

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: P647775

Luminaire Tested: **GALN-SA2A-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647775
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-SA2A-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 5362.7 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

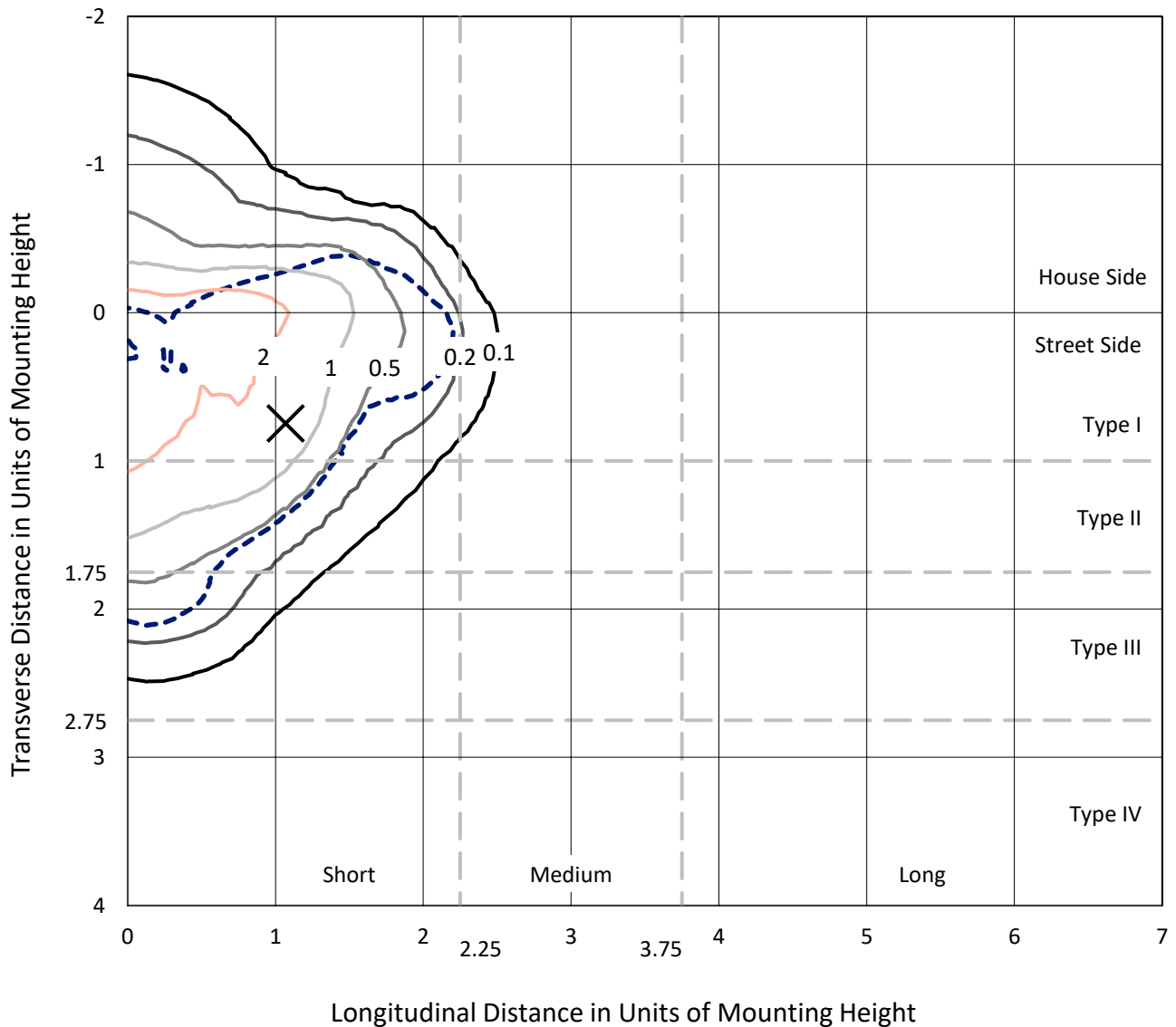
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647775
 CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

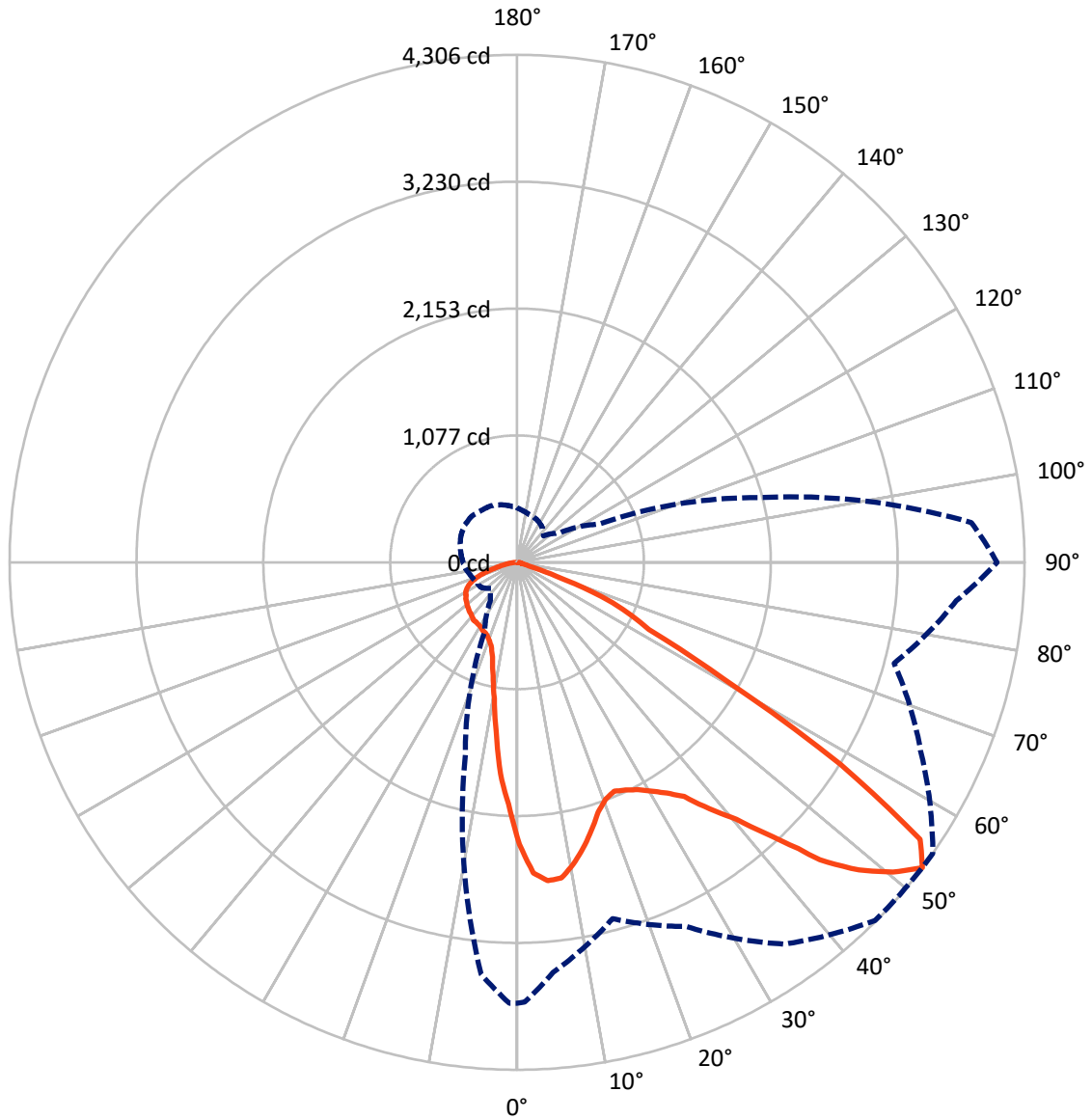
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

REPORT NUMBER: P647775
CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647775
 CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

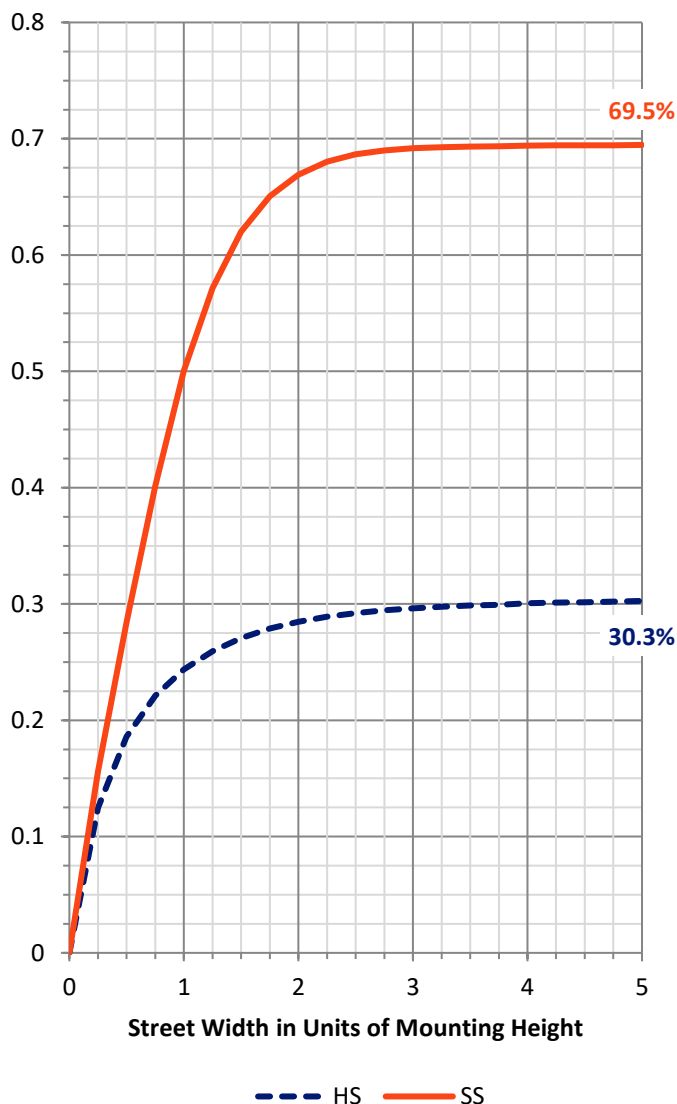
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1635.9	0.0	1635.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	3726.8	0.0	3726.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	5362.7	0.0	5362.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	3.4
10°-20°	394.1	7.3
20°-30°	597.5	11.1
30°-40°	863.3	16.1
40°-50°	1153.6	21.5
50°-60°	1287.7	24.0
60°-70°	706.4	13.2
70°-80°	152.7	2.8
80°-90°	24.7	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°	5362.7	100.0
0°-180°	5362.7	100.0

Coefficient of Utilization



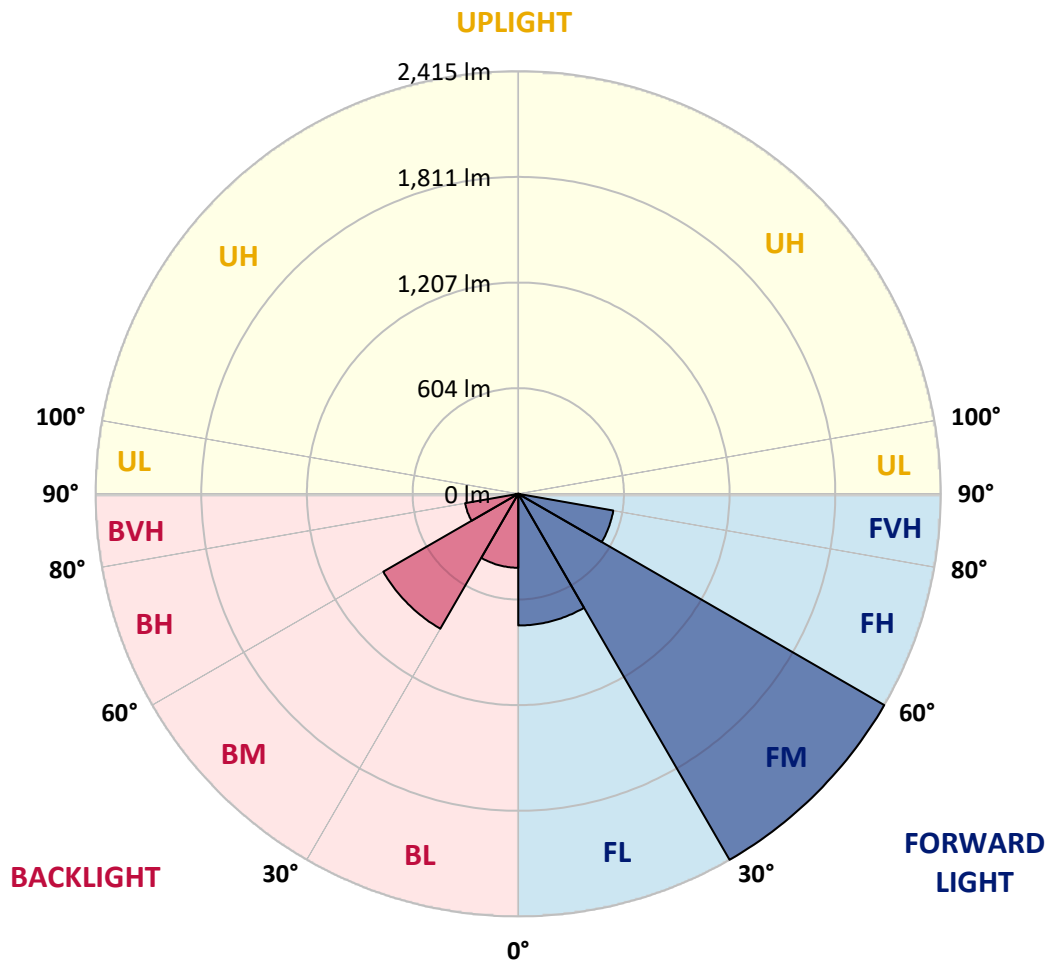
REPORT NUMBER: P647775
 CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.0	14.0			
FM (30°-60°)	2414.6	45.0			
FH (60°-80°)	551.2	10.3			G0/660
FVH (80°-90°)	9.1	0.2			G0/10
BL (0°-30°)	422.4	7.9	B1/500		
