

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: P949713

Luminaire Tested: **GALN-SB4B-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949713
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-SB4B-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA 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: 16475 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

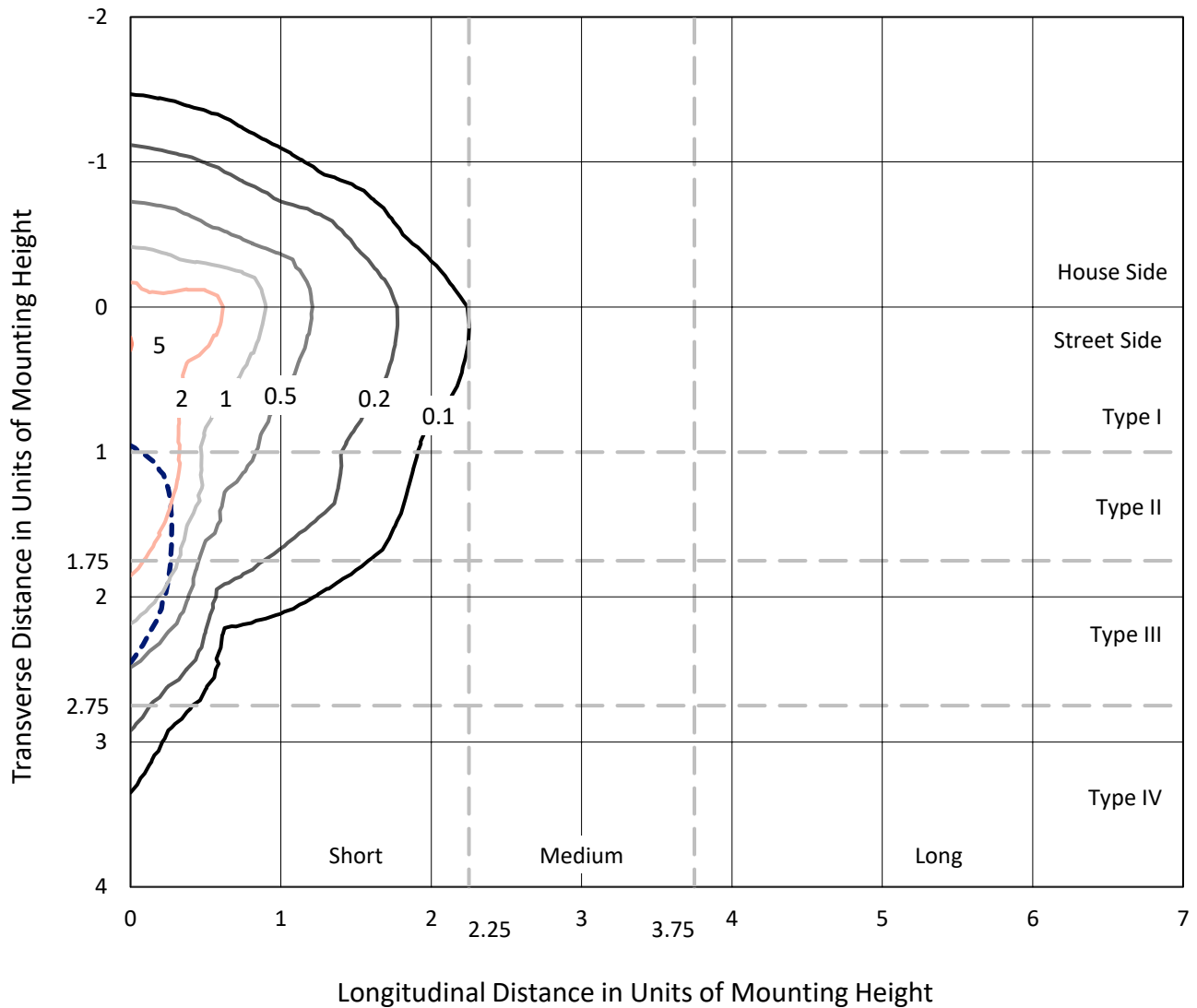
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949713
 CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

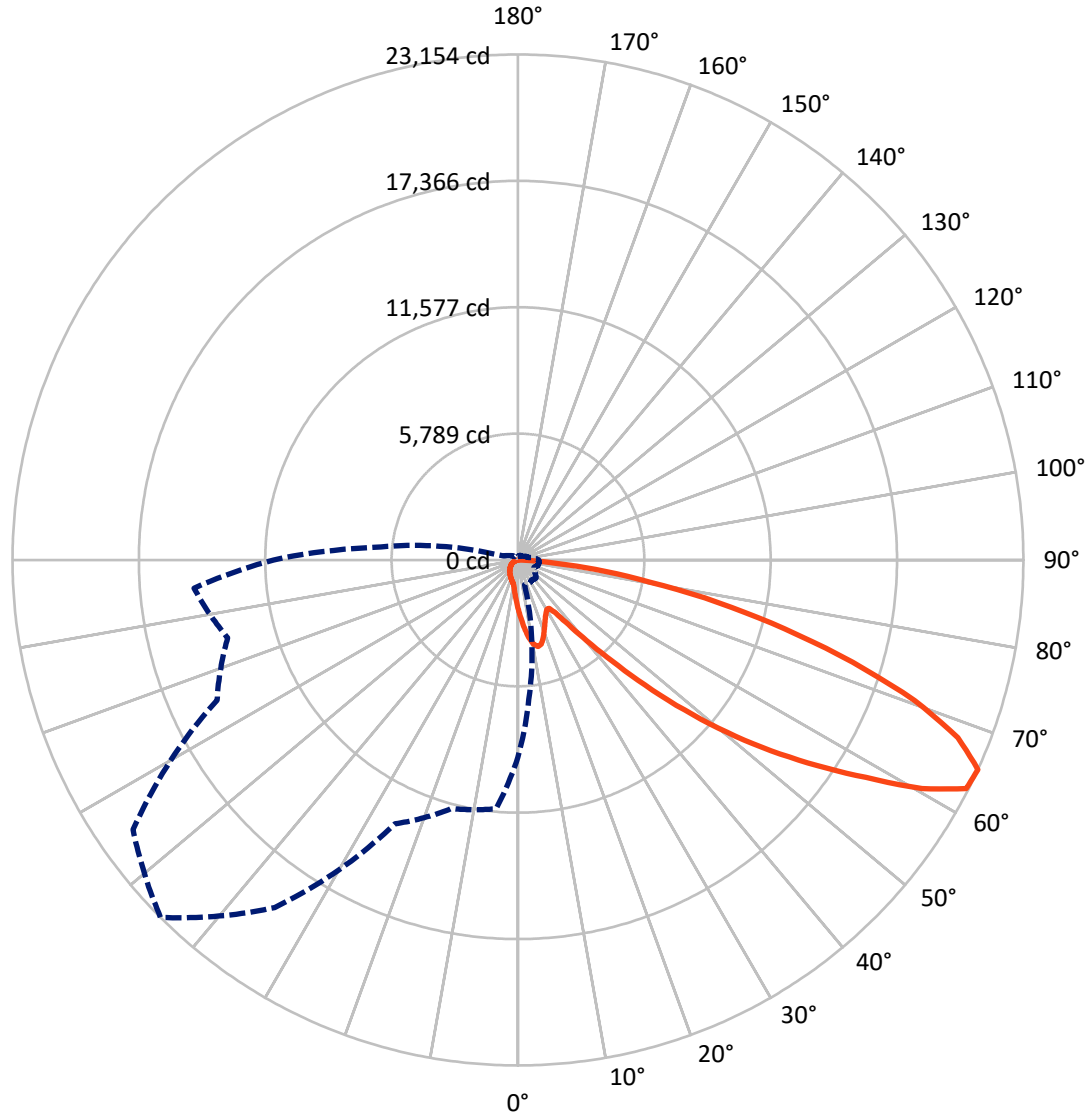
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P949713
CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P949713
 CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2307.2	0.0	2307.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14167.8	0.0	14167.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	16475.0	0.0	16475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	1.4
10°-20°	673.3	4.1
20°-30°	991.9	6.0
30°-40°	1274.3	7.7
40°-50°	2060.9	12.5
50°-60°	3614.0	21.9
60°-70°	4522.1	27.4
70°-80°	2642.5	16.0
80°-90°	471.5	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°	16475.0	100.0
0°-180°	16475.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949713

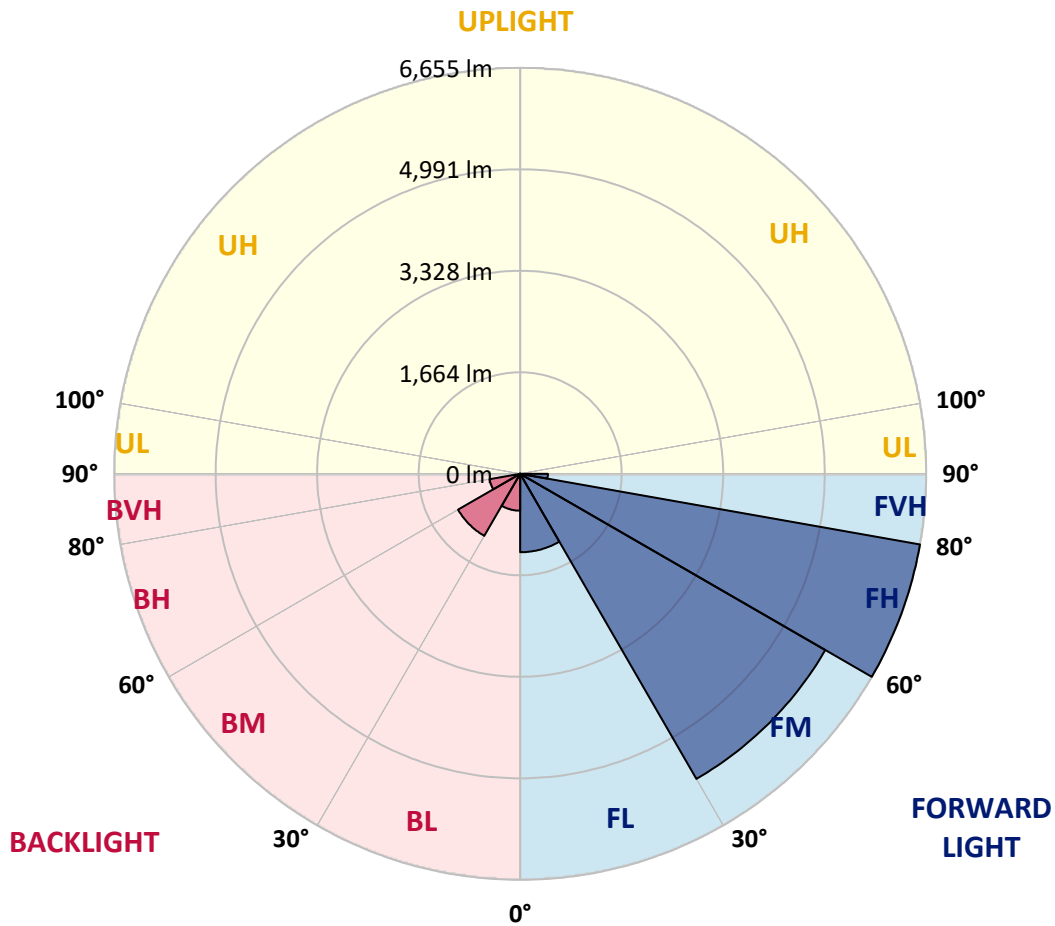
CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.0	7.8			
FM (30°-60°)	5774.3	35.0			
FH (60°-80°)	6655.1	40.4			G3/7500
FVH (80°-90°)	453.4	2.8			G3/500
BL (0°-30°)	604.8	3.7	B2/1000		
BM (30°-60°)	1174.9	7.1	B2/2500		
BH (60°-80°)	509.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	18.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P949713
 CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2.5°	2577.5	2533.2	2507.1	2442.4	2377.7	2325.5	2255.2	2208.6	2153.0	2099.7
