

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: P646996

Luminaire Tested: **GALN-SA6C-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646996  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26716 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

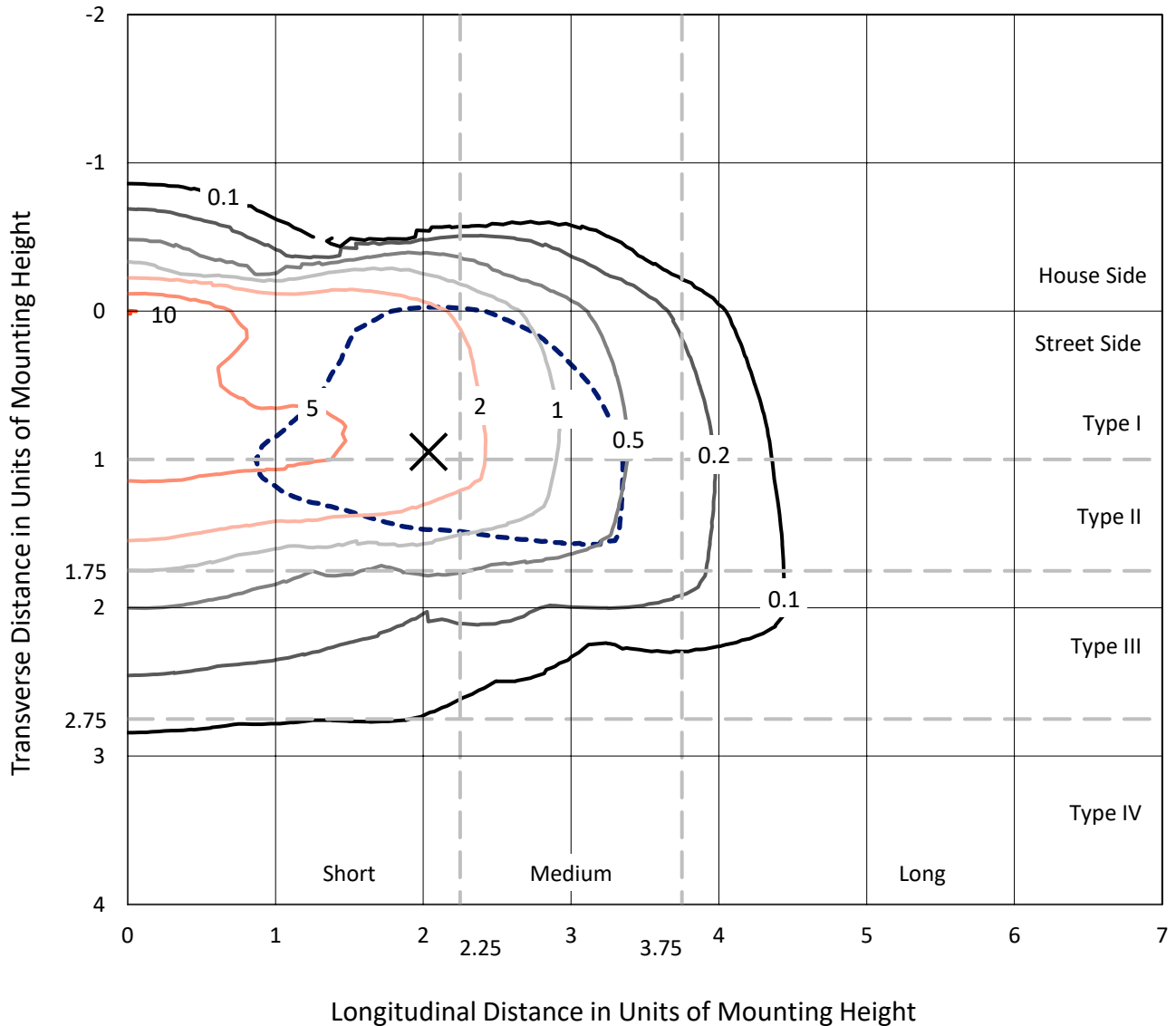
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646996  
 CATALOG NUMBER: GALN-SA6C-835-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

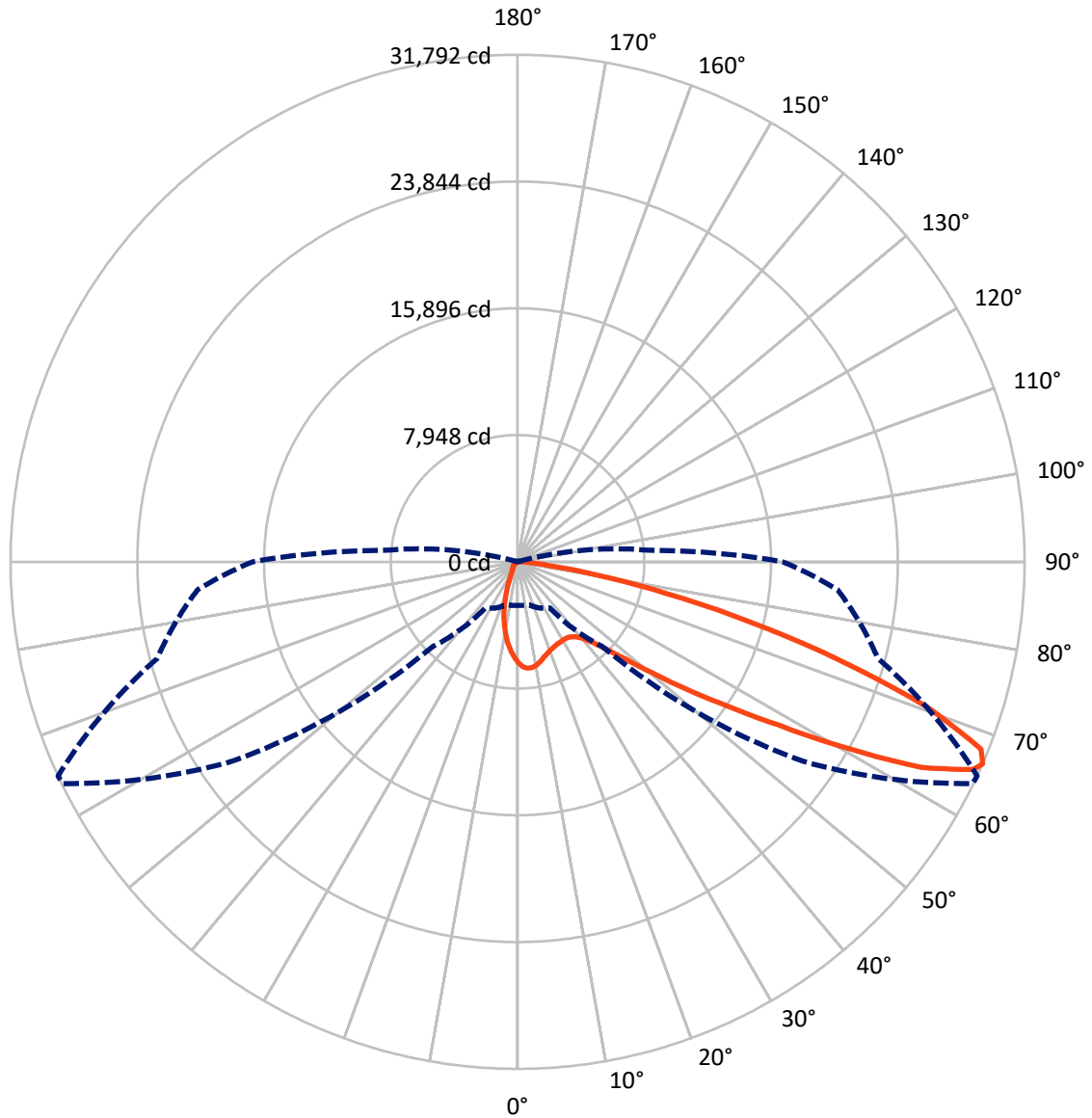
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P646996  
CATALOG NUMBER: GALN-SA6C-835-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P646996  
 CATALOG NUMBER: GALN-SA6C-835-U-SL2-HSS

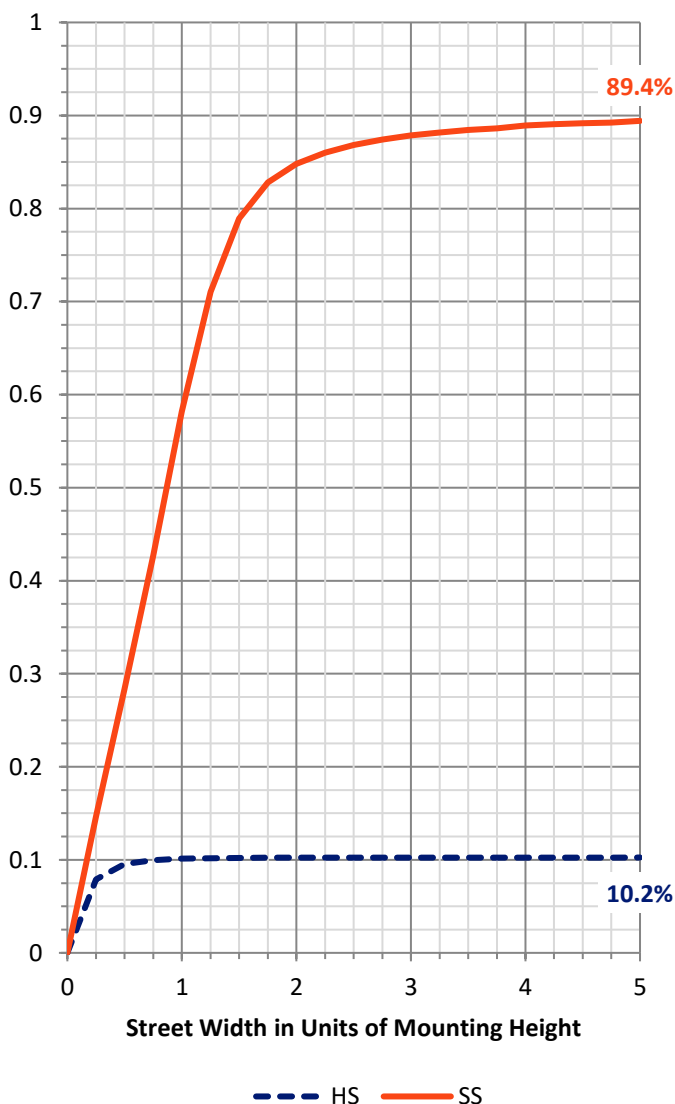
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2762.8	0.0	2762.8
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	23953.2	0.0	23953.2
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	26716.0	0.0	26716.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.1	1.9
10°-20°	1128.9	4.2
20°-30°	1617.2	6.1
30°-40°	2362.1	8.8
40°-50°	3960.8	14.8
50°-60°	6609.9	24.7
60°-70°	7016.2	26.3
70°-80°	3177.6	11.9
80°-90°	325.1	1.2
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°	26716.0	100.0
