

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: P647654

Luminaire Tested: **GALN-SA9D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32051.3 lumens  
Efficiency: N/A  
Efficacy: 58.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

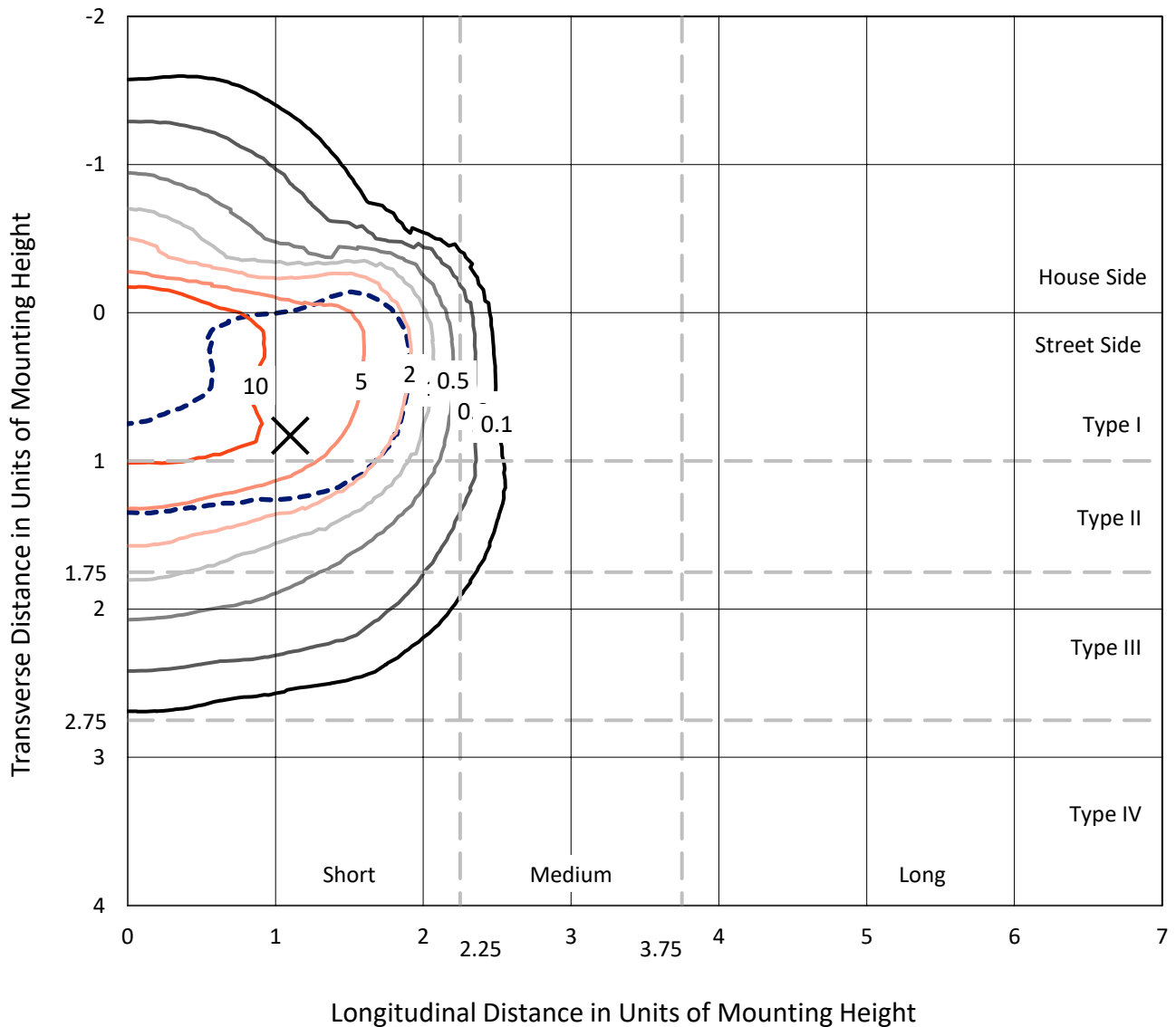
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647654  
 CATALOG NUMBER: GALN-SA9D-835-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

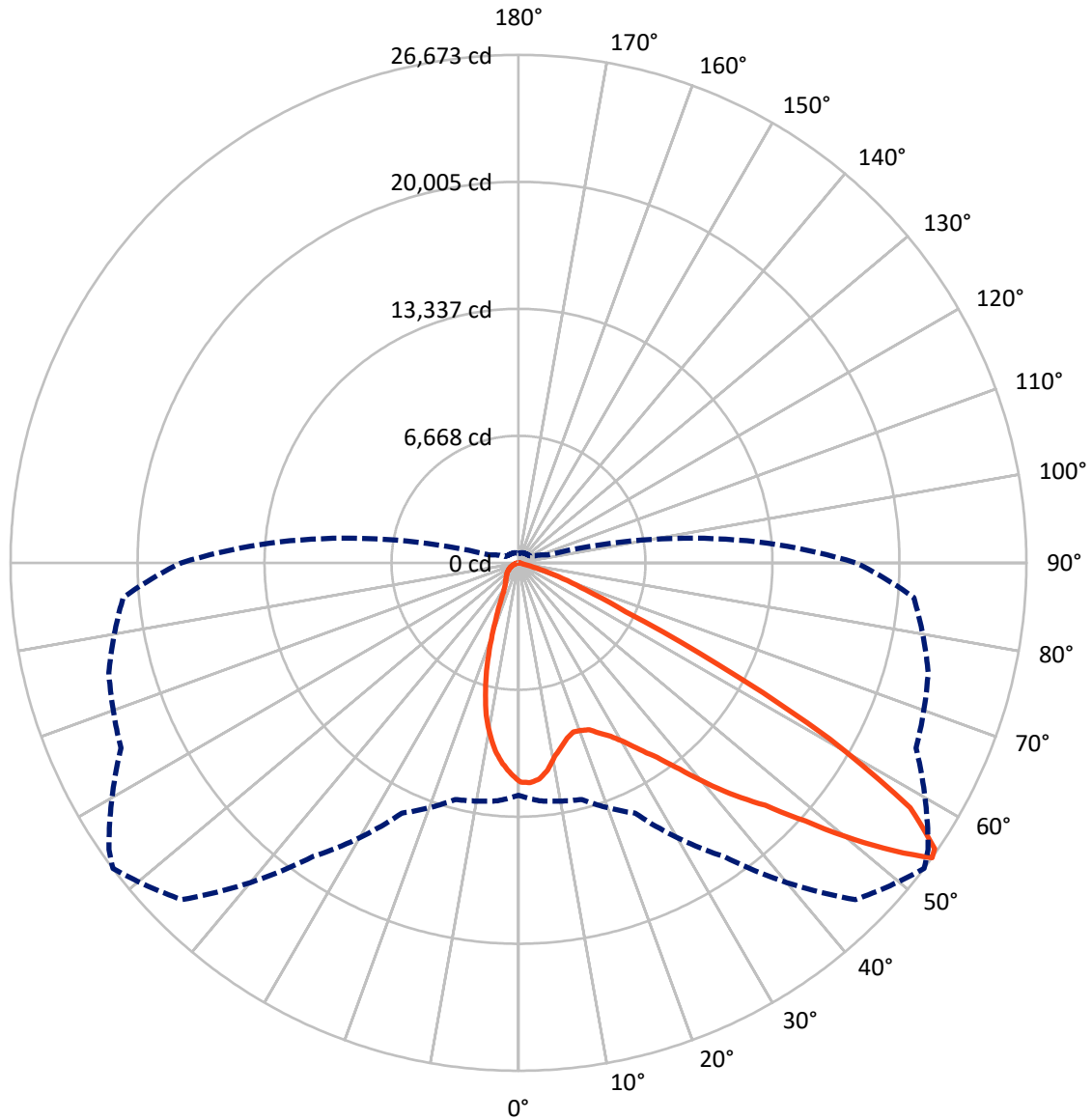
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P647654  
CATALOG NUMBER: GALN-SA9D-835-U-SL2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P647654  
 CATALOG NUMBER: GALN-SA9D-835-U-SL2-GRSBK

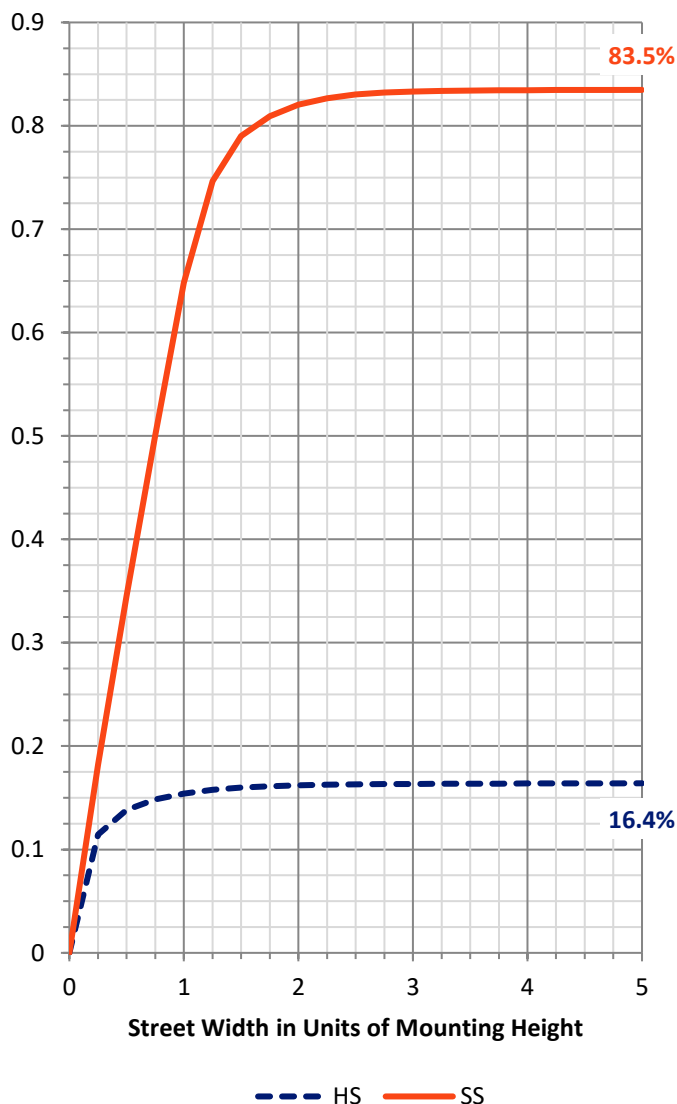
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5303.0	0.0	5303.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	26748.4	0.0	26748.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	32051.3	0.0	32051.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	987.7	3.1
10°-20°	2264.5	7.1
20°-30°	3218.4	10.0
30°-40°	4966.9	15.5
40°-50°	7787.6	24.3
50°-60°	9046.3	28.2
60°-70°	3418.3	10.7
70°-80°	325.1	1.0
80°-90°	36.6	0.1
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°	32051.3	100.0
0°-180°	32051.3	100.0

**Coefficient of Utilization**

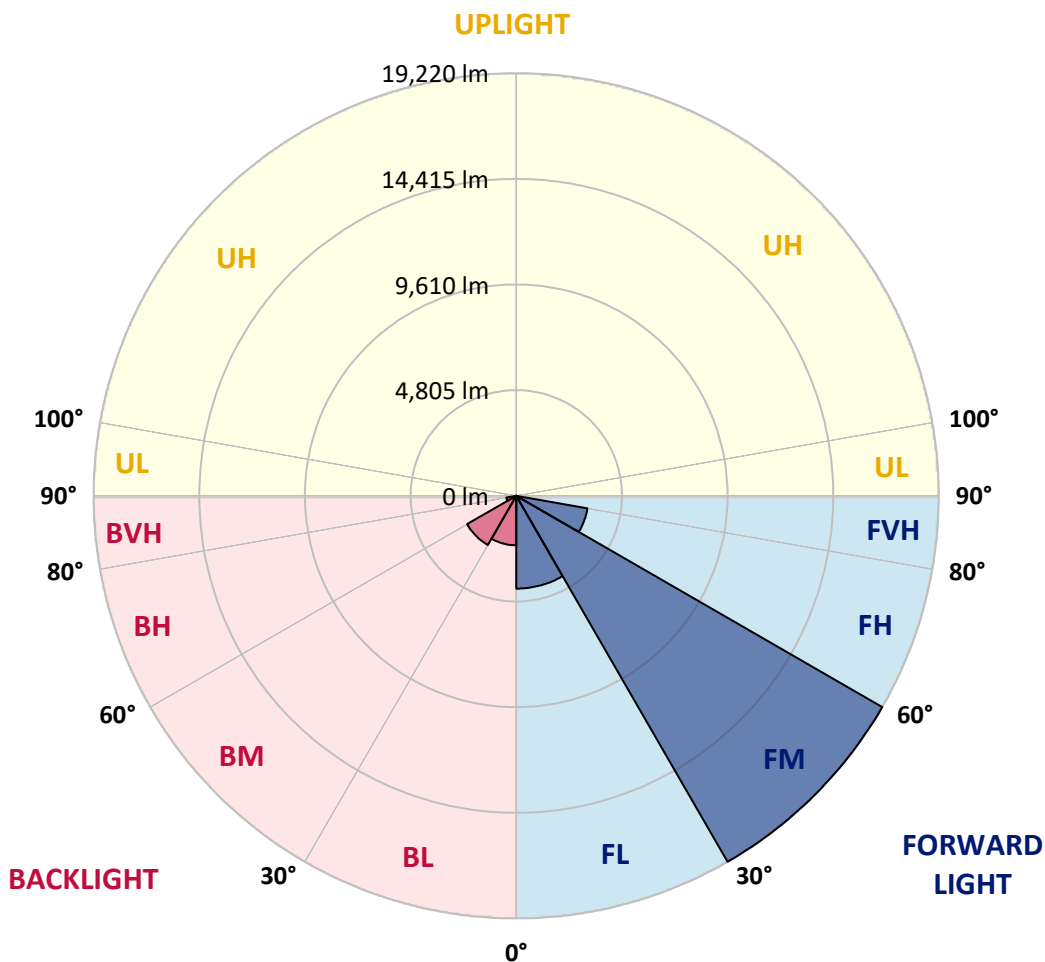


