

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: P647396

Luminaire Tested: **GALN-SA4D-835-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-835-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20654.8 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

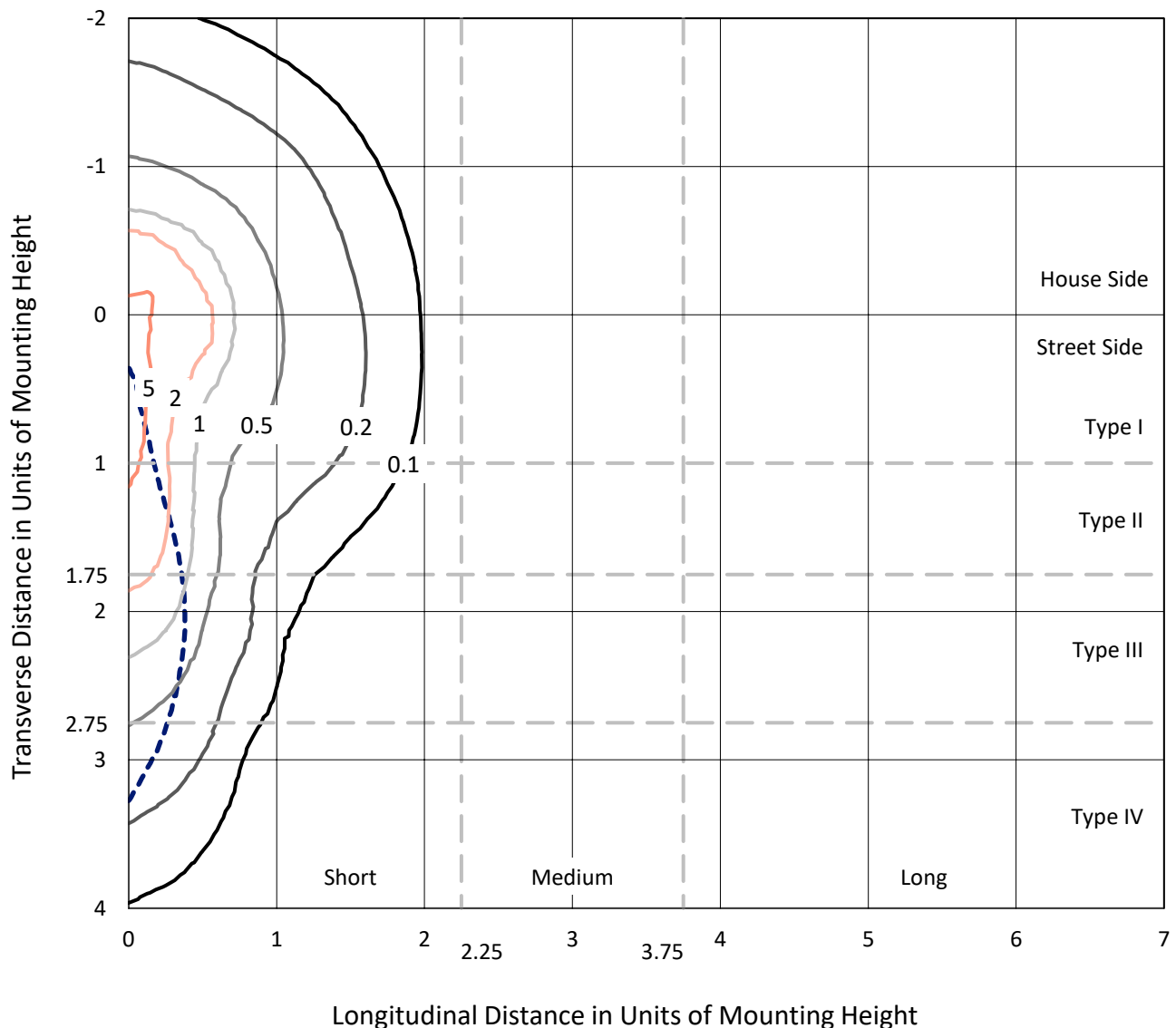
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647396  
 CATALOG NUMBER: GALN-SA4D-835-U-SLR

