

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: P527612

Luminaire Tested: **GALN-SA2C-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7741 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

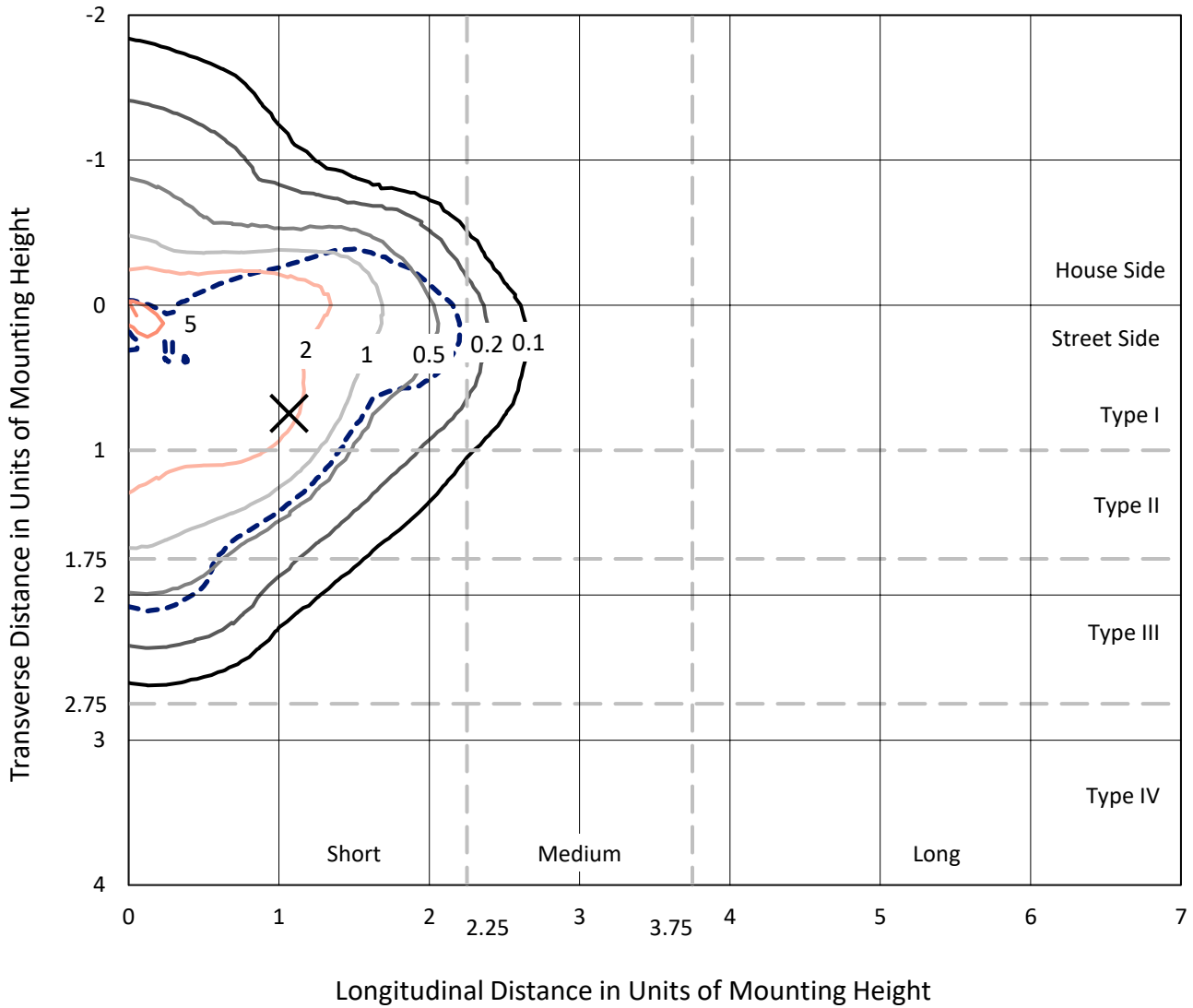
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527612
 CATALOG NUMBER: GALN-SA2C-827-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

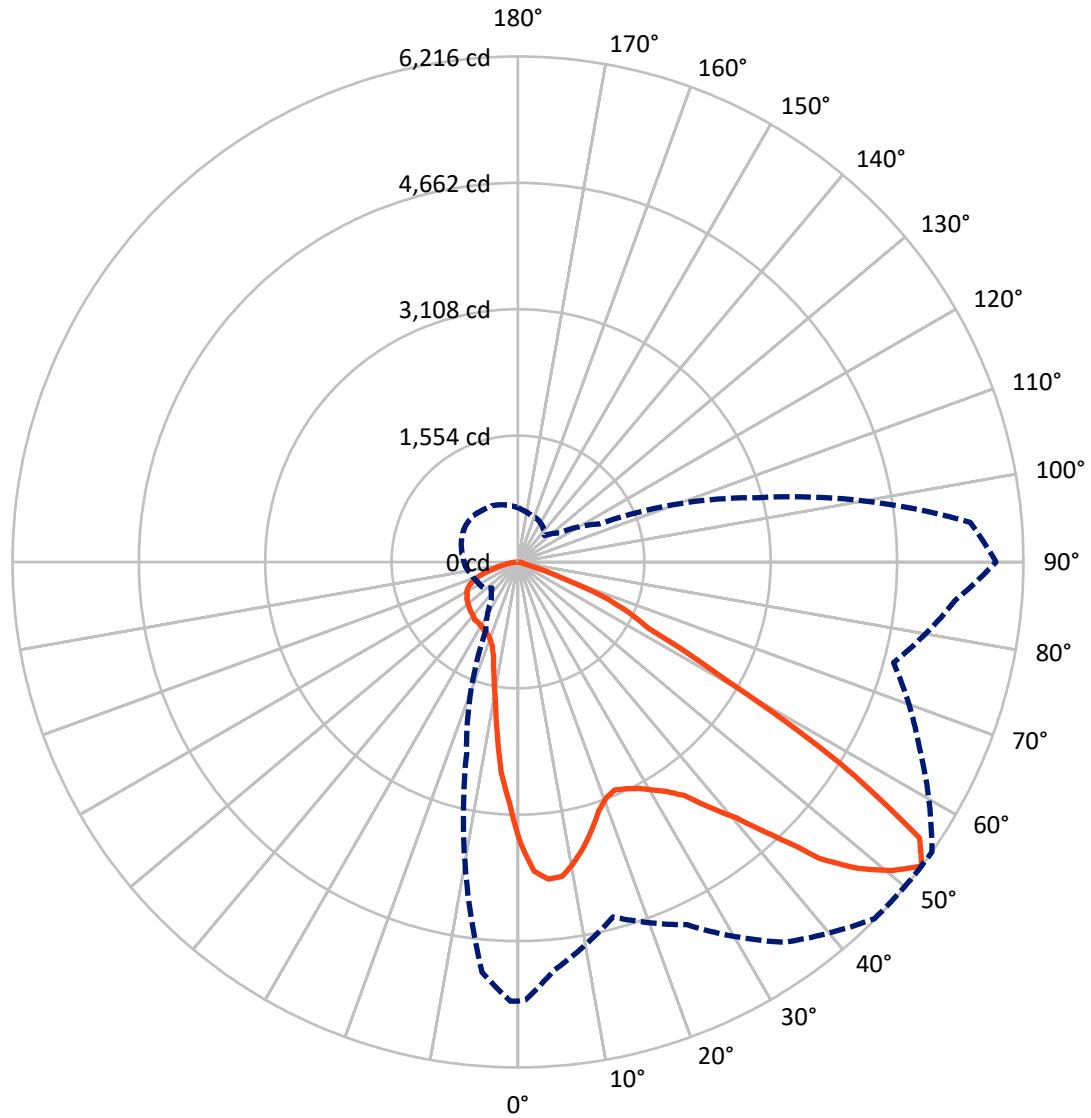
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P527612
CATALOG NUMBER: GALN-SA2C-827-U-SLL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P527612
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2361.4	0.0	2361.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5379.6	0.0	5379.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	7741.0	0.0	7741.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	3.4
10°-20°	568.8	7.3
20°-30°	862.5	11.1
30°-40°	1246.2	16.1
40°-50°	1665.2	21.5
50°-60°	1858.8	24.0
60°-70°	1019.6	13.2
70°-80°	220.4	2.8
80°-90°	35.7	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°	7741.0	100.0
0°-180°	7741.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527612

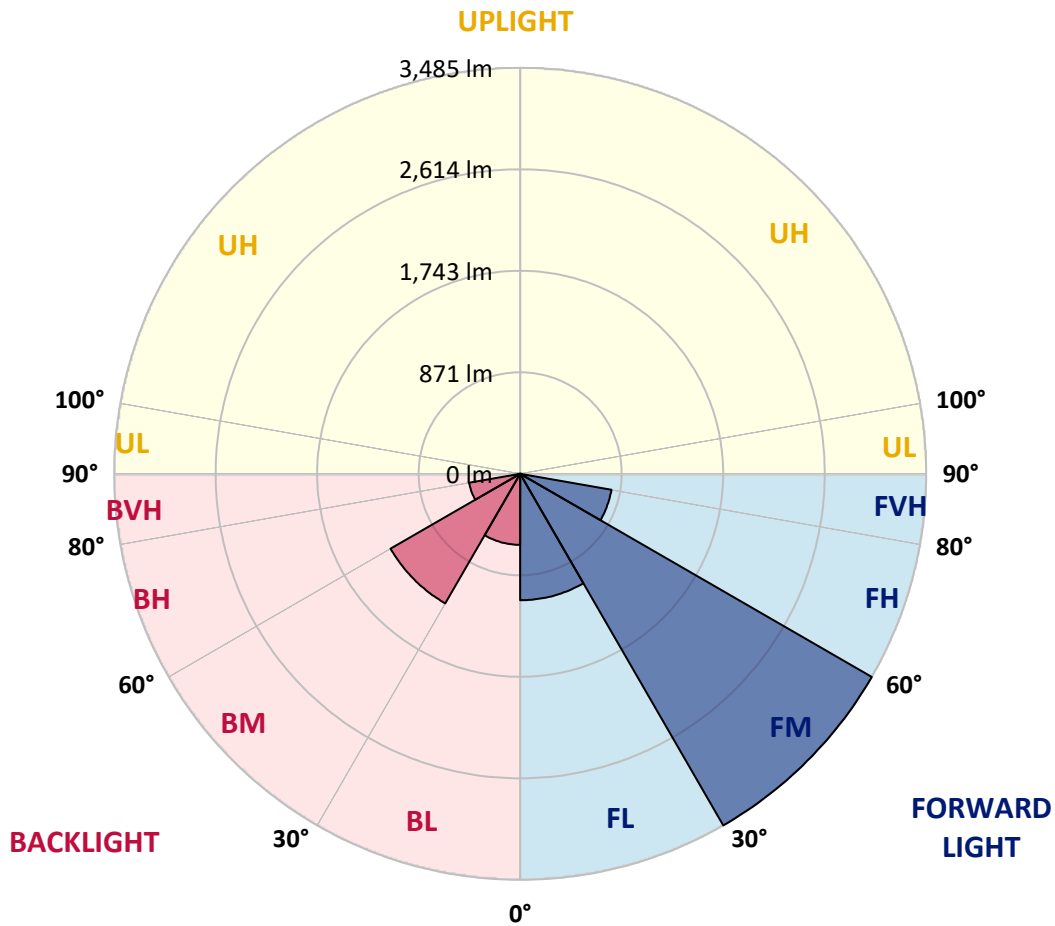
CATALOG NUMBER: GALN-SA2C-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.4	14.0			
FM (30°-60°)	3485.4	45.0			
FH (60°-80°)	795.6	10.3			G1/1800
FVH (80°-90°)	13.2	0.2			G1/100
BL (0°-30°)	609.7	7.9	B2/1000		
BM (30°-60°)	1284.8	16.6	B2/2500		
BH (60°-80°)	444.5	5.7	B1/500		G1/500
BVH (80°-90°)	22.5	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 II Short





