

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: P459149

Luminaire Tested: **GALN-SA6B-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22738 lumens  
Efficiency: N/A  
Efficacy: 93.6 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 (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

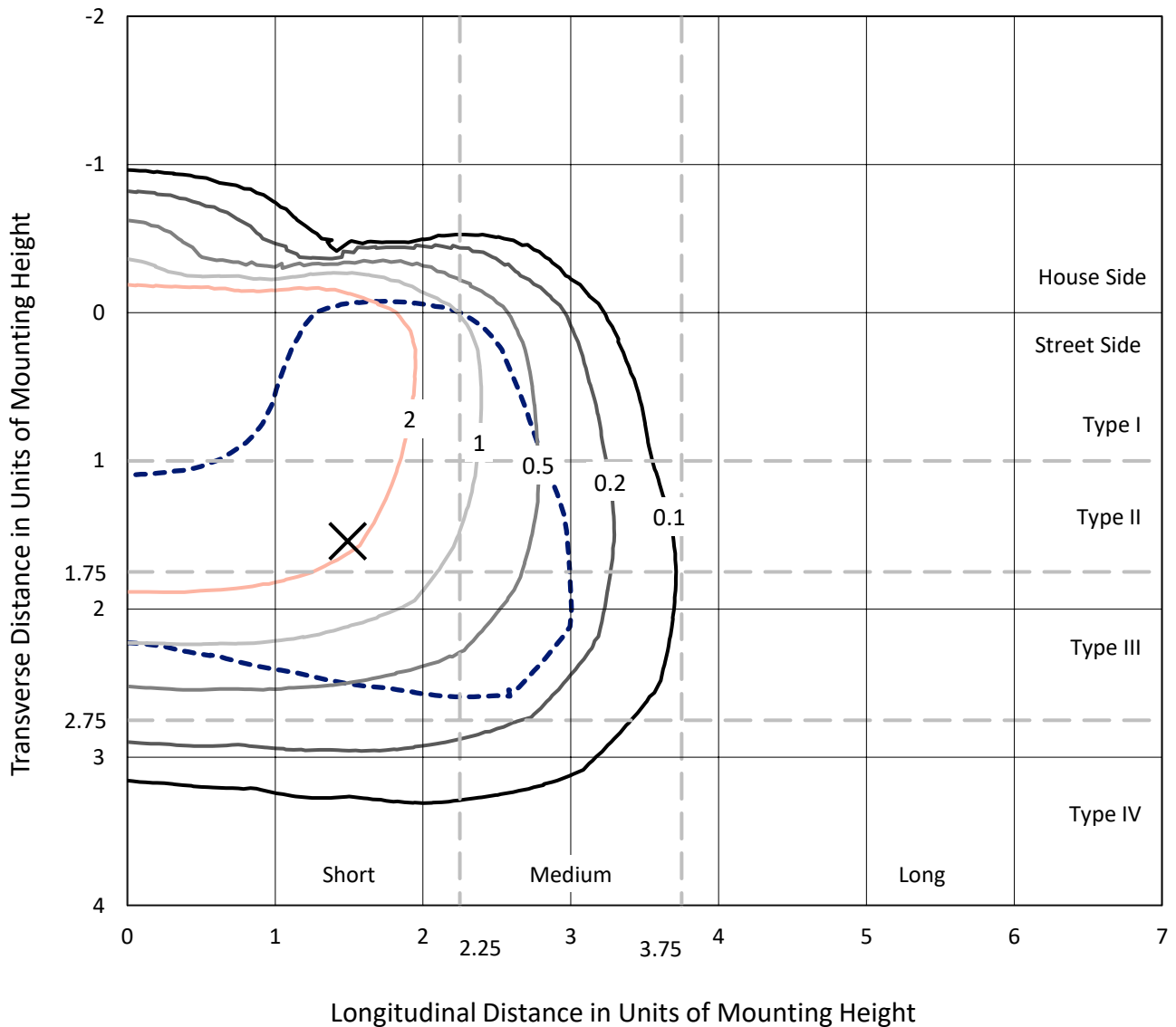




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### Iso-Footcandle Lines of Horizontal Illumination

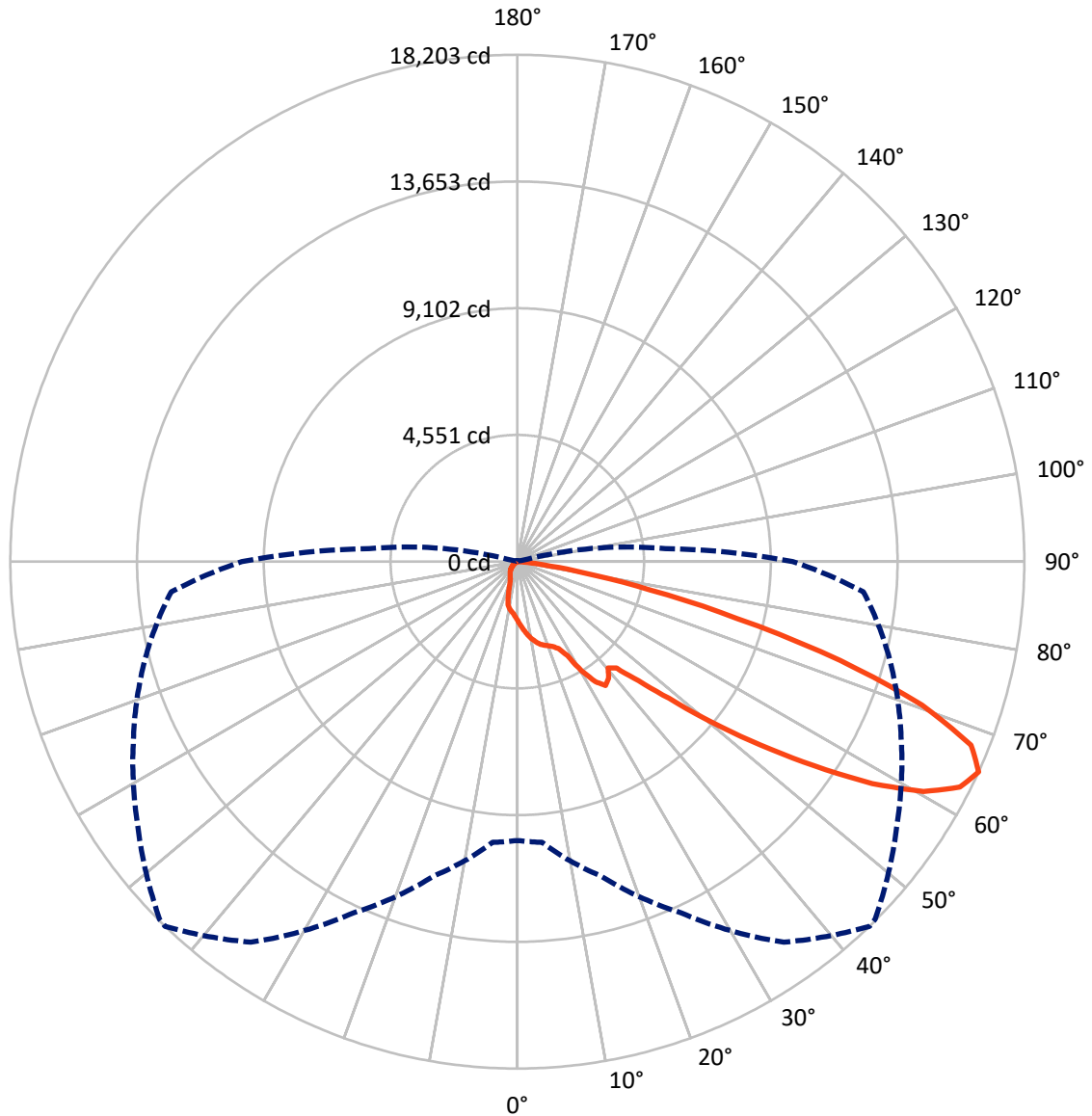
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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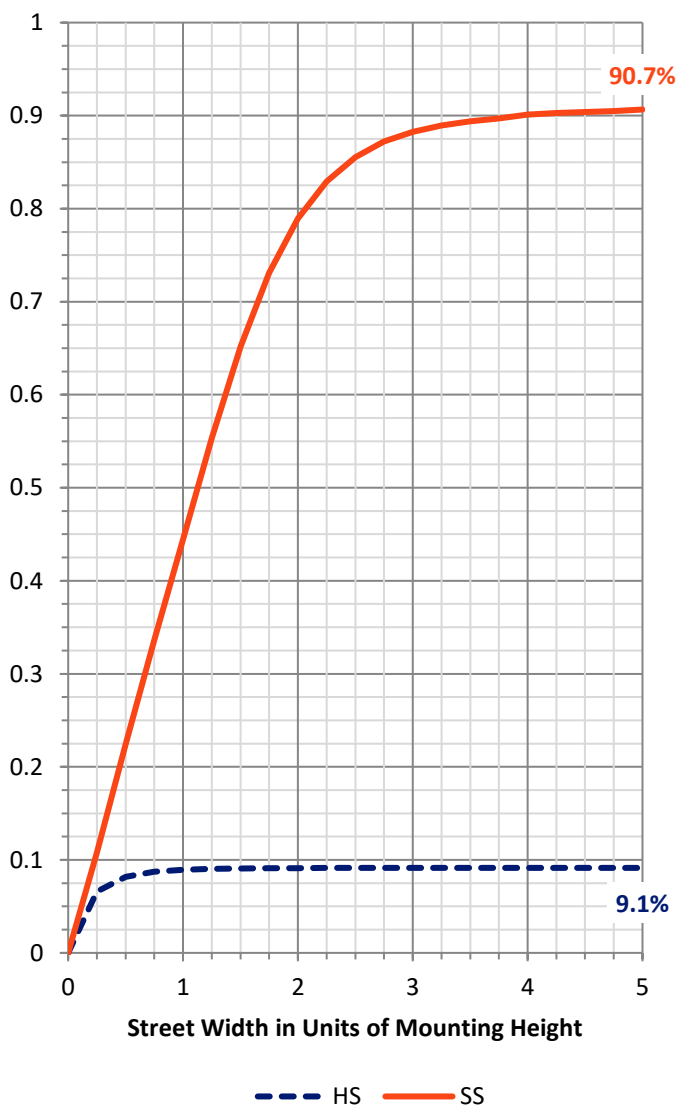
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2095.0	0.0	2095.0
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	20643.0	0.0	20643.0
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	22738.0	0.0	22738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.5	0.9
10°-20°	633.5	2.8
20°-30°	1074.2	4.7
30°-40°	1786.0	7.9
40°-50°	3118.3	13.7
50°-60°	6092.1	26.8
60°-70°	7068.3	31.1
70°-80°	2573.9	11.3
80°-90°	181.4	0.8
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°	22738.0	100.0
0°-180°	22738.0	100.0

