

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: P647159

Luminaire Tested: **GALN-SA9C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647159  
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-SA9C-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1050mA 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: 29128.4 lumens  
Efficiency: N/A  
Efficacy: 60.6 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

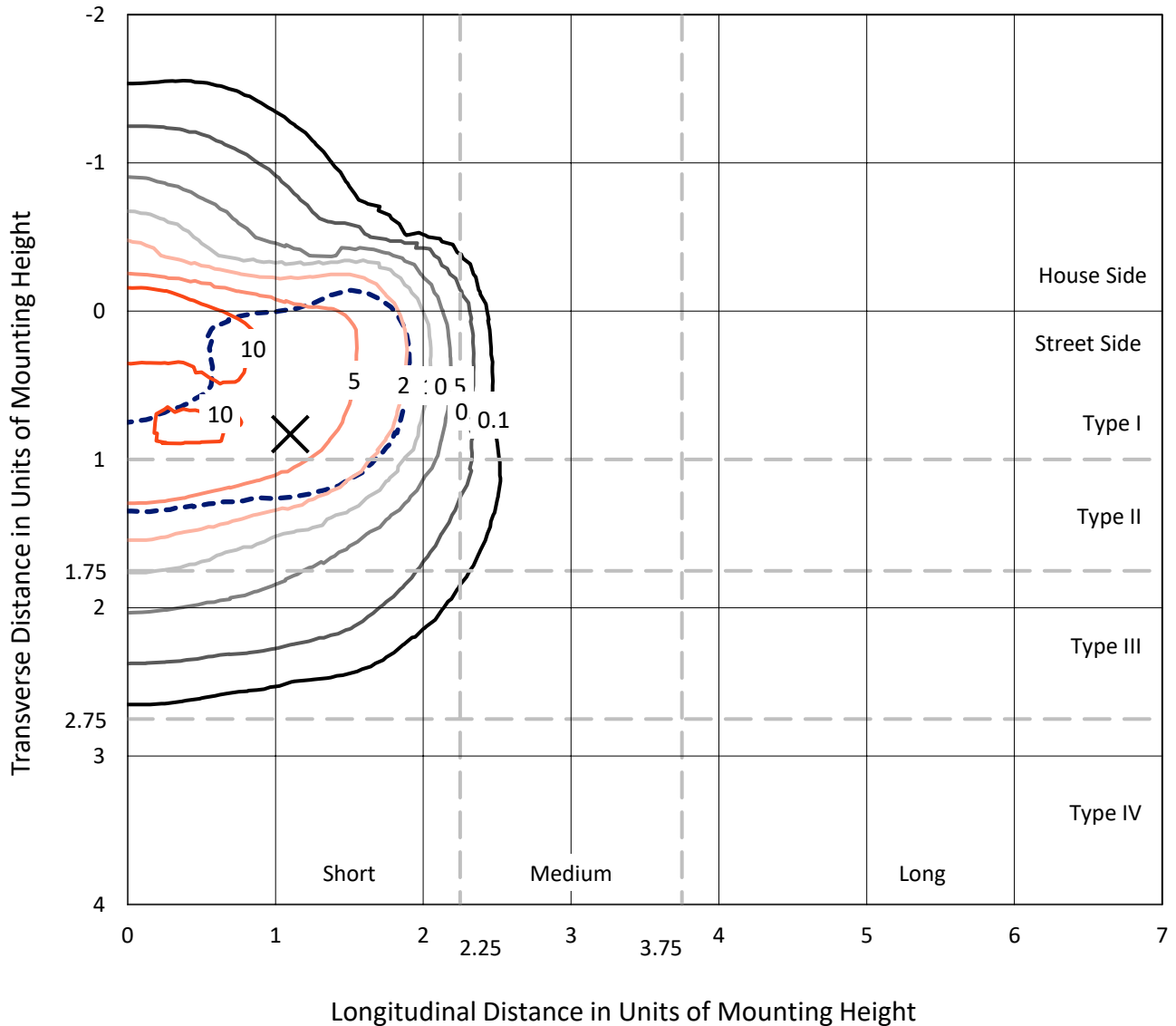
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

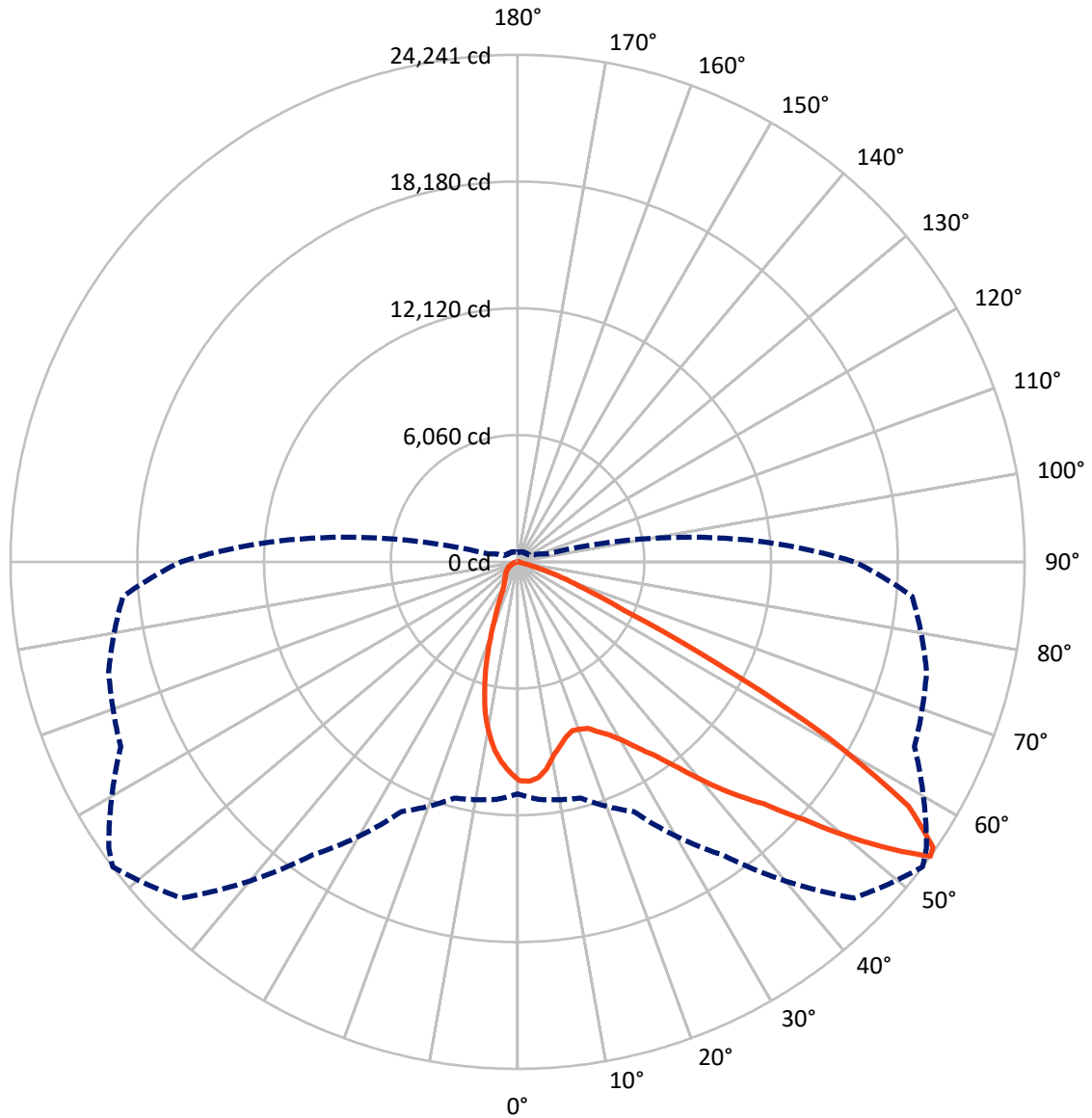
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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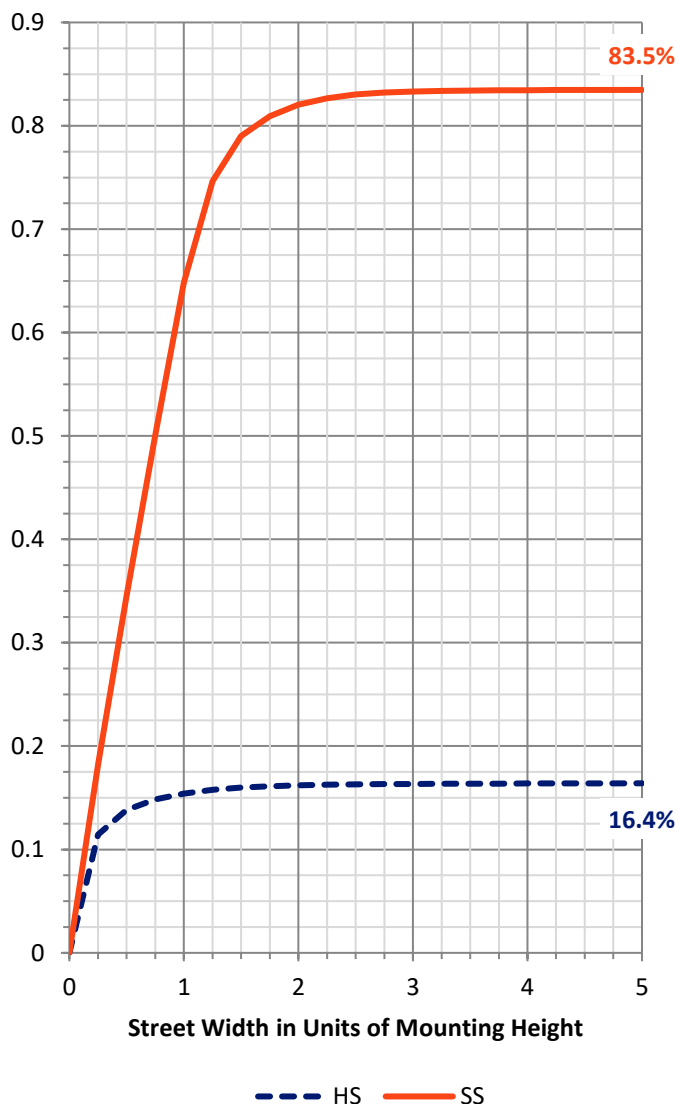
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4819.4	0.0	4819.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	24309.0	0.0	24309.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	29128.4	0.0	29128.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	897.7	3.1
10°-20°	2058.0	7.1
20°-30°	2924.9	10.0
30°-40°	4513.9	15.5
40°-50°	7077.4	24.3
50°-60°	8221.4	28.2
60°-70°	3106.5	10.7
70°-80°	295.4	1.0
80°-90°	33.3	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°	29128.4	100.0
0°-180°	29128.4	100.0

