

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: P949314

Luminaire Tested: **GALN-SB4A-835-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12726 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

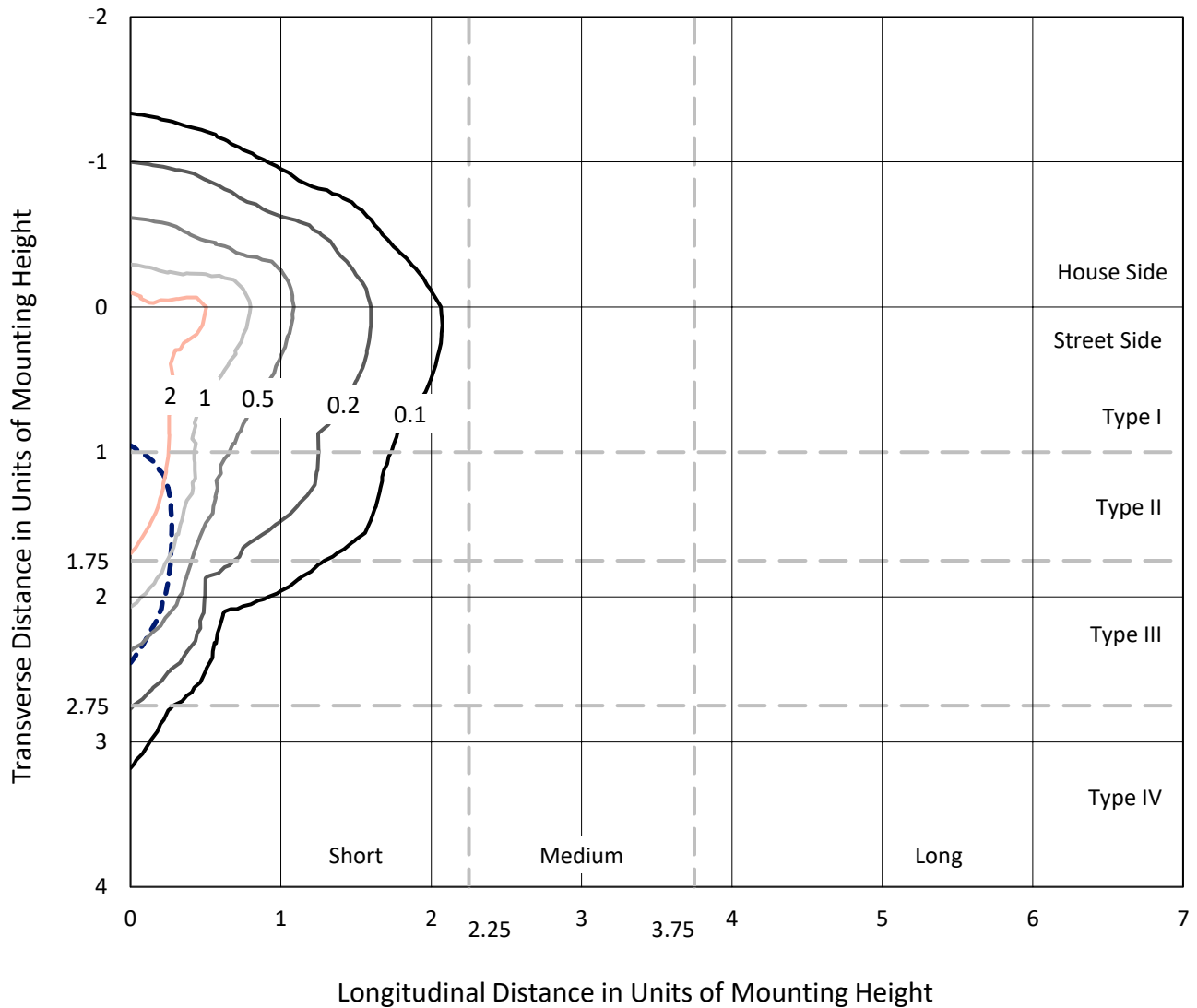
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949314
 CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

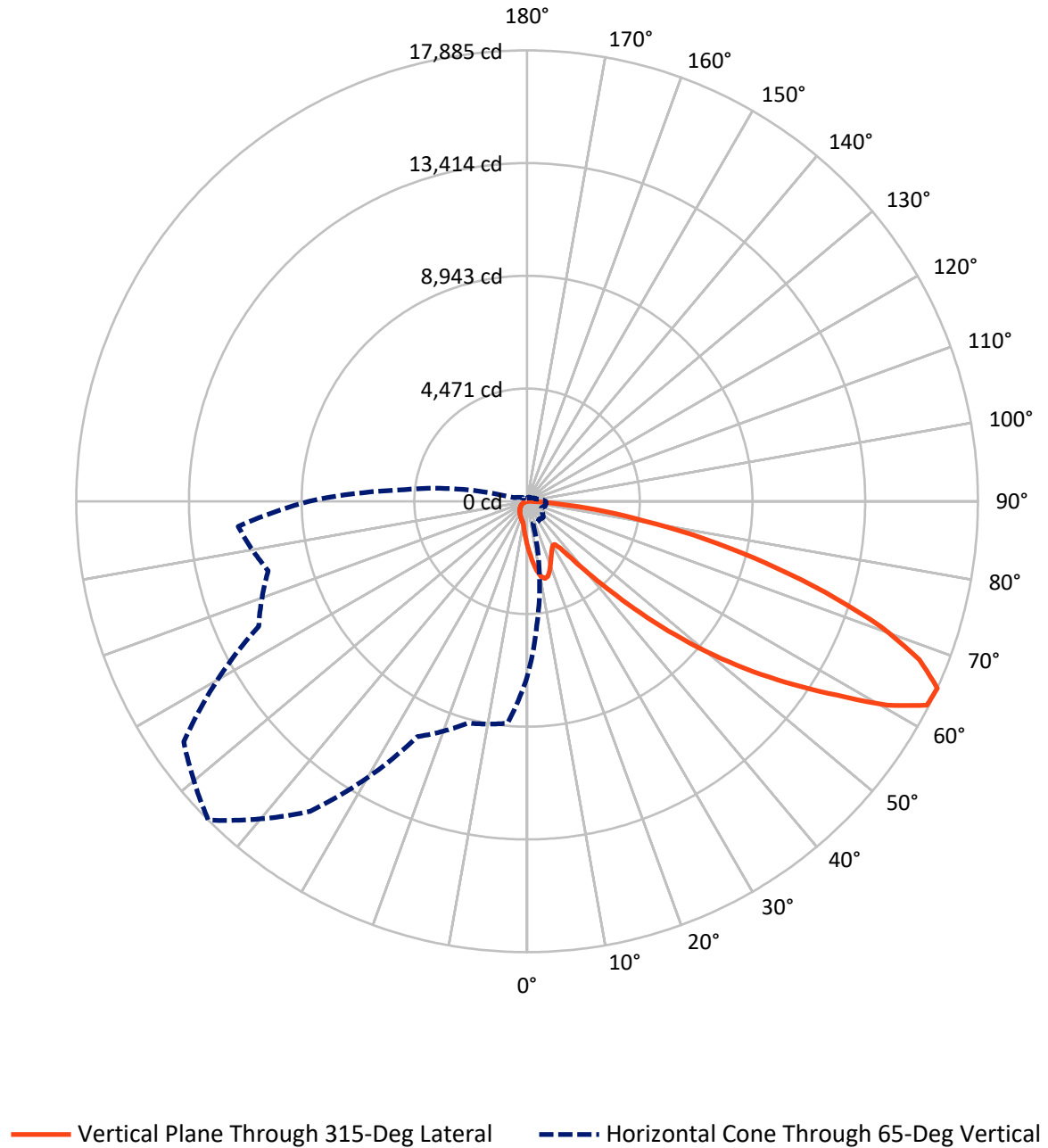
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P949314
CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949314
 CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1782.2	0.0	1782.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10943.8	0.0	10943.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	12726.0	0.0	12726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.4
10°-20°	520.1	4.1
20°-30°	766.2	6.0
30°-40°	984.3	7.7
40°-50°	1591.9	12.5
50°-60°	2791.6	21.9
60°-70°	3493.1	27.4
70°-80°	2041.2	16.0
80°-90°	364.2	2.9
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°	12726.0	100.0
0°-180°	12726.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949314

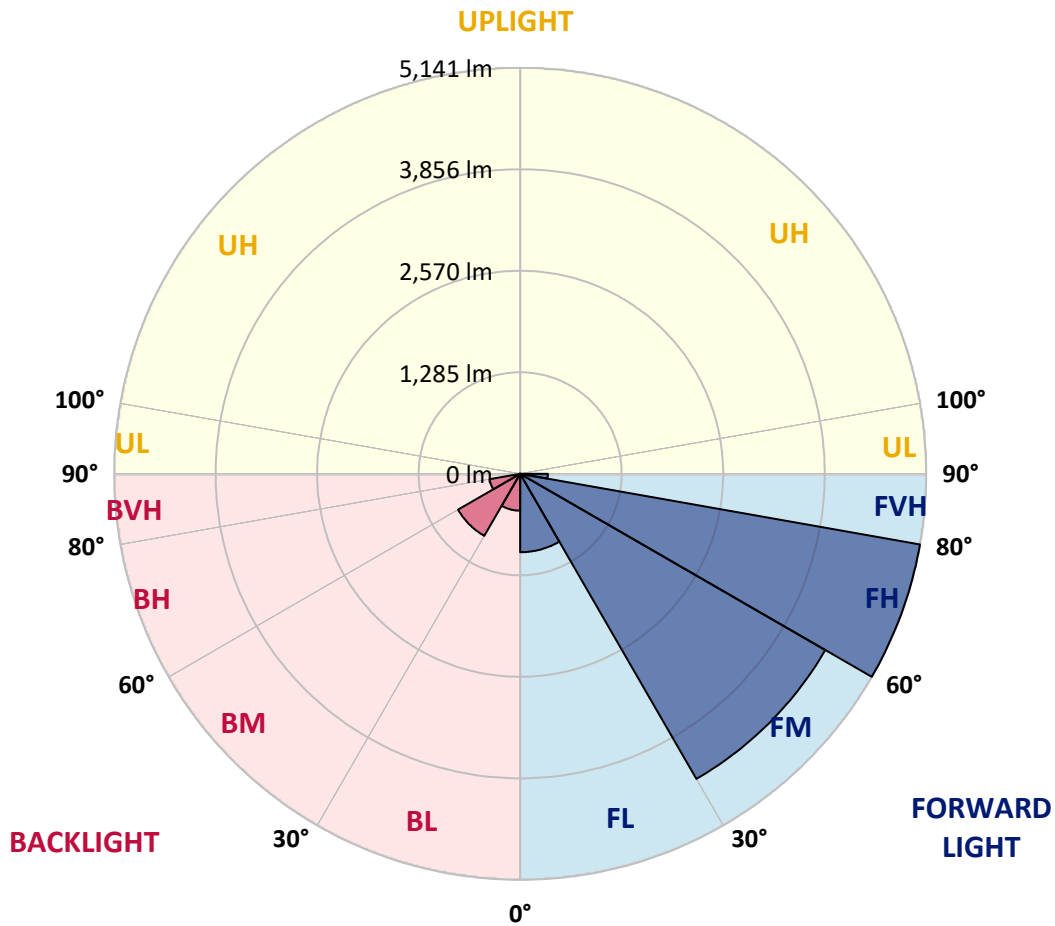
CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.6	7.8			
FM (30°-60°)	4460.3	35.0			
FH (60°-80°)	5140.7	40.4			G3/7500
FVH (80°-90°)	350.2	2.8			G3/500
BL (0°-30°)	467.1	3.7	B1/500		
BM (30°-60°)	907.5	7.1	B1/1000		
BH (60°-80°)	393.5	3.1	B1/500		G1/500
BVH (80°-90°)	14.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P949314

CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
2.5°	1991.0	1956.8	1936.6	1886.6	1836.7	1796.3	1742.0	1706.0	1663.1	1621.9
5°	2218.9	2163.7	2097.0	2005.9	1922.6	1837.5	1755.1	1673.6	1587.7	1508.8
