

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: P949795

Luminaire Tested: **GALN-SB4B-940-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949795  
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-940-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

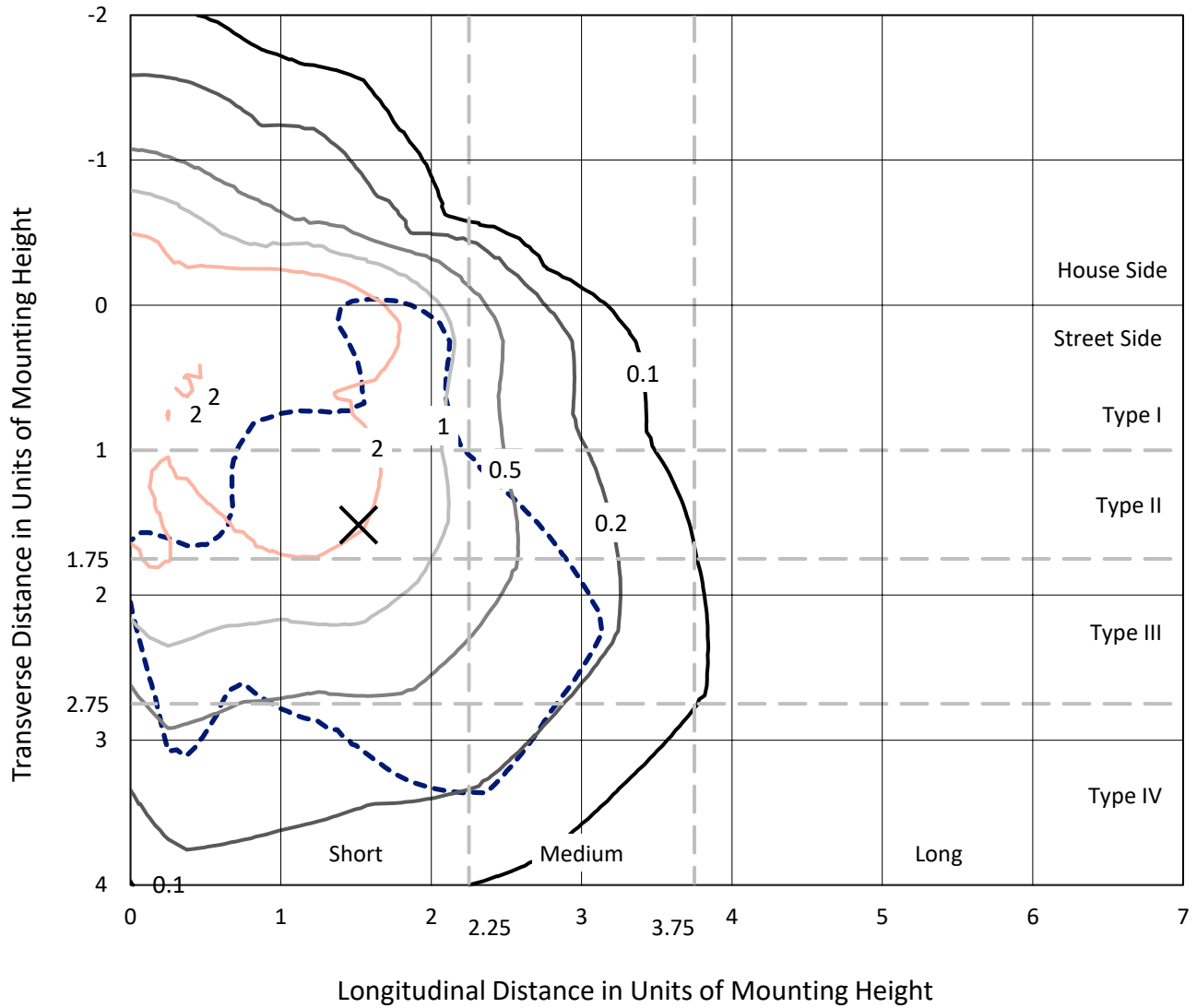
Lumens per Lamp: N/A  
Luminaire Lumens: 12481 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P949795  
 CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

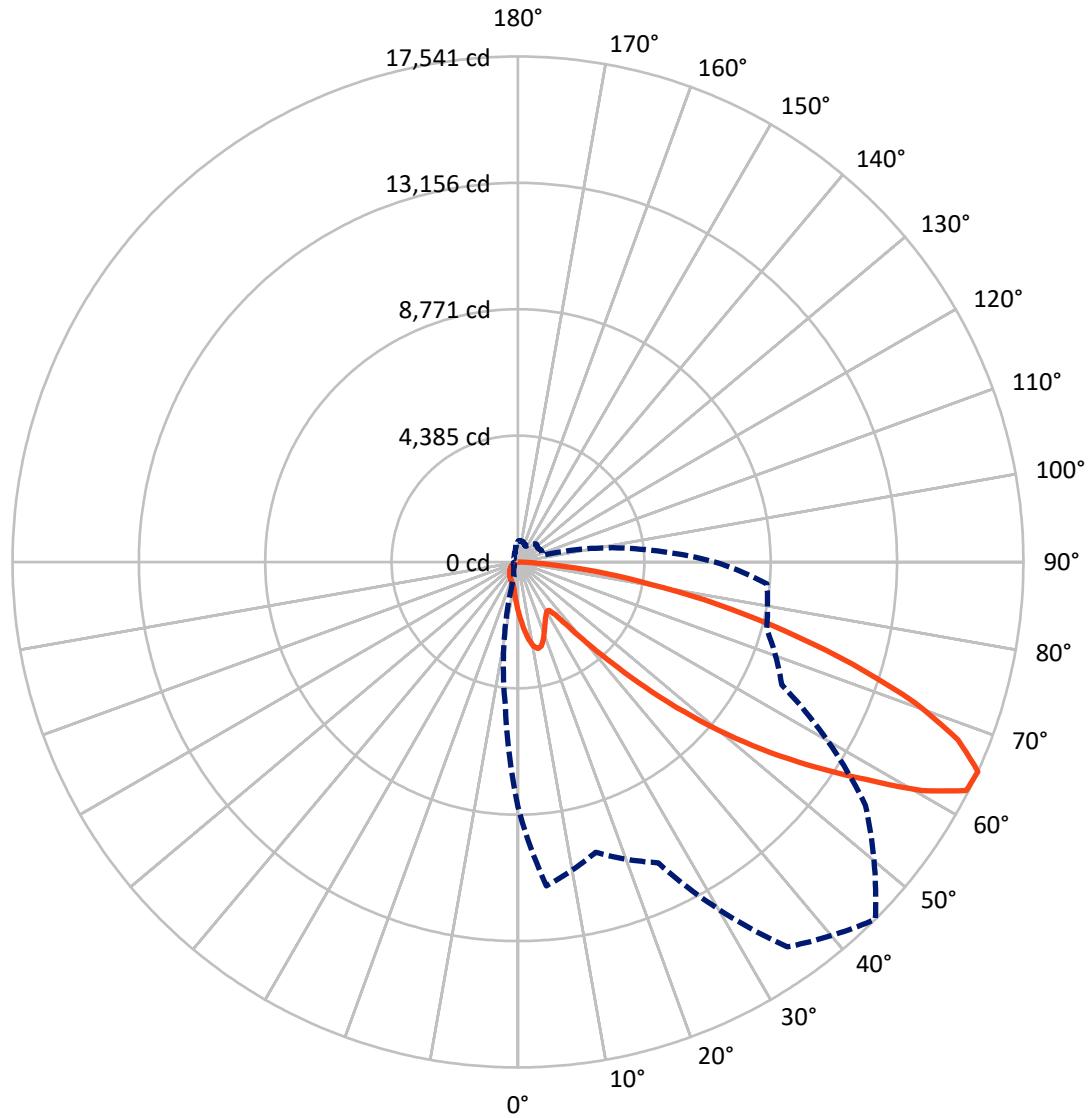
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P949795  
CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P949795  
 CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2480.8	0.0	2480.8
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	10000.2	0.0	10000.2
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	12481.0	0.0	12481.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.1	1.4
10°-20°	510.1	4.1
20°-30°	751.4	6.0
30°-40°	965.4	7.7
40°-50°	1561.3	12.5
50°-60°	2737.9	21.9
60°-70°	3425.8	27.4
70°-80°	2001.9	16.0
80°-90°	357.2	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°	12481.0	100.0
0°-180°	12481.0	100.0



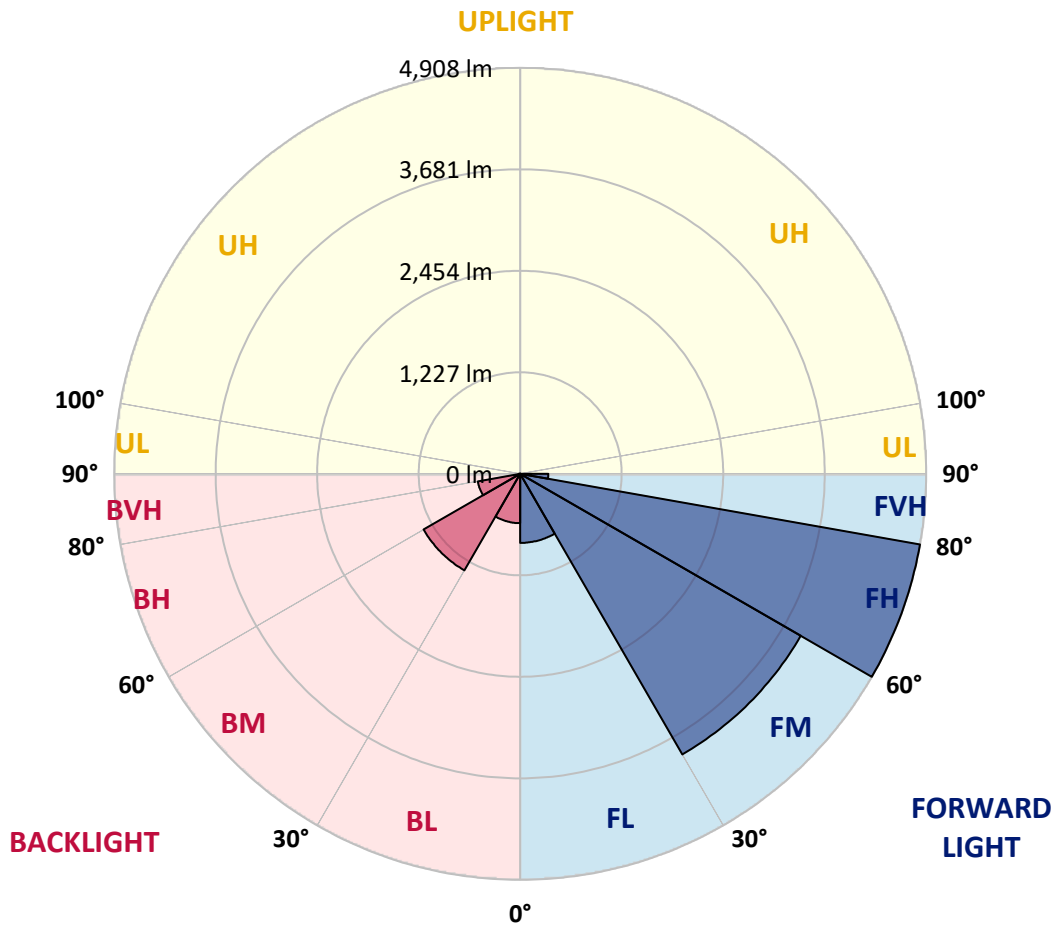
REPORT NUMBER: P949795  
 CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.1	6.7			
FM (30°-60°)	3916.7	31.4			
FH (60°-80°)	4907.9	39.3			G2/5000
FVH (80°-90°)	340.4	2.7			G3/500
BL (0°-30°)	596.5	4.8	B2/1000		
BM (30°-60°)	1347.8	10.8	B2/2500		
BH (60°-80°)	519.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	16.7	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: P949795  
 CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
2.5°	1936.3	1950.9	1983.6	2000.8	2027.4	2029.2	2029.2	2005.9	2005.1	1957.8