**Coefficient of Utilization**

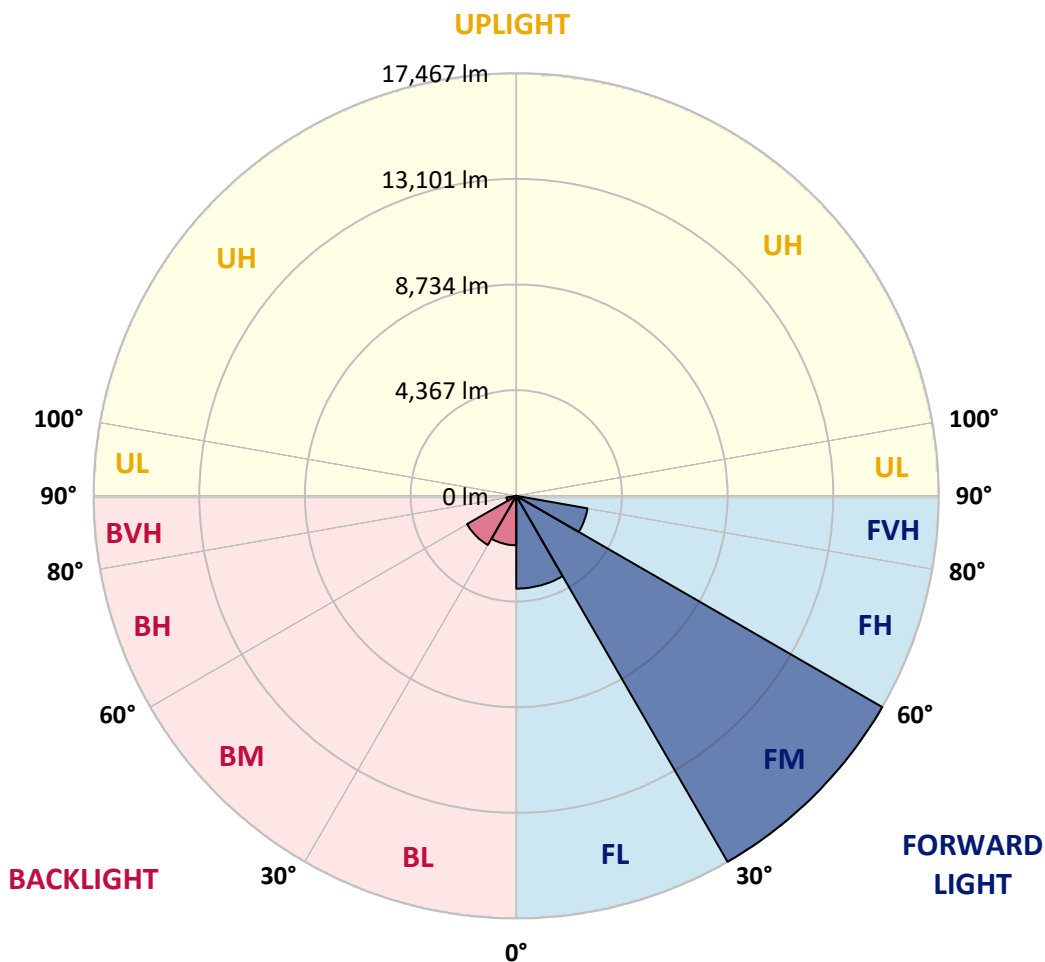


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3835.5	13.2			
FM (30°-60°)	17467.4	60.0			
FH (60°-80°)	2989.0	10.3			G2/5000
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	2045.1	7.0	B3/2500		
BM (30°-60°)	2345.2	8.1	B2/2500		
BH (60°-80°)	412.9	1.4	B1/500		G1/500
BVH (80°-90°)	16.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4
2.5°	10408.2	10315.9	10408.2	10419.0	10484.1	10543.8	10505.8	10592.7	10543.8	10489.5	10473.3
5°	9567.0	9691.8	9697.3	9892.7	9849.2	10207.3	10364.7	10321.3	10587.3	10571.0	10533.0
7.5°	8812.7	8763.9	8829.0	9057.0	9344.6	9757.0	9984.9	9979.5	10359.3	10630.6	10603.5
10°	8112.7	8107.3	8243.0	8422.0	8666.2	9100.3	9415.1	9572.5	10164.0	10576.4	10636.0
12.5°	7640.6	7618.9	7765.4	7911.9	8297.2	8633.7	9035.3	9111.2	9789.5	10386.4	10484.1
15°	7331.3	7380.2	7391.0	7673.2	7917.4	8362.4	8677.0	8834.4	9615.9	10234.5	10608.9
17.5°	7277.0	7342.1	7347.6	7580.9	7841.4	8215.9	8492.6	8704.2	9469.4	10310.5	10614.3
20°	7385.6	7347.6	7380.2	7526.7	7781.7	8139.8	8541.4	8612.0	9420.5	10348.4	10674.1
22.5°	7694.9	7684.0	7602.6	7722.0	7901.1	8275.5	8655.4	8763.9	9561.6	10543.8	10722.9
25°	8036.7	8096.5	8020.5	8004.2	8129.0	8498.0	9002.7	9143.8	10033.8	10896.5	10874.9