7.5°	2411.8	2332.0	2214.5	2093.5	1987.5	1884.9	1788.4	1680.6	1576.3	1452.7
10°	2559.1	2457.4	2303.1	2144.4	2022.5	1919.1	1825.3	1734.1	1628.9	1479.9
12.5°	2648.5	2539.8	2356.5	2170.7	2031.3	1915.6	1842.8	1802.5	1761.3	1613.1
15°	2714.2	2596.8	2394.2	2189.1	2011.1	1869.1	1815.6	1855.9	1903.3	1808.6
17.5°	2782.6	2659.0	2443.3	2197.0	1956.8	1778.8	1756.0	1860.3	1969.9	1965.5
20°	2847.5	2724.7	2486.3	2191.7	1869.1	1669.2	1689.4	1822.6	1949.8	2003.2
22.5°	2922.0	2792.3	2527.5	2171.6	1755.1	1566.6	1629.8	1763.0	1874.4	1937.5
25°	3013.2	2877.3	2585.4	2141.7	1632.4	1481.6	1569.3	1693.8	1784.1	1827.9
27.5°	3111.4	2979.0	2662.5	2126.0	1533.3	1421.1	1500.9	1611.4	1692.0	1722.7
30°	3233.2	3097.3	2753.7	2108.4	1468.5	1386.0	1429.9	1515.8	1594.7	1625.4
32.5°	3366.5	3228.8	2841.3	2066.4	1429.0	1359.7	1360.6	1415.0	1486.9	1523.7
35°	3533.1	3386.6	2935.2	1974.3	1397.4	1329.1	1293.1	1319.4	1379.0	1422.9
37.5°	3770.6	3593.5	3050.0	1842.8	1351.0	1281.7	1222.1	1228.2	1273.8	1322.0
40°	4098.5	3871.5	3185.0	1706.0	1284.3	1215.1	1144.1	1141.4	1174.8	1222.1
42.5°	4542.1	4238.8	3347.2	1575.4	1220.4	1134.4	1061.7	1057.3	1083.6	1124.8
45°	5127.8	4708.7	3546.2	1463.2	1170.4	1055.5	983.6	981.9	1003.8	1039.8
47.5°	5877.3	5361.8	3745.2	1386.9	1144.1	993.3	919.6	923.2	942.4	974.9
50°	6847.8	6213.1	3805.7	1348.3	1144.1	960.0	862.7	880.2	896.0	920.5
52.5°	8011.2	7030.2	3605.8	1313.3	1151.1	964.4	814.4	852.1	863.5	884.6
55°	9089.5	7430.8	3100.0	1265.1	1152.8	991.5	773.2	829.3	850.4	858.3
57.5°	9715.5	7293.2	2506.5	1183.5	1145.8	1009.9	746.9	801.3	841.6	846.9
60°	9596.2	6810.1	1845.4	1121.3	1094.1	1002.9	739.0	758.3	822.3	830.2
62.5°	8677.5	6000.1	1280.8	1073.1	980.1	972.2	736.4	690.8	780.3	799.5
65°	6974.9	4723.6	904.7	924.0	859.2	905.6	722.4	620.7	729.4	755.7
