

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: P648510

Luminaire Tested: **GALN-SA6B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648510  
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-SA6B-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 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: 23064 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

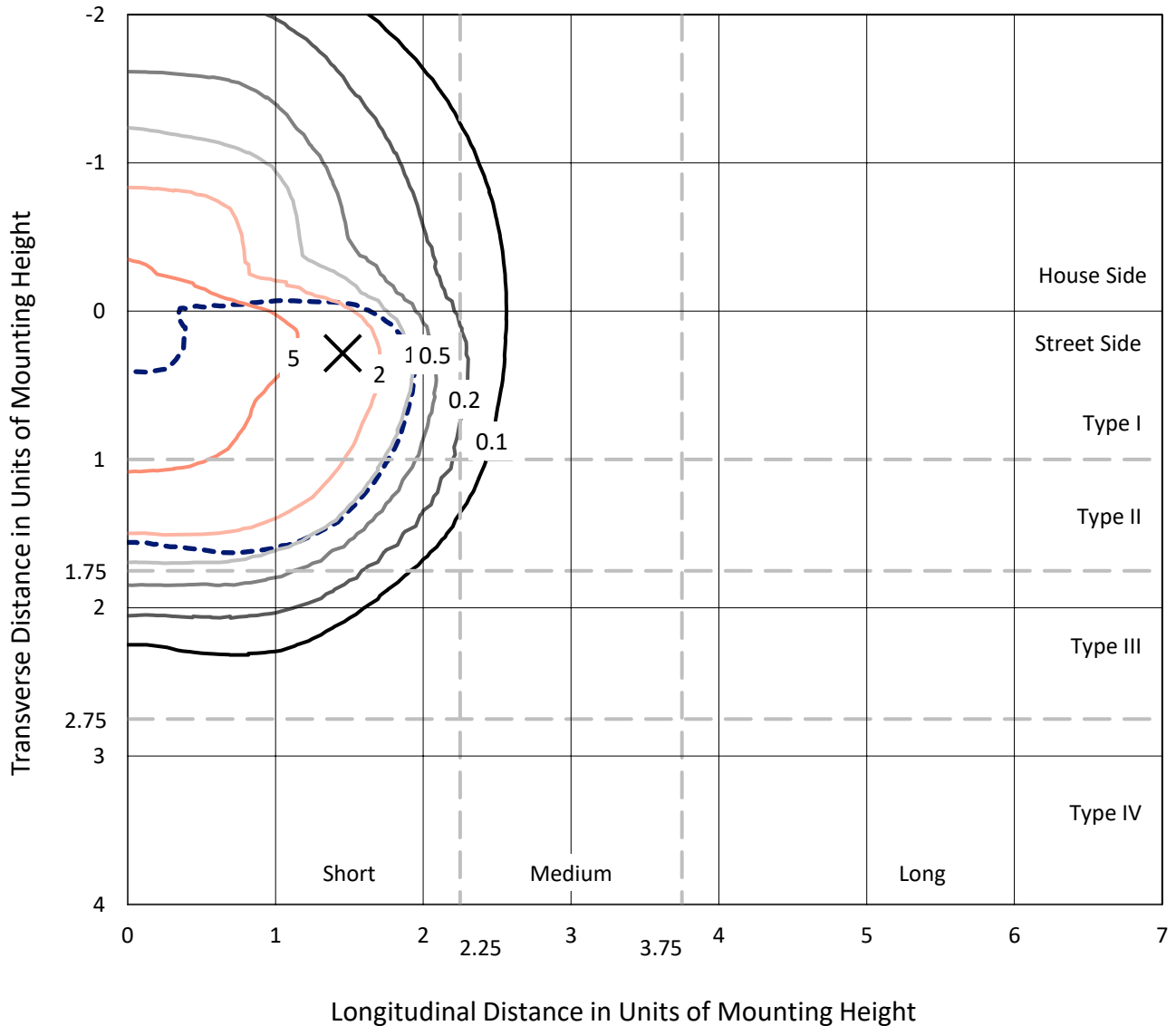
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648510  
 CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

