

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: P457631

Luminaire Tested: **GALN-SA9A-727-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25919 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

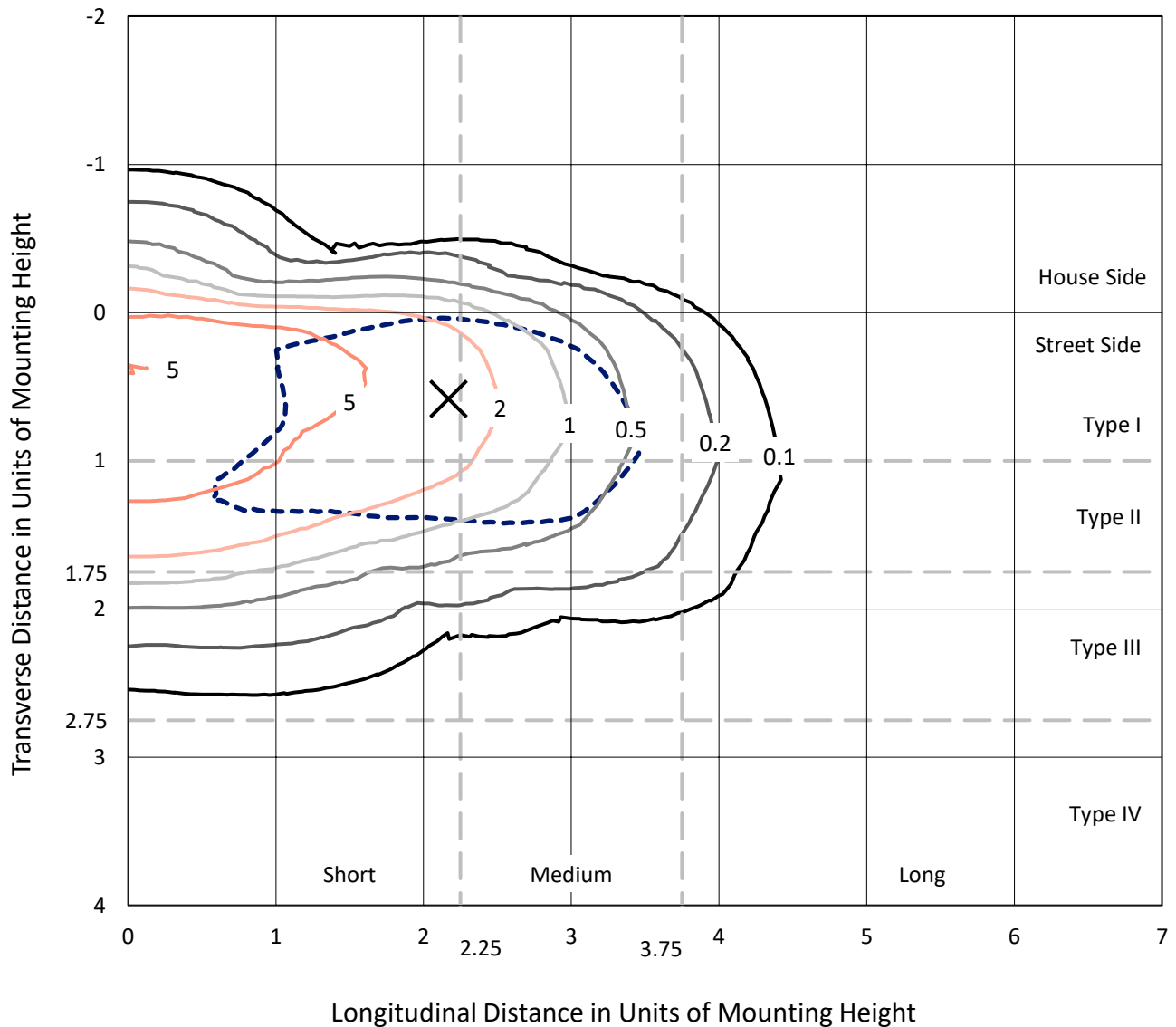
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

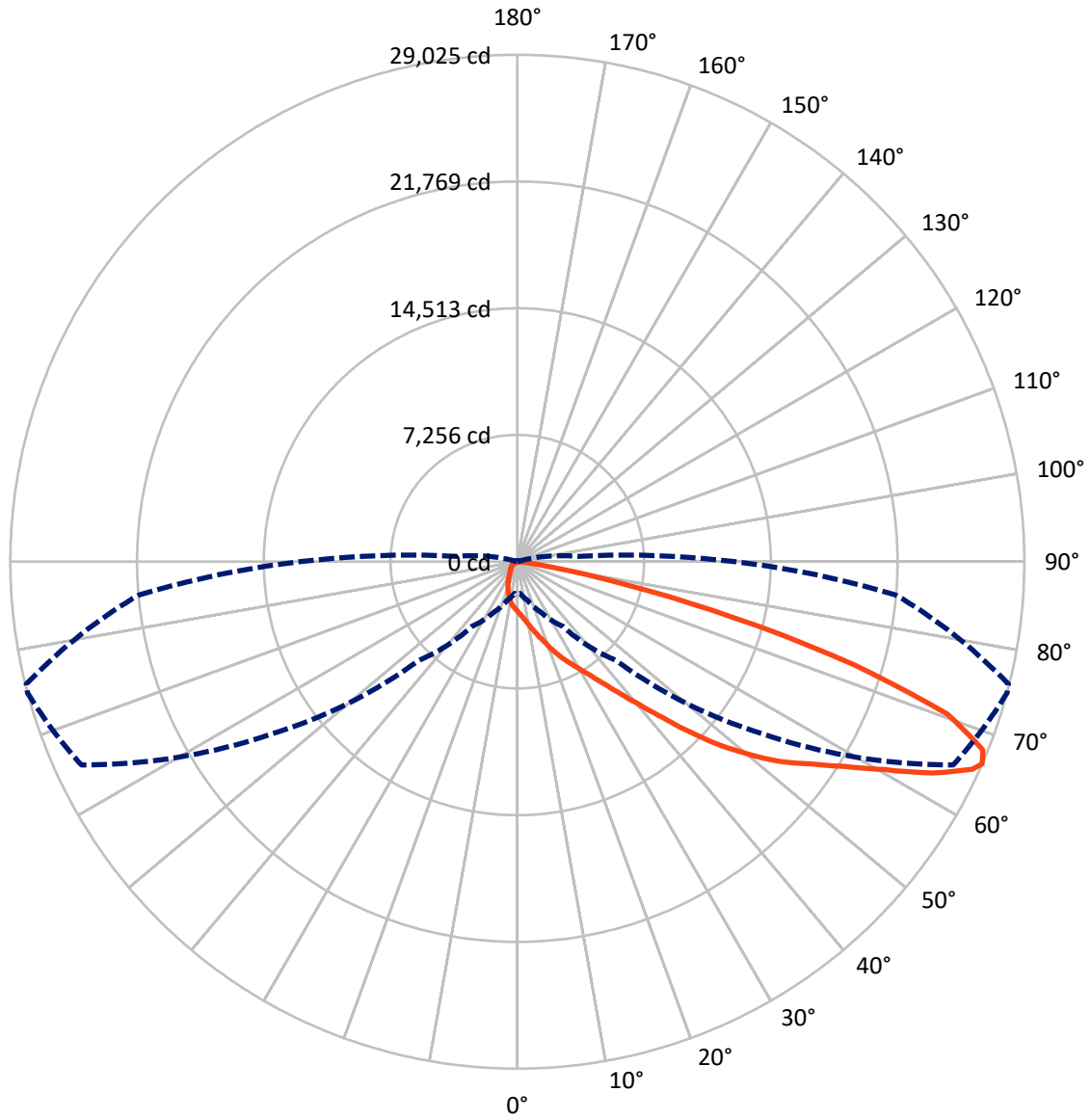
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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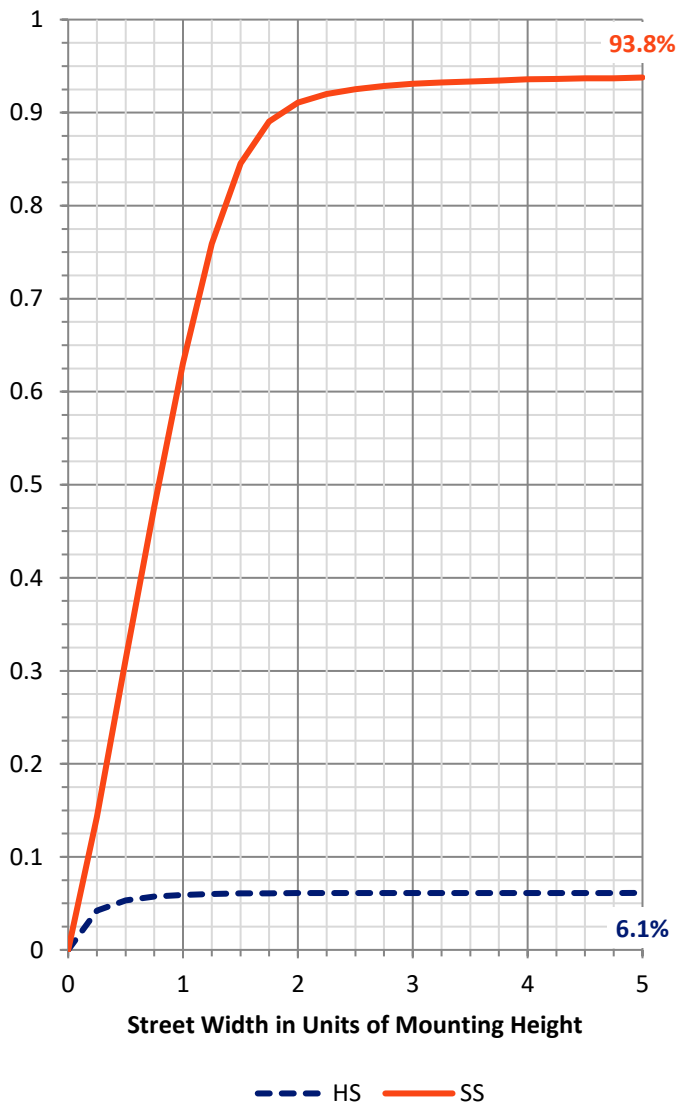
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1600.1	0.0	1600.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	24318.9	0.0	24318.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	25919.0	0.0	25919.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.4	1.1
10°-20°	804.6	3.1
20°-30°	1389.4	5.4
30°-40°	2506.2	9.7
40°-50°	4527.4	17.5
50°-60°	7058.3	27.2
60°-70°	6705.1	25.9
70°-80°	2512.9	9.7
80°-90°	141.8	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°	25919.0	100.0
0°-180°	25919.0	100.0



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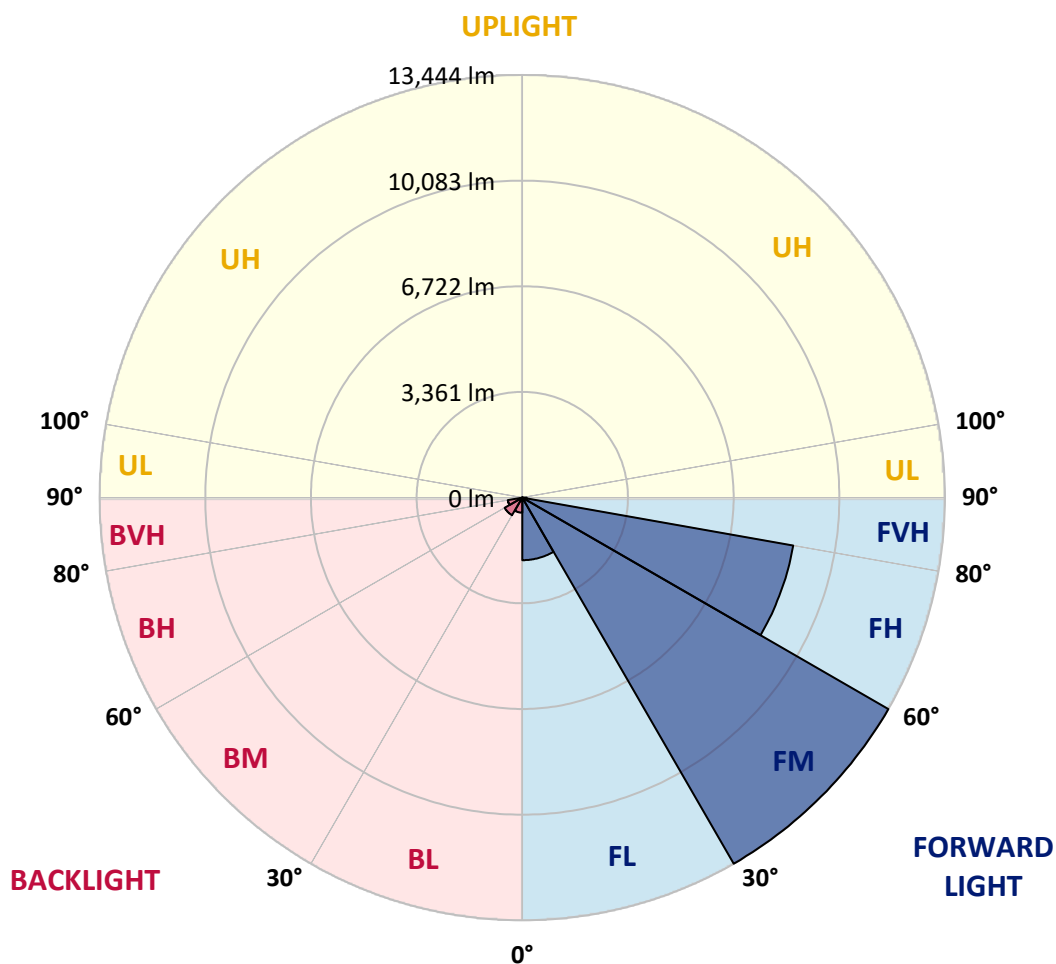
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1989.5	7.7			