67.5°	5060.2	3196.4	653.1	748.7	778.5	797.8	690.8	569.8	671.5	706.6
70°	3247.3	1726.2	458.5	494.5	655.8	677.7	636.5	524.3	612.8	653.1
72.5°	2308.3	1019.6	329.6	346.3	526.9	564.6	560.2	473.4	544.4	593.5
75°	1592.9	562.0	222.7	247.2	382.2	458.5	432.2	406.8	461.1	511.1
77.5°	998.5	251.6	133.3	171.8	250.7	360.3	296.3	314.7	359.4	405.9
80°	555.8	97.3	74.5	114.0	136.8	262.1	163.9	202.5	264.8	298.1
82.5°	121.0	12.3	33.3	49.1	53.5	152.5	86.8	117.5	166.6	163.9
85°	0.0	0.0	6.1	7.0	3.5	65.8	31.6	38.6	54.4	50.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949314
 CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1762.1	0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
1585.1	2.5°	1578.0	1535.1	1503.5	1487.7	1474.6	1486.9	1493.9	1493.9	1523.7	1541.2
1460.6	5°	1429.9	1352.7	1294.0	1254.5	1230.9	1238.8	1247.5	1257.2	1294.9	1320.3
1386.9	7.5°	1327.3	1209.0	1119.5	1064.3	1035.4	1039.8	1045.9	1053.8	1090.6	1116.0
1397.4	10°	1308.0	1137.9	1011.7	938.9	903.9	897.7	894.2	891.6	913.5	932.8
1516.7	12.5°	1386.9	1141.4	965.2	876.7	833.7	815.3	794.3	777.6	781.1	793.4
1697.3	15°	1528.1	1186.2	950.3	844.3	790.8	760.1	735.5	715.4	711.0	715.4
1855.1	17.5°	1689.4	1246.7	948.6	816.2	749.6	718.0	697.8	679.4	673.3	674.2
1943.6	20°	1796.3	1294.9	943.3	784.6	710.1	682.1	664.5	646.1	640.0	641.7
1919.1	22.5°	1806.9	1320.3	935.4	749.6	670.7	647.0	629.5	612.8	611.9	611.9
1827.0	25°	1749.9	1320.3	918.8	718.0	633.0	611.9	596.1	576.0	579.5	581.2
1722.7	27.5°	1661.3	1288.7	887.2	692.6	600.5	578.6	562.8	544.4	548.8	551.4
1625.4	30°	1573.7	1248.4	849.5	663.7	569.8	544.4	533.0	517.2	519.0	522.5
1528.9	32.5°	1492.1	1205.4	804.8	640.0	539.2	513.7	505.0	487.4	490.1	493.6
1434.3	35°	1411.5	1158.1	752.2	611.9	511.1	485.7	478.7	458.5	460.3	465.5