BM (30°-60°)	890.1	16.6	B1/1000		
BH (60°-80°)	307.9	5.7	B1/500		G1/500
BVH (80°-90°)	15.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P647775

CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2
2.5°	2510.5	2496.4	2508.9	2568.4	2602.8	2626.3	2641.2	2638.9	2582.5	2527.7	2527.7
5°	2436.9	2418.8	2444.7	2579.4	2714.8	2726.6	2746.1	2714.0	2631.0	2530.8	2405.5
7.5°	2223.9	2237.2	2280.3	2457.2	2633.4	2721.9	2745.4	2704.6	2570.0	2382.8	2198.8
10°	2039.9	2071.2	2170.6	2361.7	2523.8	2638.9	2664.7	2607.5	2501.1	2271.6	2107.2
12.5°	1976.4	1956.9	2067.3	2258.3	2413.4	2475.2	2487.0	2490.9	2418.8	2215.3	2014.8
15°	1968.6	1981.1	2067.3	2212.1	2307.7	2310.8	2330.4	2360.9	2370.3	2253.6	2057.9
17.5°	2081.4	2066.5	2155.0	2270.1	2224.7	2179.2	2183.9	2227.8	2305.3	2286.5	2193.3
20°	2248.1	2281.8	2351.5	2339.8	2217.6	2102.5	2103.3	2144.8	2297.5	2422.8	2382.0
22.5°	2525.3	2558.2	2609.9	2468.2	2217.6	2079.8	2053.2	2109.6	2347.6	2584.8	2595.0
25°	2778.2	2838.5	2852.6	2685.8	2328.8	2100.9	2083.7	2139.3	2397.7	2743.0	2839.3
27.5°	3008.4	3030.4	3092.2	2826.0	2390.7	2115.0	2113.5	2184.7	2461.1	2822.1	3057.8
30°	3190.1	3187.7	3223.0	2914.5	2489.3	2194.1	2118.2	2252.8	2544.1	2952.8	3259.9
32.5°	3313.9	3340.5	3414.9	3037.4	2530.8	2269.3	2209.8	2332.7	2645.1	3014.7	3402.4
35°	3531.6	3577.8	3483.8	3105.5	2662.4	2343.7	2274.0	2441.6	2695.2	3082.0	3577.0
37.5°	3736.7	3701.5	3605.9	3142.3	2747.7	2481.5	2416.5	2652.2	2851.1	3228.5	3692.9
40°	3868.3	3867.5	3697.6	3172.1	2808.0	2692.1	2688.2	2865.9	3042.1	3320.9	3822.8
42.5°	3925.4	3980.2	3735.1	3169.0	2934.8	2947.4	3026.5	3185.4	3177.6	3339.7	3819.7
