

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: P646898

Luminaire Tested: **GALN-SA4C-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12038.6 lumens  
Efficiency: N/A  
Efficacy: 56.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

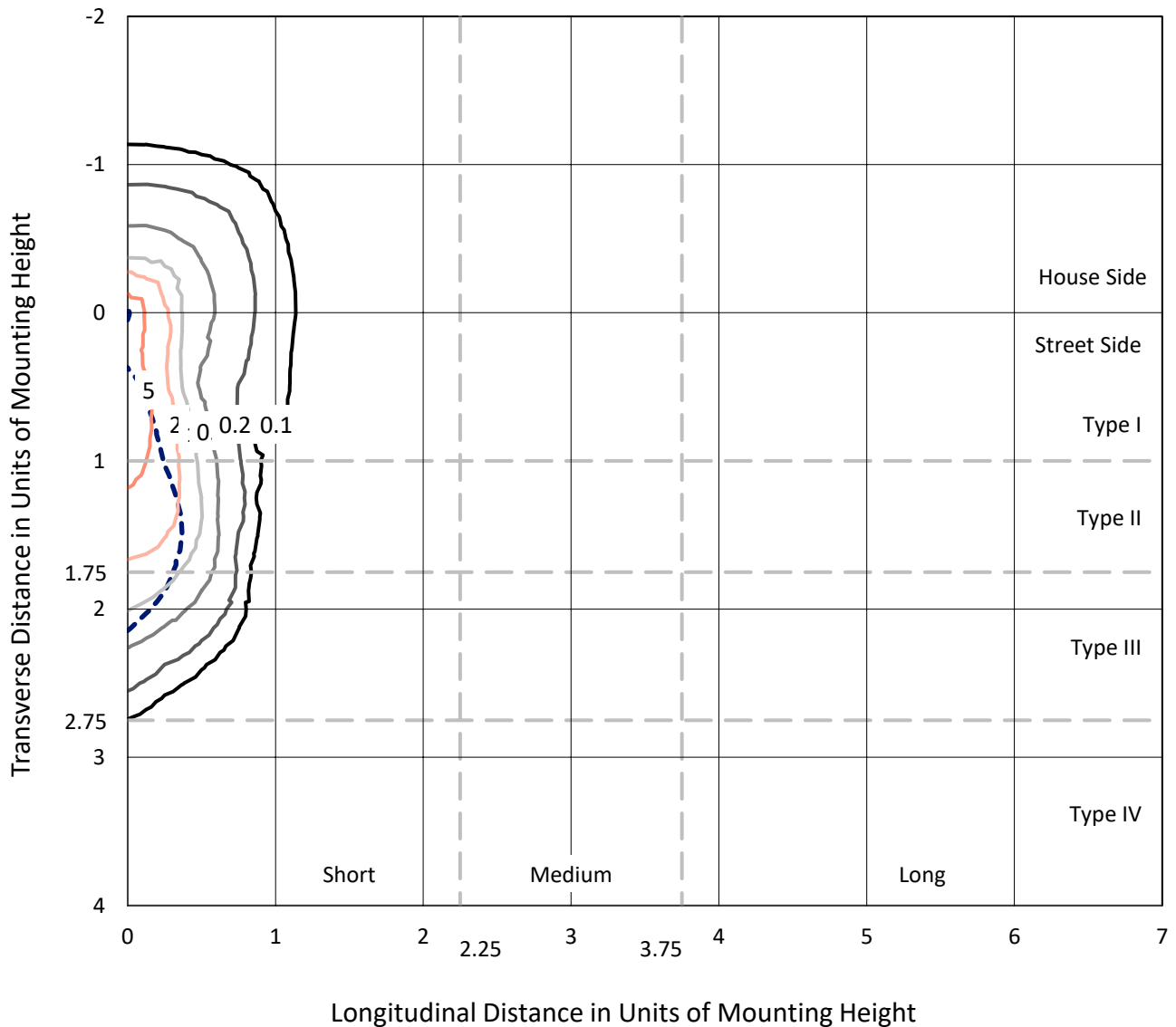
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646898  
 CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