5°	2164.1	2198.5	2275.9	2355.9	2373.1	2377.4	2368.8	2322.3	2288.0	2196.0
7.5°	2390.3	2456.5	2574.3	2680.9	2715.3	2715.3	2694.6	2619.0	2548.5	2415.2
10°	2577.7	2661.1	2821.0	2940.6	2980.1	2971.5	2929.4	2833.9	2736.8	2575.1
12.5°	2701.5	2795.2	2970.6	3066.9	3107.4	3085.0	3036.9	2944.0	2841.7	2671.4
15°	2763.4	2861.4	3013.6	3064.4	3053.2	3030.0	3024.0	2979.2	2901.9	2742.8
17.5°	2790.1	2881.2	2987.0	2955.2	2860.6	2842.5	2902.7	2959.5	2940.6	2804.7
20°	2815.0	2891.5	2923.4	2782.3	2617.3	2600.9	2716.1	2877.8	2960.3	2862.3
22.5°	2849.4	2896.7	2831.4	2600.1	2422.1	2384.3	2511.5	2754.8	2966.3	2935.4
25°	2896.7	2909.6	2729.9	2427.2	2248.4	2210.6	2329.2	2618.1	2956.0	3014.5
27.5°	2953.4	2926.8	2632.7	2282.8	2110.0	2074.7	2193.4	2486.6	2926.8	3093.6
30°	3027.4	2949.2	2536.4	2171.0	2011.1	1985.3	2099.7	2373.1	2890.7	3194.2
32.5°	3102.2	2958.6	2447.0	2105.7	1988.7	1998.2	2091.9	2312.0	2851.1	3290.5
35°	3183.0	2988.7	2403.2	2170.2	2175.3	2257.9	2296.6	2368.8	2845.1	3421.2
37.5°	3293.1	3055.8	2455.6	2490.9	2669.7	2840.8	2809.0	2646.5	2914.8	3616.4
40°	3451.3	3173.6	2684.3	3036.9	3404.0	3681.7	3560.5	3151.2	3128.0	3897.5
42.5°	3681.7	3361.0	3090.2	3704.1	4326.6	4784.0	4459.0	3802.1	3501.1	4299.1
45°	4022.2	3664.5	3581.1	4408.2	5464.1	6184.6	5508.8	4495.9	4023.9	4906.9
47.5°	4494.2	4110.8	4041.1	5150.3	6846.7	7778.7	6673.0	5139.1	4618.9	5735.8
50°	5121.0	4711.8	4477.0	5961.9	8362.5	9403.7	7836.3	5759.9	5300.7	6748.7
52.5°	5948.2	5550.1	4985.2	6734.9	9921.4	10994.4	9004.8	6305.0	6146.8	7924.0
55°	7076.2	6811.4	5679.9	7472.6	11479.3	12594.5	10127.7	6819.2	7264.5	9320.3
57.5°	8476.0	8665.2	6681.6	8328.1	12880.0	14243.6	11255.8	7538.0	8715.9	10881.8
60°	9378.8	11130.2	8599.8	9592.9	14471.5	16108.6	12801.7	8905.1	10241.2	11441.5