REPORT NUMBER: P647654  
 CATALOG NUMBER: GALN-SA9D-835-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4220.3	13.2			
FM (30°-60°)	19220.2	60.0			
FH (60°-80°)	3289.0	10.3			G2/5000
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	2250.4	7.0	B3/2500		
BM (30°-60°)	2580.6	8.1	B3/5000		
BH (60°-80°)	454.4	1.4	B1/500		G1/500
BVH (80°-90°)	17.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





REPORT NUMBER: P647654

CATALOG NUMBER: GALN-SA9D-835-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3
2.5°	11452.5	11351.1	11452.5	11464.5	11536.2	11601.9	11560.1	11655.6	11601.9	11542.1	11524.3
5°	10527.0	10664.4	10670.3	10885.3	10837.6	11231.7	11404.8	11357.0	11649.6	11631.7	11589.9
7.5°	9697.1	9643.3	9715.0	9965.8	10282.3	10736.0	10986.8	10980.9	11398.8	11697.4	11667.6
10°	8926.8	8920.8	9070.1	9267.2	9535.8	10013.6	10359.9	10533.0	11183.9	11637.7	11703.3
12.5°	8407.3	8383.4	8544.6	8705.9	9129.9	9500.1	9941.9	10025.5	10771.9	11428.7	11536.2
15°	8066.9	8120.7	8132.6	8443.2	8711.8	9201.5	9547.8	9720.9	10580.8	11261.5	11673.5
17.5°	8007.3	8078.9	8084.9	8341.6	8628.3	9040.3	9344.8	9577.7	10419.6	11345.1	11679.5
20°	8126.7	8084.9	8120.7	8281.9	8562.6	8956.7	9398.5	9476.2	10365.8	11386.9	11745.2
22.5°	8467.0	8455.1	8365.5	8496.9	8694.0	9106.0	9523.9	9643.3	10521.1	11601.9	11798.9
