

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: P648168

Luminaire Tested: **GALN-SA9A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19149 lumens  
Efficiency: N/A  
Efficacy: 69.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

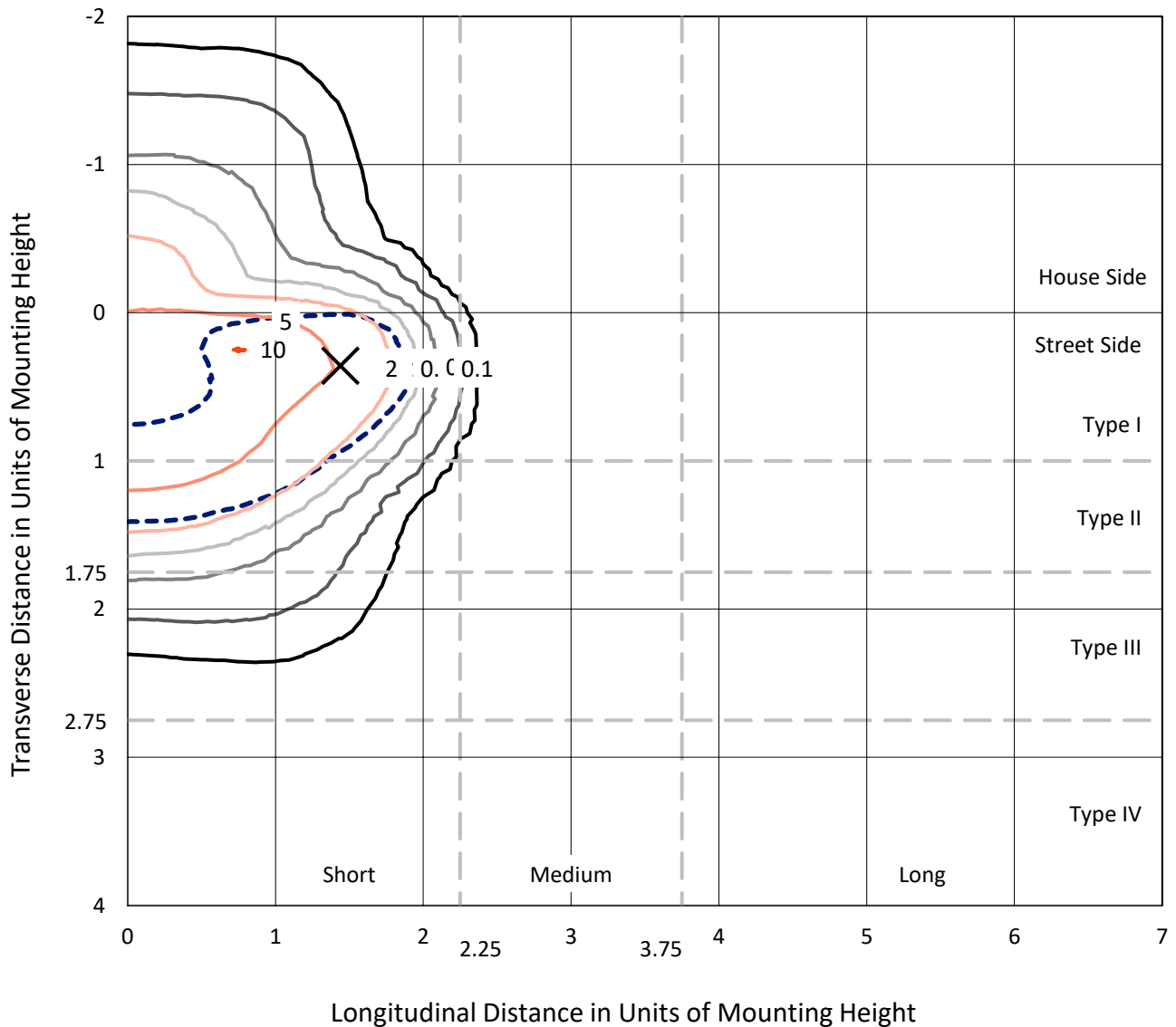
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648168  
 CATALOG NUMBER: GALN-SA9A-835-U-T2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

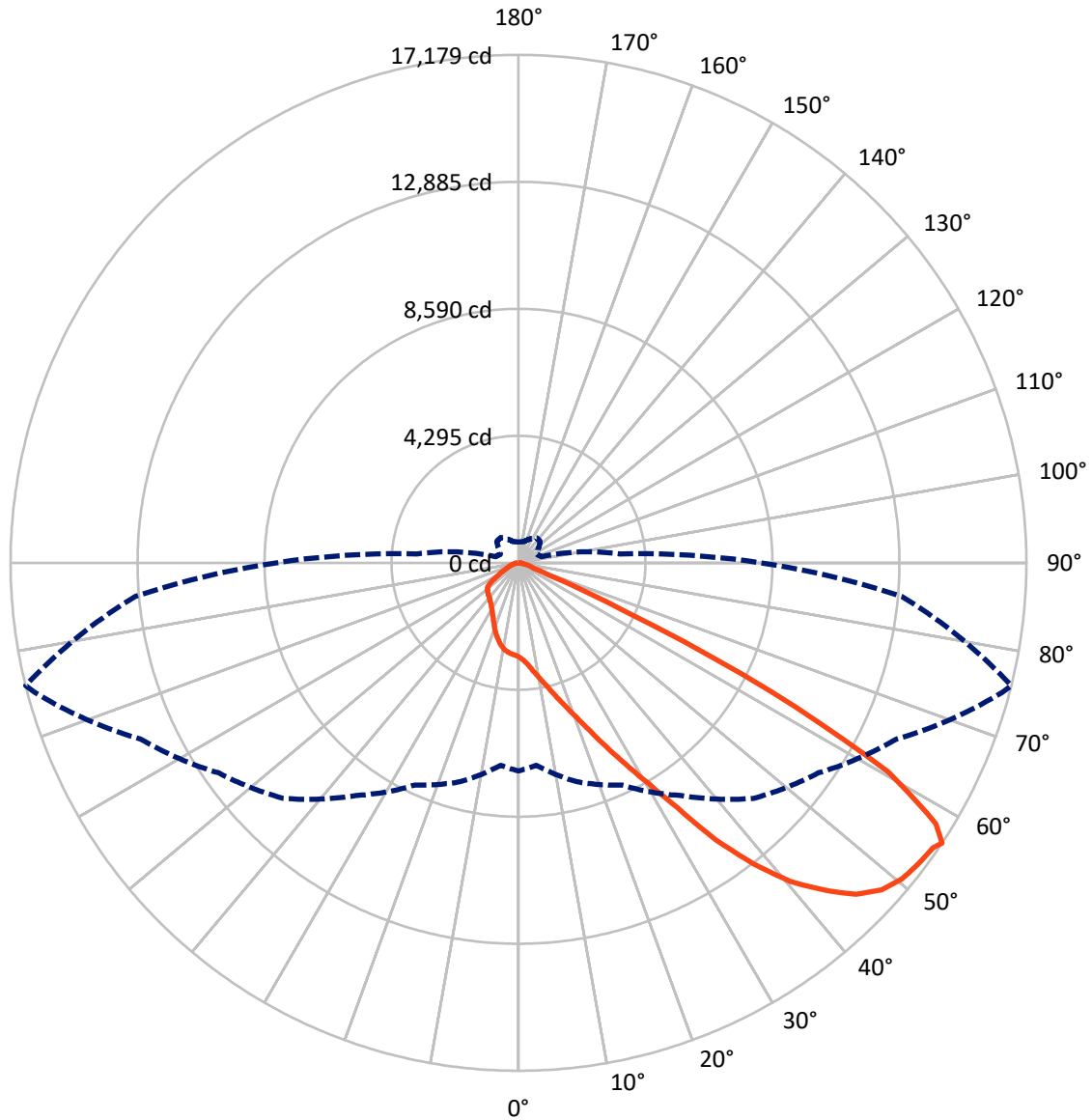
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P648168  
CATALOG NUMBER: GALN-SA9A-835-U-T2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P648168  
 CATALOG NUMBER: GALN-SA9A-835-U-T2-GRSBK

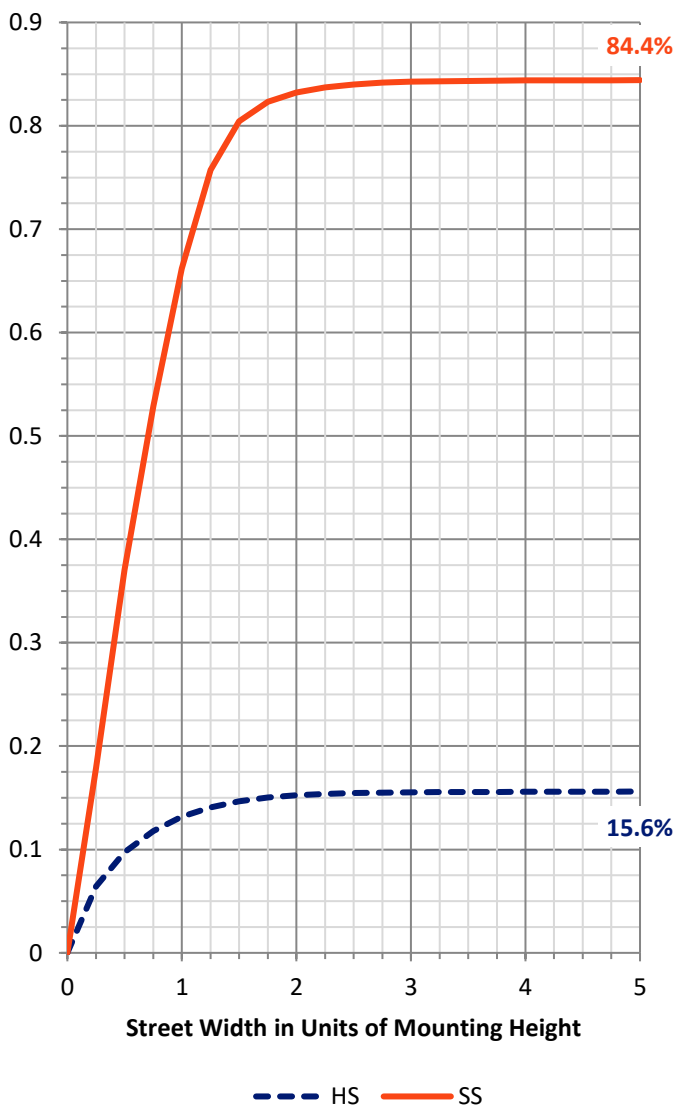
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3008.2	0.0	3008.2
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	16140.8	0.0	16140.8
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	19149.0	0.0	19149.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.1	1.7
10°-20°	1031.5	5.4
20°-30°	1870.4	9.8
30°-40°	3225.7	16.8
40°-50°	5240.2	27.4
50°-60°	5523.3	28.8
60°-70°	1687.6	8.8
70°-80°	216.3	1.1
80°-90°	32.9	0.2
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°	19149.0	100.0
0°-180°	19149.0	100.0

