

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: P531678

Luminaire Tested: **GALN-SA7A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23254 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

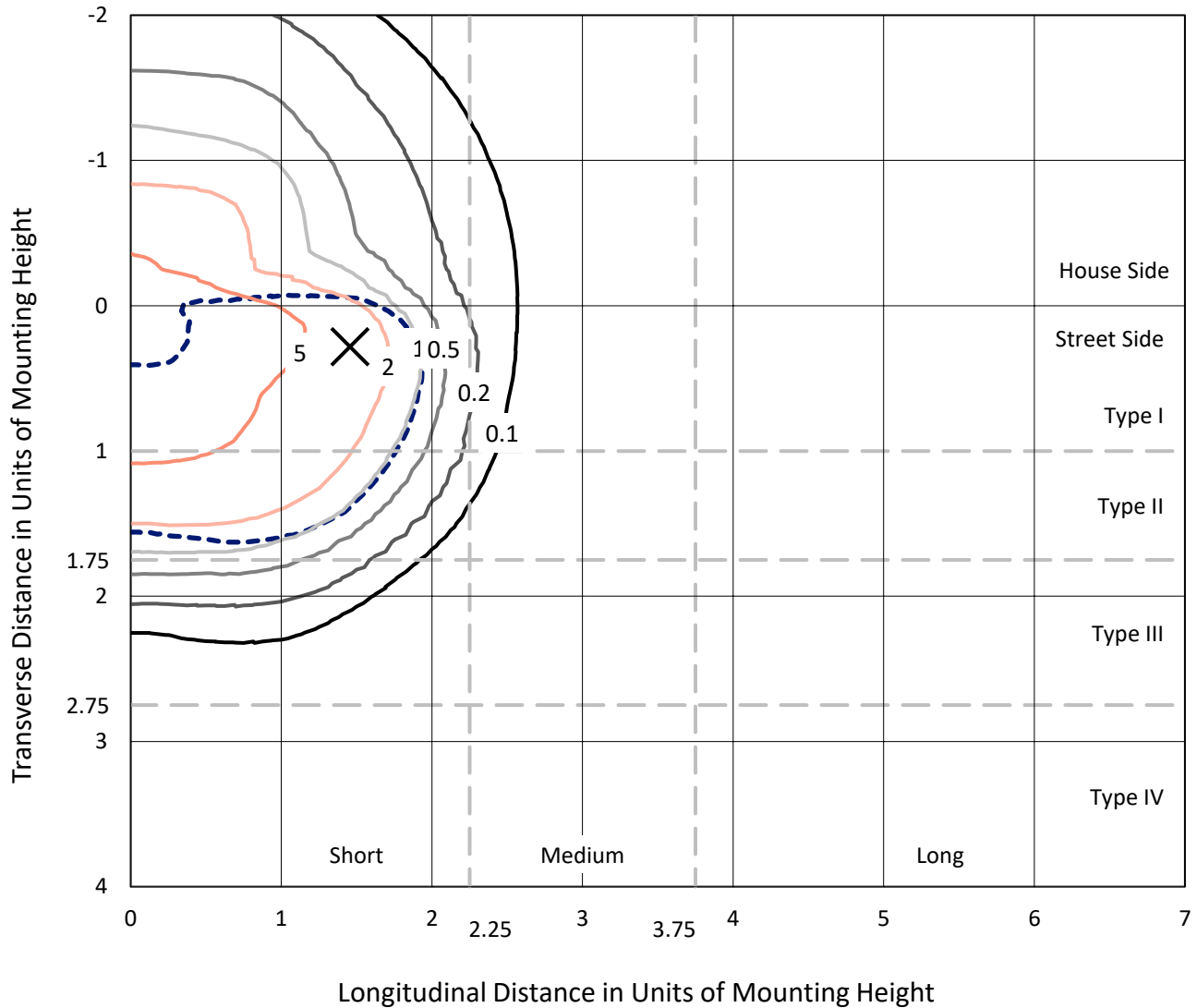
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

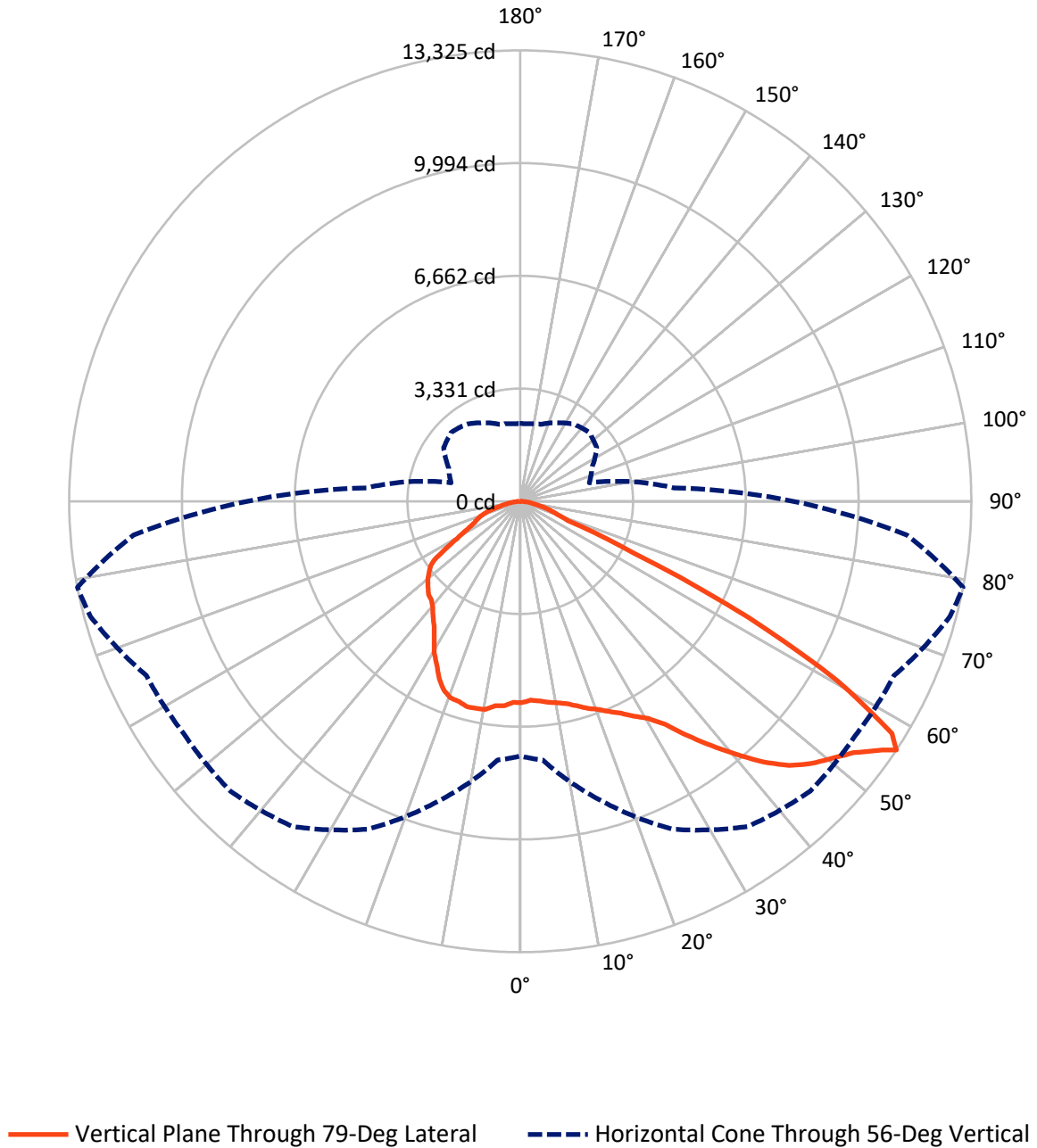
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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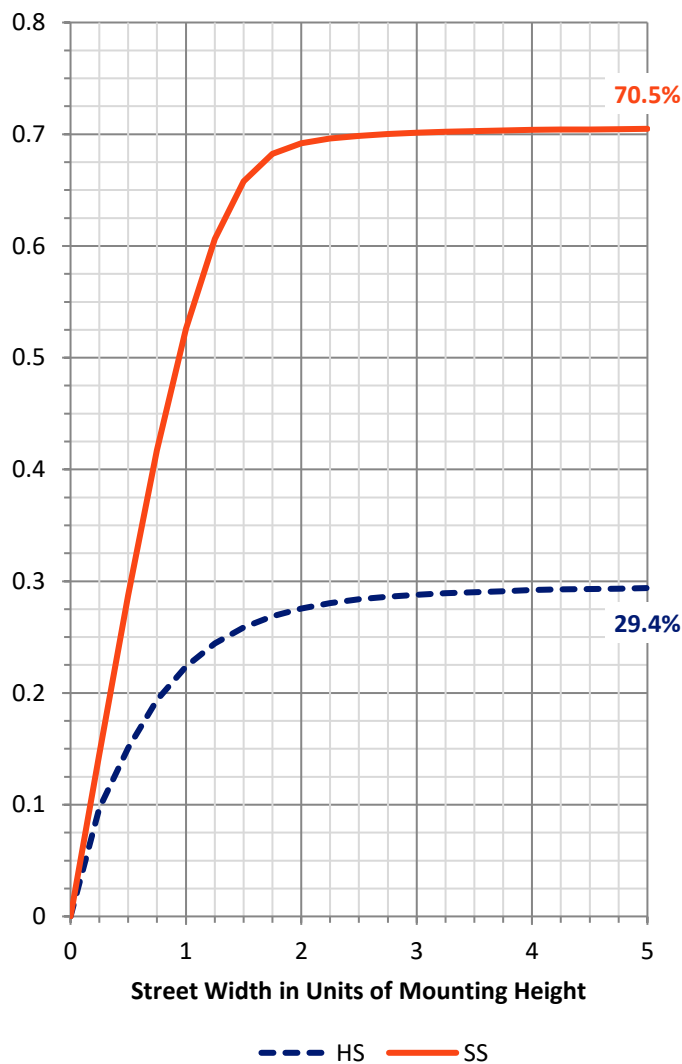
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6867.4	0.0	6867.4
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	16386.6	0.0	16386.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	23254.0	0.0	23254.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.9	2.3
10°-20°	1480.4	6.4
20°-30°	2532.7	10.9
30°-40°	3881.7	16.7
40°-50°	5246.1	22.6
50°-60°	6025.3	25.9
60°-70°	2746.5	11.8
70°-80°	677.2	2.9
80°-90°	123.1	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°	23254.0	100.0
0°-180°	23254.0	100.0

**Coefficient of Utilization**



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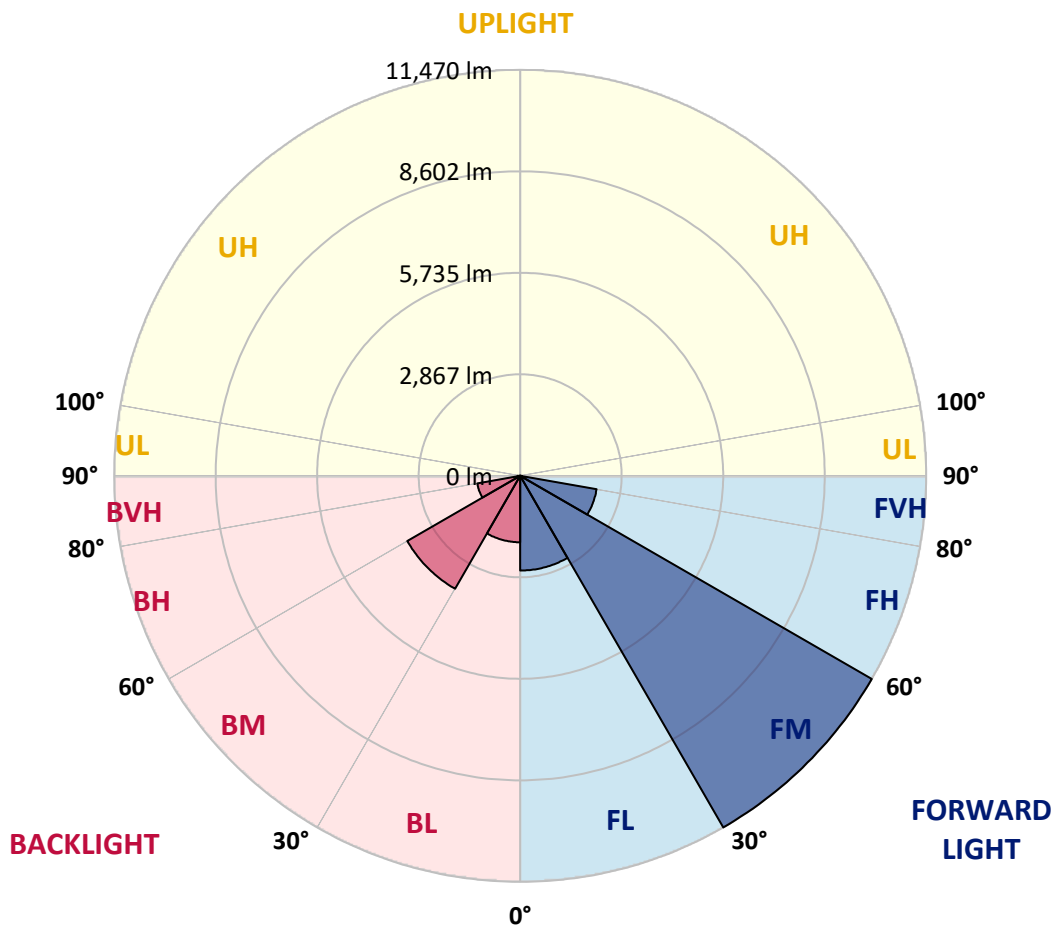
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.6	11.5			
FM (30°-60°)	11469.6	49.3			
