

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: P533694

Luminaire Tested: **GALN-SA9A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-827-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25783 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

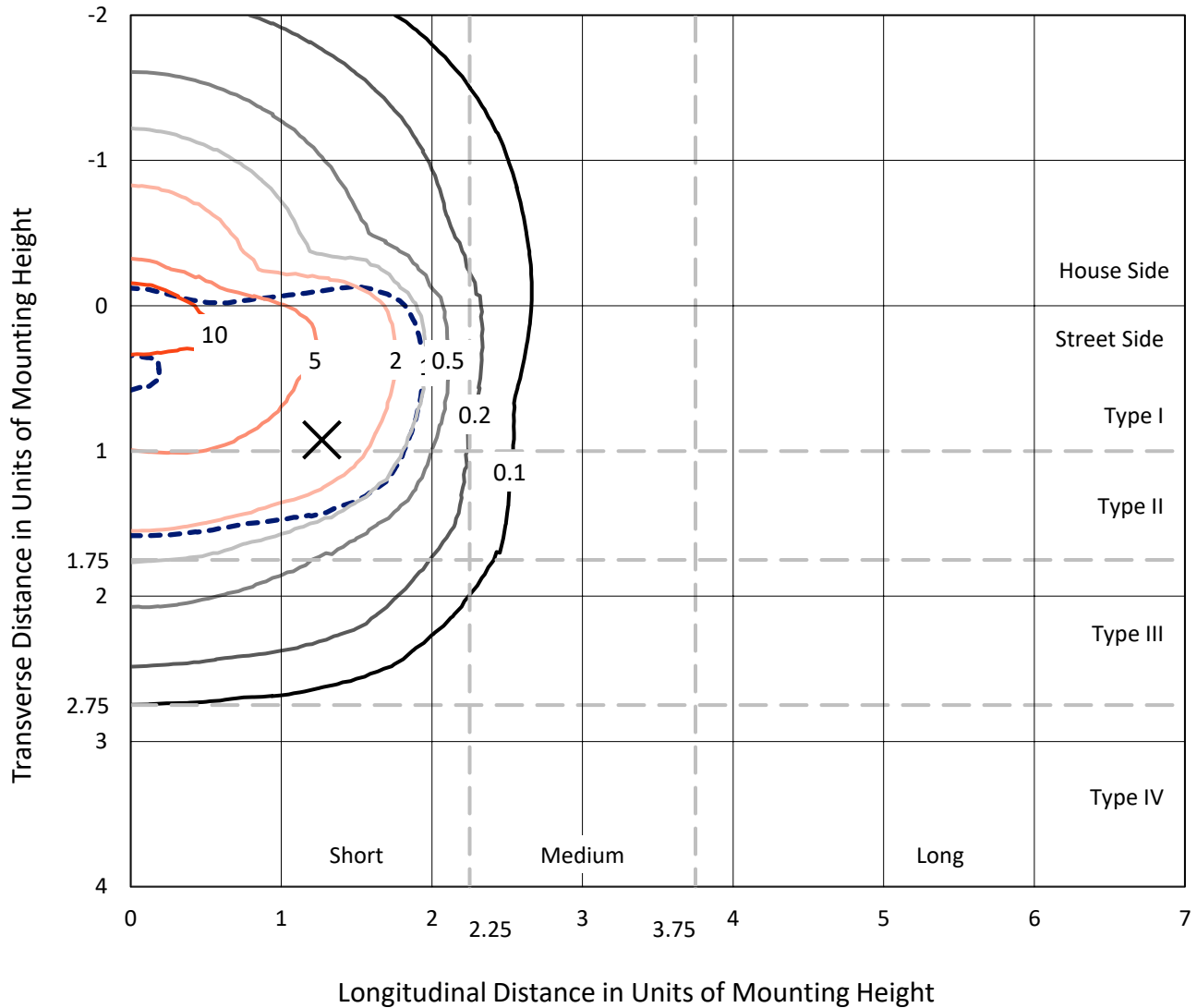
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

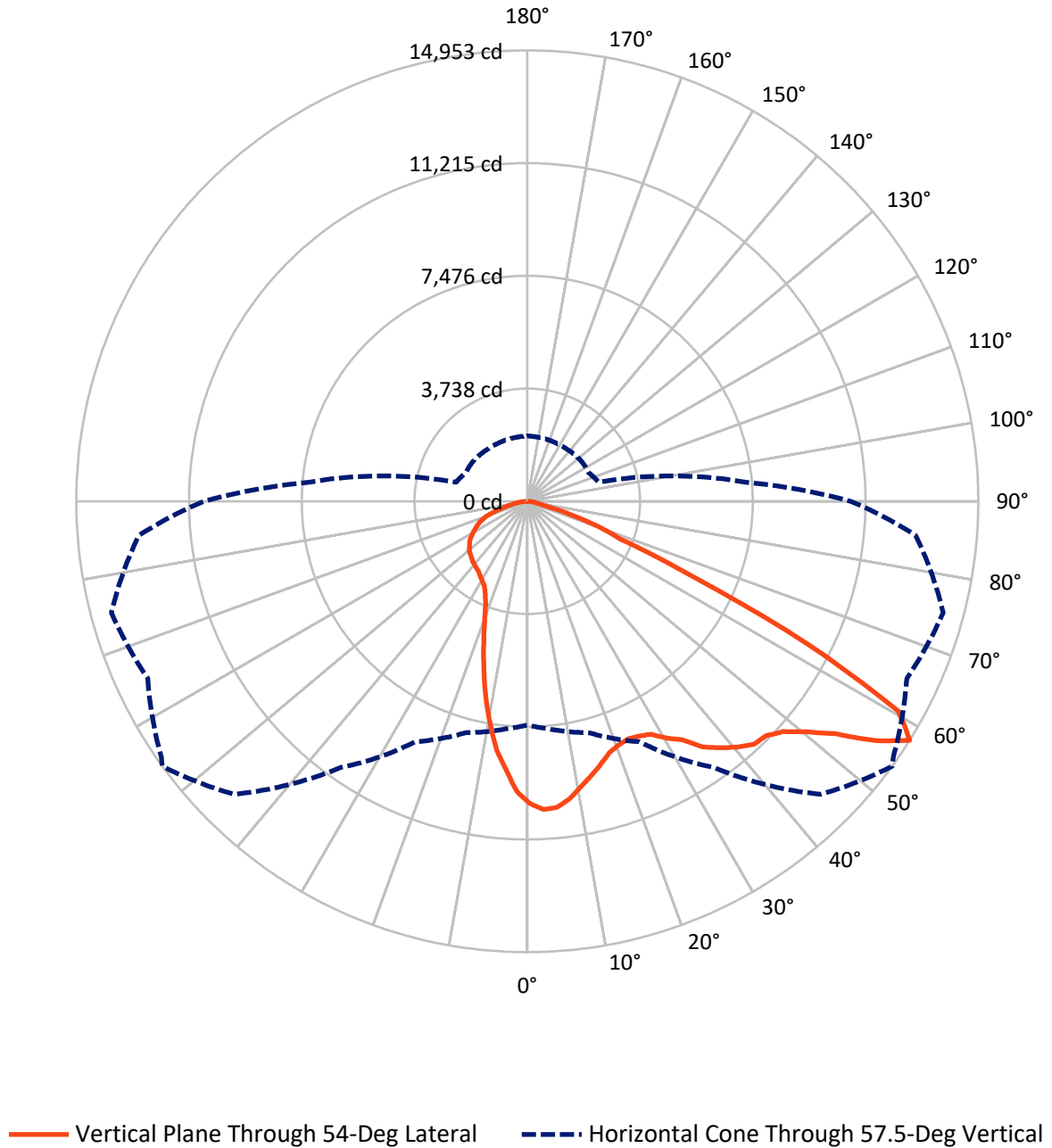
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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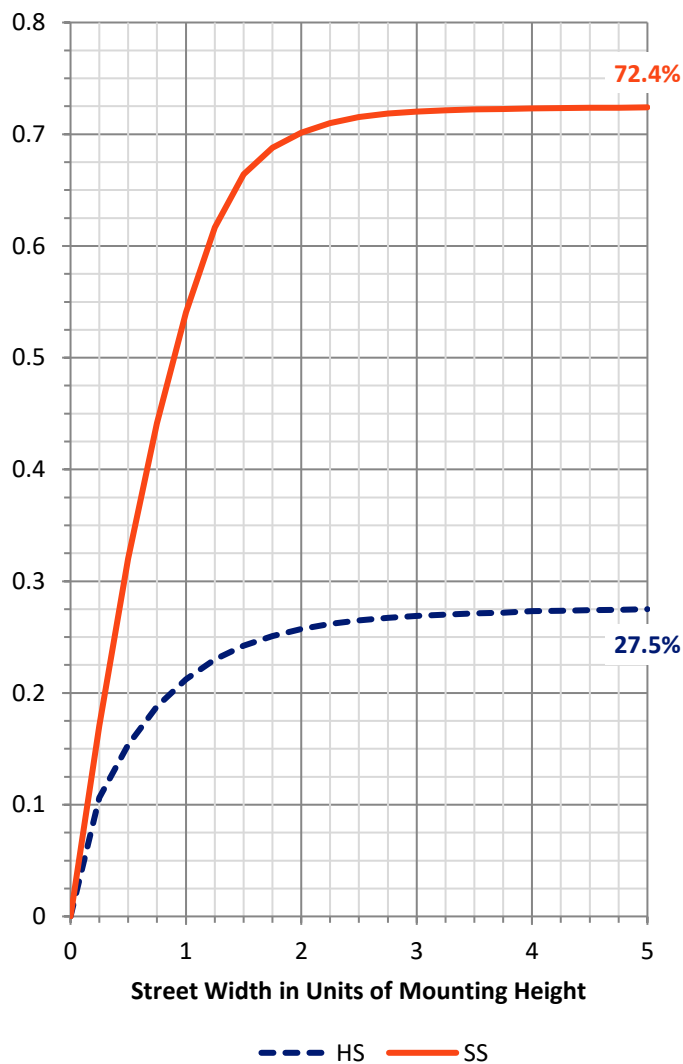
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7133.0	0.0	7133.0
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	18650.0	0.0	18650.0
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	25783.0	0.0	25783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	864.3	3.4
10°-20°	2001.1	7.8
20°-30°	2811.5	10.9
30°-40°	3930.6	15.2
40°-50°	5321.2	20.6
50°-60°	6481.5	25.1
60°-70°	3375.8	13.1
70°-80°	865.0	3.4
80°-90°	131.9	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°	25783.0	100.0
0°-180°	25783.0	100.0

**Coefficient of Utilization**



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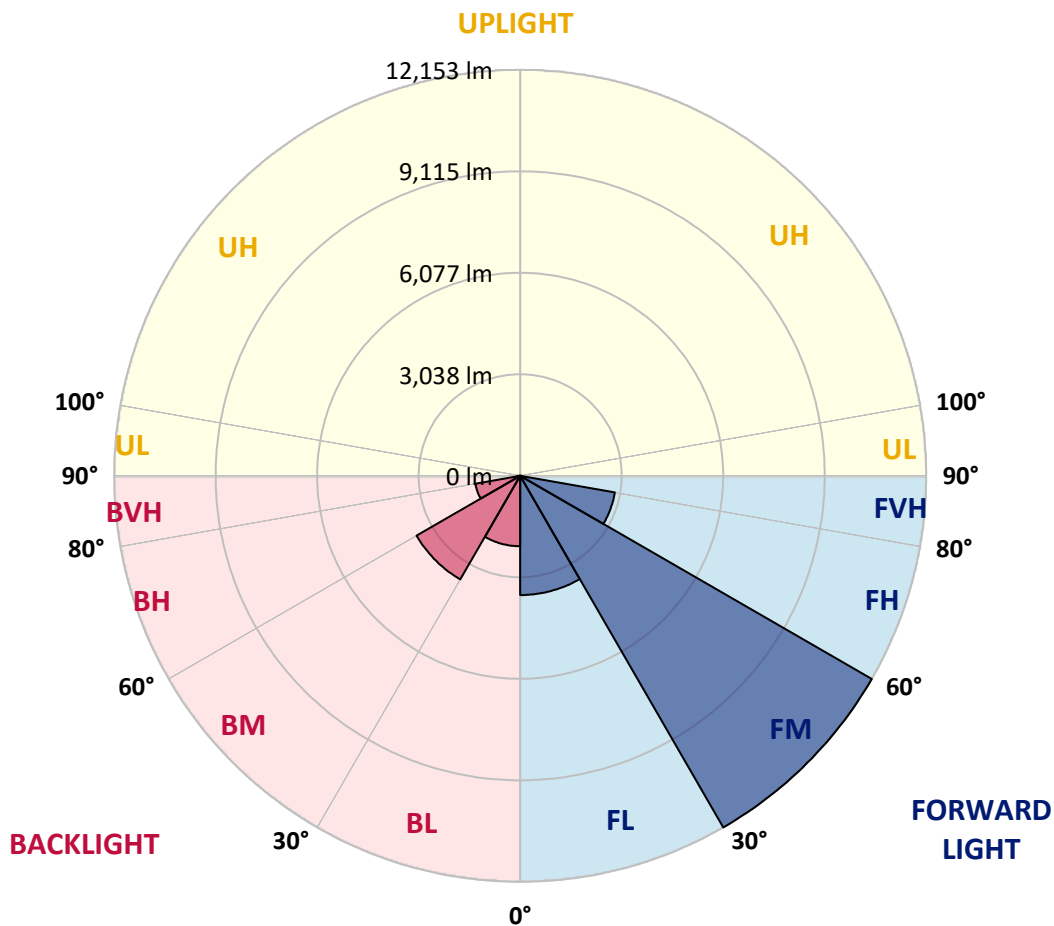
