

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: P647010

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
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-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23443 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

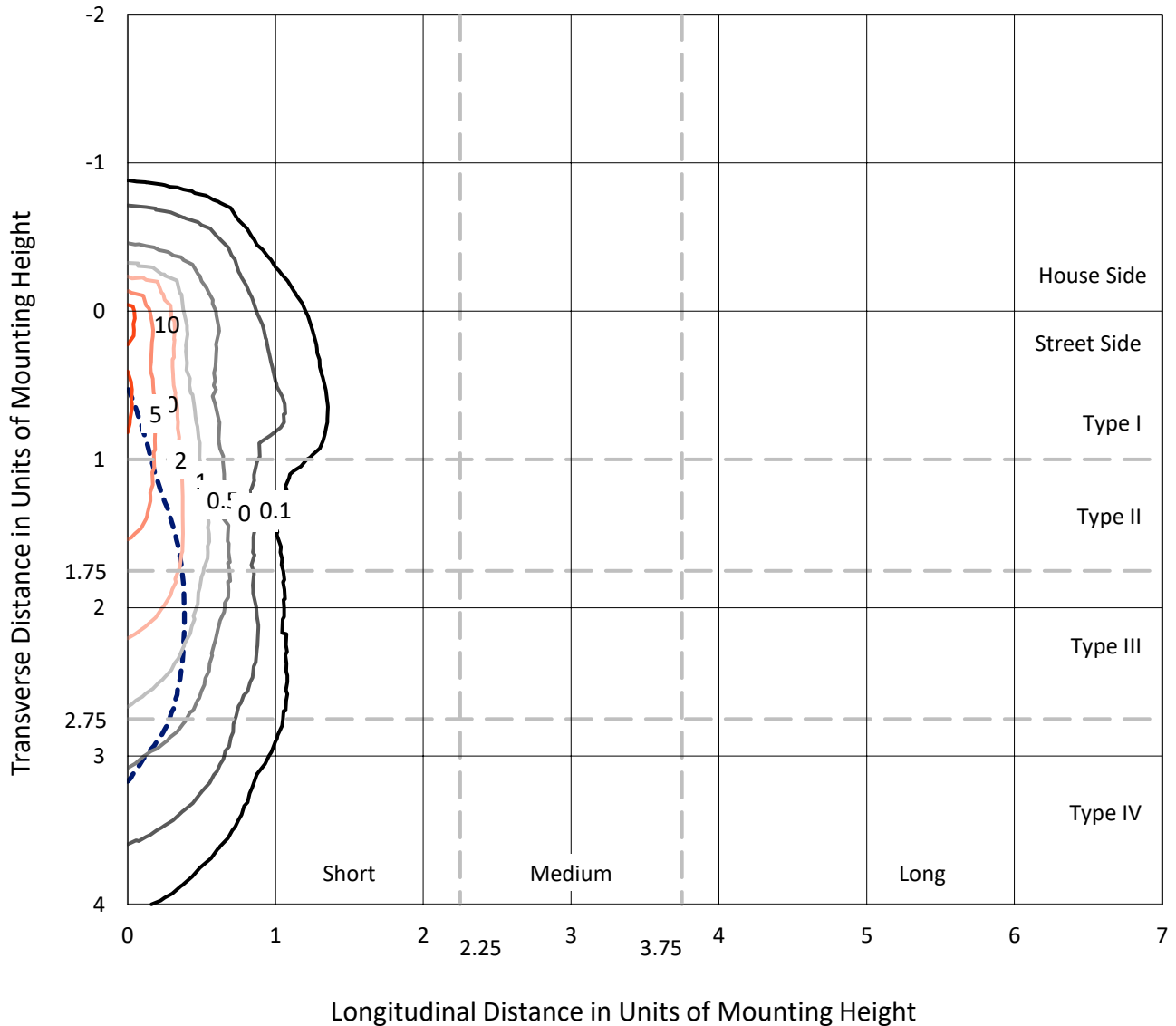
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

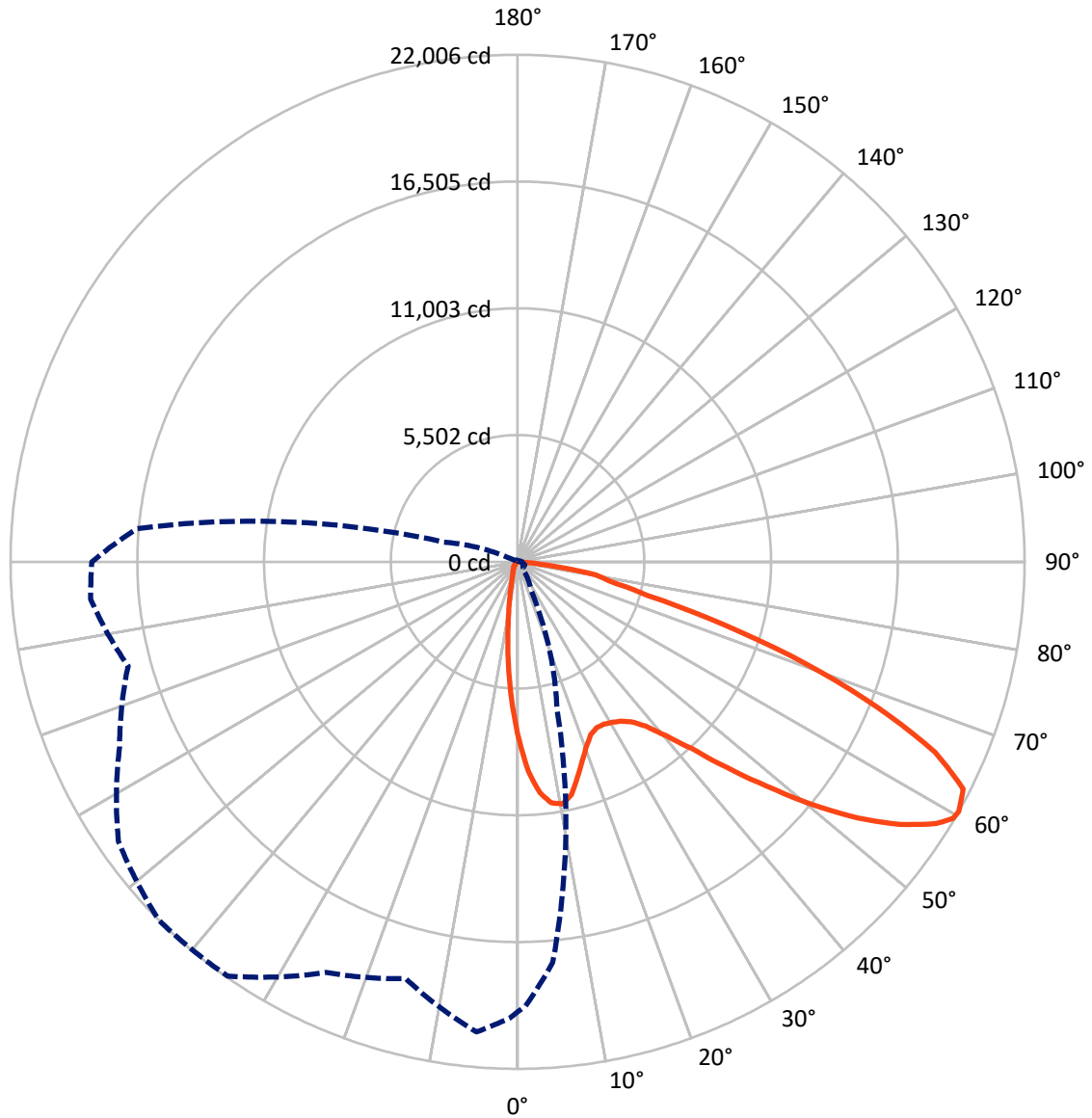
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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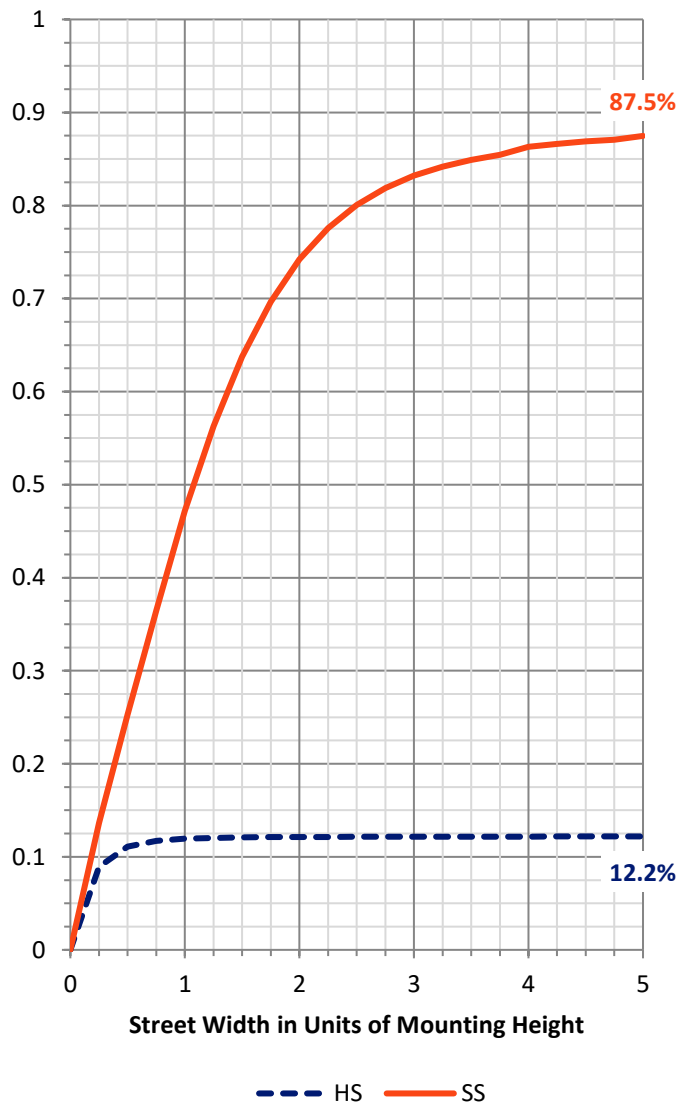
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2891.5	0.0	2891.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	20551.6	0.0	20551.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	23443.0	0.0	23443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.3	2.5
10°-20°	1144.5	4.9
20°-30°	1678.2	7.2
30°-40°	2495.7	10.6
40°-50°	3632.1	15.5
50°-60°	5237.7	22.3
60°-70°	5760.9	24.6
70°-80°	2580.4	11.0
80°-90°	337.2	1.4
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°	23443.0	100.0
0°-180°	23443.0	100.0

**Coefficient of Utilization**



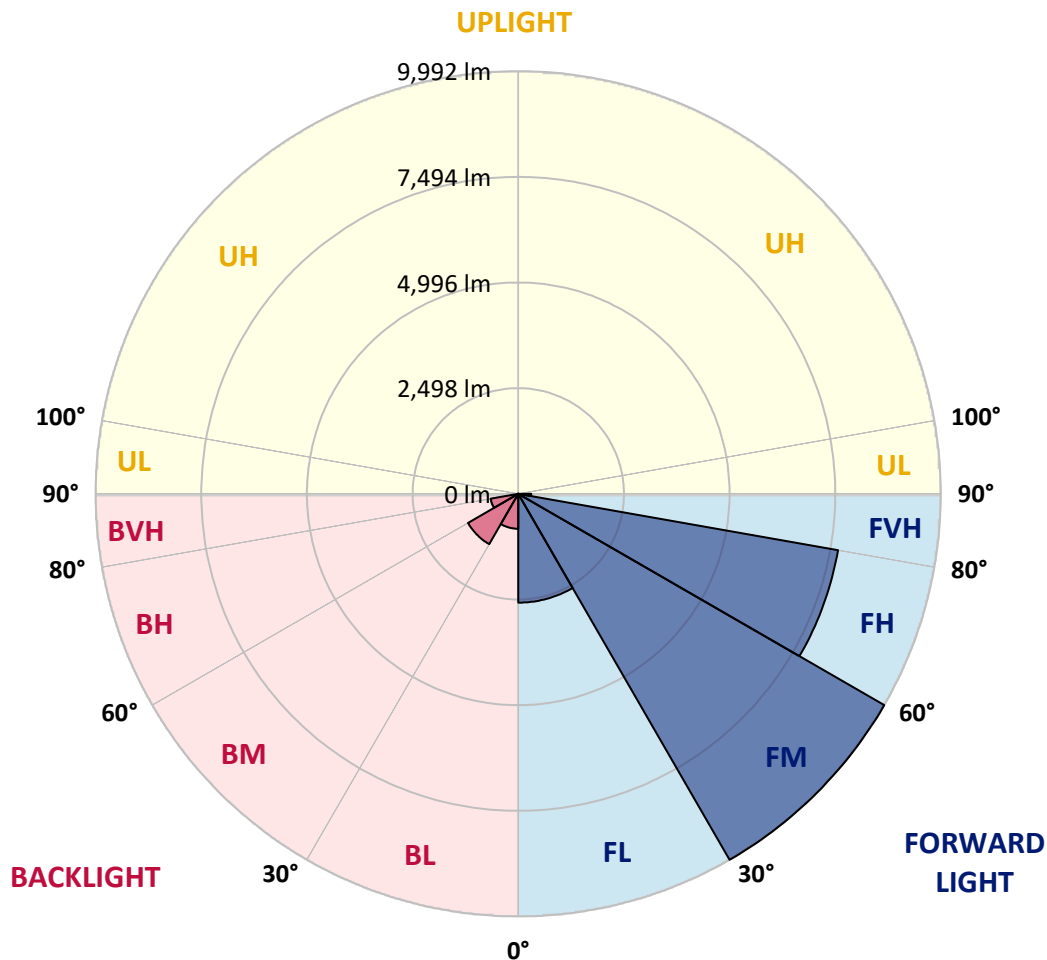
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2572.8	11.0			
FM (30°-60°)	9992.1	42.6			
FH (60°-80°)	7678.3	32.8			G4/12000
FVH (80°-90°)	308.3	1.3			G3/500
BL (0°-30°)	826.2	3.5	B2/1000		
BM (30°-60°)	1373.4	5.9	B2/2500		
BH (60°-80°)	663.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.8	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3