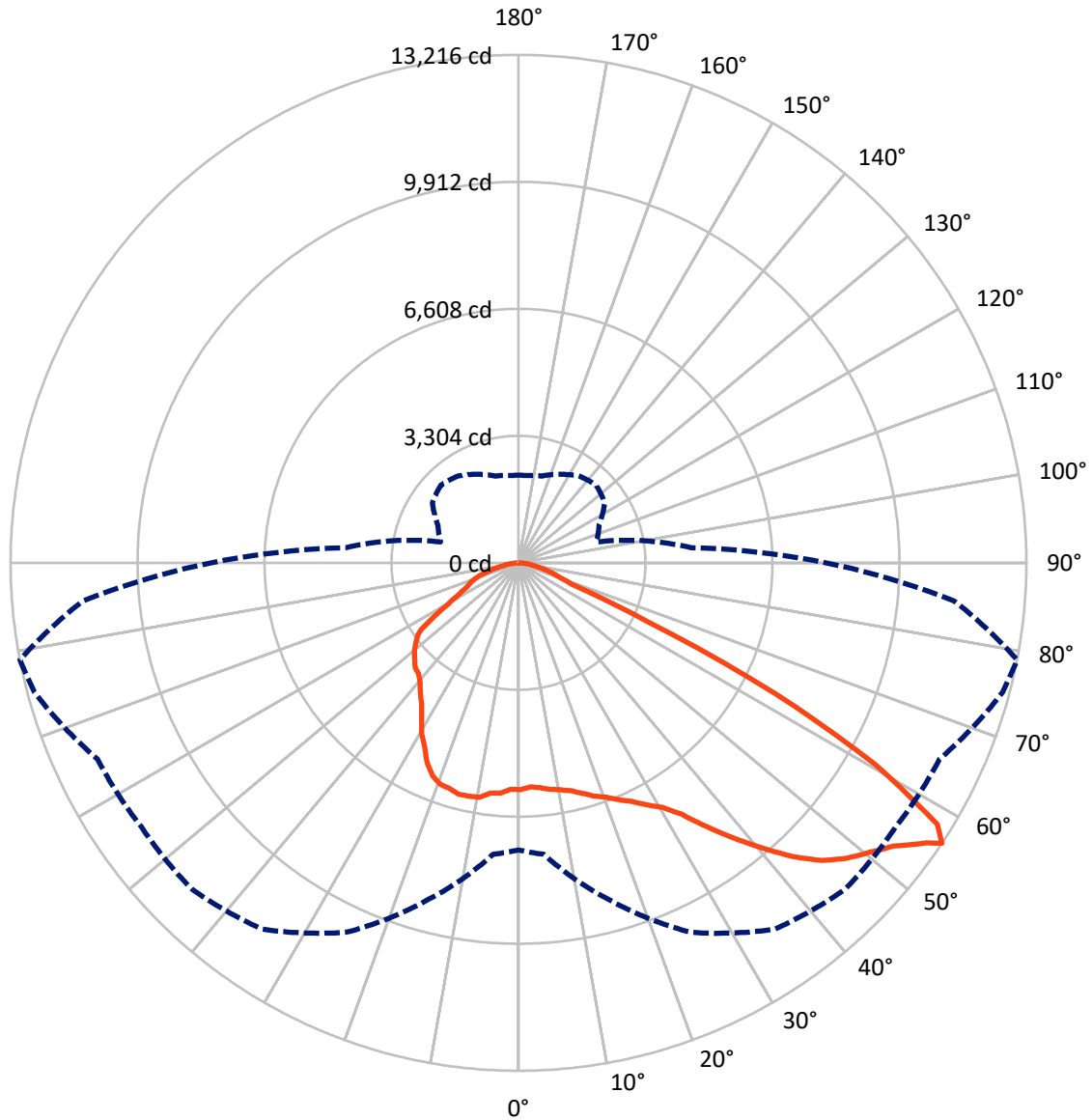
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P648510  
CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P648510  
 CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSWH

