

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: P647544

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
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-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24625.4 lumens  
Efficiency: N/A  
Efficacy: 56.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

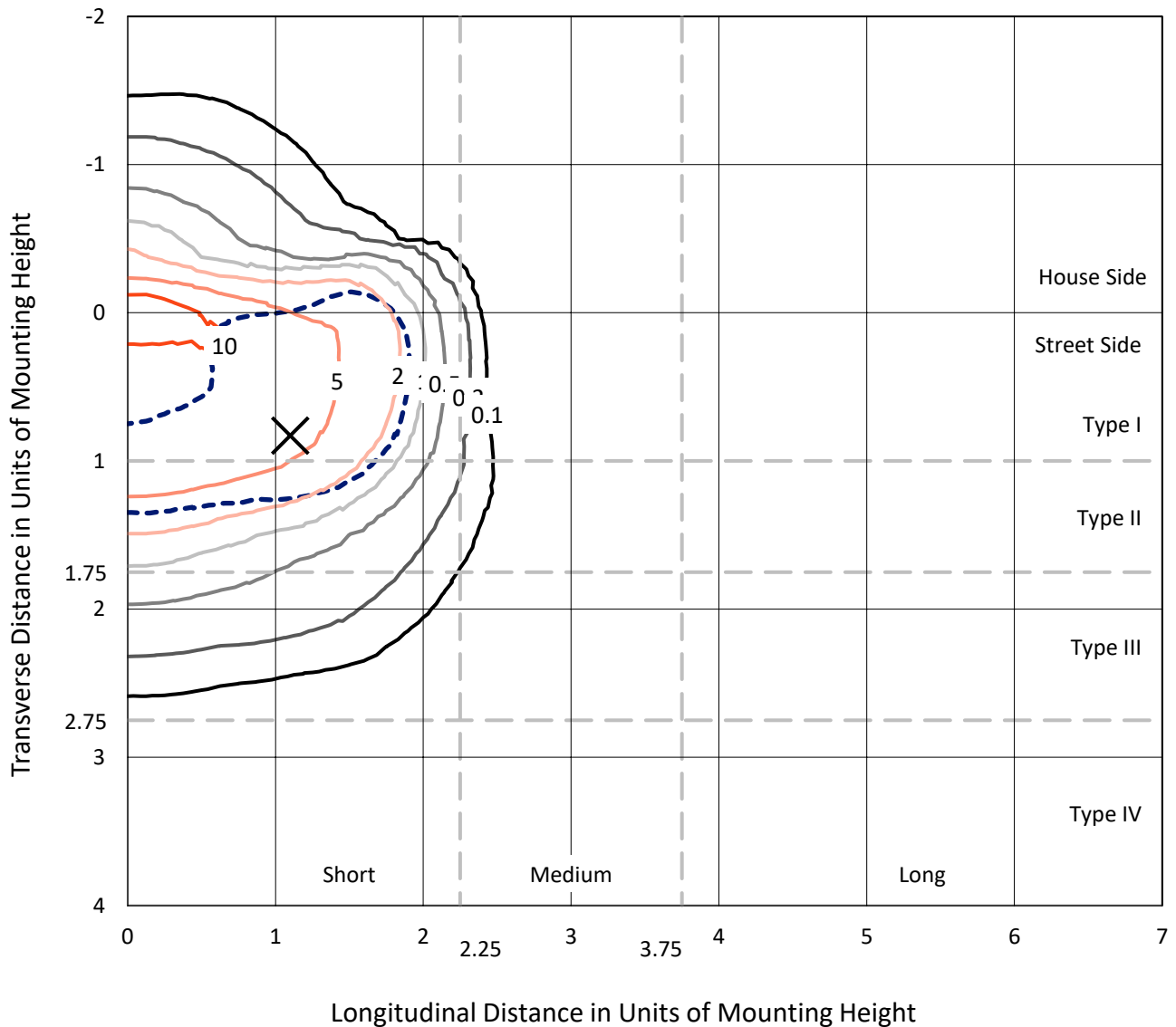
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA7D-835-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

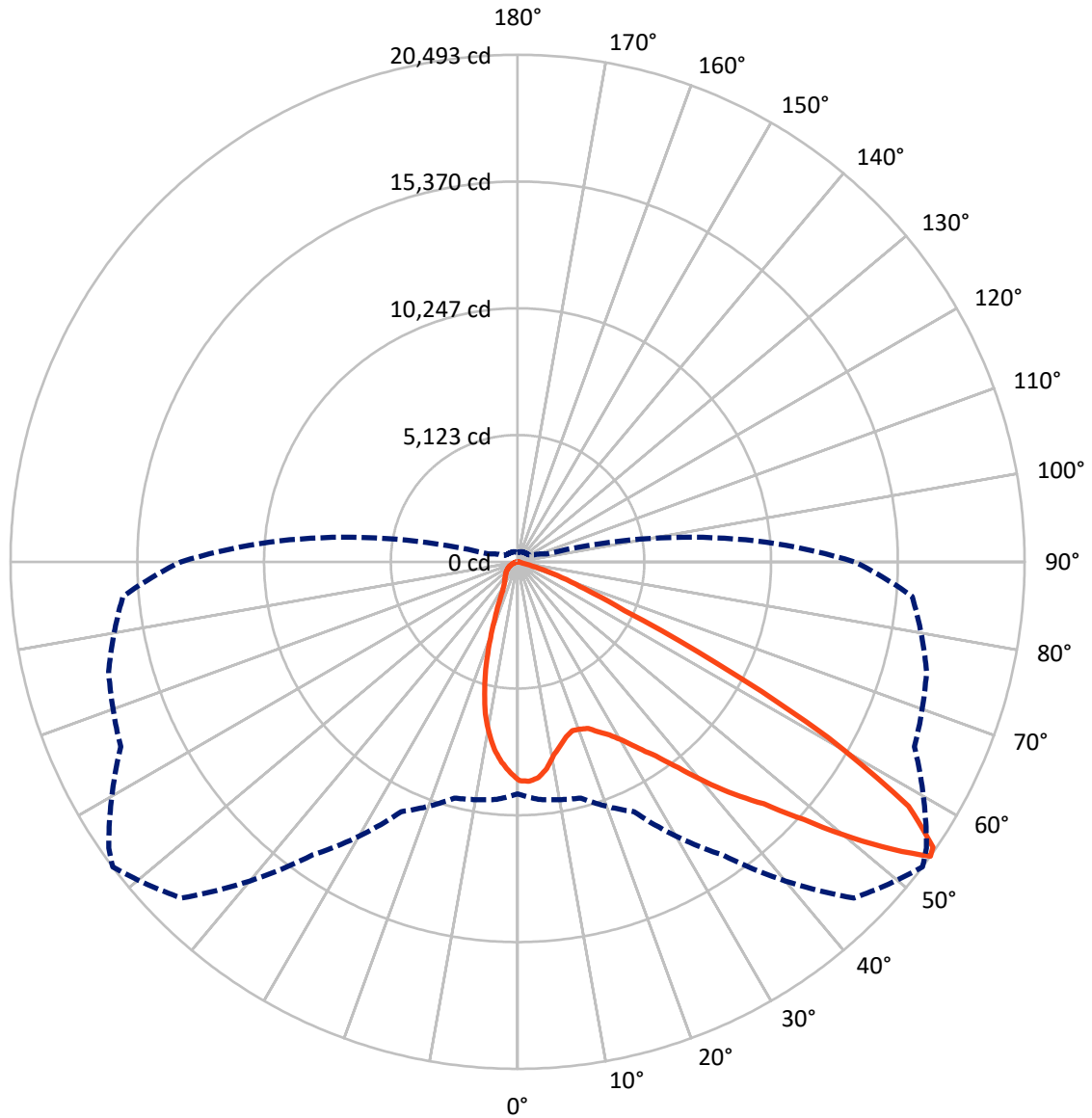
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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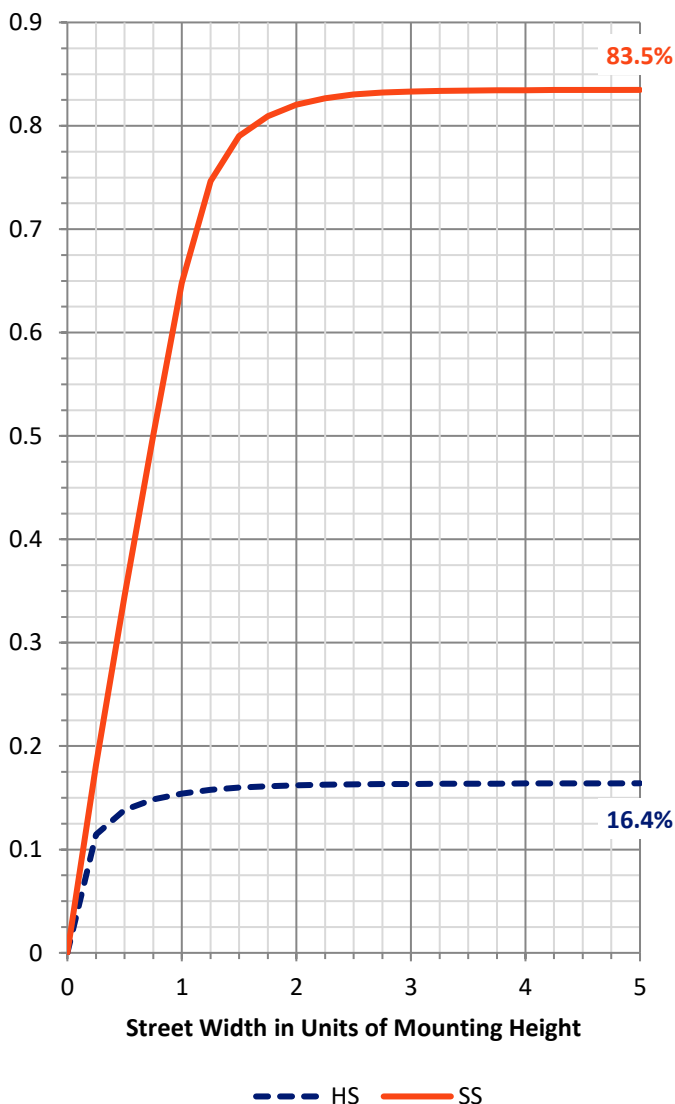
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4074.3	0.0	4074.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20551.0	0.0	20551.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24625.4	0.0	24625.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	758.9	3.1
10°-20°	1739.9	7.1
20°-30°	2472.7	10.0
30°-40°	3816.1	15.5
40°-50°	5983.3	24.3
50°-60°	6950.4	28.2
60°-70°	2626.3	10.7
70°-80°	249.7	1.0
80°-90°	28.1	0.1
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°	24625.4	100.0
0°-180°	24625.4	100.0