## Iso-Footcandle Lines of Horizontal Illumination

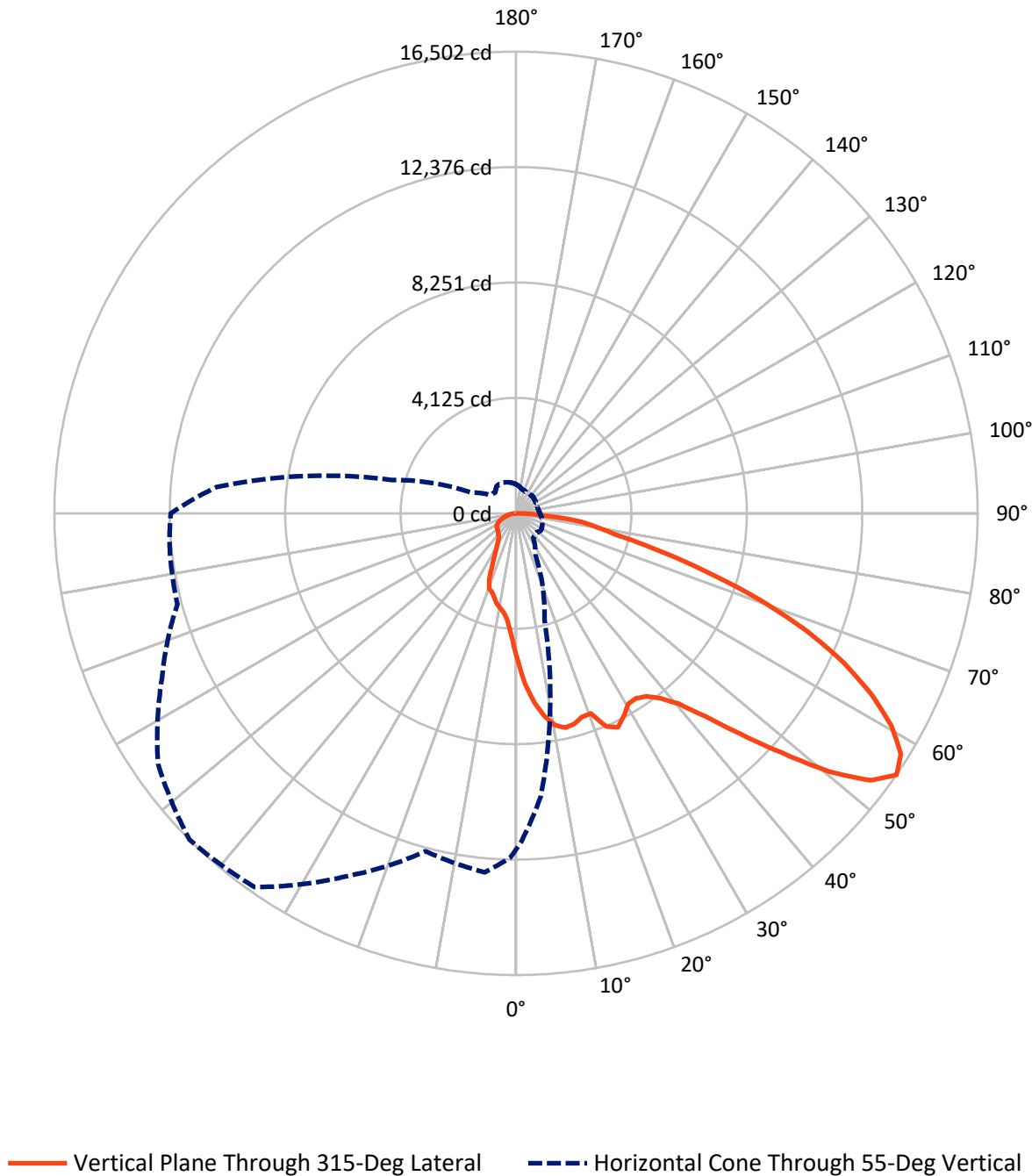
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P647396  
CATALOG NUMBER: GALN-SA4D-835-U-SLR

