

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: P455806

Luminaire Tested: **GALN-SA7A-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455806  
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-SA7A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 23225 lumens  
Efficiency: N/A  
Efficacy: 108.0 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

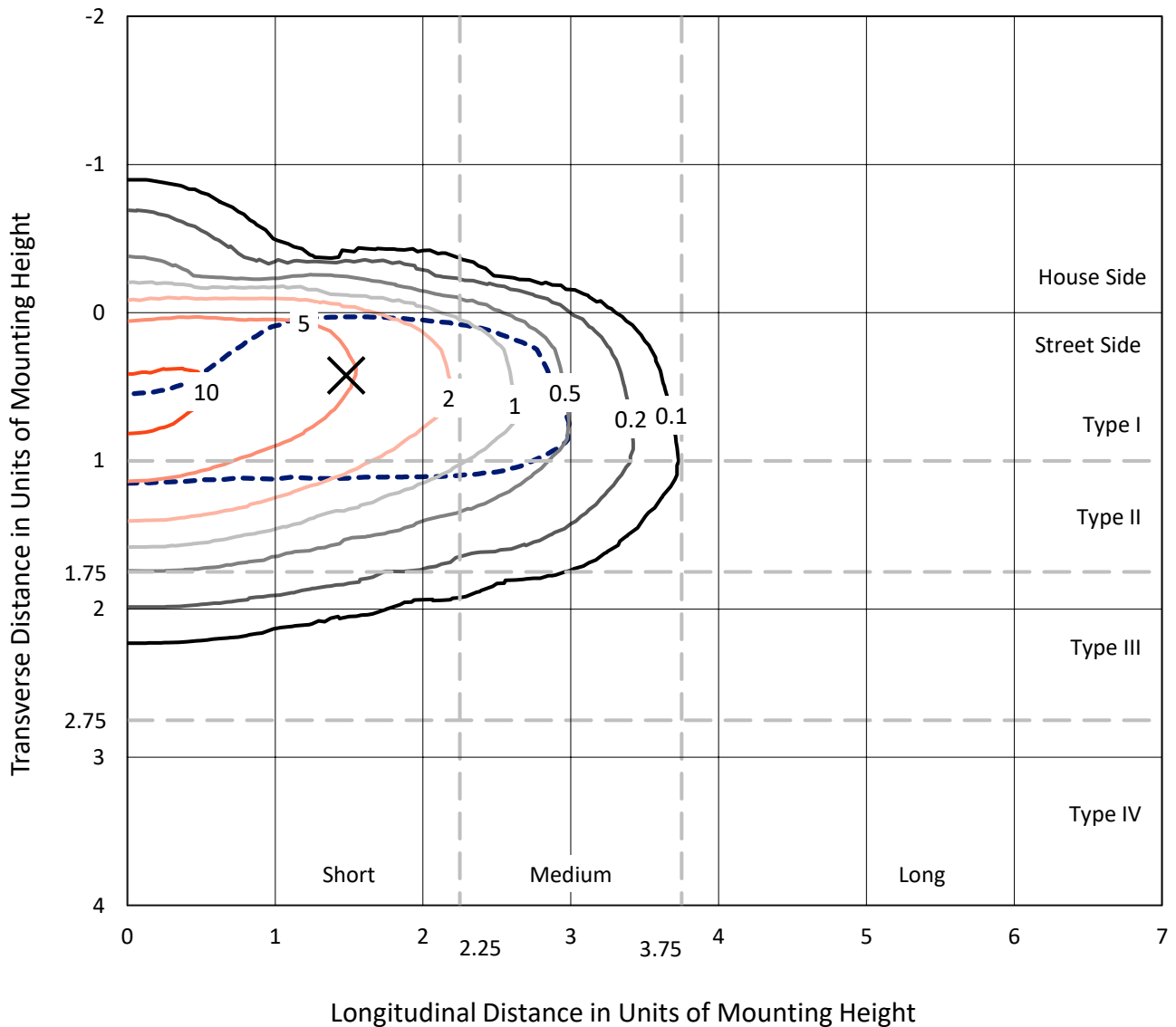
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

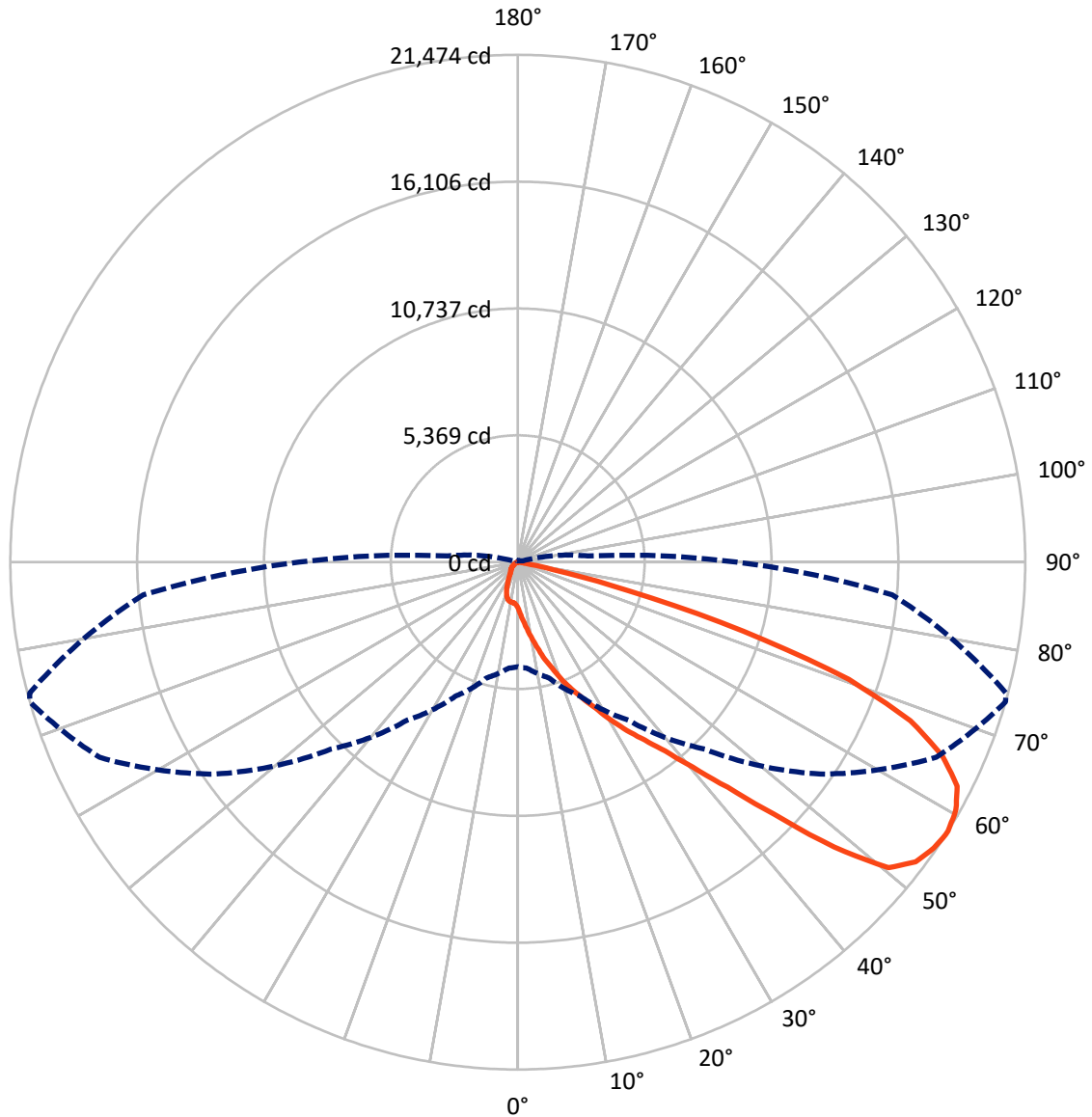
✕ Max cd  
 - - - 1/2 Max cd



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

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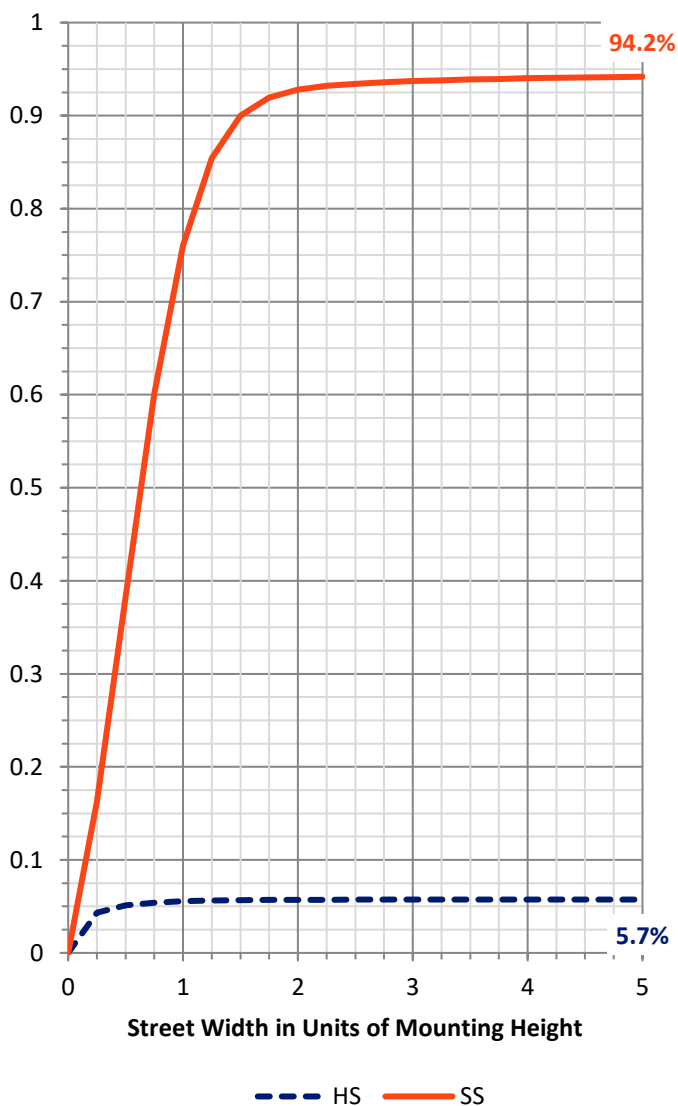
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1339.5	0.0	1339.5
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	21885.5	0.0	21885.5
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	23225.0	0.0	23225.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.8	1.0
10°-20°	925.4	4.0
20°-30°	1980.1	8.5
30°-40°	3639.4	15.7
40°-50°	5579.2	24.0
50°-60°	5902.1	25.4
60°-70°	3854.2	16.6
70°-80°	1053.1	4.5
80°-90°	56.7	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°	23225.0	100.0
0°-180°	23225.0	100.0

