

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: P647834

Luminaire Tested: **GALN-SA3A-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7961.5 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

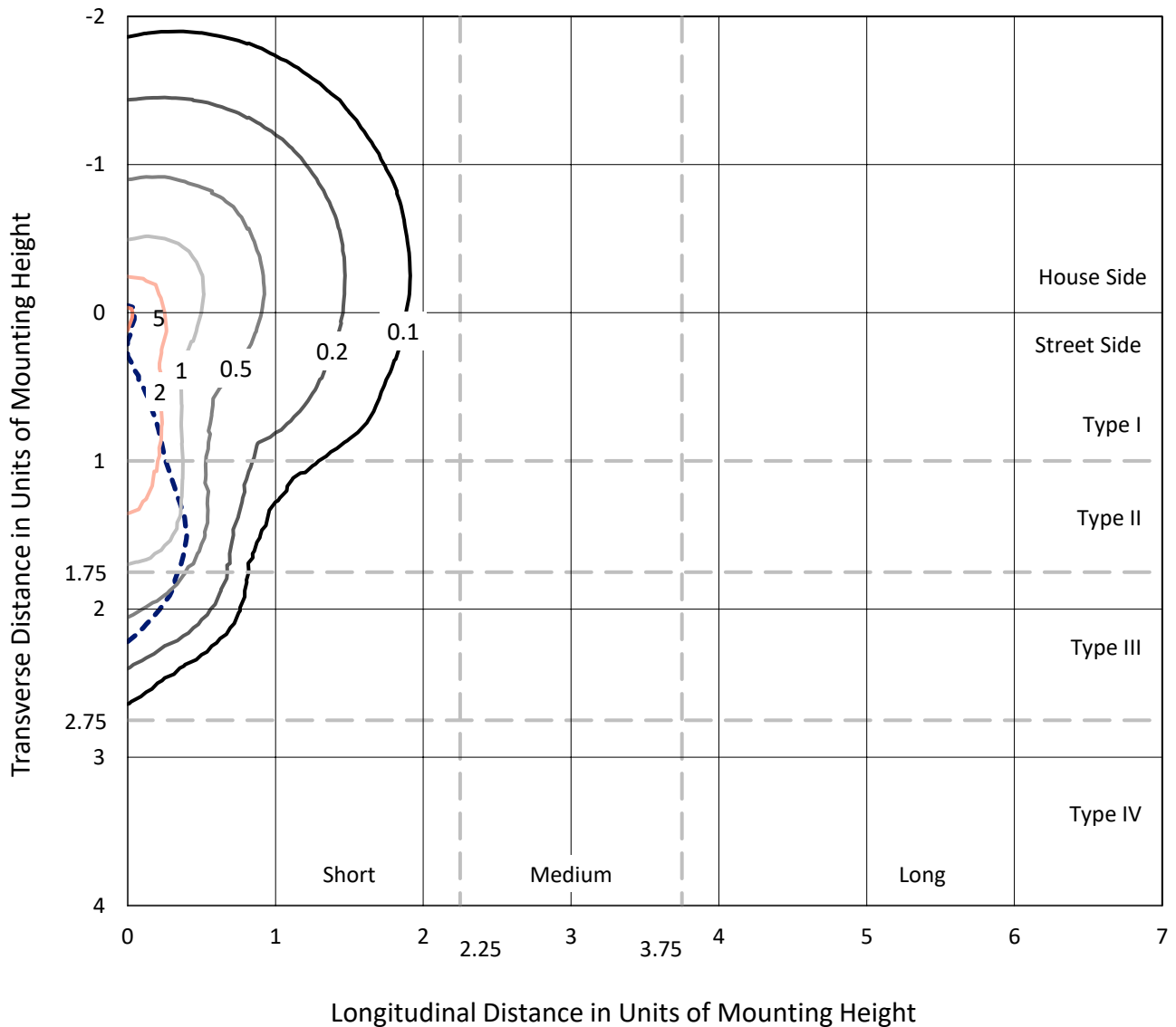
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647834
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

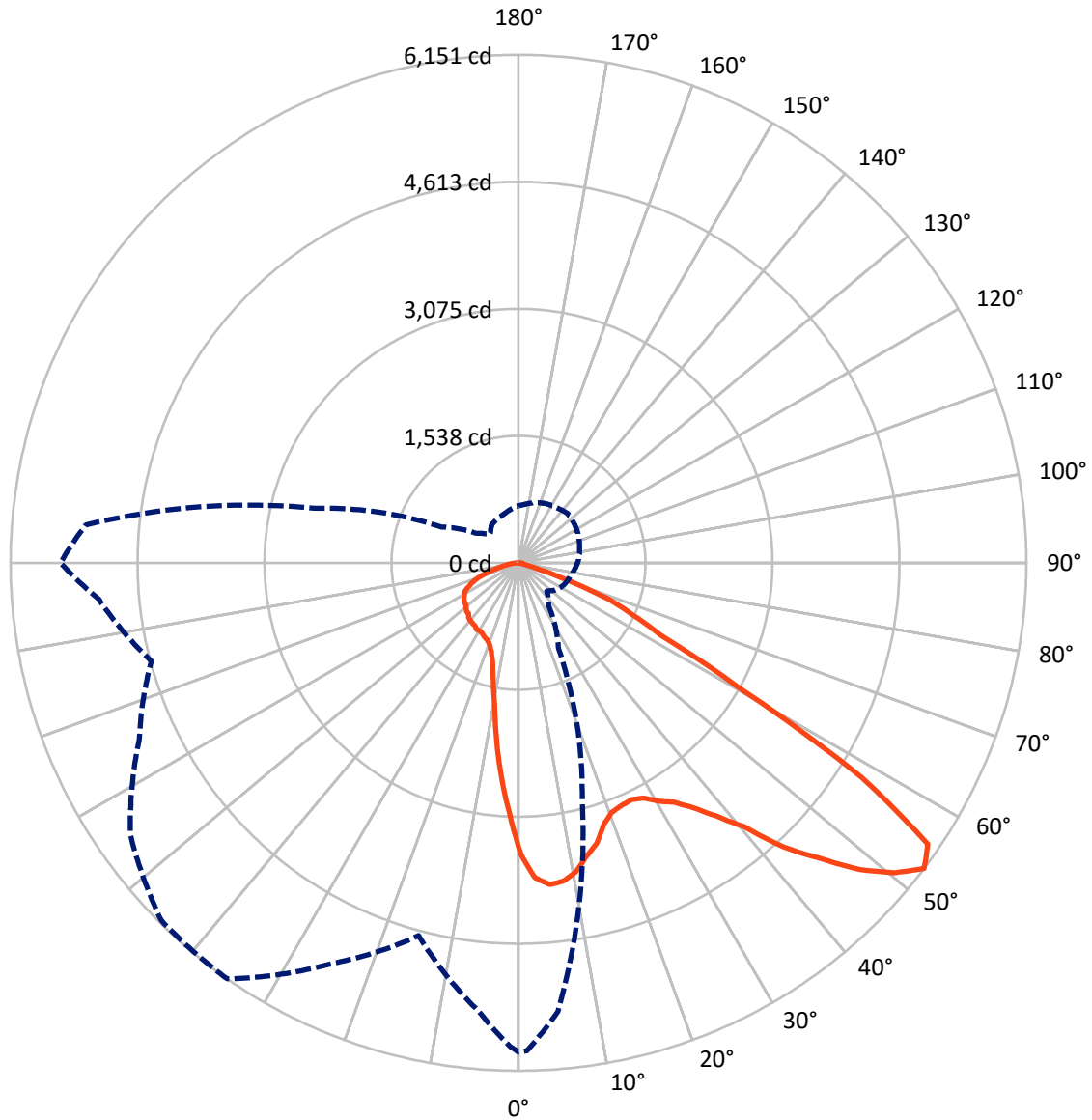
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

REPORT NUMBER: P647834
CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P647834
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

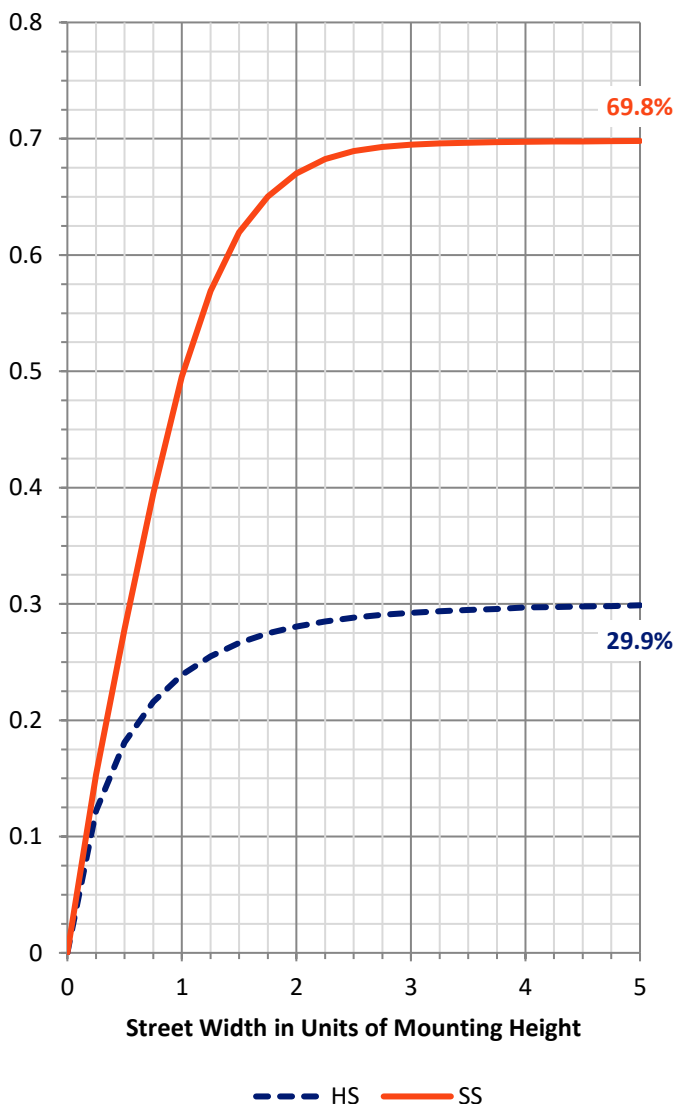
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2400.1	0.0	2400.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	5561.5	0.0	5561.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	7961.5	0.0	7961.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	3.4
10°-20°	584.4	7.3
20°-30°	882.9	11.1
30°-40°	1275.9	16.0
40°-50°	1698.0	21.3
50°-60°	1899.2	23.9
60°-70°	1070.4	13.4
70°-80°	238.6	3.0
80°-90°	42.5	0.5
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°	7961.5	100.0
0°-180°	7961.5	100.0

Coefficient of Utilization



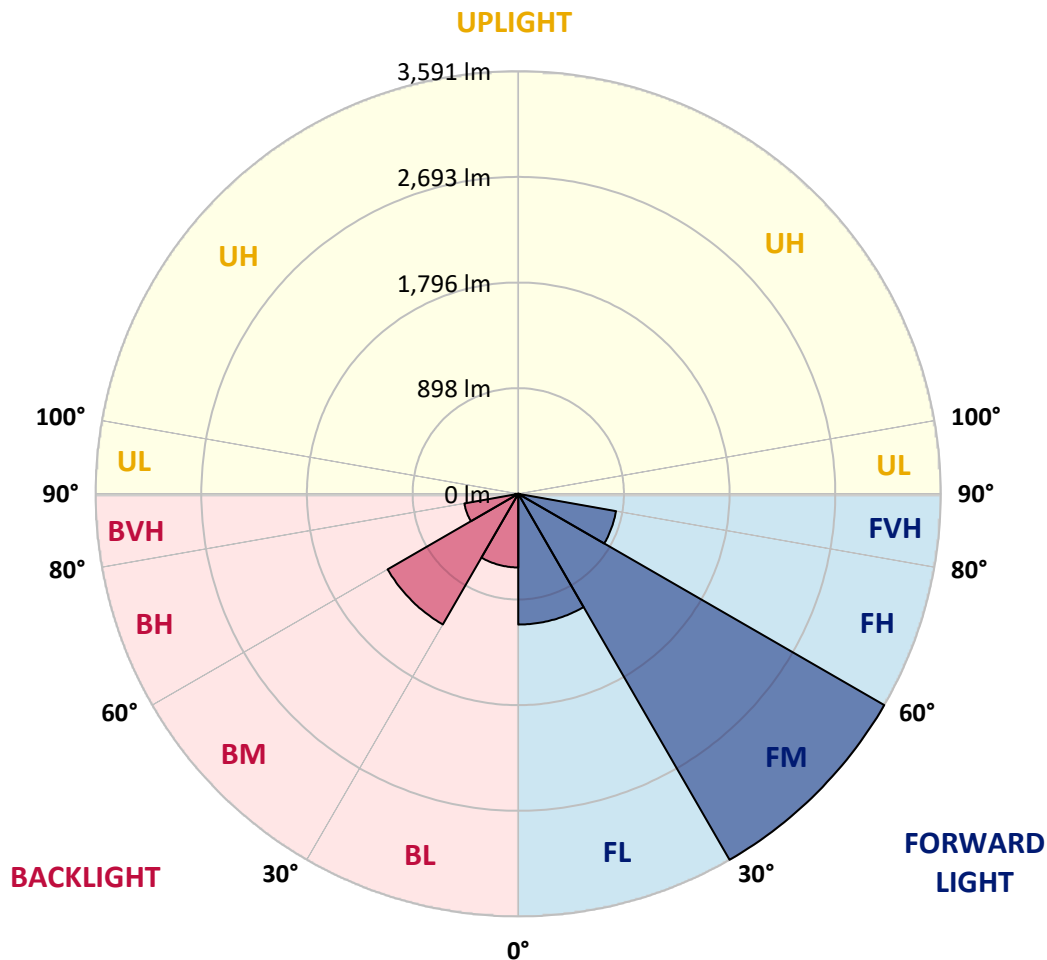
REPORT NUMBER: P647834
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.0	14.0			
FM (30°-60°)	3591.3	45.1			
FH (60°-80°)	843.8	10.6			G1/1800
FVH (80°-90°)	15.4	0.2			G1/100
BL (0°-30°)	625.9	7.9	B2/1000		
BM (30°-60°)	1281.9	16.1	B2/2500		
BH (60°-80°)	465.2	5.8	B1/500		G1/500