REPORT NUMBER: P527612

CATALOG NUMBER: GALN-SA2C-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1
2.5°	3623.8	3603.4	3621.5	3707.4	3757.1	3791.0	3812.5	3809.1	3727.7	3648.6	3648.6
5°	3517.5	3491.5	3528.8	3723.2	3918.8	3935.7	3964.0	3917.6	3797.8	3653.1	3472.3
7.5°	3210.1	3229.3	3291.5	3546.9	3801.2	3928.9	3962.9	3904.1	3709.7	3439.5	3173.9
10°	2944.4	2989.7	3133.2	3409.0	3643.0	3809.1	3846.4	3763.9	3610.2	3279.0	3041.7
12.5°	2852.9	2824.6	2984.0	3259.8	3483.6	3572.9	3589.9	3595.5	3491.5	3197.6	2908.3
15°	2841.6	2859.7	2984.0	3193.1	3331.0	3335.5	3363.8	3407.9	3421.4	3253.0	2970.4
17.5°	3004.4	2982.9	3110.6	3276.8	3211.2	3145.6	3152.4	3215.7	3327.6	3300.5	3166.0
20°	3245.1	3293.7	3394.3	3377.4	3201.0	3034.9	3036.0	3095.9	3316.3	3497.2	3438.4
22.5°	3645.2	3692.7	3767.3	3562.7	3201.0	3002.1	2963.7	3045.0	3388.7	3731.1	3745.8
25°	4010.3	4097.4	4117.7	3876.9	3361.5	3032.6	3007.7	3088.0	3461.0	3959.5	4098.5
27.5°	4342.6	4374.3	4463.6	4079.3	3450.8	3053.0	3050.7	3153.6	3552.6	4073.6	4413.8
30°	4604.9	4601.5	4652.3	4207.0	3593.2	3167.1	3057.5	3251.9	3672.4	4262.4	4705.5
32.5°	4783.5	4821.9	4929.3	4384.5	3653.1	3275.6	3189.7	3367.2	3818.2	4351.7	4911.2
35°	5097.7	5164.4	5028.7	4482.8	3843.0	3383.0	3282.4	3524.3	3890.5	4448.9	5163.2
37.5°	5393.8	5343.0	5205.1	4535.9	3966.2	3581.9	3488.1	3828.3	4115.4	4660.3	5330.5
40°	5583.7	5582.6	5337.3	4578.9	4053.3	3886.0	3880.3	4136.9	4391.2	4793.6	5518.2
42.5°	5666.2	5745.3	5391.6	4574.3	4236.4	4254.5	4368.6	4598.1	4586.8	4820.8	5513.6
44°	5779.3	5826.7	5485.4	4584.5	4358.5	4503.1	4772.2	4918.0	4757.5	4806.1	5508.0