FH (60°-80°)	2192.3	9.4			G2/5000
FVH (80°-90°)	49.1	0.2			G1/100
BL (0°-30°)	1878.5	8.1	B3/2500		
BM (30°-60°)	3683.6	15.8	B3/5000		
BH (60°-80°)	1231.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	73.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8
2.5°	5660.1	5645.6	5680.4	5706.5	5738.3	5778.9	5799.2	5810.7	5912.1	5886.1	5964.3
5°	5538.4	5500.8	5526.9	5547.1	5602.2	5651.4	5706.5	5793.4	5886.1	5926.6	6022.2
7.5°	5431.3	5411.0	5405.2	5419.7	5495.0	5558.7	5654.3	5781.8	5932.4	5999.0	6054.1
10°	5254.6	5225.6	5269.1	5364.6	5384.9	5518.2	5628.2	5810.7	5941.1	6057.0	6219.2
12.5°	5176.4	5147.4	5156.1	5211.1	5353.1	5480.5	5610.9	5816.5	6091.7	6138.1	6355.3
15°	5300.9	5272.0	5280.6	5266.2	5402.3	5468.9	5674.6	5932.4	6196.0	6274.2	6505.9
17.5°	5584.8	5587.7	5550.0	5518.2	5486.3	5628.2	5770.2	6001.9	6236.5	6433.5	6607.3
20°	6126.5	6030.9	5955.6	5776.0	5726.7	5787.6	5967.2	6190.2	6401.7	6563.9	6760.8
22.5°	6543.6	6552.3	6445.1	6149.6	6042.5	6068.5	6222.1	6404.6	6636.3	6752.2	6978.1
25°	7149.0	7088.2	6972.3	6737.7	6497.3	6517.5	6630.5	6795.6	6859.3	6940.4	7186.7
27.5°	7702.3	7719.6	7490.8	7270.7	6972.3	6914.4	7117.1	7146.1	7038.9	7192.5	7276.5
30°	8264.2	8249.7	8099.1	7841.3	7548.7	7560.3	7650.1	7508.2	7360.5	7444.5	7502.4