BVH (80°-90°)	27.1	0.3			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: P647834

CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3592.2	3650.0	3587.6	3476.8	3398.4	3326.8	3251.8	3236.8	3138.7	3121.4	3049.9
5°	3388.0	3375.3	3299.1	3153.8	2993.3	2847.9	2740.7	2636.8	2566.4	2484.5	2478.7
7.5°	3139.9	3066.1	3022.1	2801.8	2603.3	2374.8	2276.7	2118.6	2069.0	1995.2	1957.1
10°	2918.3	2864.1	2761.4	2541.0	2264.0	2112.8	2007.8	1922.5	1864.8	1788.6	1692.8
12.5°	2808.7	2786.8	2671.4	2329.8	2124.4	1962.8	1889.0	1805.9	1707.8	1585.5	1538.2
15°	2828.4	2754.4	2666.7	2289.4	2005.6	1849.8	1732.1	1628.2	1502.4	1385.9	1317.8
17.5°	2974.9	2918.3	2742.9	2314.8	1960.6	1735.5	1522.1	1368.6	1255.5	1150.5	1103.2
20°	3263.4	3181.4	2984.1	2347.1	1863.6	1576.3	1331.6	1142.4	1021.3	965.8	949.7
22.5°	3583.0	3534.5	3219.5	2419.9	1786.3	1428.6	1129.7	940.5	895.4	880.5	910.5
25°	3971.8	3846.1	3585.3	2538.6	1726.3	1302.8	958.9	853.9	830.8	845.9	880.5
27.5°	4267.3	4233.8	3841.5	2650.6	1644.4	1151.6	863.2	793.9	800.9	815.8	848.1
30°	4618.1	4448.5	4089.6	2727.9	1570.5	1047.8	796.2	777.8	784.6	810.1	826.2
32.5°	4829.2	4765.8	4245.3	2844.5	1485.1	957.8	744.3	727.0	737.4	775.5	813.5
35°	5098.1	4972.4	4438.0	2874.5	1425.1	922.0	707.4	694.7	718.9	745.4	788.2
37.5°	5412.0	5325.5	4704.7	2853.7	1392.8	885.1	676.2	670.4	687.8	724.7	774.3
40°	5597.8	5571.3	4844.3	2866.4	1342.1	852.8	640.4	647.4	683.2	712.0	760.4
42.5°	5776.7	5603.5	5050.8	2861.8	1309.7	808.9	643.9	635.8	663.5	696.9	743.1
45°	5815.9	5643.9	5099.3	2829.4	1270.5	766.2	617.4	620.8	654.3	695.9	725.8