45°	5774.7	5778.1	5352.0	4598.1	4462.4	4711.1	4951.9	5198.3	4907.8	4774.4	5582.6
47.5°	5642.5	5604.1	5239.0	4497.5	4786.8	5260.4	5483.1	5632.3	5093.2	4706.6	5489.9
50°	5381.4	5337.3	4964.3	4454.5	4854.7	5601.8	5909.2	5963.5	5261.6	4639.9	5398.3
52.5°	5399.5	5387.0	5042.3	4519.0	4922.5	5709.2	6202.0	6215.6	5452.6	4780.1	5399.5
55°	5722.7	5679.8	5266.1	4599.2	4872.7	5583.7	6015.5	5991.8	5388.2	4695.3	5498.9
57.5°	5236.7	5265.0	4956.4	4281.6	4264.6	4539.3	4729.2	4670.4	4496.4	4237.5	5115.8
60°	4225.1	4305.3	4334.7	3580.8	3218.0	3076.7	3020.2	2916.2	2945.6	3481.3	4494.1
62.5°	3623.8	3619.2	3803.5	3246.2	2108.0	1813.0	1785.9	1809.6	2148.7	3427.1	4401.4
65°	2873.2	2950.1	3006.6	2751.2	1668.3	1346.2	1345.1	1495.4	1859.4	2864.2	3553.7
67.5°	1824.3	1924.9	1995.0	1759.9	1115.6	958.5	932.5	1113.4	1288.5	1878.6	2139.7
70°	1028.6	1076.1	1107.7	1015.0	709.8	497.3	467.9	510.9	778.8	1216.2	1268.2
72.5°	396.7	418.2	461.2	464.6	267.9	160.5	130.0	156.0	327.8	481.5	458.9
75°	61.0	65.6	92.7	110.8	76.9	58.8	62.2	64.4	91.6	124.3	104.0
77.5°	29.4	29.4	28.3	32.8	38.4	41.8	45.2	49.7	54.3	59.9	57.6
80°	19.2	19.2	19.2	22.6	28.3	33.9	38.4	40.7	43.0	47.5	45.2
82.5°	12.4	12.4	12.4	17.0	22.6	28.3	30.5	36.2	40.7	47.5	44.1
85°	6.8	6.8	6.8	11.3	17.0	23.7	22.6	18.1	10.2	1.1	2.3
87.5°	2.3	2.3	2.3	2.3	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: P527612

CATALOG NUMBER: GALN-SA2C-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1
2.5°	3553.7	3501.7	3497.2	3390.9	3296.0	3249.6	3212.3	3108.3	3130.9	3071.0	3069.9
5°	3381.9	3275.6	3103.8	2962.5	2821.2	2793.0	2669.8	2562.4	2565.8	2488.9	2502.5
