

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: P647545

Luminaire Tested: **GALN-SA7D-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647545  
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-SA7D-835-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 35759.6 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

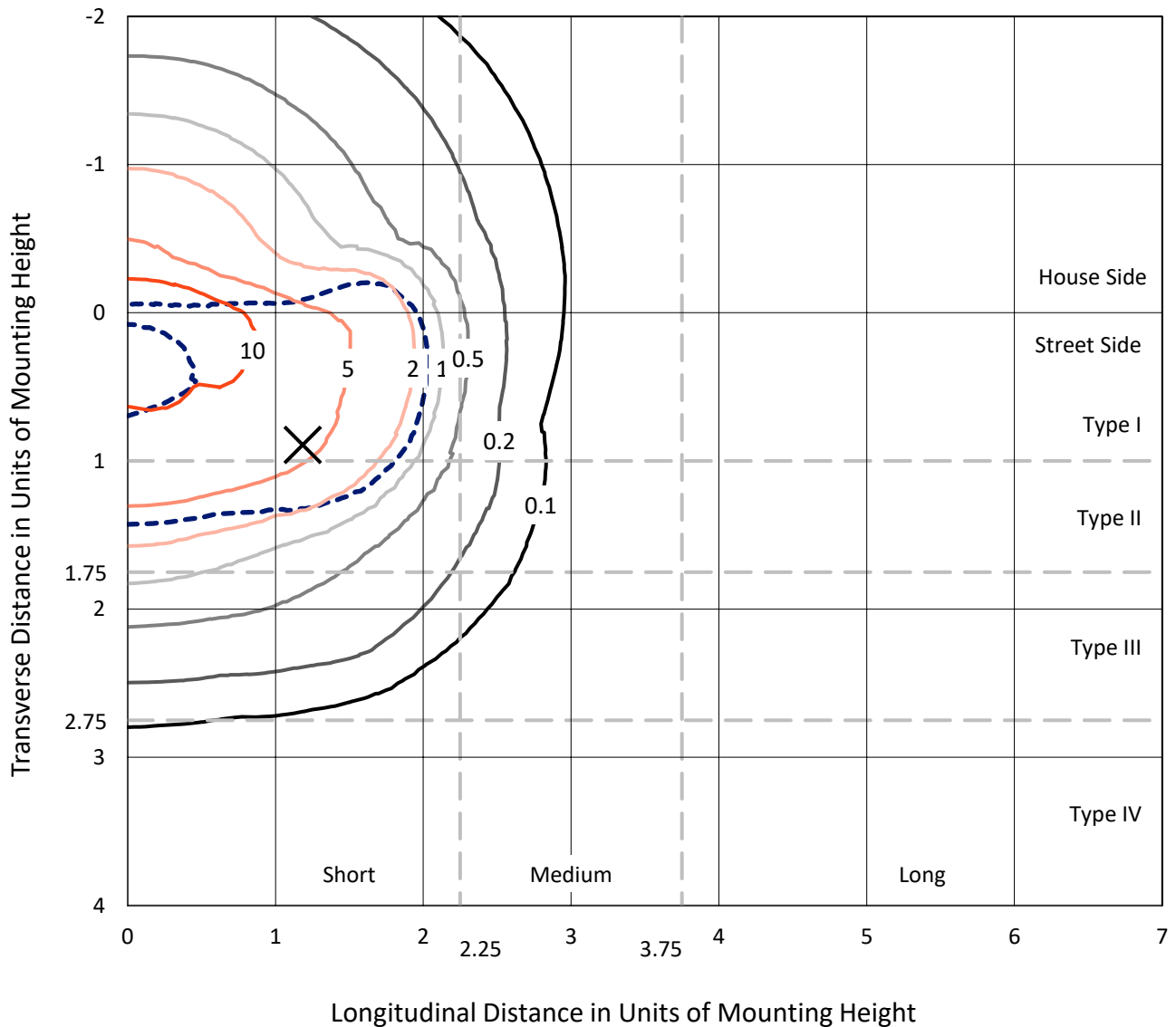
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

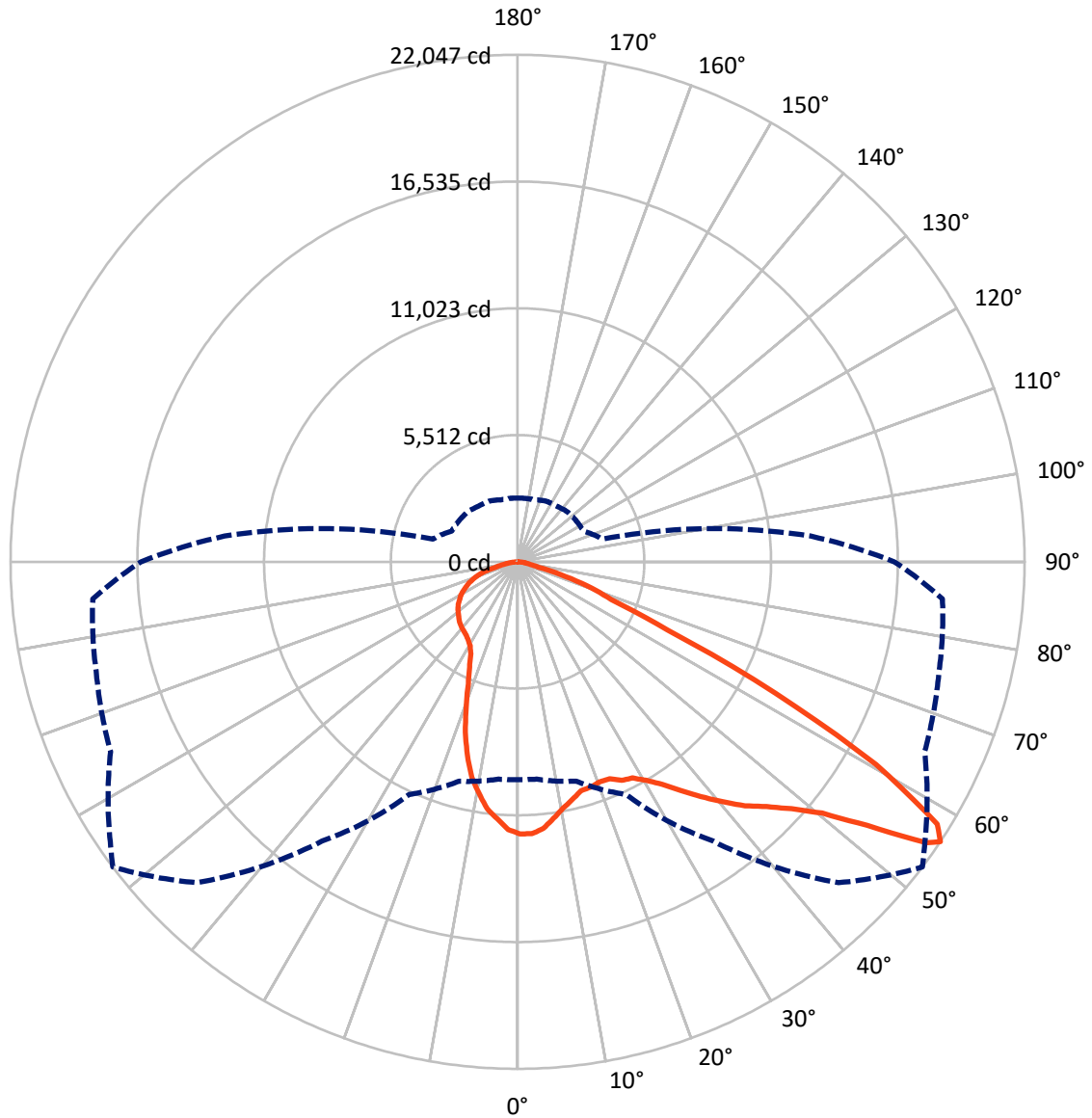
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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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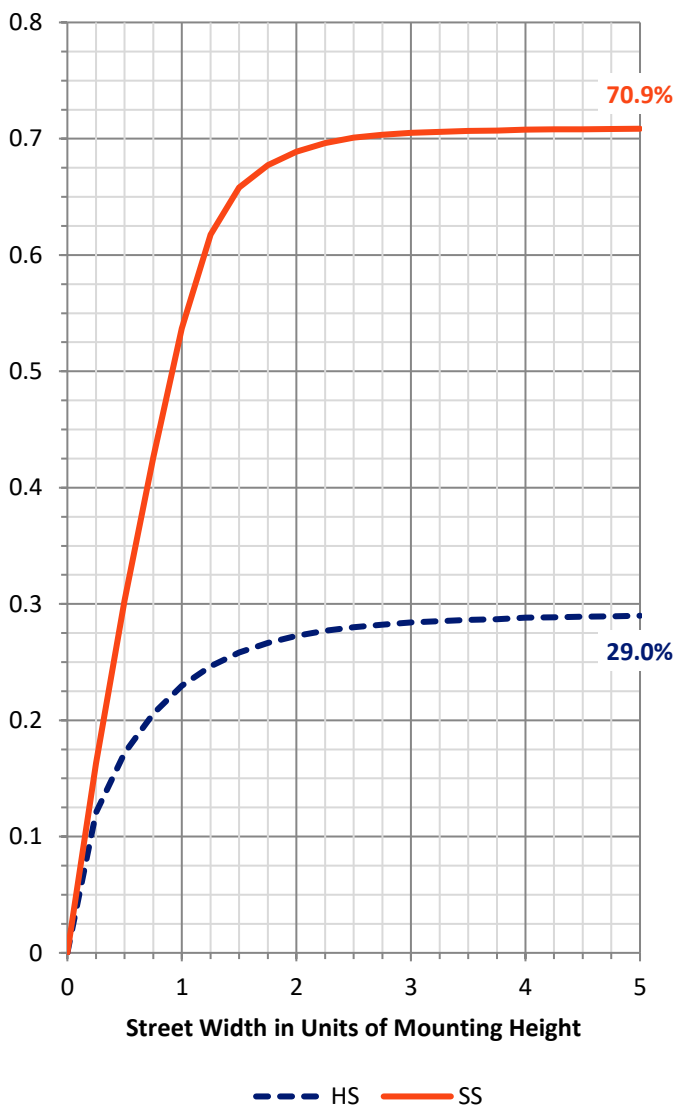
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10435.4	0.0	10435.4
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	25324.2	0.0	25324.2
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	35759.6	0.0	35759.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1047.3	2.9
10°-20°	2615.8	7.3
20°-30°	3857.3	10.8
30°-40°	5511.3	15.4
40°-50°	7585.6	21.2
50°-60°	8964.1	25.1
60°-70°	4777.3	13.4
70°-80°	1212.0	3.4
80°-90°	189.0	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°	35759.6	100.0
0°-180°	35759.6	100.0

**Coefficient of Utilization**



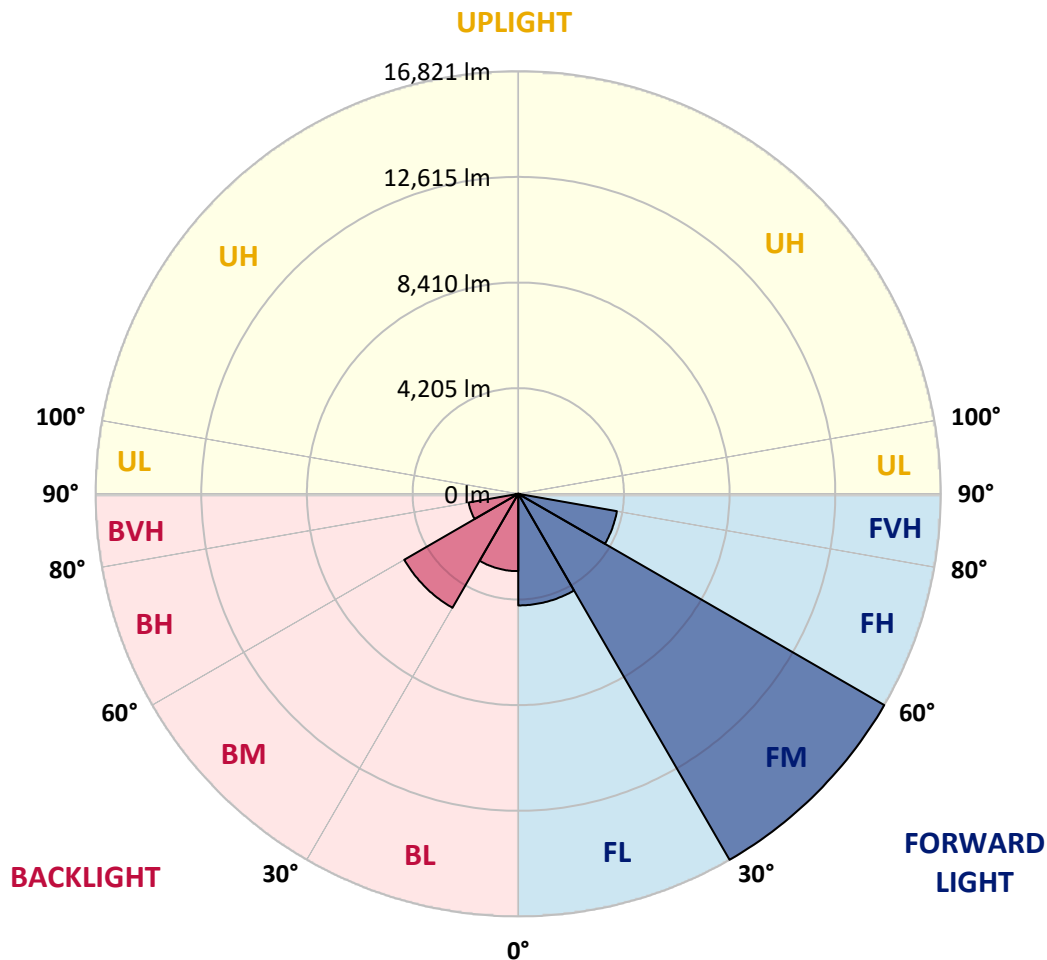