47.5°	5790.5	5663.6	5189.3	2820.2	1233.5	736.3	578.1	619.7	639.3	672.8	715.4
50°	5773.2	5766.2	5265.4	2864.1	1184.0	688.9	530.8	604.6	624.3	657.7	703.9
52.5°	5925.5	5910.5	5455.9	2979.5	1144.7	638.1	482.3	566.6	613.9	646.2	691.2
55°	6017.8	5952.1	5782.5	3121.4	1079.0	571.2	448.9	519.3	588.5	617.4	663.5
57.5°	5413.2	5368.2	5230.8	2913.7	968.2	483.5	407.3	470.8	553.9	598.9	646.2
60°	4503.8	4433.4	4081.5	2476.4	714.3	376.2	381.9	432.8	544.7	562.0	617.4
62.5°	4246.5	4072.3	3593.4	1992.9	548.1	323.1	342.7	398.1	496.2	525.1	580.4
65°	3369.5	3240.3	2571.0	1439.0	367.0	280.4	312.7	358.8	428.1	484.7	535.4
67.5°	2109.4	1985.9	1372.1	680.8	256.2	240.0	279.2	327.7	384.3	435.0	491.6
70°	1102.0	967.0	633.5	245.8	176.6	196.1	233.1	279.2	334.7	376.2	420.0
72.5°	410.8	333.5	206.6	106.2	122.3	150.0	189.3	222.7	261.9	312.7	336.9
75°	63.5	54.3	53.1	64.6	83.1	108.4	135.0	168.5	203.1	235.4	251.6
77.5°	30.0	28.8	32.3	42.7	55.4	77.3	98.1	130.4	158.1	178.8	188.1
80°	19.7	18.5	20.7	28.8	41.6	57.7	78.5	100.4	125.7	143.1	140.8
82.5°	11.5	12.7	12.7	19.7	28.8	41.6	56.5	76.2	93.5	108.4	99.2
85°	6.9	5.8	5.8	11.5	19.7	33.4	47.3	32.3	33.4	33.4	38.1
87.5°	2.3	2.3	2.3	1.2	2.3	2.3	3.4	5.8	6.9	8.1	10.4
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: P647834

CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3047.6	3083.4	3070.6	3025.7	3060.3	3066.1	3043.0	3122.6	3137.6	3113.4	3120.3
5°	2470.6	2479.8	2500.6	2544.4	2575.6	2612.6	2612.6	2614.8	2583.7	2662.1	2639.1
7.5°	1924.8	1930.6	1954.8	2048.2	2074.8	2145.2	2175.2	2154.4	2092.1	2065.6	2087.5
