

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: P455099

Luminaire Tested: **GALN-SA6B-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455099  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25420 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

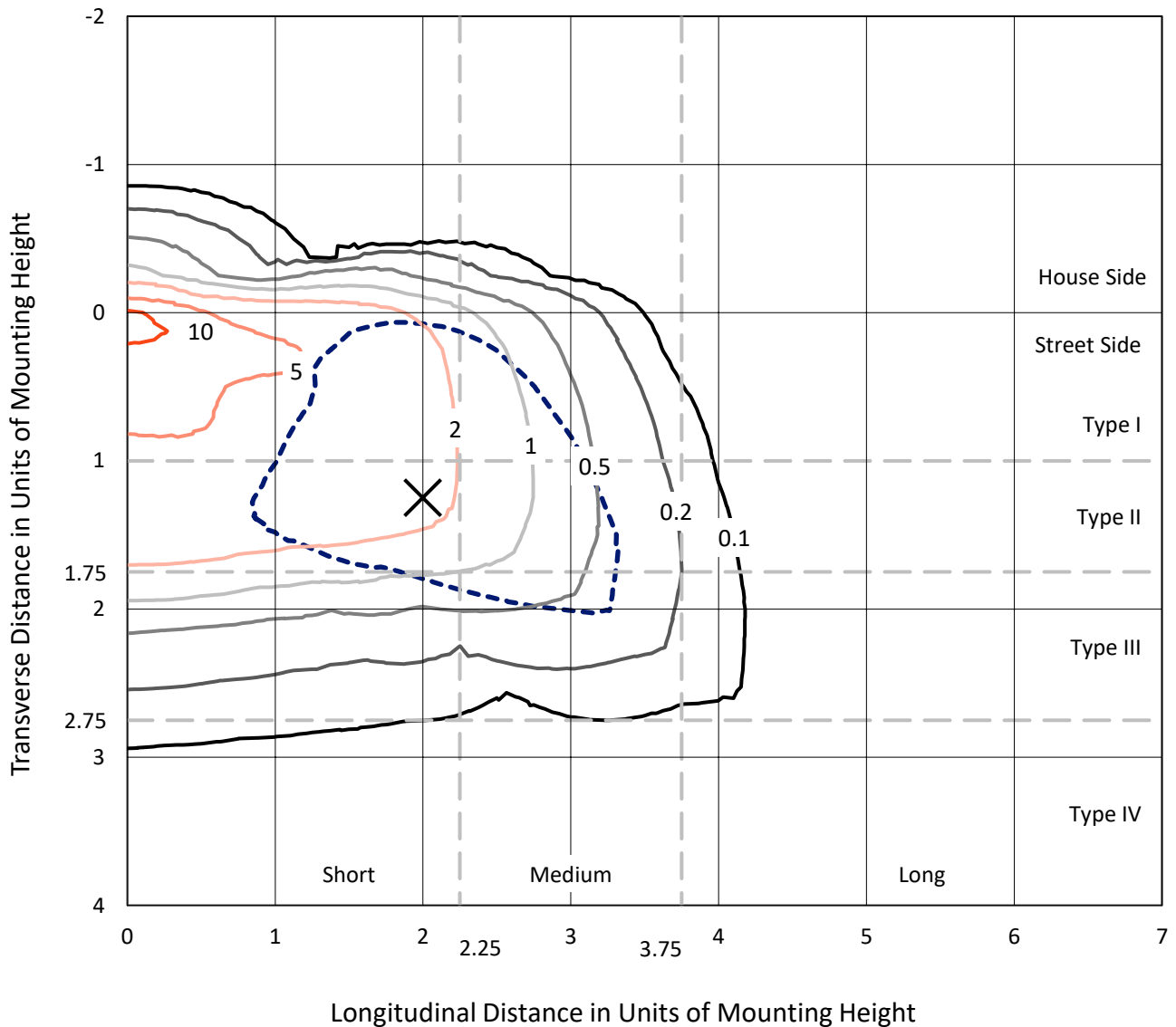
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

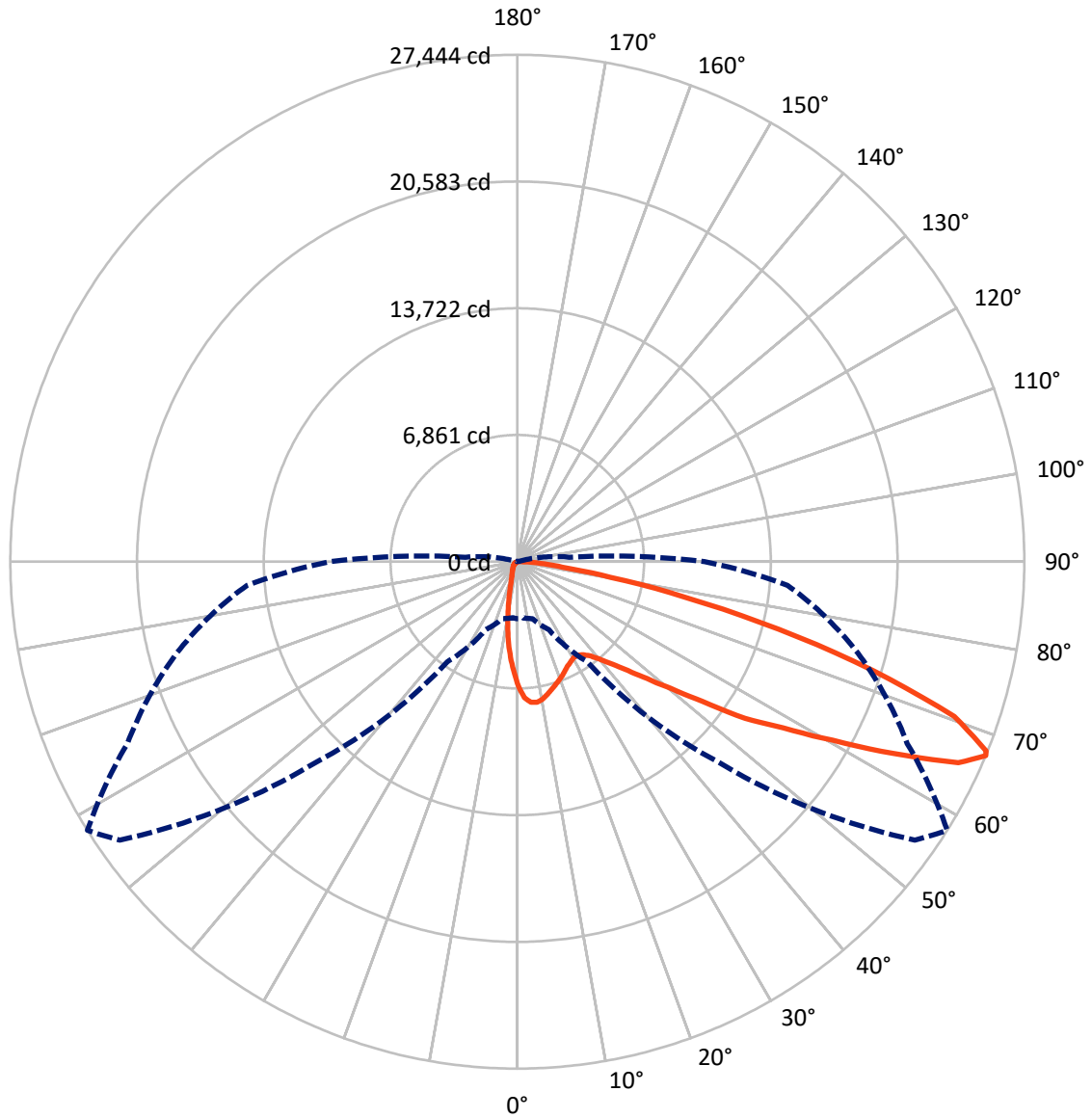
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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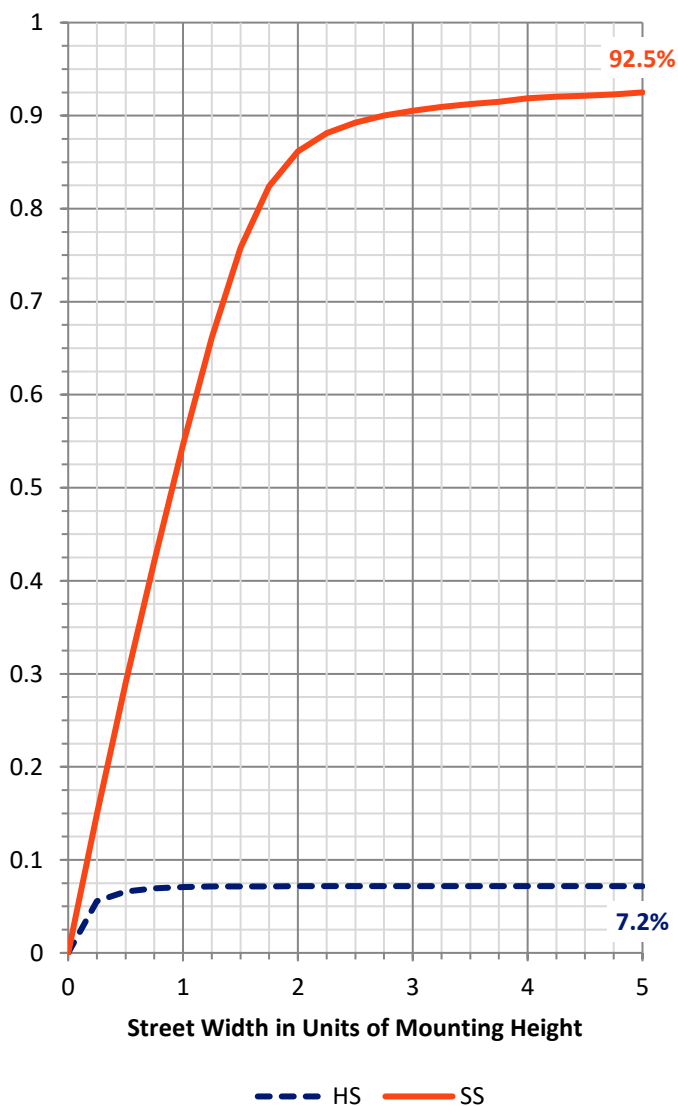
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1834.5	0.0	1834.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	23585.5	0.0	23585.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	25420.0	0.0	25420.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	546.8	2.2
10°-20°	1181.0	4.6
20°-30°	1600.3	6.3
30°-40°	2219.6	8.7
40°-50°	3540.0	13.9
50°-60°	6119.1	24.1
60°-70°	6990.0	27.5
70°-80°	2914.2	11.5
80°-90°	309.0	1.2
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°	25420.0	100.0
0°-180°	25420.0	100.0

**Coefficient of Utilization**

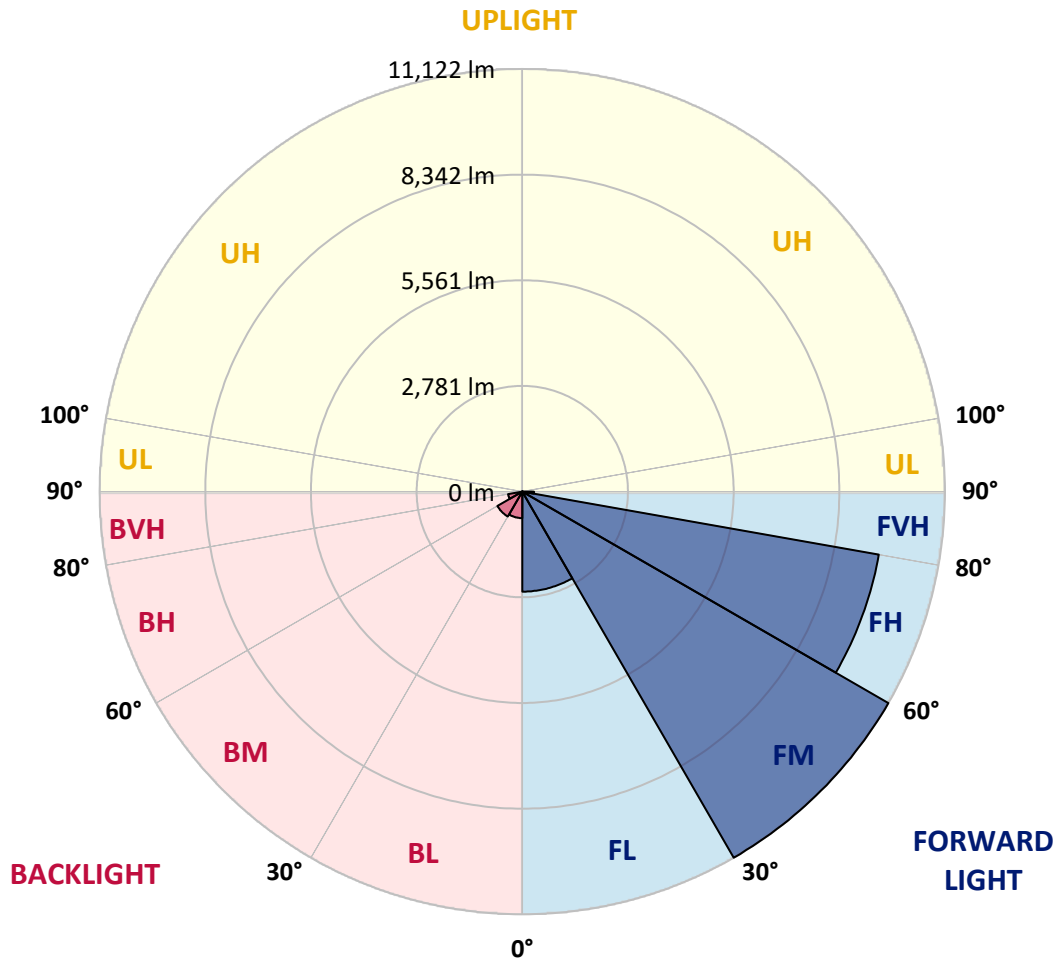