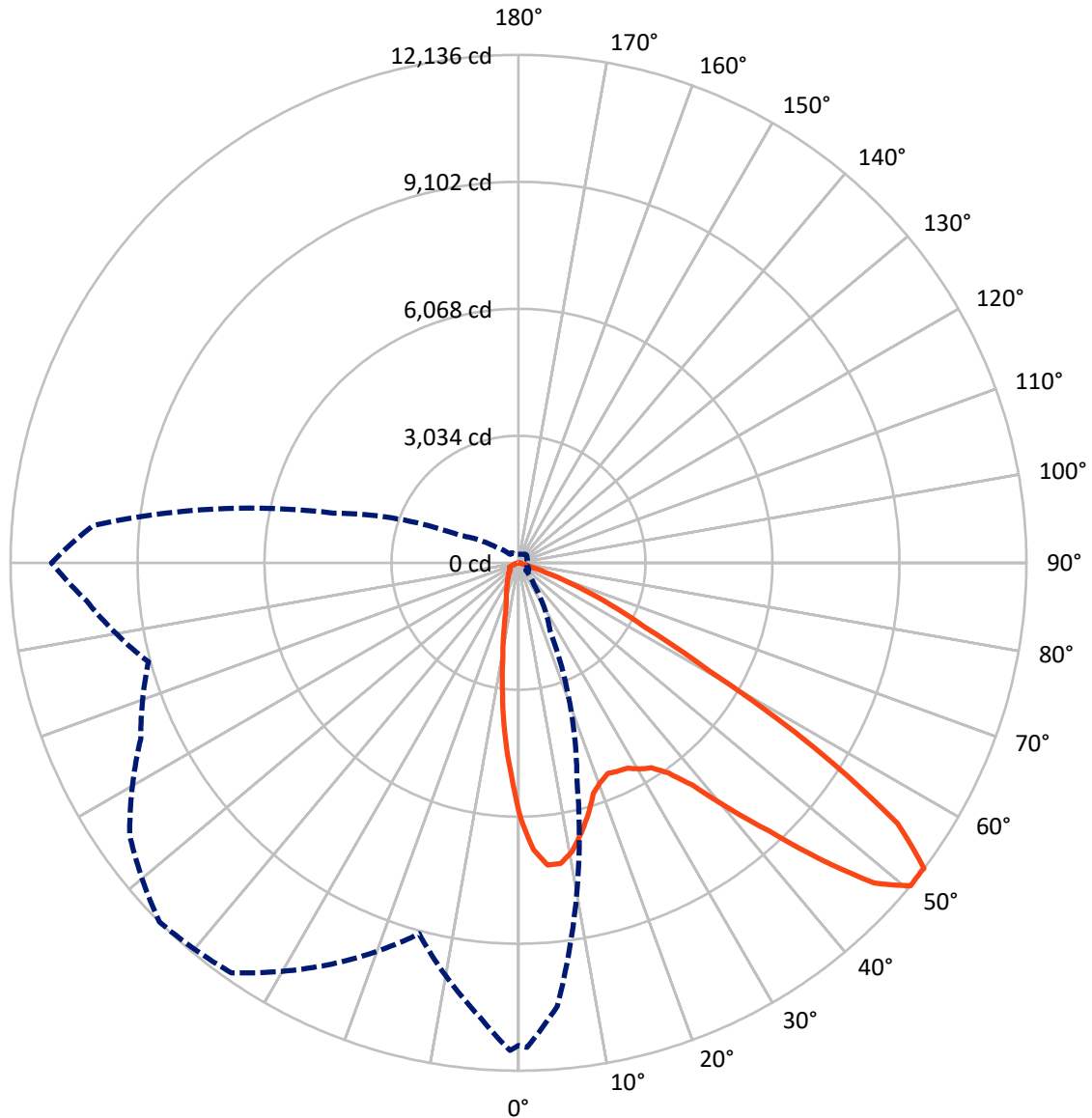
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Short - N/A

REPORT NUMBER: P646898  
CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P646898  
 CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