32.5°	8846.5	8681.3	8675.6	8443.8	8220.8	8113.6	8003.5	8073.0	7844.2	7861.6	7806.5
35°	9312.8	9336.0	9202.7	9037.6	8927.6	8739.3	8438.0	8562.6	8519.1	8498.9	8261.3
37.5°	9651.7	9561.9	9628.6	9573.5	9469.2	9234.6	8921.8	9040.5	9060.8	9159.3	8884.1
40°	9929.8	9892.2	10068.9	10097.8	10025.4	9518.5	8956.5	9309.9	9614.1	9828.4	9501.1
42.5°	10063.1	10144.2	10329.6	10552.6	10390.4	9848.7	9136.1	9515.6	10193.4	10532.3	10086.2
45°	10242.7	10138.4	10413.6	10822.0	10824.9	10126.8	9309.9	9793.7	10645.3	11137.7	10486.0
47.5°	10060.2	10112.3	10396.2	10914.7	11047.9	10419.4	9779.2	10187.6	11143.5	11580.9	10856.8
50°	9651.7	9756.0	10274.5	10813.3	11215.9	10729.3	10318.0	10613.4	11604.1	11937.2	10917.6
52.5°	9225.9	9283.9	10094.9	10891.5	11291.3	11129.0	11039.2	11201.5	12166.0	12339.9	10992.9
55°	8067.2	8342.4	9501.1	10856.8	11659.1	11850.3	11780.8	12018.3	12803.3	12977.1	11404.2
56°	7531.4	7676.2	9144.8	10694.5	11731.5	12113.9	12079.1	12186.3	13142.2	13324.7	11468.0
57.5°	6540.7	6552.3	7797.9	9976.2	11459.3	12192.1	12157.4	12241.4	13075.6	12951.0	10908.9
60°	4093.0	4272.6	5306.7	7673.3	9744.4	11311.5	11508.5	10833.6	11024.8	10761.2	8487.3
62.5°	2120.4	2094.3	2780.8	4487.0	6468.3	8099.1	8281.6	8249.7	7954.3	7569.0	5544.2