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2631.6	10.4			
FM	(30°-60°)	11122.3	43.8			
FH	(60°-80°)	9524.9	37.5			G4/12000
FVH	(80°-90°)	306.7	1.2			G3/500
BL	(0°-30°)	696.6	2.7	B2/1000		
BM	(30°-60°)	756.4	3.0	B1/1000		
BH	(60°-80°)	379.2	1.5	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6
2.5°	7820.7	7832.5	7788.4	7752.7	7661.0	7562.5	7431.7	7362.0	7243.1	7037.6	6810.0
5°	8004.1	8019.4	8012.6	8004.1	7968.4	7873.3	7706.8	7645.7	7470.7	7136.1	6725.0
7.5°	7596.4	7652.5	7659.3	7725.5	7788.4	7796.9	7734.0	7688.2	7526.8	7134.4	6573.8
10°	7056.3	7093.6	7148.0	7224.4	7375.6	7501.3	7562.5	7555.7	7462.2	7081.7	6397.2
12.5°	6511.0	6531.4	6614.6	6745.4	6930.6	7144.6	7307.7	7339.9	7341.6	7018.9	6249.4
15°	6042.2	6033.7	6098.2	6249.4	6509.3	6777.7	7069.8	7120.8	7202.3	6957.7	6111.8
17.5°	5641.3	5685.4	5695.6	5862.1	6101.6	6449.8	6821.8	6911.9	7074.9	6905.1	5998.0
20°	5393.3	5417.0	5439.1	5532.6	5748.3	6115.2	6589.1	6713.1	6956.0	6857.5	5870.6
22.5°	5320.2	5335.5	5316.8	5345.7	5498.6	5824.7	6336.0	6500.8	6842.2	6813.3	5767.0
25°	5376.3	5391.6	5347.4	5313.4	5366.1	5588.6	6091.4	6291.9	6750.5	6804.9	5688.8
27.5°	5512.2	5541.0	5479.9	5418.7	5388.2	5461.2	5899.5	6132.2	6687.6	6845.6	5653.2
