

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: P527378

Luminaire Tested: **GALN-SA2B-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527378  
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-SA2B-827-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA 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: 6265 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

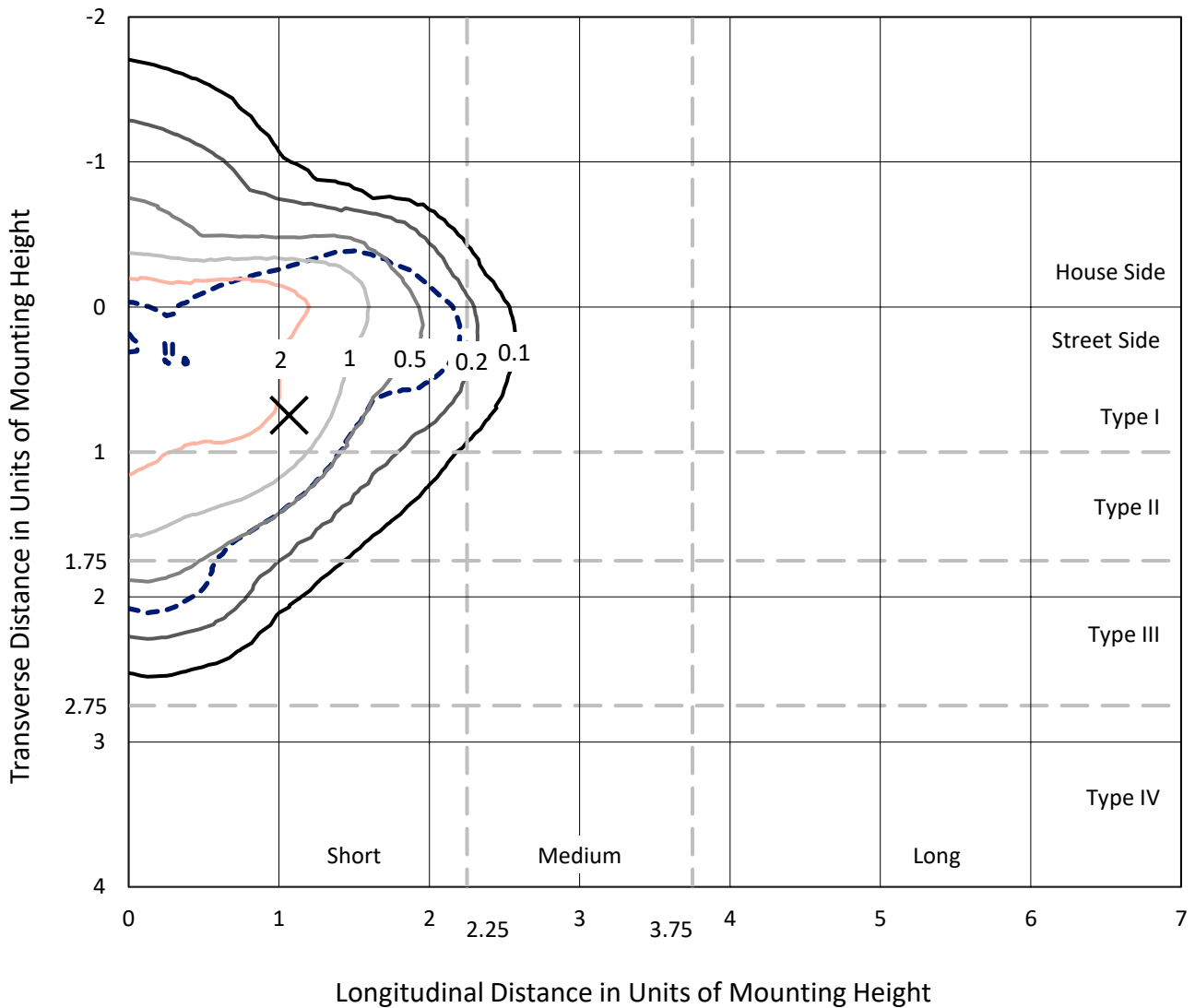
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527378  
 CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

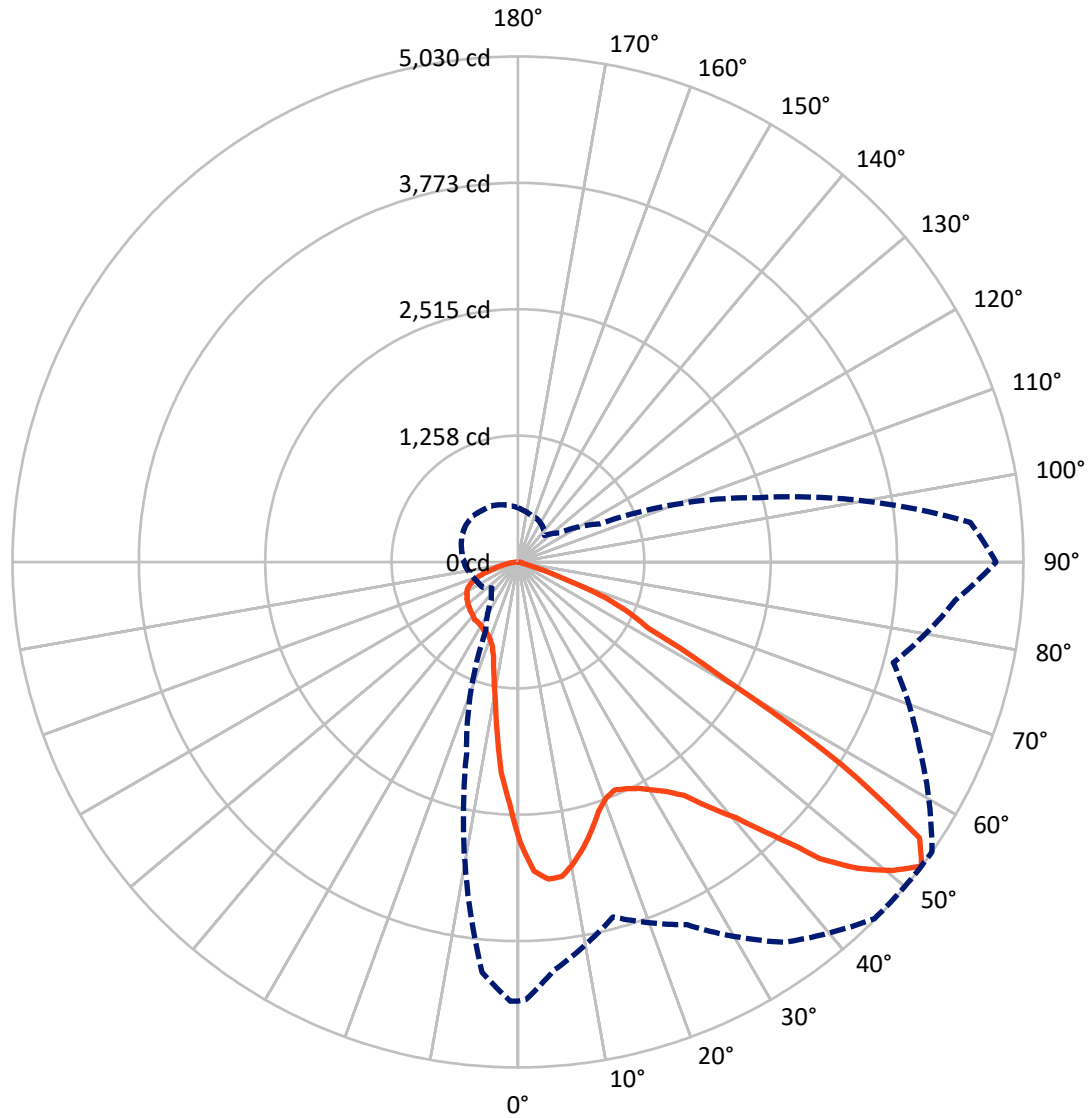
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P527378  
CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P527378  
 CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1911.2	0.0	1911.2
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	4353.8	0.0	4353.8
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	6265.0	0.0	6265.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.5	3.4
10°-20°	460.4	7.3
20°-30°	698.0	11.1
30°-40°	1008.6	16.1
40°-50°	1347.7	21.5
50°-60°	1504.3	24.0
60°-70°	825.2	13.2
70°-80°	178.4	2.8
80°-90°	28.9	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°	6265.0	100.0
0°-180°	6265.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P527378

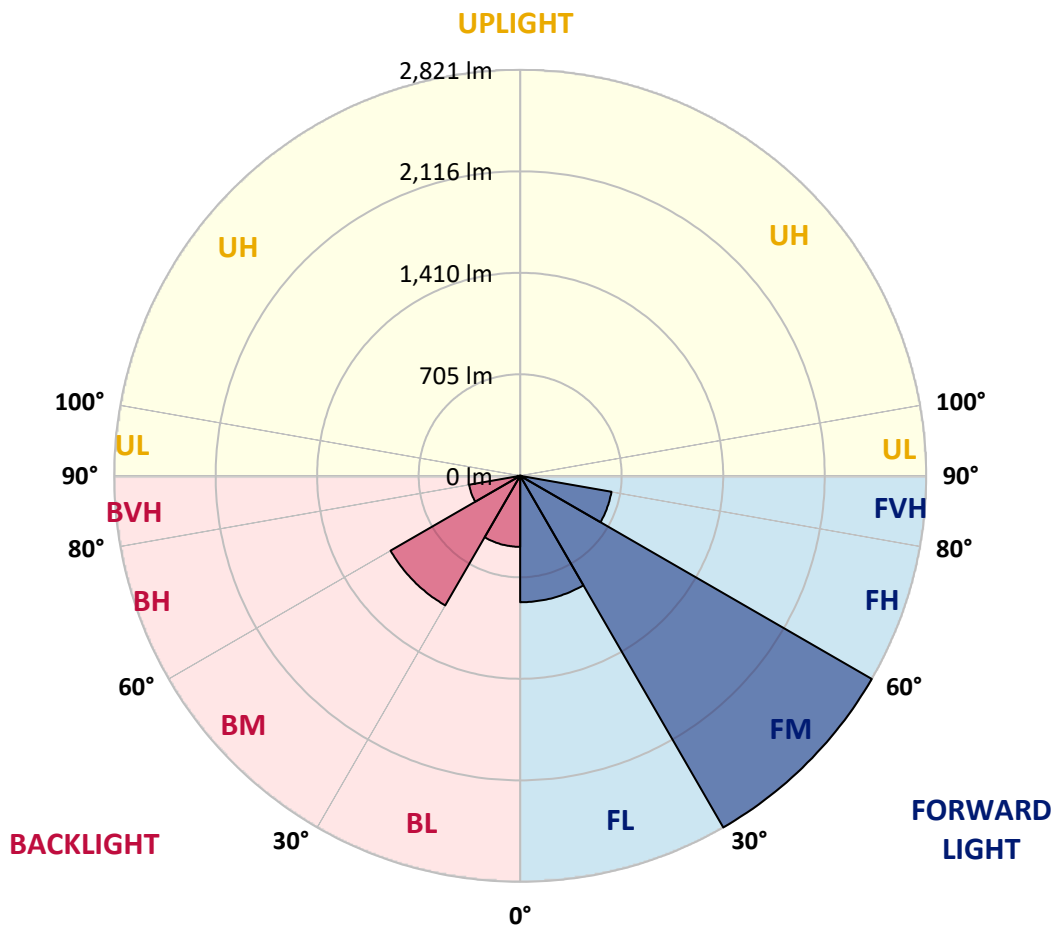
CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.5	14.0			
FM (30°-60°)	2820.8	45.0			
FH (60°-80°)	643.9	10.3			G0/660
FVH (80°-90°)	10.7	0.2			G1/100
BL (0°-30°)	493.4	7.9	B1/500		
BM (30°-60°)	1039.8	16.6	B2/2500		
BH (60°-80°)	359.7	5.7	B1/500		G1/500
BVH (80°-90°)	18.2	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: P527378

CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7
2.5°	2932.8	2916.3	2931.0	3000.5	3040.8	3068.2	3085.6	3082.8	3017.0	2952.9	2952.9