1339.6	37.5°	1324.7	1108.1	709.2	583.9	483.9	457.6	450.6	429.6	431.3	437.5
1241.4	40°	1233.5	1059.0	667.2	554.1	455.0	428.7	422.6	399.8	401.5	408.5
1145.0	42.5°	1141.4	1005.6	634.7	515.5	425.2	397.1	391.0	370.0	372.6	380.5
1060.8	45°	1056.4	941.6	613.7	472.5	397.1	365.6	359.4	340.2	345.4	354.2
989.8	47.5°	983.6	875.8	604.9	436.6	367.3	333.1	327.9	312.1	320.9	330.5
929.3	50°	921.4	812.7	593.5	399.8	339.3	305.1	299.8	289.3	300.7	310.3
888.1	52.5°	876.7	740.8	569.0	366.5	314.7	281.4	279.7	274.4	284.9	293.7
857.4	55°	838.1	666.3	529.5	337.5	292.8	261.3	263.0	260.4	269.1	276.2
839.0	57.5°	803.0	601.4	479.5	314.7	269.1	243.7	249.0	245.5	249.9	254.2
819.7	60°	761.0	535.7	419.9	289.3	241.1	226.2	232.3	222.7	221.8	223.6
784.6	62.5°	698.7	447.1	357.7	257.7	216.5	206.9	209.5	191.1	177.1	177.1
732.9	65°	611.9	359.4	299.8	222.7	188.5	180.6	178.8	152.5	133.3	131.5
676.8	67.5°	511.1	295.4	249.0	187.6	156.9	151.7	153.4	134.1	114.8	113.1
620.7	70°	416.4	244.6	200.8	149.9	121.0	126.2	134.1	114.8	96.4	93.8
554.9	72.5°	338.4	194.6	156.9	114.8	89.4	104.3	114.0	93.8	76.3	74.5
473.4	75°	261.3	142.9	112.2	78.0	64.9	80.7	89.4	68.4	54.4	51.7
366.5	77.5°	174.5	88.5	63.1	49.1	38.6	55.2	59.6	35.9	31.6	30.7
266.5	80°	106.1	41.2	27.2	23.7	13.2	20.2	23.7	14.9	16.7	17.5
142.0	82.5°	53.5	11.4	4.4	0.9	0.0	0.0	7.0	3.5	7.0	8.8
38.6	85°	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.4
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

REPORT NUMBER: P949314
 CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1762.1	0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
1548.2	2.5°	1597.3	1634.1	1669.2	1725.3	1783.2	1840.2	1898.0	1954.1	1974.3	1989.2
1336.9	5°	1413.2	1482.5	1563.1	1674.5	1793.7	1916.4	2040.9	2154.9	2206.6	2241.7