**Coefficient of Utilization**



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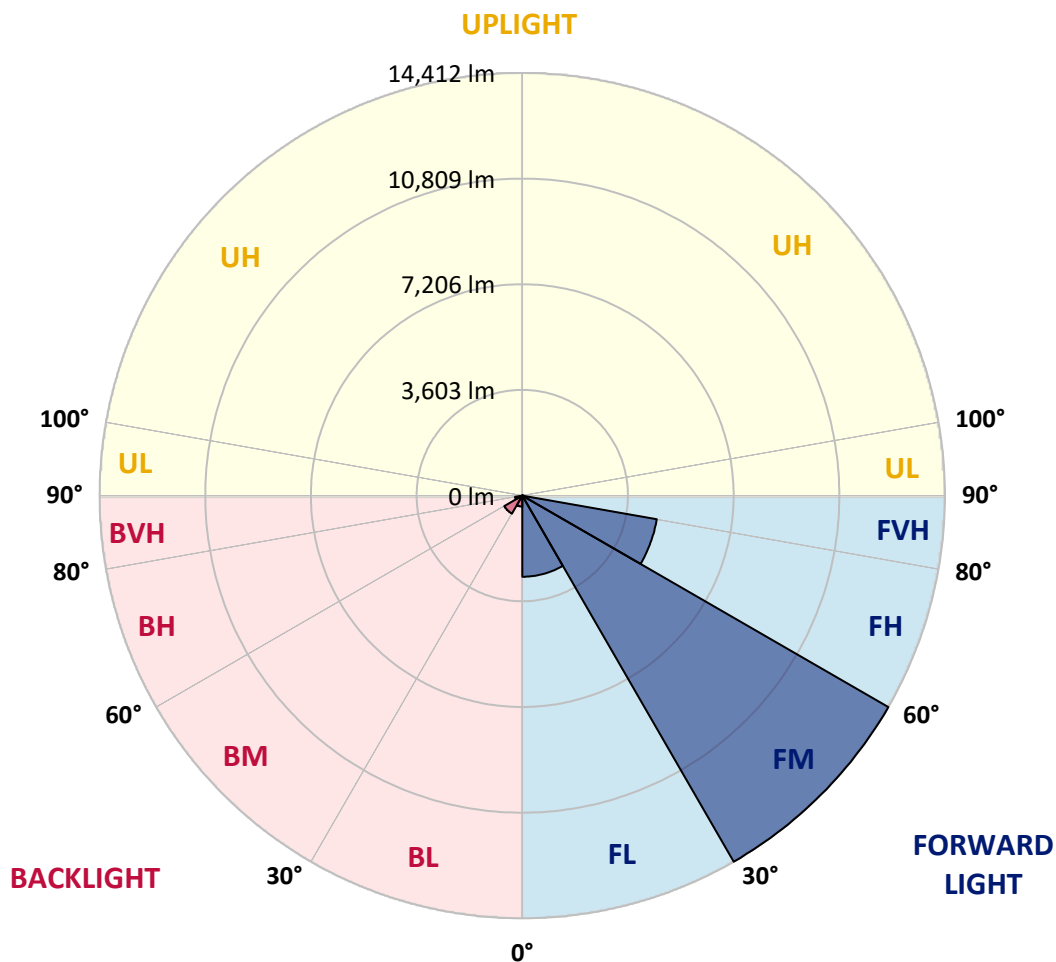
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2766.1	11.9			
FM	(30°-60°)	14411.5	62.1			
FH	(60°-80°)	4655.8	20.0			G2/5000
FVH	(80°-90°)	52.0	0.2			G1/100
BL	(0°-30°)	374.2	1.6	B1/500		
BM	(30°-60°)	709.2	3.1	B1/1000		
BH	(60°-80°)	251.5	1.1	B1/500		G1/500
BVH	(80°-90°)	4.7	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°	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1
2.5°	2846.2	2820.6	2769.3	2751.6	2676.3	2559.2	2456.6	2318.7	2209.6	2198.4	2066.9
5°	3811.6	3753.8	3729.8	3614.3	3433.1	3263.2	2971.3	2750.0	2495.1	2475.8	2211.2
7.5°	4741.6	4661.4	4637.4	4528.3	4316.7	4048.9	3670.4	3268.0	2863.9	2827.0	2405.3
10°	5415.1	5426.3	5383.0	5310.8	5139.3	4866.7	4400.0	3850.0	3274.4	3227.9	2623.4
12.5°	5897.7	5896.1	5904.1	5902.5	5811.1	5604.3	5113.6	4480.2	3726.6	3635.2	2873.5
15°	6212.0	6216.8	6240.9	6324.3	6333.9	6205.6	5796.7	5083.1	4250.9	4137.1	3144.5
17.5°	6529.5	6563.2	6601.7	6680.2	6750.8	6699.5	6410.9	5711.7	4725.6	4640.6	3434.7
20°	7053.9	7100.4	7077.9	7126.0	7162.9	7167.7	6944.8	6292.2	5301.2	5158.5	3766.7
22.5°	7892.5	7890.9	7833.2	7746.6	7674.4	7671.2	7469.2	6888.7	5824.0	5686.1	4100.2
