

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: P947571

Luminaire Tested: **GALN-SB2D-850-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947571
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-SB2D-850-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA 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: 14856 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

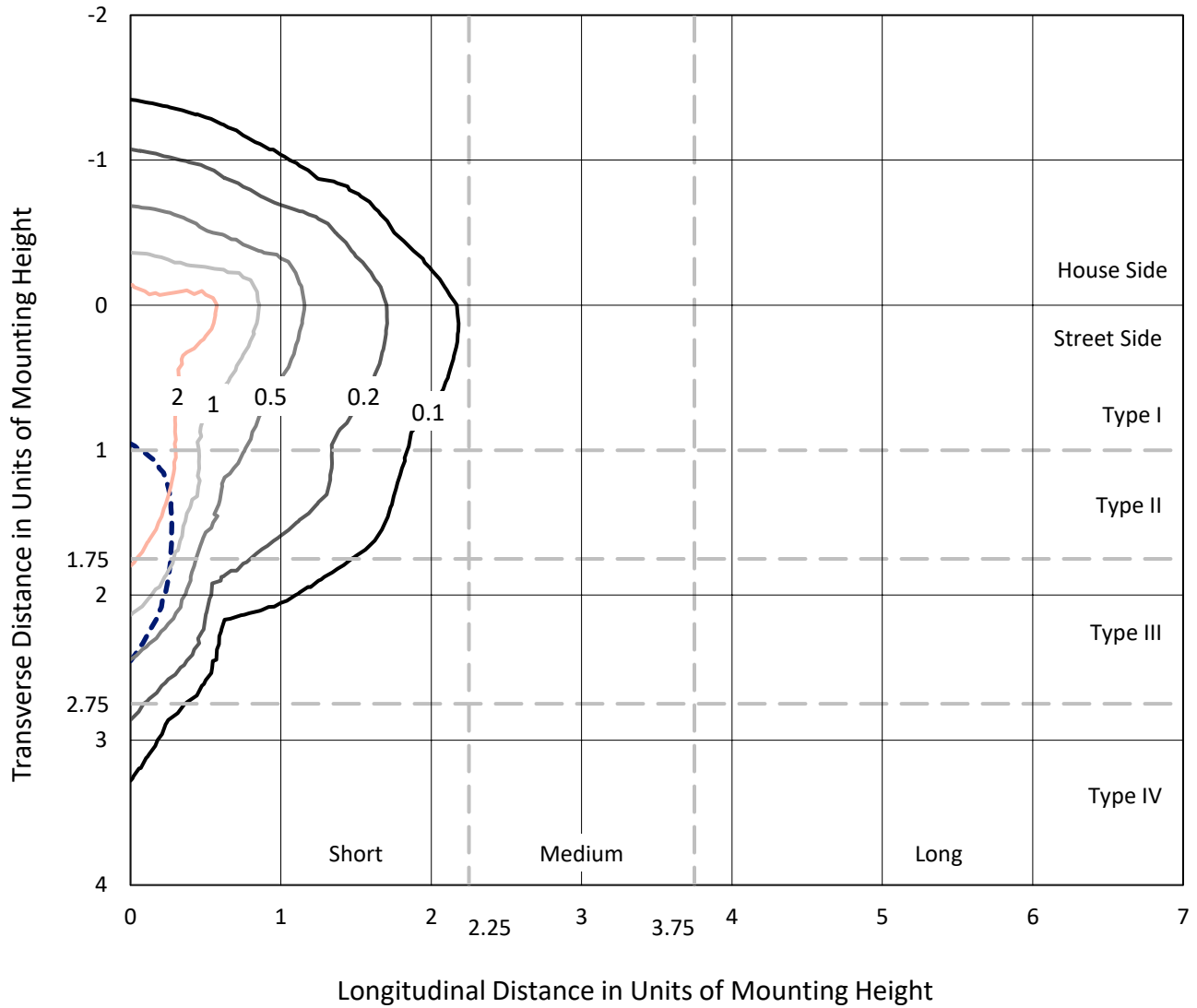
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947571
 CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

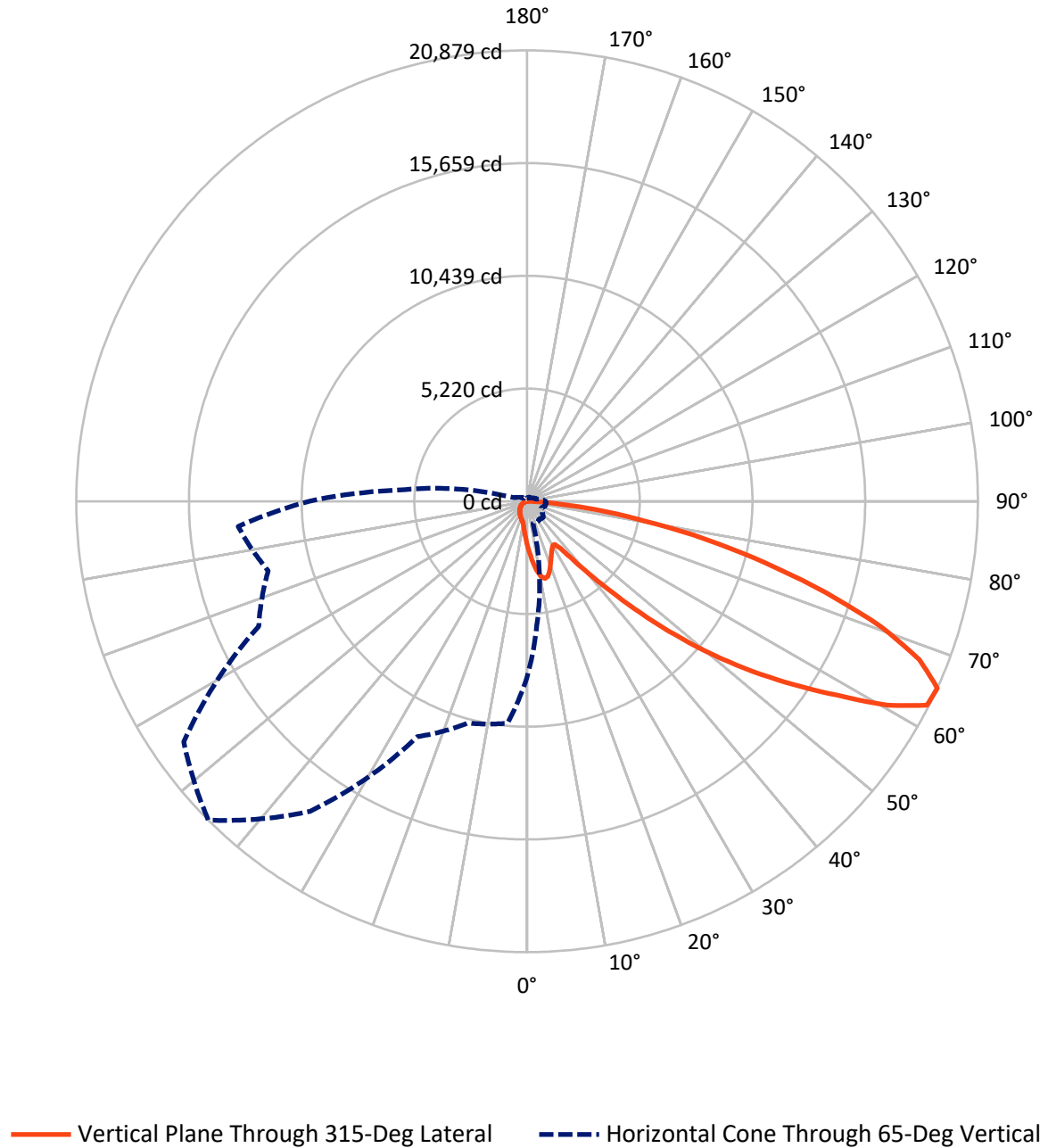
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P947571
CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P947571
 CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2080.5	0.0	2080.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12775.5	0.0	12775.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	14856.0	0.0	14856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	1.4
10°-20°	607.1	4.1
20°-30°	894.4	6.0
30°-40°	1149.1	7.7
40°-50°	1858.4	12.5
50°-60°	3258.8	21.9
60°-70°	4077.7	27.4
70°-80°	2382.8	16.0
80°-90°	425.1	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°	14856.0	100.0
0°-180°	14856.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947571

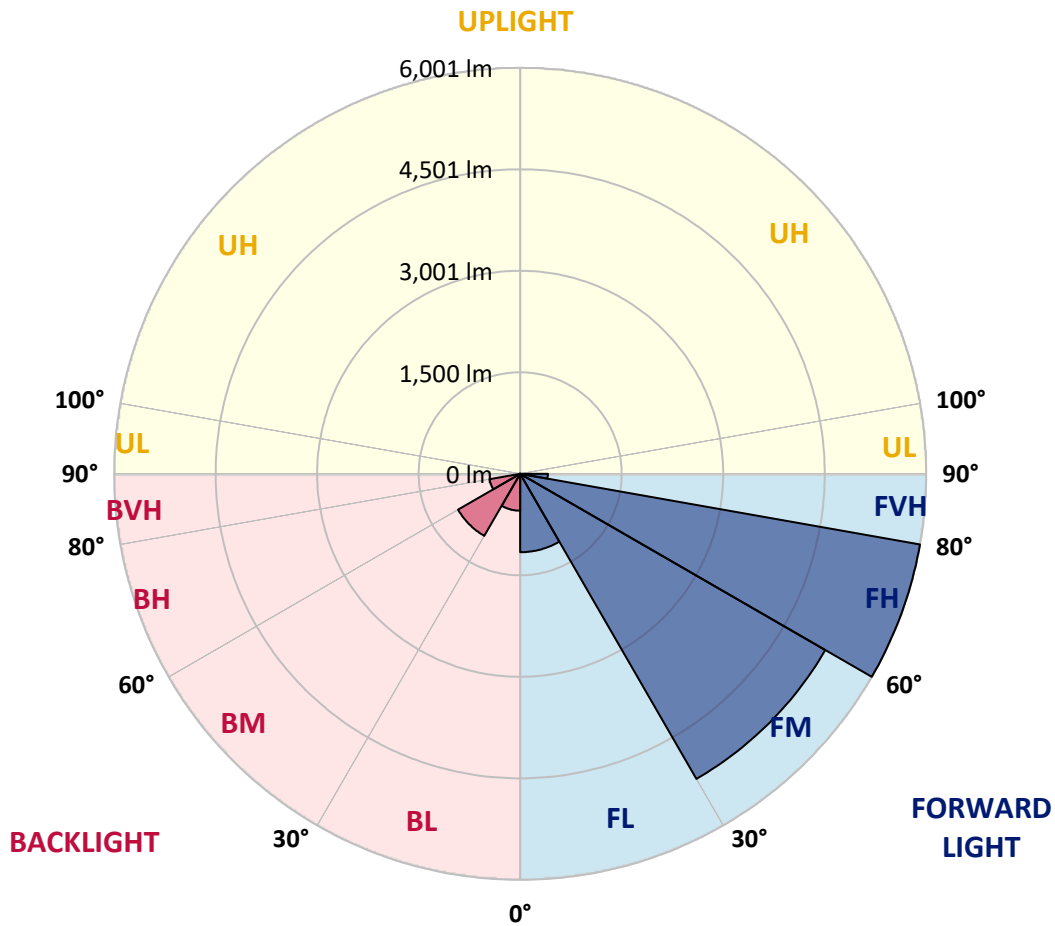
CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.7	7.8			
FM (30°-60°)	5206.9	35.0			
FH (60°-80°)	6001.2	40.4			G3/7500
FVH (80°-90°)	408.8	2.8			G3/500
BL (0°-30°)	545.3	3.7	B2/1000		
BM (30°-60°)	1059.4	7.1	B2/2500		
BH (60°-80°)	459.4	3.1	B1/500		G1/500
BVH (80°-90°)	16.3	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: P947571

CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