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3568.7	13.8			
FM (30°-60°)	12153.3	47.1			
FH (60°-80°)	2878.1	11.2			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	2108.2	8.2	B3/2500		
BM (30°-60°)	3580.0	13.9	B3/5000		
BH (60°-80°)	1362.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	82.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6
2.5°	10306.6	10266.8	10273.4	10326.4	10260.2	10233.7	10233.7	10104.4	10114.3	10024.9	10001.7
5°	10068.0	9975.2	10038.1	10117.7	10130.9	10157.4	10200.5	10167.4	10074.6	9978.5	9822.7
7.5°	9444.9	9527.8	9551.0	9607.3	9726.6	9836.0	9971.8	9879.1	9875.7	9779.6	9686.8
10°	8898.1	8848.4	8974.3	9057.2	9256.0	9438.3	9647.1	9637.1	9686.8	9577.5	9418.4
12.5°	8354.6	8314.8	8374.5	8563.4	8841.8	9106.9	9355.4	9262.6	9527.8	9507.9	9166.5
15°	7778.0	7807.8	7894.0	8069.6	8434.1	8752.3	9067.1	9070.4	9305.7	9385.3	8927.9
17.5°	7373.7	7340.5	7449.9	7711.7	8036.5	8417.6	8775.5	8848.4	9209.6	9256.0	8855.0
20°	7072.1	7118.5	7261.0	7393.5	7768.0	8228.7	8633.0	8659.5	9189.7	9315.7	8739.0
22.5°	6999.2	6972.7	7019.1	7234.5	7542.7	8043.1	8556.8	8656.2	9186.4	9295.8	8520.3
25°	6923.0	7009.1	7005.8	7221.2	7446.6	7894.0	8619.7	8729.1	9362.1	9398.5	8550.1
27.5°	7095.3	7085.3	7178.1	7194.7	7473.1	7933.7	8752.3	8835.1	9653.7	9623.9	8573.3