27.5°	8677.0	8617.4	8617.4	8541.4	8508.9	8687.9	9377.1	9610.5	10560.1	11352.4	11048.5
30°	9290.3	9355.4	9306.6	9333.7	9116.6	9100.3	9908.9	10196.5	11493.5	12047.0	11417.5
32.5°	10261.6	10174.9	10256.2	10185.7	9898.1	9605.1	10630.6	10929.1	12622.2	12844.7	11971.0
35°	11070.2	11032.2	11379.5	11368.7	10901.9	10614.3	11395.8	11840.8	13409.0	13799.7	12622.2
37.5°	12220.6	12150.1	12546.2	12736.1	12318.3	11889.6	12492.0	13007.5	14141.6	14564.9	13289.7
40°	13403.6	13582.7	14114.5	14429.3	13984.3	13414.5	13832.3	13989.7	14630.0	15064.1	13745.5
42.5°	14901.4	15161.9	15704.5	15975.8	15937.8	15319.2	15194.4	15188.9	14982.8	14923.0	14081.9
45°	16339.4	16241.7	17077.4	17668.9	18146.4	17967.3	16507.6	16344.8	15541.7	15134.7	14168.8
47.5°	16968.9	16936.3	17506.1	18558.9	20186.8	20409.3	18417.8	17788.3	16485.9	16024.6	14640.8
50°	16154.9	16323.1	16887.5	18054.2	20550.4	22248.9	20762.0	19915.5	17587.5	17110.0	15758.7
52.5°	13495.9	13609.9	14147.1	15628.5	19313.2	23334.3	23008.6	22520.3	19611.6	18819.3	17706.9
54°	11097.3	11401.2	11694.3	13181.1	17110.0	22731.9	24240.5	23866.1	20930.3	20241.1	18933.3
55°	9664.7	9843.8	10055.4	11536.9	15585.1	21711.7	24099.4	24132.0	21814.8	20686.1	19758.1
57.5°	7060.0	7184.8	6967.7	7624.3	10701.2	17630.9	22042.7	22921.9	23008.6	21353.6	20262.8
