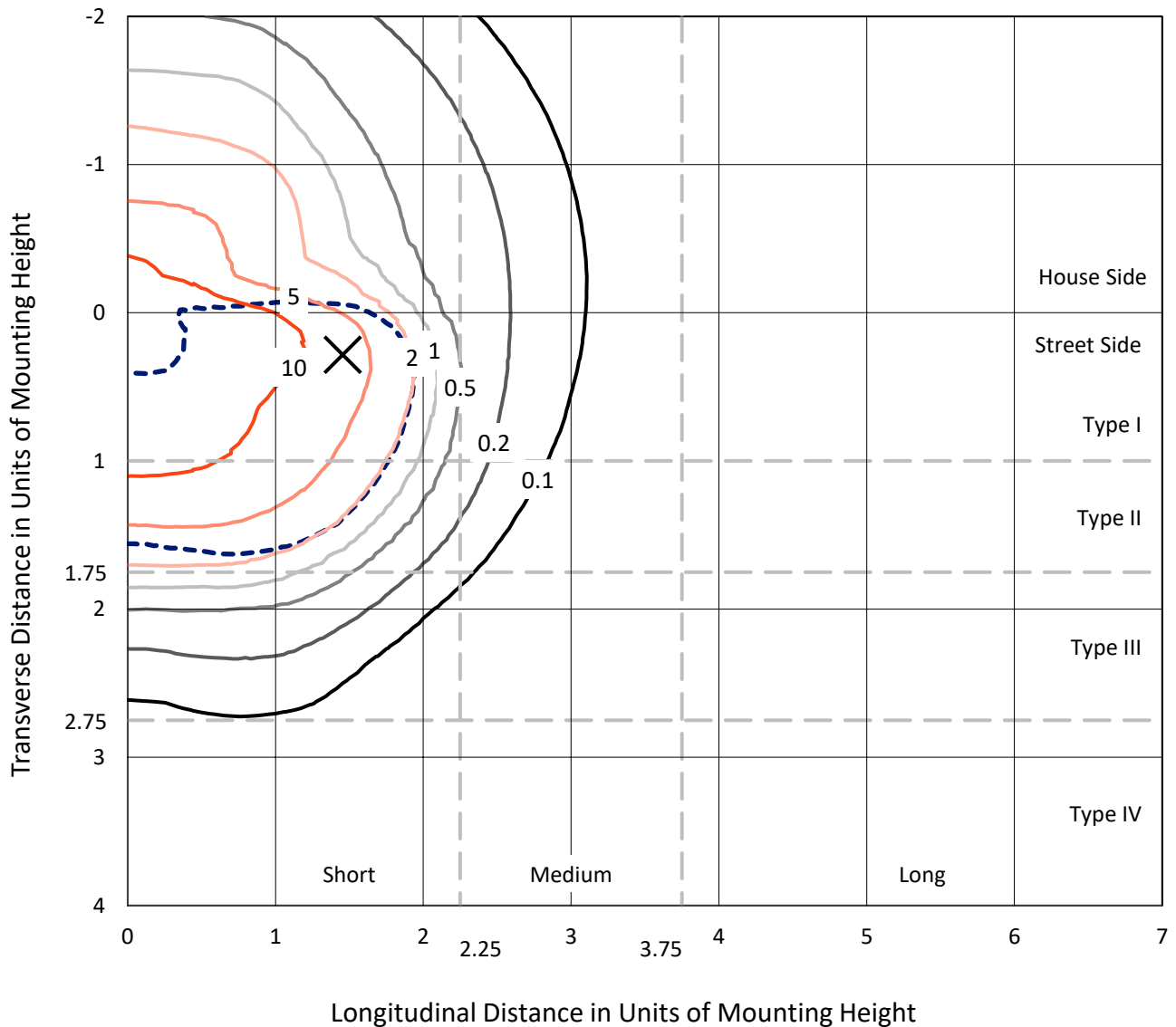
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

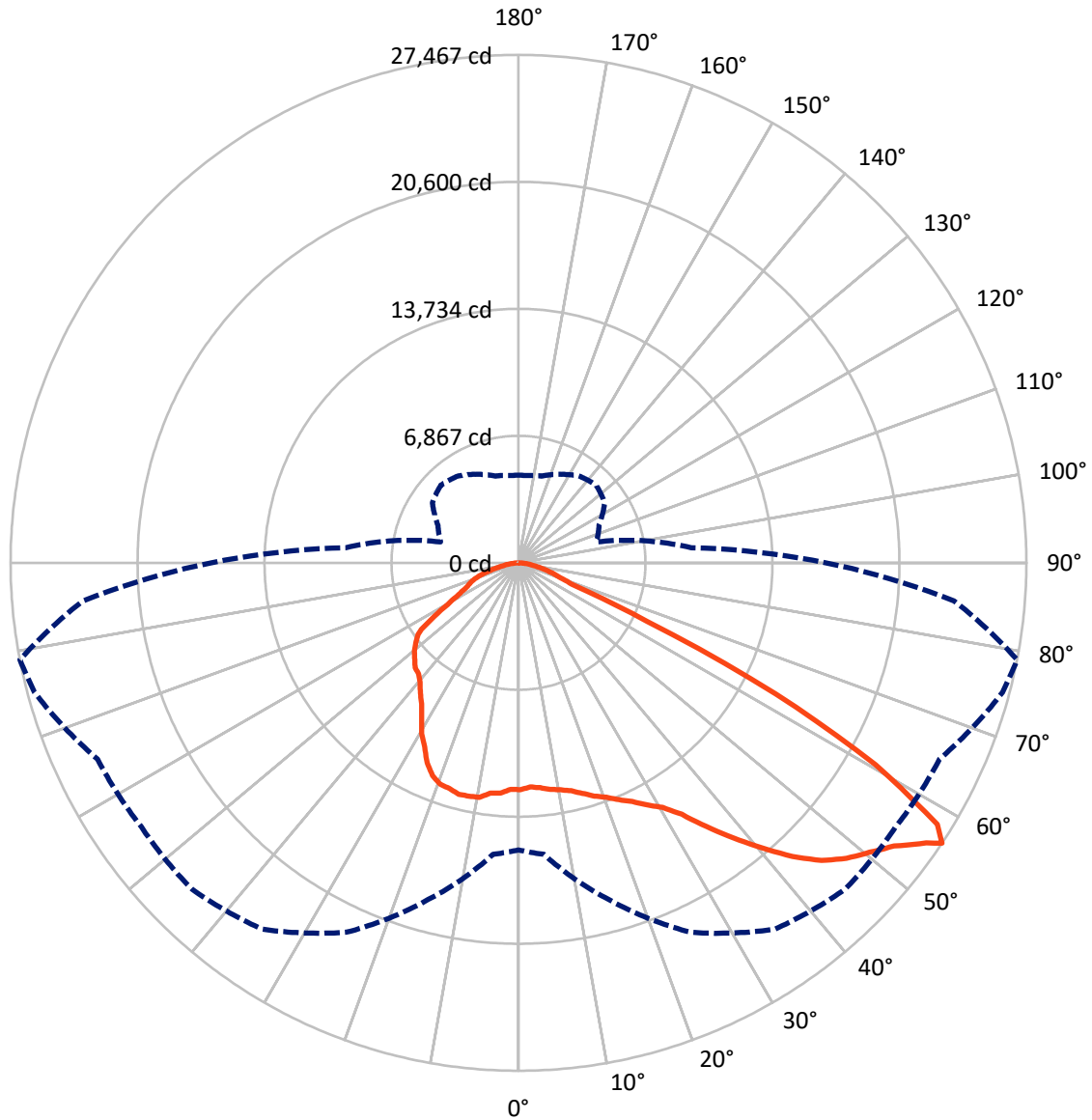
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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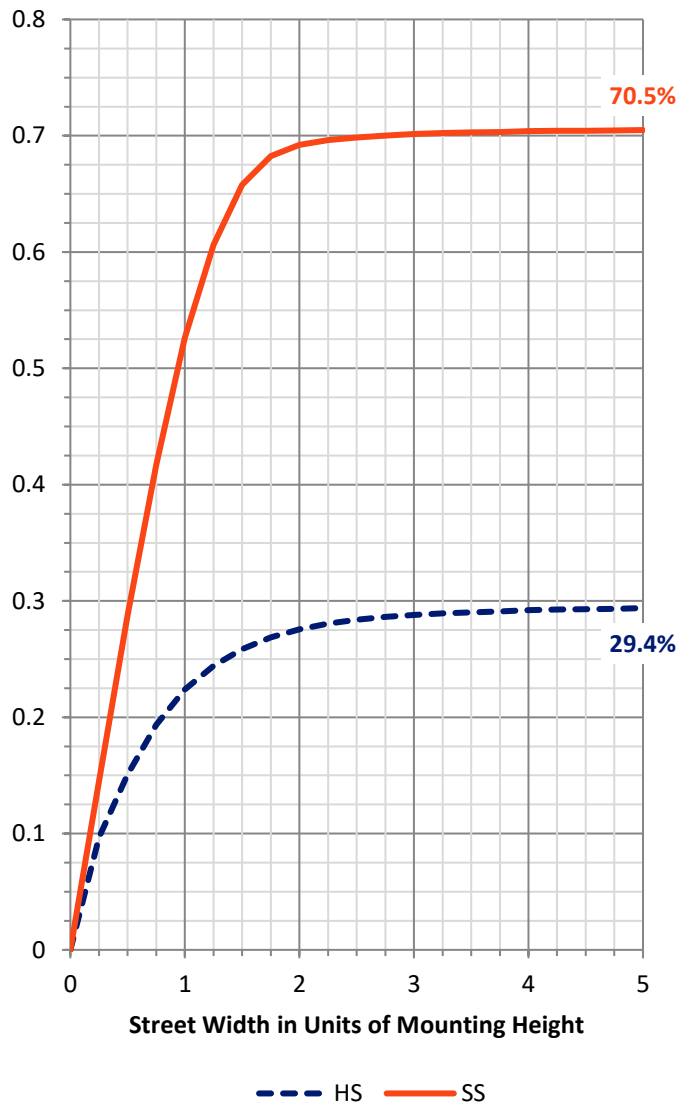
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14156.3	0.0	14156.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	33778.9	0.0	33778.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	47935.3	0.0	47935.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1115.1	2.3
10°-20°	3051.7	6.4
20°-30°	5220.9	10.9
30°-40°	8001.7	16.7
40°-50°	10814.2	22.6
50°-60°	12420.5	25.9
60°-70°	5661.6	11.8
70°-80°	1395.9	2.9
80°-90°	253.7	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°	47935.3	100.0
0°-180°	47935.3	100.0

**Coefficient of Utilization**

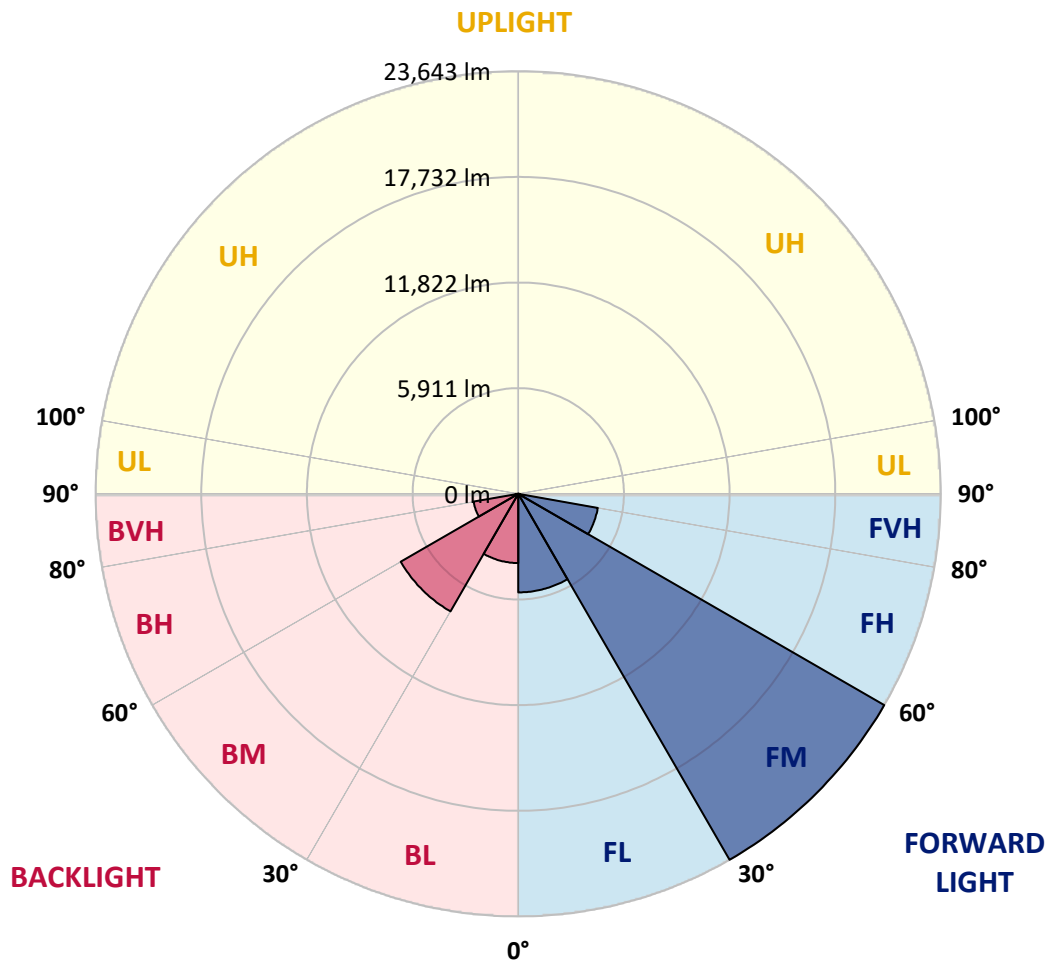


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5515.3	11.5			
FM (30°-60°)	23643.1	49.3			
FH (60°-80°)	4519.2	9.4			G2/5000
FVH (80°-90°)	101.3	0.2			G2/225
BL (0°-30°)	3872.4	8.1	B4/5000		
BM (30°-60°)	7593.3	15.8	B4/8500		
BH (60°-80°)	2538.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	152.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8