5°	2846.8	2825.8	2856.0	3013.3	3171.6	3185.3	3208.2	3170.7	3073.7	2956.6	2810.2
7.5°	2598.0	2613.5	2663.9	2870.6	3076.4	3179.8	3207.2	3159.7	3002.3	2783.7	2568.7
10°	2383.0	2419.6	2535.8	2759.0	2948.4	3082.8	3113.0	3046.2	2921.8	2653.8	2461.7
12.5°	2308.9	2286.1	2415.0	2638.2	2819.4	2891.6	2905.4	2909.9	2825.8	2587.9	2353.7
15°	2299.8	2314.4	2415.0	2584.3	2695.9	2699.5	2722.4	2758.1	2769.1	2632.8	2404.1
17.5°	2431.5	2414.1	2517.5	2652.0	2598.9	2545.9	2551.3	2602.6	2693.1	2671.2	2562.3
20°	2626.4	2665.7	2747.1	2733.4	2590.7	2456.2	2457.1	2505.6	2684.0	2830.4	2782.8
22.5°	2950.2	2988.6	3049.0	2883.4	2590.7	2429.7	2398.6	2464.4	2742.5	3019.7	3031.6
25°	3245.7	3316.1	3332.6	3137.7	2720.6	2454.4	2434.2	2499.2	2801.1	3204.5	3317.0
27.5°	3514.6	3540.2	3612.5	3301.5	2792.8	2470.8	2469.0	2552.3	2875.2	3296.9	3572.2
30°	3726.8	3724.1	3765.3	3404.8	2908.1	2563.2	2474.5	2631.8	2972.1	3449.7	3808.3
32.5°	3871.4	3902.5	3989.4	3548.5	2956.6	2651.1	2581.5	2725.2	3090.2	3521.9	3974.7
35°	4125.7	4179.7	4069.9	3628.0	3110.3	2738.0	2656.5	2852.3	3148.7	3600.6	4178.7
37.5°	4365.4	4324.2	4212.6	3671.0	3210.0	2899.0	2823.0	3098.4	3330.7	3771.7	4314.1
40°	4519.0	4518.1	4319.6	3705.8	3280.4	3145.0	3140.5	3348.1	3553.9	3879.6	4466.0
42.5°	4585.8	4649.9	4363.5	3702.1	3428.6	3443.3	3535.7	3721.4	3712.2	3901.6	4462.3
44°	4677.3	4715.7	4439.5	3710.4	3527.4	3644.5	3862.2	3980.2	3850.3	3889.7	4457.8
45°	4673.6	4676.4	4331.5	3721.4	3611.6	3812.8	4007.7	4207.1	3972.0	3864.1	4518.1
47.5°	4566.6	4535.5	4240.0	3639.9	3874.1	4257.4	4437.6	4558.4	4122.0	3809.2	4443.1
50°	4355.3	4319.6	4017.7	3605.2	3929.0	4533.7	4782.5	4826.4	4258.3	3755.2	4369.0
52.5°	4369.9	4359.9	4080.9	3657.3	3983.9	4620.6	5019.4	5030.4	4412.9	3868.6	4369.9
55°	4631.6	4596.8	4262.0	3722.3	3943.6	4519.0	4868.5	4849.3	4360.8	3800.0	4450.4