10°	1661.7	1628.2	1620.1	1631.7	1691.7	1721.7	1747.1	1740.1	1729.8	1709.0	1685.9
12.5°	1486.3	1462.0	1442.4	1414.7	1418.2	1447.1	1466.6	1450.5	1455.1	1459.7	1466.6
15°	1295.9	1278.6	1268.2	1226.6	1222.0	1241.7	1248.6	1257.8	1275.1	1276.3	1268.2
17.5°	1093.9	1079.0	1102.0	1125.1	1109.0	1110.1	1122.8	1130.9	1126.3	1105.5	1095.1
20°	955.5	971.6	994.7	1016.6	1034.0	1044.3	1048.9	1036.2	1021.3	978.5	977.4
22.5°	915.1	935.8	955.5	988.9	1005.1	1031.6	1007.4	978.5	957.8	937.0	912.7
25°	885.1	902.4	941.6	954.3	985.5	1007.4	990.1	961.2	925.4	895.4	877.0
27.5°	863.2	882.8	908.1	942.8	967.0	979.7	962.4	950.9	913.9	878.1	851.6
30°	849.3	870.1	916.3	945.1	965.8	976.2	946.3	932.4	905.9	875.9	852.8
32.5°	840.1	858.6	897.8	934.7	948.5	948.5	953.1	937.0	900.1	849.3	829.7
35°	810.1	835.5	867.8	910.5	935.8	950.9	927.8	909.3	885.1	833.1	797.4
37.5°	792.8	810.1	851.6	892.0	913.9	930.0	920.9	888.5	856.2	813.5	784.6
40°	774.3	802.0	838.9	877.0	901.2	917.4	910.5	872.4	833.1	792.8	773.1
42.5°	761.6	780.1	818.2	860.8	889.7	920.9	900.1	852.8	825.0	769.7	747.8
45°	751.2	781.2	821.6	838.9	868.9	901.2	864.3	835.5	803.1	762.7	744.3
47.5°	738.5	766.2	792.8	838.9	852.8	867.8	860.8	814.7	787.0	743.1	730.5
50°	733.9	744.3	792.8	818.2	837.7	852.8	834.3	799.7	773.1	728.1	700.5
52.5°	715.4	735.1	766.2	799.7	824.0	842.4	812.4	790.4	754.7	707.4	690.1
55°	692.3	703.9	759.3	793.9	806.6	819.3	807.7	772.0	735.1	686.6	669.3
57.5°	662.3	688.9	733.9	782.4	798.5	805.5	787.0	758.2	712.0	669.3	641.6
60°	631.2	658.9	708.5	747.8	763.9	789.3	761.6	744.3	691.2	643.9	613.9