60°	5394.0	5448.3	5204.1	5307.2	6653.0	12101.3	17050.3	18108.4	20756.6	18661.9	17164.2
62.5°	4183.9	4194.8	4189.3	4368.4	4585.5	7119.7	10663.2	11602.0	14309.9	13251.6	11656.3
65°	3082.3	3033.4	3120.3	3663.0	3912.6	4476.9	5616.5	6300.3	7776.3	6566.2	4694.0
67.5°	1997.0	2013.2	2100.1	2724.1	3353.6	3435.0	3456.7	3402.4	3407.9	1877.6	1177.6
70°	1199.2	1226.4	1199.2	1541.2	2398.6	2463.6	2252.1	2197.7	1714.8	445.0	439.6
72.5°	710.9	672.9	602.4	662.0	998.5	1193.8	1074.4	1069.0	672.9	260.5	260.5
75°	298.5	271.3	222.5	200.8	265.9	255.0	255.0	227.9	179.1	173.7	162.8
77.5°	59.7	59.7	43.4	48.9	65.1	76.0	92.2	92.2	108.5	108.5	103.1
80°	0.0	5.4	16.3	32.6	48.9	70.5	81.4	81.4	92.2	92.2	76.0
82.5°	0.0	5.4	16.3	32.6	43.4	65.1	81.4	81.4	92.2	97.6	81.4
85°	0.0	5.4	16.3	27.2	43.4	54.3	54.3	48.9	38.0	32.6	21.7
87.5°	0.0	0.0	5.4	10.9	5.4	10.9	10.9	10.9	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GALN-SA9C-835-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4	10462.4
2.5°	10511.2	10505.8	10375.6	10164.0	10115.1	9936.0	9914.3	9805.8	9865.5	9664.7	9643.0
5°	10424.5	10359.3	10201.9	10066.2	9670.1	9387.9	9165.5	8894.2	8736.8	8763.9	8660.8
7.5°	10549.3	10381.0	10104.3	9632.2	9149.2	8655.4	8389.5	7836.0	7635.2	7336.7	7293.3