2.5°	11667.6	11637.7	11709.5	11763.2	11828.9	11912.4	11954.2	11978.1	12187.1	12133.4	12294.6
5°	11416.8	11339.2	11393.0	11434.8	11548.2	11649.7	11763.2	11942.3	12133.4	12217.0	12414.0
7.5°	11195.9	11154.1	11142.2	11172.0	11327.3	11458.7	11655.7	11918.4	12228.9	12366.2	12479.7
10°	10831.6	10772.0	10861.5	11058.5	11100.4	11375.0	11601.9	11978.1	12246.8	12485.6	12820.1
12.5°	10670.4	10610.7	10628.7	10742.1	11034.7	11297.4	11566.1	11990.1	12557.3	12652.9	13100.7
15°	10927.2	10867.5	10885.4	10855.5	11136.2	11273.6	11697.5	12228.9	12772.3	12933.5	13411.2
17.5°	11512.4	11518.3	11440.7	11375.0	11309.3	11601.9	11894.6	12372.2	12855.8	13261.9	13620.2
20°	12629.0	12431.9	12276.7	11906.5	11805.0	11930.3	12300.5	12760.3	13196.2	13530.6	13936.6
22.5°	13488.8	13506.8	13285.8	12676.8	12455.8	12509.5	12826.0	13202.2	13679.9	13918.8	14384.5
25°	14736.8	14611.4	14372.5	13888.9	13393.3	13435.1	13668.0	14008.3	14139.6	14306.9	14814.4
27.5°	15877.3	15913.1	15441.4	14987.6	14372.5	14253.1	14671.1	14730.8	14509.9	14826.3	14999.5
30°	17035.7	17005.8	16695.4	16163.9	15560.8	15584.7	15769.8	15477.2	15172.7	15345.9	15465.3
32.5°	18235.9	17895.5	17883.6	17405.9	16946.1	16725.2	16498.3	16641.6	16169.9	16205.7	16092.2
35°	19197.2	19245.0	18970.4	18630.0	18403.1	18015.0	17394.0	17650.7	17561.1	17519.3	17029.7
