

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: P457778

Luminaire Tested: **GALN-SA9A-827-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457778  
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-SA9A-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA 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: 24400 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

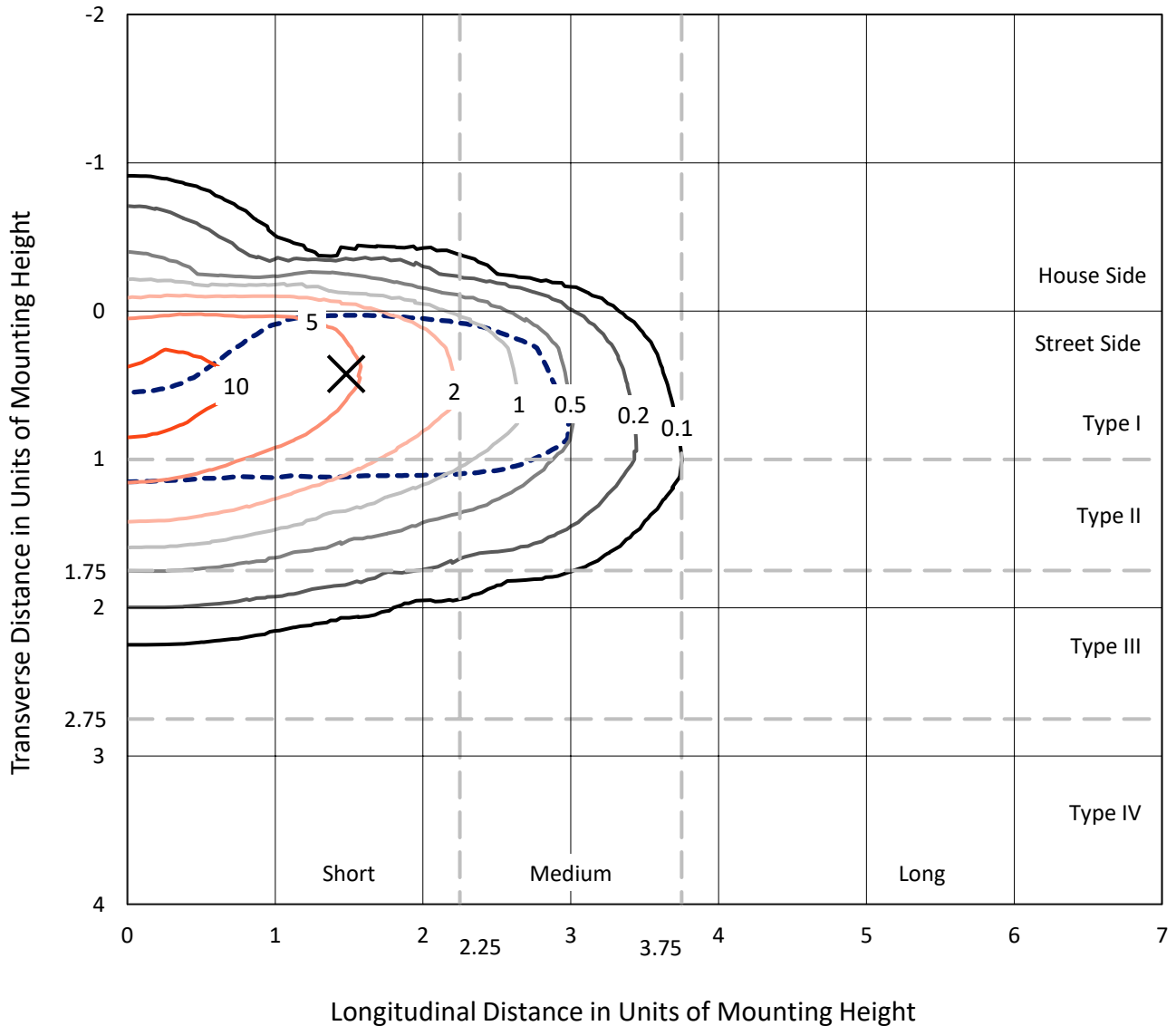
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

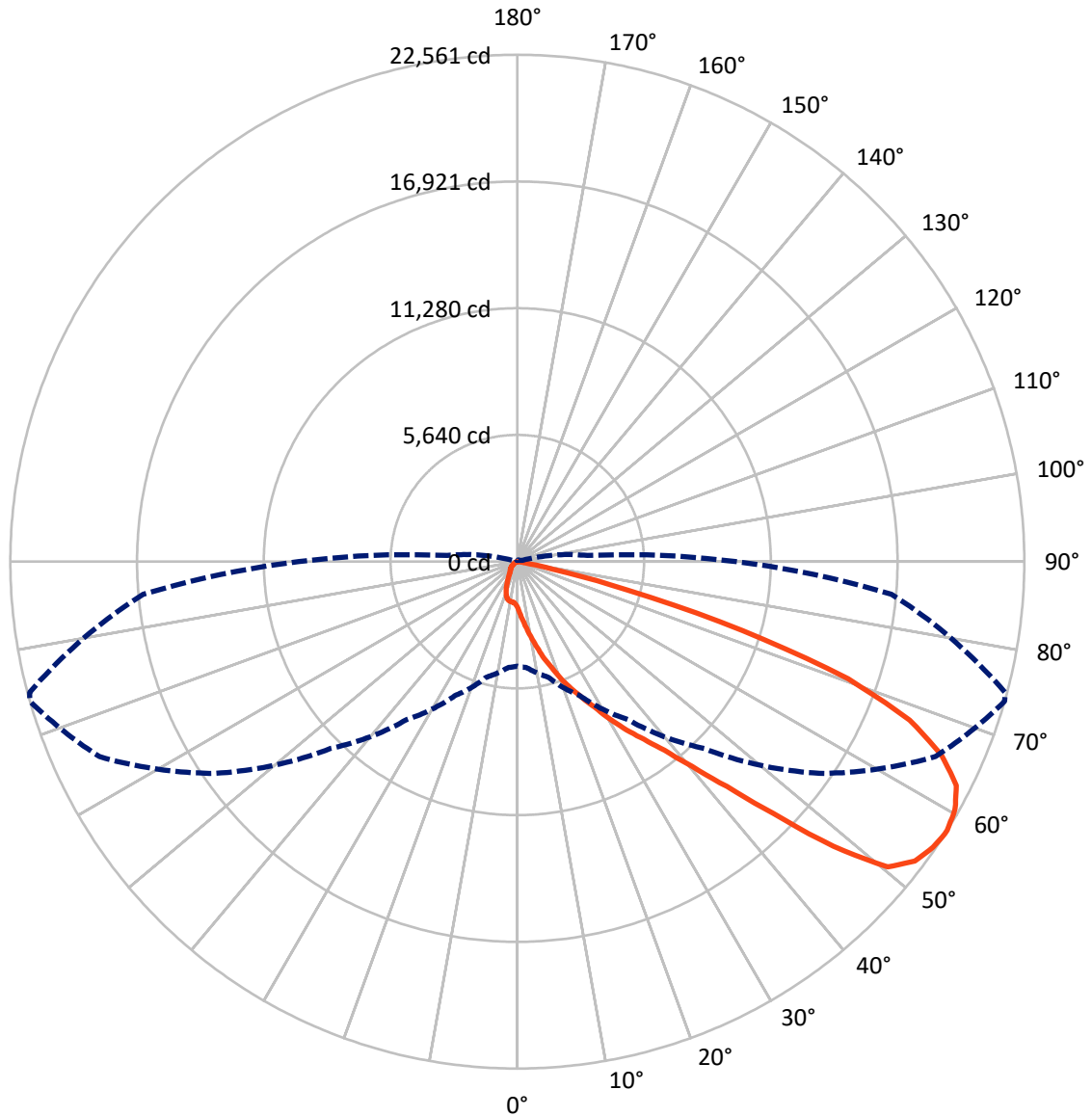
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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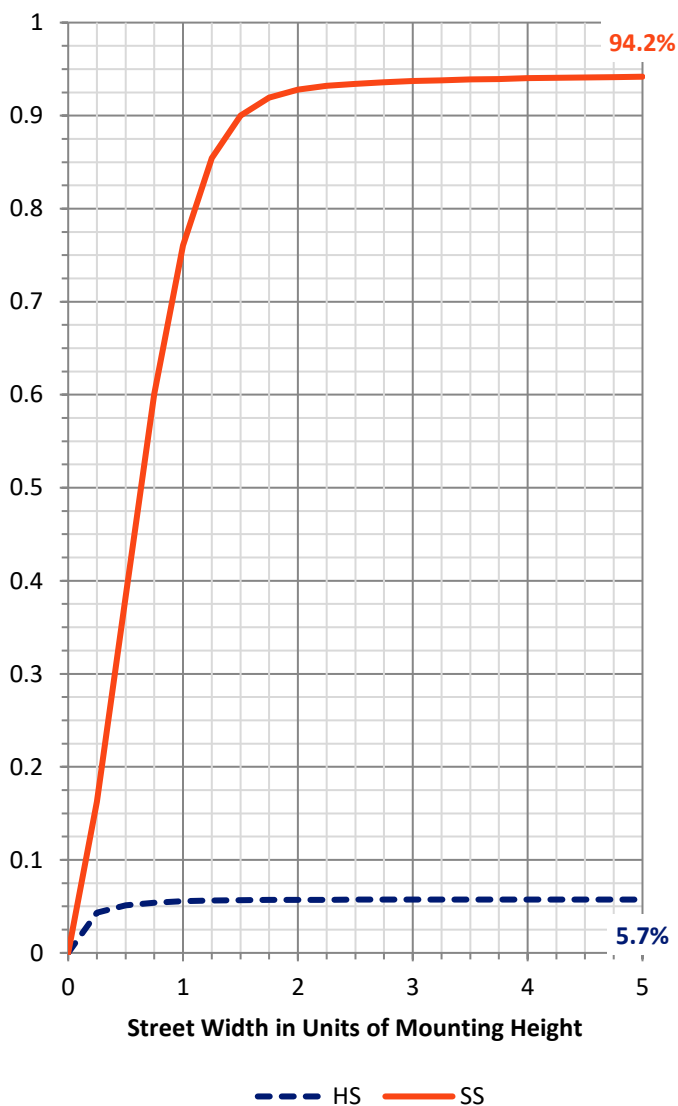
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1407.3	0.0	1407.3
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	22992.7	0.0	22992.7
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	24400.0	0.0	24400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.6	1.0
10°-20°	972.2	4.0
20°-30°	2080.3	8.5
30°-40°	3823.5	15.7
40°-50°	5861.5	24.0
50°-60°	6200.7	25.4
60°-70°	4049.2	16.6
70°-80°	1106.4	4.5
80°-90°	59.6	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°	24400.0	100.0
0°-180°	24400.0	100.0

