

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: P532153

Luminaire Tested: **GALN-SA7C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33268 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

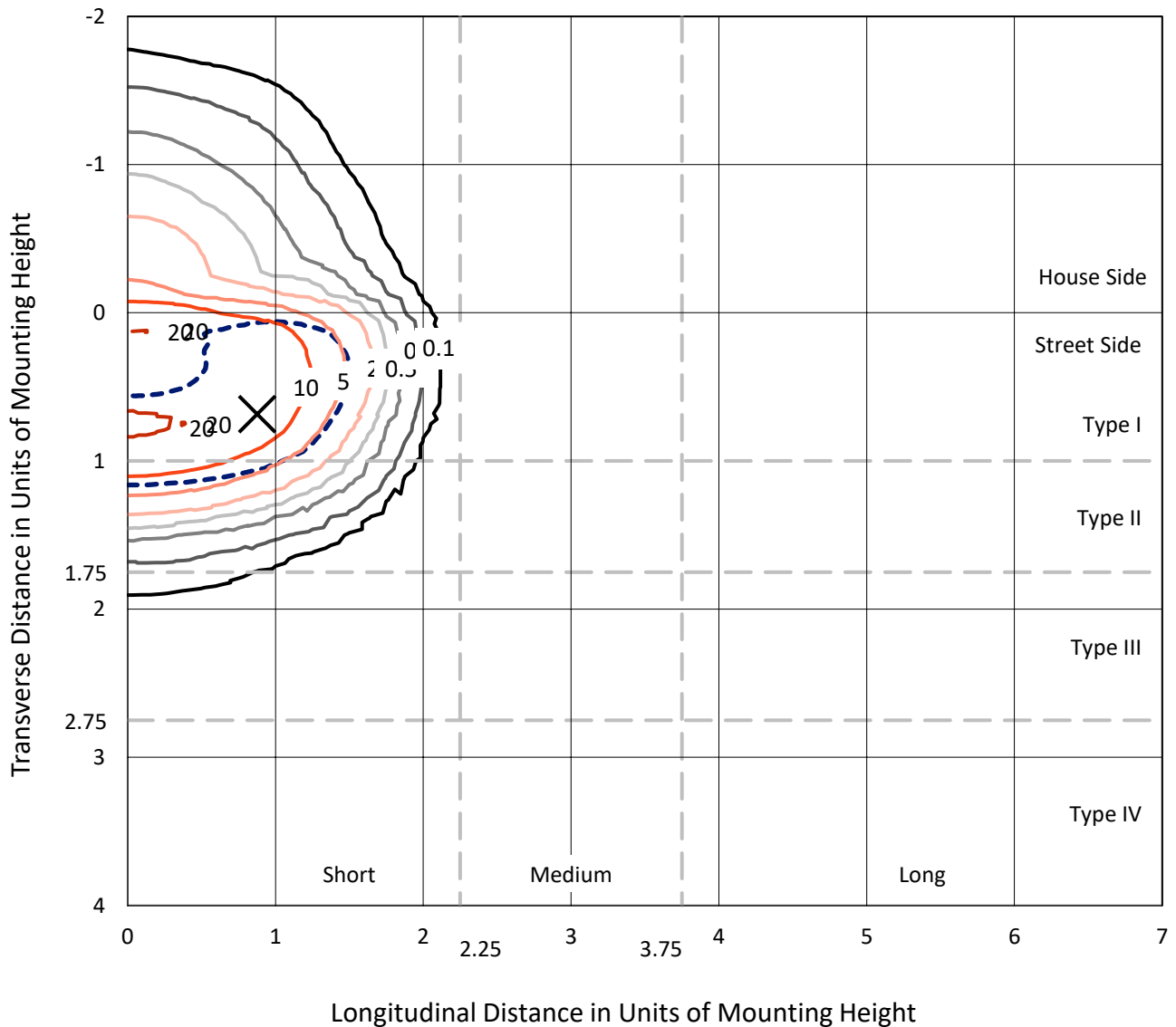
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532153  
 CATALOG NUMBER: GALN-SA7C-730-U-AFL-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