2.5°	8518.1	8480.7	8395.1	8135.0	7908.6	7612.8	7313.5	7078.2	6933.9	6668.3	6547.1
5°	8252.6	8270.4	8022.7	7488.1	6892.9	6486.6	6042.9	5690.0	5301.5	5055.6	4797.2
7.5°	7559.4	7523.7	7254.7	6509.7	5786.2	5198.2	4636.8	4180.7	3893.7	3663.8	3471.4
10°	6966.0	6939.2	6595.3	5636.6	4859.6	4419.4	4039.9	3640.7	3332.4	2995.6	2726.5
12.5°	6593.5	6532.9	6137.3	5135.8	4503.2	4093.3	3679.9	3264.6	2838.8	2498.4	2172.3
15°	6468.8	6381.4	5941.2	4963.0	4275.1	3754.7	3236.1	2758.6	2268.5	1892.5	1646.6
17.5°	6695.0	6550.7	6082.0	4932.7	4002.5	3312.8	2674.8	2052.9	1543.2	1256.3	1104.9
20°	7213.6	7047.9	6438.5	4902.4	3699.5	2817.4	2033.3	1450.6	1067.5	910.6	826.8
22.5°	7983.5	7755.4	6966.0	4950.4	3419.7	2334.4	1468.4	1024.6	848.2	750.3	691.4
25°	8908.3	8717.7	7634.2	5121.5	3198.7	1954.9	1135.1	837.6	714.6	654.0	609.5
27.5°	9922.3	9617.6	8498.5	5326.5	2997.4	1660.8	996.1	748.5	636.2	580.9	557.8
30°	10644.0	10407.0	9222.0	5469.0	2746.1	1439.9	910.6	737.7	638.0	572.1	529.2
32.5°	11356.9	11053.9	9827.9	5534.9	2562.5	1286.6	787.6	643.3	559.5	525.7	483.0
35°	12119.6	11802.4	10432.0	5499.3	2425.3	1185.1	714.6	573.8	479.4	422.4	379.6
37.5°	12891.2	12556.2	11032.5	5371.1	2339.8	1144.0	657.6	545.3	452.7	393.8	347.5
40°	13807.1	13359.9	11595.7	5265.9	2250.7	1122.7	620.1	527.5	433.0	370.7	324.3
42.5°	14555.6	14129.7	12128.5	5210.6	2190.1	1072.8	620.1	513.3	420.5	351.1	302.9
45°	15264.8	14822.9	12704.1	5255.2	2165.2	1010.4	627.3	511.5	411.6	336.8	288.7
47.5°	15858.3	15475.1	13295.7	5422.7	2133.0	942.7	589.8	536.4	406.3	324.3	274.4
50°	16558.6	16187.9	14078.0	5761.3	2076.0	875.0	543.5	577.4	404.5	313.7	262.0
