

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: P457082

Luminaire Tested: **GALN-SA8B-827-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27043 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

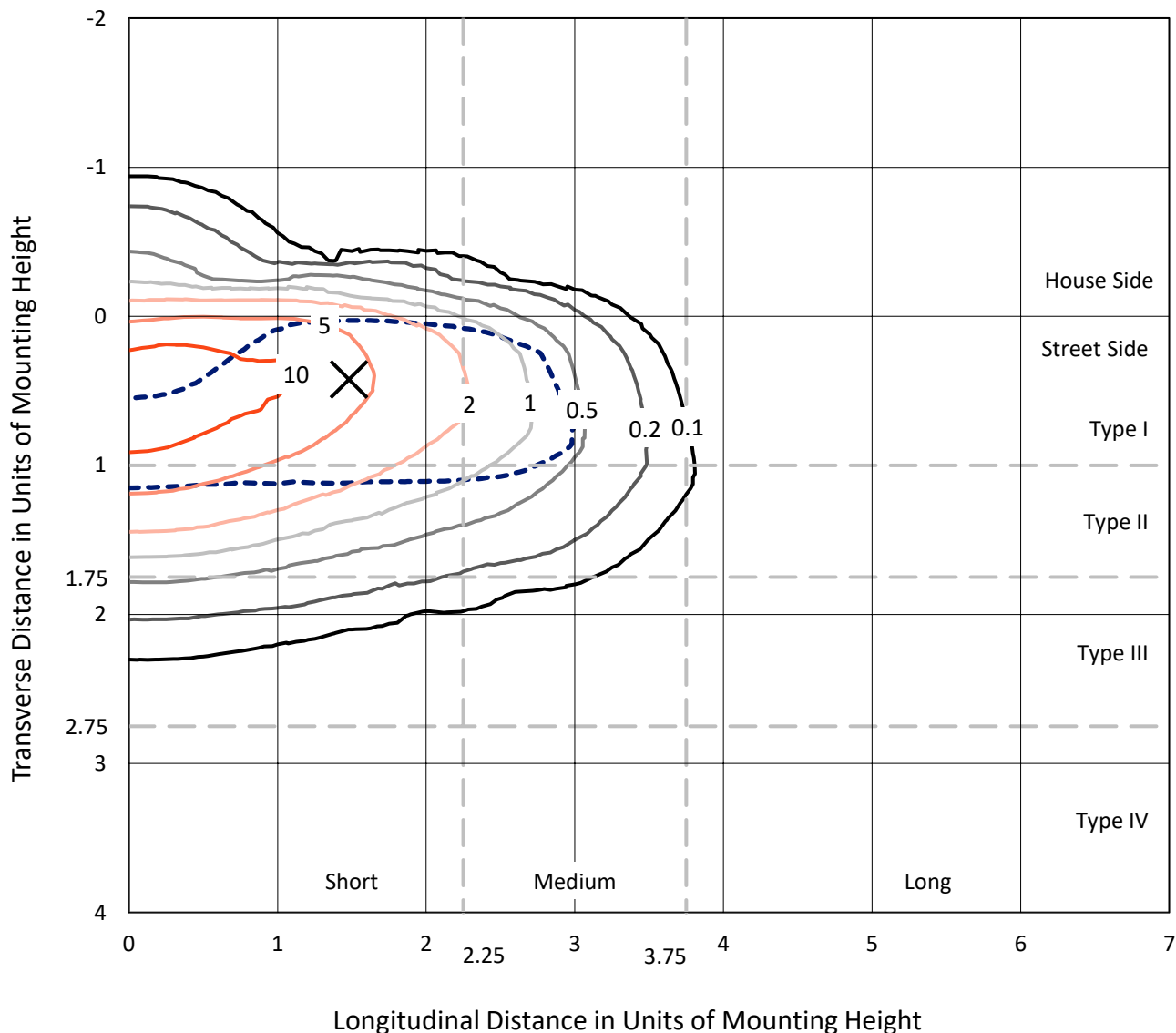
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

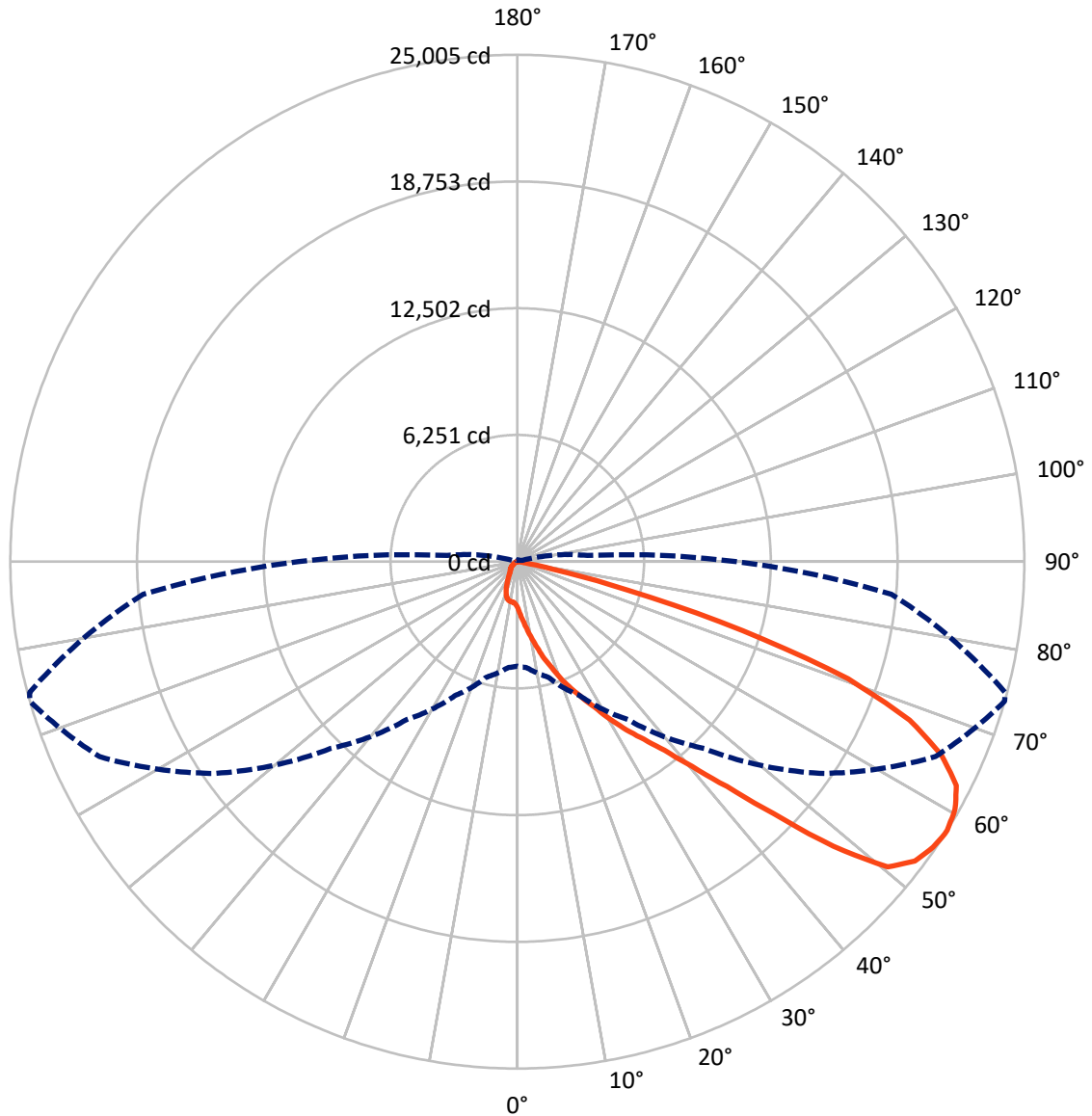
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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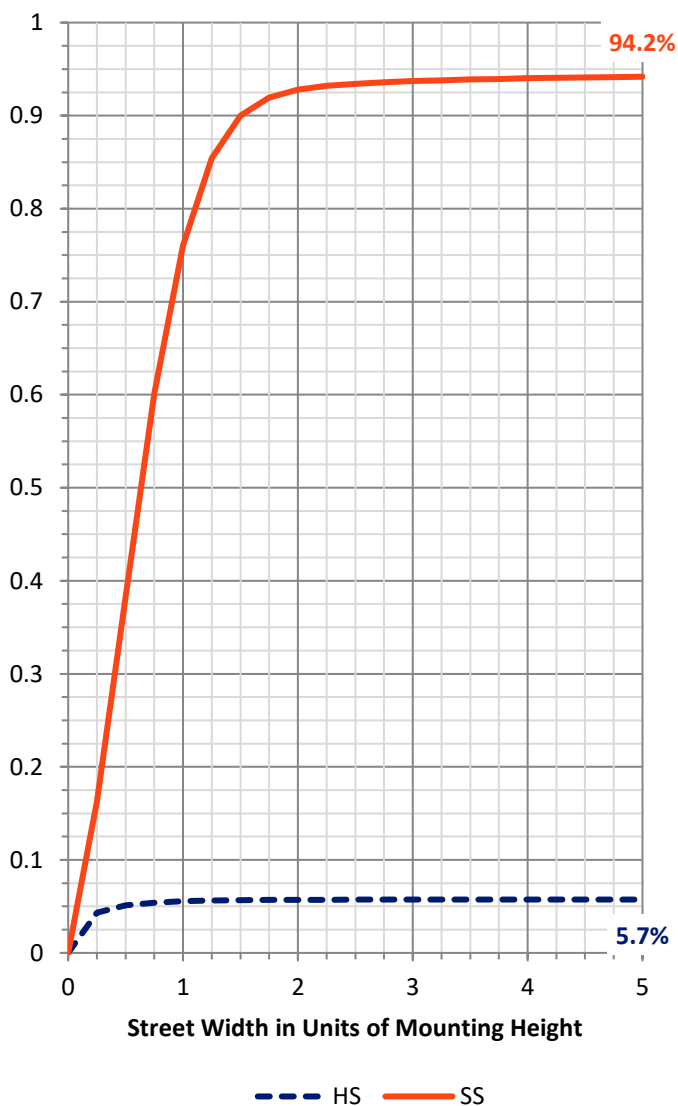
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1559.8	0.0	1559.8
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	25483.2	0.0	25483.2
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	27043.0	0.0	27043.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.4	1.0
10°-20°	1077.5	4.0
20°-30°	2305.6	8.5
30°-40°	4237.7	15.7
40°-50°	6496.4	24.0
50°-60°	6872.3	25.4
60°-70°	4487.8	16.6
70°-80°	1226.2	4.5
80°-90°	66.0	0.2
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°	27043.0	100.0
0°-180°	27043.0	100.0

**Coefficient of Utilization**



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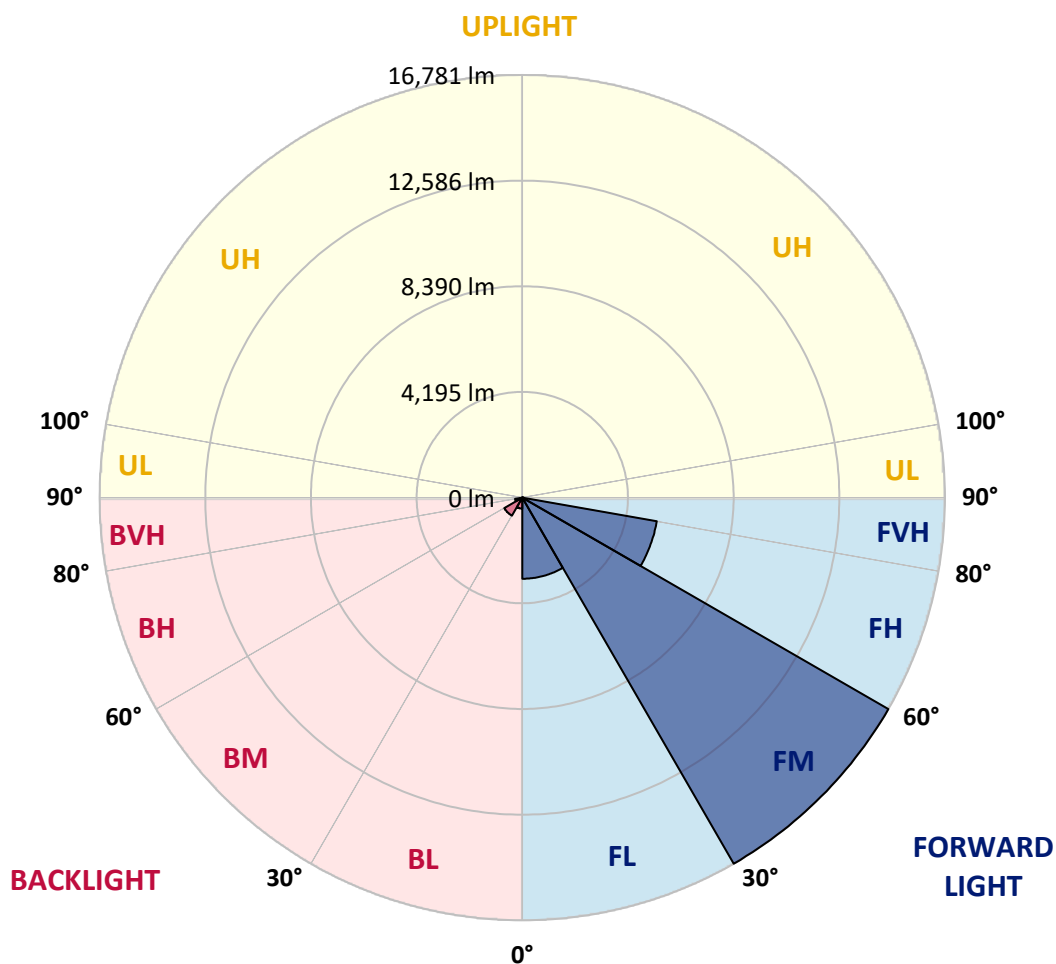
