

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: P648512

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27037 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

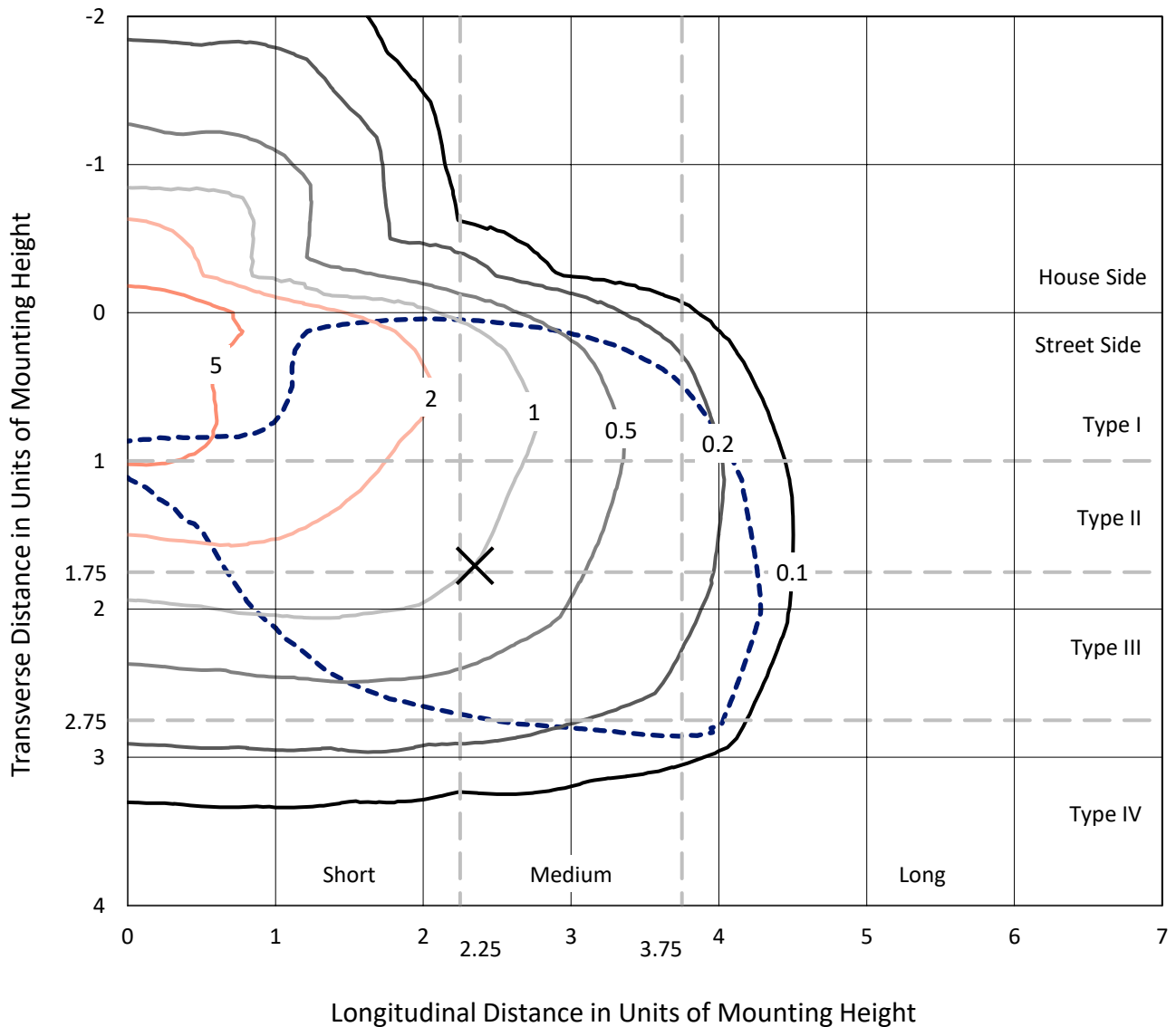
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648512  
 CATALOG NUMBER: GALN-SA6B-835-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

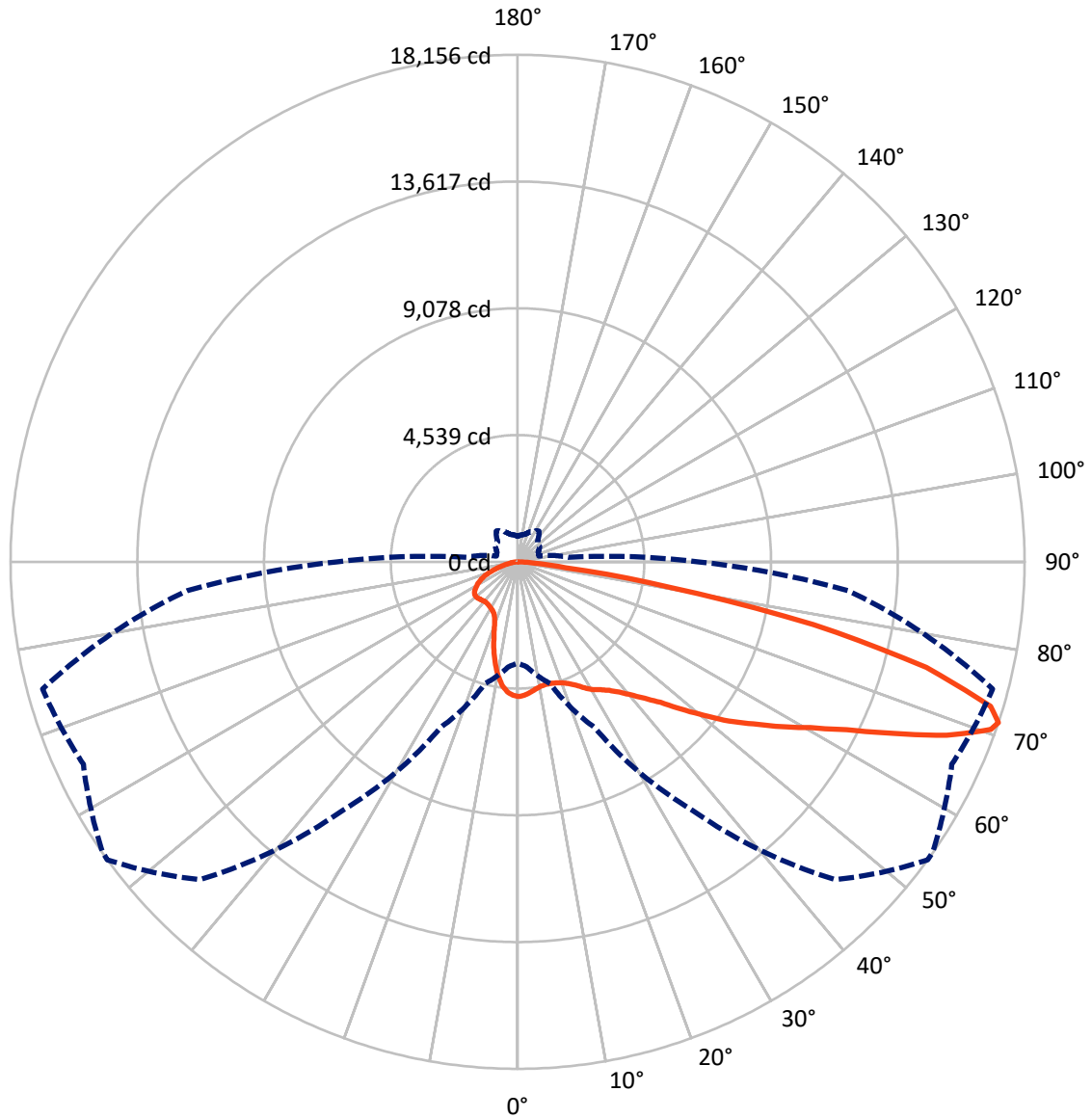
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P648512  
CATALOG NUMBER: GALN-SA6B-835-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P648512  
 CATALOG NUMBER: GALN-SA6B-835-U-T3R

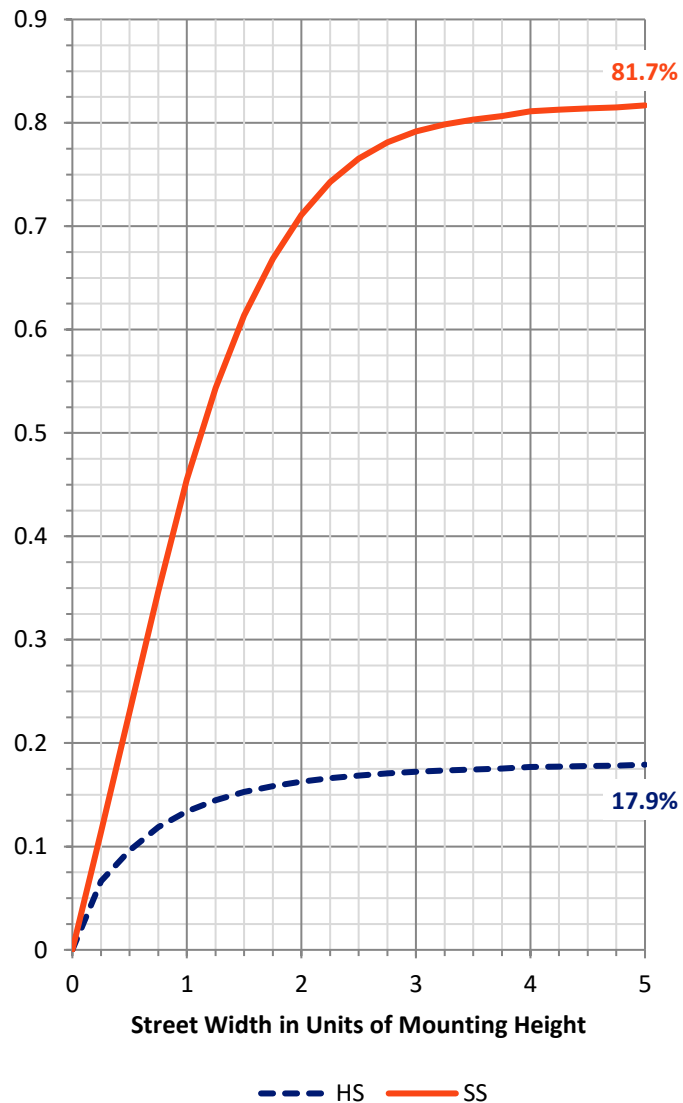
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4881.4	0.0	4881.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	22155.6	0.0	22155.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	27037.0	0.0	27037.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.9	1.6
10°-20°	1135.1	4.2
20°-30°	1890.0	7.0
30°-40°	2794.6	10.3
40°-50°	3936.3	14.6
50°-60°	5270.9	19.5
60°-70°	6643.6	24.6
70°-80°	4537.6	16.8
80°-90°	399.0	1.5
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°	27037.0	100.0
0°-180°	27037.0	100.0

**Coefficient of Utilization**

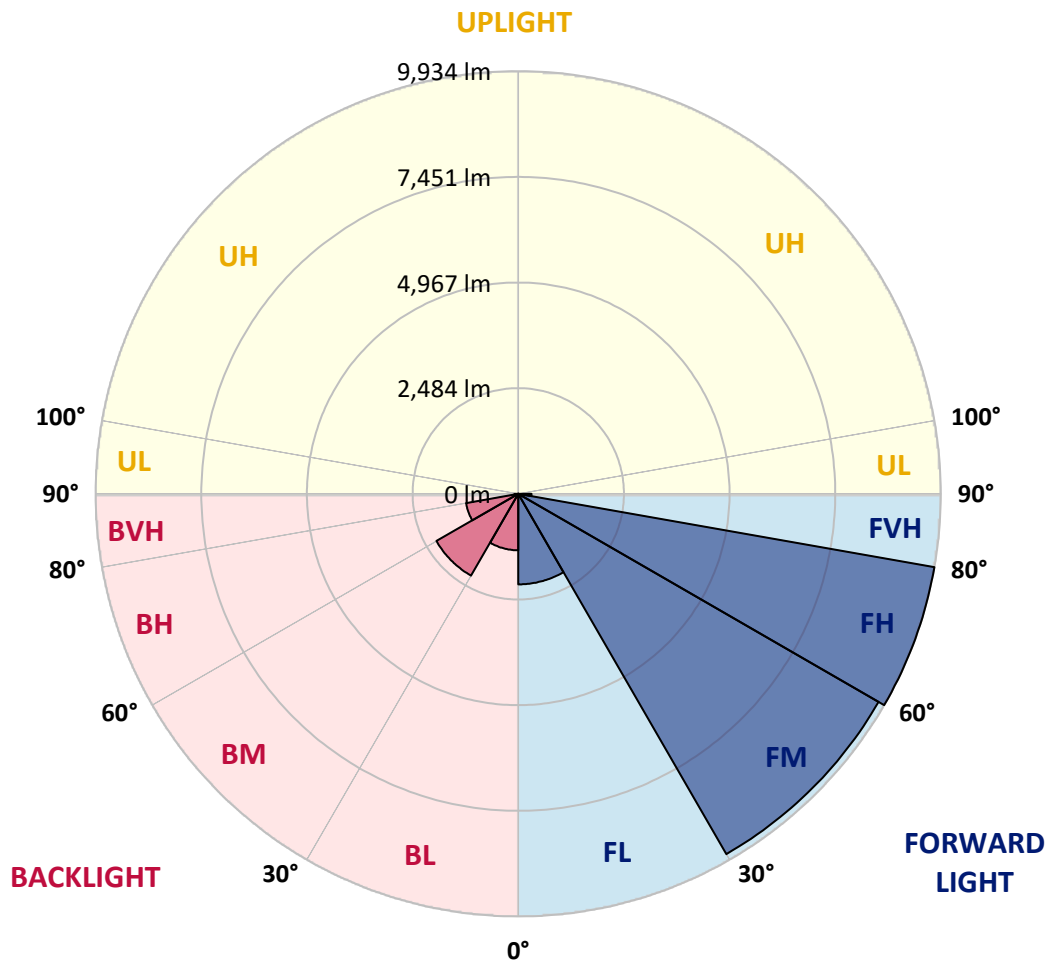


REPORT NUMBER: P648512  