**Coefficient of Utilization**



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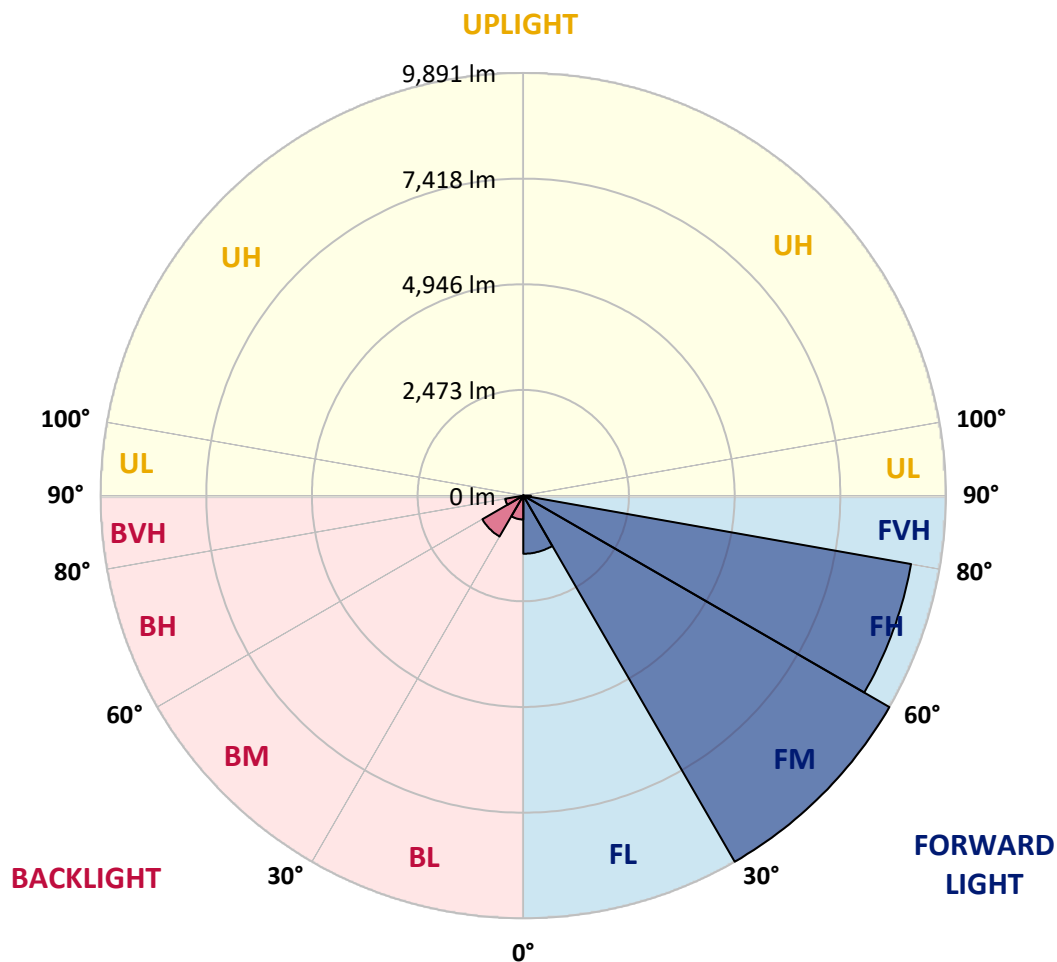
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1359.9	6.0			
FM	(30°-60°)	9891.1	43.5			
FH	(60°-80°)	9213.1	40.5			G4/12000
FVH	(80°-90°)	178.9	0.8			G2/225
BL	(0°-30°)	558.2	2.5	B2/1000		
BM	(30°-60°)	1105.3	4.9	B2/2500		
BH	(60°-80°)	429.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	44°	45°	55°	65°	75°	85°
0°	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2
2.5°	2382.1	2371.6	2366.4	2338.6	2317.8	2291.7	2291.7	2258.7	2220.5	2178.8	2140.6
5°	2647.9	2630.5	2607.9	2583.6	2535.0	2465.5	2465.5	2396.0	2316.0	2244.8	2166.6
7.5°	2903.3	2887.7	2849.4	2802.5	2722.6	2649.6	2644.4	2543.6	2448.1	2340.4	2229.2
10°	3127.4	3115.3	3082.3	2991.9	2908.5	2813.0	2811.2	2698.3	2587.1	2455.0	2317.8
12.5°	3283.8	3285.5	3242.1	3155.2	3047.5	2957.2	2950.2	2839.0	2722.6	2580.1	2411.6
15°	3395.0	3395.0	3349.8	3252.5	3155.2	3075.3	3068.4	2971.1	2851.2	2696.5	2514.1
17.5°	3426.3	3436.7	3388.1	3301.2	3223.0	3153.5	3151.8	3070.1	2974.5	2825.1	2618.4
20°	3414.1	3424.5	3386.3	3318.6	3264.7	3224.7	3219.5	3186.5	3097.9	2957.2	2729.6
22.5°	3388.1	3398.5	3370.7	3330.7	3304.7	3316.8	3308.1	3335.9	3289.0	3118.7	2861.6