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3220.8	11.9			
FM (30°-60°)	16780.7	62.1			
FH (60°-80°)	5421.2	20.0			G3/7500
FVH (80°-90°)	60.6	0.2			G1/100
BL (0°-30°)	435.7	1.6	B1/500		
BM (30°-60°)	825.8	3.1	B1/1000		
BH (60°-80°)	292.8	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	3314.1	3284.3	3224.5	3204.0	3116.2	2979.9	2860.4	2699.9	2572.9	2559.8	2406.7
5°	4438.1	4370.9	4342.9	4208.5	3997.5	3799.6	3459.8	3202.1	2905.2	2882.8	2574.8
7.5°	5521.1	5427.7	5399.7	5272.7	5026.3	4714.5	4273.8	3805.2	3334.7	3291.7	2800.7
10°	6305.3	6318.3	6267.9	6183.9	5984.1	5666.7	5123.4	4483.0	3812.7	3758.5	3054.6
12.5°	6867.3	6865.4	6874.7	6872.9	6766.4	6525.6	5954.2	5216.7	4339.2	4232.8	3345.9
15°	7233.2	7238.8	7266.8	7363.9	7375.1	7225.8	6749.6	5918.8	4949.7	4817.2	3661.4
17.5°	7602.9	7642.1	7686.9	7778.4	7860.6	7800.8	7464.7	6650.7	5502.4	5403.4	3999.4
20°	8213.5	8267.6	8241.5	8297.5	8340.4	8346.0	8086.5	7326.6	6172.7	6006.5	4385.9
22.5°	9190.0	9188.1	9120.9	9020.1	8936.0	8932.3	8697.0	8021.1	6781.4	6620.8	4774.2
25°	10424.1	10429.7	10299.0	10011.5	9802.4	9546.6	9275.8	8629.8	7433.0	7235.1	5183.1
27.5°	11839.4	11803.9	11606.0	11210.2	10795.7	10358.8	9968.6	9337.5	8123.8	7959.5	5651.8