5°	2872.6	2801.1	2714.8	2596.8	2489.0	2378.9	2272.2	2166.6	2055.4	1953.3
7.5°	3122.3	3019.0	2866.9	2710.3	2572.9	2440.2	2315.3	2175.7	2040.6	1880.6
10°	3312.9	3181.3	2981.5	2776.1	2618.3	2484.4	2363.0	2244.9	2108.7	1915.8
12.5°	3428.7	3288.0	3050.8	2810.1	2629.7	2479.9	2385.7	2333.5	2280.1	2088.3
15°	3513.8	3361.7	3099.6	2834.0	2603.6	2419.7	2350.5	2402.7	2464.0	2341.4
17.5°	3602.3	3442.3	3163.1	2844.2	2533.2	2302.8	2273.3	2408.4	2550.2	2544.6
20°	3686.3	3527.4	3218.7	2837.4	2419.7	2161.0	2187.1	2359.6	2524.1	2593.4
22.5°	3782.8	3614.8	3272.1	2811.3	2272.2	2028.2	2109.9	2282.4	2426.5	2508.3
25°	3900.8	3724.9	3347.0	2772.7	2113.3	1918.1	2031.6	2192.7	2309.6	2366.4
27.5°	4028.0	3856.6	3446.9	2752.3	1985.0	1839.8	1943.0	2086.0	2190.5	2230.2
30°	4185.7	4009.8	3564.9	2729.6	1901.1	1794.4	1851.1	1962.3	2064.5	2104.2
32.5°	4358.2	4180.0	3678.4	2675.1	1850.0	1760.3	1761.5	1831.8	1924.9	1972.6
35°	4573.9	4384.3	3799.8	2555.9	1809.1	1720.6	1674.1	1708.1	1785.3	1842.0
37.5°	4881.4	4652.2	3948.5	2385.7	1749.0	1659.3	1582.1	1590.1	1649.1	1711.5
40°	5305.9	5012.0	4123.3	2208.6	1662.7	1573.0	1481.1	1477.7	1520.8	1582.1
42.5°	5880.2	5487.5	4333.3	2039.5	1579.9	1468.6	1374.4	1368.8	1402.8	1456.1
45°	6638.4	6095.8	4590.9	1894.2	1515.2	1366.5	1273.4	1271.2	1299.5	1346.1
47.5°	7608.7	6941.4	4848.5	1795.5	1481.1	1285.9	1190.6	1195.1	1220.1	1262.1
50°	8865.1	8043.4	4926.8	1745.6	1481.1	1242.8	1116.8	1139.5	1159.9	1191.7
52.5°	10371.2	9101.2	4668.1	1700.2	1490.2	1248.5	1054.4	1103.2	1117.9	1145.2
55°	11767.2	9619.9	4013.2	1637.7	1492.5	1283.6	1001.0	1073.7	1100.9	1111.1
57.5°	12577.6	9441.7	3244.8	1532.2	1483.4	1307.5	967.0	1037.3	1089.6	1096.4
60°	12423.2	8816.3	2389.1	1451.6	1416.4	1298.4	956.8	981.7	1064.6	1074.8