**Coefficient of Utilization**



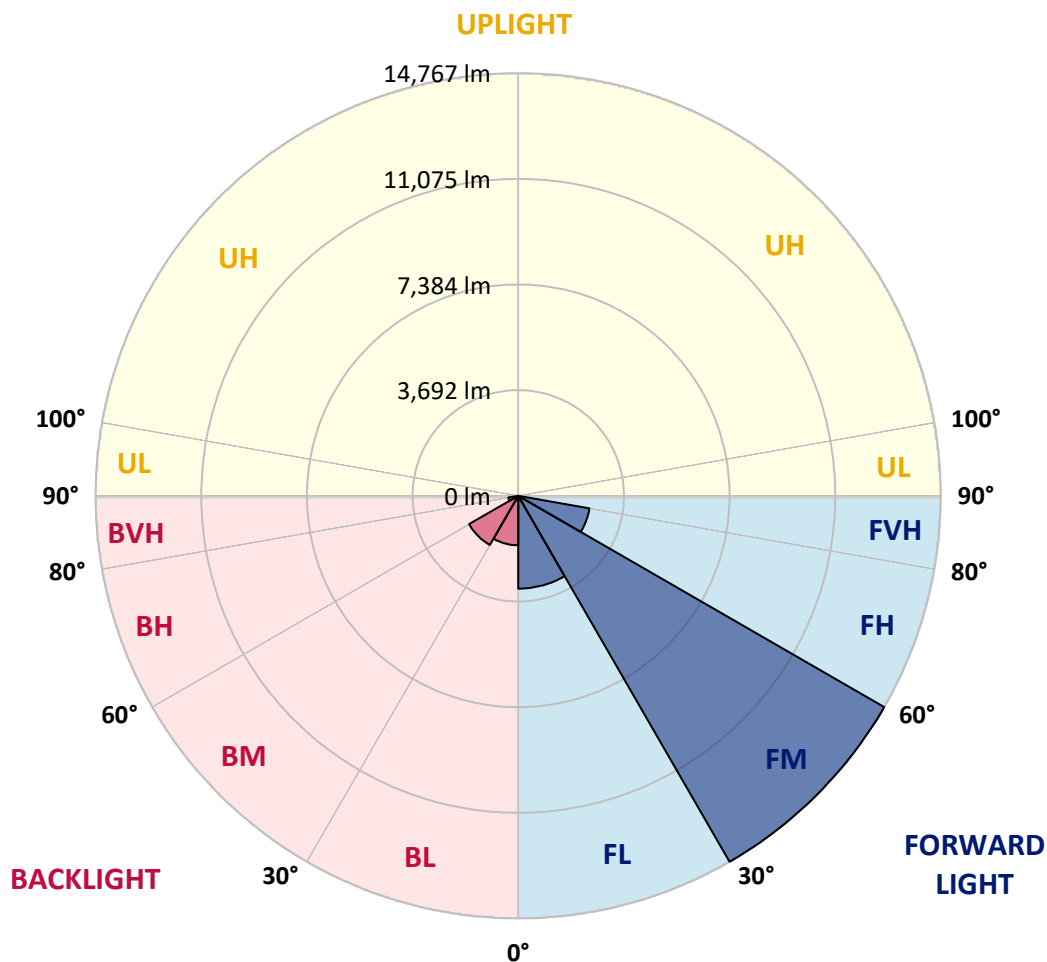
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3242.5	13.2			
FM (30°-60°)	14767.0	60.0			
FH (60°-80°)	2526.9	10.3			G2/5000
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	1729.0	7.0	B3/2500		
BM (30°-60°)	1982.7	8.1	B2/2500		
BH (60°-80°)	349.1	1.4	B1/500		G1/500
BVH (80°-90°)	13.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0
2.5°	8799.1	8721.1	8799.1	8808.3	8863.3	8913.8	8881.7	8955.1	8913.8	8867.9	8854.2
5°	8088.1	8193.5	8198.2	8363.3	8326.6	8629.4	8762.4	8725.8	8950.6	8936.8	8904.7
7.5°	7450.3	7409.1	7464.1	7656.8	7899.9	8248.6	8441.3	8436.7	8757.9	8987.2	8964.3
10°	6858.5	6854.0	6968.6	7120.1	7326.5	7693.5	7959.6	8092.6	8592.7	8941.4	8991.8
12.5°	6459.4	6441.1	6564.9	6688.8	7014.5	7299.0	7638.5	7702.7	8276.2	8780.8	8863.3
15°	6197.9	6239.3	6248.4	6486.9	6693.4	7069.6	7335.7	7468.7	8129.3	8652.3	8968.9
17.5°	6152.0	6207.1	6211.7	6408.9	6629.2	6945.7	7179.7	7358.6	8005.5	8716.6	8973.5
20°	6243.8	6211.7	6239.3	6363.0	6578.7	6881.5	7221.0	7280.6	7964.2	8748.7	9023.9
22.5°	6505.3	6496.2	6427.3	6528.3	6679.6	6996.2	7317.3	7409.1	8083.5	8913.8	9065.2
25°	6794.3	6844.8	6780.5	6766.8	6872.3	7184.3	7610.9	7730.2	8482.6	9212.0	9193.7