30°	13110.9	13097.8	12866.3	12382.7	11837.5	11398.8	10833.0	10224.3	9018.2	8816.5	6176.4
32.5°	14294.7	14313.3	13992.2	13491.8	12965.3	12459.3	11861.8	11072.0	9895.7	9610.1	6747.8
35°	15218.9	15237.6	14905.2	14488.8	13947.4	13527.3	12957.8	11975.7	10762.1	10521.2	7405.0
37.5°	15711.8	15736.1	15543.8	15230.1	14892.1	14681.2	14150.9	13138.9	11815.1	11669.5	8181.7
40°	15805.2	15833.2	15749.2	15665.1	15646.5	15797.7	15642.7	14509.4	13275.2	13047.4	9339.3
42.5°	15525.1	15562.4	15599.8	15786.5	16167.4	16721.9	17261.5	16369.0	15155.4	14849.2	10754.6
45°	14789.5	14785.7	14933.2	15416.8	16270.1	17453.8	18953.1	18697.3	17717.1	17353.0	12754.3
47.5°	13531.0	13512.3	13831.6	14520.6	15850.0	17588.3	20332.9	21524.2	20986.4	20650.3	14903.3
50°	11613.5	11705.0	12207.2	13168.8	14806.3	17181.2	20758.6	23378.2	23669.5	23312.9	16639.8
52.5°	9367.3	9363.6	10151.5	11456.6	13260.3	16285.0	20461.8	23714.3	24541.4	24268.8	17494.9
55°	6932.6	6981.2	7800.8	9117.1	11253.1	14649.4	19492.7	23368.9	24873.8	24681.5	18058.8
57°	5157.0	5242.9	5900.1	7293.0	9505.5	13030.6	18202.5	22750.9	25004.5	24899.9	18527.4
57.5°	4813.4	4817.2	5457.6	6723.5	8993.9	12408.9	17832.9	22493.2	25000.7	24942.9	18604.0