30°	5724.5	5741.5	5695.6	5620.9	5551.2	5478.2	5799.2	6021.8	6670.7	6940.7	5649.8
32.5°	5955.5	5991.2	5965.7	5916.5	5826.4	5653.2	5828.1	6025.2	6711.4	7078.3	5692.2
35°	6240.9	6281.7	6305.4	6295.3	6179.7	5964.0	6011.6	6178.0	6820.1	7331.4	5807.7
37.5°	6521.2	6556.9	6691.0	6736.9	6635.0	6431.2	6368.3	6478.7	7059.7	7662.7	6016.7
40°	6842.2	6889.8	7078.3	7253.3	7204.0	6990.0	6874.5	6966.2	7426.6	8162.1	6412.5
42.5°	7149.7	7234.6	7521.7	7830.9	7876.7	7637.2	7560.8	7591.3	7970.1	8880.6	6964.5
45°	7586.2	7666.1	8036.4	8456.0	8671.7	8484.8	8406.7	8401.6	8715.9	9891.3	7859.7
47.5°	8216.4	8287.8	8724.3	9138.8	9522.7	9548.2	9400.4	9451.4	9653.5	11073.6	8957.1
50°	8989.3	9157.5	9444.6	9876.0	10389.0	10803.5	10849.4	10781.4	10954.7	12442.7	10275.2
52.5°	10112.2	10176.7	10440.0	10795.0	11396.4	12099.6	12644.9	12551.4	12497.1	13747.3	11607.0
55°	10949.6	11036.2	11445.6	11933.1	12814.7	13742.2	14924.5	14956.8	14270.5	15000.9	12909.9
57.5°	10696.5	10829.0	11449.0	12429.1	14367.3	16062.6	16942.5	16964.6	15911.4	16218.9	14380.9
60°	9397.0	9459.9	10348.3	11656.2	14499.8	18576.6	19804.7	19626.4	17581.2	17581.2	15680.4
62.5°	6663.9	6762.4	7482.6	9407.2	13095.0	19449.7	23232.7	22864.0	19881.2	18884.1	16455.0
