

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: P456732

Luminaire Tested: **GALN-SA8A-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456732  
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-SA8A-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 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: 25141 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

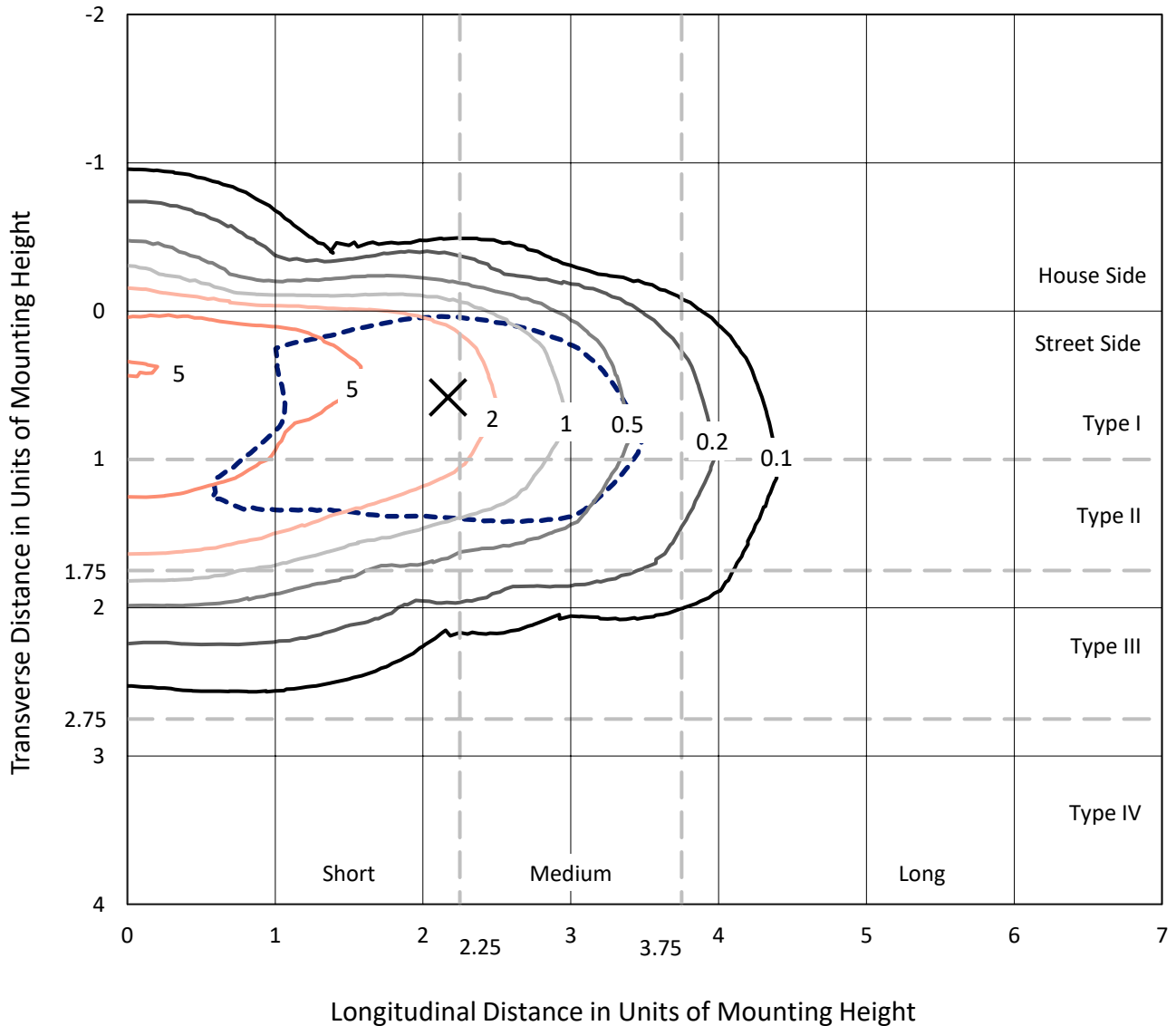
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

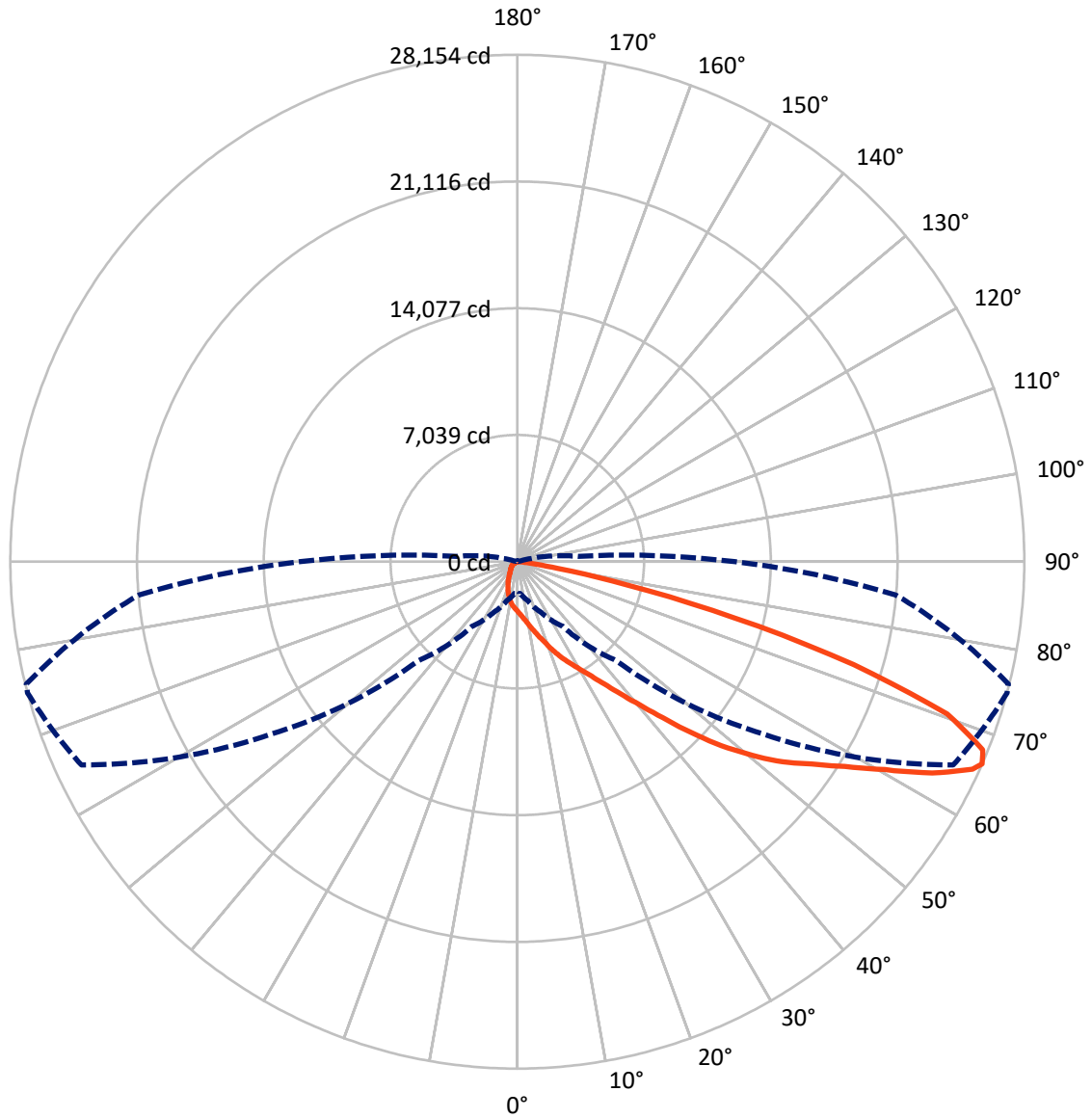
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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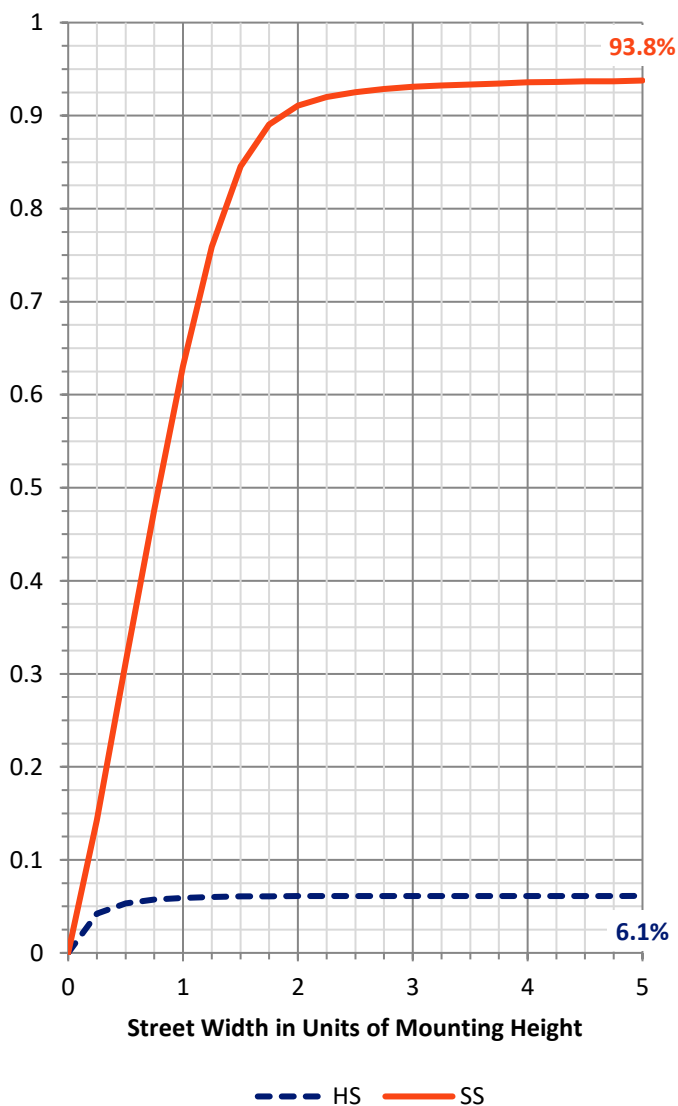
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1552.1	0.0	1552.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	23588.9	0.0	23588.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	25141.0	0.0	25141.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.2	1.1
10°-20°	780.5	3.1
20°-30°	1347.7	5.4
30°-40°	2430.9	9.7
40°-50°	4391.5	17.5
50°-60°	6846.4	27.2
60°-70°	6503.8	25.9
70°-80°	2437.5	9.7
80°-90°	137.5	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°	25141.0	100.0
0°-180°	25141.0	100.0