52.5°	17545.9	17144.9	15157.9	6146.2	1985.1	771.6	500.7	572.1	397.4	295.8	249.5
55°	18752.3	18427.9	16408.9	6607.7	1860.4	655.8	433.0	507.9	376.0	265.5	228.1
57.5°	19525.7	19249.4	17346.3	6807.3	1669.7	536.4	381.3	425.9	343.9	237.0	203.2
59°	19616.6	19367.0	17542.3	6741.4	1545.0	490.1	356.4	365.3	335.0	221.0	188.9
60°	19539.9	19281.5	17463.9	6613.1	1429.2	458.0	335.0	324.3	336.8	212.0	178.2
62.5°	19048.1	18606.1	16703.0	5962.6	1249.2	420.5	297.6	265.5	297.6	190.7	158.6
65°	18098.3	17435.4	15197.1	5046.7	1177.9	399.2	253.1	222.8	226.3	167.5	137.2
67.5°	16439.2	15603.4	13192.4	4100.4	1147.6	401.0	213.8	199.6	174.6	142.6	121.2
70°	13816.0	12982.1	10585.2	3373.4	1133.4	401.0	181.7	171.1	146.1	119.4	105.2
72.5°	9790.5	8892.3	7140.6	2649.9	1021.1	399.2	155.0	155.0	119.4	99.8	85.5
75°	5531.4	5538.6	4488.9	1874.7	848.2	329.6	124.7	122.9	87.3	76.7	64.1
77.5°	3223.7	3166.7	3025.9	805.5	393.8	149.7	87.3	74.9	60.6	55.3	46.4
80°	1657.3	1363.3	1327.6	292.2	140.8	94.4	60.6	42.8	39.2	35.6	32.1
82.5°	490.1	491.8	438.4	117.6	78.4	62.4	30.3	23.2	21.4	19.6	19.6
85°	33.8	21.4	25.0	35.6	48.1	25.0	1.8	5.3	5.3	7.1	8.9
87.5°	3.6	1.8	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3
2.5°	6413.6	6491.9	6345.8	6349.3	6228.2	6267.4	6124.9	6171.1	6087.4	6151.6	6340.4
5°	4825.7	4843.6	4726.0	4688.5	4706.3	4779.4	4807.9	4677.8	4733.1	4624.4	4617.2
7.5°	3400.1	3421.5	3353.7	3344.9	3473.2	3442.9	3498.1	3364.5	3237.9	3293.2	3191.6
10°	2641.0	2551.9	2412.9	2373.7	2348.7	2364.7	2364.7	2243.6	2225.8	2177.6	2250.7
12.5°	2085.0	1976.3	1844.4	1666.2	1621.7	1618.1	1552.1	1445.3	1411.4	1370.4	1430.9
