

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: P652005

Luminaire Tested: **GALN-SA7A-840-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652005  
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-SA7A-840-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA 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: 22159.5 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

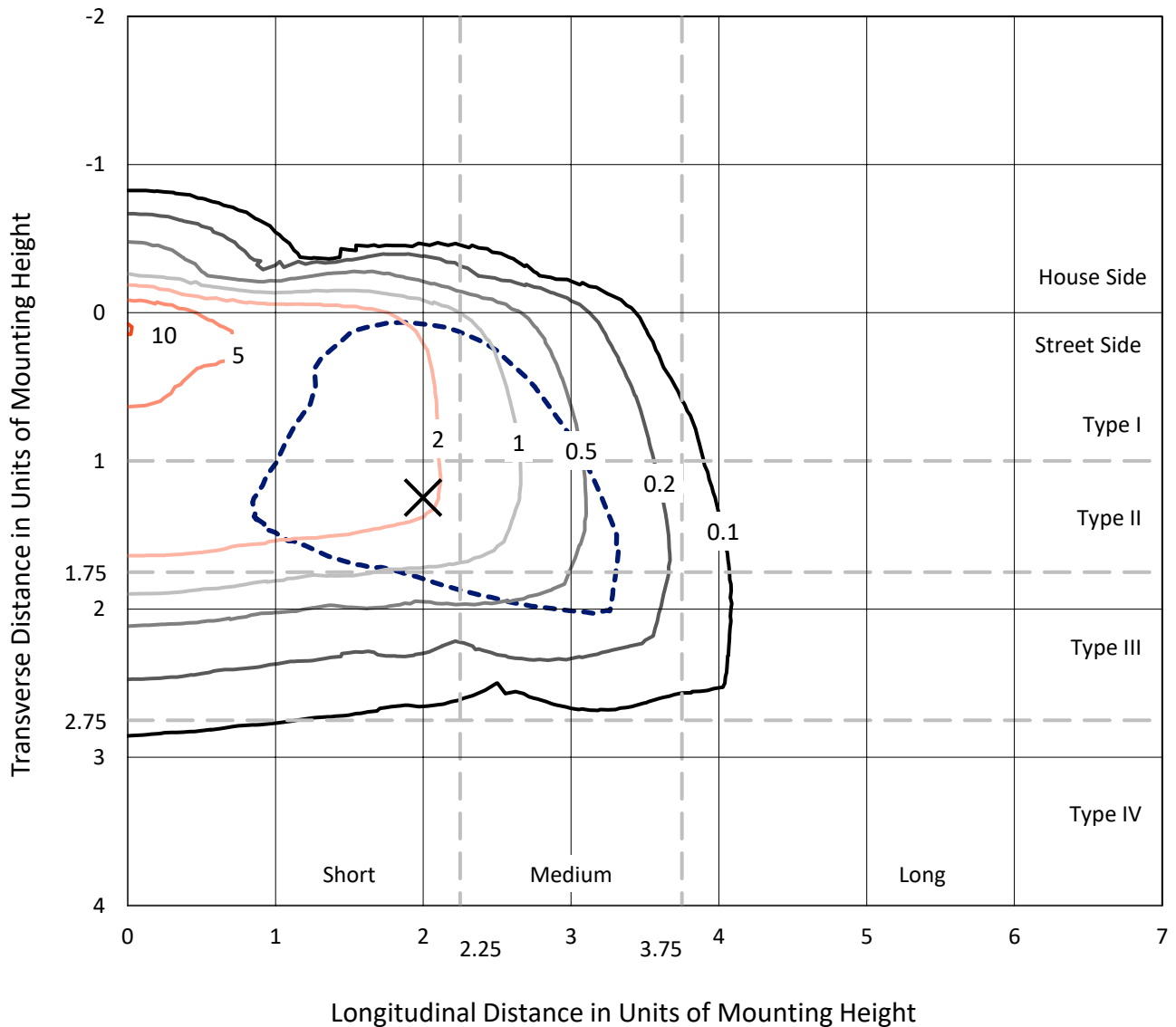
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

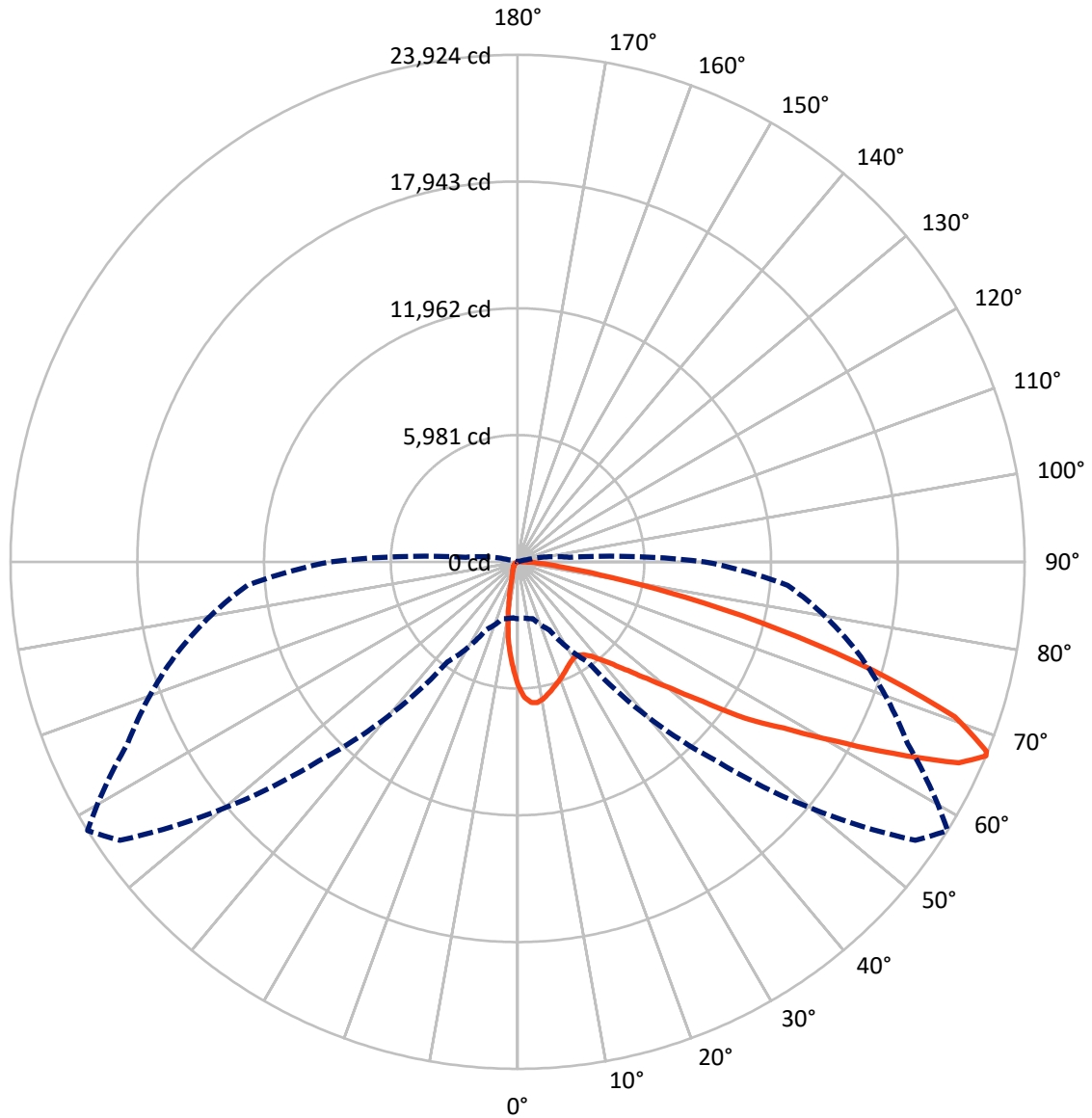
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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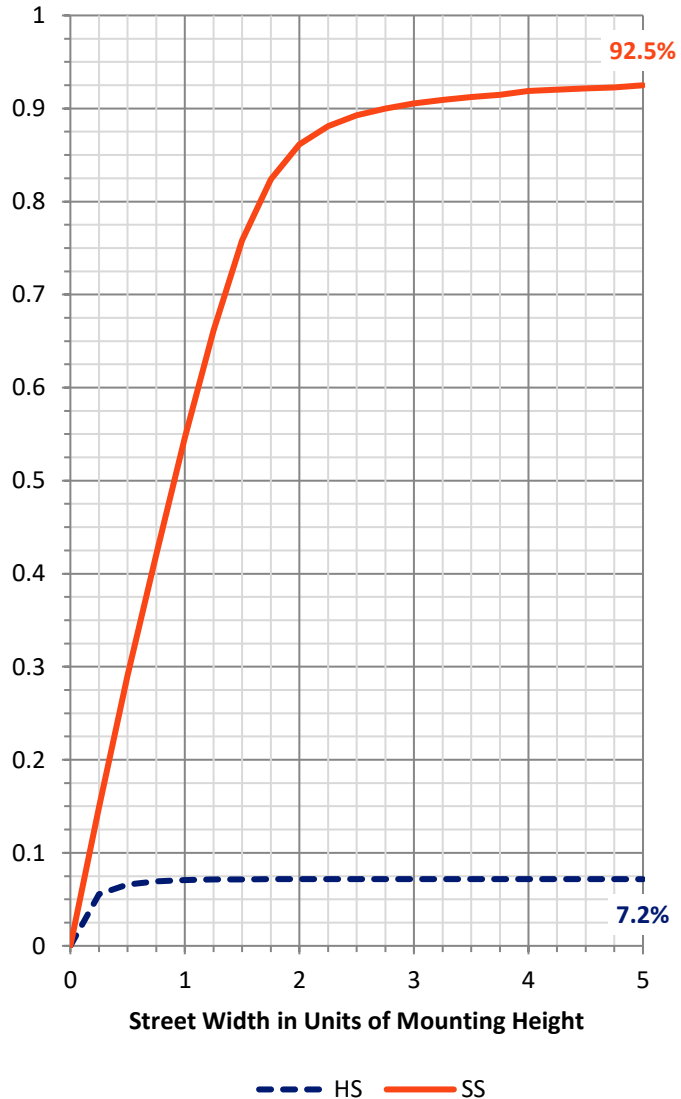
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1599.2	0.0	1599.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	20560.3	0.0	20560.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	22159.5	0.0	22159.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.7	2.2
10°-20°	1029.5	4.6
20°-30°	1395.1	6.3
30°-40°	1934.9	8.7
40°-50°	3085.9	13.9
50°-60°	5334.3	24.1
60°-70°	6093.4	27.5
70°-80°	2540.4	11.5
80°-90°	269.4	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°	22159.5	100.0
0°-180°	22159.5	100.0