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4442.6	12.4			
FM (30°-60°)	16820.6	47.0			
FH (60°-80°)	3985.0	11.1			G2/5000
FVH (80°-90°)	76.0	0.2			G1/100
BL (0°-30°)	3077.8	8.6	B4/5000		
BM (30°-60°)	5240.3	14.7	B4/8500		
BH (60°-80°)	2004.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	113.0	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7
2.5°	11683.9	11583.0	11642.6	11619.6	11807.7	11862.8	11835.3	11858.2	11963.7	11913.3	11807.7
5°	10917.8	11060.0	11087.5	11156.3	11266.4	11482.1	11651.7	11697.6	11748.1	11982.1	11959.2
7.5°	10220.6	10316.9	10266.4	10468.2	10706.8	11055.4	11261.9	11298.5	11761.9	11890.3	11986.6
10°	9780.1	9683.8	9913.2	9968.2	10238.9	10638.0	10885.7	11037.1	11459.1	11968.3	12028.0
12.5°	9371.9	9339.8	9477.4	9633.3	9936.1	10349.0	10601.3	10660.9	11312.3	11849.1	12128.8
15°	9069.1	9032.5	9170.0	9284.7	9637.9	10004.9	10326.0	10495.8	11151.8	11780.2	12041.7
17.5°	8830.6	8826.0	8904.0	9110.4	9472.8	9780.1	10298.5	10307.7	11069.2	11885.7	12115.1
20°	8816.8	8812.2	8826.0	9055.4	9385.7	9761.8	10211.3	10293.9	11069.2	11812.3	12119.7
22.5°	8931.5	8858.1	8940.7	9087.5	9326.0	9793.9	10243.4	10427.0	11335.3	12174.7	12326.1
25°	9115.0	9133.4	9179.2	9229.7	9367.3	9867.3	10527.9	10679.3	11647.2	12486.7	12610.5
27.5°	9449.9	9440.7	9459.0	9486.6	9605.8	9936.1	10642.5	11032.5	12298.6	13041.7	12917.9