 CATALOG NUMBER: GALN-SA6B-835-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.3	7.9			
FM (30°-60°)	9781.0	36.2			
FH (60°-80°)	9934.5	36.7			G4/12000
FVH (80°-90°)	311.9	1.2			G3/500
BL (0°-30°)	1326.7	4.9	B3/2500		
BM (30°-60°)	2220.9	8.2	B2/2500		
BH (60°-80°)	1246.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	87.1	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-G4**  
 Type IV Medium





REPORT NUMBER: P648512

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8
2.5°	4660.3	4682.1	4688.0	4702.6	4733.2	4758.1	4782.9	4780.0	4815.1	4829.6	4842.8
5°	4452.8	4458.7	4480.6	4509.8	4563.9	4632.5	4699.6	4701.1	4787.3	4855.9	4889.5
7.5°	4300.9	4320.0	4334.5	4365.2	4422.1	4496.7	4603.3	4612.0	4765.4	4901.2	4972.8
10°	4201.7	4223.6	4239.6	4277.6	4334.5	4417.8	4533.2	4549.2	4749.3	4972.8	5098.3
12.5°	4111.1	4133.0	4147.6	4197.3	4271.7	4374.0	4504.0	4522.9	4755.2	5056.0	5235.6
15°	4166.6	4184.1	4178.3	4192.9	4242.5	4359.4	4515.6	4534.7	4777.1	5136.3	5371.5
17.5°	4413.4	4428.0	4379.9	4324.4	4300.9	4387.1	4552.1	4572.6	4820.9	5219.6	5510.2
20°	4777.1	4816.5	4711.3	4587.2	4474.8	4486.4	4628.1	4650.0	4882.2	5302.8	5651.9
22.5°	5250.2	5279.5	5151.0	4946.4	4739.1	4632.5	4742.0	4755.2	4974.2	5410.9	5806.6
25°	5806.6	5824.2	5646.1	5383.1	5083.8	4882.2	4898.3	4921.6	5126.1	5533.5	5944.0