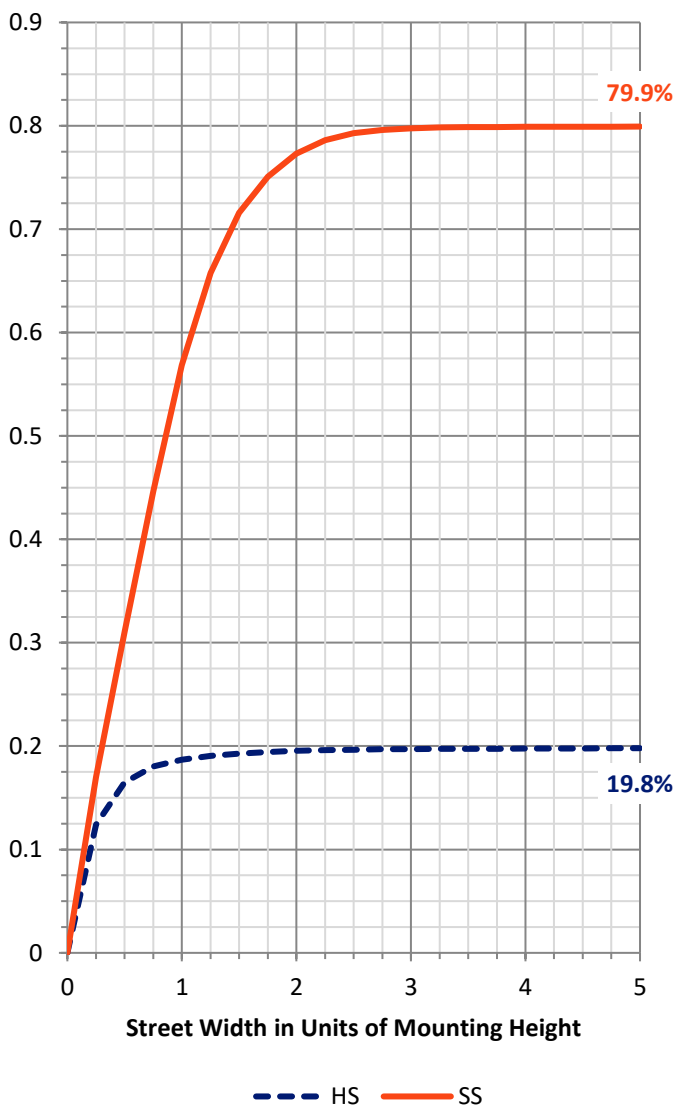
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2411.3	0.0	2411.3
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	9627.3	0.0	9627.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	12038.6	0.0	12038.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.0	3.7
10°-20°	884.4	7.3
20°-30°	1328.7	11.0
30°-40°	1994.3	16.6
40°-50°	2802.8	23.3
50°-60°	3023.3	25.1
60°-70°	1403.7	11.7
70°-80°	132.1	1.1
80°-90°	24.4	0.2
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°	12038.6	100.0
0°-180°	12038.6	100.0