**Coefficient of Utilization**



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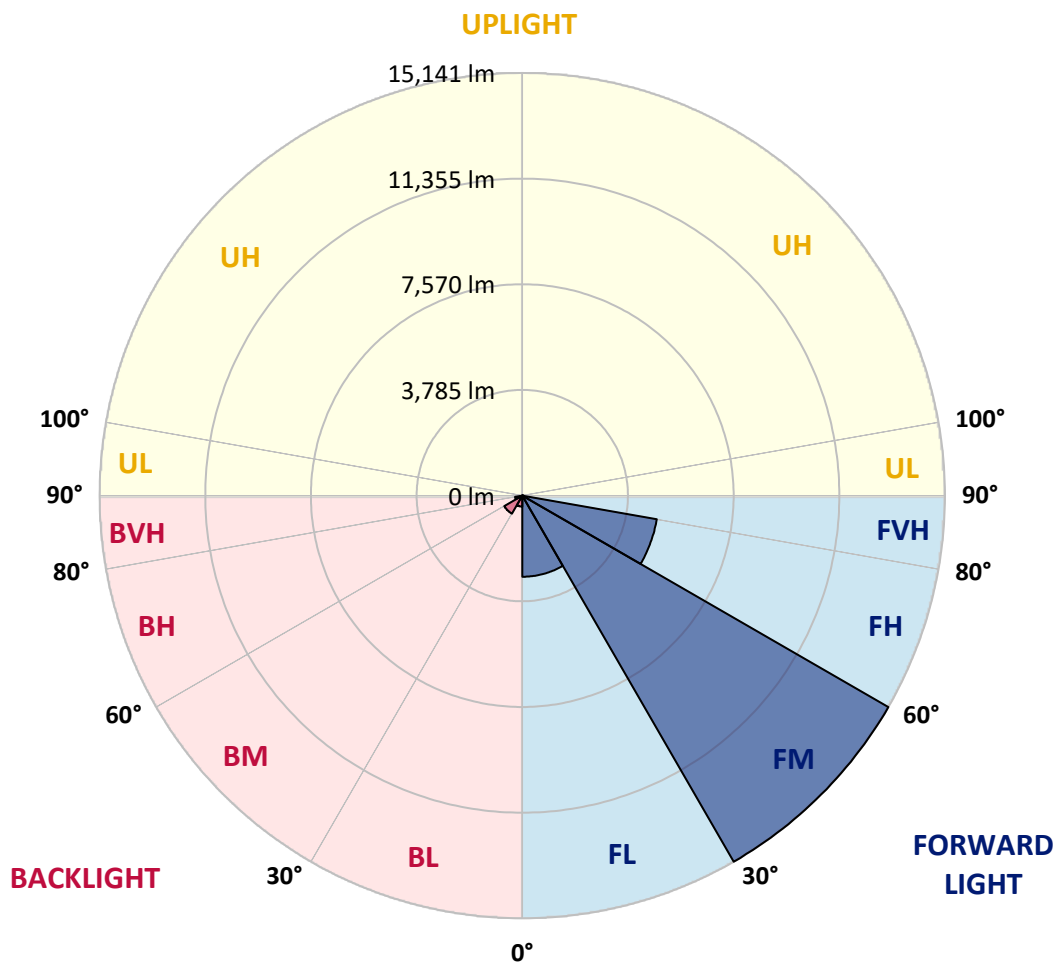
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2906.0	11.9			
FM (30°-60°)	15140.6	62.1			
FH (60°-80°)	4891.4	20.0			G2/5000
FVH (80°-90°)	54.6	0.2			G1/100
BL (0°-30°)	393.1	1.6	B1/500		
BM (30°-60°)	745.1	3.1	B1/1000		
BH (60°-80°)	264.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5
2.5°	2990.2	2963.3	2909.4	2890.8	2811.7	2688.7	2580.9	2436.0	2321.4	2309.6	2171.5
5°	4004.4	3943.7	3918.5	3797.2	3606.8	3428.2	3121.6	2889.2	2621.3	2601.1	2323.1
7.5°	4981.5	4897.2	4872.0	4757.4	4535.1	4253.7	3856.1	3433.3	3008.8	2970.0	2527.0
10°	5689.0	5700.8	5655.3	5579.5	5399.3	5112.9	4622.7	4044.8	3440.0	3391.2	2756.1
12.5°	6196.1	6194.4	6202.8	6201.2	6105.1	5887.8	5372.3	4706.9	3915.1	3819.1	3018.9
15°	6526.3	6531.3	6556.6	6644.2	6654.3	6519.6	6090.0	5340.3	4466.0	4346.4	3303.6
17.5°	6859.9	6895.2	6935.7	7018.2	7092.3	7038.4	6735.2	6000.7	4964.6	4875.3	3608.5
20°	7410.7	7459.6	7436.0	7486.5	7525.3	7530.3	7296.2	6610.5	5569.4	5419.5	3957.2
22.5°	8291.8	8290.1	8229.5	8138.5	8062.7	8059.3	7847.1	7237.2	6118.6	5973.7	4307.6
25°	9405.3	9410.4	9292.5	9033.0	8844.4	8613.6	8369.3	7786.4	6706.6	6528.0	4676.6