**Coefficient of Utilization**



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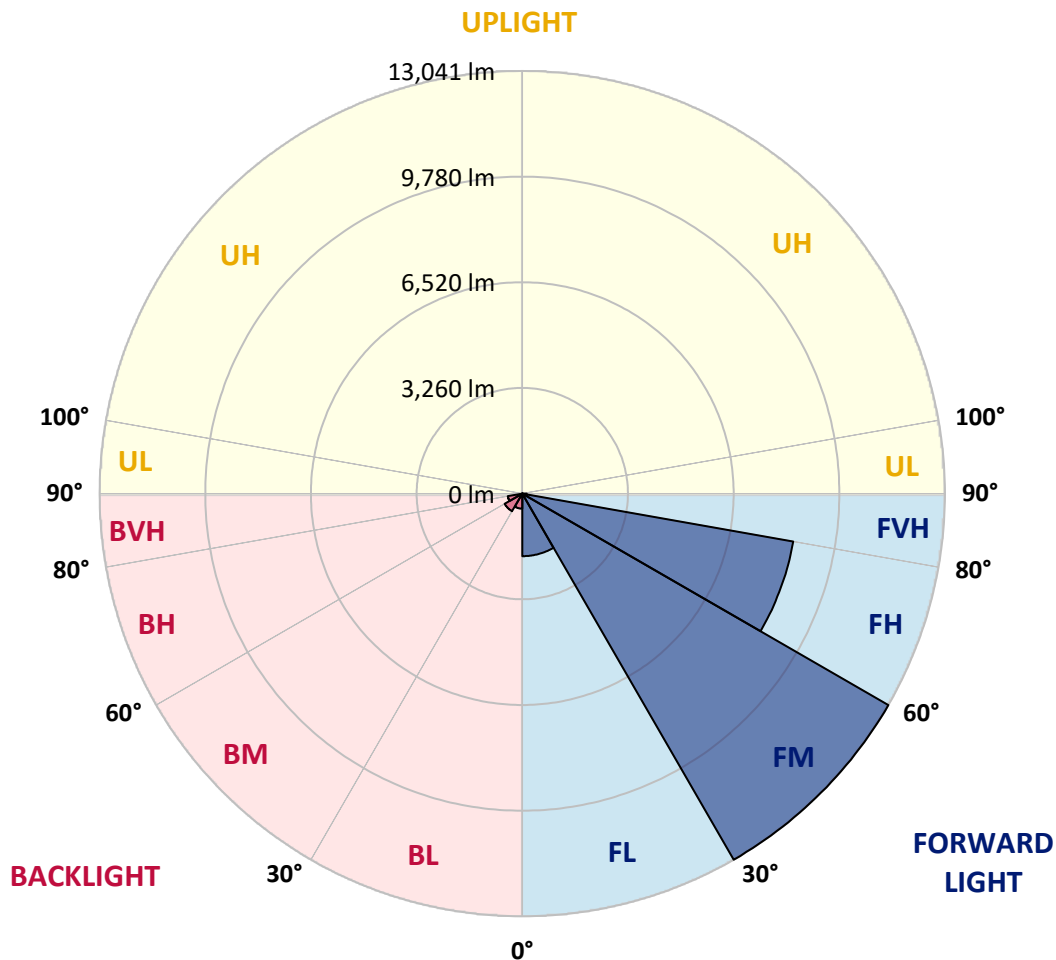
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.8	7.7			
FM (30°-60°)	13040.6	51.9			
FH (60°-80°)	8488.1	33.8			G4/12000
FVH (80°-90°)	130.4	0.5			G2/225
BL (0°-30°)	463.5	1.8	B1/500		
BM (30°-60°)	628.2	2.5	B1/1000		
BH (60°-80°)	453.2	1.8	B1/500		G1/500
BVH (80°-90°)	7.1	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°	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4
2.5°	3284.8	3243.9	3256.9	3238.3	3195.6	3132.4	3076.6	2996.7	2916.7	2903.7	2814.5
5°	3717.9	3706.8	3691.9	3638.0	3608.3	3511.6	3396.3	3258.8	3093.3	3063.6	2901.9
7.5°	4013.5	4007.9	4015.4	3987.5	3961.5	3874.1	3751.4	3563.6	3307.1	3290.4	3020.8
10°	4110.2	4125.1	4152.9	4197.6	4238.5	4210.6	4117.6	3883.4	3584.1	3535.8	3156.5
12.5°	4054.4	4071.1	4138.1	4257.0	4389.0	4465.2	4428.1	4257.0	3877.8	3838.8	3309.0
15°	3911.3	3931.7	4026.5	4210.6	4446.7	4662.3	4755.2	4632.6	4219.9	4156.7	3493.0
17.5°	3699.4	3729.1	3864.8	4108.3	4431.8	4803.6	5065.7	5024.8	4584.2	4524.7	3693.8
20°	3539.5	3561.8	3677.0	3955.9	4368.6	4881.7	5361.3	5476.5	5034.1	4931.8	3929.9
22.5°	3645.4	3652.9	3691.9	3859.2	4255.2	4902.1	5621.5	5946.8	5511.8	5420.8	4175.2