65°	1057.3	1063.1	1454.1	2221.8	3313.8	4240.7	4750.6	4805.6	4020.6	3699.1	2630.2
67.5°	767.6	796.6	1045.7	1358.5	1561.3	1746.7	2140.6	2100.1	1590.3	1512.1	1402.0
70°	596.7	622.8	848.7	1037.0	941.4	941.4	1025.4	1060.2	1132.6	1164.5	1202.1
72.5°	434.5	454.8	648.9	715.5	617.0	663.3	767.6	848.7	924.0	935.6	979.1
75°	298.4	315.7	425.8	393.9	370.8	457.7	562.0	637.3	692.3	721.3	747.3
77.5°	194.1	199.9	243.3	205.7	237.5	295.5	365.0	428.7	483.7	506.9	512.7
80°	86.9	95.6	104.3	130.4	165.1	211.5	260.7	312.8	347.6	356.3	373.7
82.5°	49.2	49.2	63.7	92.7	121.7	153.5	188.3	225.9	266.5	275.2	272.3
85°	26.1	26.1	37.7	55.0	75.3	89.8	86.9	89.8	95.6	110.1	107.2
87.5°	8.7	8.7	11.6	11.6	14.5	17.4	14.5	20.3	26.1	26.1	26.1
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°	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8	5949.8
2.5°	5941.1	5967.2	5932.4	6007.7	6007.7	5993.2	5920.8	5944.0	5961.4	5961.4	5975.8
5°	6054.1	6045.4	6068.5	5978.7	5923.7	5903.4	5784.7	5726.7	5677.5	5674.6	5631.1
7.5°	6117.8	6094.6	6085.9	6019.3	5776.0	5628.2	5373.3	5225.6	5193.7	5080.8	5124.2
10°	6219.2	6262.6	6219.2	5857.1	5518.2	5179.3	4930.1	4701.3	4611.5	4539.1	4495.6
12.5°	6427.7	6407.5	6155.4	5665.9	5190.8	4788.2	4417.4	4177.0	4087.2	4023.5	4017.7