FM (30°-60°)	13444.2	51.9			
FH (60°-80°)	8750.7	33.8			G4/12000
FVH (80°-90°)	134.5	0.5			G2/225
BL (0°-30°)	477.9	1.8	B1/500		
BM (30°-60°)	647.7	2.5	B1/1000		
BH (60°-80°)	467.2	1.8	B1/500		G1/500
BVH (80°-90°)	7.3	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5
2.5°	3386.4	3344.3	3357.7	3338.5	3294.5	3229.3	3171.8	3089.4	3007.0	2993.6	2901.6
5°	3833.0	3821.5	3806.2	3750.6	3719.9	3620.3	3501.4	3359.6	3189.1	3158.4	2991.7
7.5°	4137.7	4132.0	4139.6	4110.9	4084.1	3994.0	3867.5	3673.9	3409.4	3392.2	3114.3
10°	4237.4	4252.7	4281.5	4327.4	4369.6	4340.9	4245.0	4003.6	3695.0	3645.2	3254.2
12.5°	4179.9	4197.1	4266.1	4388.8	4524.8	4603.4	4565.1	4388.8	3997.8	3957.6	3411.4
15°	4032.3	4053.4	4151.1	4340.9	4584.3	4806.6	4902.4	4775.9	4350.4	4285.3	3601.1
17.5°	3813.8	3844.5	3984.4	4235.5	4568.9	4952.2	5222.5	5180.3	4726.1	4664.8	3808.1
20°	3649.0	3672.0	3790.8	4078.3	4503.8	5032.7	5527.2	5646.0	5189.9	5084.5	4051.5
22.5°	3758.3	3765.9	3806.2	3978.6	4386.9	5053.8	5795.5	6130.9	5682.4	5588.5	4304.5
25°	4293.0	4216.3	4176.0	4137.7	4361.9	5034.6	6038.9	6636.8	6173.0	6073.4	4555.5
27.5°	5136.2	5101.7	4898.6	4626.4	4574.7	5059.6	6199.9	7116.0	6634.9	6527.6	4800.8