0°-180°	26716.0	100.0

**Coefficient of Utilization**

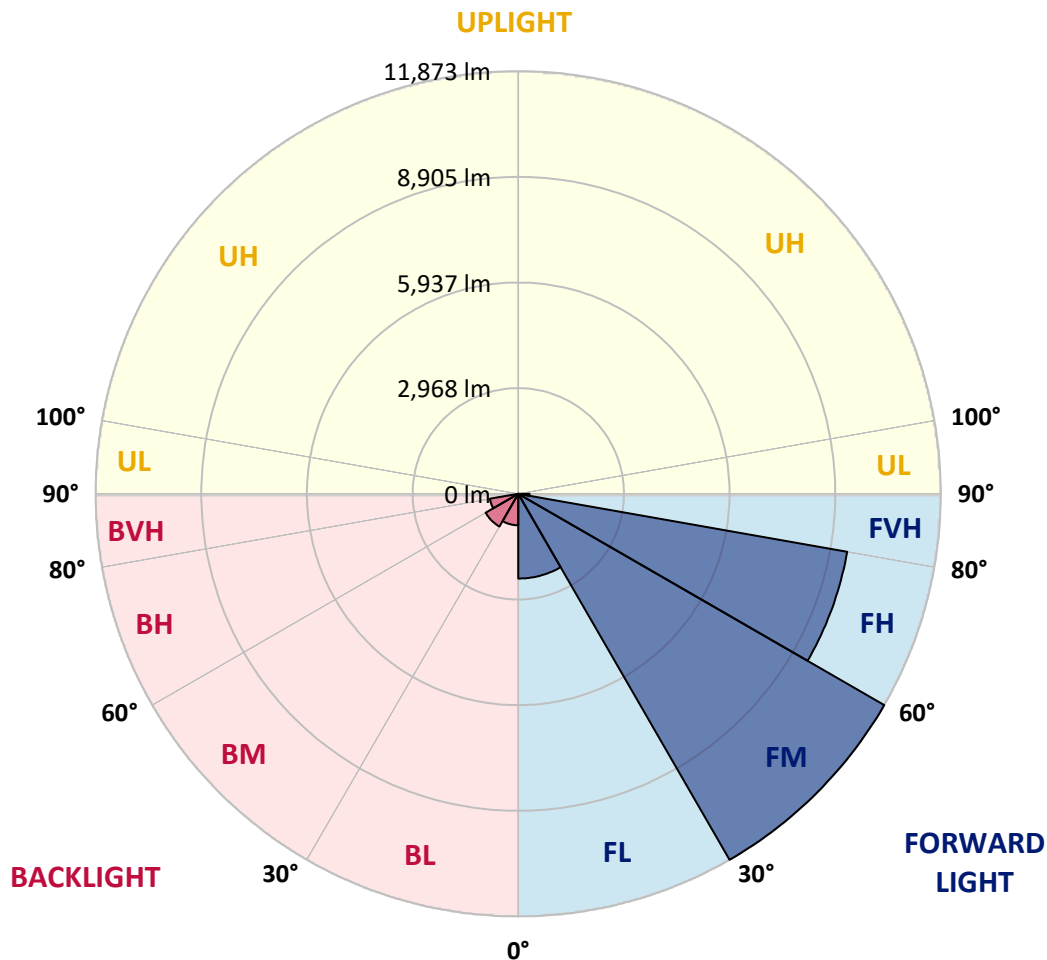


REPORT NUMBER: P646996  
 CATALOG NUMBER: GALN-SA6C-835-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.5	8.9			
FM (30°-60°)	11873.2	44.4			
FH (60°-80°)	9384.7	35.1			G4/12000
FVH (80°-90°)	314.8	1.2			G3/500
BL (0°-30°)	883.8	3.3	B2/1000		
BM (30°-60°)	1059.6	4.0	B2/2500		
BH (60°-80°)	809.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Short





REPORT NUMBER: P646996

CATALOG NUMBER: GALN-SA6C-835-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3
2.5°	6676.4	6683.6	6692.6	6705.2	6714.3	6687.2	6649.3	6606.0	6597.0	6504.9	6393.1
5°	6319.1	6329.9	6409.3	6452.6	6550.0	6638.5	6694.4	6701.6	6698.0	6611.4	6432.8
7.5°	5810.3	5840.9	5918.5	5994.3	6176.5	6344.3	6542.8	6681.8	6690.8	6667.3	6445.4
10°	5397.1	5416.9	5456.6	5606.4	5757.9	6014.1	6292.0	6553.7	6575.3	6669.1	6434.6
12.5°	5074.1	5102.9	5151.7	5267.1	5449.4	5691.2	6006.9	6358.8	6403.9	6634.9	6403.9
15°	4848.5	4862.9	4911.7	5025.3	5202.2	5425.9	5745.3	6154.9	6194.6	6589.7	6398.5
17.5°	4742.0	4758.3	4792.6	4882.8	5029.0	5236.5	5548.6	5990.7	6041.2	6560.9	6418.3
20°	4770.9	4785.3	4787.1	4834.1	4933.3	5108.3	5404.3	5837.3	5902.3	6542.8	6450.8