7.5°	3073.3	2999.8	2790.7	2569.2	2381.6	2248.2	2131.8	2061.7	1972.4	1941.9	1926.0
10°	2877.8	2787.3	2552.2	2274.2	2063.9	1992.7	1880.8	1818.7	1727.1	1681.9	1650.2
12.5°	2791.9	2659.6	2365.7	2083.2	1943.0	1869.5	1774.6	1661.5	1553.0	1511.2	1453.6
15°	2800.9	2642.7	2311.5	2006.3	1837.9	1695.5	1610.7	1485.2	1374.5	1301.0	1259.2
17.5°	2937.7	2745.5	2336.3	1947.5	1705.6	1527.0	1360.9	1225.3	1137.1	1081.7	1068.1
20°	3260.9	2999.8	2378.2	1852.6	1573.4	1350.7	1146.1	1004.8	937.0	935.9	937.0
22.5°	3529.9	3271.1	2462.9	1796.1	1441.1	1124.7	921.2	876.0	862.4	890.7	894.1
25°	3892.8	3576.3	2608.7	1766.7	1319.1	958.5	833.0	816.1	815.0	851.1	852.3
27.5°	4264.6	3843.0	2695.8	1680.8	1194.7	872.6	779.9	776.5	794.6	833.0	829.6
30°	4517.8	4066.8	2852.9	1577.9	1047.8	796.9	758.4	763.0	787.8	817.2	821.7
32.5°	4812.8	4287.3	2893.6	1521.4	957.4	733.6	706.4	716.6	748.3	794.6	819.5
35°	5150.8	4443.2	2955.8	1444.5	923.5	685.0	671.4	682.7	721.1	751.7	778.8
37.5°	5400.6	4719.0	2967.1	1384.6	886.2	657.8	636.4	673.7	696.3	739.2	752.8
40°	5586.0	4919.1	2996.4	1347.3	856.8	622.8	622.8	647.7	678.2	717.7	744.9
42.5°	5704.7	5064.9	3017.9	1313.4	800.3	612.6	607.0	631.8	672.5	711.0	723.4
44°	5777.0	5127.1	2996.4	1281.8	784.4	600.2	600.2	621.7	653.3	698.5	713.2
45°	5795.1	5205.1	2949.0	1280.6	765.2	585.5	583.2	623.9	645.4	700.8	709.8
47.5°	5865.2	5301.1	2954.6	1244.5	718.9	550.5	590.0	608.1	627.3	675.9	706.4
50°	5862.9	5361.0	2942.2	1191.3	685.0	510.9	576.5	596.8	616.0	665.8	678.2
52.5°	5878.7	5584.8	3056.3	1106.6	623.9	460.0	531.2	576.5	600.2	642.0	668.0