57.5°	4238.2	4261.1	4011.3	3465.2	3451.5	3673.8	3827.5	3779.9	3639.0	3429.5	4140.3
60°	3419.5	3484.4	3508.2	2898.0	2604.4	2490.1	2444.3	2360.2	2383.9	2817.5	3637.2
62.5°	2932.8	2929.1	3078.3	2627.3	1706.1	1467.3	1445.4	1464.6	1739.0	2773.6	3562.2
65°	2325.4	2387.6	2433.3	2226.6	1350.2	1089.5	1088.6	1210.3	1504.8	2318.1	2876.1
67.5°	1476.5	1557.9	1614.6	1424.3	902.9	775.7	754.7	901.1	1042.9	1520.4	1731.7
70°	832.5	870.9	896.5	821.5	574.5	402.5	378.7	413.5	630.3	984.3	1026.4
72.5°	321.1	338.5	373.2	376.0	216.8	129.9	105.2	126.2	265.3	389.7	371.4
75°	49.4	53.1	75.0	89.6	62.2	47.6	50.3	52.1	74.1	100.6	84.2
77.5°	23.8	23.8	22.9	26.5	31.1	33.8	36.6	40.3	43.9	48.5	46.7
80°	15.6	15.6	15.6	18.3	22.9	27.4	31.1	32.9	34.8	38.4	36.6
82.5°	10.1	10.1	10.1	13.7	18.3	22.9	24.7	29.3	32.9	38.4	35.7
85°	5.5	5.5	5.5	9.1	13.7	19.2	18.3	14.6	8.2	0.9	1.8
87.5°	1.8	1.8	1.8	1.8	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: P527378

CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7
2.5°	2876.1	2834.0	2830.4	2744.4	2667.5	2630.0	2599.8	2515.7	2534.0	2485.5	2484.6
5°	2737.0	2651.1	2512.0	2397.7	2283.3	2260.4	2160.7	2073.8	2076.6	2014.4	2025.3
7.5°	2487.3	2427.8	2258.6	2079.3	1927.5	1819.5	1725.3	1668.6	1596.3	1571.6	1558.8
10°	2329.0	2255.9	2065.6	1840.6	1670.4	1612.8	1522.2	1471.9	1397.8	1361.2	1335.6
12.5°	2259.5	2152.5	1914.6	1686.0	1572.5	1513.1	1436.2	1344.7	1256.9	1223.1	1176.4
15°	2266.8	2138.8	1870.7	1623.7	1487.4	1372.2	1303.6	1202.0	1112.4	1052.9	1019.1
17.5°	2377.5	2222.0	1890.9	1576.2	1380.4	1235.9	1101.4	991.6	920.3	875.5	864.5
20°	2639.2	2427.8	1924.7	1499.3	1273.4	1093.2	927.6	813.2	758.4	757.4	758.4
22.5°	2856.9	2647.4	1993.3	1453.6	1166.4	910.2	745.6	709.0	698.0	720.9	723.6
25°	3150.5	2894.4	2111.3	1429.8	1067.6	775.7	674.2	660.5	659.6	688.8	689.7