15°	1514.7	1470.2	1359.7	1259.9	1158.3	1138.7	1031.8	944.5	828.6	812.6	807.3
17.5°	1065.7	999.7	997.9	940.9	882.1	842.9	743.1	643.3	598.8	593.4	593.4
20°	798.3	775.2	737.7	730.6	712.8	668.3	579.2	525.7	504.3	506.1	513.3
22.5°	671.8	655.8	621.9	605.9	598.8	559.5	493.6	458.0	447.3	447.3	449.1
25°	600.6	586.3	548.9	523.9	515.0	486.5	434.8	408.1	399.2	399.2	399.2
27.5°	547.1	529.2	490.1	468.7	452.7	420.5	388.4	361.7	352.8	352.8	354.6
30°	509.7	490.1	454.5	425.9	401.0	372.5	345.7	322.5	311.9	310.1	311.9
32.5°	459.8	441.9	406.3	388.4	359.9	326.1	304.7	283.4	272.6	274.4	272.6
35°	358.2	352.8	327.9	333.2	317.2	288.7	269.1	245.9	233.4	231.7	235.2
37.5°	326.1	304.7	276.2	278.0	272.6	262.0	229.9	204.9	196.0	196.0	197.8
40°	301.1	279.8	247.7	231.7	233.4	233.4	199.6	172.9	164.0	162.2	165.8
42.5°	279.8	258.4	222.8	196.0	188.9	197.8	169.3	142.6	133.7	130.1	133.7
45°	265.5	242.3	201.4	171.1	149.7	160.4	139.0	117.6	107.0	107.0	105.2
47.5°	251.3	229.9	185.3	147.9	124.7	119.4	114.1	94.4	83.8	82.0	83.8
50°	238.8	217.4	167.5	128.3	105.2	92.6	92.6	74.9	67.7	64.1	65.9
52.5°	226.3	203.2	151.5	114.1	90.9	74.9	65.9	60.6	55.3	53.5	55.3
55°	208.5	185.3	135.5	98.0	78.4	62.4	51.7	49.9	46.4	42.8	46.4
57.5°	187.1	165.8	119.4	83.8	62.4	48.1	42.8	41.0	37.4	35.6	35.6
59°	174.6	155.0	110.5	73.1	55.3	42.8	39.2	37.4	33.8	30.3	32.1
60°	167.5	151.5	105.2	67.7	49.9	39.2	35.6	33.8	30.3	28.5	30.3
62.5°	147.9	135.5	92.6	55.3	39.2	28.5	25.0	26.7	25.0	23.2	25.0
65°	130.1	119.4	78.4	42.8	30.3	19.6	17.9	23.2	21.4	19.6	21.4
67.5°	115.8	103.4	65.9	32.1	21.4	10.7	12.4	19.6	19.6	17.9	19.6