30°	6054.2	5994.8	5870.2	5471.6	5071.1	5235.9	6316.8	7581.7	7181.1	7039.3	5025.1
32.5°	6897.5	6935.8	6749.9	6339.8	5876.0	5611.5	6468.2	8089.5	7807.8	7631.5	5285.7
35°	7880.6	7957.3	7671.7	7278.9	6736.5	6289.9	6763.3	8662.6	8603.2	8380.8	5688.2
37.5°	8879.1	8925.1	8750.7	8198.8	7710.1	7152.4	7319.1	9369.8	9582.5	9392.8	6169.2
40°	9718.6	9781.8	9653.4	9162.8	8641.5	8150.9	8125.9	10140.2	10747.7	10552.2	6886.0
42.5°	10360.6	10408.5	10412.3	10065.4	9595.9	9373.6	9155.1	11123.3	12208.1	11981.9	7717.7
45°	11171.3	11240.3	11200.0	10964.3	10613.6	10573.3	10460.2	12311.6	13955.9	13670.4	8796.7
47.5°	12424.6	12470.6	12371.0	12093.1	11736.6	11799.9	11732.8	13643.5	15738.3	15493.0	9914.0
50°	13294.7	13371.4	13513.2	13624.4	13365.6	13131.8	12932.5	14887.3	17430.5	17210.1	11056.3
52.5°	13285.2	13411.6	13860.1	14419.7	14985.1	14914.2	14341.1	16261.5	19046.1	18774.0	12129.5
55°	12390.2	12635.5	13294.7	14287.5	15853.3	16633.3	16372.6	17852.2	20441.4	20257.4	13373.3
57.5°	10542.6	10692.1	11608.2	12995.8	15368.4	17442.0	18726.1	20008.2	22114.5	22028.2	15305.1
60°	7091.0	7158.1	8336.8	10052.0	13083.9	16635.2	20450.9	22616.6	24174.7	24132.5	17560.9
62.5°	4063.0	4091.7	4946.5	6393.4	9310.3	14097.8	20596.6	25834.4	26645.1	26668.1	20171.1