15°	6604.4	6503.0	6117.8	5364.6	4681.0	4252.3	3948.2	3777.3	3736.7	3742.5	3768.6
17.5°	6665.3	6595.7	5920.8	5051.8	4301.6	3797.5	3655.6	3629.5	3667.2	3710.6	3722.2
20°	6760.8	6650.8	5839.7	4626.0	3832.3	3513.7	3505.0	3597.7	3667.2	3730.9	3739.6
22.5°	6960.7	6682.6	5576.1	4223.4	3510.8	3429.7	3513.7	3591.9	3699.1	3751.2	3704.9
25°	7018.7	6613.1	5205.3	3739.6	3308.0	3377.5	3467.3	3574.5	3649.8	3678.8	3699.1
27.5°	7067.9	6505.9	4704.2	3418.1	3244.3	3374.6	3467.3	3557.1	3597.7	3623.7	3646.9
30°	7206.9	6474.1	4269.7	3203.7	3203.7	3316.7	3435.5	3458.6	3513.7	3545.5	3586.1
32.5°	7276.5	6253.9	3823.6	3067.6	3163.2	3345.7	3354.4	3397.8	3400.7	3426.8	3383.3
35°	7458.9	6097.5	3409.4	2969.1	3180.6	3316.7	3360.1	3334.1	3192.1	3122.6	3137.1
37.5°	7592.2	6019.3	3111.0	2957.5	3183.4	3348.6	3371.7	3174.8	3027.0	2911.2	2940.1
40°	7951.4	5825.2	2885.1	2937.2	3209.5	3383.3	3319.6	3105.2	2838.7	2720.0	2699.7
42.5°	8226.6	5686.2	2743.2	2914.1	3229.8	3432.6	3293.5	2966.2	2693.9	2583.8	2612.8
45°	8545.2	5654.3	2667.8	2919.9	3264.6	3458.6	3261.7	2859.0	2569.4	2525.9	2517.2
47.5°	8658.2	5425.5	2586.7	2870.6	3255.9	3449.9	3154.5	2777.9	2523.0	2528.8	2552.0
50°	8469.9	5190.8	2525.9	2769.2	3197.9	3371.7	2986.5	2670.7	2496.9	2569.4	2609.9