62.5°	11233.8	7767.6	1658.2	1389.2	1268.9	1258.7	953.4	894.3	1010.1	1035.1
65°	9029.7	6115.1	1171.3	1196.2	1112.3	1172.4	935.2	803.5	944.3	978.3
67.5°	6551.0	4138.0	845.5	969.3	1007.8	1032.8	894.3	737.7	869.4	914.8
70°	4203.9	2234.7	593.6	640.1	848.9	877.3	824.0	678.7	793.3	845.5
72.5°	2988.3	1320.0	426.7	448.3	682.1	730.9	725.2	612.9	704.8	768.4
75°	2062.2	727.5	288.3	320.1	494.8	593.6	559.5	526.6	597.0	661.7
77.5°	1292.7	325.7	172.5	222.5	324.6	466.5	383.6	407.4	465.3	525.5
80°	719.6	126.0	96.5	147.5	177.1	339.4	212.2	262.2	342.8	385.9
82.5°	156.6	15.9	43.1	63.6	69.2	197.5	112.4	152.1	215.6	212.2
85°	0.0	0.0	7.9	9.1	4.5	85.1	40.9	49.9	70.4	65.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949713
 CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2281.3	0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2052.0	2.5°	2042.9	1987.3	1946.4	1926.0	1909.0	1924.9	1934.0	1934.0	1972.6	1995.3
1890.8	5°	1851.1	1751.2	1675.2	1624.1	1593.5	1603.7	1615.0	1627.5	1676.3	1709.2
1795.5	7.5°	1718.3	1565.1	1449.3	1377.8	1340.4	1346.1	1354.0	1364.2	1411.9	1444.8
1809.1	10°	1693.4	1473.2	1309.7	1215.5	1170.1	1162.2	1157.7	1154.2	1182.6	1207.6
1963.5	12.5°	1795.5	1477.7	1249.6	1135.0	1079.3	1055.5	1028.3	1006.7	1011.2	1027.1
2197.3	15°	1978.2	1535.6	1230.3	1093.0	1023.7	984.0	952.2	926.1	920.4	926.1
2401.6	17.5°	2187.1	1613.9	1228.0	1056.6	970.4	929.5	903.4	879.6	871.6	872.8
2516.2	20°	2325.5	1676.3	1221.2	1015.8	919.3	883.0	860.3	836.5	828.5	830.8
2484.4	22.5°	2339.1	1709.2	1211.0	970.4	868.2	837.6	814.9	793.3	792.2	792.2
2365.2	25°	2265.4	1709.2	1189.4	929.5	819.4	792.2	771.8	745.7	750.2	752.5
2230.2	27.5°	2150.7	1668.4	1148.6	896.6	777.4	749.1	728.6	704.8	710.5	713.9
2104.2	30°	2037.2	1616.2	1099.8	859.2	737.7	704.8	690.1	669.6	671.9	676.4