1137.9	7.5°	1223.0	1313.3	1429.0	1596.4	1783.2	1978.7	2174.2	2353.9	2437.2	2504.7
950.3	10°	1034.5	1132.7	1279.1	1470.2	1722.7	2003.2	2273.3	2520.5	2628.3	2713.4
815.3	12.5°	868.8	960.9	1114.3	1325.6	1628.0	1983.9	2330.2	2627.4	2754.6	2850.1
718.9	15°	752.2	817.1	953.0	1180.9	1515.8	1921.7	2333.7	2678.3	2817.7	2917.6
678.6	17.5°	687.3	709.2	797.8	1033.6	1391.3	1840.2	2301.3	2695.8	2844.9	2937.8
642.6	20°	652.3	655.8	680.3	842.5	1231.7	1763.9	2270.6	2713.4	2870.3	2948.3
617.2	22.5°	624.2	624.2	630.3	689.1	1025.7	1672.7	2261.0	2744.0	2905.3	2953.6
588.3	25°	598.8	598.8	600.5	616.3	812.7	1533.3	2254.8	2791.4	2953.6	2966.7
559.3	27.5°	572.5	573.4	573.4	582.1	654.9	1344.0	2228.5	2852.7	3011.4	2984.2
531.3	30°	546.2	547.9	547.9	554.1	579.5	1122.2	2176.8	2926.4	3086.8	3007.0
503.2	32.5°	519.9	521.6	521.6	526.9	545.3	896.0	2111.9	2993.9	3163.1	3016.7
476.0	35°	492.7	495.3	493.6	500.6	519.9	712.7	2029.5	3061.4	3245.5	3047.4
449.7	37.5°	465.5	467.3	466.4	473.4	495.3	615.4	1934.0	3112.2	3357.7	3115.8
421.7	40°	438.3	437.5	437.5	445.4	469.0	587.4	1813.9	3192.9	3519.0	3235.9
393.6	42.5°	410.3	410.3	408.5	417.3	446.2	566.3	1699.0	3337.6	3754.0	3427.0
367.3	45°	384.9	384.0	380.5	388.4	424.3	529.5	1658.7	3607.6	4101.1	3736.4
341.0	47.5°	360.3	359.4	350.7	357.7	398.0	496.2	1809.5	4049.4	4582.5	4191.4
320.0	50°	338.4	339.3	322.6	328.8	371.7	470.8	2136.5	4622.8	5221.6	4804.3
302.5	52.5°	318.2	318.2	296.3	299.8	339.3	448.0	2447.7	5244.4	6064.9	5659.0
284.0	55°	298.1	296.3	271.8	273.5	306.8	415.6	2494.2	5851.0	7215.1	6945.1
263.9	57.5°	275.3	271.8	249.0	249.0	277.0	391.9	2161.9	6317.4	8642.4	8835.3
226.2	60°	247.2	244.6	229.7	225.3	253.4	412.9	1525.4	6371.8	9562.9	11348.7
