

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: P647682

Luminaire Tested: **GALN-SA9D-835-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46817.9 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

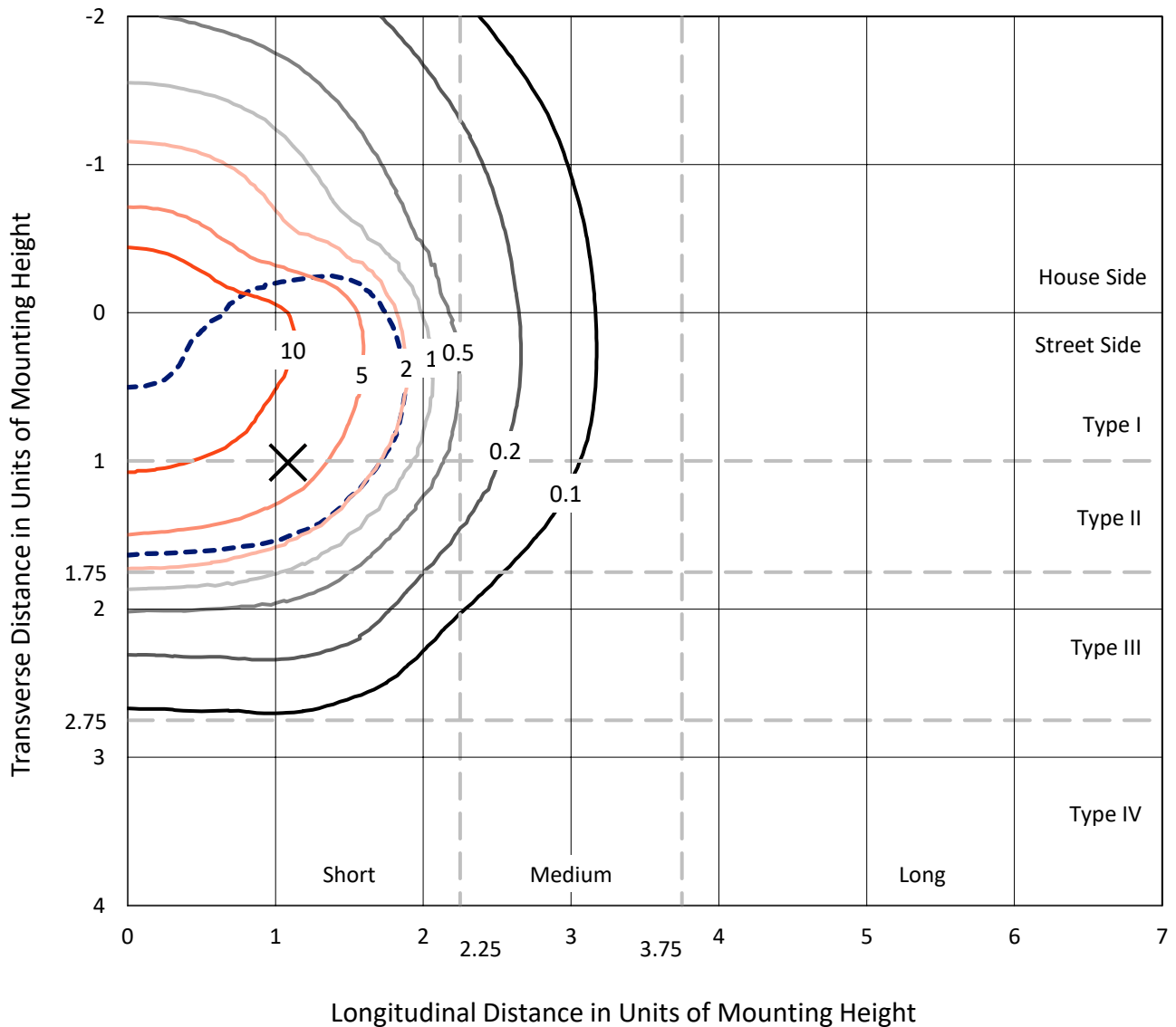
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

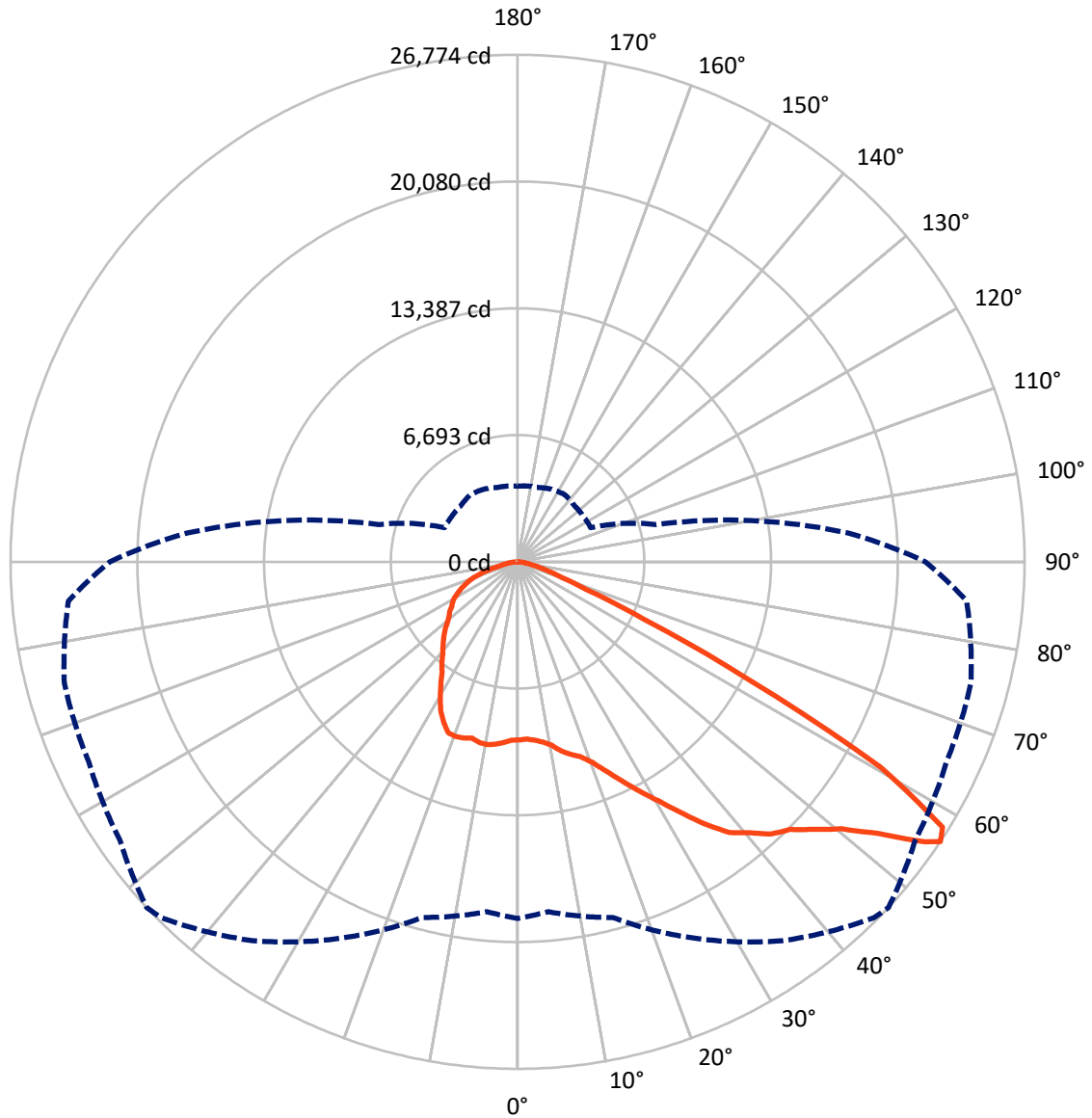
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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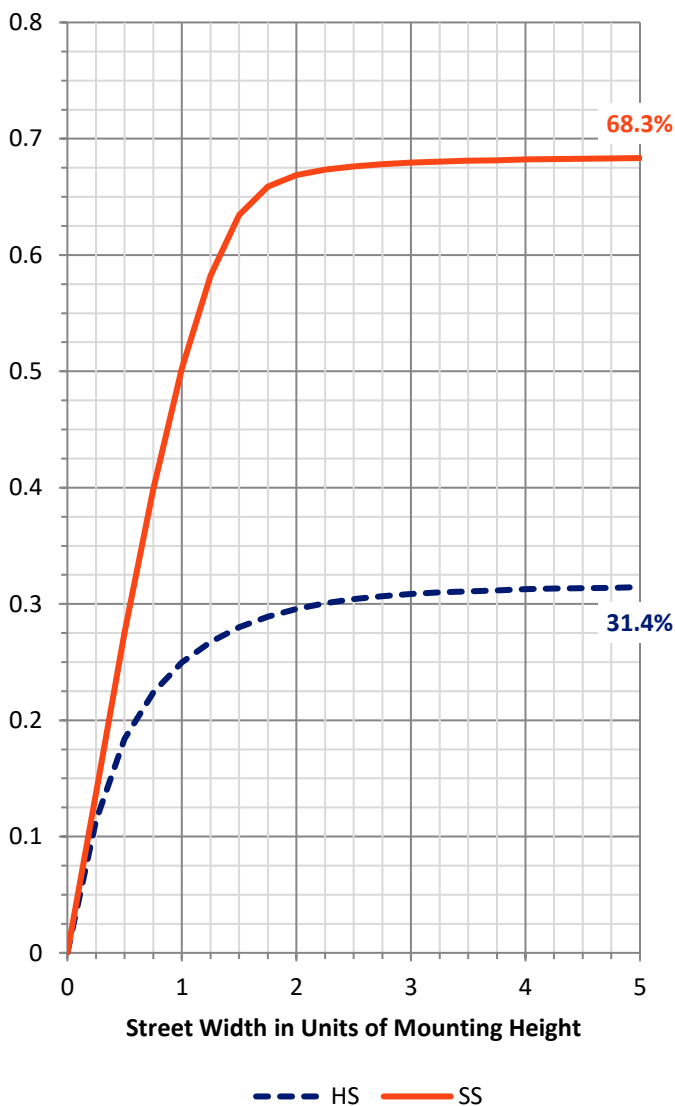
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14836.0	0.0	14836.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	31981.9	0.0	31981.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	46817.9	0.0	46817.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	916.3	2.0
10°-20°	2890.5	6.2
20°-30°	5109.8	10.9
30°-40°	7674.7	16.4
40°-50°	10532.8	22.5
50°-60°	12548.4	26.8
60°-70°	5370.0	11.5
70°-80°	1519.7	3.2
80°-90°	255.7	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°	46817.9	100.0
0°-180°	46817.9	100.0

**Coefficient of Utilization**

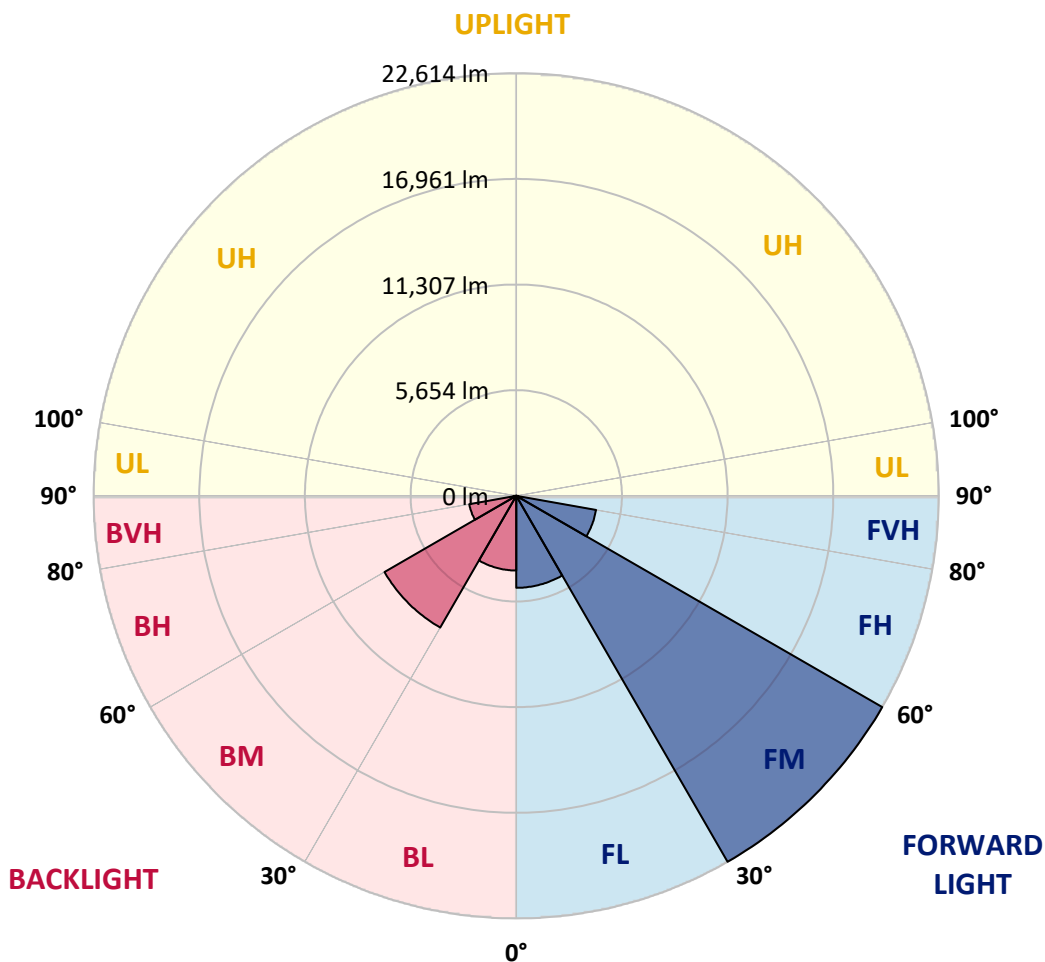


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4922.2	10.5			
FM (30°-60°)	22614.1	48.3			
FH (60°-80°)	4337.0	9.3			G2/5000
FVH (80°-90°)	108.5	0.2			G2/225