25°	4164.1	4089.7	4050.7	4013.5	4231.0	4883.5	5857.6	6437.6	5987.7	5891.1	4418.8
27.5°	4982.0	4948.6	4751.5	4487.6	4437.4	4907.7	6013.8	6902.4	6435.8	6331.7	4656.7
30°	5872.5	5814.9	5694.0	5307.4	4918.8	5078.7	6127.2	7354.1	6965.6	6828.0	4874.2
32.5°	6690.4	6727.6	6547.3	6149.5	5699.6	5443.1	6274.0	7846.7	7573.4	7402.4	5127.0
35°	7644.1	7718.4	7441.5	7060.4	6534.3	6101.1	6560.3	8402.5	8344.9	8129.3	5517.4
37.5°	8612.6	8657.2	8488.1	7952.7	7478.6	6937.7	7099.4	9088.5	9294.9	9110.8	5984.0
40°	9426.8	9488.2	9363.6	8887.7	8382.1	7906.2	7882.0	9835.8	10425.1	10235.5	6679.3
42.5°	10049.6	10096.1	10099.8	9763.3	9307.9	9092.2	8880.3	10789.5	11841.6	11622.3	7486.1
45°	10835.9	10902.9	10863.8	10635.2	10295.0	10255.9	10146.3	11942.0	13537.0	13260.0	8532.7
47.5°	12051.7	12096.3	11999.7	11730.1	11384.3	11445.7	11380.6	13234.0	15265.9	15027.9	9616.5
50°	12895.7	12970.0	13107.6	13215.4	12964.5	12737.7	12544.3	14440.5	16907.3	16693.6	10724.4
52.5°	12886.4	13009.1	13444.1	13986.9	14535.3	14466.5	13910.7	15773.4	18474.4	18210.5	11765.4
55°	12018.2	12256.2	12895.7	13858.6	15377.4	16134.0	15881.2	17316.3	19827.8	19649.3	12971.9
57.5°	10226.2	10371.2	11259.8	12605.7	14907.1	16918.5	18164.0	19407.6	21450.7	21367.0	14845.7