25°	3393.3	3403.7	3382.8	3360.3	3382.8	3457.6	3480.1	3600.0	3558.3	3323.8	3004.1
27.5°	3556.6	3577.4	3547.9	3558.3	3638.2	3812.0	3855.4	4062.2	3878.0	3584.4	3226.5
30°	3919.7	3905.8	3850.2	3900.6	4178.6	4546.9	4534.8	4501.8	4213.3	3885.0	3490.6
32.5°	4249.8	4237.7	4234.2	4451.4	4955.2	5134.2	5125.5	4805.8	4513.9	4229.0	3751.2
35°	4383.6	4336.7	4326.3	4852.7	5695.4	5459.1	5405.2	4930.9	4878.8	4604.3	4017.0
37.5°	4786.7	4753.7	4592.1	4918.8	5400.0	5321.8	5280.1	5146.4	5268.0	4936.1	4317.6
40°	5617.2	5525.1	5379.2	5059.5	4981.3	5014.3	5056.0	5422.6	5728.4	5389.6	4718.9
42.5°	6649.3	6628.4	6357.4	5761.4	5175.9	5221.1	5274.9	5999.5	6390.4	6072.4	5374.0
45°	7888.1	7917.6	7526.7	6823.0	6055.1	6093.3	6171.5	6850.8	7286.9	7134.0	6404.3
47.5°	9014.0	8991.4	8859.3	8127.9	7419.0	7333.8	7460.7	7943.7	8527.5	8551.8	7683.1
50°	10146.8	10266.7	10070.3	9783.7	9257.2	9078.2	9031.3	9267.6	10157.2	10040.8	9219.0
52.5°	11774.8	11837.3	11469.0	11396.0	11515.9	10935.6	10888.7	10946.0	11741.8	11342.2	10369.2
55°	12798.2	12761.7	12624.4	13194.3	13668.6	12944.1	12885.0	12653.9	13057.0	12261.3	11475.9
57.5°	13121.3	13173.4	13493.1	14523.5	15645.9	15030.8	14923.1	14266.3	14005.7	13117.8	12494.1