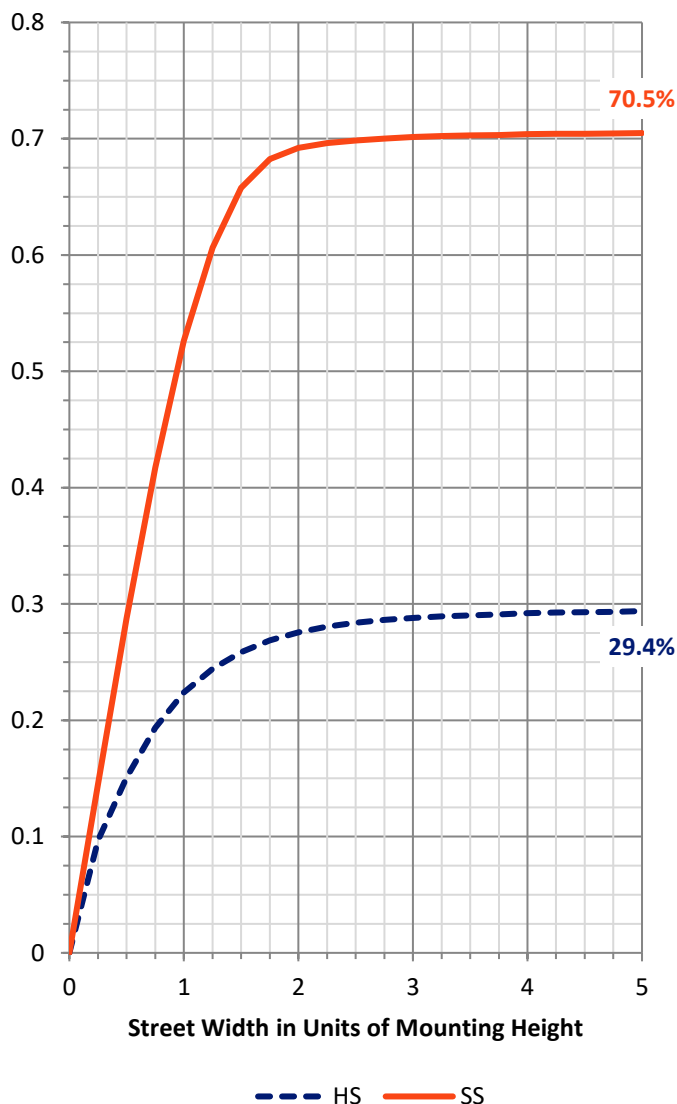
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6811.3	0.0	6811.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	16252.7	0.0	16252.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	23064.0	0.0	23064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.5	2.3
10°-20°	1468.3	6.4
20°-30°	2512.0	10.9
30°-40°	3850.0	16.7
40°-50°	5203.3	22.6
50°-60°	5976.1	25.9
60°-70°	2724.1	11.8
70°-80°	671.6	2.9
80°-90°	122.1	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°	23064.0	100.0
0°-180°	23064.0	100.0