37.5°	19895.9	19710.8	19848.1	19734.7	19519.6	19036.0	18391.1	18635.9	18677.8	18880.8	18313.5
40°	20469.1	20391.4	20755.7	20815.4	20666.1	19621.2	18462.7	19191.3	19818.2	20260.1	19585.3
42.5°	20743.8	20911.0	21293.1	21752.9	21418.5	20301.9	18833.0	19615.2	21012.4	21711.1	20791.5
45°	21114.0	20899.0	21466.3	22308.2	22314.2	20875.1	19191.3	20188.5	21944.0	22959.0	21615.6
47.5°	20737.8	20845.3	21430.5	22499.3	22773.9	21478.2	20158.6	21000.5	22971.0	23872.7	22379.9
50°	19895.9	20110.8	21179.7	22290.3	23120.3	22117.1	21269.3	21878.3	23920.4	24607.1	22505.2
52.5°	19018.1	19137.5	20809.5	22451.5	23275.5	22941.1	22756.0	23090.4	25078.8	25437.1	22660.5
55°	16629.7	17196.9	19585.3	22379.9	24033.9	24428.0	24284.7	24774.3	26392.5	26750.7	23508.4
56°	15525.0	15823.6	18850.9	22045.4	24183.1	24971.4	24899.7	25120.6	27091.1	27467.2	23639.8
57.5°	13482.9	13506.8	16074.4	20564.6	23621.9	25132.6	25060.9	25234.1	26953.8	26697.0	22487.4
60°	8437.2	8807.4	10939.1	15817.5	20086.9	23317.3	23723.3	22332.1	22726.2	22182.8	17495.4
62.5°	4370.9	4317.1	5732.3	9249.3	13333.6	16695.4	17071.5	17005.8	16396.8	15602.6	11428.7
65°	2179.5	2191.4	2997.5	4579.8	6831.0	8741.7	9792.7	9906.1	8288.0	7625.2	5421.8