BL (0°-30°)	3994.5	8.5	B4/5000		
BM (30°-60°)	8141.8	17.4	B4/8500		
BH (60°-80°)	2552.6	5.5	B4/5000		G4/5000
BVH (80°-90°)	147.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3
2.5°	9368.4	9350.6	9338.6	9434.1	9398.3	9404.3	9368.4	9404.3	9428.2	9374.5	9452.1
5°	9350.6	9404.3	9356.5	9386.4	9464.0	9440.2	9464.0	9535.7	9517.8	9499.8	9475.9
7.5°	9517.8	9523.7	9559.6	9571.5	9595.4	9571.5	9607.3	9673.0	9655.1	9553.5	9565.5
10°	9756.6	9768.6	9774.5	9840.2	9882.0	9888.0	9846.1	9786.4	9780.5	9917.8	9822.3
12.5°	10031.2	10001.4	10073.1	10096.9	10144.7	10198.4	10252.2	10126.8	10204.4	10210.4	10096.9
15°	10431.3	10461.2	10377.6	10377.6	10395.5	10401.5	10550.7	10491.0	10479.0	10413.4	10461.2
17.5°	11028.4	10825.4	10819.4	10735.8	10723.9	10771.7	10825.4	10873.1	11034.3	10903.0	10646.3
20°	11464.3	11512.1	11338.9	11237.4	11255.3	11362.8	11309.0	11524.0	11637.4	11422.5	11171.7
22.5°	12234.5	12073.3	12115.1	11888.2	11906.1	12019.6	12013.6	12234.5	12300.2	11959.9	11595.7
25°	12754.1	12712.2	12748.0	12569.0	12592.8	12682.3	12825.7	13189.9	13082.4	12706.3	11864.3
27.5°	13512.3	13428.8	13398.9	13333.2	13309.4	13548.2	13715.3	14103.5	14025.8	13476.5	12342.0
30°	14288.6	14234.8	14264.7	13996.0	14091.5	14599.0	14646.8	15178.2	15142.4	14175.1	12873.5