**Coefficient of Utilization**

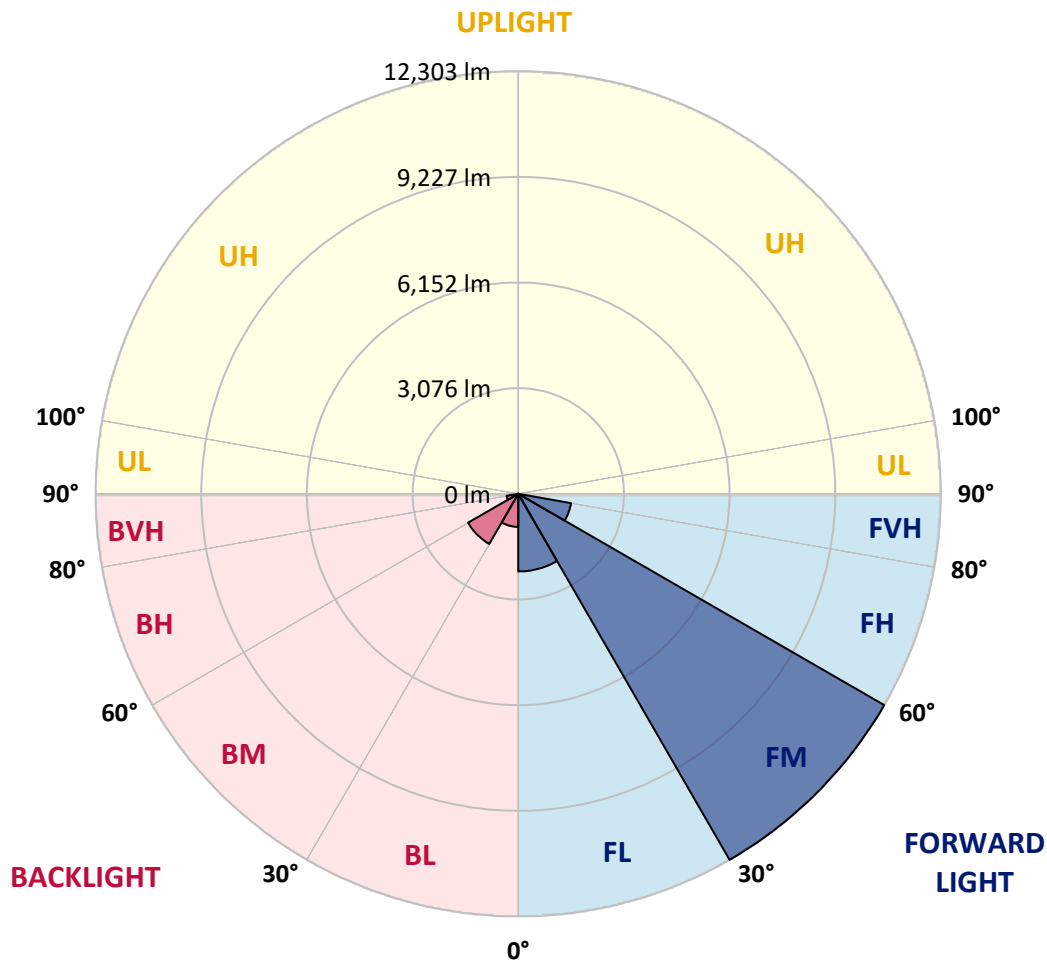


REPORT NUMBER: P648168  
 CATALOG NUMBER: GALN-SA9A-835-U-T2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.7	11.8			
FM (30°-60°)	12303.2	64.2			
FH (60°-80°)	1560.8	8.2			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	962.3	5.0	B2/1000		
BM (30°-60°)	1685.9	8.8	B2/2500		
BH (60°-80°)	343.2	1.8	B1/500		G1/500
BVH (80°-90°)	16.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P648168

CATALOG NUMBER: GALN-SA9A-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4
2.5°	3670.9	3586.2	3589.8	3582.7	3572.1	3533.3	3416.9	3399.2	3321.5	3300.3	3229.7
5°	4112.2	4038.1	4080.4	4016.9	3956.9	3921.6	3731.0	3642.8	3519.2	3473.3	3374.5
7.5°	4387.5	4352.2	4338.1	4341.7	4285.1	4196.9	4112.2	3918.1	3752.1	3716.8	3508.6
10°	4521.7	4500.4	4521.7	4511.0	4535.8	4546.3	4398.1	4281.6	4038.1	3978.0	3653.3
12.5°	4553.4	4595.7	4613.4	4659.3	4719.3	4821.6	4811.1	4652.3	4327.5	4288.6	3875.7
15°	4631.1	4666.4	4648.7	4722.8	4835.8	5008.8	5100.5	5075.8	4726.3	4655.8	4133.4
17.5°	4701.7	4638.1	4698.2	4846.4	4959.4	5224.1	5446.5	5548.8	5160.5	5079.3	4369.8
20°	4797.0	4779.4	4768.7	4842.9	5044.1	5397.1	5838.3	6025.3	5647.6	5562.9	4708.7
22.5°	5086.4	5090.0	5082.8	4973.5	5118.2	5517.0	6180.6	6643.1	6230.0	6159.5	5093.5