**Coefficient of Utilization**

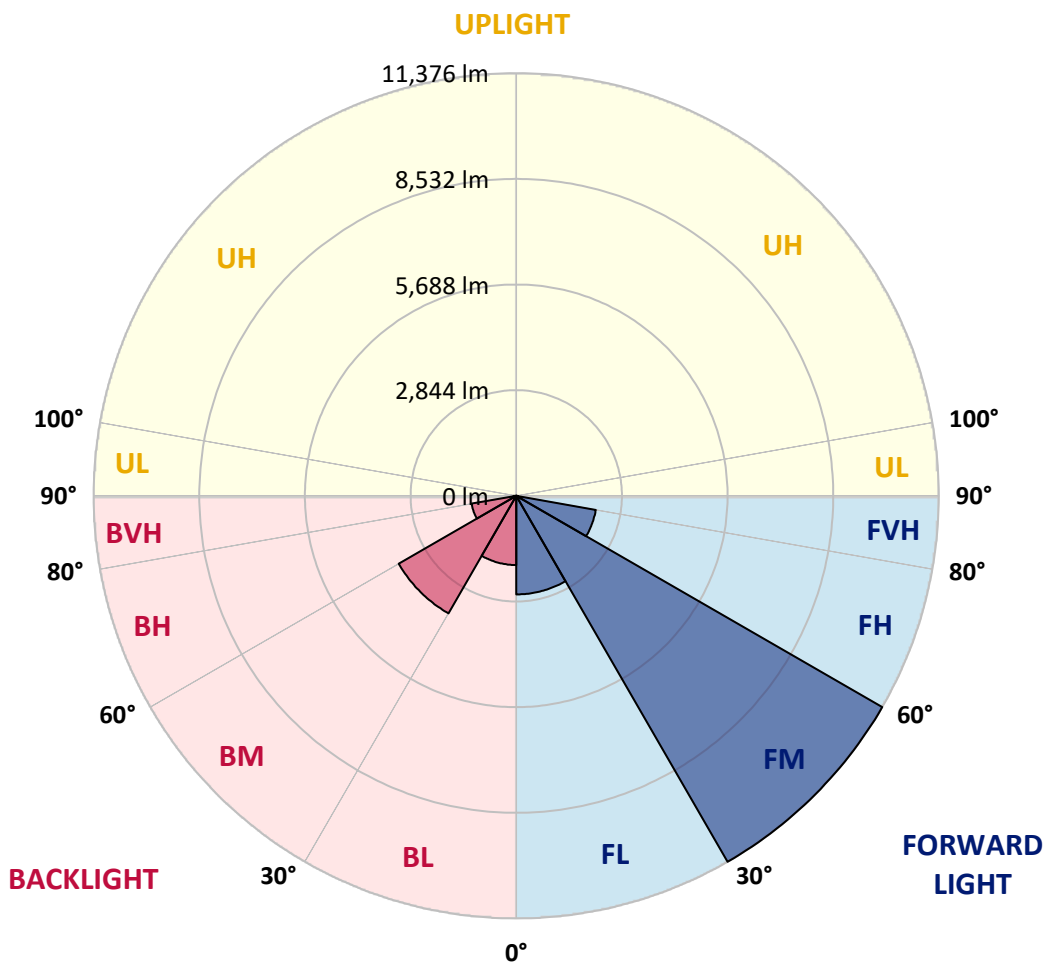


REPORT NUMBER: P648510  
 CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2653.7	11.5			
FM (30°-60°)	11375.9	49.3			
FH (60°-80°)	2174.4	9.4			G2/5000
FVH (80°-90°)	48.7	0.2			G1/100
BL (0°-30°)	1863.2	8.1	B3/2500		
BM (30°-60°)	3653.5	15.8	B3/5000		
BH (60°-80°)	1221.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	73.3	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