27.5°	7335.7	7285.2	7285.2	7221.0	7193.4	7344.9	7927.5	8124.7	8927.6	9597.4	9340.5
30°	7854.0	7909.2	7867.8	7890.8	7707.3	7693.5	8377.1	8620.2	9716.6	10184.6	9652.4
32.5°	8675.2	8601.9	8670.7	8611.0	8367.9	8120.2	8987.2	9239.6	10670.9	10859.0	10120.4
35°	9358.8	9326.7	9620.3	9611.2	9216.6	8973.5	9634.1	10010.3	11336.1	11666.4	10670.9
37.5°	10331.5	10271.8	10606.7	10767.3	10414.0	10051.5	10560.8	10996.6	11955.5	12313.3	11235.2
40°	11331.5	11482.9	11932.5	12198.6	11822.4	11340.7	11693.9	11827.0	12368.3	12735.3	11620.6
42.5°	12597.7	12817.9	13276.7	13506.0	13473.9	12951.0	12845.4	12840.9	12666.5	12616.1	11905.0
45°	13813.5	13730.8	14437.3	14937.4	15341.2	15189.7	13955.6	13818.1	13139.1	12795.0	11978.4
47.5°	14345.6	14318.1	14799.8	15689.8	17066.1	17254.2	15570.5	15038.4	13937.3	13547.4	12377.5
50°	13657.5	13799.7	14276.8	15263.2	17373.4	18809.4	17552.4	16836.7	14868.6	14464.9	13322.6
52.5°	11409.5	11505.9	11960.0	13212.5	16327.5	19727.0	19451.7	19038.8	16579.8	15910.0	14969.6
54°	9381.7	9638.7	9886.4	11143.4	14464.9	19217.7	20493.1	20176.5	17694.6	17112.0	16006.3
55°	8170.6	8322.0	8501.0	9753.4	13175.8	18355.2	20373.8	20401.3	18442.4	17488.1	16703.7
57.5°	5968.6	6074.0	5890.6	6445.7	9046.9	14905.3	18635.1	19378.3	19451.7	18052.5	17130.3