44°	4003.7	4036.6	3800.1	3176.0	3019.4	3119.6	3306.1	3407.1	3295.9	3329.6	3815.8
45°	4000.6	4002.9	3707.7	3185.4	3091.4	3263.8	3430.6	3601.3	3400.0	3307.6	3867.5
47.5°	3909.0	3882.3	3629.4	3115.7	3316.2	3644.3	3798.6	3901.9	3528.4	3260.6	3803.3
50°	3728.1	3697.6	3439.2	3086.0	3363.2	3880.8	4093.8	4131.3	3645.1	3214.4	3739.8
52.5°	3740.6	3732.0	3493.2	3130.6	3410.2	3955.2	4296.6	4306.0	3777.4	3311.5	3740.6
55°	3964.6	3934.8	3648.2	3186.2	3375.7	3868.3	4167.4	4150.9	3732.8	3252.7	3809.5
57.5°	3627.9	3647.4	3433.7	2966.2	2954.4	3144.7	3276.3	3235.5	3114.9	2935.6	3544.1
60°	2927.0	2982.6	3003.0	2480.7	2229.4	2131.5	2092.3	2020.3	2040.7	2411.8	3113.4
62.5°	2510.5	2507.3	2635.0	2248.9	1460.4	1256.0	1237.2	1253.7	1488.6	2374.2	3049.2
65°	1990.5	2043.8	2082.9	1905.9	1155.8	932.6	931.8	1036.0	1288.1	1984.3	2461.9
67.5°	1263.8	1333.5	1382.1	1219.2	772.9	664.1	646.0	771.3	892.7	1301.4	1482.3
70°	712.6	745.5	767.4	703.2	491.7	344.5	324.2	353.9	539.5	842.6	878.6
72.5°	274.8	289.7	319.5	321.8	185.6	111.2	90.0	108.1	227.1	333.6	317.9
75°	42.3	45.4	64.2	76.7	53.2	40.7	43.1	44.6	63.4	86.1	72.0
77.5°	20.4	20.4	19.6	22.7	26.6	29.0	31.3	34.5	37.6	41.5	39.9
80°	13.3	13.3	13.3	15.7	19.6	23.5	26.6	28.2	29.8	32.9	31.3
82.5°	8.6	8.6	8.6	11.7	15.7	19.6	21.1	25.1	28.2	32.9	30.5
85°	4.7	4.7	4.7	7.8	11.7	16.4	15.7	12.5	7.0	0.8	1.6
87.5°	1.6	1.6	1.6	1.6	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: P647775

CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2
2.5°	2461.9	2425.9	2422.8	2349.2	2283.4	2251.3	2225.4	2153.4	2169.1	2127.6	2126.8