65°	4258.6	4163.4	4640.8	5938.5	9755.4	18160.4	26217.2	26239.3	22045.3	19405.6	16032.0
67°	3084.8	3047.4	3185.0	4059.8	6614.6	15265.9	26280.1	27443.7	23288.7	19076.0	14679.9
67.5°	2821.5	2850.4	2950.6	3662.3	6009.9	13891.7	25994.7	27372.3	23569.0	18877.3	14190.7
70°	2138.6	2089.4	2198.1	2590.5	3602.9	8763.4	22361.2	25104.6	23220.8	16905.1	11338.6
72.5°	1573.0	1567.9	1719.1	2118.2	2773.9	4667.9	16786.2	20129.2	18970.7	12872.5	7139.5
75°	1061.7	1109.2	1350.4	1770.0	2514.0	3027.0	11443.9	14603.4	13169.8	7309.4	2918.3
77.5°	604.7	608.1	869.7	1421.8	2257.5	2435.9	6781.1	9303.6	6971.3	2430.8	866.3
80°	261.6	287.1	431.5	1032.8	1871.9	2157.3	3888.2	5113.0	2819.8	514.7	280.3
82.5°	96.8	113.8	190.3	635.3	1365.7	1776.8	2349.3	2441.0	956.3	181.8	175.0
85°	0.0	3.4	69.6	297.3	711.7	793.3	1569.6	1447.3	423.0	86.6	113.8
87.5°	0.0	0.0	0.0	30.6	93.4	295.6	487.5	543.6	101.9	30.6	27.2
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°	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6	6738.6
2.5°	6687.6	6577.2	6300.4	6023.5	5817.9	5646.4	5388.2	5247.2	5172.4	5062.0	5068.8
5°	6519.5	6295.3	5807.7	5303.2	4895.6	4498.1	4022.4	3830.5	3669.1	3577.4	3516.2