30°	9940.7	9908.6	9982.0	10078.3	9968.2	10156.3	11023.3	11316.9	12904.2	13601.4	13261.9
32.5°	10385.7	10505.0	10642.5	10683.9	10550.8	10587.5	11528.0	11826.1	13408.7	14289.5	13683.9
35°	10940.8	11037.1	11220.5	11349.0	11326.1	11216.0	12216.1	12610.5	14138.1	14794.1	14128.9
37.5°	11482.1	11596.7	11899.5	12280.3	12069.2	12018.7	12950.0	13275.7	14362.9	15064.8	14454.6
40°	12353.6	12349.1	12872.0	13069.3	13257.4	13170.2	13711.5	13821.6	14482.1	15005.1	14463.8
42.5°	13376.6	13312.4	13844.5	14151.9	14395.0	14404.1	14505.1	14468.4	14537.2	14702.3	14367.5
45°	14349.1	14486.8	15023.5	15573.9	15817.1	15844.6	15174.9	15106.0	14633.6	14615.2	14184.0
47.5°	15537.2	15569.3	16009.8	16734.5	17298.7	17106.1	16041.9	15890.4	15055.6	15197.8	14491.3
50°	15606.1	15844.6	16239.1	17092.3	18826.4	18775.9	17165.7	16881.3	15734.5	16023.5	15349.1
52.5°	14165.6	14110.6	14578.5	15973.0	18711.7	20436.5	19028.2	18349.3	17193.3	16973.1	16739.1
55°	10794.0	10922.4	11335.3	12743.6	16248.3	20459.4	21565.0	21009.9	18752.9	18376.8	18106.2
56°	9468.2	9486.6	9876.5	11161.0	14826.2	19730.0	22046.6	21597.1	19528.2	18954.8	18541.9
57.5°	7848.9	7743.4	7945.3	8647.1	12514.2	18188.7	21519.1	21959.5	20436.5	19578.7	19005.3
60°	6179.1	6156.2	6073.6	6202.1	7908.5	13702.3	17913.5	18904.4	20344.8	18991.5	18202.5