2.5°	2324.2	2284.3	2260.7	2202.4	2144.1	2097.0	2033.5	1991.6	1941.4	1893.3
5°	2590.3	2525.8	2448.0	2341.6	2244.4	2145.1	2048.9	1953.7	1853.4	1761.3
7.5°	2815.4	2722.3	2585.2	2443.9	2320.1	2200.4	2087.8	1961.9	1840.1	1695.8
10°	2987.4	2868.7	2688.5	2503.3	2361.0	2240.3	2130.8	2024.3	1901.5	1727.5
12.5°	3091.8	2964.9	2751.0	2534.0	2371.3	2236.2	2151.2	2104.2	2056.1	1883.1
15°	3168.5	3031.4	2795.0	2555.5	2347.7	2181.9	2119.5	2166.6	2221.9	2111.3
17.5°	3248.3	3104.0	2852.3	2564.7	2284.3	2076.5	2049.9	2171.7	2299.6	2294.5
20°	3324.1	3180.8	2902.4	2558.6	2181.9	1948.6	1972.1	2127.7	2276.1	2338.5
22.5°	3411.1	3259.6	2950.5	2535.0	2048.9	1828.9	1902.5	2058.1	2188.1	2261.8
25°	3517.5	3358.9	3018.1	2500.2	1905.6	1729.6	1831.9	1977.3	2082.7	2133.8
27.5°	3632.1	3477.6	3108.1	2481.8	1790.0	1659.0	1752.1	1881.1	1975.2	2011.0
30°	3774.4	3615.8	3214.6	2461.3	1714.2	1618.0	1669.2	1769.5	1861.6	1897.4
32.5°	3929.9	3769.3	3316.9	2412.2	1668.2	1587.3	1588.4	1651.8	1735.7	1778.7
35°	4124.4	3953.5	3426.4	2304.7	1631.3	1551.5	1509.5	1540.3	1609.8	1661.0
37.5°	4401.7	4195.0	3560.5	2151.2	1577.1	1496.2	1426.7	1433.8	1487.0	1543.3
40°	4784.5	4519.4	3718.1	1991.6	1499.3	1418.5	1335.6	1332.5	1371.4	1426.7
42.5°	5302.4	4948.3	3907.4	1839.1	1424.6	1324.3	1239.4	1234.2	1265.0	1313.1
45°	5986.0	5496.8	4139.7	1708.1	1366.3	1232.2	1148.3	1146.2	1171.8	1213.8
47.5°	6861.0	6259.3	4372.1	1619.1	1335.6	1159.5	1073.6	1077.7	1100.2	1138.0
50°	7994.0	7253.0	4442.7	1574.0	1335.6	1120.6	1007.0	1027.5	1045.9	1074.6
52.5°	9352.0	8206.8	4209.3	1533.1	1343.8	1125.8	950.8	994.8	1008.1	1032.6
55°	10610.9	8674.5	3618.8	1476.8	1345.8	1157.5	902.7	968.2	992.7	1001.9
57.5°	11341.6	8513.9	2926.0	1381.6	1337.6	1179.0	872.0	935.4	982.5	988.6
60°	11202.4	7950.0	2154.3	1309.0	1277.2	1170.8	862.7	885.3	960.0	969.2