5°	2342.9	2269.3	2150.3	2052.4	1954.5	1934.9	1849.5	1775.1	1777.5	1724.2	1733.6
7.5°	2129.1	2078.2	1933.3	1779.8	1649.9	1557.5	1476.8	1428.3	1366.4	1345.3	1334.3
10°	1993.7	1931.0	1768.1	1575.5	1429.8	1380.5	1303.0	1259.9	1196.5	1165.2	1143.3
12.5°	1934.1	1842.5	1638.9	1443.1	1346.1	1295.2	1229.4	1151.1	1075.9	1046.9	1007.0
15°	1940.4	1830.7	1601.3	1389.9	1273.2	1174.6	1115.9	1028.9	952.2	901.3	872.3
17.5°	2035.2	1902.0	1618.5	1349.2	1181.6	1057.9	942.8	848.9	787.8	749.4	740.0
20°	2259.1	2078.2	1647.5	1283.4	1090.0	935.8	794.0	696.2	649.1	648.3	649.1
22.5°	2445.5	2266.2	1706.2	1244.3	998.4	779.2	638.1	606.8	597.4	617.0	619.4
25°	2696.8	2477.6	1807.2	1223.9	913.8	664.1	577.1	565.3	564.5	589.6	590.4
27.5°	2954.4	2662.4	1867.5	1164.4	827.7	604.5	540.3	537.9	550.4	577.1	574.7
30°	3129.8	2817.4	1976.4	1093.1	725.9	552.0	525.4	528.5	545.8	566.1	569.2
32.5°	3334.2	2970.1	2004.6	1054.0	663.3	508.2	489.4	496.4	518.3	550.4	567.7
35°	3568.4	3078.1	2047.7	1000.8	639.7	474.5	465.1	472.9	499.6	520.7	539.5
37.5°	3741.4	3269.3	2055.5	959.3	613.9	455.7	440.8	466.7	482.3	512.1	521.5
40°	3869.8	3407.9	2075.9	933.4	593.5	431.4	431.4	448.7	469.8	497.2	516.0
42.5°	3952.0	3508.9	2090.8	909.9	554.4	424.4	420.5	437.7	465.9	492.5	501.1
44°	4002.1	3551.9	2075.9	888.0	543.4	415.8	415.8	430.6	452.6	483.9	494.1
45°	4014.7	3605.9	2043.0	887.2	530.1	405.6	404.0	432.2	447.1	485.5	491.7
47.5°	4063.2	3672.5	2046.9	862.2	498.0	381.3	408.7	421.3	434.6	468.2	489.4
50°	4061.7	3714.0	2038.3	825.4	474.5	353.9	399.3	413.4	426.7	461.2	469.8
52.5°	4072.6	3869.0	2117.4	766.6	432.2	318.7	368.0	399.3	415.8	444.7	462.8