60°	6878.2	6943.3	8086.5	9750.3	12691.2	16135.9	19837.1	21937.7	23449.0	23408.2	17033.7
62.5°	3941.0	3968.9	4798.0	6201.5	9030.9	13674.6	19978.4	25058.9	25845.3	25867.6	19565.7
65°	2121.1	2136.0	2805.2	3639.9	5495.1	9746.6	17965.1	26769.2	27782.3	27825.1	21134.6
66°	1831.1	1760.4	2232.6	3102.6	4372.3	7757.5	16691.7	26707.8	28154.1	28107.6	21078.9
67.5°	1392.4	1455.6	1782.8	2385.1	3240.2	5515.6	13780.5	25519.9	27871.5	27726.5	20221.9
70°	996.4	1022.4	1269.7	1701.0	2206.6	3026.4	8805.9	21196.0	25332.2	25137.0	17617.5
72.5°	643.2	671.1	899.7	1230.6	1595.0	1652.6	4930.0	15314.2	19530.3	19502.5	13267.5
75°	459.2	485.2	594.9	881.2	1199.0	1022.4	2373.9	10321.0	12416.1	12332.4	8207.4
77.5°	332.8	345.8	397.8	576.3	857.0	732.4	1100.5	5511.8	6181.1	6472.9	3626.9
80°	191.5	202.6	277.0	351.3	580.0	500.1	526.1	2212.2	2281.0	2171.3	1134.0
82.5°	94.8	107.8	165.4	239.8	362.5	336.5	241.7	665.5	702.7	684.1	286.3
85°	22.3	27.9	92.9	158.0	176.6	150.6	117.1	195.2	241.7	236.1	109.7
87.5°	1.9	3.7	33.5	27.9	29.7	50.2	40.9	50.2	78.1	72.5	39.0
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°	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4	2749.4
2.5°	2773.6	2738.3	2636.0	2535.6	2452.0	2364.6	2284.7	2238.2	2219.6	2199.2	2208.5