1979.4	32.5°	1931.7	1560.6	1041.9	828.5	698.0	665.1	653.7	631.0	634.4	639.0
1856.8	35°	1827.3	1499.3	973.8	792.2	661.7	628.8	619.7	593.6	595.9	602.7
1734.2	37.5°	1714.9	1434.6	918.2	755.9	626.5	592.4	583.4	556.1	558.4	566.3
1607.1	40°	1596.9	1371.0	863.7	717.3	589.0	555.0	547.0	517.5	519.8	528.9
1482.3	42.5°	1477.7	1301.8	821.7	667.4	550.5	514.1	506.2	479.0	482.4	492.6
1373.3	45°	1367.6	1218.9	794.5	611.7	514.1	473.3	465.3	440.4	447.2	458.5
1281.4	47.5°	1273.4	1133.8	783.1	565.2	475.5	431.3	424.5	404.0	415.4	427.9
1203.1	50°	1192.8	1052.1	768.4	517.5	439.2	395.0	388.2	374.5	389.3	401.8
1149.7	52.5°	1135.0	959.0	736.6	474.4	407.4	364.3	362.1	355.2	368.9	380.2
1110.0	55°	1085.0	862.6	685.5	437.0	379.1	338.2	340.5	337.1	348.4	357.5
1086.2	57.5°	1039.6	778.6	620.8	407.4	348.4	315.5	322.3	317.8	323.5	329.1
1061.2	60°	985.1	693.5	543.6	374.5	312.1	292.8	300.8	288.3	287.1	289.4
1015.8	62.5°	904.6	578.8	463.1	333.7	280.3	267.8	271.3	247.4	229.3	229.3
948.8	65°	792.2	465.3	388.2	288.3	244.0	233.8	231.5	197.5	172.5	170.2
876.2	67.5°	661.7	382.5	322.3	242.9	203.2	196.3	198.6	173.6	148.7	146.4
803.5	70°	539.1	316.7	259.9	194.1	156.6	163.4	173.6	148.7	124.8	121.4
718.4	72.5°	438.1	252.0	203.2	148.7	115.8	135.1	147.5	121.4	98.7	96.5
612.9	75°	338.2	185.0	145.3	101.0	84.0	104.4	115.8	88.5	70.4	67.0
474.4	77.5°	225.9	114.6	81.7	63.6	49.9	71.5	77.2	46.5	40.9	39.7
345.0	80°	137.3	53.3	35.2	30.6	17.0	26.1	30.6	19.3	21.6	22.7
183.9	82.5°	69.2	14.8	5.7	1.1	0.0	0.0	9.1	4.5	9.1	11.3
49.9	85°	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7
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: P949713
 CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2281.3	0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2004.3	2.5°	2067.9	2115.6	2161.0	2233.6	2308.5	2382.3	2457.2	2529.8	2555.9	2575.2
