

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: P652635

Luminaire Tested: **GALN-SA9B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652635  
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-SA9B-840-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA 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: 37871.1 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

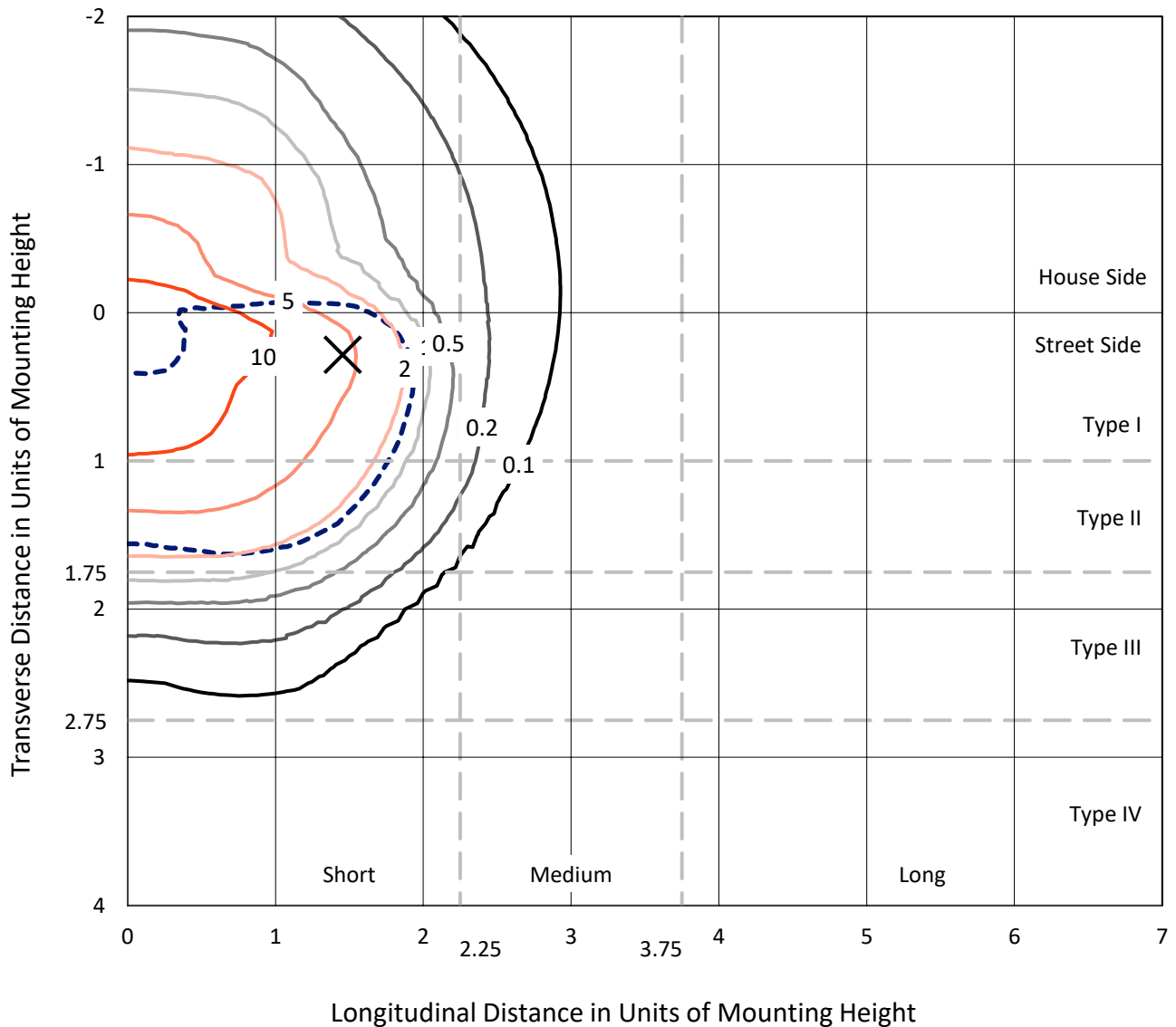
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

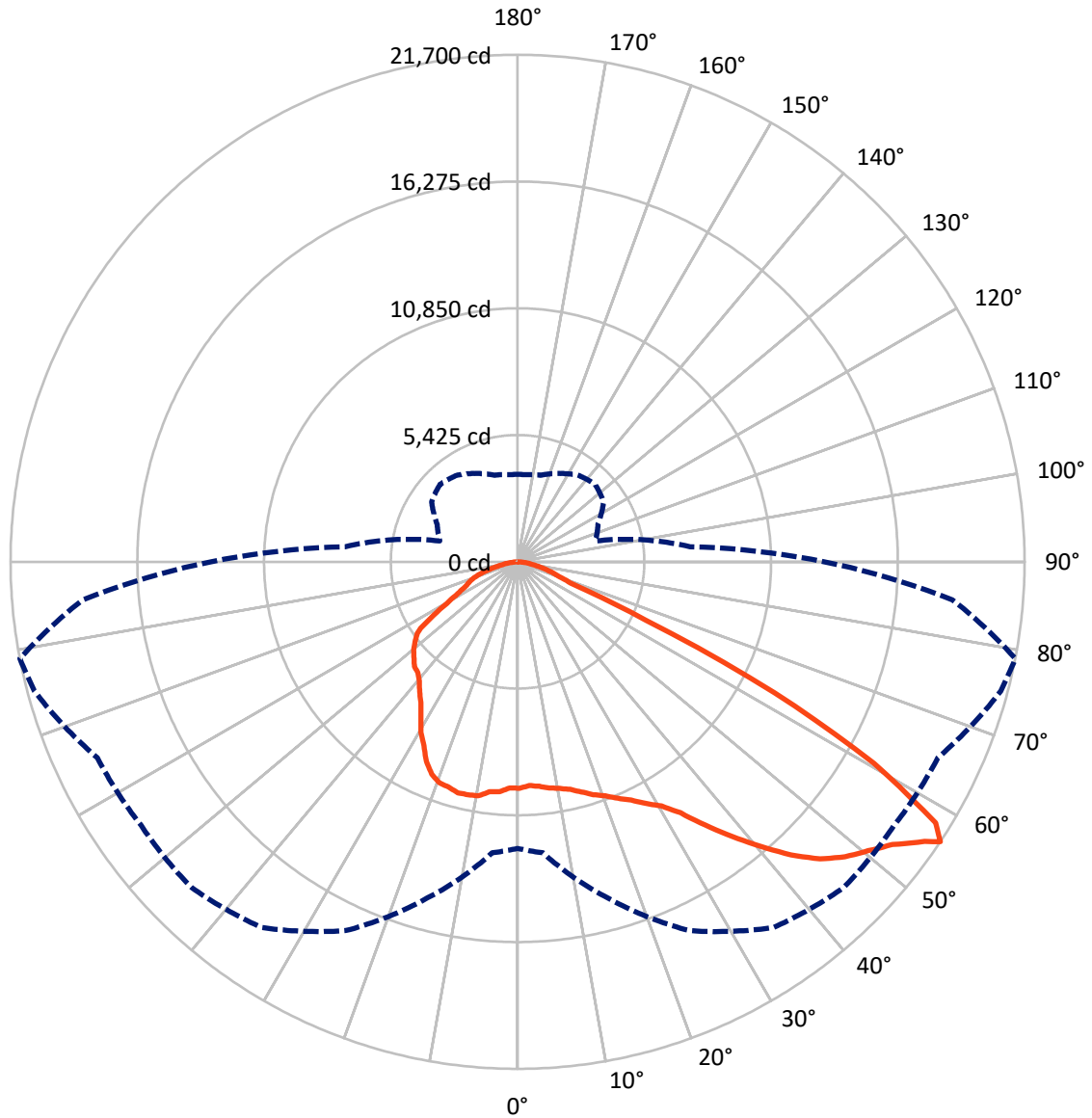
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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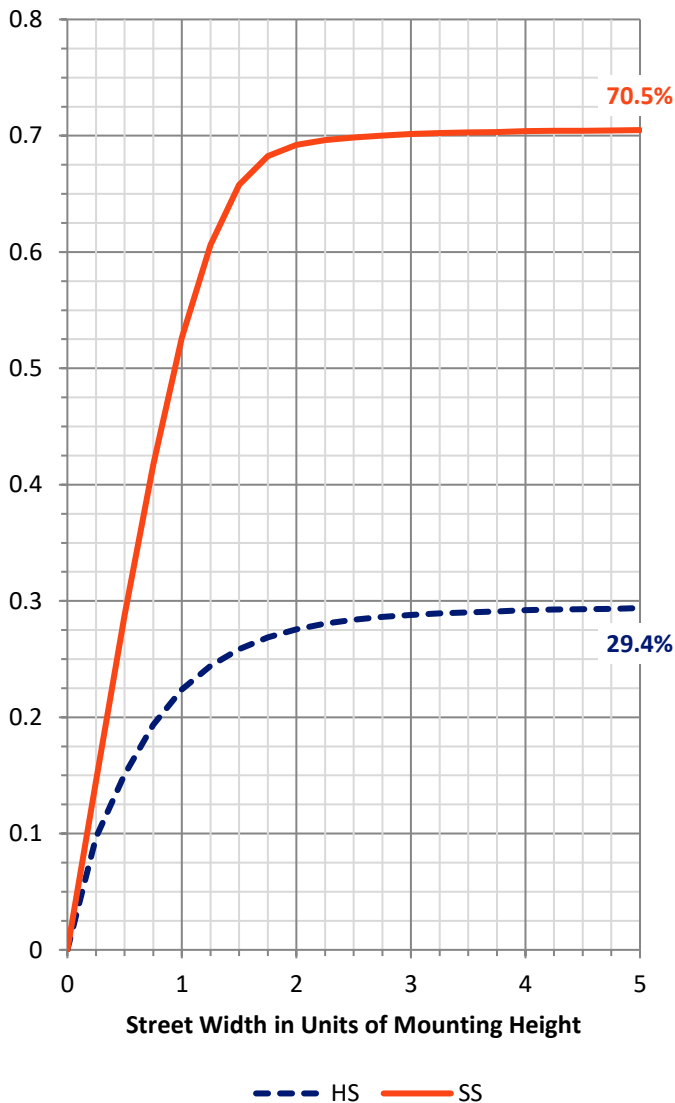
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11184.1	0.0	11184.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	26686.9	0.0	26686.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	37871.1	0.0	37871.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	881.0	2.3
10°-20°	2411.0	6.4
20°-30°	4124.7	10.9
30°-40°	6321.7	16.7
40°-50°	8543.7	22.6
50°-60°	9812.8	25.9
60°-70°	4473.0	11.8
70°-80°	1102.8	2.9
80°-90°	200.4	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°	37871.1	100.0
0°-180°	37871.1	100.0



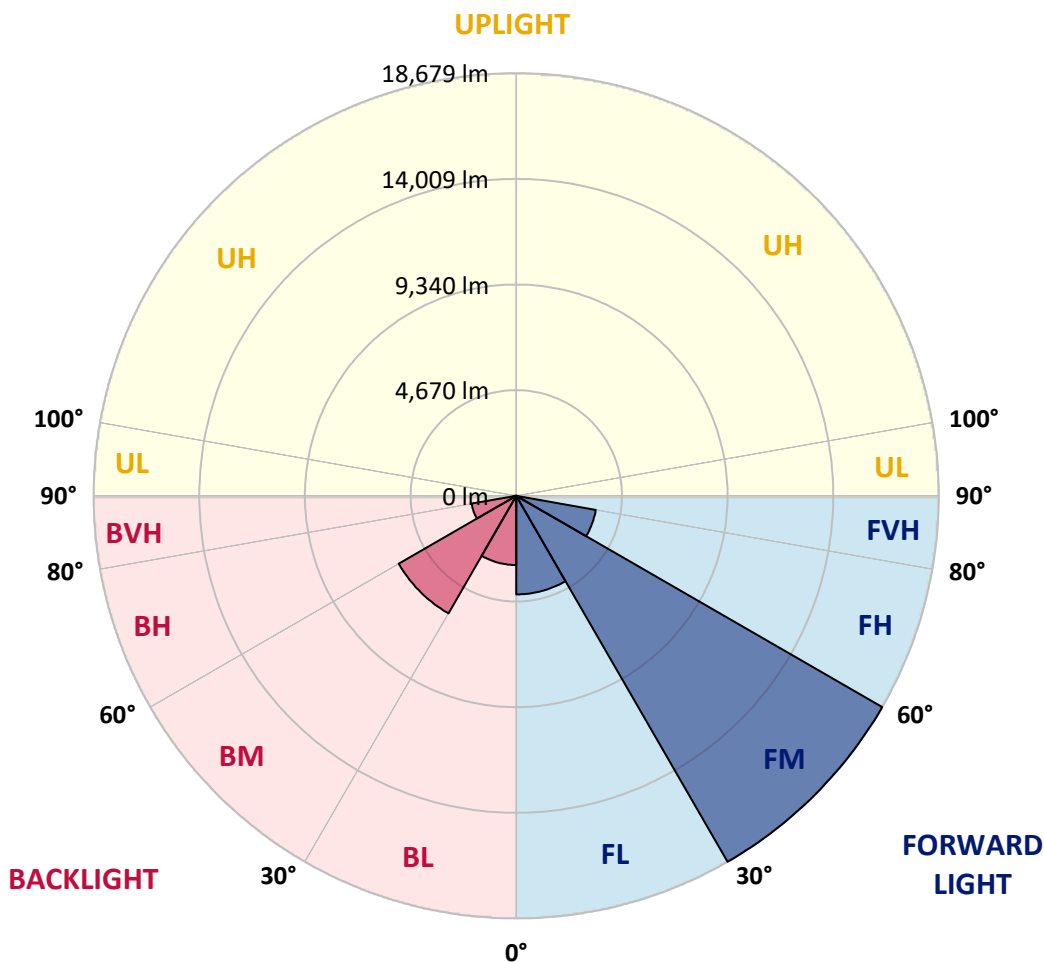
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4357.4	11.5			