22.5°	4935.1	4936.9	4915.3	4893.6	4927.9	5054.2	5315.9	5739.9	5806.6	6539.2	6488.7
25°	5180.5	5185.9	5149.9	5074.1	5005.5	5070.5	5296.0	5676.8	5736.3	6530.2	6512.2
27.5°	5519.8	5518.0	5507.1	5380.8	5185.9	5142.6	5312.3	5642.5	5693.0	6504.9	6521.2
30°	5994.3	5979.8	5956.4	5813.9	5516.2	5317.7	5380.8	5620.8	5667.7	6468.8	6497.7
32.5°	6461.6	6515.8	6512.2	6376.8	6005.1	5629.8	5523.4	5649.7	5684.0	6445.4	6463.4
35°	7006.6	7004.8	7143.7	7093.2	6658.3	6028.6	5767.0	5745.3	5772.4	6461.6	6447.2
37.5°	7511.8	7558.8	7775.3	7827.6	7430.6	6591.5	6111.6	5951.0	5960.0	6571.7	6486.9
40°	8141.6	8231.8	8554.7	8729.8	8379.7	7427.0	6620.4	6328.1	6329.9	6842.4	6636.7
42.5°	8953.5	9096.1	9397.5	9689.8	9502.1	8415.8	7383.7	6925.4	6921.8	7318.8	6979.5
45°	9940.6	10039.9	10382.7	10846.4	10727.3	9796.2	8495.2	7851.1	7804.2	8100.1	7587.6
47.5°	10792.2	10927.6	11275.8	11804.6	12345.9	11481.6	9823.3	9123.2	9092.5	9343.3	8630.5
50°	11164.0	11283.1	11649.4	12391.0	13702.8	13693.8	11801.0	10979.9	10927.6	11062.9	10243.8
52.5°	10756.1	10868.0	11237.9	12161.9	14341.6	16389.6	14666.4	13309.4	13246.3	13073.0	12170.9
55°	9359.6	9451.6	9998.4	11059.3	14096.2	18186.8	18614.5	16187.5	15942.1	15269.0	14352.4
57.5°	7452.3	7405.4	7744.6	8977.0	12656.3	18789.5	22667.2	19772.9	19334.5	17167.3	16198.3