179.7	62.5°	211.3	214.8	206.9	200.8	230.6	428.7	903.9	5934.3	9340.2	12148.3
139.4	65°	166.6	180.6	178.8	174.5	253.4	361.2	533.9	5094.4	8657.3	11503.0
121.9	67.5°	142.0	151.7	149.0	149.0	265.6	274.4	335.8	3980.2	7717.5	10737.7
101.7	70°	121.0	130.6	121.0	121.0	200.8	166.6	232.3	2779.1	6703.2	9890.8
81.5	72.5°	99.9	109.6	99.1	92.1	160.4	124.5	170.1	1736.7	5740.6	9008.9
57.9	75°	76.3	87.7	79.8	71.0	106.1	92.9	128.9	1009.1	4756.0	7707.8
35.1	77.5°	48.2	63.1	59.6	50.0	78.0	67.5	92.9	600.5	3669.8	6022.8
21.0	80°	29.8	32.4	33.3	31.6	44.7	45.6	63.1	341.9	2511.7	4197.6
13.2	82.5°	19.3	19.3	14.9	16.7	21.9	26.3	35.9	128.9	1476.3	2555.5
7.9	85°	14.0	12.3	7.9	7.9	10.5	13.2	14.0	39.5	598.8	1009.1
3.5	87.5°	7.0	6.1	2.6	3.5	5.3	4.4	3.5	1.8	150.8	322.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949314
 CATALOG NUMBER: GALN-SB4A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1762.1	0°	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1	1762.1
2022.5	2.5°	2040.1	2067.2	2069.0	2069.0	2045.3	2044.4	1996.2	1991.0
2320.6	5°	2402.1	2419.7	2424.0	2415.3	2367.9	2332.9	2239.1	2218.9
2624.8	7.5°	2733.5	2768.6	2768.6	2747.5	2670.4	2598.5	2462.6	2411.8
2876.4	10°	2998.3	3038.6	3029.8	2986.9	2889.6	2790.5	2625.7	2559.1
3029.0	12.5°	3127.1	3168.4	3145.6	3096.5	3001.8	2897.5	2723.9	2648.5
3072.8	15°	3124.5	3113.1	3089.5	3083.3	3037.7	2958.8	2796.6	2714.2
3045.6	17.5°	3013.2	2916.7	2898.3	2959.7	3017.6	2998.3	2859.8	2782.6
2980.7	20°	2837.0	2668.6	2652.0	2769.5	2934.3	3018.4	2918.5	2847.5
2886.9	22.5°	2651.1	2469.6	2431.1	2560.8	2808.9	3024.6	2993.0	2922.0
2783.5	25°	2474.9	2292.5	2254.0	2374.9	2669.5	3014.1	3073.7	3013.2
2684.4	27.5°	2327.6	2151.4	2115.4	2236.4	2535.4	2984.2	3154.3	3111.4