65°	2186.7	2202.1	2892.0	3752.5	5665.2	10048.2	18521.0	27597.6	28642.0	28686.1	21788.7
66°	1887.7	1814.9	2301.7	3198.6	4507.6	7997.5	17208.2	27534.3	29025.3	28977.4	21731.2
67.5°	1435.5	1500.6	1837.9	2458.9	3340.5	5686.2	14207.0	26309.7	28734.0	28584.6	20847.7
70°	1027.2	1054.1	1309.0	1753.6	2274.9	3120.1	9078.4	21851.9	26116.1	25914.9	18162.6
72.5°	663.1	691.9	927.6	1268.7	1644.4	1703.8	5082.5	15788.1	20134.7	20106.0	13678.0
75°	473.4	500.2	613.3	908.4	1236.1	1054.1	2447.4	10640.4	12800.3	12714.0	8461.3
77.5°	343.1	356.5	410.1	594.1	883.5	755.1	1134.6	5682.4	6372.4	6673.2	3739.1
80°	197.4	208.9	285.6	362.2	597.9	515.5	542.4	2280.6	2351.5	2238.5	1169.1
82.5°	97.7	111.2	170.6	247.2	373.7	346.9	249.1	686.1	724.4	705.3	295.1
85°	23.0	28.7	95.8	162.9	182.1	155.2	120.7	201.2	249.1	243.4	113.1
87.5°	1.9	3.8	34.5	28.7	30.7	51.7	42.2	51.7	80.5	74.7	40.2
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°	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5	2834.5
2.5°	2859.4	2823.0	2717.6	2614.1	2527.9	2437.8	2355.4	2307.5	2288.3	2267.2	2276.8
5°	2899.7	2811.5	2598.8	2414.8	2234.6	2081.3	1958.7	1880.1	1841.8	1836.0	1826.4