5°	2812.6	2727.1	2520.8	2342.3	2167.6	2018.8	1899.9	1823.6	1786.5	1780.9	1771.6
7.5°	2864.7	2717.8	2398.1	2119.2	1890.6	1725.1	1589.4	1479.7	1446.3	1416.5	1392.4
10°	2927.9	2701.1	2245.6	1885.0	1641.5	1433.3	1254.8	1124.7	1057.8	1039.2	1052.2
12.5°	2994.8	2669.5	2085.8	1669.4	1388.7	1122.8	957.4	892.3	873.7	866.3	868.1
15°	3061.7	2630.4	1918.5	1461.2	1106.1	896.0	819.8	803.1	795.6	791.9	788.2
17.5°	3123.1	2567.2	1730.7	1258.5	896.0	765.9	738.0	723.1	708.3	702.7	693.4
20°	3195.6	2494.7	1561.5	1031.7	758.5	693.4	659.9	632.0	609.7	594.9	593.0
22.5°	3264.4	2401.8	1384.9	855.1	691.5	622.8	568.8	539.1	513.1	494.5	500.1
25°	3301.5	2288.4	1226.9	745.4	630.2	552.1	492.6	455.4	427.6	418.3	416.4
27.5°	3301.5	2149.0	1072.6	682.2	574.4	488.9	427.6	392.2	373.7	360.6	362.5
30°	3275.5	1994.7	929.5	633.9	526.1	433.1	375.5	343.9	329.0	319.7	317.9
32.5°	3255.1	1847.8	806.8	587.4	475.9	384.8	334.6	310.4	295.6	286.3	286.3
35°	3286.7	1721.4	712.0	541.0	429.4	347.6	303.0	280.7	265.8	258.4	256.5
37.5°	3370.3	1606.2	639.5	490.8	386.7	316.0	280.7	254.7	239.8	230.5	226.8
40°	3576.7	1541.1	585.6	444.3	345.8	290.0	254.7	230.5	211.9	202.6	200.8
42.5°	3907.6	1542.9	533.5	401.5	314.2	267.7	232.4	204.5	184.0	174.7	172.9
45°	4405.8	1613.6	492.6	360.6	286.3	243.5	208.2	178.5	159.9	150.6	150.6