27.5°	3451.5	3110.3	2181.8	1360.3	966.9	706.2	631.2	628.5	643.1	674.2	671.5
30°	3656.4	3291.4	2308.9	1277.0	848.0	644.9	613.8	617.5	637.6	661.4	665.1
32.5°	3895.2	3469.8	2341.9	1231.3	774.8	593.7	571.7	580.0	605.6	643.1	663.2
35°	4168.7	3596.0	2392.2	1169.1	747.4	554.4	543.4	552.5	583.6	608.3	630.3
37.5°	4370.9	3819.2	2401.3	1120.6	717.2	532.4	515.0	545.2	563.5	598.3	609.2
40°	4520.9	3981.2	2425.1	1090.4	693.4	504.0	504.0	524.2	548.9	580.9	602.8
42.5°	4616.9	4099.2	2442.5	1063.0	647.7	495.8	491.2	511.4	544.3	575.4	585.5
44°	4675.5	4149.5	2425.1	1037.4	634.9	485.8	485.8	503.1	528.7	565.3	577.2
45°	4690.1	4212.6	2386.7	1036.5	619.3	473.9	472.0	505.0	522.3	567.2	574.5
47.5°	4746.8	4290.4	2391.3	1007.2	581.8	445.5	477.5	492.2	507.7	547.0	571.7
50°	4745.0	4338.8	2381.2	964.2	554.4	413.5	466.5	483.0	498.6	538.8	548.9
52.5°	4757.8	4520.0	2473.6	895.6	505.0	372.3	429.9	466.5	485.8	519.6	540.6
55°	4751.4	4623.3	2565.1	844.3	435.4	347.6	398.8	441.8	469.3	505.0	515.0
57.5°	4339.8	4086.4	2373.9	748.3	360.4	318.3	354.9	416.2	451.0	487.6	500.4
60°	3545.7	3149.6	1957.6	550.7	296.4	292.7	330.2	408.0	422.6	454.6	476.6
62.5°	3276.8	2762.7	1552.4	420.8	253.4	268.0	304.6	368.7	391.5	430.9	451.0
65°	2564.1	1835.1	961.4	284.5	223.2	240.6	275.4	322.9	360.4	397.0	420.8
67.5°	1518.5	1002.6	475.7	199.4	194.8	213.1	248.8	284.5	327.5	367.7	379.6
70°	827.0	493.1	203.1	151.9	165.6	182.0	216.8	241.5	282.7	313.8	333.9
72.5°	265.3	150.0	101.5	112.5	126.2	145.5	166.5	196.7	226.0	244.2	260.7
75°	64.0	63.1	72.3	78.7	91.5	106.1	123.5	139.0	161.9	179.3	193.9
77.5°	44.8	48.5	55.8	64.9	69.5	75.0	86.0	97.9	107.9	120.8	129.9
80°	34.8	37.5	43.0	47.6	52.1	56.7	62.2	66.8	73.2	81.4	86.0
82.5°	32.9	34.8	40.3	43.0	41.2	40.3	43.9	45.7	46.7	49.4	52.1
85°	2.7	0.0	1.8	6.4	15.6	22.9	24.7	24.7	23.8	25.6	25.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.7	2.7