**Coefficient of Utilization**

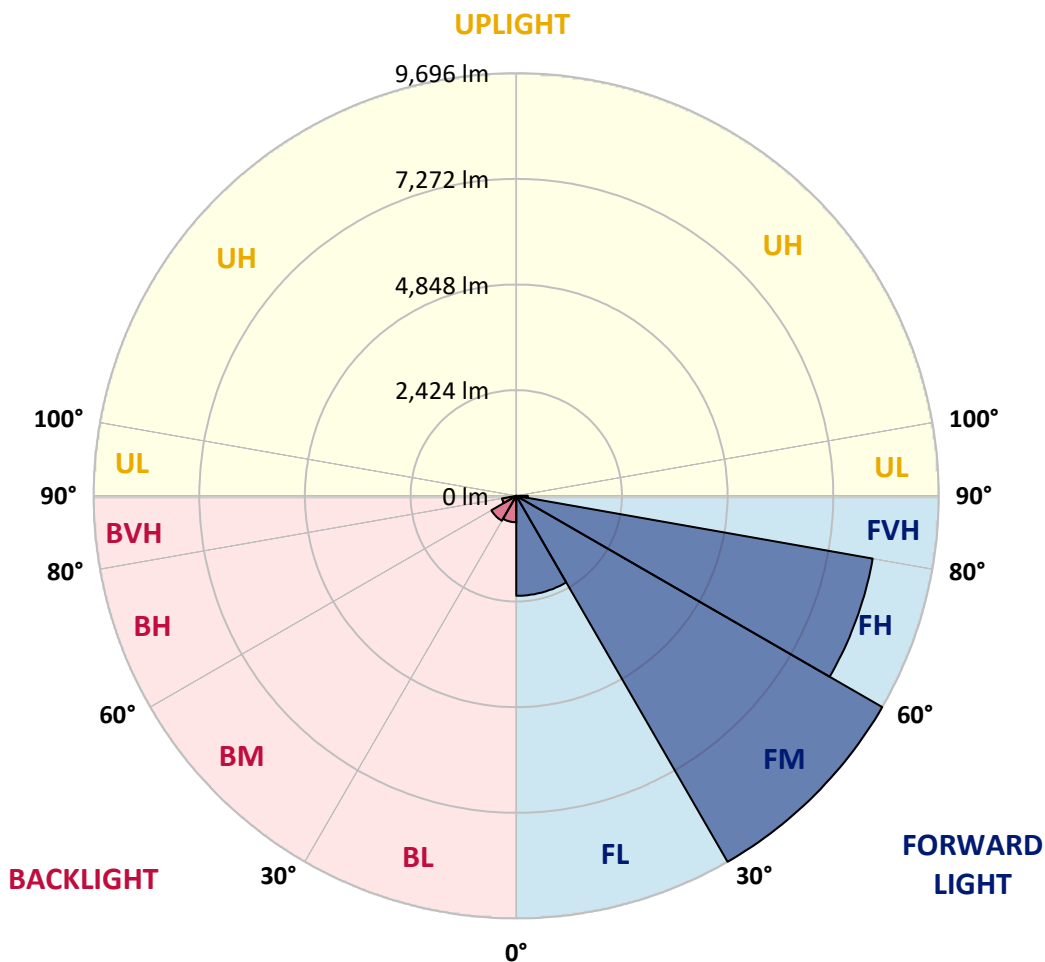


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.0	10.4			
FM (30°-60°)	9695.7	43.8			
FH (60°-80°)	8303.2	37.5			G4/12000
FVH (80°-90°)	267.4	1.2			G3/500
BL (0°-30°)	607.2	2.7	B2/1000		
BM (30°-60°)	659.4	3.0	B1/1000		
BH (60°-80°)	330.6	1.5	B1/500		G1/500
BVH (80°-90°)	2.0	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°	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3
2.5°	6817.6	6827.9	6789.4	6758.3	6678.4	6592.4	6478.5	6417.8	6314.1	6134.9	5936.5
5°	6977.4	6990.8	6984.8	6977.4	6946.4	6863.5	6718.3	6665.0	6512.5	6220.8	5862.4
7.5°	6622.1	6671.0	6676.9	6734.6	6789.4	6796.8	6742.0	6702.0	6561.4	6219.3	5730.7
10°	6151.2	6183.8	6231.1	6297.8	6429.6	6539.2	6592.4	6586.5	6505.1	6173.4	5576.7
12.5°	5675.8	5693.7	5766.1	5880.2	6041.6	6228.2	6370.3	6398.5	6399.9	6118.6	5447.8
15°	5267.2	5259.8	5316.0	5447.8	5674.4	5908.4	6163.0	6207.4	6278.6	6065.3	5327.9
17.5°	4917.7	4956.2	4965.1	5110.2	5319.0	5622.6	5946.9	6025.3	6167.5	6019.4	5228.7
20°	4701.5	4722.2	4741.5	4822.9	5011.0	5330.8	5743.9	5852.1	6063.9	5977.9	5117.6
22.5°	4637.9	4651.2	4634.8	4660.1	4793.3	5077.6	5523.4	5667.0	5964.6	5939.5	5027.2