60°	5164.3	5308.6	5445.8	6257.7	9516.5	17744.7	25188.0	24280.4	23703.0	19034.9	17966.6
62.5°	3796.5	3892.1	3982.3	4357.7	5983.5	14168.4	25633.7	28910.5	28398.1	21018.0	19653.8
65°	3002.6	3009.8	3045.9	3415.8	3942.6	9213.4	23491.8	31521.5	31389.8	22927.0	20337.7
66°	2735.5	2737.3	2793.3	3190.3	3538.5	7502.8	21775.8	31720.0	31792.1	23385.4	20137.4
67.5°	2390.9	2383.6	2464.9	2867.3	3222.7	5409.7	18704.7	30915.3	31342.9	23737.2	19417.5
70°	1853.1	1844.1	1943.3	2405.3	2968.3	3608.8	12432.5	26544.9	27234.2	23017.2	17180.0
72.5°	1234.2	1241.4	1411.0	1898.2	2833.0	3177.6	7479.4	20193.3	21167.7	19007.8	13515.1
75°	720.0	732.6	925.7	1411.0	2459.4	3029.7	4233.2	14399.3	15021.9	13125.4	8419.4
77.5°	377.1	382.6	517.9	931.1	1885.6	2813.1	2820.3	9199.0	9491.3	6378.6	3332.8
80°	200.3	194.9	277.9	561.2	1297.4	2470.3	2288.0	4870.2	5063.2	1894.6	842.7
82.5°	75.8	83.0	148.0	368.1	766.9	1773.7	1970.4	2152.7	2085.9	416.8	353.7
85°	14.4	18.0	63.2	218.3	386.2	741.7	1452.5	1055.6	978.0	157.0	203.9
87.5°	1.8	3.6	18.0	52.3	55.9	250.8	429.5	292.3	252.6	57.7	84.8
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: P646996  
 CATALOG NUMBER: GALN-SA6C-835-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3	6335.3
2.5°	6338.9	6290.2	6127.8	5967.2	5803.0	5655.1	5554.1	5389.9	5348.3	5288.8	5254.5