55°	4067.1	3957.5	2195.7	722.8	372.7	297.5	341.4	378.2	401.7	432.2	440.8
57.5°	3714.8	3497.9	2032.0	640.5	308.5	272.5	303.8	356.3	386.0	417.3	428.3
60°	3035.1	2696.0	1675.7	471.4	253.7	250.6	282.7	349.2	361.7	389.2	407.9
62.5°	2804.9	2364.8	1328.8	360.2	216.9	229.4	260.7	315.5	335.1	368.8	386.0
65°	2194.9	1570.8	823.0	243.5	191.1	205.9	235.7	276.4	308.5	339.8	360.2
67.5°	1299.9	858.2	407.2	170.7	166.8	182.4	213.0	243.5	280.3	314.8	324.9
70°	707.9	422.0	173.8	130.0	141.7	155.8	185.6	206.7	241.9	268.6	285.8
72.5°	227.1	128.4	86.9	96.3	108.1	124.5	142.5	168.3	193.4	209.1	223.2
75°	54.8	54.0	61.9	67.3	78.3	90.8	105.7	119.0	138.6	153.5	166.0
77.5°	38.4	41.5	47.8	55.6	59.5	64.2	73.6	83.8	92.4	103.4	111.2
80°	29.8	32.1	36.8	40.7	44.6	48.5	53.2	57.2	62.6	69.7	73.6
82.5°	28.2	29.8	34.5	36.8	35.2	34.5	37.6	39.2	39.9	42.3	44.6
85°	2.3	0.0	1.6	5.5	13.3	19.6	21.1	21.1	20.4	21.9	21.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.1	2.3
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: P647775

CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2
2.5°	2117.4	2090.8	2100.9	2113.5	2095.5	2054.0	2064.9	2060.2	2102.5	2099.4	2141.7
5°	1775.1	1733.6	1738.3	1799.4	1779.8	1801.0	1758.7	1753.2	1761.0	1765.0	1772.0
7.5°	1358.6	1353.1	1400.1	1451.8	1476.0	1451.0	1409.5	1400.1	1391.5	1374.2	1413.4
10°	1108.8	1110.4	1107.2	1146.4	1173.8	1168.3	1143.3	1140.1	1123.7	1117.4	1139.3
12.5°	989.8	968.6	958.5	945.9	967.1	981.2	970.2	962.4	963.2	971.0	974.1
15°	874.7	861.4	839.5	825.4	835.5	828.5	824.6	840.2	836.3	834.8	853.5