70°	99.8	89.1	53.5	23.2	10.7	5.3	8.9	14.3	17.9	16.1	17.9
72.5°	82.0	69.5	41.0	16.1	5.3	0.0	5.3	12.4	17.9	16.1	17.9
75°	64.1	51.7	30.3	8.9	0.0	0.0	1.8	10.7	17.9	16.1	17.9
77.5°	46.4	37.4	17.9	1.8	0.0	0.0	1.8	10.7	17.9	16.1	17.9
80°	30.3	26.7	7.1	0.0	0.0	0.0	1.8	10.7	17.9	17.9	19.6
82.5°	19.6	14.3	0.0	0.0	0.0	0.0	3.6	14.3	19.6	21.4	21.4
85°	8.9	0.0	0.0	0.0	0.0	0.0	7.1	17.9	23.2	23.2	23.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	12.4	21.4	26.7	26.7	26.7
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3
2.5°	6372.5	6484.8	6643.4	6887.5	7085.4	7397.2	7636.0	7962.1	8291.7	8391.6	8546.6
5°	4690.3	4834.6	5194.6	5522.5	5729.2	6388.6	6805.5	7463.2	8053.0	8336.3	8644.6
7.5°	3257.5	3428.6	3703.0	4161.0	4595.8	5132.3	5805.9	6557.9	7422.1	7826.6	8261.5
10°	2286.4	2500.2	2886.9	3262.9	3810.0	4319.7	4984.3	5814.8	6768.2	7245.7	7791.0
12.5°	1443.5	1634.1	2145.6	2567.9	3250.4	3842.0	4455.0	5207.1	6311.9	6802.0	7374.1
15°	825.0	985.5	1224.2	1766.0	2523.4	3305.7	4070.1	4943.3	6078.5	6682.6	7300.9
17.5°	614.8	657.6	764.5	1071.0	1760.7	2674.8	3715.5	4863.1	6237.1	6946.3	7652.0
20°	516.8	545.3	595.2	716.4	1122.7	2060.0	3369.8	4877.4	6750.3	7641.3	8311.4
22.5°	463.3	481.2	522.1	600.6	766.2	1500.5	2965.3	4961.2	7372.3	8494.9	9268.3
25°	406.3	429.5	465.1	532.8	638.0	1040.7	2566.1	5148.3	8243.7	9578.4	10305.5
27.5°	361.7	383.1	418.7	481.2	559.5	794.7	2101.0	5308.7	9163.2	10669.0	11264.2
30°	317.2	338.6	374.2	424.2	495.4	643.3	1600.3	5403.1	10056.0	11486.9	11944.9
32.5°	279.8	297.6	331.4	376.0	434.8	545.3	1261.6	5305.1	10738.5	12230.1	12536.5