FM (30°-60°)	18679.1	49.3			
FH (60°-80°)	3570.4	9.4			G2/5000
FVH (80°-90°)	80.0	0.2			G1/100
BL (0°-30°)	3059.3	8.1	B4/5000		
BM (30°-60°)	5999.0	15.8	B4/8500		
BH (60°-80°)	2005.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	120.4	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7
2.5°	9217.9	9194.4	9251.0	9293.5	9345.4	9411.4	9444.4	9463.3	9628.4	9585.9	9713.3
5°	9019.8	8958.5	9001.0	9033.9	9123.6	9203.8	9293.5	9434.9	9585.9	9652.0	9807.7
7.5°	8845.3	8812.3	8802.8	8826.4	8949.1	9052.9	9208.5	9416.1	9661.4	9769.9	9859.5
10°	8557.5	8510.3	8581.1	8736.8	8769.8	8986.8	9166.1	9463.3	9675.5	9864.3	10128.4
12.5°	8430.1	8383.0	8397.1	8486.8	8717.9	8925.4	9137.8	9472.7	9920.9	9996.4	10350.2
15°	8633.0	8585.9	8600.0	8576.3	8798.1	8906.6	9241.6	9661.4	10090.7	10218.1	10595.4
17.5°	9095.3	9100.0	9038.7	8986.8	8935.0	9166.1	9397.2	9774.6	10156.8	10477.5	10760.6
20°	9977.5	9821.8	9699.2	9406.7	9326.4	9425.5	9718.0	10081.2	10425.6	10689.8	11010.6
22.5°	10656.8	10670.9	10496.4	10015.2	9840.6	9883.1	10133.1	10430.3	10807.8	10996.4	11364.4
25°	11642.7	11543.7	11355.0	10972.9	10581.3	10614.3	10798.4	11067.2	11171.0	11303.1	11704.1
27.5°	12543.8	12572.1	12199.4	11840.9	11355.0	11260.7	11590.8	11638.0	11463.5	11713.5	11850.3