30°	7267.6	7217.9	7274.2	7469.8	7599.0	8162.4	9116.8	9110.2	10031.5	10011.6	8646.2
32.5°	7479.7	7456.5	7493.0	7665.3	7884.0	8467.3	9425.0	9620.6	10415.9	10541.9	8898.1
35°	7519.5	7615.6	7701.8	7933.7	8245.2	8961.1	10005.0	10167.4	10860.0	11254.4	9378.6
37.5°	7771.3	7807.8	8010.0	8420.9	8705.9	9620.6	10372.8	10475.6	11264.3	11711.7	9885.7
40°	8039.8	8082.9	8387.8	8818.6	9209.6	10051.4	10717.5	10750.6	11393.6	12063.0	10217.1
42.5°	8404.3	8444.1	8745.7	9285.8	9809.5	10419.2	11022.4	11058.8	11383.6	12467.3	10744.0
45°	8782.1	8878.2	9232.8	9845.9	10316.5	10850.1	11092.0	11241.1	11476.4	12828.5	11171.5
47.5°	9312.4	9401.8	9693.5	10293.3	10843.4	11227.9	11413.4	11559.3	11698.4	13143.4	11446.6
50°	9875.7	9892.3	10246.9	10790.4	11194.7	11655.4	12013.3	12063.0	11990.1	13507.9	11913.9
52.5°	10290.0	10343.0	10618.1	11148.3	11751.5	12318.2	12808.6	12861.7	12719.2	13643.8	12072.9
55°	9604.0	9574.2	10021.6	10727.4	12126.0	13305.7	14018.2	14058.0	13249.4	14064.6	12593.2
57.5°	7423.4	7565.9	7947.0	8798.7	10773.8	13743.2	14952.8	14810.3	13885.7	14276.7	12924.6
60°	5395.2	5362.1	5617.2	6187.3	8119.3	11844.3	14137.6	14283.4	13365.4	12868.3	10657.8
62.5°	4394.4	4348.0	4367.9	4387.7	5239.4	7860.8	10465.6	10462.3	10293.3	9249.4	7188.1
