

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: P648269

Luminaire Tested: **GALN-SA2B-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4953.3 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

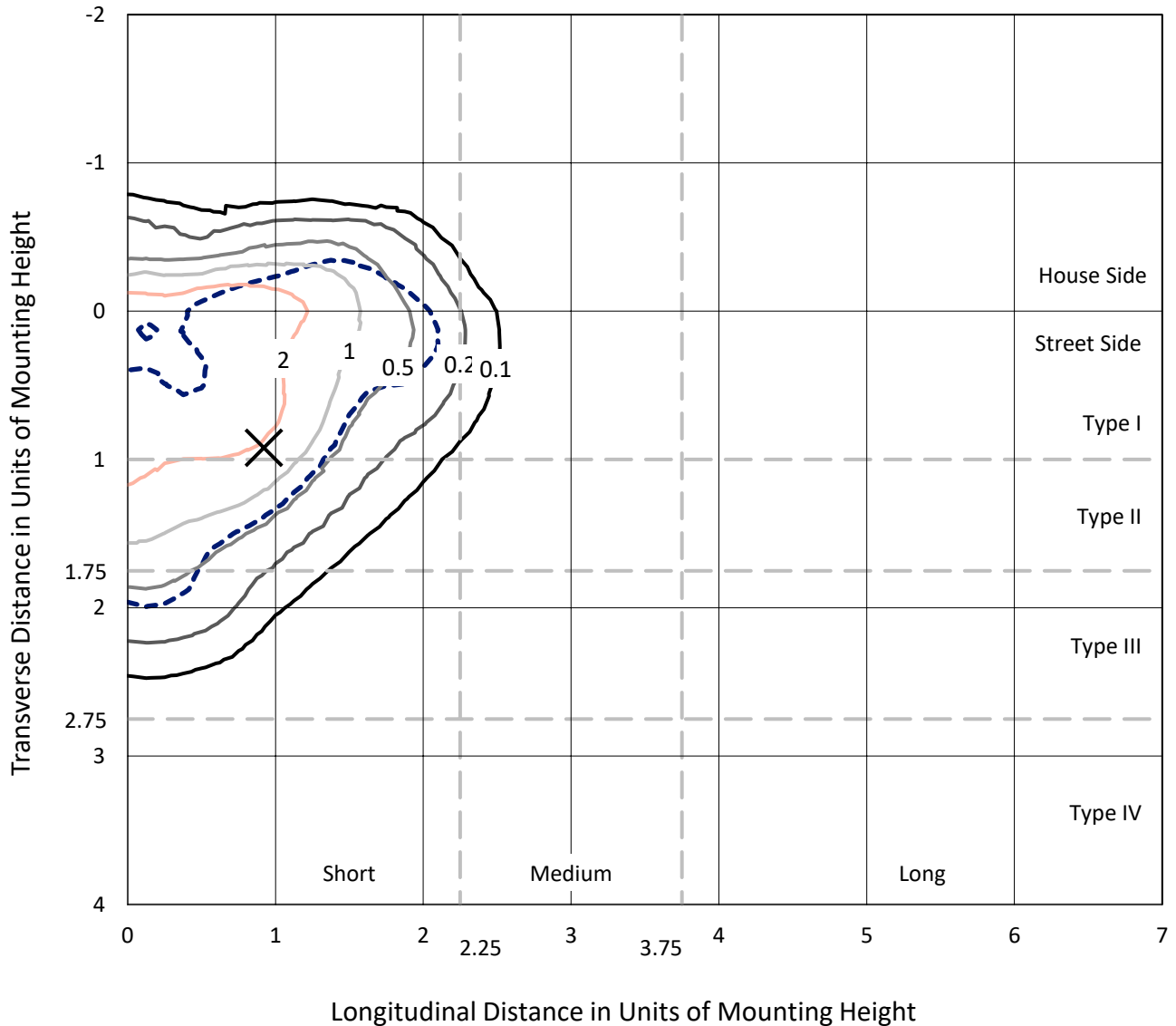
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648269
 CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

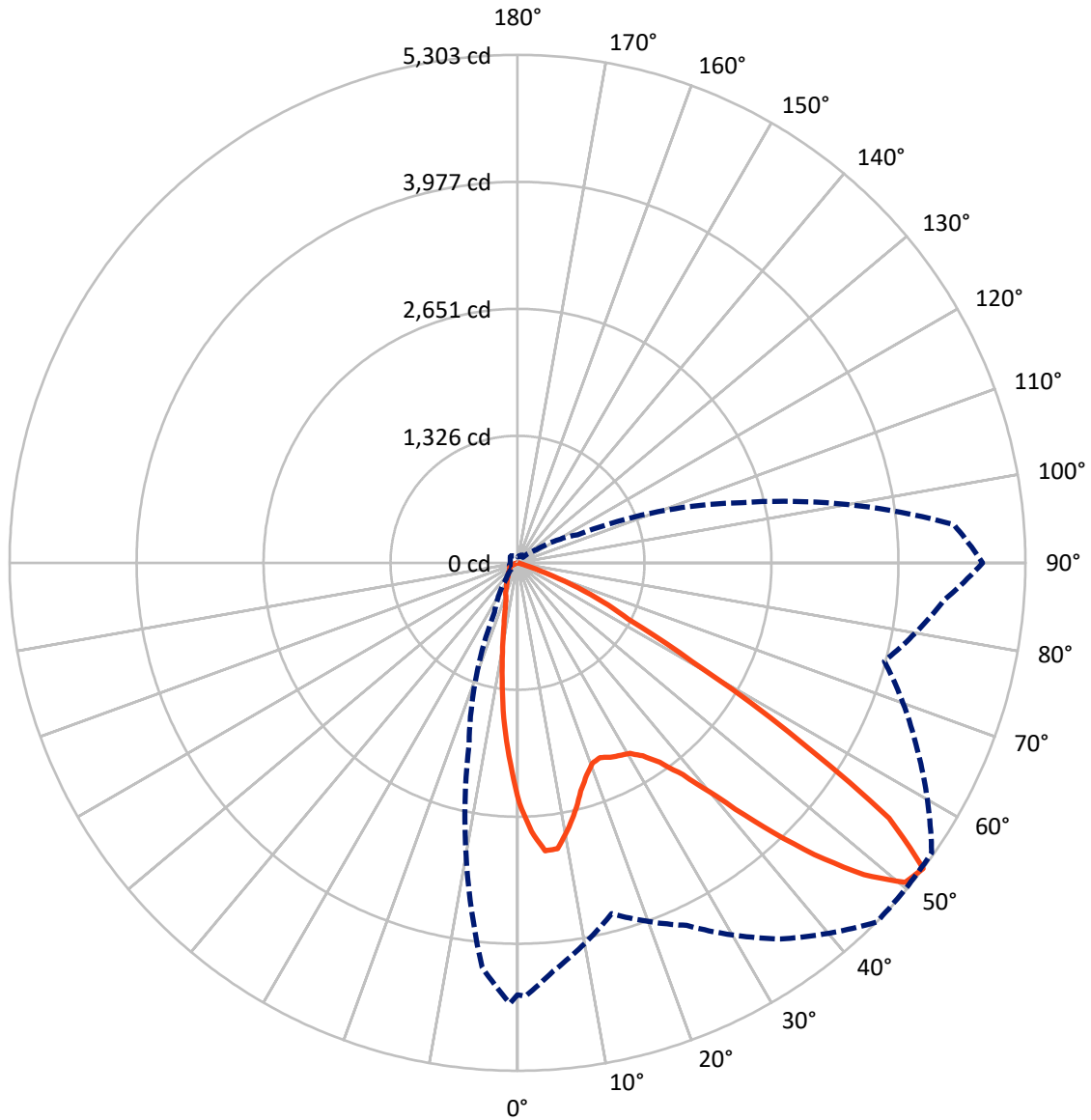
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P648269
CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P648269
 CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

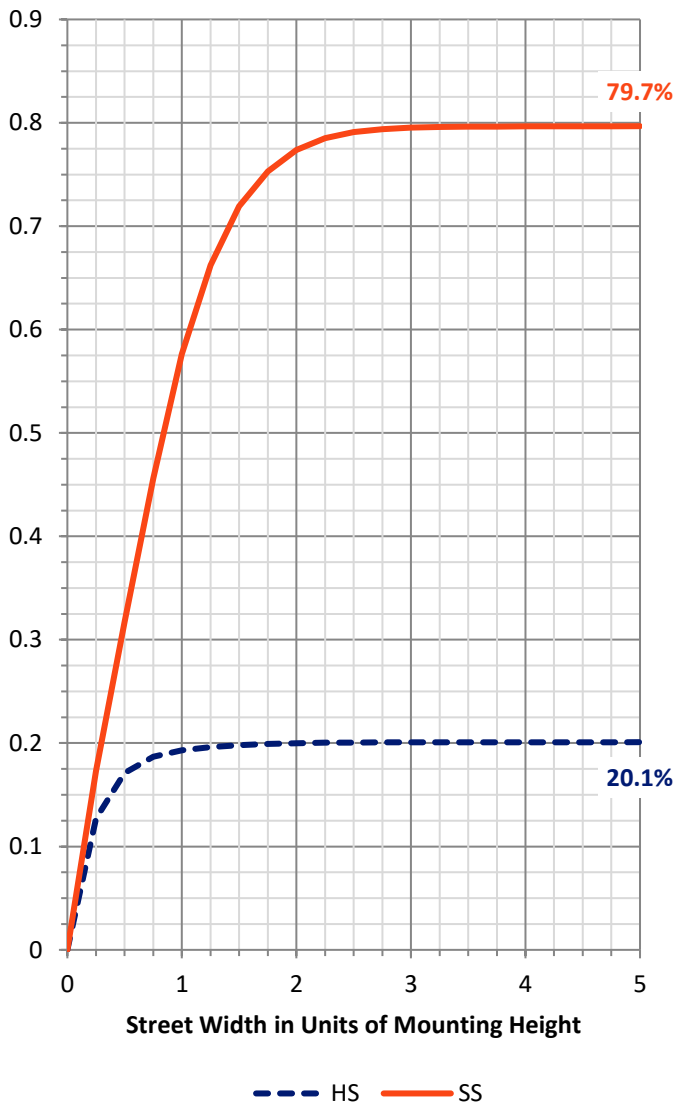
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.3	0.0	1005.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3948.0	0.0	3948.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	4953.3	0.0	4953.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.7
10°-20°	361.4	7.3
20°-30°	549.9	11.1
30°-40°	822.0	16.6
40°-50°	1170.5	23.6
50°-60°	1258.3	25.4
60°-70°	557.6	11.3
70°-80°	45.1	0.9
80°-90°	5.3	0.1
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°	4953.3	100.0
0°-180°	4953.3	100.0

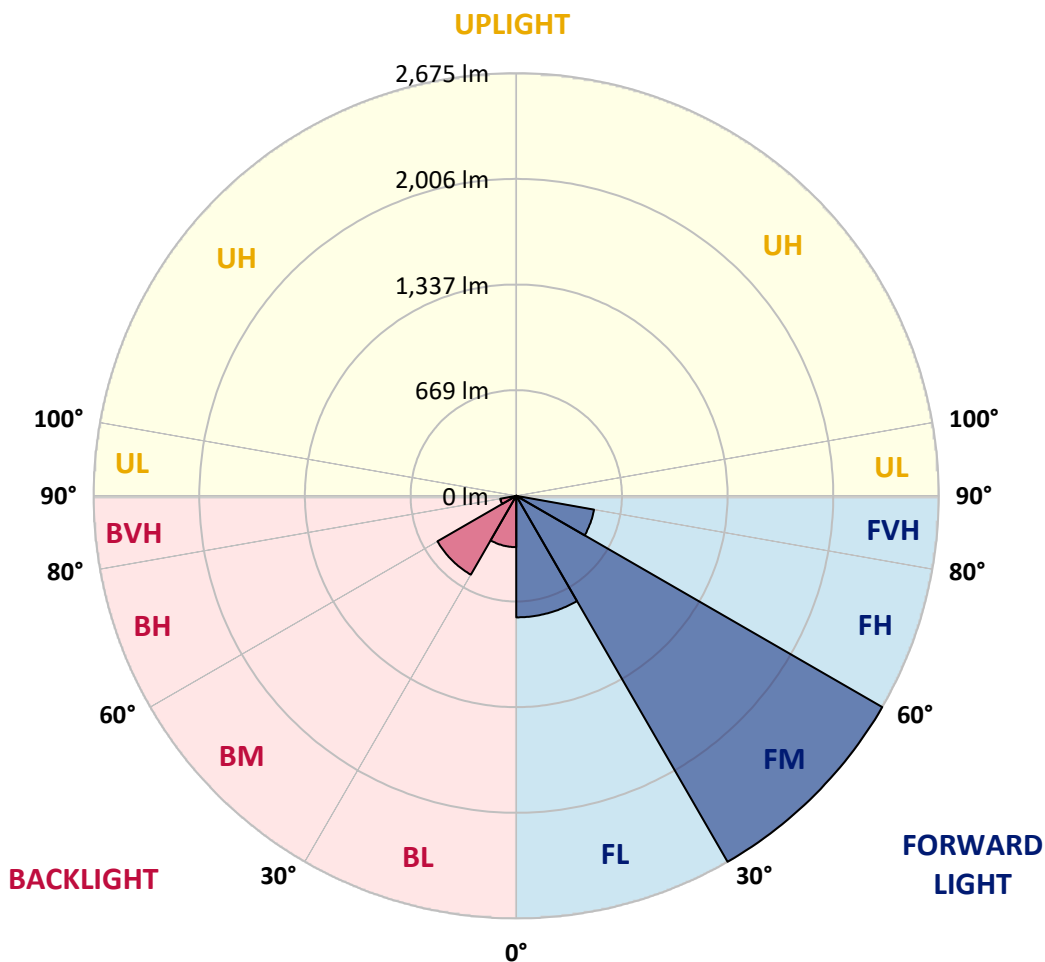


REPORT NUMBER: P648269
 CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	769.3	15.5			
FM (30°-60°)	2674.9	54.0			
FH (60°-80°)	499.8	10.1			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	325.1	6.6	B1/500		
BM (30°-60°)	575.9	11.6	B1/1000		
