

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: P457997

Luminaire Tested: **GALN-SA9B-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457997  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31035 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

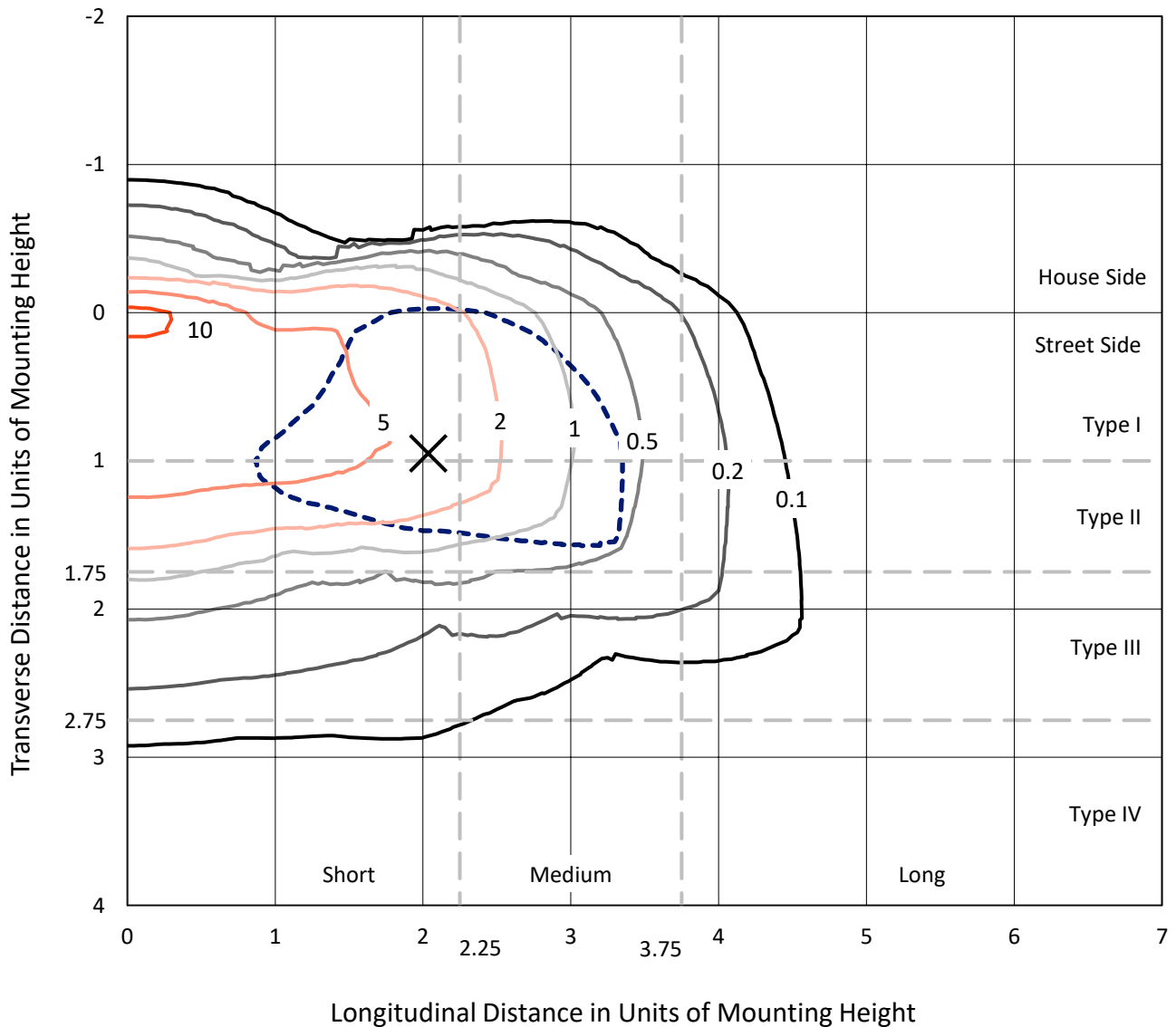
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

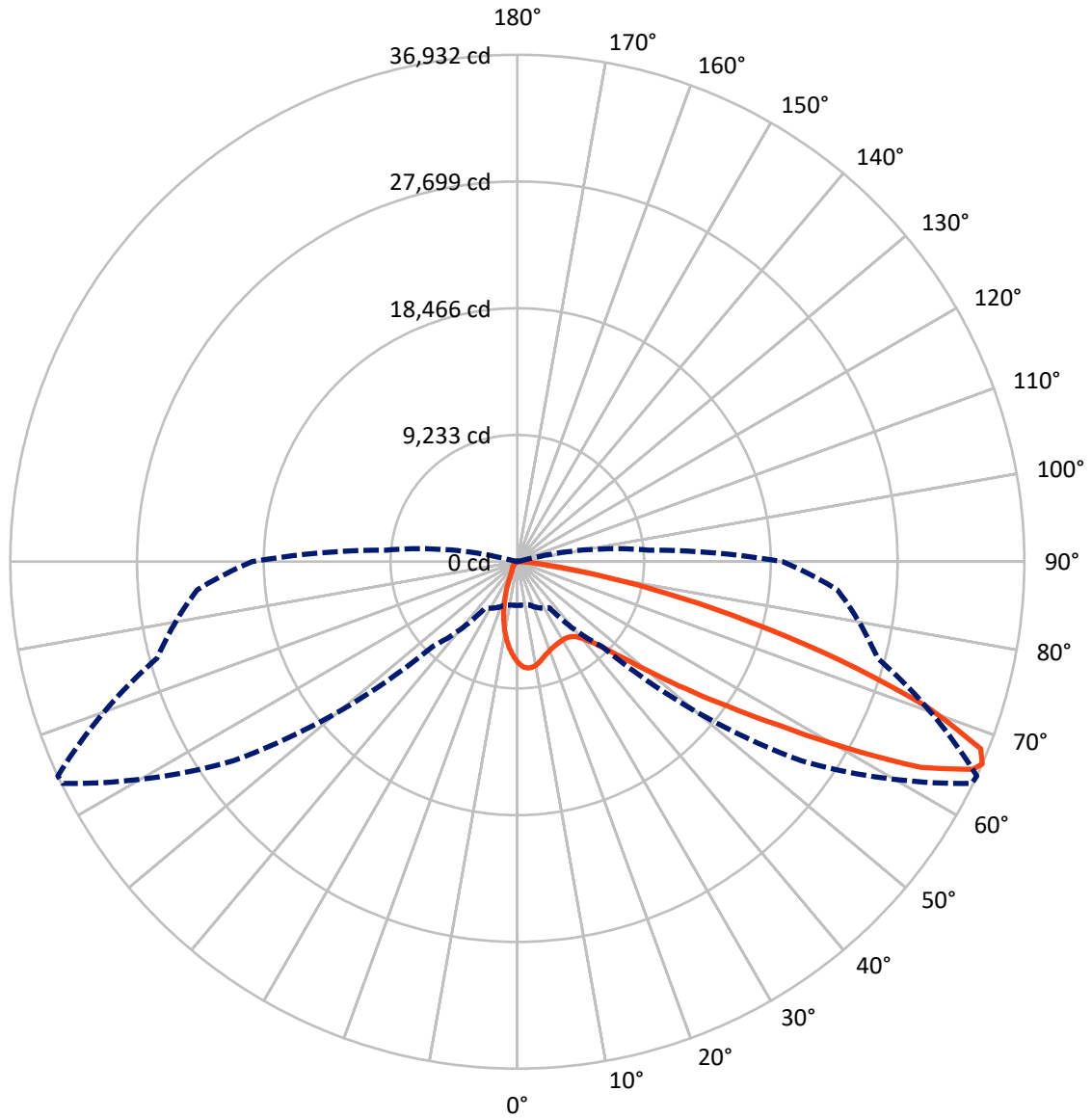
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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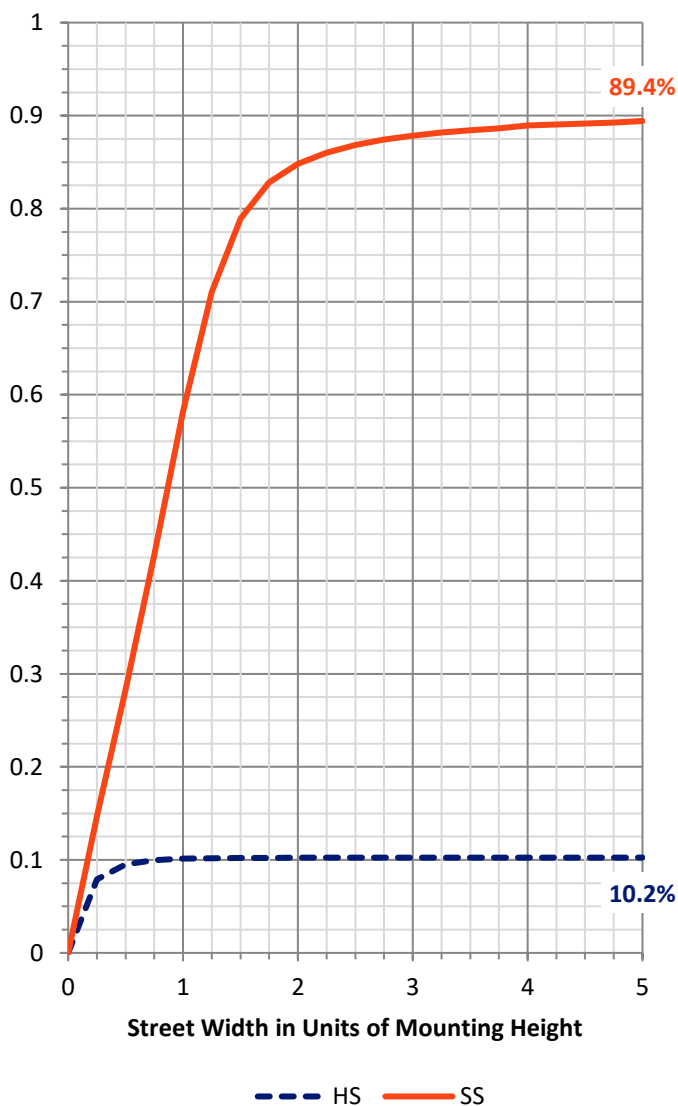
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3209.5	0.0	3209.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	27825.5	0.0	27825.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	31035.0	0.0	31035.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.9	1.9
10°-20°	1311.4	4.2
20°-30°	1878.7	6.1
30°-40°	2743.9	8.8
40°-50°	4601.1	14.8
50°-60°	7678.5	24.7
60°-70°	8150.5	26.3
70°-80°	3691.3	11.9
80°-90°	377.7	1.2
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°	31035.0	100.0
0°-180°	31035.0	100.0

**Coefficient of Utilization**



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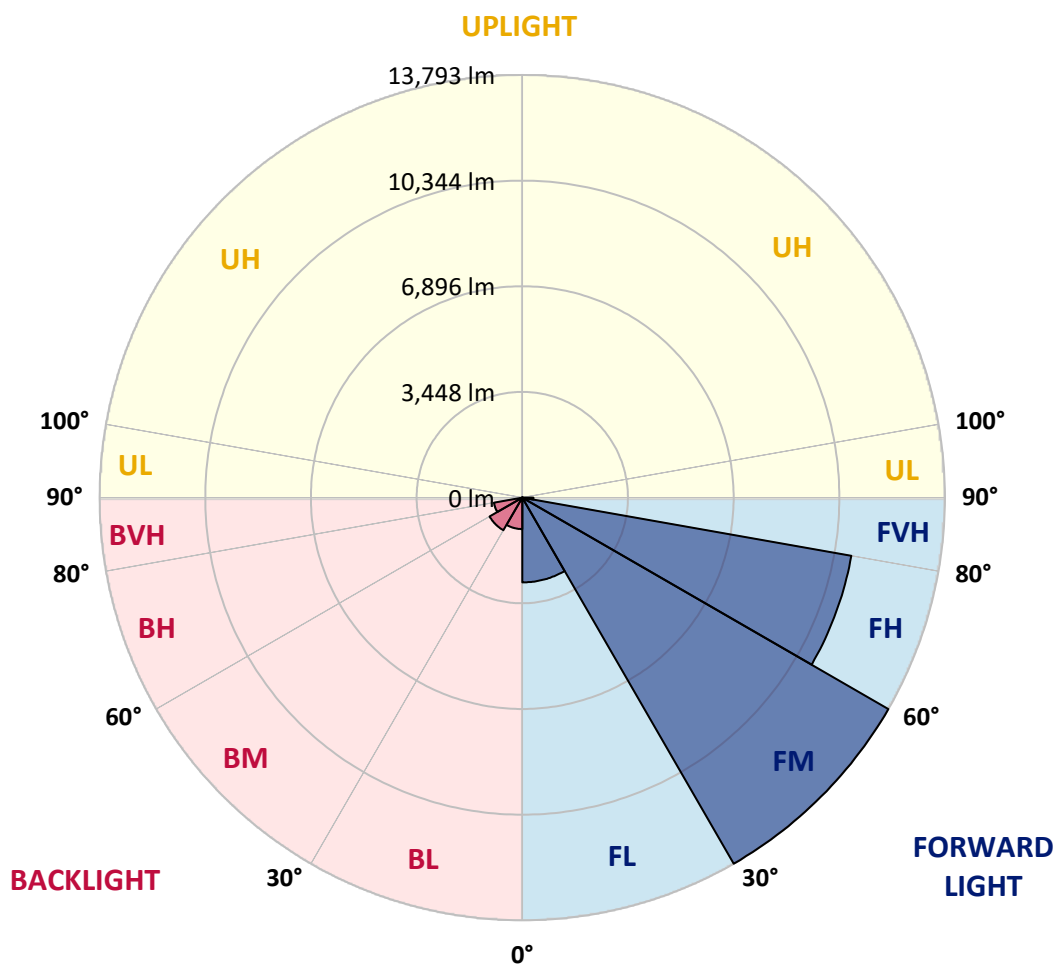