27.5°	10682.3	10650.3	10471.7	10114.6	9740.6	9346.4	8994.3	8424.9	7329.9	7181.6	5099.4
30°	11829.5	11817.7	11608.9	11172.5	10680.6	10284.7	9774.3	9225.1	8136.8	7954.9	5572.8
32.5°	12897.6	12914.4	12624.7	12173.2	11698.1	11241.6	10702.5	9989.9	8928.6	8670.8	6088.3
35°	13731.5	13748.3	13448.5	13072.8	12584.3	12205.2	11691.4	10805.3	9710.3	9492.9	6681.3
37.5°	14176.2	14198.1	14024.6	13741.6	13436.7	13246.3	12767.9	11854.8	10660.4	10529.0	7382.1
40°	14260.5	14285.7	14209.9	14134.1	14117.3	14253.7	14113.9	13091.3	11977.8	11772.3	8426.6
42.5°	14007.8	14041.5	14075.2	14243.6	14587.3	15087.6	15574.5	14769.2	13674.2	13397.9	9703.5
45°	13344.0	13340.7	13473.8	13910.1	14680.0	15748.0	17100.8	16870.0	15985.5	15657.0	11507.8
47.5°	12208.6	12191.7	12479.8	13101.4	14300.9	15869.3	18345.7	19420.5	18935.4	18632.1	13446.8
50°	10478.5	10561.0	11014.2	11881.8	13359.2	15502.1	18729.8	21093.4	21356.2	21034.4	15013.5
52.5°	8451.8	8448.5	9159.4	10337.0	11964.3	14693.4	18462.0	21396.6	22142.9	21896.9	15785.1
55°	6255.1	6298.9	7038.4	8226.1	10153.3	13217.7	17587.6	21085.0	22442.8	22269.3	16293.8
57°	4653.0	4730.5	5323.5	6580.2	8576.5	11757.1	16423.6	20527.3	22560.7	22466.4	16716.7