65°	3512.8	3622.2	3632.2	3781.3	3890.6	4695.9	6064.6	6389.4	5564.2	4563.4	3310.7
67.5°	2647.9	2608.1	2740.7	3270.9	3476.4	3390.2	3310.7	3347.1	2379.5	1716.7	1617.2
70°	1560.9	1544.3	1703.4	2280.0	2863.3	2694.3	2495.4	2498.8	1633.8	1199.7	1335.5
72.5°	855.0	851.7	884.8	1156.6	1627.2	1690.1	1497.9	1544.3	974.3	971.0	1043.9
75°	477.2	467.3	457.3	510.4	586.6	619.7	633.0	639.6	669.4	749.0	778.8
77.5°	175.6	169.0	169.0	195.5	248.6	311.5	394.4	401.0	473.9	543.5	573.3
80°	59.7	66.3	89.5	122.6	165.7	222.0	268.4	275.1	334.7	381.1	391.1
82.5°	36.5	39.8	59.7	86.2	119.3	155.8	198.8	202.2	248.6	278.4	291.6
85°	16.6	19.9	33.1	53.0	76.2	102.7	106.0	106.0	102.7	106.0	99.4
87.5°	0.0	0.0	6.6	6.6	6.6	9.9	13.3	9.9	16.6	19.9	19.9
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°	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6	10021.6
2.5°	9932.1	9895.6	9782.9	9683.5	9653.7	9521.1	9325.6	9348.8	9206.3	9272.6	9203.0
5°	9796.2	9673.6	9385.3	9262.6	8941.2	8795.4	8696.0	8447.4	8331.4	8308.2	8208.8
7.5°	9448.2	9372.0	9010.8	8679.4	8338.0	8046.4	7671.9	7416.7	7234.5	7184.8	7039.0
10°	9173.2	9004.2	8503.7	8000.0	7512.9	7005.8	6518.7	6137.5	5952.0	5736.5	5663.6
12.5°	8901.4	8646.2	7970.2	7324.0	6694.3	6054.7	5464.8	5000.8	4596.5	4500.4	4467.3