REPORT NUMBER: P648510

CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2
2.5°	5613.9	5599.5	5634.0	5659.8	5691.5	5731.6	5751.8	5763.3	5863.8	5838.0	5915.6
5°	5493.2	5455.9	5481.7	5501.8	5556.4	5605.3	5659.8	5746.0	5838.0	5878.2	5973.0
7.5°	5386.9	5366.8	5361.0	5375.5	5450.1	5513.3	5608.2	5734.5	5883.9	5950.0	6004.6
10°	5211.6	5182.9	5226.1	5320.8	5340.9	5473.1	5582.2	5763.3	5892.5	6007.5	6168.4
12.5°	5134.1	5105.3	5114.0	5168.6	5309.4	5435.7	5565.0	5769.0	6041.9	6087.9	6303.4
15°	5257.6	5228.9	5237.5	5223.2	5358.1	5424.2	5628.2	5883.9	6145.4	6223.0	6452.8
17.5°	5539.2	5542.1	5504.7	5473.1	5441.5	5582.2	5723.0	5952.9	6185.6	6381.0	6553.3
20°	6076.4	5981.7	5907.0	5728.8	5680.0	5740.3	5918.4	6139.7	6349.3	6510.3	6705.6
22.5°	6490.1	6498.7	6392.5	6099.4	5993.1	6019.0	6171.2	6352.2	6582.1	6697.0	6921.1
25°	7090.6	7030.2	6915.4	6682.7	6444.2	6464.3	6576.3	6740.1	6803.3	6883.7	7128.0
27.5°	7639.3	7656.6	7429.7	7211.3	6915.4	6857.9	7059.0	7087.7	6981.5	7133.7	7217.0
30°	8196.7	8182.4	8033.0	7777.2	7487.0	7498.6	7587.7	7446.9	7300.3	7383.7	7441.1
32.5°	8774.2	8610.4	8604.7	8374.8	8153.6	8047.3	7938.1	8007.1	7780.1	7797.3	7742.8
35°	9236.7	9259.8	9127.6	8963.8	8854.6	8667.9	8369.1	8492.7	8449.5	8429.5	8193.9
37.5°	9572.9	9483.9	9549.9	9495.3	9391.9	9159.1	8848.9	8966.7	8986.8	9084.4	8811.6
40°	9848.7	9811.4	9986.6	10015.4	9943.5	9440.7	8883.4	9233.8	9535.5	9748.1	9423.5
42.5°	9980.8	10061.3	10245.2	10466.4	10305.5	9768.2	9061.5	9437.9	10110.2	10446.3	10003.8
45°	10159.0	10055.5	10328.5	10733.6	10736.5	10044.1	9233.8	9713.7	10558.4	11046.7	10400.4
47.5°	9978.0	10029.7	10311.2	10825.5	10957.7	10334.3	9699.3	10104.4	11052.5	11486.3	10768.1
50°	9572.9	9676.3	10190.6	10725.0	11124.3	10641.7	10233.7	10526.7	11509.3	11839.7	10828.4
52.5°	9150.5	9208.0	10012.5	10802.6	11199.0	11038.1	10949.1	11110.0	12066.7	12239.1	10903.1
55°	8001.3	8274.3	9423.5	10768.1	11563.9	11753.5	11684.6	11920.2	12698.8	12871.1	11311.1
56°	7469.8	7613.5	9070.1	10607.1	11635.7	12015.0	11980.4	12086.8	13034.9	13215.9	11374.2
57.5°	6487.2	6498.7	7734.2	9894.7	11365.6	12092.5	12058.0	12141.4	12968.8	12845.3	10819.8
60°	4059.5	4237.7	5263.4	7610.6	9664.8	11219.1	11414.5	10745.1	10934.7	10673.2	8418.0
62.5°	2103.1	2077.2	2758.1	4450.3	6415.4	8033.0	8214.0	8182.4	7889.3	7507.2	5498.9
65°	1048.7	1054.4	1442.3	2203.6	3286.7	4206.1	4711.8	4766.4	3987.7	3668.8	2608.7
67.5°	761.3	790.0	1037.2	1347.5	1548.5	1732.5	2123.2	2082.9	1577.3	1499.7	1390.5
70°	591.9	617.7	841.8	1028.5	933.7	933.7	1017.0	1051.5	1123.4	1154.9	1192.3
72.5°	431.0	451.1	643.5	709.6	611.9	658.0	761.3	841.8	916.5	928.0	971.1
75°	295.9	313.1	422.4	390.7	367.8	453.9	557.3	632.0	686.6	715.3	741.3
77.5°	192.5	198.3	241.3	204.0	235.6	293.1	362.0	425.2	479.8	502.8	508.6
80°	86.2	94.8	103.4	129.3	163.7	209.8	258.5	310.3	344.8	353.4	370.6
82.5°	48.9	48.9	63.2	91.9	120.7	152.3	186.7	224.1	264.3	273.0	270.1
85°	25.8	25.8	37.3	54.6	74.7	89.0	86.2	89.0	94.8	109.2	106.3
87.5°	8.6	8.6	11.5	11.5	14.3	17.2	14.3	20.1	25.8	25.8	25.8
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: P648510