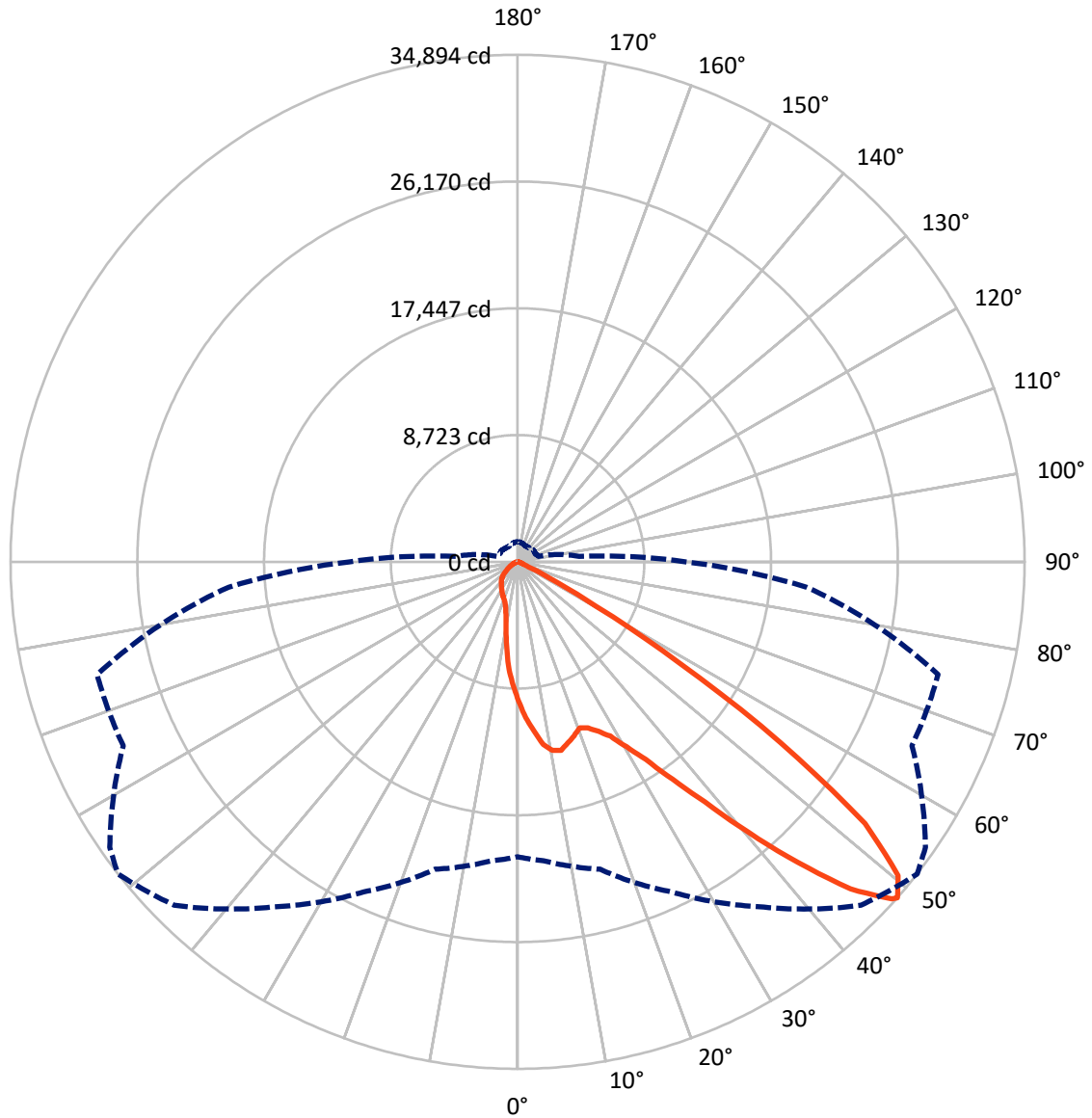
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P532153  
CATALOG NUMBER: GALN-SA7C-730-U-AFL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P532153  
 CATALOG NUMBER: GALN-SA7C-730-U-AFL-GRSBK