25°	4686.7	4700.0	4661.5	4631.9	4677.8	4871.8	5310.1	5484.8	5884.6	5932.0	4959.1
27.5°	4805.1	4830.4	4777.0	4723.7	4697.1	4760.7	5142.8	5345.6	5829.9	5967.6	4928.1
30°	4990.2	5005.0	4965.1	4899.9	4839.2	4775.5	5055.4	5249.4	5815.0	6050.5	4925.1
32.5°	5191.7	5222.7	5200.5	5157.6	5079.1	4928.1	5080.6	5252.4	5850.6	6170.4	4962.2
35°	5440.4	5475.9	5496.7	5487.8	5387.1	5199.1	5240.5	5385.6	5945.4	6391.1	5062.8
37.5°	5684.7	5715.9	5832.8	5872.8	5784.0	5606.3	5551.4	5647.7	6154.2	6679.8	5245.0
40°	5964.6	6006.1	6170.4	6323.0	6280.0	6093.5	5992.7	6072.7	6474.0	7115.2	5590.0
42.5°	6232.7	6306.7	6556.9	6826.4	6866.4	6657.6	6591.0	6617.7	6947.8	7741.6	6071.3
45°	6613.2	6682.8	7005.6	7371.4	7559.4	7396.5	7328.4	7323.9	7597.9	8622.6	6851.6
47.5°	7162.5	7224.8	7605.3	7966.6	8301.3	8323.5	8194.7	8239.1	8415.3	9653.3	7808.2
50°	7836.4	7982.9	8233.1	8609.3	9056.5	9417.8	9457.8	9398.6	9549.6	10846.8	8957.3
52.5°	8815.1	8871.4	9100.9	9410.4	9934.6	10547.7	11023.0	10941.5	10894.1	11984.0	10118.2
55°	9545.2	9620.7	9977.5	10402.5	11171.1	11979.5	13010.2	13038.4	12440.1	13076.8	11254.0
57.5°	9324.5	9440.1	9980.5	10834.9	12524.5	14002.3	14769.4	14788.6	13870.5	14138.6	12536.4
60°	8191.7	8246.5	9021.0	10161.1	12640.0	16193.9	17264.5	17109.1	15326.1	15326.1	13669.1