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2765.3	8.9			
FM	(30°-60°)	13792.7	44.4			
FH	(60°-80°)	10901.9	35.1			G4/12000
FVH	(80°-90°)	365.7	1.2			G3/500
BL	(0°-30°)	1026.7	3.3	B3/2500		
BM	(30°-60°)	1230.9	4.0	B2/2500		
BH	(60°-80°)	939.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5
2.5°	7755.7	7764.1	7774.6	7789.3	7799.7	7768.3	7724.3	7674.0	7663.5	7556.6	7426.6
5°	7340.7	7353.3	7445.5	7495.8	7609.0	7711.7	7776.7	7785.1	7780.9	7680.3	7472.7
7.5°	6749.6	6785.2	6875.3	6963.4	7175.1	7370.0	7600.6	7762.0	7772.5	7745.2	7487.4
10°	6269.6	6292.6	6338.7	6512.7	6688.8	6986.4	7309.2	7613.2	7638.3	7747.3	7474.8
12.5°	5894.3	5927.9	5984.5	6118.6	6330.3	6611.2	6978.0	7386.8	7439.2	7707.5	7439.2
15°	5632.3	5649.1	5705.7	5837.7	6043.2	6303.1	6674.1	7149.9	7196.0	7655.1	7432.9
17.5°	5508.7	5527.5	5567.3	5672.2	5841.9	6083.0	6445.6	6959.2	7017.9	7621.6	7456.0
20°	5542.2	5559.0	5561.1	5615.6	5730.8	5934.2	6277.9	6781.0	6856.5	7600.6	7493.7
22.5°	5732.9	5735.0	5709.9	5684.7	5724.6	5871.3	6175.2	6667.8	6745.4	7596.4	7537.7
25°	6018.0	6024.3	5982.4	5894.3	5814.7	5890.1	6152.2	6594.5	6663.6	7585.9	7565.0
27.5°	6412.1	6410.0	6397.4	6250.7	6024.3	5974.0	6171.0	6554.6	6613.3	7556.6	7575.4