62.5°	600.0	631.2	668.1	717.8	731.6	742.0	735.1	710.8	668.1	615.0	578.1
65°	563.1	586.2	632.4	657.7	667.0	691.2	667.0	657.7	619.7	568.9	537.8
67.5°	507.7	527.4	567.8	591.9	598.9	609.3	608.2	597.7	555.1	520.5	492.7
70°	444.3	461.6	486.9	515.8	519.3	532.0	520.5	518.1	490.4	443.1	428.1
72.5°	356.6	372.7	406.2	418.9	420.0	424.6	418.9	410.8	403.9	354.2	339.3
75°	273.5	282.7	298.9	310.4	310.4	316.2	312.7	304.7	286.2	255.0	240.0
77.5°	190.4	199.7	220.4	227.3	226.2	228.5	218.1	210.0	182.4	166.2	153.5
80°	138.4	144.2	154.6	159.3	160.4	163.9	151.2	144.2	128.1	109.6	103.8
82.5°	100.4	103.8	105.0	110.8	110.8	105.0	101.6	94.6	83.1	71.6	66.9
85°	41.6	42.7	43.8	50.7	51.9	62.3	57.7	54.3	47.3	40.4	37.0
87.5°	10.4	11.5	15.0	12.7	15.0	15.0	16.1	18.5	18.5	15.0	15.0
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: P647834

CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3146.8	3156.0	3273.7	3288.8	3346.5	3405.3	3524.1	3609.6	3678.8	3723.8	3736.5
5°	2663.3	2722.2	2776.4	2864.1	2943.7	3056.8	3187.2	3348.7	3551.8	3655.7	3697.2
7.5°	2085.2	2154.4	2232.9	2318.3	2434.8	2637.9	2812.1	2999.1	3258.8	3366.0	3528.7
10°	1702.1	1779.4	1883.3	1949.0	2089.8	2283.7	2486.7	2702.5	2950.7	3105.3	3293.4
12.5°	1504.8	1568.2	1664.0	1802.5	1907.5	2033.2	2184.4	2456.7	2812.1	2958.7	3088.0
15°	1286.6	1357.0	1467.8	1621.3	1747.1	1897.1	2066.7	2363.3	2741.8	2968.0	3077.6
17.5°	1106.6	1157.4	1273.9	1406.7	1550.9	1714.8	1958.3	2358.6	2815.6	3105.3	3284.1
20°	982.0	988.9	1052.4	1165.5	1361.6	1575.2	1891.3	2335.6	3052.2	3341.8	3568.0