62.5°	5809.1	5895.0	6522.9	8200.6	11415.4	16955.0	20252.7	19931.4	17331.2	16461.9	14344.3
65°	3712.3	3629.4	4045.5	5176.9	8504.2	15831.1	22854.4	22873.7	19217.7	16916.5	13975.7
67°	2689.1	2656.6	2776.5	3539.1	5766.1	13307.8	22909.3	23923.6	20301.6	16629.3	12797.0
67.5°	2459.6	2484.7	2572.1	3192.6	5239.0	12109.9	22660.5	23861.4	20545.9	16456.0	12370.5
70°	1864.3	1821.4	1916.1	2258.2	3140.7	7639.4	19493.1	21884.6	20242.4	14736.8	9884.3
72.5°	1371.3	1366.8	1498.6	1846.5	2418.1	4069.2	14633.1	17547.3	16537.4	11221.4	6223.7
75°	925.5	967.0	1177.2	1543.0	2191.6	2638.7	9976.0	12730.3	11480.6	6371.8	2544.0
77.5°	527.1	530.1	758.2	1239.4	1967.9	2123.4	5911.3	8110.3	6077.2	2119.0	755.2
80°	228.1	250.3	376.1	900.3	1631.8	1880.6	3389.5	4457.1	2458.1	448.7	244.3
82.5°	84.4	99.2	165.8	553.8	1190.5	1548.9	2047.9	2127.9	833.7	158.4	152.6
85°	0.0	2.9	60.7	259.1	620.5	691.6	1368.2	1261.7	368.7	75.5	99.2
87.5°	0.0	0.0	0.0	26.7	81.4	257.7	425.0	473.8	88.8	26.7	23.7
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°	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3
2.5°	5829.9	5733.6	5492.2	5250.9	5071.7	4922.1	4697.1	4574.1	4509.0	4412.7	4418.7