30°	6963.4	6946.6	6919.4	6753.8	6407.9	6177.3	6250.7	6529.5	6584.0	7514.7	7548.2
32.5°	7506.3	7569.2	7565.0	7407.8	6975.9	6540.0	6416.3	6563.0	6602.8	7487.4	7508.4
35°	8139.3	8137.2	8298.6	8239.9	7734.8	7003.2	6699.3	6674.1	6705.5	7506.3	7489.5
37.5°	8726.2	8780.7	9032.3	9093.0	8631.9	7657.2	7099.6	6913.1	6923.5	7634.1	7535.6
40°	9457.8	9562.6	9937.8	10141.1	9734.5	8627.7	7690.7	7351.2	7353.3	7948.6	7709.6
42.5°	10401.0	10566.6	10916.7	11256.3	11038.3	9776.4	8577.4	8045.0	8040.8	8501.9	8107.9
45°	11547.6	11662.9	12061.2	12599.9	12461.5	11379.9	9868.6	9120.3	9065.8	9409.6	8814.3
47.5°	12537.0	12694.2	13098.8	13712.9	14341.8	13337.7	11411.4	10598.1	10562.4	10853.8	10025.8
50°	12968.8	13107.2	13532.7	14394.2	15918.1	15907.6	13708.7	12755.0	12694.2	12851.4	11899.8
52.5°	12495.1	12625.0	13054.8	14128.0	16660.1	19039.2	17037.4	15461.1	15387.8	15186.5	14138.5
55°	10872.7	10979.6	11614.7	12847.2	16375.0	21127.0	21623.8	18804.5	18519.4	17737.5	16672.7
57.5°	8657.1	8602.6	8996.6	10428.3	14702.3	21827.1	26331.7	22969.5	22460.1	19942.7	18817.0
60°	5999.1	6166.8	6326.1	7269.4	11055.0	20613.4	29260.0	28205.6	27534.9	22112.2	20871.3
62.5°	4410.3	4521.4	4626.2	5062.2	6950.8	16458.9	29777.7	33584.3	32989.0	24415.8	22831.1