57.5°	4343.0	4346.4	4924.2	6066.4	8114.9	11196.1	16090.0	20294.9	22557.3	22505.1	16785.8
60°	2673.5	2757.8	3157.0	4100.4	5940.0	8738.2	13854.5	18958.9	22382.1	22457.9	17080.6
62.5°	1600.4	1635.8	1895.2	2471.4	3829.2	6378.0	11337.6	17249.0	21925.6	22156.4	17060.3
65°	1029.3	1037.7	1155.7	1496.0	2393.9	4311.0	8736.5	14989.9	20744.7	21169.2	16393.2
67.5°	795.2	808.6	855.8	982.1	1388.1	2685.3	6179.3	12579.2	18834.3	19381.8	14776.0
70°	705.9	712.6	729.4	769.9	918.1	1516.2	3844.3	9826.5	15618.3	15773.3	11563.4
72.5°	576.1	594.7	646.9	660.4	727.8	946.8	2139.5	6595.4	10493.6	10532.4	6469.0
75°	446.4	449.8	527.3	566.0	613.2	652.0	955.2	3325.5	5040.4	4770.9	2493.3
77.5°	333.6	348.7	384.1	433.0	500.3	466.6	427.9	1253.4	1565.0	1536.4	724.4
80°	213.9	222.4	267.9	325.1	389.2	304.9	240.9	367.3	343.7	353.8	173.5
82.5°	107.8	109.5	171.8	264.5	247.6	153.3	151.6	149.9	128.0	126.3	80.9
85°	11.8	25.3	111.2	151.6	111.2	50.5	70.8	69.1	67.4	69.1	47.2
87.5°	1.7	1.7	18.5	21.9	15.2	16.8	20.2	21.9	27.0	25.3	20.2
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°	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5	2043.5
2.5°	2104.1	2036.7	1912.1	1792.5	1703.2	1645.9	1571.8	1544.8	1506.1	1501.0	1482.5