62.5°	5046.0	4931.3	5096.5	5280.0	5495.6	8500.3	12587.6	13170.2	16152.0	15161.1	13674.8
65°	3913.0	3857.9	4064.4	4660.7	4789.1	5399.3	7170.0	7619.5	9537.0	9367.3	8248.0
67.5°	2692.7	2701.9	2880.8	3789.1	4440.5	4385.5	4390.0	4624.0	4977.2	3697.4	3220.3
70°	1706.5	1701.9	1798.2	2440.5	3573.5	3610.3	3426.7	3357.9	3183.6	1926.6	2041.4
72.5°	1096.4	1064.3	1114.7	1348.6	1848.7	2137.7	2201.9	2243.2	1844.1	1513.9	1642.3
75°	619.3	587.2	568.8	628.4	729.4	844.1	926.6	954.2	1068.9	1146.9	1215.6
77.5°	188.1	169.8	206.4	275.2	362.4	486.2	591.8	610.1	720.2	812.0	880.8
80°	82.6	91.8	128.4	183.5	256.9	344.1	417.4	445.0	518.3	587.2	605.5
82.5°	50.4	55.0	87.1	123.9	178.9	243.1	298.2	307.3	380.8	435.8	449.5
85°	18.3	22.9	45.9	73.4	114.7	156.0	156.0	169.8	156.0	156.0	169.8
87.5°	0.0	0.0	4.6	9.2	9.2	13.8	18.3	18.3	22.9	27.6	32.1
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°	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7	11830.7
2.5°	11862.8	11839.9	11803.2	11670.1	11656.4	11615.1	11385.7	11349.0	11385.7	11275.6	11284.8
5°	11839.9	11908.6	11633.4	11500.4	11252.6	11073.8	10867.3	10761.9	10573.8	10454.5	10587.5
7.5°	11940.8	11913.3	11569.2	11280.2	10908.6	10454.5	10092.1	9885.7	9555.3	9463.7	9532.5
10°	11904.1	11757.3	11353.6	10972.9	10271.0	9871.9	9284.7	8715.9	8403.9	8243.4	8220.5