25°	8952.4	8957.2	8845.0	8598.0	8418.5	8198.8	7966.3	7411.4	6383.6	6213.6	4451.4
27.5°	10167.9	10137.4	9967.4	9627.5	9271.5	8896.3	8561.2	8019.2	6976.9	6835.8	4853.8
30°	11259.9	11248.7	11049.8	10634.5	10166.3	9789.5	9303.6	8780.8	7745.0	7571.8	5304.4
32.5°	12276.5	12292.5	12016.7	11587.0	11134.8	10700.3	10187.1	9508.8	8498.6	8253.3	5795.1
35°	13070.2	13086.3	12800.9	12443.3	11978.3	11617.5	11128.4	10284.9	9242.7	9035.8	6359.5
37.5°	13493.6	13514.4	13349.3	13079.9	12789.6	12608.4	12153.0	11283.9	10147.0	10022.0	7026.6
40°	13573.8	13597.8	13525.6	13453.5	13437.5	13567.3	13434.2	12460.9	11401.0	11205.4	8020.8
42.5°	13333.2	13365.3	13397.4	13557.7	13884.8	14361.1	14824.5	14058.0	13015.7	12752.8	9236.2
45°	12701.4	12698.2	12824.9	13240.2	13973.0	14989.7	16277.3	16057.6	15215.8	14903.1	10953.6
47.5°	11620.7	11604.6	11878.8	12470.5	13612.2	15105.1	17462.3	18485.3	18023.5	17734.9	12799.3
50°	9973.9	10052.4	10483.8	11309.6	12715.9	14755.5	17827.9	20077.6	20327.8	20021.5	14290.5
52.5°	8044.8	8041.6	8718.3	9839.2	11388.2	13985.9	17572.9	20366.2	21076.6	20842.5	15024.9
55°	5953.9	5995.5	6699.5	7830.0	9664.4	12581.2	16740.7	20069.6	21362.0	21196.9	15509.2