32.5°	14825.9	14855.8	14909.6	14760.3	15184.2	15590.2	15751.5	16354.5	16384.4	15375.3	13900.4
35°	15691.7	15590.2	15620.1	15793.3	15990.3	16730.7	16993.4	17393.5	17644.3	16635.1	14885.7
37.5°	16235.1	16342.5	16217.2	16491.9	17005.4	17895.1	18133.9	18545.9	18808.6	17877.1	16229.2
40°	17082.9	16909.8	16999.4	17196.4	17721.9	18880.2	18814.6	19238.5	19322.1	18934.0	17483.1
42.5°	17996.6	17912.9	17787.6	18235.4	18677.2	19519.2	19650.5	19453.5	19877.4	19967.0	19274.3
45°	19089.2	19190.7	19208.6	19220.6	19608.7	20343.1	20164.0	19990.9	20480.5	21131.3	20384.9
47.5°	20104.3	19781.9	20014.7	20337.2	20886.5	20892.5	21101.5	20689.4	21209.0	21788.1	21388.0
50°	20444.7	20289.4	20599.9	21209.0	22056.8	22146.4	22170.3	21585.1	21853.8	22313.5	21734.4
52.5°	20313.3	20259.6	21053.7	21997.1	23239.0	23692.9	23812.3	23089.8	23239.0	23030.1	22498.6
55°	19686.3	19847.6	20647.6	22570.3	24475.1	25878.2	26105.1	25191.5	24242.2	24403.4	23818.2
56°	18826.5	18545.9	19441.5	21919.5	24421.3	26588.8	26773.9	25633.5	24988.6	24779.6	23806.3
57.5°	15972.4	15608.2	16784.5	19722.1	23065.9	26320.1	26457.4	25818.6	24863.1	24439.2	22068.8
60°	9350.6	9529.7	11022.4	13601.9	17793.5	21579.2	22038.9	22504.6	21865.7	19967.0	16426.2
62.5°	4514.1	4400.6	5469.4	7798.1	10843.3	13775.1	13637.7	14945.4	15661.9	14187.0	10371.6