12.5°	11853.6	11812.3	11138.0	10482.0	9743.5	8904.0	8078.3	7541.5	7032.4	6812.2	6844.3
15°	11913.3	11564.6	10734.3	9904.0	8922.4	7821.4	6931.4	6238.8	5885.5	5743.3	5743.3
17.5°	11885.7	11445.3	10541.7	9257.2	8014.0	6711.2	5734.1	5316.7	5169.9	5169.9	5211.2
20°	11899.5	11523.3	10151.8	8610.4	6940.6	5651.5	4940.6	4789.1	4853.3	4876.3	4899.2
22.5°	11977.5	11266.4	9771.0	7899.4	5945.2	4835.0	4486.4	4491.0	4605.7	4729.6	4706.6
25°	12073.8	11165.5	9307.7	7192.9	5183.7	4435.9	4325.8	4312.1	4399.2	4463.5	4472.7
27.5°	11991.3	10991.2	8835.1	6312.2	4559.8	4169.9	4146.9	4156.1	4183.6	4312.1	4270.8
30°	12261.9	11041.6	8243.4	5573.6	4215.8	4082.7	4055.2	4041.5	4082.7	4119.4	4087.3
32.5°	12596.7	10862.8	7803.0	4862.6	4046.0	4018.5	3963.5	3945.1	3968.0	3931.4	3949.7
35°	12743.6	10830.7	7229.6	4353.4	3913.0	3890.0	3857.9	3853.4	3857.9	3825.8	3798.3
37.5°	12826.2	10982.0	6573.6	4119.4	3830.4	3853.4	3779.9	3770.8	3688.2	3706.6	3720.3
40°	12968.4	10748.1	6041.5	3894.6	3779.9	3734.0	3669.8	3656.1	3601.0	3568.9	3601.0
42.5°	12761.9	10679.3	5518.5	3798.3	3706.6	3656.1	3610.3	3532.3	3513.9	3486.4	3468.0
45°	12596.7	10284.8	5050.7	3679.0	3619.4	3591.9	3504.7	3422.1	3353.4	3380.8	3339.6
47.5°	12720.6	10147.1	4587.3	3578.1	3500.1	3468.0	3380.8	3316.6	3247.8	3215.7	3206.5
50°	13216.0	10404.0	4197.4	3504.7	3399.2	3380.8	3266.2	3192.8	3128.6	3105.6	3114.8