47.5°	5002.5	1751.1	457.3	325.3	260.3	221.2	184.0	154.3	135.7	128.3	128.3
50°	5649.4	1929.6	422.0	288.1	237.9	197.1	158.0	133.8	119.0	113.4	113.4
52.5°	6309.3	2145.3	386.7	258.4	213.8	171.0	135.7	119.0	106.0	102.2	100.4
55°	7175.6	2420.4	349.5	226.8	187.8	146.9	120.8	104.1	89.2	83.7	81.8
57.5°	8508.5	2834.9	308.6	198.9	154.3	122.7	104.1	87.4	70.6	61.3	59.5
60°	10116.5	3340.6	265.8	174.7	124.6	100.4	83.7	66.9	52.1	40.9	39.0
62.5°	11622.3	3662.2	224.9	146.9	98.5	76.2	59.5	50.2	37.2	26.0	24.2
65°	12287.8	3554.4	185.9	119.0	78.1	53.9	39.0	35.3	22.3	11.2	9.3
66°	12066.6	3394.5	171.0	107.8	70.6	46.5	33.5	29.7	16.7	5.6	5.6
67.5°	11414.1	3017.1	148.7	92.9	61.3	37.2	26.0	22.3	9.3	1.9	0.0
70°	9780.0	2440.8	117.1	68.8	44.6	26.0	14.9	11.2	5.6	0.0	0.0
72.5°	7512.1	1818.1	92.9	52.1	31.6	14.9	7.4	3.7	5.6	0.0	0.0
75°	4602.8	1039.2	72.5	39.0	20.4	9.3	5.6	0.0	5.6	1.9	0.0
77.5°	2043.0	466.6	48.3	26.0	14.9	7.4	3.7	0.0	3.7	1.9	0.0
80°	516.8	152.4	27.9	18.6	11.2	5.6	1.9	0.0	3.7	3.7	1.9
82.5°	141.3	55.8	20.4	14.9	9.3	5.6	1.9	0.0	3.7	3.7	3.7
85°	55.8	26.0	18.6	14.9	11.2	5.6	1.9	0.0	3.7	3.7	3.7
87.5°	26.0	18.6	18.6	16.7	13.0	5.6	1.9	0.0	3.7	1.9	3.7
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)