62.5°	9160.4	11914.4	10897.2	11207.6	15934.9	17464.5	14316.7	10278.2	10528.4	10616.9
65°	8490.6	11281.6	10428.6	11521.5	16305.4	17541.0	14721.7	10101.1	8930.9	8667.7
67.5°	7568.9	10531.0	9315.2	10689.2	15635.7	16471.4	13967.6	8935.2	6901.7	6504.5
70°	6574.1	9700.4	8584.3	9755.4	14358.8	14607.3	12685.6	7858.7	5076.3	4392.8
72.5°	5630.0	8835.4	8083.9	8798.4	12655.6	12141.4	11016.8	6906.9	3696.3	3168.4
75°	4664.5	7559.5	7371.2	7661.8	10415.7	9563.7	9153.5	5718.6	2901.0	2292.3
77.5°	3599.2	5906.9	6340.2	6135.6	7331.6	7103.8	7095.2	4297.3	2119.4	1529.6
80°	2463.4	4116.8	4953.4	4328.3	4758.2	4642.1	5343.7	2882.9	1537.3	920.9
82.5°	1447.9	2506.3	3447.8	2095.4	2631.0	2700.7	3182.2	1402.4	904.5	212.4
85°	587.3	989.6	1348.2	820.3	1269.1	1070.5	1208.0	393.8	251.9	5.2
87.5°	147.9	316.4	221.8	92.0	147.0	135.0	106.6	48.1	10.3	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: P949795  
 CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1728.2	0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
1952.6	2.5°	1919.1	1899.3	1850.3	1801.3	1761.8	1708.4	1673.2	1631.1	1590.6	1554.5
2176.2	5°	2122.0	2056.7	1967.2	1885.6	1802.2	1721.3	1641.4	1557.1	1479.7	1432.4
2365.3	7.5°	2287.1	2171.9	2053.2	1949.2	1848.6	1754.0	1648.3	1545.9	1424.7	1360.2
2509.8	10°	2410.0	2258.7	2103.1	1983.6	1882.1	1790.1	1700.7	1597.5	1451.4	1370.5
2597.5	12.5°	2490.9	2311.2	2128.9	1992.2	1878.7	1807.3	1767.8	1727.4	1582.1	1487.5
2662.0	15°	2546.8	2348.1	2146.9	1972.4	1833.1	1780.7	1820.2	1866.6	1773.8	1664.6
2729.0	17.5°	2607.8	2396.3	2154.7	1919.1	1744.6	1722.2	1824.5	1932.0	1927.7	1819.4
2792.7	20°	2672.3	2438.4	2149.5	1833.1	1637.1	1656.9	1787.5	1912.2	1964.7	1906.2
2865.7	22.5°	2738.5	2478.8	2129.8	1721.3	1536.5	1598.4	1729.1	1838.3	1900.2	1882.1