15°	8732.4	8288.3	7493.0	6714.2	5819.4	4984.3	4394.4	4089.5	3840.9	3738.2	3811.1
17.5°	8510.4	7993.4	7035.6	5998.4	5014.1	4245.2	3751.5	3562.6	3473.1	3483.0	3453.2
20°	8232.0	7715.0	6435.8	5348.8	4295.0	3681.9	3400.2	3330.6	3343.8	3367.0	3357.1
22.5°	8033.2	7377.0	6001.7	4686.0	3711.7	3370.3	3254.4	3204.6	3247.7	3267.6	3251.0
25°	7880.7	7088.7	5474.7	4099.4	3373.7	3194.7	3141.7	3138.4	3204.6	3231.2	3214.6
27.5°	7741.5	6820.2	4951.1	3652.0	3148.3	3058.8	3042.3	3082.0	3125.1	3151.6	3174.8
30°	7658.7	6614.8	4460.7	3277.6	3035.6	2992.5	2962.7	2999.2	3022.4	3048.9	3035.6
32.5°	7738.2	6468.9	3986.8	3065.5	2942.8	2899.8	2939.5	2916.3	2956.1	2979.3	2942.8
35°	7986.8	6339.7	3648.7	2952.8	2836.8	2853.4	2860.0	2850.0	2866.6	2846.7	2889.8
37.5°	8232.0	6293.3	3337.2	2856.7	2787.1	2787.1	2780.5	2760.6	2793.7	2787.1	2807.0
40°	8543.5	6323.1	3072.1	2753.9	2740.7	2734.1	2707.5	2704.2	2691.0	2694.3	2700.9
42.5°	8815.3	6389.4	2919.6	2687.7	2697.6	2710.9	2661.1	2621.4	2637.9	2604.8	2604.8
45°	9103.6	6449.1	2783.8	2641.3	2631.3	2628.0	2588.2	2565.0	2551.8	2555.1	2584.9
47.5°	9557.6	6535.2	2681.0	2578.3	2584.9	2535.2	2525.3	2495.4	2508.7	2528.6	2531.9
50°	9879.1	6717.5	2601.5	2505.4	2528.6	2495.4	2435.8	2422.5	2422.5	2455.7	2449.1