27.5°	6347.0	6402.5	6196.6	5875.3	5481.0	5145.1	5113.0	5127.6	5291.1	5602.2	6038.9
30°	6988.1	6983.8	6766.1	6393.7	5888.5	5431.4	5315.9	5313.0	5380.2	5635.8	6107.5
32.5°	7499.3	7559.2	7345.9	6940.0	6354.4	5727.8	5456.2	5450.3	5448.9	5694.2	6209.7
35°	8080.6	8089.3	7893.7	7484.7	6858.1	6100.2	5651.9	5622.6	5589.1	5819.8	6348.5
37.5°	8600.5	8641.3	8461.7	8003.1	7353.2	6487.2	5920.6	5901.6	5799.4	6037.4	6570.5
40°	9006.5	9037.2	8929.1	8492.4	7841.0	6904.9	6262.4	6227.3	6103.2	6393.7	6866.9
42.5°	9139.3	9202.1	9244.5	9029.9	8401.8	7400.0	6682.9	6639.1	6544.2	6934.1	7208.7
45°	9149.6	9248.9	9472.3	9482.6	8965.6	7992.9	7173.6	7143.0	7135.6	7626.3	7689.1
47.5°	9072.2	9172.9	9548.3	9751.3	9468.0	8591.7	7881.9	7833.8	7838.1	8482.2	8228.1
50°	8885.2	9005.0	9460.7	9923.6	9860.8	9213.9	8629.7	8613.6	8704.1	9459.2	8787.4
52.5°	8533.3	8677.9	9370.1	10031.7	10152.9	9749.8	9479.6	9434.4	9663.6	10519.4	9399.3
55°	7559.2	7776.8	9038.6	10091.5	10430.4	10262.5	10244.9	10326.7	10630.5	11676.2	10072.6
57.5°	7051.0	7214.5	8318.6	10101.8	10780.9	10858.3	11138.7	11159.2	11690.7	12904.4	10833.4
60°	6773.5	6918.0	7924.3	10034.6	11270.1	11595.8	12053.0	12125.9	12726.2	14234.8	11622.1
62.5°	6531.0	6655.2	7687.7	9802.4	11822.2	12689.7	13237.3	13272.4	13901.9	15704.0	12400.5
65°	5960.0	6101.7	7211.6	9570.2	12298.3	14056.7	14808.7	14767.8	15153.4	16971.7	12888.3