5°	2195.1	2067.1	1849.7	1677.9	1539.8	1435.3	1344.3	1268.5	1207.9	1194.4	1201.1
7.5°	2324.8	2134.4	1831.2	1597.0	1405.0	1226.4	1081.5	992.3	928.2	904.7	908.0
10°	2471.4	2223.7	1827.8	1511.1	1218.0	999.0	840.6	761.5	724.4	710.9	695.8
12.5°	2644.9	2326.5	1819.4	1378.0	1012.5	796.8	684.0	636.8	601.4	591.3	591.3
15°	2840.3	2436.0	1779.0	1212.9	822.1	658.7	582.9	545.8	534.0	523.9	523.9
17.5°	3044.1	2543.8	1694.7	1009.1	682.3	564.4	517.2	495.3	478.4	466.6	466.6
20°	3276.6	2649.9	1560.0	828.8	576.1	503.7	466.6	441.4	427.9	417.8	414.4
22.5°	3497.3	2735.9	1388.1	680.6	502.0	453.2	419.5	392.5	379.0	374.0	374.0
25°	3726.4	2788.1	1180.9	562.7	458.2	411.1	374.0	352.1	340.3	336.9	335.2
27.5°	3948.8	2818.4	999.0	491.9	417.8	372.3	336.9	320.1	308.3	304.9	306.6
30°	4218.3	2823.5	822.1	441.4	382.4	335.2	303.2	288.1	281.3	278.0	276.3
32.5°	4491.3	2816.7	690.7	411.1	348.7	303.2	276.3	264.5	259.4	254.4	254.4
35°	4797.9	2781.3	587.9	380.7	316.7	276.3	252.7	242.6	235.8	230.8	229.1
37.5°	5178.6	2762.8	529.0	347.0	288.1	251.0	229.1	219.0	213.9	207.2	205.5
40°	5778.3	2845.4	510.4	316.7	259.4	227.4	207.2	195.4	188.7	181.9	180.3
42.5°	6526.3	2990.2	480.1	286.4	234.2	205.5	185.3	171.8	160.0	151.6	148.2