17.5°	745.5	756.5	754.9	739.2	752.5	747.1	746.3	735.3	720.4	709.5	715.7
20°	660.1	680.5	696.2	696.9	704.0	703.2	691.5	657.8	646.8	644.4	646.0
22.5°	629.5	640.5	659.4	686.0	686.0	673.5	659.4	620.1	610.0	599.0	594.3
25°	605.3	626.4	650.7	653.9	666.4	654.7	631.9	612.3	591.2	576.3	576.3
27.5°	592.7	616.2	634.2	639.7	657.0	647.5	624.1	599.0	573.9	573.2	559.8
30°	587.2	609.2	620.9	634.2	642.1	627.2	620.1	593.5	568.5	562.2	540.3
32.5°	570.8	602.1	624.1	620.9	627.2	620.9	610.7	588.8	560.6	546.5	544.2
35°	552.0	583.3	606.8	623.3	627.2	613.9	607.6	577.9	539.5	532.4	508.2
37.5°	541.8	560.6	589.6	616.2	621.7	614.7	593.5	563.0	524.6	516.8	495.6
40°	529.3	553.6	576.3	598.2	614.7	597.4	573.2	543.4	526.2	502.7	496.4
42.5°	519.9	547.3	566.1	590.4	609.2	586.5	558.3	537.9	513.6	498.0	480.0
44°	516.8	541.8	554.4	584.1	599.8	582.6	559.1	537.9	509.7	495.6	480.0
45°	505.8	540.3	553.6	580.2	593.5	579.4	549.7	528.5	508.2	490.9	474.5
47.5°	494.9	518.3	541.1	562.2	571.6	566.9	541.8	516.0	491.7	481.5	465.9
50°	491.7	515.2	536.4	555.9	566.9	557.5	534.8	509.7	481.5	465.1	451.8
52.5°	476.1	505.0	528.5	534.8	548.9	543.4	526.2	498.8	472.1	458.1	447.1
55°	453.4	483.9	516.0	523.8	544.2	535.6	509.7	483.9	461.2	440.0	426.0
57.5°	444.7	474.5	505.8	516.0	528.5	514.4	508.2	480.8	444.7	433.8	411.9
60°	422.8	460.4	486.2	509.7	510.5	506.6	495.6	464.3	434.6	414.2	398.5
62.5°	405.6	440.8	461.2	483.1	496.4	485.5	474.5	445.5	413.4	390.7	372.7
65°	380.5	412.6	429.9	443.2	458.1	456.5	437.7	416.6	382.9	364.9	347.7
67.5°	342.2	370.4	393.8	406.4	415.8	413.4	399.3	384.5	350.0	332.0	319.5