67.5°	5190.4	5370.0	6322.2	8768.4	12533.4	15550.7	16578.8	16527.7	16389.0	17802.6	13028.5
70°	4207.5	4303.9	5184.6	7382.4	11594.4	16334.9	17976.4	17922.4	17154.2	17912.1	12365.4
71°	3620.4	3770.8	4514.2	6557.3	10813.0	16095.4	18156.0	18141.5	17155.7	17609.8	11866.0
72.5°	2825.9	2917.9	3575.1	5080.8	9190.5	14734.3	17712.1	17767.6	16783.3	16770.1	10836.4
75°	1787.6	1828.5	2243.2	2991.0	5042.8	10434.8	15119.8	15270.2	14902.2	13726.6	8058.6
77.5°	1038.3	1091.0	1343.6	1762.8	2178.9	5663.5	10818.9	10982.4	10354.5	7557.8	3299.1
80°	604.6	663.0	885.0	1023.8	1000.4	2101.6	5508.7	5787.7	4483.5	1908.8	925.9
82.5°	335.9	375.3	622.2	623.6	533.1	686.4	1733.6	1813.8	1279.3	769.6	378.3
85°	243.9	276.0	401.6	363.6	255.6	295.0	603.1	632.4	517.0	324.2	122.7
87.5°	86.1	122.7	220.5	175.2	70.1	61.3	173.8	141.6	131.5	90.5	27.7
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: P648512  
 CATALOG NUMBER: GALN-SA6B-835-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8	4823.8
2.5°	4850.1	4853.0	4838.4	4812.1	4785.9	4752.3	4714.3	4685.1	4671.9	4670.4	4669.0
5°	4902.7	4910.0	4854.4	4772.7	4682.1	4571.2	4476.3	4368.1	4340.4	4296.6	4309.7
7.5°	4987.4	4983.0	4873.5	4699.6	4487.9	4252.8	4054.1	3938.8	3819.0	3785.4	3786.9
10°	5108.6	5080.8	4873.5	4550.7	4197.3	3848.2	3570.7	3395.5	3300.6	3221.7	3192.5