1730.8	5°	1829.5	1919.2	2023.6	2167.8	2322.1	2481.0	2642.2	2789.7	2856.7	2902.1
1473.2	7.5°	1583.3	1700.2	1850.0	2066.8	2308.5	2561.6	2814.7	3047.4	3155.2	3242.6
1230.3	10°	1339.2	1466.4	1655.9	1903.3	2230.2	2593.4	2942.9	3263.0	3402.6	3512.7
1055.5	12.5°	1124.7	1243.9	1442.5	1716.1	2107.6	2568.4	3016.7	3401.5	3566.0	3689.7
930.7	15°	973.8	1057.8	1233.7	1528.8	1962.3	2487.8	3021.3	3467.3	3647.7	3777.1
878.5	17.5°	889.8	918.2	1032.8	1338.1	1801.2	2382.3	2979.3	3490.0	3682.9	3803.2
831.9	20°	844.4	848.9	880.7	1090.7	1594.6	2283.5	2939.5	3512.7	3715.8	3816.9
799.0	22.5°	808.1	808.1	816.0	892.1	1327.9	2165.5	2927.0	3552.4	3761.2	3823.7
761.6	25°	775.2	775.2	777.4	797.9	1052.1	1985.0	2919.1	3613.7	3823.7	3840.7
724.1	27.5°	741.1	742.3	742.3	753.6	847.8	1739.9	2885.1	3693.1	3898.6	3863.4
687.8	30°	707.1	709.3	709.3	717.3	750.2	1452.7	2818.1	3788.5	3996.2	3892.9
651.5	32.5°	673.0	675.3	675.3	682.1	705.9	1159.9	2734.1	3875.9	4094.9	3905.4
616.3	35°	637.8	641.2	639.0	648.1	673.0	922.7	2627.4	3963.3	4201.6	3945.1
582.2	37.5°	602.7	604.9	603.8	612.9	641.2	796.7	2503.7	4029.1	4346.9	4033.6
545.9	40°	567.5	566.3	566.3	576.6	607.2	760.4	2348.2	4133.5	4555.7	4189.1
509.6	42.5°	531.2	531.2	528.9	540.2	577.7	733.2	2199.5	4320.8	4859.9	4436.5
475.5	45°	498.2	497.1	492.6	502.8	549.3	685.5	2147.3	4670.3	5309.3	4837.2
441.5	47.5°	466.5	465.3	454.0	463.1	515.3	642.4	2342.5	5242.4	5932.4	5426.2
414.3	50°	438.1	439.2	417.7	425.6	481.2	609.5	2765.9	5984.6	6759.8	6219.6
391.6	52.5°	412.0	412.0	383.6	388.2	439.2	580.0	3168.8	6789.3	7851.6	7326.1
367.7	55°	385.9	383.6	351.8	354.1	397.2	538.0	3228.9	7574.7	9340.7	8991.1
341.6	57.5°	356.4	351.8	322.3	322.3	358.6	507.3	2798.8	8178.5	11188.4	11438.1