BH (60°-80°)	102.9	2.1	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type III Short





REPORT NUMBER: P648269

CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6
2.5°	2657.7	2665.5	2708.3	2761.9	2790.1	2854.4	2809.6	2821.3	2797.0	2711.2	2644.0
5°	2576.8	2575.8	2630.4	2762.9	2888.6	3016.2	3020.1	2951.9	2832.0	2700.6	2512.5
7.5°	2333.3	2371.2	2427.8	2639.2	2872.0	2967.5	3013.2	2933.4	2749.3	2561.2	2357.6
10°	2149.1	2168.6	2264.0	2519.3	2689.8	2817.5	2845.7	2799.9	2658.7	2423.9	2195.9
12.5°	2042.9	2052.7	2164.7	2379.1	2559.2	2653.7	2667.4	2688.8	2587.5	2367.3	2093.6
15°	2043.9	2051.7	2202.7	2382.0	2453.1	2427.8	2472.6	2471.6	2515.5	2356.6	2179.3
17.5°	2191.0	2199.8	2336.2	2424.8	2393.6	2334.2	2331.3	2376.1	2468.6	2490.1	2308.9
20°	2444.3	2464.8	2565.1	2560.3	2384.9	2265.1	2231.9	2266.0	2481.3	2603.1	2570.0
22.5°	2785.3	2813.6	2883.7	2749.3	2424.8	2218.3	2207.6	2273.8	2565.1	2855.4	2866.2
25°	3180.8	3228.5	3262.7	3090.2	2567.1	2299.1	2248.5	2362.5	2678.1	3129.2	3243.2
27.5°	3442.9	3492.6	3484.7	3238.3	2662.5	2320.6	2277.7	2383.9	2776.5	3194.5	3440.0
30°	3647.4	3677.7	3732.2	3318.2	2758.0	2381.0	2307.9	2474.5	2808.7	3307.5	3677.7
32.5°	3886.2	3906.6	3910.5	3459.5	2905.1	2457.0	2401.5	2587.5	2950.9	3415.6	3888.1
35°	4126.8	4156.9	4093.7	3633.8	2995.7	2598.2	2557.4	2783.3	3064.9	3527.6	4120.0
37.5°	4387.9	4403.4	4257.3	3705.9	3125.3	2828.1	2805.7	2994.7	3262.7	3730.3	4377.1
40°	4607.1	4621.7	4431.7	3794.6	3261.7	3149.6	3207.1	3398.1	3531.6	3861.8	4505.8