7.5°	2953.3	2801.9	2472.3	2184.8	1949.1	1778.5	1638.6	1525.5	1491.0	1460.4	1435.5
10°	3018.5	2784.7	2315.1	1943.3	1692.3	1477.6	1293.6	1159.5	1090.5	1071.3	1084.7
12.5°	3087.5	2752.1	2150.3	1721.0	1431.6	1157.6	987.0	919.9	900.8	893.1	895.0
15°	3156.5	2711.8	1977.8	1506.4	1140.3	923.8	845.2	827.9	820.3	816.4	812.6
17.5°	3219.7	2646.7	1784.3	1297.5	923.8	789.6	760.8	745.5	730.2	724.4	714.9
20°	3294.5	2571.9	1609.9	1063.7	781.9	714.9	680.4	651.6	628.6	613.3	611.4
22.5°	3365.4	2476.1	1427.8	881.6	712.9	642.0	586.4	555.8	529.0	509.8	515.5
25°	3403.7	2359.2	1264.9	768.5	649.7	569.2	507.9	469.5	440.8	431.2	429.3
27.5°	3403.7	2215.5	1105.8	703.4	592.2	504.0	440.8	404.4	385.2	371.8	373.7
30°	3376.9	2056.4	958.2	653.5	542.4	446.5	387.1	354.6	339.2	329.6	327.7
32.5°	3355.8	1905.0	831.8	605.6	490.6	396.7	345.0	320.1	304.7	295.1	295.1
35°	3388.4	1774.7	734.0	557.7	442.7	358.4	312.4	289.4	274.1	266.4	264.5
37.5°	3474.6	1655.9	659.3	506.0	398.6	325.8	289.4	262.6	247.2	237.6	233.8
40°	3687.3	1588.8	603.7	458.0	356.5	299.0	262.6	237.6	218.5	208.9	207.0
42.5°	4028.5	1590.7	550.0	414.0	323.9	276.0	239.6	210.8	189.7	180.2	178.2
45°	4542.1	1663.5	507.9	371.8	295.1	251.1	214.6	184.0	164.8	155.2	155.2
