

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: P951162

Luminaire Tested: **GALN-SB5B-927-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951162  
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-SB5B-927-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

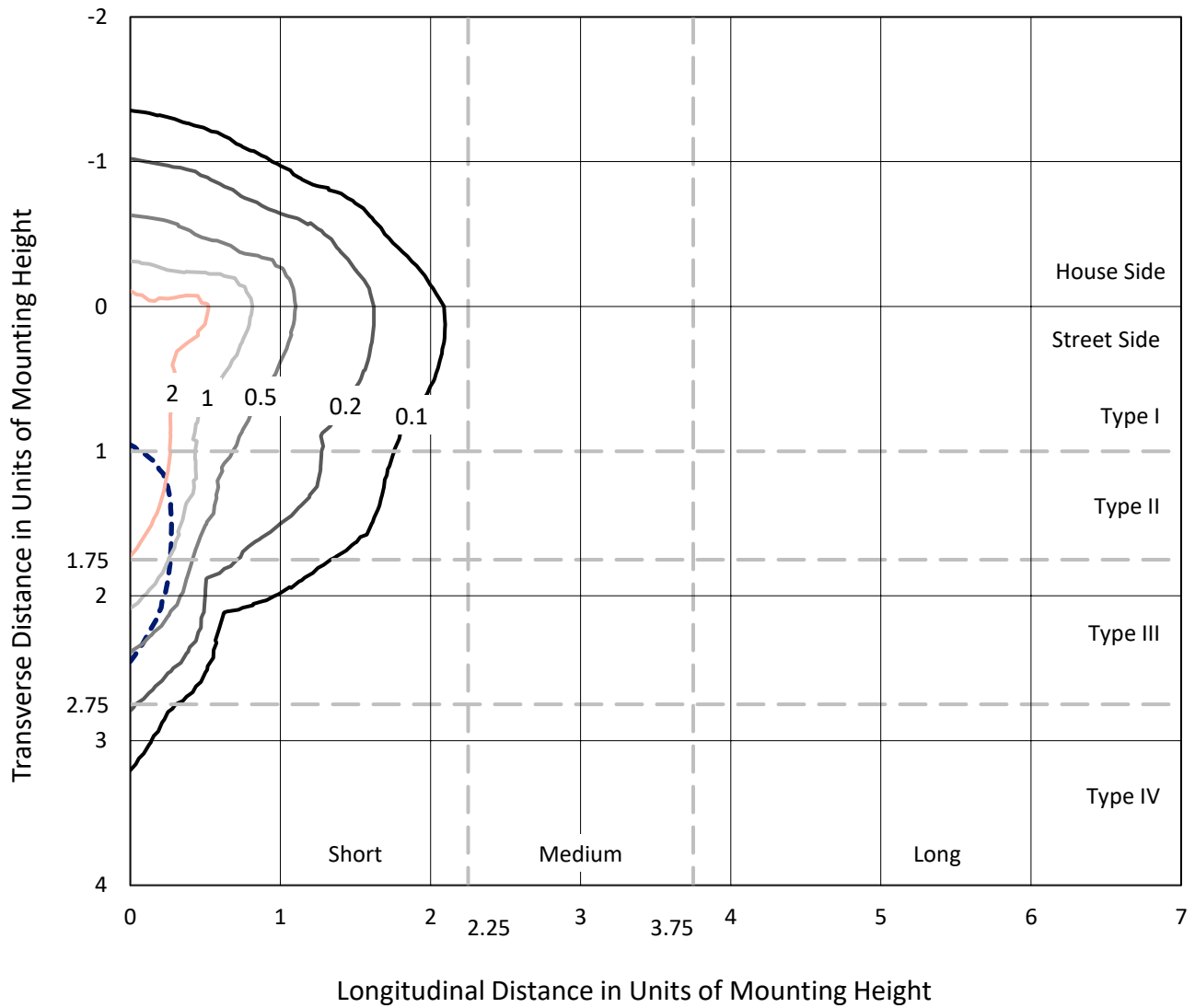
Lumens per Lamp: N/A  
Luminaire Lumens: 13214 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P951162  
 CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