42.5°	4728.9	4762.9	4490.2	3745.9	3535.4	3514.0	3769.3	3836.5	3843.3	3898.8	4620.7
45°	4762.0	4746.4	4393.7	3785.8	3775.1	4113.2	4345.0	4433.7	4153.1	3967.0	4649.9
47.5°	4609.1	4629.5	4251.5	3750.7	4089.8	4567.2	4867.2	5031.8	4383.9	3907.6	4577.8
50°	4485.3	4459.0	4205.7	3725.4	4174.5	4781.5	5244.2	5281.3	4596.4	3980.6	4499.0
52.5°	4509.7	4526.2	4278.8	3792.6	4176.4	4794.2	5302.6	5277.3	4603.2	3964.1	4470.7
55°	4561.3	4488.2	4247.6	3644.6	3896.8	4440.5	4706.5	4667.5	4248.6	3787.8	4401.5
57.5°	3935.8	4048.8	3905.6	3253.9	3198.3	3345.4	3340.6	3460.4	3169.1	3259.7	4006.9
60°	3194.5	3214.0	3267.5	2783.3	2213.4	2162.7	2092.6	2016.6	2132.6	2787.2	3644.6
62.5°	2809.6	2786.2	2977.2	2532.0	1562.6	1308.4	1296.6	1343.5	1645.5	2658.7	3418.5
65°	2042.0	2071.2	2209.5	1965.0	1172.9	998.6	981.0	1119.4	1331.7	2130.6	2609.0
67.5°	1247.0	1303.5	1316.1	1211.9	795.9	632.3	606.9	732.6	961.5	1378.5	1529.5
70°	575.7	643.9	708.2	661.5	460.8	260.1	245.5	307.9	485.1	793.0	811.5
72.5°	174.4	175.4	245.5	256.2	149.1	58.5	51.6	68.2	164.7	262.1	275.7
75°	12.7	13.6	33.1	38.0	28.3	14.6	15.6	18.5	35.1	58.5	43.8
77.5°	0.9	0.9	0.9	4.9	8.8	9.7	12.7	14.6	18.5	21.5	19.5
80°	0.9	0.0	0.9	3.9	6.8	9.7	11.7	13.6	14.6	16.6	14.6
82.5°	0.0	0.0	0.0	2.9	6.8	9.7	10.7	14.6	16.6	19.5	16.6
85°	0.0	0.0	0.0	2.9	6.8	10.7	9.7	4.9	0.0	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: P648269

CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6