25°	8843.2	8908.9	8825.3	8807.4	8944.8	9350.7	9906.0	10061.3	11040.6	11990.0	11966.1
27.5°	9547.8	9482.1	9482.1	9398.5	9362.7	9559.7	10318.1	10574.8	11619.8	12491.6	12157.2
30°	10222.5	10294.2	10240.5	10270.3	10031.5	10013.6	10903.3	11219.7	12646.8	13255.9	12563.2
32.5°	11291.3	11195.8	11285.4	11207.8	10891.3	10568.9	11697.4	12025.8	13888.8	14133.6	13172.3
35°	12181.1	12139.2	12521.4	12509.4	11996.0	11679.5	12539.4	13029.0	14754.6	15184.6	13888.8
37.5°	13446.9	13369.3	13805.2	14014.2	13554.4	13082.7	13745.5	14312.8	15560.7	16026.4	14623.2
40°	14748.7	14945.7	15530.9	15877.2	15387.5	14760.6	15220.3	15393.5	16098.1	16575.8	15124.8
42.5°	16396.6	16683.3	17280.4	17579.0	17537.2	16856.4	16719.1	16713.1	16486.2	16420.5	15495.0
45°	17979.0	17871.5	18791.1	19441.9	19967.4	19770.4	18164.1	17985.0	17101.3	16653.4	15590.5
47.5°	18671.7	18635.8	19262.8	20421.2	22212.5	22457.3	20265.9	19573.3	18140.2	17632.7	16110.1
50°	17776.0	17961.1	18582.1	19865.9	22612.6	24481.5	22845.4	21914.0	19352.4	18826.9	17340.1
52.5°	14850.1	14975.5	15566.7	17196.8	21251.2	25675.7	25317.5	24780.1	21579.6	20707.8	19483.7
54°	12210.9	12545.3	12867.7	14503.8	18826.9	25012.9	26673.0	26261.0	23030.5	22272.2	20833.2
55°	10634.5	10831.6	11064.5	12694.5	17149.0	23890.4	26517.7	26553.5	24003.9	22761.9	21740.8