52.5°	8229.5	4950.4	2401.3	2633.1	3079.2	3250.1	2908.3	2664.9	2470.9	2447.7	2456.4
55°	8301.9	4753.4	2227.5	2447.7	2888.0	3024.1	2821.4	2609.9	2407.1	2320.2	2349.2
56°	8067.2	4550.7	2114.6	2331.8	2757.6	2879.3	2777.9	2560.7	2355.0	2297.1	2297.1
57.5°	7403.9	3870.0	1966.8	2146.4	2482.5	2627.3	2693.9	2531.7	2297.1	2195.7	2198.6
60°	5460.2	2751.8	1764.1	1891.5	2056.6	2172.5	2482.5	2450.6	2152.2	2082.7	2056.6
62.5°	3365.9	2010.3	1619.2	1668.5	1752.5	1848.1	2166.7	2218.9	1998.7	1923.4	1906.0
65°	1885.7	1538.1	1509.2	1529.4	1570.0	1619.2	1798.8	1914.7	1764.1	1648.2	1642.4
67.5°	1378.8	1375.9	1399.1	1416.5	1433.9	1433.9	1477.3	1523.7	1503.4	1410.7	1402.0
70°	1225.3	1234.0	1251.4	1254.3	1260.1	1239.8	1205.0	1190.5	1213.7	1155.8	1144.2
72.5°	1010.9	1039.9	1060.2	1063.1	1031.2	1005.1	958.8	909.6	892.2	880.6	877.7
75°	776.3	796.6	805.3	802.4	790.8	753.1	698.1	648.9	617.0	582.2	599.6
77.5°	524.3	553.3	567.7	567.7	550.4	492.4	466.4	428.7	396.8	359.2	365.0
80°	367.9	388.2	411.3	408.4	379.5	350.5	312.8	278.1	252.0	223.0	220.1
82.5°	275.2	286.8	298.4	292.6	272.3	243.3	217.3	185.4	156.4	136.1	136.1
85°	98.5	107.2	130.4	136.1	147.7	147.7	124.6	104.3	84.0	69.5	69.5
87.5°	29.0	29.0	31.9	31.9	29.0	31.9	26.1	29.0	31.9	20.3	20.3
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)