

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: P459227

Luminaire Tested: **GALN-SA7A-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29841 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

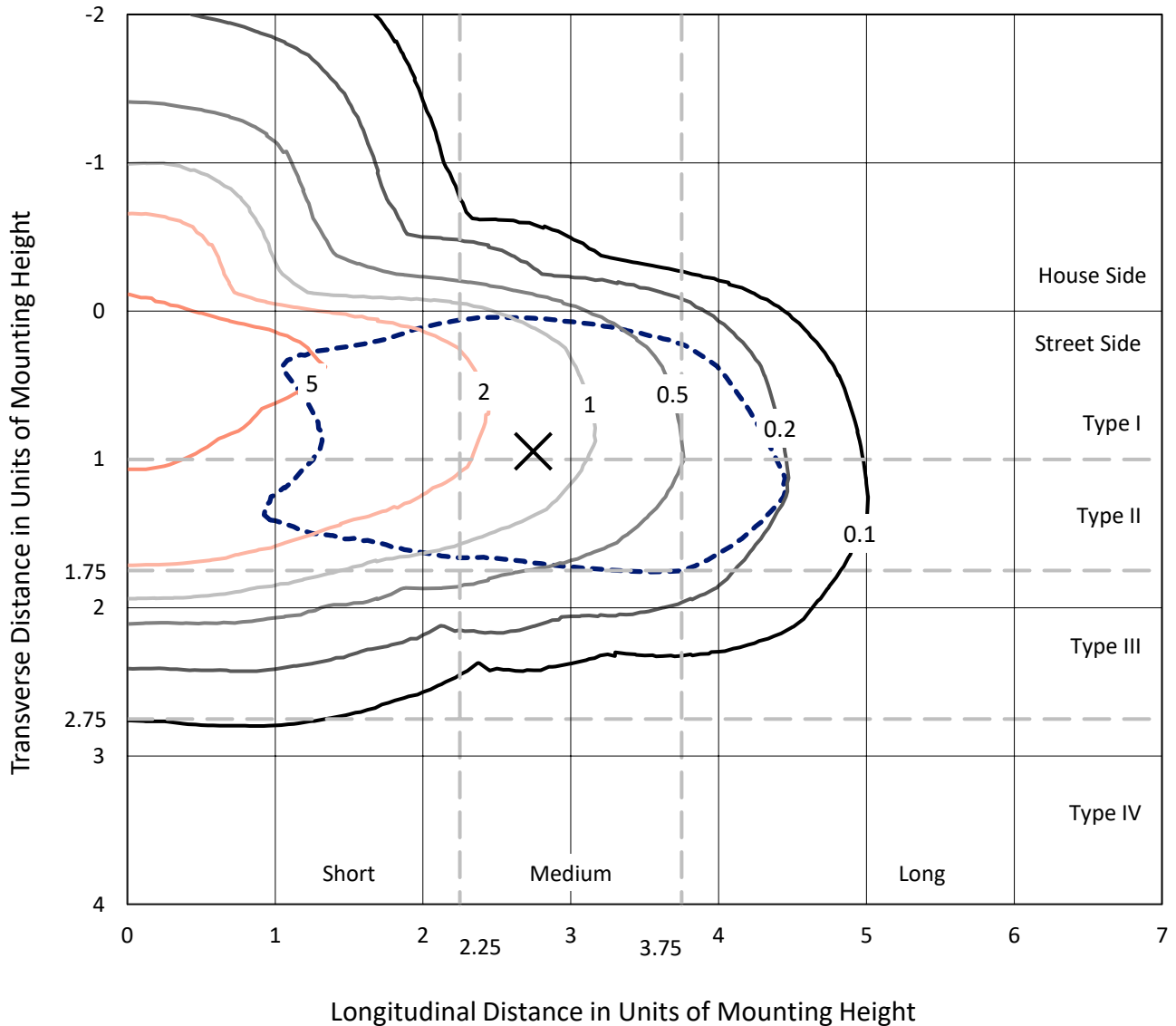
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459227  
 CATALOG NUMBER: GALN-SA7A-735-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

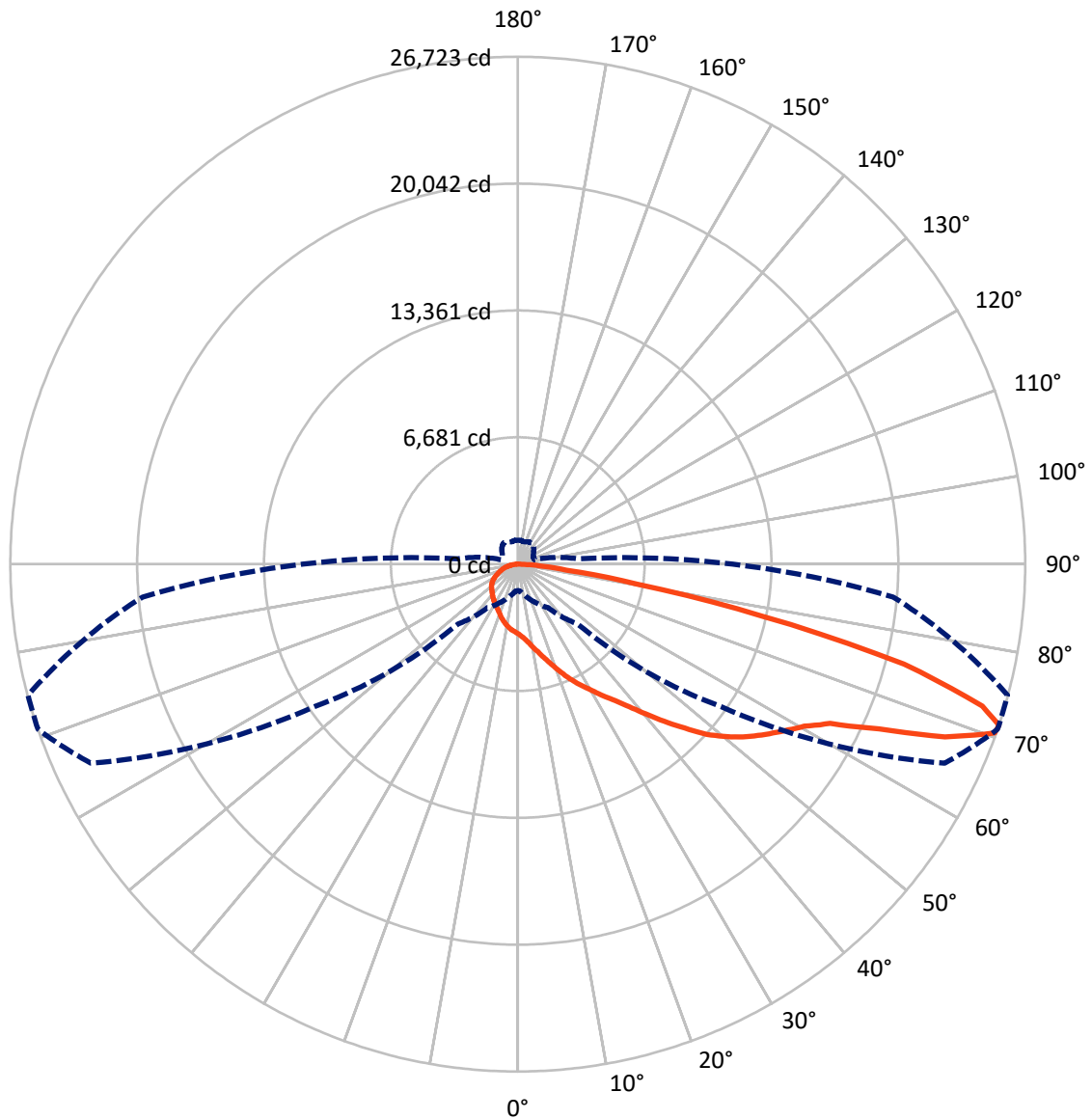
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P459227  
CATALOG NUMBER: GALN-SA7A-735-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P459227

CATALOG NUMBER: GALN-SA7A-735-U-T2

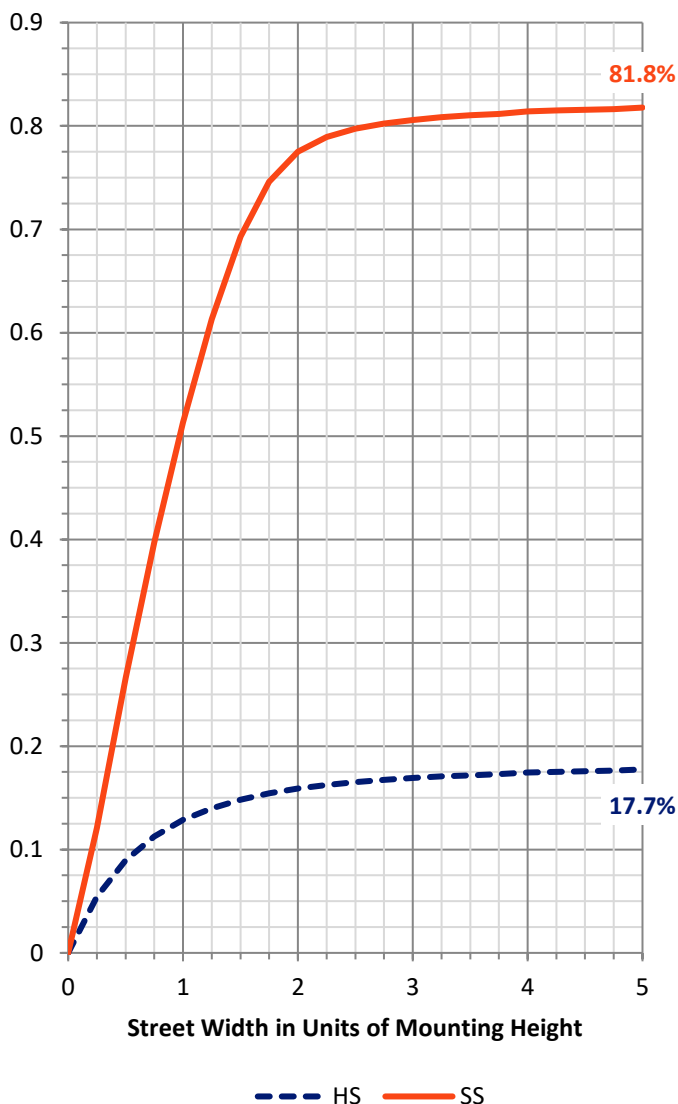
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5366.8	0.0	5366.8
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	24474.2	0.0	24474.2
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	29841.0	0.0	29841.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.7	1.2
10°-20°	1194.7	4.0
20°-30°	2087.9	7.0
30°-40°	3105.4	10.4
40°-50°	4575.5	15.3
50°-60°	6405.7	21.5
60°-70°	7164.6	24.0
70°-80°	4376.4	14.7
80°-90°	563.0	1.9
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°	29841.0	100.0
0°-180°	29841.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459227

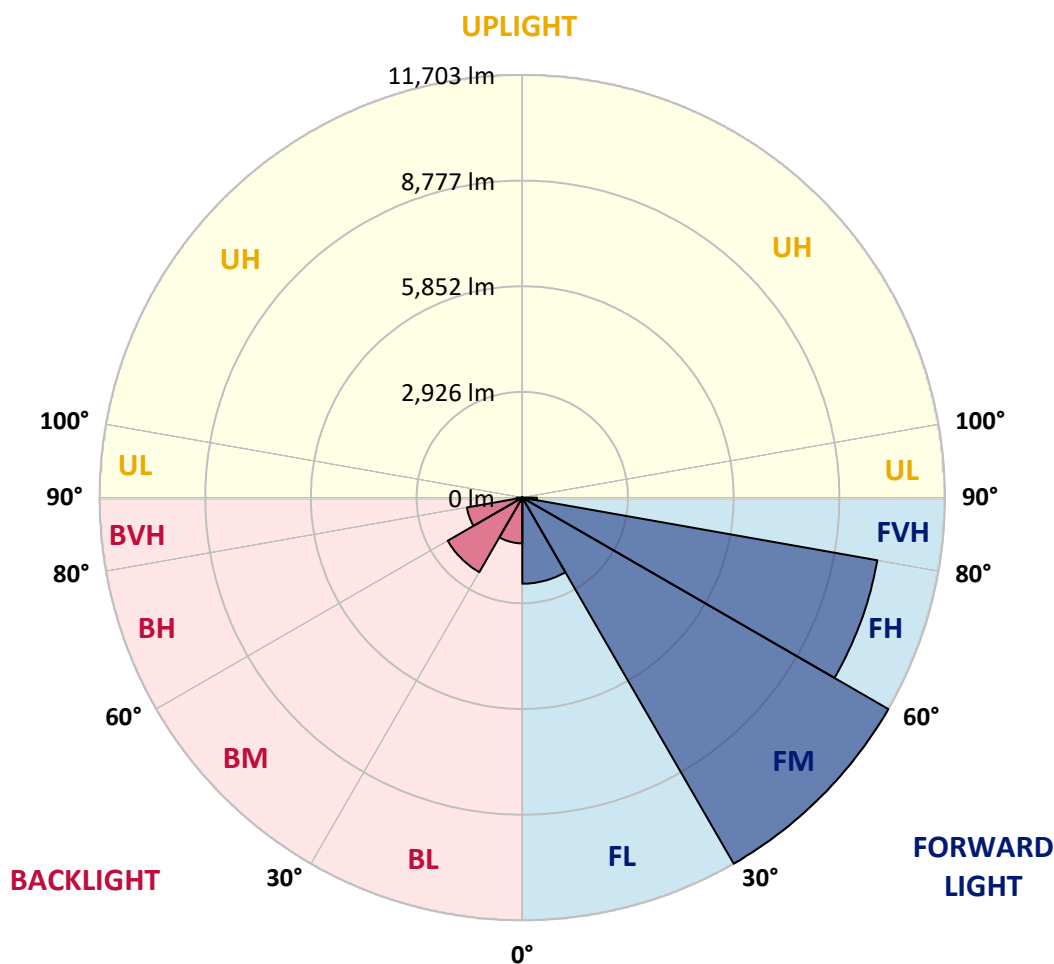