60°	4560.1	4606.0	4399.6	4486.7	5624.4	10230.5	14414.4	15309.1	17547.8	15777.0	14510.8
62.5°	3537.1	3546.3	3541.7	3693.1	3876.6	6019.0	9014.8	9808.4	12097.7	11203.1	9854.3
65°	2605.8	2564.5	2637.9	3096.7	3307.7	3784.8	4748.2	5326.3	6574.1	5551.1	3968.3
67.5°	1688.2	1702.0	1775.5	2303.0	2835.2	2904.0	2922.3	2876.4	2881.0	1587.3	995.5
70°	1013.9	1036.8	1013.9	1302.9	2027.7	2082.8	1903.9	1858.0	1449.7	376.2	371.6
72.5°	601.0	568.8	509.3	559.7	844.2	1009.3	908.4	903.7	568.8	220.2	220.2
75°	252.3	229.4	188.1	169.8	224.8	215.6	215.6	192.7	151.4	146.8	137.7
77.5°	50.4	50.4	36.7	41.3	55.0	64.2	78.0	78.0	91.8	91.8	87.1
80°	0.0	4.6	13.8	27.6	41.3	59.7	68.8	68.8	78.0	78.0	64.2
82.5°	0.0	4.6	13.8	27.6	36.7	55.0	68.8	68.8	78.0	82.6	68.8
85°	0.0	4.6	13.8	22.9	36.7	45.9	45.9	41.3	32.1	27.6	18.3
87.5°	0.0	0.0	4.6	9.2	4.6	9.2	9.2	9.2	9.2	9.2	9.2
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°	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0	8845.0
2.5°	8886.3	8881.7	8771.6	8592.7	8551.4	8400.0	8381.6	8289.9	8340.4	8170.6	8152.3
5°	8812.9	8757.9	8624.8	8510.1	8175.2	7936.6	7748.6	7519.1	7386.1	7409.1	7321.9
7.5°	8918.4	8776.2	8542.2	8143.1	7734.8	7317.3	7092.5	6624.6	6454.8	6202.5	6165.8