## Luminous Intensity Polar Plot



REPORT NUMBER: P647396

CATALOG NUMBER: GALN-SA4D-835-U-SLR

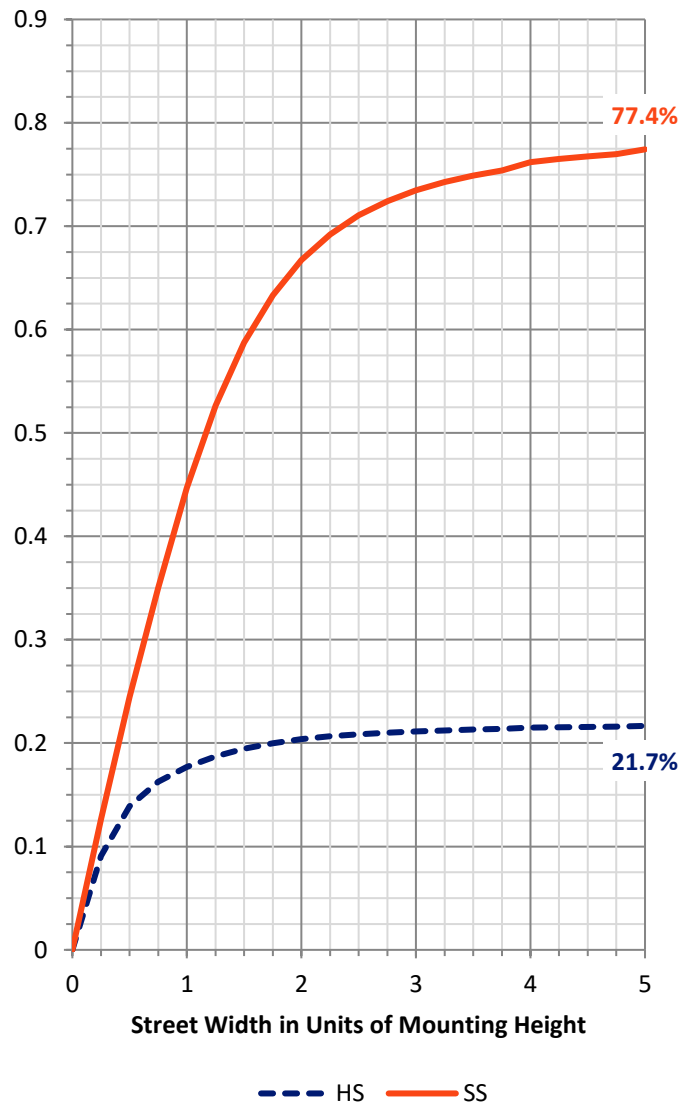
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4518.1	0.0	4518.1
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	16136.6	0.0	16136.6
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	20654.8	0.0	20654.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.3	2.1
10°-20°	1165.5	5.6
20°-30°	2013.5	9.7
30°-40°	2340.0	11.3
40°-50°	3264.8	15.8
50°-60°	4430.0	21.4
60°-70°	4214.6	20.4
70°-80°	2276.8	11.0
80°-90°	510.3	2.5