7.5°	6269.8	5938.5	5216.6	4543.9	3917.1	3222.4	2700.9	2352.7	2118.2	2031.6	1948.4
10°	5996.3	5556.3	4617.0	3684.4	2814.7	2097.9	1656.2	1336.9	1223.0	1117.7	1127.9
12.5°	5743.2	5208.1	4066.6	2908.1	1972.2	1333.5	1039.6	908.8	871.4	859.5	859.5
15°	5536.0	4875.2	3475.5	2186.2	1352.1	958.0	832.3	796.7	783.1	779.7	779.7
17.5°	5315.1	4559.2	2942.1	1615.4	983.5	801.8	759.3	735.5	730.4	727.0	727.0
20°	5118.1	4241.6	2435.9	1202.7	795.0	721.9	694.8	679.5	674.4	671.0	672.7
22.5°	4931.2	3959.6	1960.3	908.8	699.9	657.4	630.2	614.9	604.7	596.2	597.9
25°	4764.8	3687.8	1576.4	744.0	630.2	592.8	565.7	543.6	521.5	511.3	509.6
27.5°	4647.6	3450.0	1228.1	637.0	567.4	526.6	492.6	465.4	436.6	421.3	417.9
30°	4550.7	3208.8	971.6	562.3	504.5	465.4	423.0	383.9	353.3	338.0	331.2
32.5°	4487.9	2979.5	766.1	501.1	451.8	404.3	356.7	317.7	283.7	268.4	265.0
35°	4477.7	2787.5	626.8	450.1	404.3	353.3	304.1	261.6	232.7	217.4	214.0
37.5°	4550.7	2639.7	524.9	409.4	365.2	309.2	254.8	215.7	190.3	178.4	176.7
40°	4746.1	2546.3	455.2	375.4	329.5	268.4	217.4	183.5	158.0	146.1	146.1
42.5°	5118.1	2549.7	409.4	343.1	293.9	229.3	185.2	152.9	130.8	120.6	117.2
45°	5699.0	2665.2	370.3	310.9	259.9	198.7	158.0	125.7	103.6	95.1	95.1