60°	2963.1	3056.5	3499.0	4544.6	6583.5	9684.7	15355.2	21012.6	24806.6	24890.6	18930.7
62.5°	1773.8	1813.0	2100.5	2739.1	4244.0	7068.9	12565.7	19117.4	24300.6	24556.4	18908.3
65°	1140.8	1150.1	1280.8	1658.0	2653.2	4778.0	9682.9	16613.6	22991.7	23462.2	18168.9
67.5°	881.3	896.2	948.5	1088.5	1538.5	2976.2	6848.6	13941.8	20874.4	21481.2	16376.5
70°	782.3	789.8	808.5	853.3	1017.6	1680.4	4260.8	10890.9	17310.1	17481.8	12815.9
72.5°	638.6	659.1	717.0	731.9	806.6	1049.3	2371.2	7309.8	11630.3	11673.2	7169.7
75°	494.8	498.5	584.4	627.4	679.6	722.6	1058.7	3685.7	5586.4	5287.7	2763.3
77.5°	369.7	386.5	425.7	479.8	554.5	517.2	474.2	1389.1	1734.6	1702.8	802.9
80°	237.1	246.5	296.9	360.4	431.3	337.9	267.0	407.0	380.9	392.1	192.3
82.5°	119.5	121.4	190.4	293.1	274.5	169.9	168.0	166.2	141.9	140.0	89.6
85°	13.1	28.0	123.2	168.0	123.2	56.0	78.4	76.6	74.7	76.6	52.3
87.5°	1.9	1.9	20.5	24.3	16.8	18.7	22.4	24.3	29.9	28.0	22.4
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°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2332.0	2257.3	2119.2	1986.6	1887.7	1824.2	1742.0	1712.1	1669.2	1663.6	1643.1
5°	2432.9	2291.0	2050.1	1859.7	1706.5	1590.8	1490.0	1405.9	1338.7	1323.8	1331.3