30°	13458.9	13435.4	13190.1	12770.2	12293.7	12312.7	12458.9	12227.7	11987.1	12123.9	12218.3
32.5°	14407.2	14138.3	14128.9	13751.4	13388.2	13213.7	13034.4	13147.6	12775.0	12803.2	12713.6
35°	15166.7	15204.4	14987.5	14718.5	14539.3	14232.7	13742.0	13944.9	13874.1	13841.1	13454.2
37.5°	15718.6	15572.4	15680.9	15591.3	15421.4	15039.4	14529.9	14723.2	14756.3	14916.6	14468.5
40°	16171.5	16110.2	16398.0	16445.2	16327.2	15501.6	14586.5	15162.0	15657.3	16006.4	15473.3
42.5°	16388.6	16520.6	16822.5	17185.8	16921.6	16039.5	14879.0	15496.9	16600.8	17152.8	16426.2
45°	16681.0	16511.2	16959.4	17624.5	17629.2	16492.3	15162.0	15949.8	17336.7	18138.7	17077.3
47.5°	16383.8	16468.7	16931.0	17775.5	17992.4	16968.8	15926.2	16591.4	18148.2	18860.5	17681.1
50°	15718.6	15888.5	16732.9	17610.4	18266.1	17473.5	16803.7	17284.8	18898.2	19440.7	17780.2
52.5°	15025.1	15119.5	16440.5	17737.7	18388.7	18124.6	17978.3	18242.5	19813.5	20096.5	17902.9
55°	13138.2	13586.4	15473.3	17681.1	18987.8	19299.2	19186.0	19572.8	20851.2	21134.3	18572.7
56°	12265.5	12501.3	14893.1	17416.9	19105.8	19728.5	19671.9	19846.4	21403.2	21700.4	18676.5
57.5°	10652.1	10670.9	12699.4	16247.0	18662.4	19855.8	19799.2	19936.1	21294.7	21091.9	17766.0
60°	6665.8	6958.3	8642.5	12496.6	15869.6	18421.8	18742.5	17643.4	17954.8	17525.4	13822.3