10°	10419.0	10294.2	9865.5	9084.1	8416.6	7705.7	7081.7	6468.4	6001.8	5801.0	5757.6
12.5°	10408.2	10191.1	9474.8	8606.5	7640.6	6620.4	5714.2	4949.0	4487.8	4227.3	4167.6
15°	10239.9	9979.5	9035.3	7868.5	6533.6	5263.8	4276.1	3538.1	3185.4	3033.4	3076.9
17.5°	10256.2	9865.5	8595.7	7087.1	5442.9	3863.7	2919.5	2539.7	2447.3	2485.4	2485.4
20°	10239.9	9610.5	8063.9	6186.3	4167.6	2680.8	2143.5	2007.8	2067.5	2186.9	2159.7
22.5°	10153.1	9491.1	7575.5	5236.6	3066.0	1986.2	1720.3	1725.7	1817.9	1964.4	1997.0
25°	10218.2	9225.1	6956.9	4276.1	2235.8	1584.6	1492.3	1530.3	1627.9	1736.5	1758.2
27.5°	10169.4	9035.3	6311.1	3321.1	1633.4	1362.1	1356.6	1400.1	1443.5	1524.9	1524.9
30°	10223.6	8861.6	5676.2	2469.1	1345.8	1248.1	1226.4	1259.0	1302.4	1318.7	1313.2
32.5°	10424.5	8731.3	4943.6	1845.1	1188.4	1139.6	1139.6	1139.6	1134.2	1155.9	1161.3
35°	10864.0	8753.1	4297.8	1427.2	1085.3	1047.3	1031.1	1009.4	998.5	1009.4	1014.8
37.5°	11341.5	8742.2	3630.4	1215.5	1009.4	976.8	938.8	906.2	900.8	911.6	895.4
40°	11553.2	8845.3	3011.7	1090.7	938.8	900.8	841.1	814.0	819.4	830.3	819.4
42.5°	11840.8	8877.9	2610.2	993.1	873.7	814.0	776.0	743.5	738.0	754.3	748.9
45°	11835.4	8693.3	2186.9	938.8	814.0	748.9	700.0	672.9	672.9	683.7	689.2