35°	242.3	263.7	292.2	333.2	384.9	465.1	1049.6	4966.5	11324.8	12994.5	13105.0
37.5°	203.2	228.1	258.4	295.8	336.8	427.7	842.9	4592.3	11952.0	13947.9	13766.2
40°	171.1	194.3	222.8	263.7	301.1	392.0	648.6	4193.1	12629.2	14842.5	14487.8
42.5°	139.0	164.0	197.8	235.2	297.6	342.2	502.5	3779.7	13236.9	15621.2	15140.1
45°	110.5	131.9	167.5	215.6	295.8	294.0	388.4	3371.6	13694.9	16177.2	15626.6
47.5°	87.3	105.2	140.8	210.3	272.6	249.5	311.9	3118.5	14176.1	16678.0	15999.0
50°	69.5	87.3	121.2	219.2	238.8	213.8	262.0	3159.6	14641.2	16932.8	16152.3
52.5°	58.8	76.7	105.2	172.9	183.5	187.1	229.9	3348.4	15241.6	17205.5	16457.0
55°	51.7	67.7	89.1	121.2	142.6	167.5	210.3	3485.7	16045.4	17790.0	17128.8
57.5°	41.0	58.8	80.2	103.4	117.6	146.1	194.3	3496.3	16772.4	18540.2	18021.6
59°	37.4	53.5	74.9	98.0	105.2	131.9	183.5	3405.4	16799.2	18652.5	18431.5
60°	33.8	51.7	71.3	90.9	99.8	124.7	174.6	3300.3	16556.8	18474.3	18600.8
62.5°	28.5	44.6	62.4	73.1	85.5	103.4	151.5	2918.9	15382.4	17667.0	18287.1
65°	25.0	39.2	53.5	60.6	71.3	89.1	133.7	2336.2	14085.2	16572.8	17389.0
67.5°	23.2	35.6	46.4	51.7	62.4	82.0	119.4	1650.2	12404.7	15184.6	16040.0
70°	21.4	33.8	41.0	48.1	55.3	69.5	101.6	962.3	9555.3	12750.4	13653.9
72.5°	21.4	32.1	35.6	41.0	48.1	62.4	94.4	520.4	6532.9	9726.3	10893.6
75°	21.4	30.3	32.1	35.6	42.8	57.0	83.8	272.6	4223.4	6757.4	8339.9
77.5°	21.4	28.5	32.1	33.8	41.0	49.9	73.1	171.1	2813.8	4733.1	5636.6
80°	23.2	28.5	30.3	33.8	39.2	46.4	60.6	114.1	1653.7	2847.7	3430.4
82.5°	25.0	28.5	32.1	35.6	41.0	44.6	53.5	71.3	762.7	1883.6	2131.3