22.5°	903.5	896.6	897.8	993.5	1130.9	1437.8	1786.3	2414.1	3321.1	3718.0	3870.4
25°	864.3	845.9	834.3	855.0	979.7	1275.1	1706.7	2517.9	3610.7	4028.5	4215.4
27.5°	843.5	811.2	788.2	791.6	882.8	1193.2	1657.1	2562.9	3898.0	4461.1	4526.9
30°	835.5	795.1	761.6	750.0	810.1	1079.0	1550.9	2640.2	4155.4	4698.9	4755.4
32.5°	806.6	757.0	724.7	714.3	738.5	978.5	1474.8	2695.6	4382.7	4957.3	4937.8
35°	773.1	731.6	691.2	671.6	688.9	913.9	1413.5	2669.1	4650.4	5158.2	5147.8
37.5°	769.7	715.4	682.0	649.7	648.5	834.3	1330.5	2694.5	4821.2	5518.2	5376.2
40°	739.7	705.1	661.2	634.7	619.7	793.9	1249.7	2634.5	5071.6	5663.6	5523.9
42.5°	740.8	688.9	650.8	619.7	604.6	735.1	1194.3	2618.3	5159.3	5900.1	5593.2
45°	722.4	671.6	639.3	602.4	594.3	690.1	1141.2	2543.3	5313.9	5911.7	5506.6
47.5°	703.9	658.9	624.3	580.4	562.0	673.9	1099.7	2481.0	5233.2	5803.2	5386.6
50°	691.2	639.3	607.0	575.8	523.9	646.2	1045.5	2466.0	5120.0	5656.6	5163.9
52.5°	669.3	623.1	589.7	565.4	482.3	620.8	1024.7	2553.7	5258.5	5547.0	5099.3
55°	648.5	601.2	558.5	511.2	447.7	553.9	967.0	2635.6	5460.5	5799.8	5392.4
57.5°	626.6	581.6	535.4	478.9	414.3	484.7	907.0	2650.6	5082.0	5360.1	5118.9
60°	597.7	540.0	505.4	431.6	378.5	401.6	718.9	2336.7	3941.9	4476.2	4484.2
62.5°	565.4	503.2	473.1	386.6	341.5	346.2	586.2	1964.0	3197.6	3705.3	3925.7
65°	522.7	462.8	427.0	357.8	315.0	300.0	429.2	1439.0	2429.0	3006.0	3256.4
67.5°	467.4	410.8	365.8	311.6	281.6	257.3	293.1	810.1	1434.4	2018.3	2094.4
70°	408.5	360.0	312.7	267.7	234.3	217.0	214.6	358.8	685.4	1085.9	1235.9
72.5°	322.0	287.4	249.2	215.8	193.9	168.5	153.5	148.8	231.9	441.9	610.4