CATALOG NUMBER: GALN-SA7A-735-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2384.3	8.0			
FM (30°-60°)	11703.0	39.2			
FH (60°-80°)	9981.7	33.4			G4/12000
FVH (80°-90°)	405.1	1.4			G3/500
BL (0°-30°)	1266.0	4.2	B3/2500		
BM (30°-60°)	2383.6	8.0	B2/2500		
BH (60°-80°)	1559.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	157.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





REPORT NUMBER: P459227

CATALOG NUMBER: GALN-SA7A-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4
2.5°	4065.9	4046.2	4047.8	4019.9	3983.9	3944.5	3888.7	3839.5	3800.2	3777.2	3710.0
5°	4505.4	4485.7	4461.1	4400.4	4374.2	4277.4	4154.4	4042.9	3957.6	3910.1	3775.6
7.5°	4861.3	4856.4	4849.8	4815.4	4748.2	4613.7	4508.7	4315.2	4188.9	4098.7	3869.0
10°	5081.1	5089.3	5094.2	5100.8	5072.9	5002.4	4858.0	4613.7	4452.9	4338.1	3990.4
12.5°	5192.6	5200.8	5228.7	5289.4	5327.1	5318.9	5200.8	4961.4	4740.0	4589.1	4120.0
15°	5261.5	5274.6	5323.8	5404.2	5530.5	5610.9	5553.5	5332.0	5089.3	4910.5	4274.2
17.5°	5337.0	5351.7	5405.8	5520.7	5686.3	5860.2	5922.5	5732.2	5468.2	5255.0	4446.4
20°	5379.6	5399.3	5476.4	5627.3	5820.8	6073.4	6280.0	6180.0	5891.3	5655.1	4644.8
22.5°	5448.5	5464.9	5530.5	5691.2	5922.5	6239.0	6637.6	6616.3	6362.0	6057.0	4863.0
25°	5635.5	5661.7	5694.5	5791.3	6014.3	6408.0	6934.4	7082.1	6818.0	6476.8	5063.1