65°	2364.5	2352.6	2985.5	4257.3	5959.0	7236.8	7362.2	8066.8	9052.0	7308.4	5266.4
67.5°	1737.6	1785.3	2101.8	2991.5	3833.3	3911.0	3893.1	4245.3	4340.9	3672.2	3236.3
70°	1361.4	1385.3	1618.1	2274.9	2854.1	2555.6	2501.8	2543.7	2824.3	2943.7	2800.4
72.5°	985.2	1009.1	1206.1	1534.5	1785.3	1743.5	1779.4	2012.2	2358.6	2483.9	2334.7
75°	656.8	674.7	782.2	937.4	1056.9	1140.4	1206.1	1474.9	1797.3	1868.9	1797.3
77.5°	453.8	471.7	543.3	662.8	674.7	728.4	752.3	877.7	1074.7	1164.3	1116.6
80°	256.7	256.7	292.6	340.4	418.0	489.6	501.6	603.1	692.6	752.3	764.3
82.5°	119.4	125.4	155.3	209.0	274.7	340.4	352.3	418.0	483.7	543.3	561.3
85°	59.7	65.7	89.6	125.4	167.2	203.0	197.1	203.0	214.9	203.0	209.0
87.5°	17.9	17.9	23.9	29.8	23.9	29.8	29.8	35.9	41.8	47.8	53.7
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°	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3	9404.3
2.5°	9458.0	9475.9	9356.5	9470.0	9428.2	9422.2	9505.8	9493.9	9523.7	9511.8	9440.2
5°	9464.0	9422.2	9547.6	9434.1	9487.9	9601.3	9523.7	9702.9	9613.3	9673.0	9541.6
7.5°	9649.1	9661.0	9637.2	9684.9	9661.0	9714.8	9673.0	9714.8	9643.1	9649.1	9768.6
10°	9810.3	9774.5	9816.3	9756.6	9798.4	9780.5	9684.9	9655.1	9679.0	9649.1	9726.7
12.5°	10108.8	10043.2	10013.3	9941.7	9893.9	9714.8	9565.5	9481.9	9595.4	9613.3	9577.4