45°	7495.0	3180.6	433.0	254.4	212.3	181.9	163.4	146.6	131.4	124.7	123.0
47.5°	8510.8	3364.2	390.8	229.1	188.7	161.7	141.5	123.0	109.5	104.4	102.8
50°	9134.1	3401.3	363.9	200.5	165.1	139.8	119.6	102.8	94.3	89.3	89.3
52.5°	9418.8	3342.3	326.8	175.2	143.2	123.0	102.8	89.3	84.2	80.9	79.2
55°	9617.6	3251.4	278.0	151.6	123.0	104.4	91.0	80.9	74.1	70.8	69.1
57°	9733.8	3128.4	240.9	133.1	106.1	91.0	80.9	72.4	65.7	59.0	59.0
57.5°	9738.9	3081.2	230.8	131.4	101.1	87.6	79.2	70.8	62.3	55.6	53.9
60°	9589.0	2757.8	185.3	111.2	80.9	74.1	65.7	55.6	43.8	37.1	35.4
62.5°	9107.2	2346.7	153.3	94.3	65.7	57.3	47.2	42.1	30.3	21.9	21.9
65°	8377.7	1903.6	131.4	75.8	53.9	42.1	32.0	30.3	18.5	10.1	8.4
67.5°	7323.1	1482.5	111.2	62.3	45.5	30.3	21.9	20.2	10.1	3.4	0.0
70°	5579.5	1010.8	92.7	50.5	33.7	21.9	15.2	11.8	6.7	1.7	0.0
72.5°	3216.0	555.9	77.5	38.7	25.3	16.8	11.8	6.7	6.7	0.0	0.0
75°	1148.9	239.2	59.0	28.6	20.2	13.5	8.4	3.4	5.1	1.7	0.0
77.5°	365.6	128.0	38.7	21.9	16.8	10.1	6.7	3.4	3.4	1.7	0.0
80°	107.8	67.4	23.6	18.5	11.8	8.4	5.1	1.7	3.4	1.7	0.0
82.5°	59.0	33.7	18.5	13.5	11.8	6.7	5.1	1.7	1.7	1.7	0.0
85°	30.3	20.2	15.2	13.5	11.8	6.7	5.1	1.7	0.0	1.7	1.7
87.5°	16.8	15.2	15.2	13.5	11.8	8.4	5.1	1.7	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)