67.5°	1582.4	1642.0	2155.6	2800.5	3218.4	3600.6	4412.7	4329.1	3278.2	3117.0	2890.1
70°	1230.1	1283.8	1749.5	2137.7	1940.6	1940.6	2113.8	2185.4	2334.7	2400.4	2478.0
72.5°	895.7	937.5	1337.5	1474.9	1271.8	1367.4	1582.4	1749.5	1904.8	1928.7	2018.3
75°	615.0	650.8	877.7	812.0	764.3	943.4	1158.4	1313.6	1427.1	1486.8	1540.6
77.5°	400.0	412.0	501.6	423.9	489.6	609.1	752.4	883.7	997.2	1044.9	1056.9
80°	179.2	197.1	214.9	268.7	340.4	435.9	537.4	644.9	716.5	734.5	770.3
82.5°	101.5	101.5	131.4	191.1	250.8	316.5	388.1	465.7	549.4	567.3	561.3
85°	53.7	53.7	77.6	113.5	155.3	185.1	179.2	185.1	197.1	226.9	221.0
87.5°	17.9	17.9	23.9	23.9	29.8	35.9	29.8	41.8	53.7	53.7	53.7
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°	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8	12264.8
2.5°	12246.8	12300.5	12228.9	12384.2	12384.2	12354.3	12205.0	12252.8	12288.6	12288.6	12318.5
5°	12479.7	12461.8	12509.5	12324.4	12211.0	12169.2	11924.4	11805.0	11703.4	11697.5	11607.9
7.5°	12611.1	12563.3	12545.4	12408.0	11906.5	11601.9	11076.5	10772.0	10706.3	10473.4	10563.0
10°	12820.1	12909.6	12820.1	12073.6	11375.0	10676.4	10162.9	9691.2	9506.1	9356.8	9267.2
12.5°	13250.0	13208.2	12688.7	11679.5	10700.3	9870.3	9106.0	8610.4	8425.3	8293.9	8281.9
15°	13614.2	13405.2	12611.1	11058.5	9649.4	8765.6	8138.7	7786.4	7702.8	7714.7	7768.5