62.5°	3453.2	3410.8	4528.8	7307.4	10534.1	13190.1	13487.3	13435.4	12954.2	12326.8	9029.2
65°	1721.9	1731.3	2368.2	3618.3	5396.8	6906.4	7736.7	7826.3	6547.9	6024.3	4283.5
67.5°	1250.1	1297.3	1703.0	2212.5	2542.8	2844.7	3486.2	3420.2	2589.9	2462.5	2283.2
70°	971.8	1014.2	1382.2	1688.9	1533.1	1533.1	1670.0	1726.6	1844.6	1896.5	1957.8
72.5°	707.6	740.7	1056.7	1165.2	1004.8	1080.3	1250.1	1382.2	1504.9	1523.7	1594.5
75°	485.9	514.2	693.5	641.6	603.8	745.4	915.2	1037.9	1127.4	1174.6	1217.1
77.5°	316.0	325.5	396.3	335.0	386.9	481.2	594.4	698.2	787.8	825.5	835.0
80°	141.5	155.7	169.8	212.3	268.9	344.4	424.5	509.5	566.1	580.3	608.5
82.5°	80.2	80.2	103.8	151.0	198.1	250.0	306.6	367.9	434.0	448.2	443.5
85°	42.5	42.5	61.3	89.7	122.6	146.2	141.5	146.2	155.7	179.3	174.5
87.5°	14.1	14.1	18.8	18.8	23.5	28.3	23.5	33.1	42.5	42.5	42.5
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°	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7	9689.7
2.5°	9675.5	9718.0	9661.4	9784.0	9784.0	9760.5	9642.6	9680.2	9708.6	9708.6	9732.1
5°	9859.5	9845.4	9883.1	9736.8	9647.3	9614.2	9420.8	9326.4	9246.3	9241.6	9170.8
7.5°	9963.3	9925.6	9911.4	9802.9	9406.7	9166.1	8750.9	8510.3	8458.4	8274.4	8345.2
10°	10128.4	10199.2	10128.4	9538.7	8986.8	8434.9	8029.2	7656.5	7510.2	7392.3	7321.5
12.5°	10468.1	10435.0	10024.6	9227.4	8453.7	7798.0	7194.2	6802.6	6656.3	6552.6	6543.1