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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CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7
2.5°	2473.6	2442.5	2454.4	2469.0	2448.0	2399.5	2412.3	2406.8	2456.2	2452.5	2501.9
5°	2073.8	2025.3	2030.8	2102.2	2079.3	2104.0	2054.6	2048.2	2057.4	2061.9	2070.2
7.5°	1587.2	1580.8	1635.6	1696.0	1724.4	1695.1	1646.6	1635.6	1625.6	1605.5	1651.2
10°	1295.3	1297.2	1293.5	1339.2	1371.3	1364.9	1335.6	1331.9	1312.7	1305.4	1331.0
12.5°	1156.3	1131.6	1119.7	1105.1	1129.8	1146.2	1133.4	1124.3	1125.2	1134.3	1138.0
15°	1021.8	1006.3	980.7	964.2	976.1	967.8	963.3	981.6	977.0	975.2	997.1
17.5°	870.9	883.7	881.9	863.6	879.1	872.7	871.8	859.0	841.6	828.8	836.1
20°	771.2	794.9	813.2	814.2	822.4	821.5	807.8	768.4	755.6	752.9	754.7
22.5°	735.5	748.3	770.3	801.4	801.4	786.7	770.3	724.5	712.6	699.8	694.3
25°	707.1	731.8	760.2	763.8	778.5	764.8	738.2	715.4	690.7	673.3	673.3
27.5°	692.5	719.9	741.0	747.4	767.5	756.5	729.1	699.8	670.5	669.6	654.1
30°	686.1	711.7	725.4	741.0	750.1	732.7	724.5	693.4	664.1	656.8	631.2
32.5°	666.9	703.5	729.1	725.4	732.7	725.4	713.5	687.9	655.0	638.5	635.8
35°	644.9	681.5	709.0	728.2	732.7	717.2	709.9	675.1	630.3	622.1	593.7
37.5°	633.0	655.0	688.8	719.9	726.3	718.1	693.4	657.7	612.9	603.8	579.1
40°	618.4	646.8	673.3	698.9	718.1	698.0	669.6	634.9	614.7	587.3	580.0
42.5°	607.4	639.4	661.4	689.7	711.7	685.2	652.2	628.5	600.1	581.8	560.8
44°	603.8	633.0	647.7	682.4	700.7	680.6	653.2	628.5	595.5	579.1	560.8
45°	591.0	631.2	646.8	677.9	693.4	676.9	642.2	617.5	593.7	573.6	554.4
47.5°	578.1	605.6	632.1	656.8	667.8	662.3	633.0	602.8	574.5	562.6	544.3
50°	574.5	601.9	626.6	649.5	662.3	651.3	624.8	595.5	562.6	543.4	527.8
52.5°	556.2	590.0	617.5	624.8	641.3	634.9	614.7	582.7	551.6	535.2	522.3