15°	10413.4	10419.4	10282.0	10120.8	9822.3	9553.5	9589.4	9619.2	9619.2	9667.0	9577.4
17.5°	10604.5	10604.5	10479.0	10156.6	9852.1	9696.9	9661.0	9565.5	9481.9	9470.0	9464.0
20°	10938.8	10837.3	10550.7	10150.7	9840.2	9768.6	9499.8	9272.9	9099.8	9040.0	9034.1
22.5°	11321.0	11064.3	10664.1	10162.6	9822.3	9720.8	9219.2	8878.8	8568.4	8437.0	8454.9
25°	11673.3	11261.3	10729.8	10108.8	9756.6	9267.0	8705.7	8233.9	7911.6	7804.1	7750.4
27.5°	11918.0	11470.2	10729.8	10156.6	9511.8	8759.4	8186.2	7583.1	7302.5	7230.8	7242.8
30°	12246.5	11732.9	10914.9	10055.1	9022.1	8102.6	7415.9	7021.9	6854.7	6795.0	6836.8
32.5°	13016.7	12419.6	11171.7	9810.3	8442.9	7445.8	6890.5	6669.6	6424.7	6305.3	6263.5
35°	13852.7	13070.5	11422.5	9398.3	7792.1	6848.7	6502.4	6299.4	6006.8	5875.5	5899.4
37.5°	15034.9	13906.4	11440.4	8717.6	7087.6	6514.3	6197.9	5881.4	5642.6	5439.6	5379.8
40°	16629.2	15046.9	11398.6	8001.1	6520.3	6120.2	5887.4	5493.3	5224.6	5081.3	5111.2
42.5°	18032.3	16384.4	11225.5	7189.0	6006.8	5851.6	5588.8	5200.8	4938.0	4788.7	4776.8
45°	19214.6	17369.6	10897.0	6496.4	5576.9	5553.0	5248.5	4950.0	4741.0	4603.6	4663.3
47.5°	20307.3	18163.7	10401.5	5803.8	5182.8	5230.6	4938.0	4752.9	4621.6	4496.1	4490.2
50°	20701.4	18151.8	9965.6	5230.6	4866.3	4842.5	4830.6	4633.5	4496.1	4388.6	4436.5