7.5°	2576.6	2365.6	2029.6	1770.0	1557.2	1359.3	1198.7	1099.7	1028.8	1002.6	1006.4
10°	2739.1	2464.6	2025.8	1674.8	1349.9	1107.2	931.7	843.9	802.9	787.9	771.1
12.5°	2931.4	2578.5	2016.5	1527.3	1122.1	883.1	758.1	705.8	666.6	655.4	655.4
15°	3148.0	2699.9	1971.7	1344.3	911.2	730.0	646.0	604.9	591.9	580.7	580.7
17.5°	3373.9	2819.4	1878.3	1118.4	756.2	625.5	573.2	548.9	530.3	517.2	517.2
20°	3631.5	2937.0	1729.0	918.6	638.6	558.3	517.2	489.2	474.2	463.0	459.3
22.5°	3876.1	3032.2	1538.5	754.3	556.4	502.3	464.9	435.0	420.1	414.5	414.5
25°	4130.1	3090.1	1308.9	623.6	507.9	455.6	414.5	390.2	377.2	373.4	371.6
27.5°	4376.5	3123.7	1107.2	545.2	463.0	412.6	373.4	354.8	341.7	337.9	339.8
30°	4675.3	3129.3	911.2	489.2	423.8	371.6	336.1	319.3	311.8	308.1	306.2
32.5°	4977.7	3121.8	765.5	455.6	386.5	336.1	306.2	293.1	287.5	281.9	281.9
35°	5317.6	3082.6	651.6	422.0	351.0	306.2	280.1	268.9	261.4	255.8	253.9
37.5°	5739.5	3062.1	586.3	384.6	319.3	278.2	253.9	242.7	237.1	229.7	227.8
40°	6404.2	3153.6	565.7	351.0	287.5	252.1	229.7	216.6	209.1	201.6	199.8
42.5°	7233.2	3314.1	532.1	317.4	259.5	227.8	205.4	190.4	177.4	168.0	164.3
45°	8306.8	3525.1	479.8	281.9	235.3	201.6	181.1	162.4	145.6	138.2	136.3