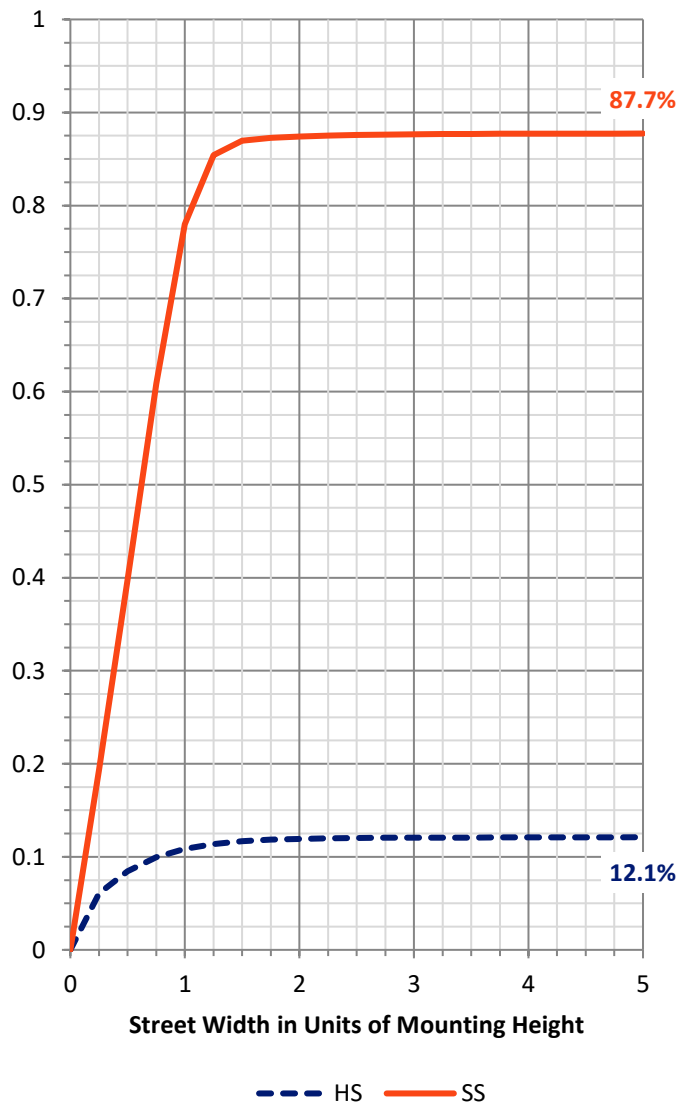
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4050.6	0.0	4050.6
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	29217.3	0.0	29217.3
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	33268.0	0.0	33268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	879.3	2.6
10°-20°	2298.0	6.9
20°-30°	3923.7	11.8
30°-40°	7225.4	21.7
40°-50°	11221.1	33.7
50°-60°	6753.2	20.3
60°-70°	781.1	2.3
70°-80°	151.2	0.5
80°-90°	34.9	0.1
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°	33268.0	100.0
0°-180°	33268.0	100.0