25°	5467.6	5421.7	5386.4	5298.2	5280.6	5626.5	6526.5	7398.4	6928.9	6879.5	5510.0
27.5°	5870.0	5870.0	5764.1	5682.9	5569.9	5898.3	6844.2	8132.6	7772.6	7705.5	5873.5
30°	6307.7	6332.4	6318.3	6145.4	6074.7	6194.8	7169.0	9071.5	8739.7	8655.0	6473.6
32.5°	6953.7	6900.7	6960.7	6816.0	6607.7	6713.6	7680.8	9911.6	9996.3	9876.3	7260.8
35°	7807.8	7776.1	7737.3	7500.7	7253.7	7338.4	8404.4	10945.9	11574.1	11514.1	8055.0
37.5°	8573.8	8556.2	8524.4	8362.0	8076.1	8178.5	9226.9	12022.4	13113.1	12915.4	9177.4
40°	9378.6	9473.9	9371.6	9226.9	8965.7	9191.6	10194.0	12661.3	14408.5	14168.5	10035.2
42.5°	10469.3	10395.2	10441.1	10176.3	10035.2	10282.2	11164.7	13300.2	15414.5	15128.7	10945.9
45°	11630.6	11634.1	11510.6	11425.8	11058.8	11327.0	11761.2	13653.2	16215.8	15993.4	11634.1
47.5°	12375.4	12371.9	12506.0	12640.1	12262.4	11997.7	12167.1	13988.5	16628.8	16526.4	11884.8
50°	12258.9	12294.2	12467.2	12968.4	13166.1	12809.6	12548.4	13889.6	16815.9	16805.3	12100.1
52.5°	10663.4	10780.0	11069.3	11793.0	12788.3	13229.6	12947.2	14073.3	16907.6	16925.2	12421.3
55°	8118.5	8182.0	8732.6	9611.6	10712.8	12223.6	12788.3	14217.9	16978.3	17010.0	12809.6
56°	7041.9	6872.5	7666.7	8291.4	9608.0	11260.0	12386.0	14105.0	16935.9	17179.4	13003.7
57.5°	5315.9	5202.9	5845.3	6625.4	7892.6	9636.3	11136.5	13572.0	16649.9	16646.4	12724.8