47.5°	9432.7	3728.6	433.2	253.9	209.1	179.2	156.8	136.3	121.4	115.8	113.9
50°	10123.5	3769.7	403.3	222.2	183.0	155.0	132.6	113.9	104.6	99.0	99.0
52.5°	10439.1	3704.4	362.2	194.2	158.7	136.3	113.9	99.0	93.4	89.6	87.8
55°	10659.4	3603.5	308.1	168.0	136.3	115.8	100.8	89.6	82.2	78.4	76.6
57°	10788.2	3467.2	267.0	147.5	117.6	100.8	89.6	80.3	72.8	65.3	65.3
57.5°	10793.8	3415.0	255.8	145.6	112.0	97.1	87.8	78.4	69.1	61.6	59.7
60°	10627.6	3056.5	205.4	123.2	89.6	82.2	72.8	61.6	48.5	41.1	39.2
62.5°	10093.6	2600.9	169.9	104.6	72.8	63.5	52.3	46.7	33.6	24.3	24.3
65°	9285.2	2109.8	145.6	84.0	59.7	46.7	35.5	33.6	20.5	11.2	9.3
67.5°	8116.4	1643.1	123.2	69.1	50.4	33.6	24.3	22.4	11.2	3.7	0.0
70°	6183.9	1120.3	102.7	56.0	37.3	24.3	16.8	13.1	7.5	1.9	0.0
72.5°	3564.3	616.1	85.9	42.9	28.0	18.7	13.1	7.5	7.5	0.0	0.0
75°	1273.4	265.1	65.3	31.7	22.4	14.9	9.3	3.7	5.6	1.9	0.0
77.5°	405.2	141.9	42.9	24.3	18.7	11.2	7.5	3.7	3.7	1.9	0.0
80°	119.5	74.7	26.1	20.5	13.1	9.3	5.6	1.9	3.7	1.9	0.0
82.5°	65.3	37.3	20.5	14.9	13.1	7.5	5.6	1.9	1.9	1.9	0.0
85°	33.6	22.4	16.8	14.9	13.1	7.5	5.6	1.9	0.0	1.9	1.9
87.5°	18.7	16.8	16.8	14.9	13.1	9.3	5.6	1.9	0.0	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)