57°	4428.9	4502.7	5067.1	6263.3	8163.5	11190.9	15632.7	19538.8	21474.3	21384.5	15911.7
57.5°	4133.9	4137.1	4687.1	5774.3	7724.1	10657.0	15315.2	19317.5	21471.1	21421.4	15977.4
60°	2544.8	2625.0	3005.0	3903.0	5654.0	8317.4	13187.3	18046.0	21304.3	21376.5	16258.0
62.5°	1523.3	1557.0	1804.0	2352.4	3644.8	6070.9	10791.7	16418.4	20869.7	21089.4	16238.8
65°	979.7	987.8	1100.0	1423.9	2278.6	4103.4	8315.8	14268.1	19745.7	20149.8	15603.8
67.5°	756.9	769.7	814.6	934.8	1321.3	2556.0	5881.7	11973.4	17927.3	18448.4	14064.4
70°	671.9	678.3	694.3	732.8	873.9	1443.2	3659.2	9353.3	14866.2	15013.7	11006.5
72.5°	548.4	566.0	615.7	628.6	692.7	901.2	2036.5	6277.8	9988.3	10025.2	6157.5
75°	424.9	428.1	501.9	538.8	583.7	620.6	909.2	3165.3	4797.7	4541.2	2373.2
77.5°	317.5	331.9	365.6	412.1	476.2	444.2	407.3	1193.0	1489.7	1462.4	689.5
80°	203.6	211.7	255.0	309.5	370.4	290.2	229.3	349.6	327.1	336.7	165.2
82.5°	102.6	104.2	163.6	251.8	235.7	145.9	144.3	142.7	121.9	120.3	77.0
85°	11.2	24.1	105.8	144.3	105.8	48.1	67.3	65.7	64.1	65.7	44.9
87.5°	1.6	1.6	17.6	20.8	14.4	16.0	19.2	20.8	25.7	24.1	19.2
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°	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1	1945.1
2.5°	2002.8	1938.6	1820.0	1706.1	1621.2	1566.6	1496.1	1470.4	1433.5	1428.7	1411.1