55°	529.7	565.3	602.8	612.0	635.8	625.7	595.5	565.3	538.8	514.1	497.6
57.5°	519.6	554.4	591.0	602.8	617.5	601.0	593.7	561.7	519.6	506.8	481.2
60°	494.0	537.9	568.1	595.5	596.4	591.9	579.1	542.5	507.7	483.9	465.6
62.5°	473.9	515.0	538.8	564.4	580.0	567.2	554.4	520.5	483.0	456.5	435.4
65°	444.6	482.1	502.2	517.8	535.2	533.3	511.4	486.7	447.3	426.3	406.2
67.5°	399.8	432.7	460.1	474.8	485.8	483.0	466.5	449.2	408.9	387.9	373.2
70°	345.8	379.6	397.0	405.3	416.2	421.7	408.9	400.7	365.0	337.6	323.8
72.5°	278.1	300.1	325.7	333.0	337.6	341.2	341.2	333.9	297.3	286.3	262.5
75°	204.9	222.3	241.5	241.5	249.7	250.7	252.5	247.9	220.5	205.8	200.3
77.5°	139.0	151.9	167.4	173.8	179.3	178.4	177.5	164.7	150.0	143.6	138.1
80°	90.6	103.4	110.7	118.9	124.4	123.5	125.3	116.2	109.8	98.8	100.6
82.5°	54.0	64.0	71.4	81.4	81.4	84.2	84.2	81.4	75.0	69.5	69.5
85°	25.6	33.8	38.4	44.8	48.5	49.4	43.9	37.5	31.1	28.4	31.1
87.5°	4.6	6.4	9.1	8.2	10.1	9.1	9.1	9.1	9.1	7.3	8.2
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: P527378

CATALOG NUMBER: GALN-SA2B-827-U-SLL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7	2794.7
2.5°	2483.6	2529.4	2561.4	2614.5	2705.9	2779.1	2854.1	2909.9	2916.3	2932.8
5°	2100.4	2125.1	2206.5	2312.6	2387.6	2511.1	2590.7	2735.2	2789.2	2846.8
7.5°	1640.2	1680.5	1789.3	1860.7	2025.3	2179.9	2340.0	2518.4	2589.8	2598.0
10°	1383.2	1441.7	1515.8	1630.2	1719.8	1891.8	2091.2	2289.7	2369.3	2383.0
12.5°	1214.8	1289.8	1388.6	1471.0	1557.0	1707.0	1898.2	2143.3	2246.7	2308.9
15°	1052.9	1130.7	1239.5	1353.9	1429.8	1609.1	1834.1	2110.4	2244.9	2299.8
17.5°	886.4	958.7	1048.3	1171.8	1324.6	1525.9	1824.1	2220.2	2367.5	2431.5
20°	743.7	784.0	888.3	1015.4	1206.6	1440.8	1827.7	2382.1	2598.0	2626.4
22.5°	687.9	697.1	738.2	855.3	1064.8	1353.9	1892.7	2611.7	2856.9	2950.2