2955.2	25°	2821.9	2535.6	2100.5	1601.0	1453.1	1539.1	1661.2	1749.7	1792.7	1791.8
3051.5	27.5°	2921.6	2611.2	2085.0	1503.8	1393.8	1472.0	1580.3	1659.4	1689.5	1689.5
3171.0	30°	3037.7	2700.7	2067.8	1440.2	1359.4	1402.4	1486.6	1564.0	1594.1	1594.1
3301.7	32.5°	3166.7	2786.6	2026.6	1401.5	1333.6	1334.4	1387.7	1458.2	1494.4	1499.5
3465.0	35°	3321.4	2878.6	1936.3	1370.5	1303.5	1268.2	1294.0	1352.5	1395.5	1406.7
3698.0	37.5°	3524.4	2991.3	1807.3	1325.0	1257.0	1198.6	1204.6	1249.3	1296.6	1313.8
4019.6	40°	3796.9	3123.7	1673.2	1259.6	1191.7	1122.1	1119.5	1152.1	1198.6	1217.5
4454.7	42.5°	4157.2	3282.8	1545.1	1196.9	1112.6	1041.2	1036.9	1062.7	1103.1	1122.9
5029.0	45°	4618.0	3477.9	1435.0	1147.8	1035.2	964.7	963.0	984.5	1019.7	1040.4
5764.2	47.5°	5258.6	3673.1	1360.2	1122.1	974.2	901.9	905.4	924.3	956.1	970.7
6716.0	50°	6093.5	3732.4	1322.4	1122.1	941.5	846.1	863.2	878.7	902.8	911.4
7856.9	52.5°	6894.8	3536.4	1288.0	1128.9	945.8	798.8	835.7	846.9	867.5	871.0
8914.5	55°	7287.8	3040.3	1240.7	1130.7	972.4	758.4	813.4	834.0	841.8	840.9
9528.4	57.5°	7152.8	2458.2	1160.7	1123.8	990.5	732.6	785.9	825.4	830.6	822.8
9411.5	60°	6679.0	1809.9	1099.7	1073.0	983.6	724.8	743.7	806.5	814.2	803.9
8510.4	62.5°	5884.5	1256.2	1052.4	961.3	953.5	722.2	677.5	765.2	784.1	769.5
6840.7	65°	4632.7	887.3	906.2	842.6	888.2	708.5	608.7	715.4	741.2	718.8
4962.8	67.5°	3134.9	640.6	734.3	763.5	782.4	677.5	558.9	658.6	693.0	663.8
3184.7	70°	1693.0	449.7	484.9	643.1	664.6	624.2	514.2	601.0	640.6	608.7
2263.9	72.5°	1000.0	323.3	339.6	516.7	553.7	549.4	464.3	533.9	582.1	544.3
1562.3	75°	551.1	218.4	242.5	374.9	449.7	423.9	399.0	452.3	501.3	464.3
979.3	77.5°	246.8	130.7	168.5	245.9	353.4	290.6	308.7	352.5	398.1	359.4
545.1	80°	95.4	73.1	111.8	134.1	257.1	160.8	198.6	259.7	292.3	261.4