62.5°	10129.8	7004.3	1495.2	1252.7	1144.2	1135.0	859.7	806.5	910.8	933.4
65°	8142.4	5514.2	1056.2	1078.7	1003.0	1057.2	843.3	724.6	851.5	882.2
67.5°	5907.2	3731.4	762.5	874.0	908.8	931.3	806.5	665.2	783.9	824.9
70°	3790.8	2015.1	535.3	577.2	765.5	791.1	743.0	612.0	715.4	762.5
72.5°	2694.7	1190.2	384.8	404.3	615.1	659.1	654.0	552.6	635.5	692.9
75°	1859.6	656.0	259.9	288.6	446.2	535.3	504.5	474.9	538.3	596.7
77.5°	1165.7	293.7	155.6	200.6	292.7	420.6	345.9	367.4	419.6	473.8
80°	648.9	113.6	87.0	133.0	159.7	306.0	191.4	236.4	309.1	348.0
82.5°	141.2	14.3	38.9	57.3	62.4	178.1	101.3	137.1	194.5	191.4
85°	0.0	0.0	7.2	8.2	4.1	76.8	36.8	45.0	63.5	59.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947571
 CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2057.1	0°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
1850.3	2.5°	1842.2	1792.0	1755.2	1736.7	1721.4	1735.7	1743.9	1743.9	1778.7	1799.2
1705.0	5°	1669.2	1579.1	1510.6	1464.5	1436.9	1446.1	1456.3	1467.6	1511.6	1541.3
1619.1	7.5°	1549.5	1411.3	1306.9	1242.4	1208.7	1213.8	1220.9	1230.2	1273.1	1302.8
1631.3	10°	1526.9	1328.4	1181.0	1096.1	1055.1	1048.0	1043.9	1040.8	1066.4	1088.9
1770.5	12.5°	1619.1	1332.5	1126.8	1023.4	973.3	951.8	927.2	907.8	911.9	926.2
1981.3	15°	1783.8	1384.7	1109.4	985.6	923.1	887.3	858.7	835.1	830.0	835.1
2165.6	17.5°	1972.1	1455.3	1107.3	952.8	875.0	838.2	814.6	793.2	786.0	787.0
2268.9	20°	2097.0	1511.6	1101.2	916.0	829.0	796.2	775.8	754.3	747.1	749.1
2240.3	22.5°	2109.3	1541.3	1092.0	875.0	782.9	755.3	734.8	715.4	714.3	714.3
2132.8	25°	2042.8	1541.3	1072.5	838.2	738.9	714.3	695.9	672.4	676.5	678.5
2011.0	27.5°	1939.4	1504.4	1035.7	808.5	701.0	675.5	657.0	635.5	640.7	643.7
1897.4	30°	1837.0	1457.4	991.7	774.7	665.2	635.5	622.2	603.8	605.9	610.0