70°	296.0	324.9	339.8	346.9	356.3	361.0	350.0	343.0	312.4	288.9	277.2
72.5°	238.0	256.8	278.7	285.0	288.9	292.1	292.1	285.8	254.5	245.1	224.7
75°	175.4	190.3	206.7	206.7	213.8	214.5	216.1	212.2	188.7	176.2	171.5
77.5°	119.0	130.0	143.3	148.8	153.5	152.7	151.9	140.9	128.4	122.9	118.2
80°	77.5	88.5	94.7	101.8	106.5	105.7	107.3	99.4	94.0	84.6	86.1
82.5°	46.2	54.8	61.1	69.7	69.7	72.0	72.0	69.7	64.2	59.5	59.5
85°	21.9	29.0	32.9	38.4	41.5	42.3	37.6	32.1	26.6	24.3	26.6
87.5°	3.9	5.5	7.8	7.0	8.6	7.8	7.8	7.8	7.8	6.3	7.0
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: P647775

CATALOG NUMBER: GALN-SA2A-835-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2	2392.2
2.5°	2126.0	2165.2	2192.6	2238.0	2316.3	2378.9	2443.1	2490.9	2496.4	2510.5
5°	1797.8	1819.0	1888.7	1979.6	2043.8	2149.5	2217.6	2341.3	2387.5	2436.9
7.5°	1404.0	1438.4	1531.6	1592.7	1733.6	1866.0	2003.1	2155.8	2216.8	2223.9
10°	1184.0	1234.1	1297.5	1395.4	1472.1	1619.3	1790.0	1960.0	2028.1	2039.9
12.5°	1039.9	1104.1	1188.7	1259.1	1332.7	1461.2	1624.8	1834.6	1923.1	1976.4
15°	901.3	967.9	1061.0	1158.9	1223.9	1377.4	1570.0	1806.5	1921.6	1968.6
17.5°	758.8	820.7	897.4	1003.1	1133.9	1306.1	1561.4	1900.4	2026.6	2081.4
20°	636.6	671.1	760.4	869.2	1032.9	1233.3	1564.5	2039.1	2223.9	2248.1
22.5°	588.8	596.6	631.9	732.2	911.5	1158.9	1620.1	2235.6	2445.5	2525.3
25°	552.0	550.4	559.8	627.2	823.0	1129.9	1674.9	2416.5	2691.3	2778.2
27.5°	531.7	516.0	516.8	580.2	760.4	1083.0	1745.4	2624.0	2970.1	3008.4
30°	521.5	518.3	509.0	534.8	692.3	1012.5	1757.1	2828.4	3134.5	3190.1