5°	2089.4	1967.5	1760.7	1597.1	1465.6	1366.2	1279.6	1207.4	1149.7	1136.9	1143.3
7.5°	2212.9	2031.7	1743.0	1520.1	1337.3	1167.4	1029.5	944.5	883.5	861.1	864.3
10°	2352.4	2116.6	1739.8	1438.4	1159.3	950.9	800.2	724.8	689.5	676.7	662.3
12.5°	2517.5	2214.5	1731.8	1311.7	963.7	758.5	651.0	606.1	572.5	562.8	562.8
15°	2703.5	2318.7	1693.3	1154.5	782.5	627.0	554.8	519.5	508.3	498.7	498.7
17.5°	2897.6	2421.3	1613.1	960.5	649.4	537.2	492.3	471.4	455.4	444.2	444.2
20°	3118.8	2522.3	1484.9	788.9	548.4	479.5	444.2	420.1	407.3	397.7	394.5
22.5°	3328.9	2604.1	1321.3	647.8	477.8	431.3	399.3	373.6	360.8	356.0	356.0
25°	3547.0	2653.8	1124.1	535.6	436.2	391.3	356.0	335.1	323.9	320.7	319.1
27.5°	3758.6	2682.7	950.9	468.2	397.7	354.4	320.7	304.7	293.4	290.2	291.8
30°	4015.2	2687.5	782.5	420.1	364.0	319.1	288.6	274.2	267.8	264.6	263.0
32.5°	4275.0	2681.1	657.4	391.3	331.9	288.6	263.0	251.8	246.9	242.1	242.1
35°	4566.8	2647.4	559.6	362.4	301.5	263.0	240.5	230.9	224.5	219.7	218.1
37.5°	4929.2	2629.8	503.5	330.3	274.2	238.9	218.1	208.5	203.6	197.2	195.6
40°	5500.1	2708.3	485.9	301.5	246.9	216.5	197.2	186.0	179.6	173.2	171.6
42.5°	6212.0	2846.2	457.0	272.6	222.9	195.6	176.4	163.6	152.3	144.3	141.1