2.5°	2655.7	2617.7	2531.0	2487.2	2383.9	2369.3	2268.0	2251.4	2217.3	2198.8	2154.0
5°	2429.7	2383.9	2242.7	2123.8	1985.5	1889.0	1815.0	1747.7	1708.7	1672.7	1689.3
7.5°	2245.6	2112.1	1955.2	1756.5	1596.8	1493.5	1380.4	1287.9	1233.4	1196.3	1205.1
10°	2052.7	1966.0	1747.7	1524.7	1331.7	1258.7	1170.0	1098.9	1022.0	955.7	924.6
12.5°	1992.3	1863.7	1590.0	1363.0	1216.8	1145.7	1044.4	962.5	864.1	783.2	755.0
15°	2003.0	1879.3	1547.1	1304.5	1132.1	1009.3	888.5	787.1	679.0	622.6	593.3
17.5°	2177.4	1963.1	1575.3	1243.1	1014.1	843.7	694.6	566.0	485.1	426.7	414.1
20°	2391.7	2144.2	1635.7	1198.3	917.7	671.3	507.5	396.5	329.3	319.5	316.6
22.5°	2705.4	2440.4	1765.3	1168.1	799.8	523.1	347.8	288.4	269.8	267.9	268.9
25°	3143.8	2811.6	1906.5	1142.8	711.2	403.3	284.5	244.5	238.7	235.8	240.6
27.5°	3333.8	3035.7	1981.5	1088.2	630.3	363.4	280.5	242.6	226.1	221.1	224.1
30°	3568.5	3184.7	2099.5	994.6	511.5	299.1	262.1	264.0	256.2	231.8	224.1
32.5°	3880.3	3370.8	2158.9	928.4	456.9	247.4	191.9	176.3	196.8	200.7	207.5
35°	4080.1	3559.8	2189.0	889.5	428.7	211.4	162.7	148.1	143.2	144.2	148.1
37.5°	4451.2	3815.0	2227.1	848.5	407.2	184.2	147.1	133.5	126.6	126.6	130.5
40°	4673.3	4017.7	2278.7	826.1	385.8	167.6	133.5	121.8	116.0	116.0	117.8
42.5°	4728.9	4118.0	2261.1	818.3	361.4	163.6	121.8	113.0	106.2	105.2	104.2
45°	4828.2	4271.0	2264.0	809.5	336.1	149.1	114.9	105.2	95.4	94.5	93.5
47.5°	4937.4	4381.0	2269.9	775.5	311.7	124.7	119.8	97.4	85.7	83.8	83.8