65°	3488.0	3496.4	3538.3	3968.0	4580.1	10702.9	27289.6	36617.4	36464.4	26633.5	23625.6
66°	3177.7	3179.8	3244.8	3706.0	4110.5	8715.7	25296.2	36848.0	36931.9	27166.0	23392.9
67.5°	2777.4	2769.0	2863.3	3330.8	3743.7	6284.2	21728.6	35913.1	36409.9	27574.7	22556.5
70°	2152.7	2142.3	2257.5	2794.2	3448.1	4192.3	14442.4	30836.3	31637.0	26738.3	19957.3
72.5°	1433.8	1442.1	1639.2	2205.1	3290.9	3691.3	8688.5	23457.9	24589.8	22080.7	15700.1
75°	836.4	851.0	1075.3	1639.2	2857.0	3519.4	4917.5	16727.2	17450.4	15247.3	9780.6
77.5°	438.1	444.4	601.6	1081.6	2190.5	3267.9	3276.3	10686.1	11025.7	7409.9	3871.6
80°	232.7	226.4	322.8	651.9	1507.1	2869.6	2657.9	5657.5	5881.8	2200.9	978.9
82.5°	88.0	96.4	171.9	427.6	890.9	2060.5	2289.0	2500.7	2423.1	484.2	410.8
85°	16.8	21.0	73.4	253.6	448.6	861.5	1687.4	1226.2	1136.1	182.4	236.9
87.5°	2.1	4.2	21.0	60.8	65.0	291.4	498.9	339.6	293.5	67.1	98.5
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°	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5	7359.5
2.5°	7363.7	7307.1	7118.5	6931.9	6741.2	6569.3	6451.9	6261.2	6213.0	6143.8	6104.0
5°	7349.1	7217.0	6854.4	6458.2	6089.3	5691.0	5387.1	5093.6	4936.4	4856.8	4827.4