25°	644.9	643.1	654.1	732.7	961.4	1320.0	1956.7	2823.0	3144.1	3245.7
27.5°	621.1	602.8	603.8	677.9	888.3	1265.2	2039.1	3065.5	3469.8	3514.6
30°	609.2	605.6	594.6	624.8	808.7	1182.8	2052.8	3304.2	3661.9	3726.8
32.5°	601.9	566.3	552.5	563.5	733.7	1093.2	2104.0	3461.6	3899.7	3871.4
35°	565.3	533.3	524.2	535.2	680.6	1042.9	2070.2	3598.8	4078.1	4125.7
37.5°	551.6	523.3	505.0	495.8	631.2	1000.8	2052.8	3810.1	4251.0	4365.4
40°	538.8	508.6	486.7	477.5	592.8	945.0	2047.3	3972.9	4450.4	4519.0
42.5°	524.2	505.0	480.3	463.8	546.1	889.2	1984.2	4023.2	4511.7	4585.8
44°	519.6	490.3	464.7	459.2	527.8	860.8	1971.4	4069.0	4564.8	4677.3
45°	515.0	487.6	458.3	451.0	521.4	845.3	1954.0	4080.0	4652.6	4673.6
47.5°	502.2	484.8	456.5	436.4	507.7	811.4	1901.8	4017.7	4563.0	4566.6
50°	492.2	472.0	442.8	403.4	489.4	783.1	1925.6	3994.9	4347.1	4355.3
52.5°	481.2	451.0	434.5	366.8	459.2	759.3	1975.9	4098.2	4371.8	4369.9
55°	468.4	435.4	395.2	335.7	408.9	729.1	2097.6	4302.2	4600.5	4631.6
57.5°	448.2	419.9	362.3	308.3	351.3	671.5	2058.3	3911.6	4232.7	4238.2
60°	421.7	395.2	328.4	287.2	288.2	529.7	1840.6	3048.1	3339.9	3419.5
62.5°	396.1	381.5	300.1	257.1	245.2	421.7	1556.1	2533.0	2866.9	2932.8
65°	365.9	330.2	275.4	234.2	210.4	295.5	1102.3	1892.7	2236.7	2325.4
67.5°	327.5	289.1	242.4	205.8	180.2	197.6	569.0	1075.8	1424.3	1476.5
70°	286.3	250.7	204.0	173.8	145.5	136.3	250.7	513.2	778.5	832.5
72.5°	235.1	202.2	162.8	137.2	108.9	94.2	84.2	137.2	276.3	321.1
75°	170.2	147.3	122.6	97.9	76.8	60.4	49.4	41.2	45.7	49.4
77.5°	125.3	107.0	90.6	69.5	54.0	43.0	33.8	25.6	24.7	23.8
80°	97.9	86.9	72.3	55.8	42.1	32.0	23.8	17.4	15.6	15.6
82.5°	76.8	71.4	59.5	45.7	34.8	25.6	17.4	11.9	10.1	10.1
85°	29.3	29.3	43.0	37.5	26.5	18.3	11.9	6.4	5.5	5.5
87.5°	7.3	7.3	7.3	7.3	6.4	5.5	5.5	2.7	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)