17.5°	13739.6	13596.3	12205.0	10413.7	8867.2	7828.2	7535.6	7481.9	7559.5	7649.0	7672.9
20°	13936.6	13709.8	12037.8	9535.9	7899.8	7243.0	7225.1	7416.2	7559.5	7690.9	7708.7
22.5°	14348.6	13775.4	11494.4	8705.9	7237.0	7069.9	7243.0	7404.2	7625.2	7732.7	7637.1
25°	14468.1	13632.1	10730.2	7708.7	6819.1	6962.4	7147.5	7368.4	7523.6	7583.4	7625.2
27.5°	14569.6	13411.2	9697.1	7046.0	6687.7	6956.4	7147.5	7332.6	7416.2	7469.9	7517.7
30°	14856.3	13345.5	8801.5	6604.1	6604.1	6837.0	7081.8	7129.5	7243.0	7308.7	7392.3
32.5°	14999.5	12891.7	7881.9	6323.4	6520.5	6896.7	6914.6	7004.2	7010.1	7063.8	6974.3
35°	15375.7	12569.3	7028.1	6120.4	6556.3	6837.0	6926.5	6872.8	6580.2	6436.9	6466.7
37.5°	15650.4	12408.0	6413.0	6096.5	6562.3	6902.6	6950.4	6544.4	6239.9	6001.0	6060.7
40°	16390.8	12008.0	5947.3	6054.7	6616.0	6974.3	6843.0	6401.1	5851.8	5606.9	5565.1
42.5°	16958.1	11721.4	5654.7	6006.9	6657.8	7075.8	6789.2	6114.4	5553.2	5326.3	5385.9
45°	17614.9	11655.7	5499.4	6018.9	6729.5	7129.5	6723.5	5893.5	5296.4	5206.9	5188.9
47.5°	17847.8	11184.0	5332.2	5917.4	6711.6	7111.6	6502.6	5726.3	5200.8	5212.8	5260.6
50°	17459.6	10700.3	5206.9	5708.4	6592.2	6950.4	6156.3	5505.4	5147.1	5296.4	5380.0
52.5°	16964.0	10204.7	4950.0	5427.8	6347.3	6699.7	5995.0	5493.4	5093.4	5045.7	5063.5