27.5°	5988.1	6009.4	6007.8	6020.9	6147.2	6553.9	7191.9	7542.9	7270.7	6901.6	5256.6
30°	6389.9	6398.1	6404.7	6375.2	6403.0	6703.2	7428.1	7998.9	7726.6	7337.9	5425.5
32.5°	6878.7	6895.1	6839.3	6763.9	6740.9	6924.6	7623.3	8454.8	8266.2	7780.7	5592.8
35°	7456.0	7498.6	7385.5	7252.6	7159.1	7242.8	7885.7	8920.6	8818.9	8346.6	5814.2
37.5°	8115.3	8167.8	8062.8	7802.1	7669.2	7692.2	8228.5	9496.3	9517.6	8991.2	6143.9
40°	8654.9	8723.8	8727.1	8358.1	8156.3	8182.6	8663.1	10116.3	10360.7	9788.3	6532.6
42.5°	9010.8	9078.1	9148.6	8932.1	8720.5	8869.8	9169.9	10788.7	11308.6	10755.9	7075.5
45°	9401.2	9461.9	9501.2	9402.8	9284.7	9671.8	9781.7	11503.8	12319.0	11836.8	7669.2
47.5°	9853.9	9921.1	9958.8	9865.3	9821.1	10375.4	10441.0	12171.4	13398.2	12886.4	8325.3
50°	10457.4	10508.3	10488.6	10429.5	10419.7	10915.0	11074.1	12796.2	14288.7	14016.5	9005.9
52.5°	11208.6	11269.3	11290.6	11207.0	11169.2	11300.4	11584.2	13365.4	15099.0	14987.4	9732.5
55°	11662.9	11759.7	12084.4	12215.6	12305.8	11799.0	12133.6	13993.5	15825.5	16010.9	10513.2
57.5°	11080.7	11205.3	11931.9	12587.9	13435.9	13045.5	12912.7	14649.6	16552.1	17003.2	11448.1
60°	9660.3	9688.2	10624.7	11833.5	13539.2	14647.9	14538.0	15692.7	17339.4	18003.6	12679.8
62.5°	6701.5	6760.6	7867.7	9796.5	12263.2	15225.3	17303.3	17493.5	18467.8	19501.1	14485.6