47.5°	5157.3	1805.3	471.5	335.4	268.3	228.1	189.7	159.1	139.9	132.2	132.2
50°	5824.2	1989.3	435.0	297.1	245.3	203.1	162.9	138.0	122.7	116.9	116.9
52.5°	6504.6	2211.6	398.6	266.4	220.4	176.3	139.9	122.7	109.2	105.4	103.5
55°	7397.7	2495.3	360.3	233.8	193.6	151.4	124.6	107.3	92.0	86.2	84.3
57.5°	8771.8	2922.7	318.1	205.1	159.1	126.5	107.3	90.1	72.8	63.2	61.3
60°	10429.6	3443.9	274.1	180.2	128.4	103.5	86.2	69.0	53.7	42.2	40.2
62.5°	11981.9	3775.5	231.9	151.4	101.6	78.6	61.3	51.7	38.3	26.8	24.9
65°	12668.0	3664.3	191.6	122.7	80.5	55.6	40.2	36.4	23.0	11.5	9.6
66°	12440.0	3499.5	176.3	111.2	72.8	47.9	34.5	30.7	17.2	5.7	5.7
67.5°	11767.3	3110.5	153.3	95.8	63.2	38.3	26.8	23.0	9.6	1.9	0.0
70°	10082.7	2516.4	120.7	70.9	46.0	26.8	15.3	11.5	5.7	0.0	0.0
72.5°	7744.6	1874.3	95.8	53.7	32.6	15.3	7.7	3.8	5.7	0.0	0.0
75°	4745.2	1071.3	74.7	40.2	21.1	9.6	5.7	0.0	5.7	1.9	0.0
77.5°	2106.2	481.0	49.8	26.8	15.3	7.7	3.8	0.0	3.8	1.9	0.0
80°	532.8	157.2	28.7	19.2	11.5	5.7	1.9	0.0	3.8	3.8	1.9
82.5°	145.7	57.5	21.1	15.3	9.6	5.7	1.9	0.0	3.8	3.8	3.8
85°	57.5	26.8	19.2	15.3	11.5	5.7	1.9	0.0	3.8	3.8	3.8
87.5°	26.8	19.2	19.2	17.2	13.4	5.7	1.9	0.0	3.8	1.9	3.8
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)