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°	20654.8	100.0
0°-180°	20654.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P647396

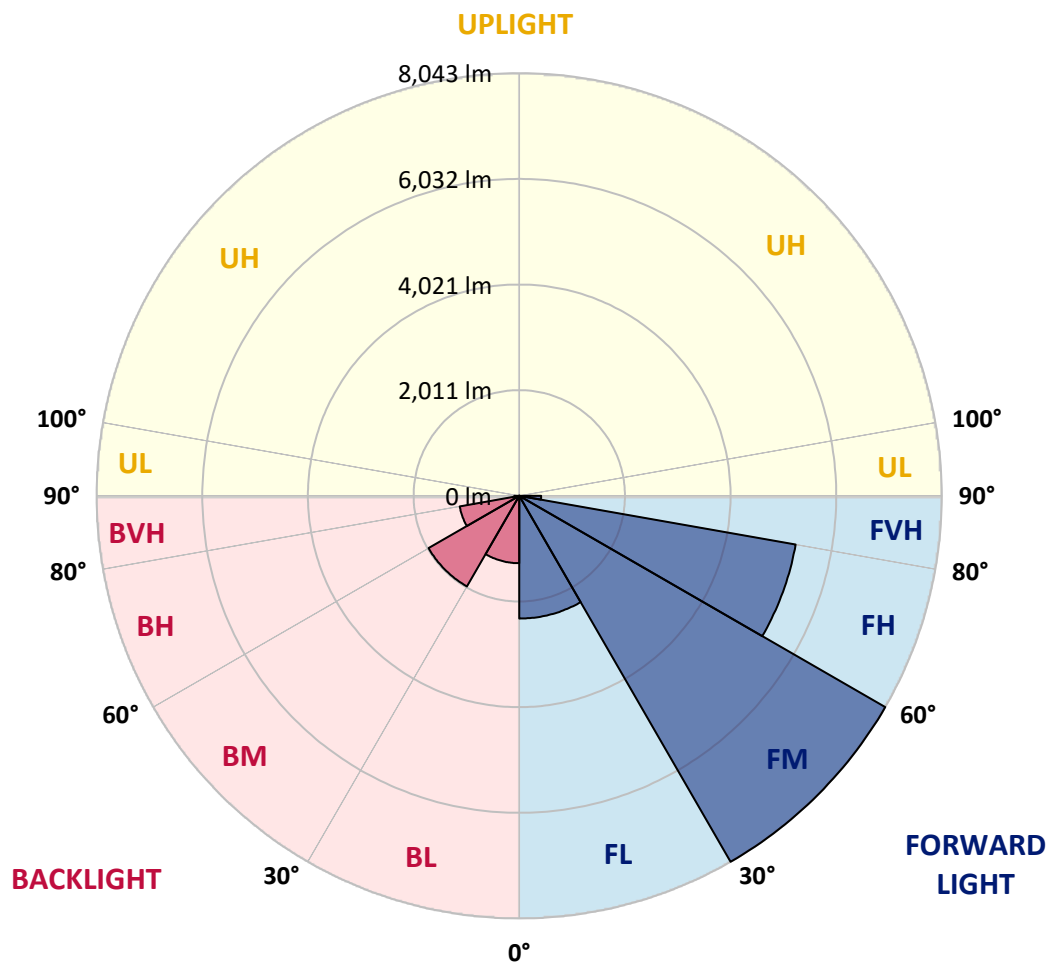
CATALOG NUMBER: GALN-SA4D-835-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2336.1	11.3			
FM	(30°-60°)	8042.5	38.9			
FH	(60°-80°)	5341.0	25.9			G3/7500
FVH	(80°-90°)	417.0	2.0			G3/500
BL	(0°-30°)	1282.3	6.2	B3/2500		
BM	(30°-60°)	1992.2	9.6	B2/2500		
BH	(60°-80°)	1150.4	5.6	B3/2500		G3/2500
BVH	(80°-90°)	93.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