75°	230.8	201.9	180.0	158.1	142.0	128.1	116.5	106.2	96.9	110.8	152.3
77.5°	145.4	135.0	117.7	112.0	102.7	99.2	94.6	88.9	81.9	77.3	77.3
80°	98.1	91.1	85.4	84.3	80.8	79.6	80.8	75.0	68.1	62.3	64.6
82.5°	65.8	64.6	63.5	62.3	63.5	64.6	66.9	65.8	60.0	56.5	57.7
85°	39.2	41.6	43.8	46.1	50.7	45.0	37.0	31.2	27.7	25.4	24.2
87.5°	15.0	20.7	18.5	17.3	18.5	17.3	16.1	15.0	12.7	11.5	11.5
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: P647834

CATALOG NUMBER: GALN-SA3A-835-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4	3533.4
2.5°	3820.7	3843.8	3863.4	3858.8	3818.4	3764.2	3742.3	3630.3	3607.2	3592.2
5°	3872.6	4006.5	4035.3	4018.0	3913.0	3780.3	3651.1	3487.2	3391.4	3388.0
7.5°	3776.9	3941.9	3993.8	4033.1	3893.4	3662.6	3441.1	3195.3	3135.3	3139.9
10°	3533.4	3796.5	3924.6	3965.0	3804.6	3604.9	3298.0	3048.7	2920.7	2918.3
12.5°	3398.4	3604.9	3640.7	3697.2	3650.0	3448.0	3214.9	2935.6	2811.0	2808.7
15°	3278.3	3414.5	3424.9	3504.6	3529.9	3393.8	3236.8	2939.1	2838.7	2828.4
17.5°	3383.3	3288.8	3249.5	3259.9	3334.9	3384.5	3363.8	3135.3	3032.6	2974.9
20°	3453.7	3242.6	3123.7	3135.3	3224.2	3405.3	3553.0	3419.1	3256.4	3263.4
22.5°	3641.9	3249.5	3063.7	3051.0	3191.8	3513.8	3766.5	3778.1	3621.1	3583.0
25°	3923.4	3329.2	3045.2	3041.8	3176.8	3630.3	4015.7	4202.7	4042.2	3971.8
27.5°	4149.6	3453.7	3103.0	3114.5	3224.2	3725.0	4228.0	4476.2	4353.9	4267.3
30°	4348.1	3583.0	3183.8	3130.7	3351.1	3774.5	4319.2	4787.7	4689.6	4618.1
32.5°	4430.0	3766.5	3311.9	3224.2	3456.1	3834.6	4508.4	5090.0	5005.8	4829.2