60°	12977.1	13072.7	13762.4	15294.9	16851.7	16759.6	16667.5	15564.2	14686.8	13833.7	13208.2
62.5°	11950.3	12084.1	13187.3	15157.6	17260.0	17835.1	17720.4	16373.8	15140.3	14181.2	13333.3
65°	10014.7	10113.8	11698.3	13911.9	16679.6	18203.4	18161.7	16627.5	15211.5	13863.2	12476.7
67.5°	7139.2	7476.3	8944.5	11724.4	14963.0	17574.4	17645.7	16323.5	14542.6	12488.9	10332.7
70°	4487.9	4717.2	5770.1	8393.7	11995.4	15418.2	15652.8	14931.8	12620.9	9735.0	6916.8
72.5°	2140.6	2310.8	3061.4	5313.2	8466.7	12131.0	12316.9	12257.8	9759.3	6133.2	3568.7
75°	953.9	1018.2	1461.2	2712.2	5466.1	8153.9	8635.2	8715.1	6098.5	3000.6	1388.2
77.5°	486.5	488.2	684.6	1313.5	2729.6	4864.9	4960.5	5240.2	3306.4	1322.2	483.0
80°	258.9	276.3	363.1	620.3	1416.0	2396.0	2383.8	2620.1	1466.4	648.1	161.6
82.5°	116.4	128.6	205.0	324.9	691.5	908.7	979.9	1072.0	629.0	413.5	71.2
85°	34.7	41.7	100.8	163.3	250.2	262.4	293.6	378.8	356.2	293.6	36.5
87.5°	5.2	5.2	41.7	45.2	36.5	46.9	48.6	53.9	114.7	107.7	19.1
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°	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2	2116.2
2.5°	2119.7	2107.5	2064.1	2027.6	1996.3	1977.2	1954.6	1940.7	1933.8	1928.6	1930.3