**Coefficient of Utilization**

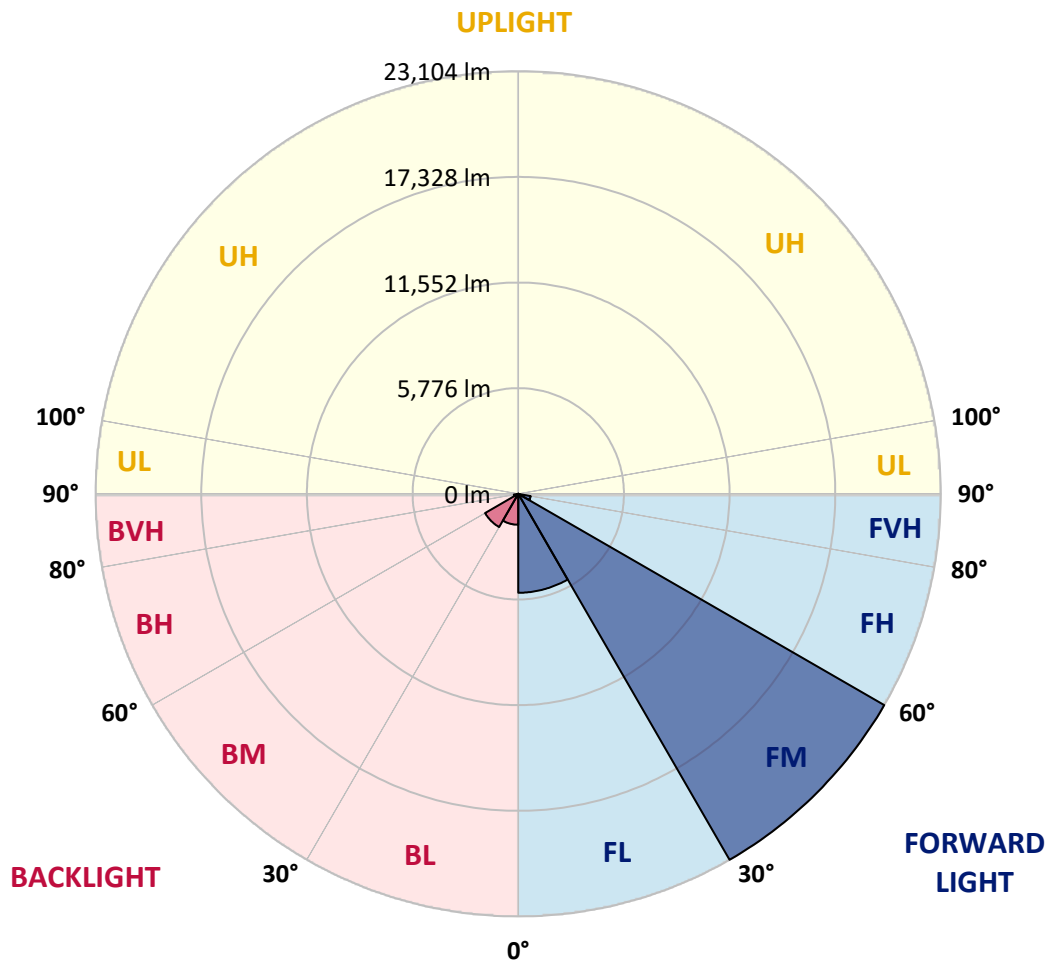


REPORT NUMBER: P532153  
 CATALOG NUMBER: GALN-SA7C-730-U-AFL-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5408.9	16.3			
FM (30°-60°)	23104.0	69.4			
FH (60°-80°)	687.8	2.1			G1/1800
FVH (80°-90°)	16.6	0.0			G1/100
BL (0°-30°)	1692.1	5.1	B3/2500		
BM (30°-60°)	2095.8	6.3	B2/2500		
BH (60°-80°)	244.5	0.7	B1/500		G1/500
BVH (80°-90°)	18.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