55°	5870.8	5712.6	3169.4	1043.3	538.0	429.5	492.8	545.9	579.8	623.9	636.4
57.5°	5362.2	5049.1	2933.1	924.6	445.3	393.3	438.6	514.3	557.2	602.5	618.3
60°	4381.1	3891.6	2418.9	680.4	366.2	361.7	408.0	504.1	522.2	561.8	588.9
62.5°	4048.8	3413.5	1918.1	519.9	313.1	331.2	376.4	455.5	483.8	532.4	557.2
65°	3168.2	2267.4	1188.0	351.5	275.8	297.3	340.2	399.0	445.3	490.6	519.9
67.5°	1876.3	1238.8	587.8	246.4	240.8	263.4	307.4	351.5	404.6	454.4	469.1
70°	1021.8	609.2	250.9	187.6	204.6	224.9	267.9	298.4	349.3	387.7	412.6
72.5°	327.8	185.4	125.5	139.0	156.0	179.7	205.7	243.0	279.2	301.8	322.1
75°	79.1	78.0	89.3	97.2	113.0	131.1	152.6	171.8	200.1	221.5	239.6
77.5°	55.4	59.9	68.9	80.3	85.9	92.7	106.2	120.9	133.4	149.2	160.5
80°	43.0	46.3	53.1	58.8	64.4	70.1	76.9	82.5	90.4	100.6	106.2
82.5°	40.7	43.0	49.7	53.1	50.9	49.7	54.3	56.5	57.6	61.0	64.4
85°	3.4	0.0	2.3	7.9	19.2	28.3	30.5	30.5	29.4	31.6	31.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	4.5	3.4
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: P527612

CATALOG NUMBER: GALN-SA2C-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1
2.5°	3056.3	3017.9	3032.6	3050.7	3024.7	2964.8	2980.6	2973.8	3034.9	3030.4	3091.4
5°	2562.4	2502.5	2509.3	2597.4	2569.2	2599.7	2538.7	2530.8	2542.1	2547.7	2557.9
7.5°	1961.1	1953.2	2021.0	2095.6	2130.6	2094.5	2034.6	2021.0	2008.6	1983.7	2040.2
10°	1600.5	1602.8	1598.3	1654.8	1694.3	1686.4	1650.2	1645.7	1622.0	1612.9	1644.6
12.5°	1428.7	1398.2	1383.5	1365.4	1395.9	1416.3	1400.4	1389.1	1390.3	1401.6	1406.1
15°	1262.6	1243.3	1211.7	1191.3	1206.0	1195.9	1190.2	1212.8	1207.2	1204.9	1232.0