5°	2128.4	2098.9	2024.1	1965.1	1919.9	1871.2	1838.2	1819.1	1810.4	1796.5	1796.5
7.5°	2177.0	2130.1	2025.9	1935.5	1857.3	1791.3	1728.8	1706.2	1690.6	1687.1	1683.6
10°	2246.5	2187.5	2045.0	1919.9	1808.7	1718.4	1629.7	1551.6	1490.7	1454.3	1449.0
12.5°	2333.4	2248.3	2074.5	1909.5	1767.0	1607.2	1372.6	1214.5	1108.5	1075.5	1080.7
15°	2413.3	2321.3	2104.1	1900.8	1690.6	1332.6	1066.8	886.1	832.2	827.0	828.8
17.5°	2508.9	2399.4	2138.8	1888.6	1480.3	1018.2	792.3	743.6	754.1	771.4	769.7
20°	2607.9	2482.8	2180.5	1815.6	1181.5	766.2	700.2	705.4	721.0	736.7	740.2
22.5°	2713.9	2578.4	2229.2	1640.2	901.7	667.2	663.7	670.7	686.3	703.7	707.1
25°	2859.9	2698.3	2265.7	1410.8	682.8	616.8	623.7	635.9	649.8	668.9	672.4
27.5°	3047.5	2859.9	2284.8	1112.0	590.7	571.6	573.4	590.7	608.1	625.5	625.5
30°	3290.8	3052.7	2246.5	840.9	545.6	528.2	521.2	531.7	554.3	571.6	573.4
32.5°	3507.9	3235.2	2145.8	642.9	512.6	488.2	470.9	472.6	481.3	491.7	493.4
35°	3725.1	3412.4	1973.8	540.4	477.8	450.0	423.9	410.0	403.1	397.9	403.1
37.5°	4003.1	3633.0	1744.4	491.7	448.3	413.5	377.0	347.5	323.2	307.5	311.0
40°	4361.0	3938.8	1473.4	460.4	420.5	378.8	330.1	291.9	250.2	236.3	229.3
42.5°	4951.8	4402.7	1188.4	434.4	392.7	342.3	281.5	229.3	191.1	177.2	180.7