55°	17113.3	9798.6	4591.8	5045.7	5953.2	6233.9	5815.9	5380.0	4962.0	4782.9	4842.6
56°	16629.7	9380.7	4359.0	4806.8	5684.5	5935.3	5726.3	5278.5	4854.5	4735.1	4735.1
57.5°	15262.2	7977.4	4054.4	4424.7	5117.3	5415.9	5553.2	5218.8	4735.1	4526.1	4532.1
60°	11255.6	5672.6	3636.4	3899.2	4239.5	4478.4	5117.3	5051.6	4436.6	4293.3	4239.5
62.5°	6938.5	4143.9	3337.9	3439.4	3612.5	3809.6	4466.4	4573.9	4120.1	3964.9	3929.0
65°	3887.2	3170.7	3110.9	3152.7	3236.4	3337.9	3708.1	3946.9	3636.4	3397.6	3385.6
67.5°	2842.3	2836.3	2884.1	2919.9	2955.7	2955.7	3045.3	3140.8	3099.0	2908.0	2890.1
70°	2525.8	2543.7	2579.5	2585.5	2597.4	2555.6	2484.0	2454.2	2501.9	2382.5	2358.6
72.5°	2084.0	2143.6	2185.4	2191.4	2125.8	2072.0	1976.4	1875.0	1839.1	1815.2	1809.3
75°	1600.3	1642.0	1660.0	1654.0	1630.1	1552.5	1439.1	1337.5	1271.8	1200.2	1236.0
77.5°	1080.8	1140.5	1170.4	1170.4	1134.5	1015.1	961.4	883.7	818.1	740.4	752.4
80°	758.3	800.1	847.9	842.0	782.2	722.5	644.9	573.2	519.5	459.8	453.8
82.5°	567.3	591.2	615.0	603.1	561.3	501.6	447.8	382.2	322.4	280.6	280.6
85°	203.0	221.0	268.7	280.6	304.5	304.5	256.7	214.9	173.2	143.3	143.3
87.5°	59.7	59.7	65.7	65.7	59.7	65.7	53.7	59.7	65.7	41.8	41.8
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)