7.5°	7307.1	7097.5	6531.6	5911.1	5320.0	4724.7	4207.0	3812.9	3559.2	3385.3	3267.9
10°	7223.3	6934.0	6156.4	5303.2	4410.3	3624.2	2968.1	2469.3	2083.6	1962.0	1966.2
12.5°	7137.4	6751.7	5737.1	4628.3	3521.5	2530.0	1834.1	1440.0	1255.6	1194.8	1182.2
15°	7057.7	6577.7	5326.3	3974.3	2622.3	1639.2	1182.2	1043.9	993.6	983.1	981.0
17.5°	7015.8	6416.3	4888.2	3226.0	1829.9	1113.0	947.5	909.7	895.1	884.6	880.4
20°	6980.1	6275.8	4469.0	2525.8	1251.4	911.8	848.9	813.3	788.1	777.7	771.4
22.5°	6955.0	6131.2	4035.1	1955.7	957.9	809.1	752.5	706.4	670.8	658.2	649.8
25°	6917.3	5971.9	3597.0	1429.6	807.0	719.0	654.0	599.5	553.4	530.3	526.1
27.5°	6862.8	5791.6	3117.0	1058.6	721.1	639.3	559.7	492.6	446.5	421.3	423.4
30°	6774.7	5603.0	2636.9	840.6	651.9	557.6	471.6	406.7	362.6	343.8	341.7
32.5°	6669.9	5374.5	2196.8	721.1	589.0	484.2	394.1	337.5	303.9	289.3	287.2
35°	6571.4	5143.9	1748.2	647.7	524.0	417.1	331.2	283.0	257.8	245.2	247.3
37.5°	6516.9	4938.5	1362.5	589.0	471.6	358.4	285.1	243.2	220.1	209.6	207.5
40°	6552.5	4770.8	1083.7	536.6	412.9	308.1	245.2	209.6	186.6	171.9	171.9
42.5°	6720.2	4697.4	874.1	486.3	358.4	266.2	213.8	180.3	155.1	140.4	142.5
45°	7231.7	4775.0	731.6	440.2	308.1	230.6	184.5	148.8	125.8	115.3	113.2