CATALOG NUMBER: GALN-SA6B-835-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2	5901.2
2.5°	5892.5	5918.4	5883.9	5958.6	5958.6	5944.3	5872.4	5895.4	5912.7	5912.7	5927.0
5°	6004.6	5996.0	6019.0	5929.9	5875.3	5855.2	5737.4	5680.0	5631.1	5628.2	5585.1
7.5°	6067.8	6044.8	6036.2	5970.1	5728.8	5582.2	5329.4	5182.9	5151.4	5039.3	5082.4
10°	6168.4	6211.5	6168.4	5809.2	5473.1	5136.9	4889.9	4662.9	4573.8	4502.0	4459.0
12.5°	6375.2	6355.1	6105.1	5619.6	5148.5	4749.1	4381.4	4142.9	4053.8	3990.6	3984.8
15°	6550.5	6449.9	6067.8	5320.8	4642.8	4217.6	3915.9	3746.4	3706.2	3712.0	3737.8
17.5°	6610.8	6541.9	5872.4	5010.6	4266.4	3766.5	3625.8	3599.9	3637.3	3680.3	3691.8
20°	6705.6	6596.5	5792.0	4588.2	3801.0	3485.0	3476.4	3568.3	3637.3	3700.5	3709.1
22.5°	6903.9	6628.0	5530.6	4188.9	3482.1	3401.7	3485.0	3562.6	3668.8	3720.6	3674.6
25°	6961.3	6559.1	5162.8	3709.1	3281.0	3349.9	3439.0	3545.3	3620.0	3648.7	3668.8
27.5°	7010.2	6452.8	4665.7	3390.2	3217.8	3347.1	3439.0	3528.0	3568.3	3594.1	3617.1
30°	7148.1	6421.2	4234.9	3177.6	3177.6	3289.6	3407.4	3430.4	3485.0	3516.6	3556.8
32.5°	7217.0	6202.8	3792.4	3042.5	3137.3	3318.4	3327.0	3370.0	3372.9	3398.8	3355.7
35°	7398.0	6047.7	3381.5	2944.9	3154.6	3289.6	3332.7	3306.8	3166.1	3097.1	3111.5
37.5°	7530.2	5970.1	3085.6	2933.4	3157.4	3321.2	3344.2	3148.8	3002.3	2887.4	2916.1
40°	7886.5	5777.6	2861.6	2913.2	3183.3	3355.7	3292.5	3079.9	2815.6	2697.7	2677.6
42.5°	8159.3	5639.7	2720.8	2890.3	3203.4	3404.6	3266.6	2942.0	2671.9	2562.8	2591.5
45°	8475.4	5608.2	2646.1	2896.0	3237.9	3430.4	3235.0	2835.6	2548.4	2505.3	2496.7
47.5°	8587.5	5381.2	2565.6	2847.1	3229.2	3421.8	3128.7	2755.2	2502.4	2508.1	2531.1
50°	8400.7	5148.5	2505.3	2746.6	3171.8	3344.2	2962.1	2648.9	2476.6	2548.4	2588.6
52.5°	8162.2	4910.0	2381.7	2611.5	3054.0	3223.5	2884.5	2643.2	2450.7	2427.7	2436.3
55°	8234.0	4714.6	2209.3	2427.7	2864.4	2999.4	2798.3	2588.6	2387.4	2301.3	2330.1
56°	8001.3	4513.5	2097.3	2312.7	2735.1	2855.8	2755.2	2539.7	2335.8	2278.3	2278.3
57.5°	7343.4	3838.3	1950.8	2128.9	2462.1	2605.8	2671.9	2511.0	2278.3	2177.8	2180.7
60°	5415.6	2729.4	1749.7	1876.1	2039.9	2154.7	2462.1	2430.6	2134.6	2065.7	2039.9
62.5°	3338.5	1993.9	1606.0	1654.9	1738.2	1833.0	2149.0	2200.7	1982.4	1907.7	1890.5
65°	1870.4	1525.6	1496.9	1517.0	1557.2	1606.0	1784.1	1899.1	1749.7	1634.7	1629.0
67.5°	1367.6	1364.7	1387.6	1404.9	1422.2	1422.2	1465.2	1511.2	1491.1	1399.1	1390.5
70°	1215.3	1223.9	1241.1	1244.0	1249.7	1229.6	1195.2	1180.8	1203.8	1146.3	1134.9
72.5°	1002.7	1031.4	1051.5	1054.4	1022.8	996.9	951.0	902.1	884.9	873.4	870.5
75°	770.0	790.0	798.7	795.8	784.3	747.0	692.4	643.5	611.9	577.5	594.7
77.5°	520.0	548.7	563.1	563.1	545.9	488.4	462.5	425.2	393.6	356.3	362.0
80°	364.9	385.0	407.9	405.1	376.4	347.7	310.3	275.8	249.9	221.2	218.4
82.5°	273.0	284.5	295.9	290.2	270.1	241.3	215.5	183.8	155.1	135.1	135.1
85°	97.7	106.3	129.3	135.1	146.5	146.5	123.6	103.4	83.3	69.0	69.0
87.5°	28.7	28.7	31.6	31.6	28.7	31.6	25.8	28.7	31.6	20.1	20.1
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)