15°	10755.9	10590.7	9963.3	8736.8	7623.4	6925.3	6429.9	6151.6	6085.6	6095.0	6137.4
17.5°	10855.0	10741.7	9642.6	8227.3	7005.4	6184.6	5953.4	5911.0	5972.4	6043.1	6061.9
20°	11010.6	10831.3	9510.4	7533.8	6241.2	5722.3	5708.1	5859.1	5972.4	6076.1	6090.3
22.5°	11336.1	10883.2	9081.1	6878.1	5717.6	5585.5	5722.3	5849.7	6024.3	6109.1	6033.7
25°	11430.5	10770.0	8477.3	6090.3	5387.4	5500.6	5646.8	5821.4	5944.0	5991.2	6024.3
27.5°	11510.7	10595.4	7661.2	5566.7	5283.6	5495.9	5646.8	5793.1	5859.1	5901.5	5939.3
30°	11737.1	10543.5	6953.6	5217.6	5217.6	5401.5	5594.9	5632.7	5722.3	5774.2	5840.2
32.5°	11850.3	10185.0	6227.1	4995.8	5151.5	5448.7	5462.9	5533.6	5538.3	5580.8	5510.0
35°	12147.5	9930.3	5552.5	4835.4	5179.8	5401.5	5472.3	5429.8	5198.6	5085.4	5109.0
37.5°	12364.6	9802.9	5066.6	4816.6	5184.5	5453.4	5491.1	5170.4	4929.8	4741.1	4788.2
40°	12949.5	9486.8	4698.6	4783.5	5227.0	5510.0	5406.2	5057.1	4623.1	4429.7	4396.7
42.5°	13397.6	9260.4	4467.5	4745.8	5260.0	5590.2	5363.8	4830.7	4387.2	4208.0	4255.2
45°	13916.5	9208.5	4344.8	4755.2	5316.6	5632.7	5311.9	4656.1	4184.4	4113.7	4099.5
47.5°	14100.5	8835.9	4212.7	4675.0	5302.4	5618.6	5137.3	4524.1	4109.0	4118.4	4156.1
50°	13793.9	8453.7	4113.7	4509.9	5208.1	5491.1	4863.8	4349.5	4066.5	4184.4	4250.4