1784.9	32.5°	1741.9	1407.2	939.5	747.1	629.4	599.7	589.5	569.0	572.1	576.2
1674.3	35°	1647.7	1351.9	878.1	714.3	596.7	567.0	558.8	535.3	537.3	543.4
1563.8	37.5°	1546.4	1293.6	827.9	681.6	564.9	534.2	526.0	501.5	503.5	510.7
1449.2	40°	1440.0	1236.3	778.8	646.8	531.2	500.5	493.3	466.7	468.7	476.9
1336.6	42.5°	1332.5	1173.9	741.0	601.8	496.4	463.6	456.4	431.9	435.0	444.2
1238.3	45°	1233.2	1099.2	716.4	551.6	463.6	426.8	419.6	397.1	403.2	413.5
1155.4	47.5°	1148.3	1022.4	706.2	509.7	428.8	388.9	382.8	364.3	374.6	385.8
1084.8	50°	1075.6	948.7	692.9	466.7	396.1	356.2	350.0	337.7	351.0	362.3
1036.7	52.5°	1023.4	864.8	664.2	427.8	367.4	328.5	326.5	320.3	332.6	342.8
1000.9	55°	978.4	777.8	618.1	394.0	341.8	305.0	307.0	304.0	314.2	322.4
979.4	57.5°	937.5	702.1	559.8	367.4	314.2	284.5	290.7	286.6	291.7	296.8
956.9	60°	888.3	625.3	490.2	337.7	281.4	264.0	271.2	259.9	258.9	261.0
916.0	62.5°	815.7	521.9	417.6	300.9	252.8	241.5	244.6	223.1	206.7	206.7
855.6	65°	714.3	419.6	350.0	259.9	220.0	210.8	208.8	178.1	155.6	153.5
790.1	67.5°	596.7	344.9	290.7	219.0	183.2	177.1	179.1	156.6	134.1	132.0
724.6	70°	486.1	285.5	234.4	175.0	141.2	147.4	156.6	134.1	112.6	109.5
647.8	72.5°	395.0	227.2	183.2	134.1	104.4	121.8	133.0	109.5	89.0	87.0
552.6	75°	305.0	166.8	131.0	91.1	75.7	94.2	104.4	79.8	63.5	60.4
427.8	77.5°	203.7	103.4	73.7	57.3	45.0	64.5	69.6	42.0	36.8	35.8
311.1	80°	123.8	48.1	31.7	27.6	15.4	23.5	27.6	17.4	19.4	20.5
165.8	82.5°	62.4	13.3	5.1	1.0	0.0	0.0	8.2	4.1	8.2	10.2
45.0	85°	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.1
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: P947571
 CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2057.1	0°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