45°	5884.8	4988.3	915.6	406.6	364.9	302.3	236.3	180.7	149.4	142.5	145.9
47.5°	7121.9	5745.8	705.4	375.3	330.1	258.9	185.9	142.5	123.4	121.6	119.9
50°	8286.0	6451.2	589.0	340.5	288.4	215.4	152.9	119.9	107.7	106.0	106.0
52.5°	9338.9	6956.8	479.5	300.6	243.2	177.2	128.6	106.0	95.6	90.3	90.3
55°	10275.4	7286.9	389.2	251.9	191.1	140.7	111.2	95.6	83.4	76.4	74.7
57.5°	10982.5	7326.9	291.9	201.5	142.5	109.5	95.6	83.4	69.5	60.8	57.3
60°	11284.8	6981.1	215.4	152.9	106.0	86.9	76.4	67.8	52.1	43.4	41.7
62.5°	10980.8	6308.7	159.8	116.4	81.7	64.3	53.9	50.4	36.5	26.1	24.3
65°	9891.4	5337.5	126.8	88.6	60.8	46.9	34.7	33.0	22.6	12.2	10.4
67.5°	7924.6	4180.3	100.8	66.0	43.4	31.3	22.6	20.8	12.2	3.5	3.5
70°	5153.3	2672.2	81.7	48.6	27.8	20.8	13.9	10.4	6.9	1.7	0.0
72.5°	2548.9	1249.2	66.0	38.2	19.1	10.4	5.2	3.5	5.2	0.0	0.0
75°	988.6	444.8	48.6	26.1	10.4	5.2	3.5	0.0	1.7	0.0	0.0
77.5°	328.4	147.7	29.5	13.9	6.9	3.5	0.0	0.0	0.0	0.0	0.0
80°	121.6	57.3	15.6	8.7	3.5	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	48.6	22.6	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.3	13.9	6.9	5.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	10.4	6.9	5.2	3.5	1.7	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)