85°	26.7	30.3	33.8	37.4	42.8	44.6	49.9	51.7	124.7	850.0	1149.4
87.5°	28.5	32.1	35.6	39.2	46.4	46.4	46.4	46.4	42.8	90.9	231.7
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: P647010

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3	7748.3
2.5°	8742.6	8944.0	9084.8	9120.4	9018.8	8972.5	8844.2	8644.6	8523.4	8518.1
5°	9213.1	9685.3	10013.2	10068.4	9872.5	9540.9	9147.2	8639.2	8341.7	8252.6
7.5°	9132.9	9959.8	10487.3	10563.8	10234.2	9601.5	8838.8	8020.9	7696.6	7559.4
10°	8803.2	9811.9	10565.6	10686.9	10246.7	9355.7	8386.2	7473.8	7071.1	6966.0
12.5°	8521.6	9540.9	10211.0	10378.5	10045.3	9156.1	8115.3	7122.8	6691.5	6593.5
15°	8398.7	9220.2	9630.0	9715.6	9660.3	9031.3	8086.8	7069.3	6575.7	6468.8
17.5°	8521.6	8947.6	8999.3	9086.6	9209.5	9018.8	8361.3	7359.8	6827.0	6695.0
20°	8844.2	8710.6	8496.7	8534.2	8815.7	9070.5	8849.5	8003.1	7354.4	7213.6
22.5°	9393.1	8651.8	8167.0	8135.0	8491.3	9243.4	9565.9	8874.5	8122.5	7983.5
25°	10066.6	8799.7	8045.9	7976.3	8364.9	9496.5	10344.7	9941.9	9120.4	8908.3
27.5°	10800.9	9106.1	8045.9	7978.1	8354.1	9720.9	11011.2	10886.4	10154.0	9922.3
30°	11203.6	9359.2	8161.7	8085.0	8486.0	9851.1	11367.5	11725.7	10930.9	10644.0
32.5°	11563.6	9710.3	8388.0	8243.7	8762.2	10043.5	11686.5	12438.6	11549.3	11356.9
35°	11895.0	10086.3	8699.8	8532.4	9125.8	10307.3	12039.4	13187.0	12410.0	12119.6
37.5°	12260.4	10522.9	9186.3	9043.8	9733.4	10820.4	12458.2	14170.7	13256.5	12891.2
40°	12657.7	11028.9	9986.5	9925.9	10699.3	11401.4	12987.4	15220.3	14222.3	13807.1
42.5°	13062.2	11611.7	10966.6	11066.4	11793.5	12215.8	13530.9	16027.5	15013.6	14555.6