**Coefficient of Utilization**



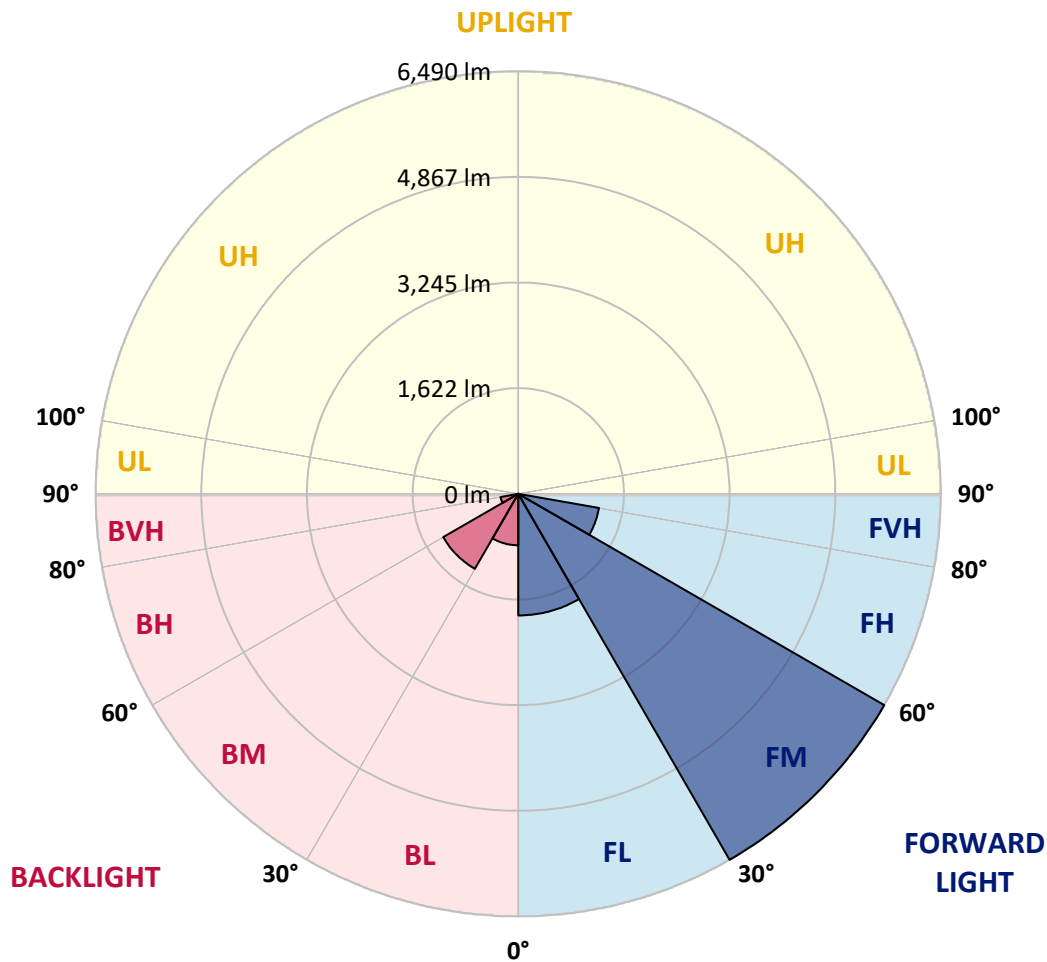
REPORT NUMBER: P646898  
 CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1867.7	15.5			
FM	(30°-60°)	6489.7	53.9			
FH	(60°-80°)	1258.9	10.5			G1/1800
FVH	(80°-90°)	11.0	0.1			G1/100
BL	(0°-30°)	790.4	6.6	B2/1000		
BM	(30°-60°)	1330.7	11.1	B2/2500		
BH	(60°-80°)	276.9	2.3	B1/500		G1/500
BVH	(80°-90°)	13.4	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-G1**