10°	8808.3	8702.8	8340.4	7679.7	7115.4	6514.5	5986.9	5468.5	5073.9	4904.2	4867.5
12.5°	8799.1	8615.7	8010.1	7276.0	6459.4	5597.0	4830.8	4184.0	3794.0	3573.8	3523.3
15°	8656.9	8436.7	7638.5	6652.1	5523.5	4450.0	3615.1	2991.1	2693.0	2564.5	2601.2
17.5°	8670.7	8340.4	7266.9	5991.5	4601.5	3266.4	2468.2	2147.1	2069.0	2101.2	2101.2
20°	8656.9	8124.7	6817.3	5230.0	3523.3	2266.3	1812.1	1697.5	1747.9	1848.8	1825.9
22.5°	8583.5	8023.8	6404.4	4427.1	2592.0	1679.1	1454.3	1458.9	1536.9	1660.7	1688.2
25°	8638.6	7799.0	5881.3	3615.1	1890.1	1339.6	1261.6	1293.8	1376.3	1468.0	1486.4
27.5°	8597.3	7638.5	5335.4	2807.7	1380.9	1151.5	1146.9	1183.6	1220.3	1289.1	1289.1
30°	8643.1	7491.7	4798.7	2087.4	1137.8	1055.2	1036.8	1064.3	1101.1	1114.8	1110.2
32.5°	8812.9	7381.6	4179.3	1559.8	1004.7	963.4	963.4	963.4	958.8	977.2	981.7
35°	9184.5	7399.9	3633.4	1206.5	917.5	885.4	871.6	853.3	844.2	853.3	857.9
37.5°	9588.2	7390.7	3069.1	1027.6	853.3	825.8	793.6	766.2	761.5	770.7	756.9
40°	9767.1	7477.9	2546.2	922.1	793.6	761.5	711.1	688.2	692.7	701.9	692.7
42.5°	10010.3	7505.4	2206.7	839.5	738.6	688.2	656.0	628.5	623.9	637.7	633.1
45°	10005.7	7349.4	1848.8	793.6	688.2	633.1	591.8	568.8	568.8	578.0	582.6
47.5°	10299.3	7326.5	1587.3	752.4	651.5	596.4	545.9	527.6	523.0	523.0	513.8