1807.4	2.5°	1864.7	1907.7	1948.6	2014.1	2081.6	2148.2	2215.7	2281.2	2304.7	2322.1
1560.7	5°	1649.8	1730.6	1824.8	1954.7	2093.9	2237.2	2382.5	2515.6	2576.0	2616.9
1328.4	7.5°	1427.7	1533.1	1668.2	1863.7	2081.6	2309.9	2538.1	2747.9	2845.1	2923.9
1109.4	10°	1207.6	1322.3	1493.2	1716.3	2011.0	2338.5	2653.7	2942.3	3068.2	3167.5
951.8	12.5°	1014.2	1121.7	1300.8	1547.4	1900.5	2316.0	2720.3	3067.2	3215.6	3327.1
839.2	15°	878.1	953.8	1112.5	1378.6	1769.5	2243.3	2724.4	3126.6	3289.3	3406.0
792.1	17.5°	802.4	827.9	931.3	1206.6	1624.2	2148.2	2686.5	3147.0	3321.0	3429.5
750.2	20°	761.4	765.5	794.2	983.5	1437.9	2059.1	2650.7	3167.5	3350.7	3441.8
720.5	22.5°	728.7	728.7	735.8	804.4	1197.4	1952.7	2639.4	3203.3	3391.6	3447.9
686.7	25°	699.0	699.0	701.0	719.5	948.7	1790.0	2632.2	3258.6	3447.9	3463.3
652.9	27.5°	668.3	669.3	669.3	679.6	764.5	1568.9	2601.5	3330.2	3515.5	3483.7
620.2	30°	637.6	639.6	639.6	646.8	676.5	1310.0	2541.2	3416.2	3603.5	3510.3
587.4	32.5°	606.9	608.9	608.9	615.1	636.6	1045.9	2465.4	3495.0	3692.5	3521.6
555.7	35°	575.2	578.2	576.2	584.4	606.9	832.0	2369.2	3573.8	3788.7	3557.4
525.0	37.5°	543.4	545.5	544.5	552.6	578.2	718.4	2257.7	3633.2	3919.7	3637.2
492.3	40°	511.7	510.7	510.7	519.9	547.5	685.7	2117.5	3727.3	4108.0	3777.5
459.5	42.5°	479.0	479.0	476.9	487.1	520.9	661.1	1983.4	3896.2	4382.3	4000.6
428.8	45°	449.3	448.3	444.2	453.4	495.3	618.1	1936.3	4211.4	4787.6	4361.8
398.1	47.5°	420.6	419.6	409.4	417.6	464.6	579.3	2112.3	4727.2	5349.4	4893.0
373.5	50°	395.0	396.1	376.6	383.8	433.9	549.6	2494.1	5396.5	6095.5	5608.4
353.1	52.5°	371.5	371.5	345.9	350.0	396.1	523.0	2857.4	6122.1	7080.0	6606.2
331.6	55°	348.0	345.9	317.3	319.3	358.2	485.1	2911.6	6830.3	8422.8	8107.6
308.1	57.5°	321.4	317.3	290.7	290.7	323.4	457.5	2523.8	7374.8	10088.9	10314.1