60°	3233.2	3120.3	3614.5	4073.3	4782.9	5933.6	7525.5	10808.1	14076.8	14373.2	10303.4
62.5°	1923.8	1994.3	2481.4	2760.3	2989.7	3109.8	3893.3	6424.2	9392.7	9604.5	6392.4
65°	1281.3	1306.0	1673.1	2132.0	2234.4	1779.0	1584.9	2601.4	4073.3	3942.8	2636.8
67.5°	790.7	847.1	1122.4	1602.5	1775.5	1298.9	751.8	970.7	1122.4	1122.4	762.4
70°	480.1	508.3	748.3	1090.7	1217.8	836.6	547.1	547.1	540.0	529.5	455.3
72.5°	229.4	247.1	381.2	561.3	571.8	441.2	423.6	462.4	451.8	448.3	377.7
75°	98.8	105.9	134.1	176.5	201.2	187.1	257.7	331.8	342.4	331.8	271.8
77.5°	31.8	35.3	49.4	63.5	67.1	81.2	109.4	137.7	158.9	148.2	134.1
80°	3.5	7.0	14.1	31.8	49.4	63.5	81.2	91.8	102.3	102.3	95.3
82.5°	3.5	3.5	14.1	28.3	45.9	60.0	77.7	88.2	102.3	105.9	98.8
85°	0.0	3.5	10.6	24.7	38.8	38.8	35.3	35.3	24.7	24.7	24.7
87.5°	0.0	0.0	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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: P648168

CATALOG NUMBER: GALN-SA9A-835-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4
2.5°	3215.6	3208.6	3113.3	3053.2	3021.5	2957.9	2919.1	2890.9	2869.7	2845.0	2848.6
5°	3258.0	3233.2	3074.4	2965.0	2834.4	2763.8	2703.8	2654.4	2622.7	2615.5	2601.4
7.5°	3378.0	3247.4	3007.3	2809.7	2643.8	2573.2	2520.2	2488.5	2502.6	2470.8	2495.6