12.5°	5237.1	5167.0	4826.7	4341.9	3823.4	3395.5	3097.5	2861.0	2799.6	2735.4	2736.8
15°	5359.8	5243.0	4734.7	4048.3	3420.3	2912.1	2622.9	2481.2	2462.3	2469.6	2468.1
17.5°	5470.7	5297.0	4594.5	3721.2	2950.0	2497.3	2344.0	2354.2	2405.3	2441.9	2446.2
20°	5583.3	5329.1	4385.7	3283.0	2506.1	2246.1	2252.0	2332.3	2409.7	2459.3	2466.7
22.5°	5689.8	5343.7	4140.3	2859.5	2184.8	2139.5	2225.7	2311.9	2387.8	2436.0	2443.3
25°	5759.9	5310.1	3792.8	2417.0	2027.1	2101.6	2192.1	2265.1	2329.3	2379.1	2390.7
27.5°	5778.9	5202.0	3361.9	2059.2	1954.1	2065.1	2148.3	2202.3	2252.0	2298.7	2307.5
30°	5768.7	5042.8	2888.7	1848.9	1911.7	2022.7	2086.9	2126.4	2186.3	2222.8	2230.1
32.5°	5752.6	4857.4	2395.1	1736.5	1876.6	1983.3	2021.2	2056.3	2054.8	2040.2	2050.4
35°	5758.5	4635.4	1994.9	1669.3	1846.0	1954.1	1986.2	1942.4	1816.8	1810.9	1805.1
37.5°	5789.1	4416.4	1704.4	1622.5	1829.9	1949.7	1967.2	1765.7	1654.6	1603.6	1590.4
40°	5868.0	4160.8	1513.0	1587.5	1828.5	1983.3	1881.0	1676.6	1463.3	1364.1	1356.7
42.5°	5973.2	3909.6	1396.2	1565.6	1846.0	2034.4	1846.0	1551.0	1318.8	1260.3	1251.6
45°	6129.4	3621.8	1331.9	1555.4	1872.3	2053.3	1834.3	1459.0	1260.3	1213.6	1213.6
47.5°	6306.1	3347.3	1296.9	1548.1	1905.8	2040.2	1730.6	1429.8	1232.6	1238.5	1266.2
50°	6481.4	3109.3	1270.6	1532.0	1935.1	2032.9	1688.2	1428.3	1239.9	1314.4	1364.1