52.5°	10104.4	6972.7	2525.3	2425.9	2435.8	2409.3	2389.4	2359.6	2339.7	2386.1	2409.3
55°	10793.7	7396.9	2505.4	2359.6	2356.3	2329.7	2293.3	2263.5	2253.5	2260.2	2306.5
57.5°	10727.4	7264.3	2442.4	2243.6	2237.0	2200.5	2164.0	2154.1	2150.8	2157.4	2170.7
60°	8709.2	5365.4	2180.6	2111.0	2101.1	2094.5	2058.0	2018.2	1998.3	2018.2	2001.7
62.5°	5763.1	3592.4	1922.1	1952.0	1958.6	1942.0	1882.4	1842.6	1849.2	1872.4	1836.0
65°	2830.2	2111.0	1743.2	1822.7	1829.3	1782.9	1726.6	1680.2	1657.0	1676.9	1660.3
67.5°	1617.2	1613.9	1597.4	1680.2	1676.9	1630.5	1541.0	1501.2	1461.5	1468.1	1458.2
70°	1372.0	1398.5	1431.7	1481.4	1478.0	1425.0	1319.0	1289.1	1232.8	1226.2	1209.6
72.5°	1080.4	1126.8	1199.7	1236.1	1206.3	1140.0	1070.4	1020.7	971.0	941.2	951.1
75°	802.0	868.3	908.0	931.2	884.8	848.4	792.0	732.4	672.7	646.2	636.3
77.5°	583.3	603.1	639.6	656.2	626.3	589.9	556.8	497.1	440.8	404.3	394.4
80°	407.6	420.9	447.4	447.4	447.4	430.8	387.7	328.1	291.6	258.5	251.9
82.5°	285.0	298.3	324.8	311.5	308.2	288.3	261.8	215.4	175.6	152.4	145.8
85°	99.4	109.4	132.6	159.1	169.0	165.7	149.1	119.3	92.8	76.2	69.6
87.5°	23.2	23.2	26.5	23.2	23.2	26.5	23.2	23.2	23.2	16.6	13.3
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)