50°	4843.8	4468.7	2320.6	741.3	280.5	101.3	117.8	91.6	76.0	73.1	74.1
52.5°	4855.5	4572.0	2427.8	693.7	241.6	80.9	95.4	86.7	69.1	64.3	65.3
55°	4668.5	4462.9	2442.3	643.0	189.0	62.3	73.1	76.0	58.5	56.5	56.5
57.5°	4018.7	3779.0	2155.0	521.2	124.7	51.6	52.6	66.2	50.7	48.7	49.7
60°	3439.0	3033.7	1734.1	343.9	77.9	41.0	38.0	67.3	44.8	43.8	46.7
62.5°	3135.1	2493.0	1315.2	213.4	53.6	31.2	26.3	54.6	39.0	39.0	42.8
65°	2265.1	1674.7	764.8	112.0	38.0	24.4	19.5	31.2	32.2	33.1	35.1
67.5°	1402.9	845.6	322.4	54.6	25.3	16.6	12.7	19.5	21.5	21.5	23.4
70°	692.6	337.1	107.2	31.2	19.5	13.6	8.8	10.7	10.7	9.7	10.7
72.5°	214.3	101.3	27.2	19.5	13.6	8.8	4.9	3.9	2.0	0.0	0.9
75°	24.4	19.5	17.5	13.6	8.8	3.9	0.9	0.0	0.0	0.0	0.0
77.5°	14.6	16.6	16.6	13.6	8.8	2.9	0.0	0.0	0.0	0.0	0.0
80°	11.7	12.7	13.6	12.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	14.6	16.6	18.5	16.6	10.7	4.9	2.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.9	0.9	0.0	0.0	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: P648269

CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6
2.5°	2135.5	2114.0	2144.2	2099.5	2098.4	2099.5	2086.8	2075.1	2093.6	2143.3	2148.2
5°	1629.9	1675.6	1690.3	1738.0	1711.7	1672.7	1680.6	1654.2	1718.5	1746.8	1724.4
7.5°	1186.6	1183.7	1282.1	1287.9	1300.6	1301.6	1299.6	1247.9	1195.3	1207.1	1242.2
10°	920.7	870.9	918.7	913.8	945.0	936.2	948.9	893.3	911.9	911.9	934.3
12.5°	750.1	697.6	688.8	676.1	688.8	693.7	698.5	687.8	719.0	733.6	749.2