5°	5683.2	5487.8	5062.8	4623.0	4267.7	3921.2	3506.5	3339.2	3198.5	3118.5	3065.2
7.5°	5465.6	5176.9	4547.5	3961.1	3414.7	2809.0	2354.5	2050.9	1846.5	1771.1	1698.5
10°	5227.2	4843.7	4024.8	3211.9	2453.7	1828.8	1443.7	1165.4	1066.1	974.4	983.2
12.5°	5006.6	4540.1	3545.0	2535.1	1719.2	1162.4	906.3	792.2	759.7	749.2	749.2
15°	4825.9	4249.8	3029.7	1905.8	1178.7	835.2	725.6	694.5	682.6	679.7	679.7
17.5°	4633.4	3974.4	2564.7	1408.3	857.4	699.0	662.0	641.2	636.7	633.8	633.8
20°	4461.6	3697.5	2123.4	1048.4	693.0	629.3	605.6	592.3	587.9	584.9	586.4
22.5°	4298.7	3451.7	1708.8	792.2	610.1	573.1	549.3	536.1	527.1	519.7	521.3
25°	4153.6	3214.8	1374.2	648.6	549.3	516.8	493.1	473.8	454.6	445.7	444.2
27.5°	4051.4	3007.5	1070.6	555.3	494.6	459.0	429.4	405.7	380.6	367.3	364.2
30°	3967.0	2797.2	847.0	490.1	439.8	405.7	368.7	334.6	308.0	294.7	288.7
32.5°	3912.2	2597.3	667.8	436.8	393.9	352.5	311.0	276.9	247.3	234.0	231.0
35°	3903.3	2430.0	546.4	392.4	352.5	308.0	265.1	228.1	202.8	189.6	186.6
37.5°	3967.0	2301.1	457.6	356.8	318.4	269.5	222.1	188.0	165.8	155.5	154.0
40°	4137.3	2219.7	396.9	327.2	287.3	234.0	189.6	160.0	137.7	127.3	127.3
42.5°	4461.6	2222.7	356.8	299.1	256.2	199.9	161.4	133.3	114.0	105.1	102.2