50°	10982.8	7647.6	1385.4	706.5	605.6	555.1	513.8	490.9	472.5	463.4	458.8
52.5°	12317.8	8647.8	1229.5	651.5	555.1	513.8	477.1	458.8	435.8	412.9	408.3
54°	13611.6	9680.0	1220.3	605.6	513.8	486.3	454.1	445.0	417.5	385.4	376.2
55°	14194.2	10280.9	1252.4	568.8	486.3	467.9	440.4	431.3	403.7	367.0	362.5
57.5°	14675.9	10514.9	1234.1	472.5	440.4	435.8	412.9	399.1	367.0	316.6	307.4
60°	11813.2	7950.4	885.4	417.5	403.7	394.6	376.2	367.0	325.7	270.7	266.1
62.5°	7464.1	4573.9	564.3	367.0	353.2	339.5	316.6	307.4	270.7	215.6	201.9
65°	3179.2	1894.7	380.8	325.7	302.8	279.8	261.5	247.7	215.6	160.6	156.0
67.5°	825.8	674.4	316.6	284.5	252.3	220.2	206.5	183.5	146.8	110.1	105.5
70°	371.6	339.5	266.1	238.6	201.9	169.8	151.4	128.5	96.3	73.4	68.8
72.5°	220.2	215.6	201.9	178.9	151.4	128.5	110.1	87.1	64.2	41.3	41.3
75°	137.7	133.0	137.7	123.9	105.5	96.3	82.6	59.7	36.7	18.3	18.3
77.5°	82.6	82.6	82.6	78.0	73.4	73.4	59.7	36.7	18.3	4.6	4.6
80°	64.2	64.2	68.8	64.2	64.2	64.2	50.4	27.6	9.2	0.0	0.0
82.5°	64.2	68.8	78.0	73.4	64.2	55.0	45.9	27.6	9.2	0.0	0.0
85°	18.3	13.8	22.9	32.1	45.9	41.3	32.1	22.9	9.2	0.0	0.0
87.5°	9.2	9.2	9.2	9.2	4.6	4.6	4.6	4.6	4.6	0.0	0.0
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)