264.0	60°	288.6	285.5	268.1	263.0	295.8	482.0	1780.8	7438.2	11163.5	13248.2
209.8	62.5°	246.6	250.7	241.5	234.4	269.2	500.5	1055.1	6927.6	10903.6	14181.6
162.7	65°	194.5	210.8	208.8	203.7	295.8	421.7	623.3	5947.1	10106.3	13428.3
142.3	67.5°	165.8	177.1	174.0	174.0	310.1	320.3	392.0	4646.3	9009.2	12534.9
118.7	70°	141.2	152.5	141.2	141.2	234.4	194.5	271.2	3244.3	7825.1	11546.3
95.2	72.5°	116.7	127.9	115.6	107.5	187.3	145.3	198.5	2027.4	6701.4	10516.7
67.5	75°	89.0	102.3	93.1	82.9	123.8	108.5	150.4	1178.0	5552.1	8997.9
40.9	77.5°	56.3	73.7	69.6	58.3	91.1	78.8	108.5	701.0	4284.0	7030.9
24.6	80°	34.8	37.9	38.9	36.8	52.2	53.2	73.7	399.1	2932.1	4900.2
15.4	82.5°	22.5	22.5	17.4	19.4	25.6	30.7	42.0	150.4	1723.4	2983.3
9.2	85°	16.4	14.3	9.2	9.2	12.3	15.4	16.4	46.1	699.0	1178.0
4.1	87.5°	8.2	7.2	3.1	4.1	6.1	5.1	4.1	2.0	176.0	376.6
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: P947571
 CATALOG NUMBER: GALN-SB2D-850-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2057.1	0°	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1	2057.1
2361.0	2.5°	2381.5	2413.2	2415.3	2415.3	2387.6	2386.6	2330.3	2324.2
2709.0	5°	2804.2	2824.6	2829.8	2819.5	2764.3	2723.3	2613.8	2590.3
3064.1	7.5°	3191.0	3232.0	3232.0	3207.4	3117.3	3033.4	2874.8	2815.4
3357.9	10°	3500.1	3547.2	3537.0	3486.8	3373.2	3257.6	3065.2	2987.4
3535.9	12.5°	3650.6	3698.7	3672.0	3614.7	3504.2	3382.4	3179.8	3091.8
3587.1	15°	3647.5	3634.2	3606.5	3599.4	3546.2	3454.1	3264.7	3168.5
3555.4	17.5°	3517.5	3404.9	3383.4	3455.1	3522.6	3500.1	3338.4	3248.3
3479.6	20°	3311.8	3115.3	3095.9	3233.0	3425.4	3523.6	3407.0	3324.1
3370.1	22.5°	3094.8	2883.0	2838.0	2989.4	3279.0	3530.8	3494.0	3411.1
3249.4	25°	2889.1	2676.3	2631.2	2772.5	3116.3	3518.5	3588.1	3517.5