2586.2	30°	2213.6	2050.6	2024.3	2140.9	2419.7	2947.4	3256.9	3233.2
2495.1	32.5°	2147.0	2027.8	2037.4	2133.0	2357.4	2907.1	3355.1	3366.5
2450.3	35°	2212.8	2218.0	2302.2	2341.6	2415.3	2901.0	3488.3	3533.1
2503.8	37.5°	2539.8	2722.1	2896.6	2864.1	2698.4	2972.0	3687.4	3770.6
2737.0	40°	3096.5	3470.8	3754.0	3630.4	3213.1	3189.4	3974.0	4098.5
3150.8	42.5°	3776.8	4411.5	4877.9	4546.5	3876.7	3569.9	4383.4	4542.1
3651.4	45°	4494.8	5571.4	6306.0	5616.9	4584.2	4102.9	5003.3	5127.8
4120.4	47.5°	5251.4	6981.1	7931.4	6804.0	5240.0	4709.6	5848.4	5877.3
4564.9	50°	6079.0	8526.7	9588.3	7990.1	5872.9	5404.8	6881.1	6847.8
5083.0	52.5°	6867.1	10116.1	11210.2	9181.6	6428.8	6267.4	8079.6	8011.2
5791.4	55°	7619.3	11704.7	12841.7	10326.5	6953.0	7407.1	9503.3	9089.5
6812.7	57.5°	8491.6	13132.8	14523.2	11476.7	7685.9	8887.0	11095.4	9715.5
8768.6	60°	9781.2	14755.5	16424.8	13053.0	9079.9	10442.2	11666.1	9596.2
11111.1	62.5°	11427.6	16247.7	17807.3	14597.7	10479.9	10735.1	10825.3	8677.5
10633.4	65°	11747.6	16625.5	17885.3	15010.7	10299.3	9106.2	8837.9	6974.9
9498.0	67.5°	10899.0	15942.6	16794.7	14241.8	9110.5	7037.2	6632.1	5060.2
8752.9	70°	9946.9	14640.7	14894.1	12934.7	8012.9	5176.0	4479.0	3247.3
8242.6	72.5°	8971.2	12904.0	12379.7	11233.0	7042.4	3768.9	3230.6	2308.3
7515.9	75°	7812.2	10620.2	9751.4	9333.2	5830.9	2957.9	2337.3	1592.9
6464.7	77.5°	6256.0	7475.5	7243.2	7234.4	4381.7	2161.0	1559.6	998.5
5050.6	80°	4413.2	4851.6	4733.2	5448.6	2939.5	1567.5	938.9	555.8
3515.5	82.5°	2136.5	2682.7	2753.7	3244.6	1429.9	922.3	216.5	121.0
1374.6	85°	836.4	1294.0	1091.5	1231.7	401.5	256.9	5.3	0.0
226.2	87.5°	93.8	149.9	137.6	108.7	49.1	10.5	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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