Type III Short





REPORT NUMBER: P646898

CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1
2.5°	6346.4	6248.4	6124.2	6021.5	5868.7	5560.6	5476.9	5376.6	5293.0	5180.7	5023.1
5°	5770.7	5739.6	5682.3	5295.4	5015.9	4643.3	4337.6	4208.6	4039.0	3900.5	3800.1
7.5°	5331.2	5207.0	5025.5	4636.1	4189.5	3790.6	3451.5	3253.2	3028.6	2952.2	2816.1
10°	4860.7	4889.4	4621.8	4074.8	3535.0	3212.6	3002.4	2811.3	2608.3	2474.5	2281.0
12.5°	4710.2	4617.0	4411.7	3735.7	3274.7	2973.8	2718.2	2481.7	2266.7	2051.8	1865.4
15°	4808.1	4664.8	4378.2	3664.0	3074.1	2699.1	2379.0	2058.9	1860.6	1586.0	1392.5
17.5°	5159.3	5044.6	4660.0	3740.5	2971.3	2436.3	1961.0	1631.4	1328.0	1079.6	981.7
20°	5744.4	5582.0	5099.5	3838.3	2818.5	2118.6	1590.7	1184.7	898.1	793.0	738.1
22.5°	6317.7	6229.3	5620.2	4027.0	2682.3	1836.8	1194.2	797.8	671.2	652.1	616.2
25°	7409.2	7144.1	6415.6	4368.7	2577.2	1571.6	900.4	642.5	568.5	554.1	558.9
27.5°	8058.9	7836.8	7151.3	4595.6	2460.2	1368.6	761.9	590.0	539.8	508.8	496.8
30°	8682.3	8424.4	7516.7	4729.3	2209.4	1153.7	676.0	566.1	554.1	508.8	494.5
32.5°	9162.4	8909.2	8044.6	4929.9	2106.7	1015.2	556.6	441.8	410.8	406.1	449.1
35°	9898.1	9628.2	8496.0	5039.8	2027.9	943.4	482.5	394.1	358.3	344.0	346.3
37.5°	10583.6	10399.7	8914.0	5082.8	1944.3	922.0	432.3	353.5	322.4	312.9	310.5
40°	11156.9	10746.0	9310.5	5128.2	1908.4	881.3	401.3	322.4	301.0	286.7	286.7
42.5°	11419.6	11001.6	9754.8	5101.9	1898.9	816.9	401.3	296.2	279.5	265.1	262.8
45°	11362.3	11192.7	9953.0	5090.0	1898.9	752.4	365.4	289.0	265.1	246.0	241.2
47.5°	11510.3	11288.2	10201.5	5140.2	1860.6	707.0	308.1	303.3	250.8	226.9	222.1
50°	11536.6	11579.6	10633.8	5400.5	1777.1	649.7	241.2	298.6	241.2	205.4	200.6
52°	11708.6	11441.1	10765.2	5539.0	1688.7	606.7	203.0	255.6	231.7	191.1	186.3
52.5°	11472.1	11646.5	10796.2	5589.2	1698.2	578.0	195.8	250.8	226.9	191.1	179.2
55°	11207.0	11374.2	10669.6	5696.6	1557.3	453.8	152.8	181.5	205.4	167.2	160.0
57.5°	9740.4	9910.0	9272.3	5216.6	1268.3	320.1	126.6	136.2	181.5	155.3	148.1
60°	8658.4	8536.7	7781.8	4351.9	900.4	179.2	100.3	105.1	198.3	143.3	140.9
62.5°	7913.2	7652.9	6504.0	3360.6	549.4	119.4	78.8	81.2	152.8	133.7	133.7
65°	5854.3	5562.9	4320.8	2032.7	269.9	83.6	59.7	64.5	95.5	114.6	114.6
67.5°	3341.5	3229.3	2087.6	917.2	112.3	52.5	45.4	50.2	74.1	93.2	88.4
70°	1535.9	1378.2	802.6	193.5	52.5	35.9	35.9	40.6	59.7	69.3	64.5
72.5°	449.1	425.2	195.8	31.1	21.5	21.5	23.9	31.1	45.4	52.5	47.8
75°	33.4	21.5	14.3	9.6	9.6	14.3	19.1	31.1	45.4	50.2	40.6
77.5°	2.4	4.8	2.4	2.4	7.2	14.3	21.5	38.2	59.7	62.1	45.4
80°	2.4	2.4	0.0	2.4	7.2	14.3	23.9	43.0	66.9	71.6	38.2
82.5°	0.0	0.0	0.0	2.4	9.6	19.1	28.7	45.4	62.1	76.4	40.6
85°	0.0	0.0	0.0	2.4	14.3	26.3	33.4	12.0	7.2	0.0	0.0
87.5°	0.0	0.0	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