32.5°	515.2	484.7	472.9	482.3	628.0	935.8	1801.0	2963.0	3338.2	3313.9
35°	483.9	456.5	448.7	458.1	582.6	892.7	1772.0	3080.5	3490.8	3531.6
37.5°	472.1	447.9	432.2	424.4	540.3	856.7	1757.1	3261.4	3638.8	3736.7
40°	461.2	435.3	416.6	408.7	507.4	808.9	1752.4	3400.8	3809.5	3868.3
42.5°	448.7	432.2	411.1	397.0	467.5	761.2	1698.4	3443.9	3862.0	3925.4
44°	444.7	419.7	397.8	393.1	451.8	736.9	1687.4	3483.0	3907.4	4003.7
45°	440.8	417.3	392.3	386.0	446.3	723.6	1672.6	3492.4	3982.6	4000.6
47.5°	429.9	415.0	390.7	373.5	434.6	694.6	1627.9	3439.2	3905.8	3909.0
50°	421.3	404.0	379.0	345.3	418.9	670.3	1648.3	3419.6	3721.1	3728.1
52.5°	411.9	386.0	371.9	314.0	393.1	649.9	1691.4	3508.1	3742.2	3740.6
55°	400.9	372.7	338.3	287.4	350.0	624.1	1795.5	3682.7	3937.9	3964.6
57.5°	383.7	359.4	310.1	263.9	300.7	574.7	1761.8	3348.3	3623.2	3627.9
60°	361.0	338.3	281.1	245.9	246.6	453.4	1575.5	2609.1	2858.9	2927.0
62.5°	339.0	326.5	256.8	220.0	209.8	361.0	1332.0	2168.3	2454.1	2510.5
65°	313.2	282.7	235.7	200.4	180.1	252.9	943.6	1620.1	1914.5	1990.5
67.5°	280.3	247.4	207.5	176.2	154.3	169.1	487.0	920.9	1219.2	1263.8
70°	245.1	214.5	174.6	148.8	124.5	116.7	214.5	439.3	666.4	712.6
72.5°	201.2	173.0	139.4	117.4	93.2	80.6	72.0	117.4	236.5	274.8
75°	145.6	126.1	104.9	83.8	65.8	51.7	42.3	35.2	39.2	42.3
77.5°	107.3	91.6	77.5	59.5	46.2	36.8	29.0	21.9	21.1	20.4
80°	83.8	74.4	61.9	47.8	36.0	27.4	20.4	14.9	13.3	13.3
82.5°	65.8	61.1	50.9	39.2	29.8	21.9	14.9	10.2	8.6	8.6
85°	25.1	25.1	36.8	32.1	22.7	15.7	10.2	5.5	4.7	4.7
87.5°	6.3	6.3	6.3	6.3	5.5	4.7	4.7	2.3	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)