5°	6326.3	6212.6	5900.5	5559.5	5241.9	4899.0	4637.4	4384.7	4249.4	4180.8	4155.6
7.5°	6290.2	6109.7	5622.6	5088.5	4579.6	4067.1	3621.5	3282.3	3063.9	2914.2	2813.1
10°	6218.0	5969.0	5299.6	4565.2	3796.5	3119.9	2555.1	2125.6	1793.6	1688.9	1692.5
12.5°	6144.0	5812.1	4938.7	3984.1	3031.5	2177.9	1578.8	1239.6	1080.9	1028.5	1017.7
15°	6075.5	5662.3	4585.0	3421.2	2257.3	1411.0	1017.7	898.6	855.3	846.3	844.5
17.5°	6039.4	5523.4	4207.9	2777.0	1575.2	958.2	815.6	783.2	770.5	761.5	757.9
20°	6008.7	5402.5	3847.0	2174.3	1077.3	785.0	730.8	700.1	678.5	669.5	664.1
22.5°	5987.1	5278.0	3473.5	1683.5	824.7	696.5	647.8	608.1	577.4	566.6	559.4
25°	5954.6	5140.8	3096.4	1230.6	694.7	618.9	563.0	516.1	476.4	456.5	452.9
27.5°	5907.7	4985.6	2683.2	911.3	620.7	550.4	481.8	424.1	384.4	362.7	364.5
30°	5831.9	4823.2	2270.0	723.6	561.2	480.0	406.0	350.1	312.2	295.9	294.1
32.5°	5741.7	4626.5	1891.0	620.7	507.1	416.8	339.2	290.5	261.7	249.0	247.2
35°	5656.9	4428.1	1504.9	557.6	451.1	359.1	285.1	243.6	222.0	211.1	212.9
37.5°	5610.0	4251.2	1172.9	507.1	406.0	308.6	245.4	209.3	189.5	180.5	178.6
40°	5640.7	4106.8	932.9	462.0	355.5	265.3	211.1	180.5	160.6	148.0	148.0
42.5°	5785.0	4043.7	752.5	418.6	308.6	229.2	184.1	155.2	133.5	120.9	122.7