47.5°	6477.0	2894.5	336.3	278.6	229.3	169.9	134.2	101.9	83.2	74.7	74.7
50°	7494.5	3263.1	307.5	251.4	203.8	146.1	108.7	83.2	64.5	57.8	56.1
52.5°	8557.9	3718.4	273.5	227.6	175.0	124.0	88.3	64.5	49.3	44.2	42.5
55°	9731.7	4163.4	241.2	203.8	142.7	103.6	69.6	51.0	35.7	30.6	30.6
57.5°	10915.6	4600.0	202.1	169.9	112.1	76.4	54.4	37.4	23.8	18.7	18.7
60°	11917.8	4741.0	171.6	137.6	84.9	54.4	39.1	23.8	13.6	8.5	8.5
62.5°	12055.4	4265.4	144.4	105.3	61.2	37.4	20.4	13.6	5.1	3.4	3.4
65°	11308.0	3465.3	120.6	79.8	40.8	18.7	8.5	5.1	1.7	0.0	0.0
67°	10132.5	2809.6	98.5	59.5	28.9	11.9	5.1	1.7	0.0	0.0	0.0
67.5°	9831.9	2678.8	95.1	56.1	25.5	10.2	3.4	1.7	0.0	0.0	0.0
70°	7715.3	2006.1	67.9	34.0	15.3	6.8	0.0	0.0	0.0	0.0	0.0
72.5°	4795.3	1134.7	49.3	20.4	10.2	3.4	0.0	0.0	0.0	0.0	0.0
75°	1812.5	397.5	34.0	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	564.0	151.2	20.4	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	190.3	57.8	13.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	117.2	23.8	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.0	10.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0	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)