10°	3469.8	3275.6	2926.1	2640.3	2474.4	2421.4	2393.2	2417.9	2453.2	2439.0	2421.4
12.5°	3582.7	3303.9	2795.5	2477.9	2322.6	2283.8	2333.2	2379.1	2449.7	2477.9	2442.6
15°	3709.8	3335.7	2629.7	2290.8	2192.0	2223.7	2308.4	2389.6	2460.3	2495.6	2516.7
17.5°	3865.1	3325.1	2467.3	2142.6	2068.5	2160.2	2262.6	2336.7	2442.6	2495.6	2481.4
20°	4009.8	3289.8	2287.3	1994.3	1997.8	2082.5	2167.3	2287.3	2343.8	2414.4	2389.6
22.5°	4147.5	3226.2	2100.2	1892.0	1892.0	2022.6	2064.9	2142.6	2192.0	2227.3	2223.7
25°	4341.7	3106.2	1944.9	1793.1	1835.5	1920.2	1955.5	1980.2	1959.0	1987.3	1990.8
27.5°	4479.3	2982.7	1817.8	1704.9	1782.5	1846.1	1835.5	1821.3	1771.9	1733.1	1757.8
30°	4627.5	2837.9	1708.4	1644.8	1687.2	1743.7	1701.4	1659.0	1581.3	1517.8	1521.4
32.5°	4839.3	2770.9	1613.1	1574.3	1630.8	1637.8	1591.9	1528.4	1450.7	1390.8	1387.2
35°	5234.7	2728.5	1531.9	1528.4	1539.0	1542.5	1496.6	1419.0	1387.2	1337.8	1355.5
37.5°	5630.0	2707.3	1475.5	1461.3	1457.8	1461.3	1408.4	1334.2	1394.3	1390.8	1397.8
40°	6134.7	2802.7	1394.3	1376.6	1380.1	1380.1	1313.1	1291.9	1397.8	1408.4	1411.9
42.5°	6646.6	2922.6	1341.3	1284.8	1298.9	1298.9	1263.7	1238.9	1313.1	1242.5	1231.9
45°	7091.3	3099.1	1284.8	1193.1	1228.4	1246.0	1235.4	1193.1	1147.2	1027.1	1027.1