3133.7	27.5°	2717.2	2511.5	2469.5	2610.8	2959.7	3483.7	3682.3	3632.1
3019.1	30°	2584.1	2393.8	2363.1	2499.2	2824.6	3440.7	3802.0	3774.4
2912.7	32.5°	2506.4	2367.2	2378.4	2490.0	2752.0	3393.7	3916.6	3929.9
2860.5	35°	2583.1	2589.3	2687.5	2733.6	2819.5	3386.5	4072.2	4124.4
2922.9	37.5°	2964.9	3177.7	3381.4	3343.5	3150.1	3469.4	4304.5	4401.7
3195.1	40°	3614.7	4051.7	4382.3	4238.0	3750.8	3723.2	4639.2	4784.5
3678.2	42.5°	4408.9	5149.9	5694.3	5307.5	4525.6	4167.4	5117.1	5302.4
4262.6	45°	5247.1	6503.9	7361.5	6557.1	5351.5	4789.6	5840.7	5986.0
4810.1	47.5°	6130.3	8149.5	9258.9	7942.8	6117.0	5497.8	6827.3	6861.0
5329.0	50°	7096.4	9953.8	11193.2	9327.5	6855.9	6309.4	8032.8	7994.0
5933.8	52.5°	8016.5	11809.3	13086.5	10718.3	7504.8	7316.5	9431.9	9352.0
6760.7	55°	8894.6	13663.7	14991.1	12054.9	8116.8	8646.9	11093.9	10610.9
7953.0	57.5°	9912.9	15330.9	16954.0	13397.6	8972.4	10374.4	12952.4	11341.6
10236.3	60°	11418.3	17225.2	19173.8	15237.7	10599.6	12190.0	13618.7	11202.4
12970.9	62.5°	13340.3	18967.1	20787.8	17041.0	12234.0	12531.8	12637.2	10129.8
12413.1	65°	13713.9	19408.2	20878.9	17523.1	12023.2	10630.3	10317.1	8142.4
11087.8	67.5°	12723.2	18611.0	19605.7	16625.5	10635.4	8215.0	7742.2	5907.2
10217.9	70°	11611.8	17091.2	17386.9	15099.6	9354.1	6042.3	5228.7	3790.8
9622.2	72.5°	10472.7	15063.8	14451.8	13113.1	8221.2	4399.7	3771.3	2694.7
8773.8	75°	9119.7	12397.7	11383.5	10895.4	6806.8	3453.0	2728.4	1859.6
7546.7	77.5°	7303.1	8726.7	8455.5	8445.3	5115.1	2522.7	1820.7	1165.7
5895.9	80°	5151.9	5663.6	5525.5	6360.6	3431.5	1829.9	1096.1	648.9
4103.9	82.5°	2494.1	3131.7	3214.6	3787.7	1669.2	1076.6	252.8	141.2
1604.7	85°	976.3	1510.6	1274.2	1437.9	468.7	299.9	6.1	0.0
264.0	87.5°	109.5	175.0	160.7	126.9	57.3	12.3	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)