45°	13429.4	12356.6	12240.7	12734.4	13069.4	13010.6	13933.6	16596.0	15703.2	15264.8
47.5°	13892.7	13441.8	13782.2	14543.1	14552.1	13874.8	14238.4	17061.1	16296.7	15858.3
50°	14411.3	14723.1	15772.8	16547.9	16339.4	14724.9	14594.8	17611.8	16909.7	16558.6
52.5°	15011.8	16157.7	17611.8	18472.5	17986.0	15651.5	15188.2	18206.9	17882.6	17545.9
55°	15710.3	17136.0	19445.5	20131.6	19641.5	16802.7	16089.9	19014.2	18982.1	18752.3
57.5°	16499.8	18169.5	20507.6	21436.0	20999.4	18153.5	17349.8	19775.1	19654.0	19525.7
59°	17123.5	18700.6	20976.3	21938.6	21674.8	19099.8	18196.3	20249.2	19809.0	19616.6
60°	17501.3	19060.6	21149.1	22006.2	21945.7	19662.9	18732.6	20480.9	19807.2	19539.9
62.5°	18622.2	19689.6	21083.1	21705.1	21942.1	20742.8	20306.2	20735.6	19440.2	19048.1
65°	19021.3	19481.1	19990.8	19914.1	20117.3	20687.6	21311.2	20455.9	18656.1	18098.3
67.5°	18244.4	17194.8	17374.8	16863.3	16763.6	18392.3	20903.2	19087.3	17121.7	16439.2
70°	15378.9	13172.7	13081.9	13317.1	12672.0	14890.6	18770.1	16451.7	14589.5	13816.0
72.5°	12105.3	9309.3	8543.0	9409.1	9389.5	11360.4	15592.7	11674.1	9856.4	9790.5
75°	9519.6	6481.2	5688.3	5829.0	6099.9	8224.1	12418.9	7413.2	6069.6	5531.4
77.5°	6390.4	4592.3	4284.0	4111.1	4403.4	5280.2	7856.9	4020.2	3403.7	3223.7
80°	3683.5	3336.0	3788.6	3439.3	3596.2	3327.0	3908.0	1844.4	1530.8	1657.3
82.5°	2396.8	1899.6	2024.4	1504.1	2056.5	2074.2	1254.5	545.3	461.6	490.1
85°	1498.7	891.0	500.7	356.4	709.2	1304.5	392.0	33.8	39.2	33.8
87.5°	388.4	147.9	62.4	92.6	114.1	101.6	90.9	5.3	1.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)