57.5°	7768.4	7905.7	7666.9	8389.4	11775.0	19400.2	24254.6	25221.9	25317.5	23496.3	22296.1
60°	5935.3	5995.0	5726.3	5839.8	7320.6	13315.5	18761.2	19925.5	22839.5	20534.6	18886.6
62.5°	4603.7	4615.6	4609.7	4806.8	5045.6	7834.1	11733.3	12766.2	15745.8	14581.4	12825.9
65°	3391.6	3337.9	3433.4	4030.5	4305.2	4926.2	6180.1	6932.4	8556.6	7225.1	5165.0
67.5°	2197.3	2215.3	2310.8	2997.5	3690.1	3779.7	3803.6	3743.9	3749.9	2066.0	1295.7
70°	1319.6	1349.5	1319.6	1695.8	2639.3	2710.9	2478.0	2418.3	1886.9	489.6	483.7
72.5°	782.2	740.4	662.8	728.5	1098.7	1313.6	1182.3	1176.3	740.4	286.6	286.6
75°	328.4	298.6	244.8	221.0	292.6	280.6	280.6	250.8	197.1	191.1	179.2
77.5°	65.7	65.7	47.8	53.7	71.6	83.6	101.5	101.5	119.4	119.4	113.5
80°	0.0	6.0	17.9	35.9	53.7	77.6	89.6	89.6	101.5	101.5	83.6
82.5°	0.0	6.0	17.9	35.9	47.8	71.6	89.6	89.6	101.5	107.5	89.6
85°	0.0	6.0	17.9	29.8	47.8	59.7	59.7	53.7	41.8	35.9	23.9
87.5°	0.0	0.0	6.0	12.0	6.0	12.0	12.0	12.0	12.0	12.0	12.0
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: P647654  
 CATALOG NUMBER: GALN-SA9D-835-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3	11512.3
2.5°	11566.0	11560.1	11416.8	11183.9	11130.1	10933.1	10909.2	10789.8	10855.4	10634.5	10610.7
5°	11470.5	11398.8	11225.7	11076.4	10640.5	10330.0	10085.2	9786.6	9613.5	9643.3	9529.9