292.8	60°	320.1	316.7	297.4	291.7	328.0	534.6	1974.8	8248.9	12380.1	14692.0
232.7	62.5°	273.5	278.1	267.8	259.9	298.5	555.0	1170.1	7682.5	12091.8	15727.1
180.5	65°	215.6	233.8	231.5	225.9	328.0	467.6	691.2	6595.2	11207.7	14891.7
157.8	67.5°	183.9	196.3	192.9	192.9	343.9	355.2	434.7	5152.7	9991.0	13900.9
131.7	70°	156.6	169.1	156.6	156.6	259.9	215.6	300.8	3597.8	8677.9	12804.6
105.6	72.5°	129.4	141.9	128.2	119.2	207.7	161.2	220.2	2248.3	7431.7	11662.8
74.9	75°	98.7	113.5	103.3	91.9	137.3	120.3	166.8	1306.3	6157.1	9978.5
45.4	77.5°	62.4	81.7	77.2	64.7	101.0	87.4	120.3	777.4	4750.9	7797.1
27.2	80°	38.6	42.0	43.1	40.9	57.9	59.0	81.7	442.6	3251.6	5434.2
17.0	82.5°	25.0	25.0	19.3	21.6	28.4	34.0	46.5	166.8	1911.3	3308.4
10.2	85°	18.2	15.9	10.2	10.2	13.6	17.0	18.2	51.1	775.2	1306.3
4.5	87.5°	9.1	7.9	3.4	4.5	6.8	5.7	4.5	2.3	195.2	417.7
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: P949713
 CATALOG NUMBER: GALN-SB4B-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2281.3	0°	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3	2281.3
2618.3	2.5°	2641.0	2676.2	2678.5	2678.5	2647.9	2646.7	2584.3	2577.5
3004.2	5°	3109.8	3132.5	3138.2	3126.8	3065.5	3020.1	2898.7	2872.6
3398.1	7.5°	3538.8	3584.2	3584.2	3557.0	3457.1	3364.0	3188.1	3122.3
3723.8	10°	3881.5	3933.8	3922.4	3866.8	3740.8	3612.6	3399.2	3312.9
3921.3	12.5°	4048.4	4101.7	4072.2	4008.7	3886.1	3751.0	3526.3	3428.7
3978.0	15°	4045.0	4030.2	3999.6	3991.6	3932.6	3830.5	3620.5	3513.8
3942.8	17.5°	3900.8	3776.0	3752.2	3831.6	3906.5	3881.5	3702.2	3602.3
3858.8	20°	3672.7	3454.8	3433.2	3585.3	3798.7	3907.7	3778.3	3686.3
3737.4	22.5°	3432.1	3197.2	3147.2	3315.2	3636.4	3915.6	3874.7	3782.8
3603.5	25°	3204.0	2967.9	2918.0	3074.6	3455.9	3902.0	3979.2	3900.8