45°	7134.0	3027.4	412.1	242.1	202.0	173.2	155.5	139.5	125.1	118.7	117.1
47.5°	8101.0	3202.2	372.0	218.1	179.6	153.9	134.7	117.1	104.2	99.4	97.8
50°	8694.3	3237.5	346.4	190.8	157.1	133.1	113.8	97.8	89.8	85.0	85.0
52.5°	8965.3	3181.4	311.1	166.8	136.3	117.1	97.8	85.0	80.2	77.0	75.4
55°	9154.5	3094.8	264.6	144.3	117.1	99.4	86.6	77.0	70.6	67.3	65.7
57°	9265.1	2977.7	229.3	126.7	101.0	86.6	77.0	69.0	62.5	56.1	56.1
57.5°	9269.9	2932.8	219.7	125.1	96.2	83.4	75.4	67.3	59.3	52.9	51.3
60°	9127.2	2625.0	176.4	105.8	77.0	70.6	62.5	52.9	41.7	35.3	33.7
62.5°	8668.6	2233.7	145.9	89.8	62.5	54.5	44.9	40.1	28.9	20.8	20.8
65°	7974.3	1812.0	125.1	72.2	51.3	40.1	30.5	28.9	17.6	9.6	8.0
67.5°	6970.5	1411.1	105.8	59.3	43.3	28.9	20.8	19.2	9.6	3.2	0.0
70°	5310.8	962.1	88.2	48.1	32.1	20.8	14.4	11.2	6.4	1.6	0.0
72.5°	3061.1	529.2	73.8	36.9	24.1	16.0	11.2	6.4	6.4	0.0	0.0
75°	1093.6	227.7	56.1	27.3	19.2	12.8	8.0	3.2	4.8	1.6	0.0
77.5°	348.0	121.9	36.9	20.8	16.0	9.6	6.4	3.2	3.2	1.6	0.0
80°	102.6	64.1	22.4	17.6	11.2	8.0	4.8	1.6	3.2	1.6	0.0
82.5°	56.1	32.1	17.6	12.8	11.2	6.4	4.8	1.6	1.6	1.6	0.0
85°	28.9	19.2	14.4	12.8	11.2	6.4	4.8	1.6	0.0	1.6	1.6
87.5°	16.0	14.4	14.4	12.8	11.2	8.0	4.8	1.6	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)