7.5°	11607.8	11422.7	11118.2	10598.7	10067.3	9523.9	9231.3	8622.3	8401.4	8073.0	8025.2
10°	11464.5	11327.2	10855.4	9995.6	9261.2	8479.0	7792.3	7117.5	6604.1	6383.1	6335.3
12.5°	11452.5	11213.7	10425.6	9470.2	8407.3	7284.7	6287.6	5445.7	4938.1	4651.5	4585.8
15°	11267.4	10980.9	9941.9	8658.1	7189.2	5792.0	4705.2	3893.2	3505.0	3337.9	3385.6
17.5°	11285.4	10855.4	9458.2	7798.3	5989.0	4251.5	3212.5	2794.4	2693.0	2734.8	2734.8
20°	11267.4	10574.8	8873.0	6807.1	4585.8	2949.7	2358.6	2209.3	2275.0	2406.4	2376.5
22.5°	11171.9	10443.5	8335.7	5762.1	3373.7	2185.4	1892.8	1898.8	2000.3	2161.5	2197.3
25°	11243.6	10150.9	7654.9	4705.2	2460.1	1743.6	1642.0	1683.8	1791.3	1910.8	1934.6
27.5°	11189.9	9941.9	6944.4	3654.3	1797.3	1498.7	1492.8	1540.6	1588.3	1677.9	1677.9
30°	11249.6	9750.9	6245.8	2716.9	1480.8	1373.4	1349.5	1385.3	1433.0	1451.0	1445.0
32.5°	11470.5	9607.5	5439.7	2030.2	1307.7	1253.9	1253.9	1253.9	1247.9	1271.8	1277.9
35°	11954.1	9631.4	4729.1	1570.4	1194.2	1152.4	1134.5	1110.6	1098.7	1110.6	1116.6
37.5°	12479.6	9619.5	3994.7	1337.5	1110.6	1074.8	1033.0	997.2	991.2	1003.2	985.2
40°	12712.5	9732.9	3314.0	1200.2	1033.0	991.2	925.5	895.7	901.6	913.6	901.6
42.5°	13029.0	9768.7	2872.1	1092.7	961.4	895.7	853.9	818.1	812.0	830.0	824.0
45°	13023.0	9565.7	2406.4	1033.0	895.7	824.0	770.2	740.4	740.4	752.4	758.3