45°	6225.2	4110.5	629.8	378.9	265.3	198.5	158.8	128.1	108.3	99.2	97.4
47.5°	6956.1	4361.3	545.0	337.4	227.4	169.6	133.5	106.5	86.6	79.4	77.6
50°	8233.6	4879.2	481.8	295.9	193.1	144.4	110.1	84.8	68.6	61.4	61.4
52.5°	9991.1	6008.7	436.7	249.0	162.4	122.7	90.2	68.6	54.1	48.7	46.9
55°	11828.0	7199.7	413.2	209.3	135.3	101.1	72.2	54.1	41.5	36.1	34.3
57.5°	13594.5	8134.4	386.2	169.6	108.3	77.6	55.9	41.5	28.9	25.3	23.5
60°	15288.9	8890.4	328.4	135.3	84.8	55.9	41.5	28.9	19.8	16.2	16.2
62.5°	16804.6	9330.7	258.0	108.3	65.0	39.7	27.1	21.7	14.4	10.8	10.8
65°	16981.5	8758.7	194.9	83.0	46.9	25.3	16.2	16.2	10.8	7.2	7.2
66°	16626.0	8273.3	171.4	75.8	41.5	21.7	14.4	12.6	9.0	5.4	5.4
67.5°	15832.0	7445.1	148.0	65.0	34.3	16.2	10.8	10.8	7.2	3.6	3.6
70°	13679.3	6080.9	117.3	48.7	25.3	12.6	7.2	7.2	5.4	3.6	3.6
72.5°	10426.0	4539.9	95.6	36.1	18.0	9.0	5.4	5.4	5.4	3.6	3.6
75°	6288.4	2445.0	74.0	27.1	16.2	7.2	3.6	5.4	7.2	5.4	3.6
77.5°	2316.9	831.9	57.7	21.7	12.6	7.2	3.6	3.6	7.2	5.4	5.4
80°	568.4	216.5	41.5	18.0	12.6	7.2	3.6	3.6	7.2	7.2	7.2
82.5°	263.5	92.0	28.9	16.2	12.6	7.2	3.6	3.6	5.4	7.2	7.2
85°	151.6	43.3	23.5	18.0	12.6	7.2	3.6	3.6	5.4	7.2	7.2
87.5°	61.4	21.7	21.7	18.0	14.4	9.0	3.6	3.6	3.6	5.4	5.4
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)