REPORT NUMBER: P647396

CATALOG NUMBER: GALN-SA4D-835-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5
2.5°	5758.6	5736.8	5675.4	5514.7	5352.5	5187.6	5060.9	4902.8	4737.9	4649.4	4536.3
5°	5837.6	5813.1	5668.6	5306.2	4977.8	4633.0	4357.8	4116.5	4018.4	3874.0	3758.2
7.5°	5652.3	5641.4	5424.7	4904.2	4454.5	4003.5	3691.5	3497.9	3322.1	3256.7	3270.4
10°	5483.3	5439.7	5168.6	4488.5	3963.9	3597.4	3373.9	3184.5	3060.5	3027.8	3034.6
12.5°	5343.0	5284.4	4964.1	4209.3	3750.0	3457.0	3172.2	2974.7	2861.6	2893.0	2999.2
15°	5314.4	5235.3	4878.3	4113.9	3632.8	3255.4	2943.3	2715.8	2631.3	2699.4	2869.8
17.5°	5499.6	5400.2	5025.5	4145.2	3521.1	3049.6	2666.7	2406.5	2335.6	2444.6	2666.7
20°	6095.2	5948.0	5484.7	4326.5	3510.2	2947.4	2505.9	2244.3	2274.3	2481.4	2713.0
22.5°	7196.2	6975.4	6288.7	4590.8	3567.4	2921.5	2473.2	2336.9	2501.8	2677.6	2830.2
25°	7414.2	7241.2	6433.1	4650.7	3555.1	2903.8	2565.9	2634.0	2817.9	2905.2	2852.0
27.5°	7536.8	7339.3	6423.6	4353.7	3179.1	2634.0	2452.7	2565.9	2612.2	2527.8	2383.3
30°	7823.0	7617.3	6585.7	4041.6	2617.6	1954.1	1712.9	1666.5	1697.9	1714.2	1662.5
32.5°	8216.8	8013.8	6890.9	3837.2	2263.3	1616.1	1379.0	1313.6	1298.6	1280.9	1260.5
35°	8726.5	8414.4	7190.8	3706.4	2117.5	1494.8	1276.8	1226.4	1206.0	1181.4	1159.6
37.5°	9244.3	8917.2	7569.6	3568.8	2020.8	1410.3	1208.6	1185.5	1150.1	1124.2	1092.8
40°	9794.8	9428.2	7914.3	3448.9	1926.8	1355.8	1159.6	1156.9	1110.5	1080.6	1043.8
42.5°	10271.7	9894.2	8222.3	3375.3	1854.5	1298.6	1129.6	1137.8	1090.1	1045.1	997.5
45°	10650.5	10279.9	8507.1	3375.3	1796.0	1241.4	1124.2	1118.8	1071.1	1015.2	960.7
47.5°	10983.0	10600.1	8785.0	3461.2	1759.2	1193.7	1094.2	1103.7	1054.7	983.8	930.7
50°	11240.5	10902.6	9159.8	3594.7	1722.4	1155.6	1056.0	1107.9	1041.1	967.5	906.2
52.5°	11568.9	11266.4	9610.8	3777.3	1691.0	1113.3	1022.0	1107.9	1039.7	968.9	902.1
55°	12024.1	11705.2	10154.5	3928.5	1640.6	1073.8	992.0	1076.5	1035.6	962.1	891.2
57.5°	12342.9	12104.5	10538.8	4029.4	1568.4	1023.4	964.7	1046.5	1017.9	936.2	858.5
58°	12357.9	12124.9	10594.6	4052.6	1550.7	1013.8	957.9	1032.9	1009.8	925.3	847.6
60°	12186.2	11985.9	10605.5	4019.8	1449.9	966.1	922.5	977.0	966.1	861.2	789.0
62.5°	11562.1	11348.2	10165.4	3754.1	1316.3	907.5	868.0	902.1	877.6	771.3	704.5
65°	10675.0	10281.3	9260.6	3337.1	1220.9	844.9	794.4	797.2	771.3	695.0	636.3
67.5°	9493.6	9053.4	7840.7	2812.5	1148.7	775.3	707.2	700.4	669.1	620.0	572.3
70°	8039.7	7738.5	6371.7	2287.9	1068.3	699.1	609.1	605.0	585.9	549.1	506.9
72.5°	6516.2	6133.3	5145.4	1831.4	970.2	625.5	517.8	526.0	501.4	475.6	437.4
75°	4808.8	4558.1	3977.6	1468.9	838.0	545.0	432.0	434.7	423.8	396.5	366.5
77.5°	3166.8	3091.8	2845.2	964.7	644.6	433.3	352.9	355.6	347.5	323.0	291.6
80°	2131.2	2080.7	1928.1	621.4	430.6	313.4	272.6	275.2	273.9	248.0	205.8
82.5°	1313.6	1291.8	1242.8	419.7	298.4	224.8	179.9	188.1	203.0	174.5	140.4
85°	620.0	621.4	750.8	228.9	175.8	144.5	98.1	104.9	104.9	104.9	79.0
87.5°	80.4	84.5	103.6	96.8	64.0	54.5	35.4	30.0	25.9	34.1	24.5
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: P647396