118.7	82.5°	12.0	32.7	48.1	52.4	149.6	85.1	115.2	163.4	160.8	139.3
0.0	85°	0.0	6.0	6.9	3.4	64.5	31.0	37.8	53.3	49.9	37.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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: P949795  
 CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1728.2	0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
1547.7	2.5°	1505.5	1474.6	1459.1	1446.2	1458.2	1465.1	1465.1	1494.4	1511.5	1518.4
1402.4	5°	1326.7	1269.1	1230.4	1207.2	1214.9	1223.5	1233.0	1269.9	1294.9	1311.2
1301.8	7.5°	1185.7	1098.0	1043.8	1015.4	1019.7	1025.8	1033.5	1069.6	1094.5	1116.0
1282.8	10°	1116.0	992.2	920.9	886.5	880.4	877.0	874.4	895.9	914.8	932.0
1360.2	12.5°	1119.5	946.7	859.8	817.7	799.6	779.0	762.7	766.1	778.1	799.6
1498.6	15°	1163.3	932.0	828.0	775.5	745.5	721.4	701.6	697.3	701.6	705.0
1656.9	17.5°	1222.7	930.3	800.5	735.1	704.2	684.4	666.4	660.3	661.2	665.5
1761.8	20°	1269.9	925.2	769.5	696.4	668.9	651.7	633.7	627.7	629.4	630.2
1772.1	22.5°	1294.9	917.4	735.1	657.8	634.5	617.3	601.0	600.1	600.1	605.3
1716.2	25°	1294.9	901.1	704.2	620.8	600.1	584.7	564.9	568.3	570.1	576.9
1629.3	27.5°	1263.9	870.1	679.3	589.0	567.5	552.0	533.9	538.2	540.8	548.6
1543.4	30°	1224.4	833.2	650.9	558.9	533.9	522.8	507.3	509.0	512.4	521.0
1463.4	32.5°	1182.2	789.3	627.7	528.8	503.8	495.3	478.1	480.6	484.1	493.5
1384.3	35°	1135.8	737.7	600.1	501.3	476.3	469.5	449.7	451.4	456.6	466.9
1299.2	37.5°	1086.8	695.6	572.6	474.6	448.8	441.9	421.3	423.0	429.0	441.1
1209.8	40°	1038.7	654.3	543.4	446.2	420.4	414.4	392.1	393.8	400.7	413.6
1119.5	42.5°	986.2	622.5	505.6	417.0	389.5	383.5	362.8	365.4	373.2	386.1
1036.1	45°	923.4	601.9	463.4	389.5	358.5	352.5	333.6	338.8	347.4	360.3
964.7	47.5°	859.0	593.3	428.2	360.3	326.7	321.6	306.1	314.7	324.1	334.5