65°	3455.7	3378.7	4387.3	6157.0	9245.4	13854.1	19543.7	20805.0	20914.8	21843.2	17027.8
67.5°	2127.2	2161.7	2634.0	3595.1	5466.5	10068.7	19309.2	24851.1	24272.2	24718.3	19387.9
70°	1597.5	1640.1	1964.9	2460.2	3332.7	5756.8	15528.7	25831.9	26640.5	26525.7	20106.3
71°	1389.2	1433.5	1771.3	2238.8	2799.7	4443.1	13083.3	24805.2	26722.5	26702.8	19835.6
72.5°	1184.2	1212.1	1476.1	1896.0	2360.1	3114.6	9829.3	22246.6	25582.6	26237.0	18869.6
75°	929.9	951.3	1069.4	1446.6	1858.3	1912.4	5274.6	16678.4	21011.6	22258.1	15709.1
77.5°	757.7	772.5	833.2	1074.3	1433.5	1354.7	2766.9	10856.0	13163.6	14418.3	9253.6
80°	601.9	618.3	654.4	728.2	1074.3	966.0	1320.3	5501.0	6358.8	6345.6	3693.6
82.5°	467.4	472.4	515.0	534.7	734.8	685.6	715.1	2329.0	2579.9	2665.2	1333.4
85°	295.2	310.0	456.0	410.0	439.6	401.8	352.6	925.0	1139.9	1123.5	533.0
87.5°	90.2	95.1	154.2	173.9	195.2	175.5	129.6	272.3	332.9	360.8	132.8
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: P459227  
 CATALOG NUMBER: GALN-SA7A-735-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4	3662.4
2.5°	3683.7	3665.7	3601.7	3549.2	3500.0	3445.9	3400.0	3386.9	3375.4	3370.5	3368.8
5°	3718.2	3664.0	3537.7	3434.4	3352.4	3277.0	3229.4	3208.1	3186.8	3186.8	3193.3
7.5°	3767.4	3669.0	3473.8	3319.6	3216.3	3145.8	3111.3	3108.0	3113.0	3117.9	3119.5
10°	3821.5	3665.7	3380.3	3188.4	3096.6	3063.7	3065.4	3093.3	3119.5	3139.2	3142.5