CATALOG NUMBER: GALN-SA4D-835-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5
2.5°	4496.8	4469.5	4410.9	4397.2	4389.1	4412.3	4351.0	4367.3	4340.1	4416.4	4404.1
5°	3765.0	3767.7	3815.4	3846.8	3857.7	3846.8	3805.9	3735.1	3680.5	3658.7	3664.2
7.5°	3244.5	3292.2	3373.9	3465.2	3548.3	3572.9	3549.7	3414.8	3267.6	3175.0	3145.0
10°	3071.4	3135.4	3229.5	3301.7	3375.3	3433.9	3446.1	3341.2	3166.8	2947.4	2861.6
12.5°	3080.9	3168.2	3258.1	3281.2	3274.4	3297.6	3286.7	3269.0	3154.6	2875.2	2732.1
15°	2991.1	3094.6	3157.3	3145.0	3123.2	3102.8	3074.1	3029.2	2988.3	2792.1	2634.0
17.5°	2783.9	2890.2	2942.0	2946.0	2946.0	2940.6	2871.1	2854.7	2849.3	2753.9	2657.2
20°	2822.1	2880.7	2857.5	2819.3	2830.2	2867.0	2826.2	2817.9	2849.3	2891.5	2873.8
22.5°	2843.9	2823.4	2649.0	2480.0	2441.9	2556.3	2579.5	2670.8	2797.5	2950.1	3049.6
25°	2708.9	2544.0	2232.0	2041.3	1933.6	2039.9	2178.9	2347.8	2537.2	2733.5	2849.3
27.5°	2264.7	2139.4	1915.9	1744.2	1650.2	1666.5	1785.1	1939.0	2114.8	2247.1	2331.5
30°	1706.1	1650.2	1534.4	1475.7	1418.6	1404.9	1455.3	1513.9	1591.6	1608.0	1629.7
32.5°	1256.4	1248.2	1255.0	1236.0	1225.0	1223.7	1208.6	1222.3	1230.5	1240.0	1220.9
35°	1136.4	1125.6	1106.5	1101.1	1094.2	1096.9	1090.1	1083.3	1088.8	1096.9	1102.4
37.5°	1075.1	1058.8	1031.5	1022.0	1022.0	1026.0	1015.2	1012.4	1022.0	1047.9	1061.5
40°	1027.5	1008.3	977.0	964.7	973.0	983.8	968.9	963.4	986.6	1013.8	1035.6
42.5°	982.5	967.5	937.5	923.9	930.7	951.1	929.3	925.3	955.2	985.2	1011.1
45°	944.3	929.3	902.1	895.3	898.0	917.0	902.1	902.1	930.7	963.4	986.6
47.5°	914.3	895.3	877.6	872.1	874.8	885.7	883.0	883.0	910.2	944.3	967.5
50°	884.4	868.0	844.9	847.6	854.4	869.4	868.0	872.1	899.4	941.6	966.1
52.5°	870.8	846.2	820.3	823.0	843.4	861.2	855.7	859.8	891.2	970.2	1005.6
55°	855.7	823.0	793.1	797.2	820.3	846.2	839.4	844.9	881.7	989.3	1038.3
57.5°	827.2	789.0	756.3	759.0	793.1	820.3	809.4	816.2	859.8	968.9	1020.6
58°	814.9	782.1	750.8	752.1	784.9	814.9	802.6	808.1	853.0	963.4	1012.4
60°	763.1	744.0	716.8	718.1	749.5	775.3	768.5	774.0	817.6	923.9	960.7
62.5°	692.3	681.3	674.5	674.5	693.6	718.1	724.9	731.7	771.3	835.3	868.0
65°	615.9	615.9	617.3	617.3	629.5	660.9	665.0	682.7	719.5	750.8	775.3
67.5°	564.2	561.4	564.2	557.3	562.7	581.8	602.3	618.6	656.8	678.6	686.8
70°	497.4	496.0	497.4	487.8	494.6	511.0	524.6	551.9	591.4	607.8	611.8
72.5°	432.0	432.0	434.7	427.9	427.9	445.6	455.2	485.1	521.9	531.4	532.8
75°	363.9	367.9	367.9	358.4	361.1	372.0	384.3	408.8	442.9	449.7	449.7
77.5°	288.8	303.9	303.9	294.3	298.4	299.8	316.1	328.4	354.3	357.0	346.1
80°	209.8	224.8	237.1	228.9	235.8	227.5	237.1	245.3	271.2	258.9	241.2
82.5°	149.9	160.8	170.3	171.7	164.9	149.9	162.2	163.5	175.8	159.4	149.9
85°	83.2	92.6	104.9	99.4	88.6	79.0	83.2	85.8	84.5	80.4	74.9
87.5°	21.8	23.2	25.9	19.1	17.7	15.0	20.4	20.4	23.2	24.5	23.2
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: P647396