35°	4568.5	3869.2	3381.1	3374.1	3639.5	3978.8	4597.3	5289.7	5255.1	5098.1
37.5°	4679.3	3973.0	3626.9	3550.7	3891.1	4221.2	4740.4	5565.5	5485.9	5412.0
40°	4764.6	4158.8	3856.5	3956.9	4200.3	4441.6	4872.0	5582.8	5812.4	5597.8
42.5°	4686.2	4325.0	4233.8	4473.8	4704.7	4693.1	4886.9	5716.7	5888.6	5776.7
45°	4666.5	4606.5	4830.4	5048.5	5101.6	4902.0	4779.7	5568.9	5865.5	5815.9
47.5°	4619.2	4883.5	5273.5	5628.9	5548.2	5041.6	4651.6	5542.4	5879.4	5790.5
50°	4603.1	4943.5	5601.3	5947.4	5899.0	5162.8	4591.5	5371.6	5781.3	5773.2
52.5°	4601.9	5066.9	5737.4	6120.6	6150.5	5354.3	4673.5	5458.1	5857.5	5925.5
55°	4653.8	5027.7	5720.1	6024.7	6013.2	5268.9	4682.7	5515.8	5950.9	6017.8
57.5°	4389.6	4503.8	4720.8	4961.9	4899.6	4364.2	4181.9	5099.3	5461.7	5413.2
60°	3790.7	3433.0	3188.4	3176.8	3055.7	2888.3	3422.6	4551.2	4551.2	4503.8
62.5°	3319.9	2253.6	1936.4	1846.3	1932.8	2125.5	3301.4	4426.5	4300.8	4246.5
65°	2903.4	1720.6	1399.8	1374.3	1524.3	1815.2	2985.3	3771.1	3549.6	3369.5
67.5°	1868.2	1260.1	1040.8	995.8	1177.0	1332.8	1987.1	2319.4	2179.8	2109.4
70°	1204.7	820.4	579.3	543.5	613.9	821.6	1269.3	1352.4	1149.4	1102.0
72.5°	570.0	354.2	203.1	167.3	188.1	313.9	502.0	540.0	448.9	410.8
75°	181.2	130.4	83.1	71.6	68.1	80.8	115.4	88.9	64.6	63.5
77.5°	80.8	77.3	65.8	55.4	48.5	40.4	33.4	27.7	28.8	30.0
80°	66.9	61.2	54.3	48.5	40.4	31.2	24.2	18.5	18.5	19.7
82.5°	58.9	53.1	47.3	40.4	34.6	25.4	18.5	12.7	11.5	11.5
85°	25.4	30.0	32.3	34.6	27.7	20.7	12.7	8.1	6.9	6.9
87.5°	10.4	9.2	8.1	6.9	5.8	5.8	4.6	3.4	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)