17.5°	1076.1	1091.9	1089.6	1067.0	1086.2	1078.3	1077.2	1061.4	1039.9	1024.1	1033.1
20°	952.8	982.2	1004.8	1006.0	1016.1	1015.0	998.1	949.5	933.6	930.2	932.5
22.5°	908.8	924.6	951.7	990.1	990.1	972.1	951.7	895.2	880.5	864.7	857.9
25°	873.7	904.2	939.3	943.8	961.9	944.9	912.2	883.9	853.4	831.9	831.9
27.5°	855.6	889.6	915.5	923.5	948.3	934.8	900.9	864.7	828.5	827.4	808.2
30°	847.7	879.4	896.3	915.5	926.9	905.4	895.2	856.8	820.6	811.6	779.9
32.5°	824.0	869.2	900.9	896.3	905.4	896.3	881.6	850.0	809.3	789.0	785.6
35°	796.9	842.1	876.0	899.7	905.4	886.2	877.1	834.2	778.8	768.6	733.6
37.5°	782.2	809.3	851.1	889.6	897.5	887.3	856.8	812.7	757.3	746.0	715.5
40°	764.1	799.1	831.9	863.6	887.3	862.4	827.4	784.4	759.6	725.7	716.6
42.5°	750.5	790.1	817.2	852.3	879.4	846.6	805.9	776.5	741.5	718.9	692.9
44°	746.0	782.2	800.3	843.2	865.8	840.9	807.0	776.5	735.8	715.5	692.9
45°	730.2	779.9	799.1	837.6	856.8	836.4	793.5	763.0	733.6	708.7	685.0
47.5°	714.4	748.3	781.0	811.6	825.1	818.3	782.2	744.9	709.8	695.1	672.5
50°	709.8	743.7	774.3	802.5	818.3	804.8	772.0	735.8	695.1	671.4	652.2
52.5°	687.2	729.0	763.0	772.0	792.3	784.4	759.6	720.0	681.6	661.2	645.4
55°	654.4	698.5	744.9	756.2	785.6	773.1	735.8	698.5	665.8	635.2	614.9
57.5°	642.0	685.0	730.2	744.9	763.0	742.6	733.6	694.0	642.0	626.2	594.5
60°	610.4	664.6	701.9	735.8	737.0	731.3	715.5	670.3	627.3	597.9	575.3
62.5°	585.5	636.4	665.8	697.4	716.6	700.8	685.0	643.1	596.8	564.0	538.0
65°	549.3	595.7	620.5	639.8	661.2	659.0	631.8	601.3	552.7	526.7	501.9
67.5°	493.9	534.6	568.5	586.6	600.2	596.8	576.5	555.0	505.2	479.2	461.2