3475.2	27.5°	3013.3	2785.2	2738.6	2895.3	3282.3	3863.4	4083.6	4028.0
3348.1	30°	2865.8	2654.7	2620.6	2771.6	3132.5	3815.7	4216.4	4185.7
3230.1	32.5°	2779.5	2625.2	2637.6	2761.3	3051.9	3763.5	4343.5	4358.2
3172.2	35°	2864.6	2871.4	2980.4	3031.5	3126.8	3755.6	4516.0	4573.9
3241.4	37.5°	3288.0	3524.0	3749.9	3707.9	3493.4	3847.5	4773.6	4881.4
3543.3	40°	4008.7	4493.3	4859.9	4699.9	4159.6	4129.0	5144.8	5305.9
4079.0	42.5°	4889.4	5711.1	6314.9	5885.9	5018.8	4621.5	5674.8	5880.2
4727.1	45°	5818.9	7212.6	8163.7	7271.7	5934.7	5311.6	6477.2	6638.4
5334.3	47.5°	6798.4	9037.6	10267.9	8808.4	6783.6	6097.0	7571.3	7608.7
5909.7	50°	7869.8	11038.6	12413.0	10344.0	7603.1	6997.0	8908.3	8865.1
6580.5	52.5°	8890.1	13096.3	14512.7	11886.4	8322.6	8113.8	10459.7	10371.2
7497.5	55°	9863.9	15152.8	16624.8	13368.6	9001.3	9589.2	12302.9	11767.2
8819.7	57.5°	10993.2	17001.6	18801.7	14857.7	9950.2	11505.0	14364.0	12577.6
11351.8	60°	12662.7	19102.4	21263.4	16898.4	11754.7	13518.5	15102.9	12423.2
14384.4	62.5°	14794.1	21034.1	23053.2	18898.1	13567.3	13897.5	14014.4	11233.8
13765.9	65°	15208.4	21523.3	23154.2	19432.7	13333.5	11788.8	11441.5	9029.7
12296.1	67.5°	14109.8	20639.2	21742.3	18437.4	11794.5	9110.3	8585.9	6551.0
11331.4	70°	12877.2	18953.8	19281.8	16745.1	10373.5	6700.8	5798.5	4203.9
10670.9	72.5°	11614.0	16705.4	16026.7	14542.2	9117.1	4879.2	4182.3	2988.3
9730.0	75°	10113.6	13748.8	12624.1	12082.7	7548.6	3829.3	3025.8	2062.2
8369.2	77.5°	8099.0	9677.8	9377.0	9365.7	5672.5	2797.7	2019.1	1292.7
6538.5	80°	5713.4	6280.8	6127.6	7053.7	3805.5	2029.3	1215.5	719.6
4551.2	82.5°	2765.9	3473.0	3564.9	4200.5	1851.1	1194.0	280.3	156.6
1779.6	85°	1082.7	1675.2	1413.0	1594.6	519.8	332.5	6.8	0.0
292.8	87.5°	121.4	194.1	178.2	140.7	63.6	13.6	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)