CATALOG NUMBER: GALN-SA4D-835-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5
2.5°	4413.6	4473.6	4603.0	4701.1	4821.1	4966.9	5138.6	5311.6	5498.3	5556.9	5638.7
5°	3651.9	3801.8	3864.5	4043.0	4220.1	4485.9	4769.3	5097.7	5457.4	5630.5	5796.7
7.5°	3120.5	3200.9	3266.3	3397.1	3609.7	3932.6	4288.3	4698.5	5208.0	5460.2	5704.1
10°	2834.3	2842.5	2922.9	3085.0	3270.4	3555.1	3891.7	4351.0	4919.2	5225.7	5511.9
12.5°	2644.9	2609.5	2696.7	2865.6	3075.5	3338.5	3647.8	4085.2	4710.7	5025.5	5371.6
15°	2478.7	2422.8	2488.2	2661.3	2868.4	3177.7	3510.2	3973.5	4628.9	4995.5	5379.8
17.5°	2482.7	2328.8	2352.0	2497.8	2703.5	3018.3	3421.6	3969.4	4753.0	5175.4	5630.5
20°	2789.4	2542.7	2437.8	2465.0	2664.0	3007.3	3462.5	4160.2	5160.4	5776.3	6262.7
22.5°	3090.5	2942.0	2773.0	2717.2	2826.2	3185.9	3722.8	4611.2	6046.1	6974.1	7852.9
25°	2985.6	3112.3	3070.1	2991.1	3015.6	3314.0	3899.9	4981.8	6734.3	7779.4	8605.2
27.5°	2388.7	2619.1	2665.3	2664.0	2673.6	2918.8	3507.4	4732.5	6820.1	7933.4	8722.4
30°	1678.8	1699.3	1723.8	1771.5	1815.1	2034.5	2744.4	4154.8	6782.0	8002.9	8793.2
32.5°	1211.4	1238.6	1272.7	1338.1	1441.7	1721.0	2401.0	3970.7	6983.6	8290.4	9000.4
35°	1107.9	1139.2	1171.9	1246.8	1345.0	1603.8	2264.7	3894.5	7314.7	8756.4	9372.4
37.5°	1075.1	1110.5	1139.2	1193.7	1272.7	1519.3	2140.7	3842.7	7654.1	9249.7	9871.0
40°	1052.0	1092.8	1116.0	1159.6	1214.1	1441.7	2030.3	3801.8	7982.5	9700.7	10271.7
42.5°	1031.5	1073.8	1103.7	1135.1	1180.1	1372.2	1932.2	3760.9	8267.2	10138.1	10671.0
45°	1007.0	1060.2	1098.3	1122.8	1162.4	1313.6	1857.3	3728.3	8591.5	10526.5	11074.3
47.5°	986.6	1045.1	1092.8	1121.5	1136.4	1272.7	1797.4	3773.2	8981.2	10932.6	11449.0
50°	987.9	1043.8	1103.7	1148.7	1109.2	1238.6	1760.6	3951.7	9488.2	11415.0	11744.7
52.5°	1031.5	1099.6	1147.3	1158.3	1071.1	1197.8	1741.5	4263.7	10087.7	11841.5	12043.2
55°	1080.6	1151.5	1203.2	1196.4	1050.6	1146.0	1737.4	4596.2	10744.6	12338.8	12431.5
57.5°	1062.8	1166.4	1245.4	1210.0	1052.0	1095.6	1719.7	4864.7	11293.7	12710.8	12815.8
58°	1057.4	1161.0	1250.9	1207.3	1047.9	1080.6	1715.6	4887.9	11370.0	12736.7	12870.2
60°	1004.3	1113.3	1246.8	1186.9	1024.7	1039.7	1670.6	4962.8	11349.6	12603.2	12903.0
62.5°	907.5	997.5	1152.8	1087.4	953.9	985.2	1569.8	4870.1	10796.3	11960.0	12424.6
65°	798.5	865.3	968.9	956.6	853.0	929.3	1432.2	4503.6	9688.5	10916.2	11405.4
67.5°	716.8	771.3	836.6	818.9	767.2	854.4	1283.7	3883.6	8445.8	9662.6	10278.5
70°	633.6	675.9	708.6	696.3	680.0	780.8	1151.5	3151.8	7254.8	8471.6	9068.5
72.5°	549.1	588.7	615.9	598.2	588.7	703.1	1043.8	2445.9	5730.0	6989.1	7756.2
75°	459.2	498.7	517.8	497.4	491.9	620.0	884.4	1827.3	4299.1	5387.9	6050.2
77.5°	355.6	397.9	422.4	415.6	418.4	509.7	714.0	1250.9	3074.1	3672.3	4370.0
80°	249.4	295.7	312.0	305.2	324.3	388.4	504.2	794.4	2120.3	2383.3	2875.2
82.5°	154.0	197.6	200.3	207.1	220.7	287.5	380.1	483.7	1331.3	1376.3	1733.3
85°	77.7	94.0	100.9	111.7	124.0	175.8	216.7	299.8	857.1	648.6	968.9
87.5°	25.9	27.2	32.7	40.9	50.4	72.2	92.6	122.6	212.6	117.2	299.8
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: P647396