REPORT NUMBER: P532153

CATALOG NUMBER: GALN-SA7C-730-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2
2.5°	11644.1	11377.4	11401.6	11227.0	11125.2	10960.3	10737.2	10693.6	10451.1	10121.3	9786.7
5°	12691.7	12628.6	12711.1	12458.9	12468.6	12197.0	11673.2	11682.9	11125.2	10586.9	10068.0
7.5°	12759.5	12614.1	12696.5	12919.6	13050.5	13002.0	12706.2	12449.2	11920.6	11130.1	10373.5
10°	11425.9	11702.3	11789.6	12158.2	12682.0	13234.8	13200.9	13215.4	12774.1	11741.1	10635.4
12.5°	10625.7	10441.4	10737.2	10960.3	11750.8	12822.6	13312.4	13419.1	13453.1	12332.8	10897.3
15°	10262.0	10262.0	10310.5	10373.5	10945.8	11935.1	12934.1	13244.5	13976.8	13108.7	11309.5
17.5°	10489.9	10480.2	10548.1	10417.1	10630.5	11391.9	12585.0	12939.0	14563.6	13870.1	11634.4
20°	11183.4	11217.3	11173.7	10795.4	10810.0	11382.2	12197.0	12754.7	14961.3	14529.7	12066.0
22.5°	12148.5	12167.9	11920.6	11508.3	11387.1	11668.4	12420.1	12846.8	15281.4	15320.2	12197.0
25°	13263.9	13186.3	13137.8	12555.9	12187.3	12429.8	12924.4	13171.8	15480.2	15999.1	12570.4
27.5°	14811.0	14655.8	14359.9	13841.0	13569.4	13225.1	13579.1	13986.5	16047.6	16949.7	12977.8
30°	17095.2	16959.4	16382.3	15713.0	15000.1	14660.6	14772.2	14995.3	17070.9	18050.6	13516.1
32.5°	20533.6	20247.5	19413.3	18137.9	17167.9	16231.9	16202.8	16440.5	17987.5	19573.4	14156.3
35°	24321.2	24233.9	23007.0	21692.7	19815.9	18370.6	18394.9	18521.0	19743.1	21571.4	14995.3
37.5°	26838.2	27318.3	26537.5	25126.3	23550.1	21484.1	20960.4	21004.0	22153.4	23938.1	16508.4
40°	28782.9	28375.6	28467.7	28137.9	27061.3	25654.9	24495.8	24267.9	24942.0	26556.9	18011.8
42.5°	27934.2	27953.6	28521.1	29301.9	29568.6	29466.7	28283.4	27851.8	27328.0	28700.5	19442.4
45°	25538.5	26038.0	26775.2	28841.1	30654.9	32357.2	32124.4	31406.6	28976.9	30397.9	20266.9
47.5°	21716.9	21697.5	22905.1	25591.8	29621.9	33608.4	34665.6	34161.3	30145.7	30208.8	20097.1
48°	20305.7	20654.9	21901.2	25063.2	28967.2	33424.1	34893.6	34258.2	29946.9	29956.6	19951.6
50°	15009.8	14946.8	16498.7	20378.4	25873.1	31406.6	33933.3	34428.0	29942.0	28681.1	18933.2
52.5°	7929.3	8200.8	9330.8	12812.9	18293.0	25703.4	29932.3	30703.4	28884.8	26595.7	17468.6
55°	3370.5	3045.6	3913.7	5785.7	10291.1	17172.8	21959.4	23676.2	24423.1	23535.6	15281.4
57.5°	1202.7	1314.3	1513.1	2177.5	4325.9	9398.7	13094.2	14427.8	16920.6	17269.8	10412.3
60°	771.1	785.7	848.7	999.0	1624.6	3622.7	6212.5	7274.5	8404.5	8676.1	4859.4
62.5°	596.5	601.4	630.5	654.7	771.1	1406.4	2332.7	2764.3	2871.0	2468.5	1275.5
65°	499.5	504.4	514.1	514.1	548.0	659.6	814.7	897.2	872.9	863.2	722.6
67.5°	383.1	392.8	412.2	412.2	431.6	402.5	451.0	480.1	543.2	659.6	615.9
70°	300.7	305.5	320.1	329.8	329.8	291.0	324.9	354.0	397.7	489.8	485.0
72.5°	232.8	242.5	252.2	252.2	237.6	198.8	232.8	257.0	286.1	339.5	329.8
75°	179.4	179.4	184.3	150.3	116.4	101.8	140.6	169.7	213.4	223.1	184.3
77.5°	48.5	53.3	48.5	43.6	48.5	72.7	92.1	106.7	135.8	135.8	121.2
80°	0.0	4.8	14.5	29.1	48.5	67.9	82.4	92.1	106.7	116.4	111.5
82.5°	0.0	4.8	14.5	29.1	43.6	53.3	72.7	77.6	87.3	101.8	101.8
85°	0.0	4.8	9.7	19.4	29.1	33.9	33.9	29.1	29.1	24.2	19.4
87.5°	0.0	0.0	4.8	9.7	9.7	14.5	14.5	14.5	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532153