47.5°	12182.6	8666.2	1877.6	890.0	770.6	705.5	645.7	624.1	618.6	618.6	607.8
50°	12991.2	9046.1	1638.8	835.7	716.3	656.6	607.8	580.7	558.9	548.1	542.6
52.5°	14570.3	10229.1	1454.3	770.6	656.6	607.8	564.4	542.6	515.5	488.4	483.0
54°	16100.6	11450.0	1443.5	716.3	607.8	575.2	537.2	526.4	493.8	455.9	445.0
55°	16789.8	12160.9	1481.4	672.9	575.2	553.5	520.9	510.1	477.6	434.1	428.7
57.5°	17359.6	12437.7	1459.7	558.9	520.9	515.5	488.4	472.1	434.1	374.4	363.5
60°	13973.4	9404.2	1047.3	493.8	477.6	466.7	445.0	434.1	385.3	320.2	314.8
62.5°	8829.0	5410.3	667.4	434.1	417.8	401.6	374.4	363.5	320.2	255.0	238.7
65°	3760.6	2241.2	450.4	385.3	358.1	331.1	309.3	293.0	255.0	190.0	184.5
67.5°	976.8	797.7	374.4	336.5	298.5	260.5	244.2	217.0	173.7	130.2	124.8
70°	439.6	401.6	314.8	282.2	238.7	200.8	179.1	152.0	113.9	86.8	81.4
72.5°	260.5	255.0	238.7	211.6	179.1	152.0	130.2	103.1	76.0	48.9	48.9
75°	162.8	157.4	162.8	146.5	124.8	113.9	97.6	70.5	43.4	21.7	21.7
77.5°	97.6	97.6	97.6	92.2	86.8	86.8	70.5	43.4	21.7	5.4	5.4
80°	76.0	76.0	81.4	76.0	76.0	76.0	59.7	32.6	10.9	0.0	0.0
82.5°	76.0	81.4	92.2	86.8	76.0	65.1	54.3	32.6	10.9	0.0	0.0
85°	21.7	16.3	27.2	38.0	54.3	48.9	38.0	27.2	10.9	0.0	0.0
87.5°	10.9	10.9	10.9	10.9	5.4	5.4	5.4	5.4	5.4	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)