15°	572.8	543.6	535.8	511.5	515.4	529.0	540.7	545.6	535.8	558.2	560.2
17.5°	416.0	415.0	419.9	418.9	415.0	412.1	411.2	398.5	394.6	396.5	404.3
20°	315.6	323.5	340.0	356.6	365.3	354.6	340.0	318.6	309.8	311.7	312.7
22.5°	269.8	281.6	304.0	322.4	331.2	311.7	285.5	266.9	263.0	262.1	261.1
25°	244.5	258.2	274.8	280.5	279.6	267.9	248.4	240.6	238.7	236.7	227.9
27.5°	230.9	235.8	238.7	245.5	248.4	240.6	235.8	224.1	222.1	222.1	216.3
30°	223.1	220.2	224.1	219.2	223.1	217.3	218.2	218.2	213.4	215.3	215.3
32.5°	207.5	208.5	208.5	198.7	201.7	194.8	201.7	207.5	208.5	209.5	217.3
35°	152.0	169.5	178.3	178.3	181.2	176.3	175.4	168.5	159.8	151.0	147.1
37.5°	133.5	140.3	152.0	158.8	163.6	159.8	151.0	140.3	135.4	131.5	127.6
40°	118.9	124.7	132.5	140.3	150.0	145.2	131.5	126.6	120.8	120.8	116.9
42.5°	107.2	110.1	114.9	126.6	137.3	127.6	117.8	114.0	111.0	110.1	109.2
45°	96.5	97.4	102.3	112.0	124.7	114.9	105.2	100.4	101.3	102.3	101.3
47.5°	86.7	88.6	91.6	103.3	111.0	106.2	95.4	92.6	92.6	92.6	93.5
50°	75.0	79.9	85.7	95.4	101.3	98.4	89.7	85.7	83.8	83.8	84.7
52.5°	67.3	71.1	78.9	90.6	98.4	93.5	84.7	78.9	75.0	74.1	76.0
55°	58.5	65.3	77.9	86.7	97.4	92.6	82.8	76.0	69.1	68.2	68.2
57.5°	52.6	63.3	75.0	85.7	94.5	90.6	82.8	74.1	65.3	64.3	64.3
60°	49.7	61.4	73.1	82.8	94.5	88.6	81.8	72.1	62.3	62.3	61.4
62.5°	46.7	57.5	69.1	78.9	90.6	85.7	78.9	69.1	59.4	59.4	57.5
65°	39.0	49.7	57.5	66.2	78.9	74.1	67.3	60.4	52.6	50.7	51.6