70°	427.3	469.1	490.6	500.7	514.3	521.1	505.2	495.1	451.0	417.1	400.1
72.5°	343.6	370.7	402.4	411.4	417.1	421.6	421.6	412.6	367.3	353.8	324.4
75°	253.2	274.7	298.4	298.4	308.6	309.7	312.0	306.3	272.4	254.3	247.5
77.5°	171.8	187.6	206.8	214.8	221.5	220.4	219.3	203.5	185.4	177.5	170.7
80°	111.9	127.7	136.8	146.9	153.7	152.6	154.9	143.5	135.6	122.1	124.3
82.5°	66.7	79.1	88.2	100.6	100.6	104.0	104.0	100.6	92.7	85.9	85.9
85°	31.6	41.8	47.5	55.4	59.9	61.0	54.3	46.3	38.4	35.0	38.4
87.5°	5.7	7.9	11.3	10.2	12.4	11.3	11.3	11.3	11.3	9.0	10.2
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: P527612

CATALOG NUMBER: GALN-SA2C-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1	3453.1
2.5°	3068.8	3125.3	3164.9	3230.4	3343.4	3433.9	3526.6	3595.5	3603.4	3623.8
5°	2595.2	2625.7	2726.3	2857.4	2950.1	3102.7	3201.0	3379.6	3446.3	3517.5
7.5°	2026.6	2076.4	2210.9	2299.0	2502.5	2693.5	2891.3	3111.7	3199.9	3210.1
10°	1709.0	1781.4	1872.9	2014.2	2125.0	2337.5	2583.9	2829.2	2927.5	2944.4
12.5°	1501.0	1593.7	1715.8	1817.5	1923.8	2109.2	2345.4	2648.3	2776.0	2852.9
15°	1301.0	1397.1	1531.6	1672.9	1766.7	1988.2	2266.3	2607.6	2773.8	2841.6
17.5°	1095.3	1184.6	1295.3	1447.9	1636.7	1885.4	2253.8	2743.3	2925.2	3004.4
20°	918.9	968.7	1097.5	1254.6	1490.9	1780.2	2258.4	2943.3	3210.1	3245.1
22.5°	850.0	861.3	912.2	1056.8	1315.7	1672.9	2338.6	3227.0	3529.9	3645.2
25°	796.9	794.6	808.2	905.4	1188.0	1631.0	2417.7	3488.1	3884.9	4010.3
27.5°	767.5	744.9	746.0	837.6	1097.5	1563.2	2519.5	3787.7	4287.3	4342.6
30°	752.8	748.3	734.7	772.0	999.2	1461.5	2536.4	4082.7	4524.6	4604.9