47.5°	13405.1	9535.8	2066.0	979.3	847.9	776.3	710.6	686.7	680.7	680.7	668.8
50°	14294.8	9953.8	1803.2	919.6	788.2	722.5	668.8	638.9	615.0	603.1	597.1
52.5°	16032.4	11255.5	1600.3	847.9	722.5	668.8	621.0	597.1	567.3	537.4	531.4
54°	17716.2	12599.0	1588.3	788.2	668.8	632.9	591.2	579.2	543.4	501.6	489.6
55°	18474.6	13381.2	1630.1	740.4	632.9	609.0	573.2	561.3	525.5	477.7	471.7
57.5°	19101.6	13685.7	1606.2	615.0	573.2	567.3	537.4	519.5	477.7	412.0	400.0
60°	15375.6	10347.9	1152.4	543.4	525.5	513.5	489.6	477.7	423.9	352.3	346.3
62.5°	9715.0	5953.2	734.5	477.7	459.8	441.8	412.0	400.0	352.3	280.6	262.7
65°	4138.0	2466.1	495.6	423.9	394.1	364.3	340.4	322.4	280.6	209.0	203.0
67.5°	1074.8	877.7	412.0	370.2	328.4	286.6	268.7	238.8	191.1	143.3	137.3
70°	483.7	441.8	346.3	310.5	262.7	221.0	197.1	167.2	125.4	95.5	89.6
72.5°	286.6	280.6	262.7	232.9	197.1	167.2	143.3	113.5	83.6	53.7	53.7
75°	179.2	173.2	179.2	161.2	137.3	125.4	107.5	77.6	47.8	23.9	23.9
77.5°	107.5	107.5	107.5	101.5	95.5	95.5	77.6	47.8	23.9	6.0	6.0
80°	83.6	83.6	89.6	83.6	83.6	83.6	65.7	35.9	12.0	0.0	0.0
82.5°	83.6	89.6	101.5	95.5	83.6	71.6	59.7	35.9	12.0	0.0	0.0
85°	23.9	17.9	29.8	41.8	59.7	53.7	41.8	29.8	12.0	0.0	0.0
87.5°	12.0	12.0	12.0	12.0	6.0	6.0	6.0	6.0	6.0	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)