52.5°	14399.6	11105.9	3931.4	3353.4	3302.9	3220.3	3156.0	3064.3	3023.0	2949.6	2995.5
55°	15899.7	12248.2	3862.5	3211.1	3183.6	3110.2	3023.0	2954.3	2876.3	2816.6	2802.8
56°	16381.3	12794.1	3807.5	3156.0	3110.2	3068.9	2954.3	2912.9	2789.1	2775.3	2766.2
57.5°	16771.2	13275.7	3816.7	3050.6	3004.7	2968.0	2899.2	2798.3	2715.7	2665.3	2688.2
60°	15890.4	12427.1	3642.4	2890.0	2880.8	2812.0	2715.7	2669.8	2568.9	2509.3	2495.5
62.5°	11812.3	8436.0	2954.3	2683.6	2679.0	2605.6	2495.5	2445.1	2426.7	2344.1	2344.1
65°	6803.0	5289.2	2555.2	2513.8	2477.2	2403.7	2293.6	2252.4	2206.5	2179.0	2156.1
67.5°	2903.8	2743.2	2321.2	2316.6	2275.3	2183.6	2073.5	2009.3	1949.6	1894.5	1922.1
70°	2105.6	2137.7	2096.4	2073.5	2023.0	1908.3	1812.0	1734.0	1642.3	1605.5	1633.1
72.5°	1669.7	1738.6	1798.2	1802.8	1743.2	1610.2	1504.6	1399.1	1298.2	1247.8	1270.7
75°	1266.1	1312.0	1371.6	1385.4	1298.2	1206.4	1105.5	995.4	917.4	857.9	867.0
77.5°	912.9	903.7	958.8	949.5	908.3	844.1	752.3	651.4	564.2	509.2	513.8
80°	623.9	637.7	669.8	665.2	614.7	573.4	504.6	422.0	357.8	311.9	302.8
82.5°	435.8	458.8	486.2	463.3	422.0	380.8	330.3	270.7	220.2	183.5	174.3
85°	156.0	178.9	206.4	220.2	234.0	224.8	188.1	151.4	110.1	91.8	87.1
87.5°	32.1	36.7	41.3	41.3	41.3	36.7	32.1	32.1	27.6	13.8	13.8
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)