32.5°	743.7	699.7	682.7	696.3	906.5	1350.7	2599.7	4277.1	4818.5	4783.5
35°	698.5	659.0	647.7	661.2	840.9	1288.5	2557.9	4446.6	5038.9	5097.7
37.5°	681.6	646.5	623.9	612.6	779.9	1236.6	2536.4	4707.7	5252.5	5393.8
40°	665.8	628.5	601.3	590.0	732.4	1167.6	2529.6	4908.9	5498.9	5583.7
42.5°	647.7	623.9	593.4	573.1	674.8	1098.7	2451.6	4971.1	5574.7	5666.2
44°	642.0	605.8	574.2	567.4	652.2	1063.6	2435.8	5027.6	5640.2	5779.3
45°	636.4	602.5	566.3	557.2	644.3	1044.4	2414.3	5041.2	5748.7	5774.7
47.5°	620.5	599.1	564.0	539.2	627.3	1002.6	2349.9	4964.3	5638.0	5642.5
50°	608.1	583.2	547.1	498.5	604.7	967.5	2379.3	4936.0	5371.2	5381.4
52.5°	594.5	557.2	536.9	453.3	567.4	938.2	2441.5	5063.8	5401.7	5399.5
55°	578.7	538.0	488.3	414.8	505.2	900.9	2591.8	5315.8	5684.3	5722.7
57.5°	553.8	518.8	447.6	380.9	434.0	829.6	2543.2	4833.2	5229.9	5236.7
60°	521.1	488.3	405.8	354.9	356.0	654.4	2274.2	3766.2	4126.7	4225.1
62.5°	489.4	471.3	370.7	317.6	302.9	521.1	1922.7	3129.8	3542.4	3623.8
65°	452.1	408.0	340.2	289.4	260.0	365.1	1362.0	2338.6	2763.6	2873.2
67.5°	404.6	357.2	299.5	254.3	222.7	244.1	703.1	1329.2	1759.9	1824.3
70°	353.8	309.7	252.1	214.8	179.7	168.4	309.7	634.1	961.9	1028.6
72.5°	290.5	249.8	201.2	169.5	134.5	116.4	104.0	169.5	341.4	396.7
75°	210.2	182.0	151.5	120.9	94.9	74.6	61.0	50.9	56.5	61.0
77.5°	154.9	132.2	111.9	85.9	66.7	53.1	41.8	31.6	30.5	29.4
80°	120.9	107.4	89.3	68.9	52.0	39.6	29.4	21.5	19.2	19.2
82.5°	94.9	88.2	73.5	56.5	43.0	31.6	21.5	14.7	12.4	12.4
85°	36.2	36.2	53.1	46.3	32.8	22.6	14.7	7.9	6.8	6.8
87.5°	9.0	9.0	9.0	9.0	7.9	6.8	6.8	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)