52.5°	13402.3	8062.2	3910.8	4288.2	5014.7	5293.0	4736.3	4340.1	4024.0	3986.3	4000.4
55°	13520.3	7741.4	3627.7	3986.3	4703.3	4925.1	4594.8	4250.4	3920.2	3778.7	3825.9
56°	13138.2	7411.1	3443.7	3797.5	4491.0	4689.2	4524.1	4170.3	3835.3	3740.9	3740.9
57.5°	12057.9	6302.5	3203.2	3495.6	4042.9	4278.8	4387.2	4123.1	3740.9	3575.8	3580.6
60°	8892.5	4481.6	2872.9	3080.5	3349.5	3538.1	4042.9	3991.0	3505.1	3391.8	3349.5
62.5°	5481.7	3273.9	2637.0	2717.3	2854.1	3009.8	3528.7	3613.6	3255.1	3132.4	3104.1
65°	3071.1	2505.0	2457.8	2490.8	2556.9	2637.0	2929.5	3118.3	2872.9	2684.2	2674.8
67.5°	2245.6	2240.8	2278.5	2306.9	2335.1	2335.1	2405.9	2481.4	2448.4	2297.4	2283.2
70°	1995.5	2009.7	2037.9	2042.7	2052.1	2019.1	1962.5	1938.9	1976.6	1882.2	1863.4
72.5°	1646.4	1693.6	1726.6	1731.3	1679.4	1637.0	1561.5	1481.3	1453.0	1434.1	1429.4
75°	1264.3	1297.3	1311.5	1306.7	1287.9	1226.5	1136.9	1056.7	1004.8	948.2	976.5
77.5°	853.9	901.0	924.6	924.6	896.3	802.0	759.5	698.2	646.3	585.0	594.4
80°	599.1	632.2	669.9	665.1	618.0	570.8	509.5	452.9	410.4	363.2	358.5
82.5°	448.2	467.0	485.9	476.4	443.5	396.3	353.8	301.9	254.7	221.7	221.7
85°	160.4	174.5	212.3	221.7	240.6	240.6	202.8	169.8	136.8	113.2	113.2
87.5°	47.2	47.2	51.9	51.9	47.2	51.9	42.5	47.2	51.9	33.1	33.1
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)