52.5°	6684.4	2941.3	1238.5	1505.7	1935.1	1986.2	1675.2	1457.5	1260.3	1282.2	1304.2
55°	6929.7	2888.7	1197.5	1448.8	1900.0	1869.3	1667.8	1499.8	1275.0	1223.8	1232.6
57.5°	7253.9	2973.4	1158.1	1377.2	1819.7	1748.1	1664.9	1511.6	1241.4	1199.0	1190.2
60°	7630.7	3141.4	1146.5	1304.2	1710.2	1644.5	1647.4	1478.0	1194.6	1150.9	1158.1
62.5°	7895.1	3242.2	1139.1	1248.7	1590.4	1530.5	1605.0	1437.0	1174.2	1136.2	1143.5
65°	7895.1	3119.5	1071.9	1163.9	1435.6	1393.3	1553.9	1385.9	1147.9	1104.1	1096.7
67.5°	7595.7	2761.6	969.7	1036.9	1264.7	1237.0	1482.3	1324.6	1108.5	1074.9	1057.4
70°	6815.9	2094.3	841.2	887.9	1048.6	1073.4	1390.3	1241.4	1042.7	1001.8	975.5
71°	6472.6	1824.1	787.1	812.0	965.4	1001.8	1346.5	1206.3	1013.5	955.1	908.4
72.5°	5811.0	1536.4	705.4	715.6	825.1	890.9	1254.5	1139.1	958.1	874.8	822.2
75°	4414.9	1121.6	568.1	562.3	610.4	706.8	1061.7	1015.0	839.8	727.3	696.6
77.5°	1907.3	610.4	425.0	429.4	414.8	536.0	835.4	871.9	720.0	591.5	563.8
80°	578.3	352.0	290.6	296.4	277.5	359.2	588.6	683.5	578.3	460.0	422.0
82.5°	296.4	210.3	198.6	195.7	176.7	203.0	356.3	467.4	413.3	287.7	254.1
85°	128.5	112.4	97.9	94.9	83.2	73.1	127.1	233.6	219.1	160.7	153.3
87.5°	32.1	29.2	18.9	17.5	10.3	1.5	0.0	0.0	0.0	0.0	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)