52.5°	21358.2	18354.8	9493.9	4836.5	4579.8	4585.7	4627.5	4484.2	4329.0	4263.3	4323.0
55°	22301.6	18384.7	8454.9	4376.7	4340.9	4382.7	4382.7	4287.2	4155.8	4102.1	4072.2
56°	21531.3	17495.0	7583.1	4257.3	4221.5	4221.5	4334.9	4227.4	4066.3	4024.5	3988.6
57.5°	19859.5	15327.5	6347.2	4114.0	4060.2	4143.9	4203.5	4090.2	3940.8	3881.2	3917.0
60°	13697.4	10371.6	4770.8	3803.5	3803.5	3940.8	3988.6	3821.4	3755.7	3749.8	3702.0
62.5°	7995.1	6042.6	3731.9	3522.9	3534.9	3648.2	3684.1	3588.6	3504.9	3606.5	3654.3
65°	4239.4	3606.5	3200.4	3224.3	3230.3	3319.8	3475.1	3469.2	3463.2	3493.0	3499.0
67.5°	3069.0	2997.4	2907.9	2883.9	2895.9	2961.6	3116.9	3236.3	3230.3	3158.6	3104.9
70°	2734.7	2633.2	2579.4	2585.5	2537.7	2615.3	2740.7	2818.3	2681.0	2597.4	2561.6
72.5°	2274.9	2245.1	2209.2	2215.3	2119.7	2101.8	1958.5	1958.5	1922.7	1898.8	1940.6
75°	1737.6	1725.6	1743.5	1713.7	1612.2	1504.7	1421.1	1343.5	1224.1	1176.3	1152.4
77.5°	1098.6	1134.5	1176.3	1110.6	1068.8	991.2	907.6	830.0	734.5	680.7	680.7
80°	746.4	776.3	806.1	794.1	746.4	674.7	609.0	525.5	459.8	418.0	412.0
82.5°	567.2	591.2	632.9	585.1	537.4	477.7	423.9	364.3	304.5	256.7	256.7
85°	203.0	232.9	256.7	280.6	298.6	304.5	262.7	214.9	173.1	137.3	131.4
87.5°	53.7	59.7	65.7	59.7	59.7	59.7	65.7	59.7	53.7	41.8	41.8
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)