47.5°	8080.6	5066.4	633.0	392.0	264.1	197.0	155.1	123.7	100.6	92.2	90.1
50°	9564.7	5668.0	559.7	343.8	224.3	167.7	127.9	98.5	79.7	71.3	71.3
52.5°	11606.3	6980.1	507.3	289.3	188.7	142.5	104.8	79.7	62.9	56.6	54.5
55°	13740.2	8363.6	480.0	243.2	157.2	117.4	83.8	62.9	48.2	41.9	39.8
57.5°	15792.3	9449.4	448.6	197.0	125.8	90.1	65.0	48.2	33.5	29.3	27.2
60°	17760.6	10327.7	381.5	157.2	98.5	65.0	48.2	33.5	23.1	18.9	18.9
62.5°	19521.3	10839.1	299.7	125.8	75.5	46.1	31.4	25.2	16.8	12.6	12.6
65°	19726.8	10174.7	226.4	96.4	54.5	29.3	18.9	18.9	12.6	8.4	8.4
66°	19313.8	9610.8	199.1	88.0	48.2	25.2	16.8	14.7	10.5	6.3	6.3
67.5°	18391.5	8648.7	171.9	75.5	39.8	18.9	12.6	12.6	8.4	4.2	4.2
70°	15890.8	7064.0	136.2	56.6	29.3	14.7	8.4	8.4	6.3	4.2	4.2
72.5°	12111.5	5273.9	111.1	41.9	21.0	10.5	6.3	6.3	6.3	4.2	4.2
75°	7305.0	2840.3	85.9	31.4	18.9	8.4	4.2	6.3	8.4	6.3	4.2
77.5°	2691.4	966.3	67.1	25.2	14.7	8.4	4.2	4.2	8.4	6.3	6.3
80°	660.3	251.5	48.2	21.0	14.7	8.4	4.2	4.2	8.4	8.4	8.4
82.5°	306.0	106.9	33.5	18.9	14.7	8.4	4.2	4.2	6.3	8.4	8.4
85°	176.1	50.3	27.2	21.0	14.7	8.4	4.2	4.2	6.3	8.4	8.4
87.5°	71.3	25.2	25.2	21.0	16.8	10.5	4.2	4.2	4.2	6.3	6.3
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)