REPORT NUMBER: P646898

CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1
2.5°	5135.4	5073.2	5049.3	5070.9	5063.7	5056.5	5187.9	5159.3	5154.5	5197.5	5187.9
5°	3855.1	3745.2	4046.2	3924.4	4050.9	4127.4	4141.8	4148.9	4237.3	4144.1	4265.9
7.5°	2746.8	2775.5	2773.1	2854.3	3000.0	3128.9	3205.4	3145.7	3140.9	3128.9	3076.4
10°	2195.1	2144.9	2135.3	2116.2	2161.6	2271.5	2364.7	2290.6	2238.0	2309.7	2288.2
12.5°	1793.8	1724.6	1686.3	1609.8	1612.3	1686.3	1686.3	1686.3	1738.9	1779.4	1810.5
15°	1375.8	1318.5	1318.5	1242.1	1225.3	1227.7	1266.0	1270.7	1354.3	1378.2	1390.1
17.5°	962.5	931.5	967.4	998.4	979.3	984.1	998.4	1003.2	1015.2	1005.6	1029.5
20°	740.5	735.7	745.3	800.1	840.8	864.7	847.9	824.0	809.7	776.3	776.3
22.5°	628.2	637.8	654.4	699.8	752.4	766.7	747.6	692.6	649.7	644.9	647.3
25°	558.9	568.5	594.8	623.4	652.1	676.0	656.9	616.2	592.3	570.9	570.9
27.5°	515.9	520.7	535.0	556.6	580.4	599.5	592.3	570.9	544.6	535.0	513.6
30°	482.5	489.7	506.4	511.1	532.7	542.2	530.2	525.5	508.8	496.8	489.7
32.5°	465.7	463.4	475.3	480.1	482.5	489.7	475.3	482.5	480.1	461.0	453.8
35°	351.1	370.2	401.3	427.5	434.7	444.3	441.8	432.3	406.1	384.5	358.3
37.5°	315.3	327.2	344.0	365.4	394.1	406.1	401.3	377.4	346.3	332.0	327.2
40°	291.4	298.6	312.9	327.2	355.9	377.4	360.6	339.2	315.3	303.3	296.2
42.5°	269.9	272.3	279.5	293.8	315.3	348.7	320.1	291.4	281.9	274.7	269.9
45°	246.0	246.0	255.6	262.8	286.7	317.7	289.0	262.8	258.0	253.2	250.8
47.5°	226.9	229.3	234.0	243.7	262.8	284.2	265.1	243.7	231.7	229.3	224.5
50°	203.0	205.4	214.9	224.5	248.4	260.3	248.4	224.5	212.6	205.4	205.4
52°	183.9	191.1	200.6	219.7	236.5	255.6	241.2	214.9	200.6	193.5	188.7
52.5°	181.5	186.3	195.8	217.4	236.5	253.2	238.8	212.6	195.8	191.1	186.3
55°	162.4	169.6	186.3	212.6	234.0	253.2	234.0	210.2	186.3	174.4	169.6
57.5°	155.3	160.0	181.5	214.9	231.7	253.2	234.0	210.2	186.3	164.8	160.0
60°	148.1	157.6	181.5	207.8	229.3	255.6	236.5	207.8	181.5	155.3	155.3
62.5°	140.9	148.1	179.2	203.0	219.7	246.0	226.9	203.0	174.4	148.1	145.7
65°	121.8	133.7	157.6	169.6	188.7	212.6	193.5	176.7	152.8	131.4	129.0
67.5°	93.2	98.0	117.1	131.4	143.3	164.8	155.3	133.7	117.1	100.3	100.3
70°	64.5	69.3	83.6	90.7	102.7	114.6	107.5	90.7	78.8	69.3	66.9
72.5°	45.4	47.8	52.5	57.3	62.1	66.9	64.5	52.5	45.4	43.0	40.6
75°	35.9	40.6	43.0	40.6	38.2	35.9	35.9	31.1	26.3	23.9	23.9
77.5°	35.9	38.2	35.9	31.1	26.3	23.9	21.5	19.1	14.3	12.0	14.3
80°	31.1	31.1	31.1	26.3	23.9	21.5	19.1	16.8	14.3	12.0	12.0
82.5°	33.4	33.4	31.1	26.3	26.3	21.5	21.5	19.1	16.8	12.0	12.0
85°	0.0	0.0	0.0	4.8	12.0	21.5	21.5	19.1	16.8	14.3	14.3
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	9.6	12.0	14.3	14.3	14.3
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: P646898

CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1
2.5°	5273.9	5364.6	5536.6	5708.6	5813.7	5937.9	6162.4	6281.9	6437.1	6513.5	6664.0
5°	4249.2	4464.2	4540.6	4736.4	4946.7	5156.8	5491.3	5859.1	6164.8	6375.0	6647.3
7.5°	3100.3	3150.5	3446.7	3578.0	3922.0	4304.2	4760.3	5223.7	5610.7	5954.6	6162.4
10°	2324.0	2507.9	2694.3	2945.1	3222.1	3616.2	4053.4	4564.5	5066.1	5410.1	5672.8
12.5°	1867.8	2013.6	2261.9	2531.8	2873.4	3133.7	3573.2	4079.6	4729.3	5066.1	5412.4
15°	1414.0	1600.3	1882.2	2161.6	2522.3	2797.0	3241.2	3879.0	4715.0	5178.4	5476.9
17.5°	1048.6	1175.1	1428.3	1741.2	2109.1	2496.0	3095.5	3857.4	4875.0	5426.7	5734.8
20°	802.6	845.6	1005.6	1285.1	1683.9	2190.3	2859.0	3950.6	5348.0	6031.1	6343.9
22.5°	649.7	668.8	730.9	924.3	1311.3	1922.7	2746.8	4015.1	5880.6	6754.8	7172.7
25°	566.1	561.3	601.9	685.5	1024.7	1671.9	2603.5	4258.7	6532.6	7605.1	7980.1
27.5°	515.9	515.9	535.0	594.8	850.3	1509.5	2512.7	4433.1	7189.5	8352.7	8555.8
30°	489.7	494.5	549.4	568.5	707.0	1316.1	2362.2	4609.9	7817.7	8830.4	9109.9
32.5°	453.8	434.7	422.7	470.5	594.8	1141.7	2211.8	4683.9	8326.4	9415.6	9654.5
35°	348.7	339.2	353.5	389.3	511.1	993.6	2044.6	4767.5	8911.6	10094.0	10141.7
37.5°	315.3	312.9	322.4	353.5	429.9	864.7	1925.2	4746.0	9358.3	10655.3	10526.3
40°	291.4	291.4	298.6	324.9	384.5	773.9	1801.0	4726.9	9790.6	11285.8	10908.4
42.5°	272.3	272.3	284.2	301.0	365.4	714.2	1707.8	4700.7	10153.7	11672.8	11133.0
45°	246.0	253.2	272.3	289.0	370.2	673.5	1638.5	4600.4	10277.9	11668.0	11025.5
47.5°	226.9	236.5	255.6	279.5	334.4	661.6	1590.7	4512.0	10234.9	11381.4	10688.7
50°	205.4	217.4	243.7	284.2	284.2	637.8	1540.6	4590.7	10203.8	11159.2	10366.2
52°	191.1	200.6	234.0	277.1	248.4	587.6	1509.5	4743.6	10330.4	11130.6	10222.9
52.5°	188.7	195.8	226.9	272.3	236.5	578.0	1488.1	4779.4	10371.0	11058.9	10320.9
55°	167.2	176.7	207.8	212.6	193.5	475.3	1418.8	4860.7	10170.4	10918.0	10227.7
57.5°	157.6	162.4	183.9	174.4	167.2	358.3	1220.5	4734.1	9033.5	9697.5	9516.0
60°	145.7	150.5	171.9	136.2	140.9	250.8	917.2	4110.7	7254.0	8080.4	8407.6
62.5°	140.9	138.5	162.4	109.9	119.4	181.5	647.3	3341.5	5589.2	6652.1	7218.2
65°	124.2	121.8	117.1	93.2	102.7	140.9	387.0	2180.7	3938.7	5032.7	5343.2
67.5°	95.5	100.3	86.0	74.1	86.0	109.9	214.9	976.9	2066.1	3019.1	3269.9
70°	66.9	71.6	69.3	64.5	76.4	90.7	124.2	334.4	855.1	1586.0	1748.4
72.5°	40.6	50.2	52.5	55.0	66.9	78.8	88.4	107.5	226.9	561.3	697.4
75°	23.9	33.4	40.6	47.8	55.0	66.9	74.1	76.4	78.8	105.1	169.6
77.5°	16.8	23.9	35.9	45.4	55.0	66.9	78.8	83.6	78.8	74.1	78.8
80°	14.3	23.9	33.4	43.0	57.3	69.3	78.8	78.8	76.4	66.9	71.6
82.5°	14.3	23.9	35.9	45.4	55.0	66.9	76.4	78.8	71.6	66.9	69.3
85°	16.8	26.3	38.2	47.8	59.7	55.0	50.2	40.6	38.2	31.1	33.4
87.5°	16.8	23.9	23.9	26.3	28.7	28.7	28.7	26.3	21.5	19.1	19.1
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: P646898