903.7	50°	797.0	582.1	392.1	332.7	299.2	294.1	283.7	294.9	304.4	313.8
859.8	52.5°	726.5	558.0	359.4	308.7	276.0	274.3	269.1	279.4	288.0	296.6
822.0	55°	653.5	519.3	331.0	287.2	256.2	257.9	255.4	264.0	270.8	278.6
787.6	57.5°	589.8	470.3	308.7	264.0	239.0	244.2	240.7	245.0	249.3	258.8
746.3	60°	525.3	411.8	283.7	236.4	221.8	227.8	218.4	217.5	219.3	221.8
685.3	62.5°	438.5	350.8	252.8	212.4	202.9	205.5	187.4	173.7	173.7	176.3
600.1	65°	352.5	294.1	218.4	184.9	177.1	175.4	149.6	130.7	129.0	136.7
501.3	67.5°	289.8	244.2	184.0	153.9	148.7	150.5	131.6	112.6	110.9	119.5
408.4	70°	239.9	196.9	147.0	118.7	123.8	131.6	112.6	94.6	92.0	99.7
331.9	72.5°	190.9	153.9	112.6	87.7	102.3	111.8	92.0	74.8	73.1	80.0
256.2	75°	140.1	110.1	76.5	63.6	79.1	87.7	67.1	53.3	50.7	56.7
171.1	77.5°	86.8	61.9	48.1	37.8	54.2	58.5	35.3	31.0	30.1	34.4
104.0	80°	40.4	26.7	23.2	12.9	19.8	23.2	14.6	16.3	17.2	20.6
52.4	82.5°	11.2	4.3	0.9	0.0	0.0	6.9	3.4	6.9	8.6	12.9
4.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3	7.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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: P949795  
 CATALOG NUMBER: GALN-SB4B-940-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1728.2	0°	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2	1728.2
1566.6	2.5°	1602.7	1637.1	1692.1	1748.9	1804.7	1861.5	1916.5	1936.3
1386.0	5°	1453.9	1533.0	1642.2	1759.2	1879.5	2001.6	2113.4	2164.1
1199.4	7.5°	1288.0	1401.5	1565.7	1748.9	1940.6	2132.3	2308.6	2390.3
1014.6	10°	1110.9	1254.5	1441.9	1689.5	1964.7	2229.5	2472.0	2577.7
852.1	12.5°	942.4	1092.8	1300.0	1596.7	1945.8	2285.4	2576.9	2701.5
737.7	15°	801.3	934.6	1158.2	1486.6	1884.7	2288.8	2626.7	2763.4
674.1	17.5°	695.6	782.4	1013.7	1364.5	1804.7	2257.0	2643.9	2790.1