67.5°	27.2	34.1	41.9	50.7	58.5	56.5	53.6	48.7	41.9	41.0	39.9
70°	13.6	18.5	25.3	34.1	41.0	39.0	37.0	33.1	29.2	28.3	28.3
72.5°	2.0	5.9	10.7	15.6	21.5	22.4	21.5	20.4	19.5	18.5	19.5
75°	0.0	0.0	0.0	3.9	8.8	10.7	12.7	14.6	14.6	12.7	15.6
77.5°	0.0	0.0	0.0	0.0	0.9	4.9	9.7	12.7	15.6	13.6	18.5
80°	0.0	0.0	0.0	0.0	0.9	5.9	9.7	13.6	15.6	13.6	19.5
82.5°	0.0	0.0	0.0	0.0	0.9	6.8	9.7	12.7	14.6	13.6	17.5
85°	0.0	0.0	0.0	0.0	2.9	5.9	3.9	2.0	0.9	0.9	2.9
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: P648269

CATALOG NUMBER: GALN-SA2B-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6
2.5°	2175.4	2244.6	2318.6	2346.9	2434.6	2500.8	2545.6	2642.1	2656.7	2657.7
5°	1747.7	1782.8	1909.5	1968.9	2099.5	2200.8	2308.9	2464.8	2569.0	2576.8
7.5°	1242.2	1339.6	1393.1	1548.1	1708.7	1867.6	2028.3	2209.5	2330.4	2333.3
10°	999.6	1062.8	1158.4	1274.3	1409.7	1571.4	1785.7	1996.2	2119.0	2149.1
12.5°	804.7	915.8	1024.9	1144.7	1247.9	1369.8	1600.6	1881.2	1982.6	2042.9
15°	619.6	720.9	849.6	989.8	1106.7	1269.4	1532.4	1853.0	2023.4	2043.9
17.5°	456.9	547.5	666.3	798.9	974.2	1205.1	1544.2	1996.2	2156.9	2191.0
20°	328.3	380.9	474.4	628.4	851.4	1130.1	1555.8	2141.3	2385.9	2444.3
22.5°	260.1	281.6	343.0	479.4	714.1	1051.2	1638.7	2419.0	2700.6	2785.3
25°	226.1	237.7	266.9	378.0	627.4	1043.4	1771.1	2752.2	3119.5	3180.8
27.5°	218.2	220.2	245.5	346.8	580.6	991.7	1821.8	2988.9	3380.5	3442.9
30°	229.9	261.1	263.0	293.2	493.9	889.5	1848.1	3217.8	3601.6	3647.4