CATALOG NUMBER: GALN-SA4C-835-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1	6105.1
2.5°	6671.2	6862.3	6855.1	6859.9	6831.2	6637.7	6544.6	6308.2	6375.0	6346.4
5°	6926.7	7115.4	7277.9	7258.8	7039.0	6776.3	6386.9	6019.1	5918.8	5770.7
7.5°	6671.2	7125.0	7275.5	7254.0	6929.2	6592.4	5971.3	5603.5	5429.2	5331.2
10°	6265.1	6790.6	6976.9	7015.1	6795.4	6284.3	5713.4	5123.4	5030.2	4860.7
12.5°	6033.4	6415.6	6530.3	6632.9	6556.5	6174.3	5517.5	4951.5	4822.4	4710.2
15°	5844.8	6071.7	6119.5	6236.4	6281.9	6076.5	5620.2	5137.7	4820.1	4808.1
17.5°	6019.1	5926.0	5751.6	5787.4	5930.8	6078.8	5885.3	5505.6	5197.5	5159.3
20°	6308.2	5897.3	5503.2	5591.6	5711.0	6164.8	6286.6	6019.1	5842.4	5744.4
22.5°	6640.2	5947.4	5424.4	5467.4	5694.3	6358.3	6936.3	6788.2	6458.6	6317.7
25°	7254.0	6086.0	5486.5	5515.1	5825.7	6628.2	7523.9	7633.8	7437.9	7409.2
27.5°	7853.5	6444.2	5622.6	5558.1	5892.5	6890.9	7879.8	8469.8	8125.8	8058.9
30°	8159.3	6735.7	5825.7	5715.7	6169.6	7051.0	8094.7	9014.4	8713.4	8682.3
32.5°	8627.4	7000.8	5983.3	5842.4	6324.8	7249.2	8496.0	9609.1	9317.7	9162.4
35°	8823.2	7289.8	6329.6	6164.8	6769.1	7526.3	8701.5	10139.3	10048.6	9898.1
37.5°	9200.6	7600.3	6738.0	6728.5	7306.6	7886.9	9071.7	10860.7	10843.9	10583.6
40°	9231.7	7939.5	7383.0	7683.9	8137.7	8515.1	9396.5	11061.3	11333.6	11156.9
42.5°	9279.5	8534.2	8498.4	8746.8	9136.1	9054.9	9408.4	11109.0	11524.7	11419.6
45°	9300.9	9129.0	9632.9	10091.5	10254.0	9762.0	9296.2	11018.3	11625.0	11362.3
47.5°	9129.0	9640.1	10550.1	11436.3	11484.1	10196.7	9248.4	10925.2	11684.7	11510.3
50°	9152.9	9960.2	11343.2	12136.2	11961.8	10581.2	9174.3	10867.8	11653.7	11536.6
52°	9095.6	9967.4	11455.4	12121.9	12000.0	10368.6	9047.8	10648.1	11625.0	11708.6
52.5°	9160.0	9924.4	11338.4	12131.4	11973.7	10473.7	9031.0	10769.9	11641.7	11472.1
55°	8937.9	9413.2	10652.9	10989.6	10965.8	9506.4	8517.6	10366.2	11204.7	11207.0
57.5°	8078.1	8159.3	8355.1	8348.0	8238.1	7473.7	7285.0	9532.6	9988.9	9740.4
60°	7117.9	5973.7	5445.8	5230.9	5109.1	4984.9	6444.2	8720.6	8763.6	8658.4
62.5°	6150.5	4141.8	3439.5	3379.7	3408.5	3862.2	6229.3	8398.1	8140.1	7913.2
65°	4963.4	3019.1	2498.4	2419.6	2699.1	3188.7	5042.2	6439.5	6043.0	5854.3
67.5°	3117.0	2202.3	1688.7	1540.6	1877.4	2195.1	3312.9	4046.2	3601.9	3341.5
70°	1848.7	1230.1	764.4	685.5	771.5	1170.4	1855.9	2018.3	1669.6	1535.9
72.5°	728.5	451.4	212.6	181.5	188.7	410.8	683.1	666.4	504.0	449.1
75°	195.8	136.2	74.1	59.7	50.2	76.4	109.9	71.6	26.3	33.4
77.5°	90.7	81.2	64.5	50.2	38.2	28.7	14.3	4.8	4.8	2.4
80°	78.8	69.3	59.7	50.2	38.2	23.9	12.0	2.4	2.4	2.4
82.5°	74.1	64.5	55.0	45.4	35.9	23.9	12.0	2.4	0.0	0.0
85°	31.1	40.6	45.4	43.0	38.2	23.9	12.0	2.4	0.0	0.0
87.5°	16.8	14.3	12.0	9.6	7.2	4.8	4.8	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

(END OF REPORT)