639.7	20°	643.1	667.2	826.3	1208.0	1729.9	2226.9	2661.1	2815.0
612.2	22.5°	612.2	618.2	675.8	1006.0	1640.5	2217.5	2691.2	2849.4
587.3	25°	587.3	589.0	604.4	797.0	1503.8	2211.4	2737.6	2896.7
561.5	27.5°	562.3	562.3	570.9	642.3	1318.1	2185.6	2797.8	2953.4
535.7	30°	537.4	537.4	543.4	568.3	1100.6	2134.9	2870.0	3027.4
509.9	32.5°	511.6	511.6	516.7	534.8	878.7	2071.3	2936.3	3102.2
483.2	35°	485.8	484.1	491.0	509.9	699.0	1990.5	3002.5	3183.0
456.6	37.5°	458.3	457.4	464.3	485.8	603.6	1896.7	3052.3	3293.1
429.9	40°	429.0	429.0	436.8	460.0	576.1	1778.9	3131.4	3451.3
402.4	42.5°	402.4	400.7	409.3	437.6	555.4	1666.3	3273.3	3681.7
377.5	45°	376.6	373.2	380.9	416.1	519.3	1626.8	3538.1	4022.2
353.4	47.5°	352.5	343.9	350.8	390.4	486.7	1774.6	3971.5	4494.2
331.9	50°	332.7	316.4	322.4	364.6	461.7	2095.4	4533.8	5121.0
312.1	52.5°	312.1	290.6	294.1	332.7	439.4	2400.6	5143.4	5948.2
292.3	55°	290.6	266.5	268.3	300.9	407.6	2446.2	5738.4	7076.2
270.0	57.5°	266.5	244.2	244.2	271.7	384.3	2120.3	6195.8	8476.0
242.5	60°	239.9	225.3	221.0	248.5	405.0	1496.1	6249.1	9378.8
207.2	62.5°	210.7	202.9	196.9	226.1	420.4	886.5	5820.1	9160.4
163.4	65°	177.1	175.4	171.1	248.5	354.2	523.6	4996.4	8490.6
139.3	67.5°	148.7	146.2	146.2	260.5	269.1	329.3	3903.5	7568.9
118.7	70°	128.1	118.7	118.7	196.9	163.4	227.8	2725.6	6574.1
98.0	72.5°	107.5	97.2	90.3	157.3	122.1	166.8	1703.3	5630.0
74.8	75°	86.0	78.2	69.6	104.0	91.1	126.4	989.6	4664.5
47.3	77.5°	61.9	58.5	49.0	76.5	66.2	91.1	589.0	3599.2
29.2	80°	31.8	32.7	31.0	43.9	44.7	61.9	335.3	2463.4
18.9	82.5°	18.9	14.6	16.3	21.5	25.8	35.3	126.4	1447.9
13.8	85°	12.0	7.7	7.7	10.3	12.9	13.8	38.7	587.3
6.9	87.5°	6.0	2.6	3.4	5.2	4.3	3.4	1.7	147.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)