32.5°	198.7	189.0	195.8	227.0	434.5	830.1	1897.8	3417.6	3854.0	3886.2
35°	138.4	145.2	160.7	196.8	379.9	767.7	1910.4	3637.7	4093.7	4126.8
37.5°	127.6	131.5	144.2	167.6	334.2	732.6	1892.9	3798.5	4342.0	4387.9
40°	118.9	123.7	130.5	152.0	300.0	693.7	1868.6	3943.7	4494.0	4607.1
42.5°	112.0	116.0	121.8	145.2	270.8	654.7	1834.4	4148.3	4630.4	4728.9
45°	104.2	110.1	116.9	141.3	254.2	628.4	1809.1	4135.6	4709.4	4762.0
47.5°	96.5	106.2	114.0	131.5	249.4	615.7	1819.8	4087.8	4645.1	4609.1
50°	88.6	101.3	114.9	109.2	237.7	590.4	1832.5	4153.1	4492.1	4485.3
52.5°	81.8	96.5	107.2	89.7	211.4	566.0	1955.2	4238.8	4600.3	4509.7
55°	72.1	86.7	85.7	72.1	171.5	547.5	2051.7	4240.8	4527.1	4561.3
57.5°	65.3	77.0	67.3	60.4	126.6	457.9	1894.9	3555.9	3875.5	3935.8
60°	60.4	75.0	50.7	47.8	82.8	330.3	1654.2	2754.1	3080.5	3194.5
62.5°	55.5	71.1	39.9	39.0	57.5	234.8	1360.0	2305.0	2654.8	2809.6
65°	48.7	50.7	32.2	30.2	41.0	126.6	828.1	1587.0	1984.5	2042.0
67.5°	39.9	39.0	26.3	24.4	27.2	61.4	365.3	795.0	1150.5	1247.0
70°	32.2	32.2	22.4	19.5	19.5	28.3	95.4	316.6	520.2	575.7
72.5°	23.4	24.4	17.5	15.6	14.6	13.6	15.6	63.3	136.4	174.4
75°	20.4	21.5	17.5	13.6	10.7	8.8	6.8	5.9	7.8	12.7
77.5°	22.4	22.4	18.5	12.7	9.7	6.8	3.9	2.0	2.0	0.9
80°	28.3	29.2	24.4	16.6	11.7	7.8	4.9	2.0	0.9	0.9
82.5°	30.2	33.1	27.2	20.4	14.6	8.8	4.9	0.9	0.0	0.0
85°	7.8	12.7	21.5	18.5	14.6	8.8	4.9	0.9	0.0	0.0
87.5°	0.0	0.9	2.9	2.9	3.9	3.9	2.9	0.9	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)