47.5°	7236.0	3254.5	1217.8	1104.8	1133.1	1210.7	1179.0	1090.7	1009.5	910.7	903.7
50°	7490.2	3423.9	1164.8	1002.5	1062.5	1157.7	1126.0	1037.8	945.9	875.4	878.9
52.5°	7751.4	3618.0	1066.0	882.4	956.6	1115.4	1115.4	1016.6	875.4	826.0	818.9
55°	8143.2	3611.0	889.5	723.6	854.2	1051.9	1069.5	910.7	783.6	744.8	744.8
56°	8199.7	3448.6	801.2	677.7	808.3	1034.2	1037.8	882.4	748.3	706.0	706.0
57.5°	7776.1	3113.3	702.4	621.2	751.8	1002.5	1006.0	857.7	720.0	660.1	653.0
60°	5983.0	2107.3	585.9	554.2	681.2	903.7	921.3	780.1	631.8	585.9	582.4
62.5°	3378.0	1168.4	515.4	501.2	585.9	769.5	822.5	681.2	536.5	511.8	518.9
65°	1542.5	642.5	434.2	405.9	473.0	593.0	663.6	561.3	441.2	413.0	413.0
67.5°	564.8	437.7	370.6	321.2	331.8	384.8	430.6	363.5	293.0	250.6	261.2
70°	402.4	367.1	324.7	278.8	257.7	250.6	247.1	204.8	144.7	113.0	120.0
72.5°	324.7	303.6	271.8	236.5	201.2	169.4	144.7	105.9	67.1	45.9	42.4
75°	232.9	222.4	197.6	169.4	141.2	120.0	98.8	67.1	35.3	17.6	17.6
77.5°	120.0	120.0	116.5	105.9	88.2	70.6	56.5	38.8	21.1	7.0	7.0
80°	91.8	98.8	102.3	91.8	81.2	63.5	45.9	28.3	14.1	3.5	3.5
82.5°	88.2	102.3	109.4	95.3	81.2	60.0	45.9	28.3	14.1	3.5	3.5
85°	21.1	21.1	31.8	35.3	45.9	49.4	38.8	24.7	10.6	3.5	3.5
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5	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)