CATALOG NUMBER: GALN-SA4D-835-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5	5183.5
2.5°	5803.5	5919.4	6003.9	6081.6	6006.5	5999.7	5926.2	5807.7	5758.6	5758.6
5°	6145.5	6416.8	6636.2	6776.5	6716.5	6572.1	6333.6	6029.7	5866.2	5837.6
7.5°	6239.6	6775.1	7182.5	7327.0	7226.2	6907.3	6450.8	5938.4	5704.1	5652.3
10°	6182.3	6878.7	7476.9	7705.8	7565.4	7083.1	6460.4	5832.2	5543.2	5483.3
12.5°	6122.4	6892.3	7531.4	7862.5	7771.2	7224.8	6529.8	5762.6	5428.9	5343.0
15°	6166.0	6897.8	7464.7	7806.7	7865.2	7395.1	6644.3	5813.1	5405.7	5314.4
17.5°	6441.3	7001.4	7369.2	7645.8	7851.6	7626.8	6970.0	6054.2	5612.8	5499.6
20°	7016.3	7249.3	7423.8	7637.7	7968.8	8099.6	7636.3	6716.5	6194.6	6095.2
22.5°	8681.4	8639.2	8282.2	8278.1	8757.8	9282.4	9251.1	8062.9	7277.9	7196.2
25°	9305.6	9109.3	8592.9	8467.5	8678.8	9488.2	9370.9	8338.1	7613.2	7414.2
27.5°	9061.7	8575.2	8235.9	8207.2	8137.8	8902.2	9184.3	8449.8	7730.3	7536.8
30°	9046.6	8331.3	7846.1	7903.4	7970.2	8700.5	9287.9	8800.1	8030.1	7823.0
32.5°	9083.4	8365.3	7874.8	7885.7	8084.6	8730.5	9402.3	9181.5	8423.9	8216.8
35°	9232.0	8558.8	8057.4	8031.5	8342.2	8926.7	9597.2	9781.2	8962.1	8726.5
37.5°	9471.8	8944.4	8391.3	8384.4	8835.5	9281.1	9839.7	10386.2	9497.7	9244.3
40°	9824.8	9395.5	8985.3	8948.5	9505.9	9857.4	10154.5	11030.7	10120.4	9794.8
42.5°	10251.3	9936.5	9768.9	9914.7	10450.2	10504.7	10645.0	11626.1	10650.5	10271.7
45°	10646.5	10631.4	10864.4	11251.5	11563.5	11236.4	11157.4	12025.4	11062.0	10650.5
47.5°	11116.6	11522.6	12225.8	12792.6	13119.6	12088.1	11594.8	12285.7	11361.8	10983.0
50°	11593.5	12589.5	13712.4	14502.7	14572.3	13013.4	11896.0	12531.0	11634.4	11240.5
52.5°	12094.9	13441.2	14936.0	15854.5	15719.6	13818.7	12187.6	12697.2	11915.1	11568.9
55°	12531.0	13963.1	15620.1	16501.7	16304.2	14309.2	12502.3	12877.1	12315.7	12024.1
57.5°	12774.9	14006.7	15449.8	16219.7	16005.8	14213.9	12646.8	13010.6	12571.8	12342.9
58°	12810.3	13948.1	15298.5	16056.1	15838.1	14133.5	12645.4	13005.2	12588.2	12357.9
60°	12779.0	13568.0	14735.7	15410.2	15181.4	13629.3	12593.6	12903.0	12381.1	12186.2
62.5°	12488.7	12908.5	13764.2	14254.7	14189.3	12841.7	12381.1	12517.4	11750.2	11562.1
65°	12107.2	12009.1	12520.1	12867.5	12916.6	12251.6	12169.9	11683.4	10940.8	10675.0
67.5°	11643.9	10989.8	10988.5	11186.0	11267.8	11344.1	11729.7	10777.2	9774.3	9493.6
70°	10857.6	9418.6	8985.3	9218.3	9150.2	9794.8	10943.4	9504.5	8368.1	8039.7
72.5°	9416.0	7474.1	6780.5	7080.4	6908.6	7681.3	9575.4	7821.6	6919.5	6516.2
75°	7632.2	5590.9	4875.6	5150.8	5044.6	5826.7	7967.4	5680.9	4962.8	4808.8
77.5°	5926.2	4051.2	3635.5	3597.4	3676.4	4335.9	5844.4	3835.8	3271.8	3166.8
80°	3807.3	2899.8	2924.3	2875.2	2916.0	2733.5	3548.3	2447.3	2215.7	2131.2
82.5°	2505.9	2020.8	2409.1	2223.9	2112.1	1838.2	2327.4	1602.5	1359.9	1313.6
85°	1707.4	1488.0	1354.5	1035.6	1219.6	1415.8	1745.5	862.6	684.0	620.0
87.5°	771.3	517.8	380.1	234.4	370.7	427.9	847.6	100.9	77.7	80.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)