12.5°	3874.0	3646.0	3270.4	3065.4	3006.3	3012.9	3058.8	3121.2	3172.0	3199.9	3201.5
15°	3933.0	3614.8	3137.6	2948.9	2929.3	2980.1	3065.4	3160.5	3237.6	3283.5	3288.4
17.5°	3982.2	3562.3	2998.1	2835.8	2860.4	2953.9	3071.9	3195.0	3288.4	3345.9	3355.7
20°	4038.0	3495.1	2853.8	2727.5	2798.0	2924.3	3058.8	3191.7	3288.4	3344.2	3357.3
22.5°	4082.3	3400.0	2716.0	2639.0	2742.3	2888.3	3014.5	3121.2	3199.9	3229.4	3249.1
25°	4100.3	3280.2	2586.5	2566.8	2698.0	2829.2	2914.5	2975.2	2999.8	2996.5	3004.7
27.5°	4090.5	3142.5	2474.9	2509.4	2642.2	2737.4	2780.0	2775.1	2730.8	2689.8	2709.5
30°	4049.5	2978.5	2381.5	2450.3	2570.1	2622.6	2616.0	2552.0	2468.4	2391.3	2396.2
32.5°	3975.7	2801.3	2294.5	2383.1	2468.4	2491.3	2447.1	2363.4	2243.7	2143.6	2128.9
35°	3913.3	2632.4	2217.4	2306.0	2366.7	2355.2	2312.6	2204.3	2096.1	2007.5	1992.7
37.5°	3903.5	2488.1	2143.6	2219.1	2253.5	2237.1	2184.6	2092.8	2053.4	1986.2	1978.0
40°	3956.0	2386.4	2068.2	2127.2	2143.6	2130.5	2073.1	2020.6	2056.7	2040.3	2040.3
42.5°	4098.7	2332.3	2000.9	2035.4	2048.5	2058.4	2017.4	1973.1	2017.4	1941.9	1917.3
45°	4325.0	2333.9	1940.3	1945.2	1984.5	2019.0	1991.1	1925.5	1902.5	1751.7	1722.1
47.5°	4657.9	2389.7	1891.1	1859.9	1930.4	1987.8	1948.5	1853.3	1751.7	1651.6	1633.6
50°	5046.7	2489.7	1846.8	1771.3	1858.3	1948.5	1918.9	1807.4	1702.4	1641.8	1630.3