CATALOG NUMBER: GALN-SA7C-730-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2	9607.2
2.5°	9655.7	9505.4	9277.5	8918.6	8574.3	8351.2	8137.8	7900.2	7769.2	7759.5	7686.8
5°	9772.1	9432.7	8889.5	8273.6	7614.0	7046.6	6474.3	6100.9	5766.3	5582.0	5548.1
7.5°	9835.2	9393.9	8516.1	7483.1	6358.0	5431.7	4791.5	4321.1	4136.8	4001.0	3996.1
10°	9966.1	9326.0	7958.3	6435.5	5043.7	4107.7	3666.4	3453.0	3351.1	3312.3	3254.1
12.5°	10063.1	9199.9	7386.1	5358.9	3986.4	3404.5	3210.5	3162.0	3166.9	3186.2	3162.0
15°	10198.9	9088.3	6615.0	4398.7	3346.3	3065.0	3065.0	3074.7	3142.6	3152.3	3147.5
17.5°	10189.2	8870.1	5819.6	3622.7	2958.3	2919.5	2934.1	3026.2	3069.9	3084.4	3050.5
20°	10305.6	8666.4	5000.0	3094.1	2740.1	2798.3	2895.3	2919.5	2972.9	2982.6	2943.8
22.5°	10271.7	8157.2	4238.6	2677.0	2575.2	2686.7	2783.7	2812.8	2798.3	2769.2	2764.3
25°	10208.6	7720.7	3540.3	2400.6	2453.9	2575.2	2667.3	2614.0	2584.9	2589.7	2594.6
27.5°	10097.1	7167.8	2963.2	2206.6	2289.1	2468.5	2463.6	2444.2	2473.3	2449.1	2473.3
30°	10077.7	6615.0	2487.9	2032.0	2167.8	2298.8	2308.5	2342.4	2376.4	2332.7	2376.4
32.5°	10106.8	6008.8	2148.4	1925.3	2095.1	2099.9	2206.6	2240.6	2216.3	2119.3	2129.0
35°	10329.9	5543.2	1901.1	1867.1	1978.7	1983.5	2085.4	2041.7	1935.0	1876.8	1910.8
37.5°	10800.3	5155.2	1784.7	1813.8	1823.5	1886.5	1891.4	1804.1	1813.8	1808.9	1828.3
40°	11401.6	4859.4	1702.2	1765.3	1755.6	1799.2	1624.6	1673.1	1716.8	1731.3	1741.0
42.5°	11813.9	4646.0	1648.9	1687.7	1668.3	1590.7	1493.7	1542.2	1576.2	1629.5	1639.2
45°	11998.1	4476.3	1585.9	1551.9	1551.9	1411.3	1372.5	1382.2	1459.8	1518.0	1508.3
47.5°	11697.5	4311.4	1474.3	1372.5	1406.4	1290.0	1246.4	1246.4	1328.8	1401.6	1387.0
48°	11581.1	4243.5	1479.2	1333.7	1357.9	1270.6	1227.0	1217.3	1309.4	1377.3	1377.3
50°	11004.0	3991.3	1353.1	1227.0	1178.5	1168.8	1139.7	1149.4	1207.6	1270.6	1270.6
52.5°	9878.8	3448.1	1144.5	1052.4	965.1	1023.3	1037.8	1018.4	1047.5	1105.7	1100.9
55°	8244.5	2647.9	916.6	872.9	805.0	868.1	897.2	872.9	843.8	887.5	887.5
57.5°	5281.3	1425.8	732.3	742.0	674.1	737.2	761.4	703.2	649.9	683.8	679.0
60°	2381.2	853.5	601.4	586.8	543.2	615.9	654.7	586.8	514.1	538.3	562.6
62.5°	892.3	606.2	455.9	446.2	436.5	504.4	523.8	470.4	397.7	412.2	417.1
65°	654.7	533.5	363.7	329.8	349.2	397.7	388.0	334.6	286.1	286.1	295.8
67.5°	557.7	465.6	295.8	257.0	257.0	261.9	242.5	213.4	198.8	208.5	218.2
70°	436.5	368.6	232.8	198.8	179.4	160.0	140.6	135.8	121.2	135.8	130.9
72.5°	281.3	247.3	179.4	150.3	135.8	111.5	92.1	87.3	72.7	67.9	67.9
75°	150.3	150.3	140.6	121.2	106.7	87.3	72.7	58.2	38.8	29.1	29.1
77.5°	106.7	116.4	126.1	116.4	97.0	72.7	58.2	38.8	19.4	9.7	9.7
80°	101.8	116.4	126.1	111.5	97.0	72.7	53.3	29.1	14.5	4.8	4.8
82.5°	92.1	106.7	116.4	101.8	87.3	63.0	48.5	29.1	14.5	4.8	4.8
85°	19.4	24.2	29.1	29.1	33.9	43.6	33.9	24.2	9.7	4.8	4.8
87.5°	14.5	14.5	14.5	14.5	14.5	14.5	9.7	9.7	4.8	4.8	4.8
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)