45°	4968.0	2323.3	322.8	271.0	226.6	173.2	137.7	109.6	90.3	82.9	82.9
47.5°	5646.2	2523.3	293.2	242.9	199.9	148.1	117.0	88.8	72.6	65.2	65.2
50°	6533.2	2844.6	268.0	219.2	177.7	127.3	94.8	72.6	56.3	50.4	48.9
52.5°	7460.2	3241.5	238.4	198.4	152.6	108.1	77.0	56.3	43.0	38.5	37.0
55°	8483.4	3629.4	210.2	177.7	124.4	90.3	60.7	44.4	31.1	26.7	26.7
57.5°	9515.6	4010.0	176.2	148.1	97.7	66.6	47.3	32.5	20.8	16.3	16.3
60°	10389.2	4132.8	149.5	119.9	74.0	47.3	34.1	20.8	11.9	7.4	7.4
62.5°	10509.1	3718.2	125.9	91.8	53.3	32.5	17.7	11.9	4.5	2.9	2.9
65°	9857.6	3020.8	105.1	69.6	35.6	16.3	7.4	4.5	1.5	0.0	0.0
67°	8832.9	2449.2	85.9	51.8	25.1	10.3	4.5	1.5	0.0	0.0	0.0
67.5°	8570.8	2335.2	82.9	48.9	22.2	8.9	2.9	1.5	0.0	0.0	0.0
70°	6725.7	1748.8	59.2	29.6	13.3	5.9	0.0	0.0	0.0	0.0	0.0
72.5°	4180.3	989.2	43.0	17.7	8.9	2.9	0.0	0.0	0.0	0.0	0.0
75°	1580.0	346.5	29.6	11.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	491.6	131.8	17.7	8.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	165.8	50.4	11.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.2	20.8	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	63.7	8.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	2.9	1.5	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)