52.5°	5478.0	2616.0	1792.7	1672.9	1769.7	1930.4	1925.5	1800.9	1656.5	1615.5	1605.7
55°	6011.0	2740.6	1725.4	1558.1	1691.0	1915.7	1907.5	1746.7	1646.7	1617.2	1613.9
57.5°	6631.0	2921.1	1628.6	1441.7	1600.8	1855.0	1836.9	1713.9	1613.9	1592.6	1590.9
60°	7629.9	3201.5	1490.9	1335.1	1508.9	1748.4	1771.3	1658.2	1561.4	1556.5	1554.8
62.5°	8943.6	3595.1	1348.2	1225.2	1402.3	1610.6	1676.2	1582.7	1505.6	1530.2	1533.5
65°	10757.6	3926.5	1200.6	1131.7	1284.2	1477.8	1586.0	1512.2	1443.3	1490.9	1490.9
67.5°	11940.1	3933.0	1066.1	1034.9	1164.5	1366.2	1490.9	1428.5	1362.9	1443.3	1446.6
70°	11694.1	3445.9	954.6	933.2	1048.0	1246.5	1385.9	1336.7	1261.3	1333.4	1307.2
71°	11297.2	3175.3	910.3	893.9	1002.1	1189.1	1336.7	1295.7	1220.3	1267.8	1253.1
72.5°	10664.1	2757.0	838.1	841.4	933.2	1116.9	1267.8	1225.2	1149.7	1176.0	1171.0
75°	9014.1	2407.7	716.7	731.5	802.0	993.9	1130.0	1097.2	1020.2	1020.2	1015.2
77.5°	5635.5	1682.8	595.4	603.6	680.7	851.2	971.0	943.1	869.3	844.7	838.1
80°	2102.6	869.3	465.8	475.6	523.2	670.8	803.7	777.4	702.0	674.1	647.8
82.5°	795.5	436.3	342.8	334.6	385.4	511.7	629.8	598.6	539.6	472.4	452.7
85°	300.1	216.5	209.9	203.4	226.3	303.4	390.3	383.8	321.5	273.9	269.0
87.5°	78.7	70.5	82.0	60.7	64.0	57.4	59.0	24.6	11.5	4.9	3.3
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)