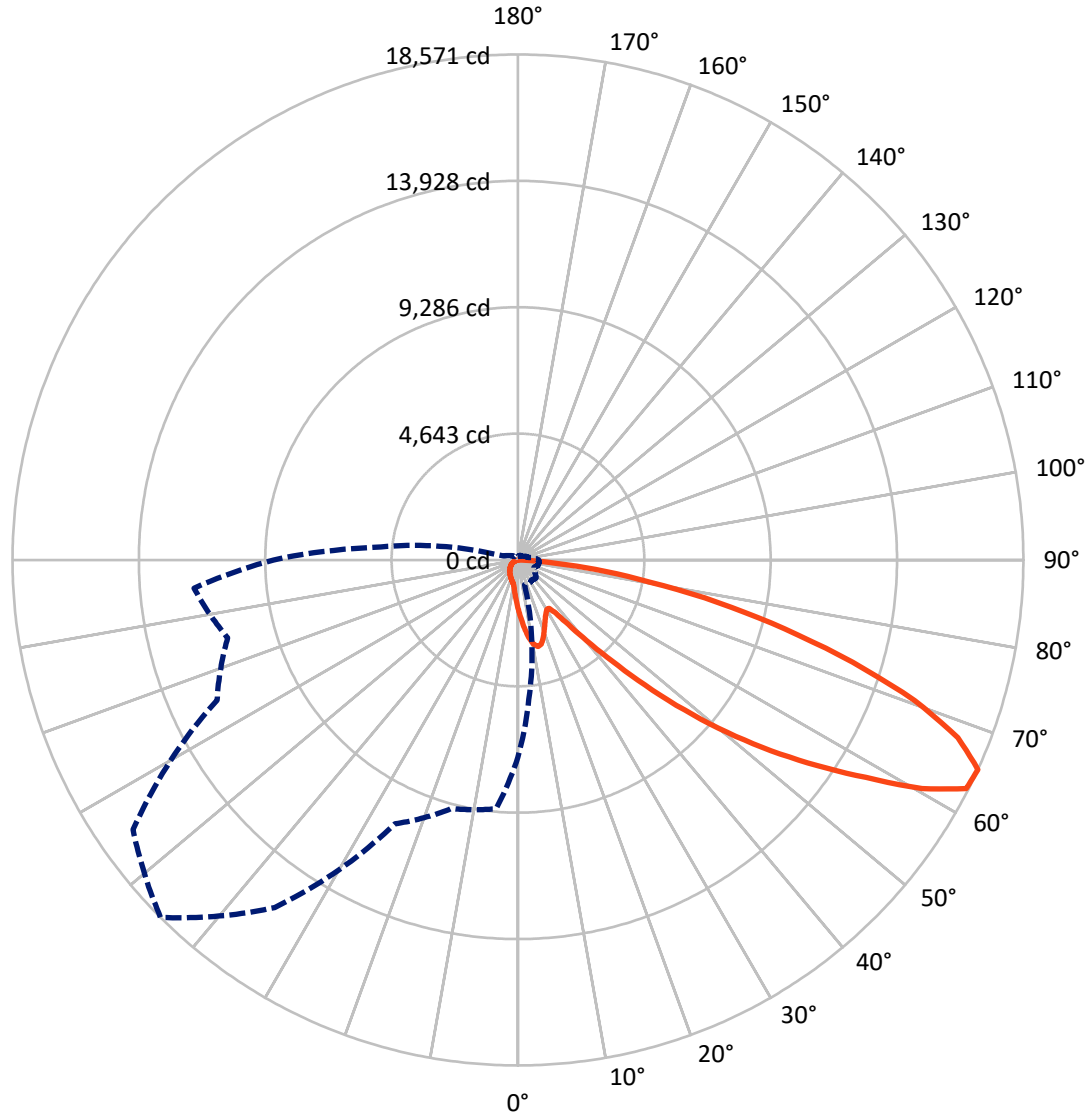
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P951162  
CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P951162  
 CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1850.5	0.0	1850.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	11363.5	0.0	11363.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	13214.0	0.0	13214.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.1	1.4
10°-20°	540.0	4.1
20°-30°	795.5	6.0
30°-40°	1022.1	7.7
40°-50°	1653.0	12.5
50°-60°	2898.7	21.9
60°-70°	3627.0	27.4
70°-80°	2119.5	16.0
80°-90°	378.1	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°	13214.0	100.0
0°-180°	13214.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951162

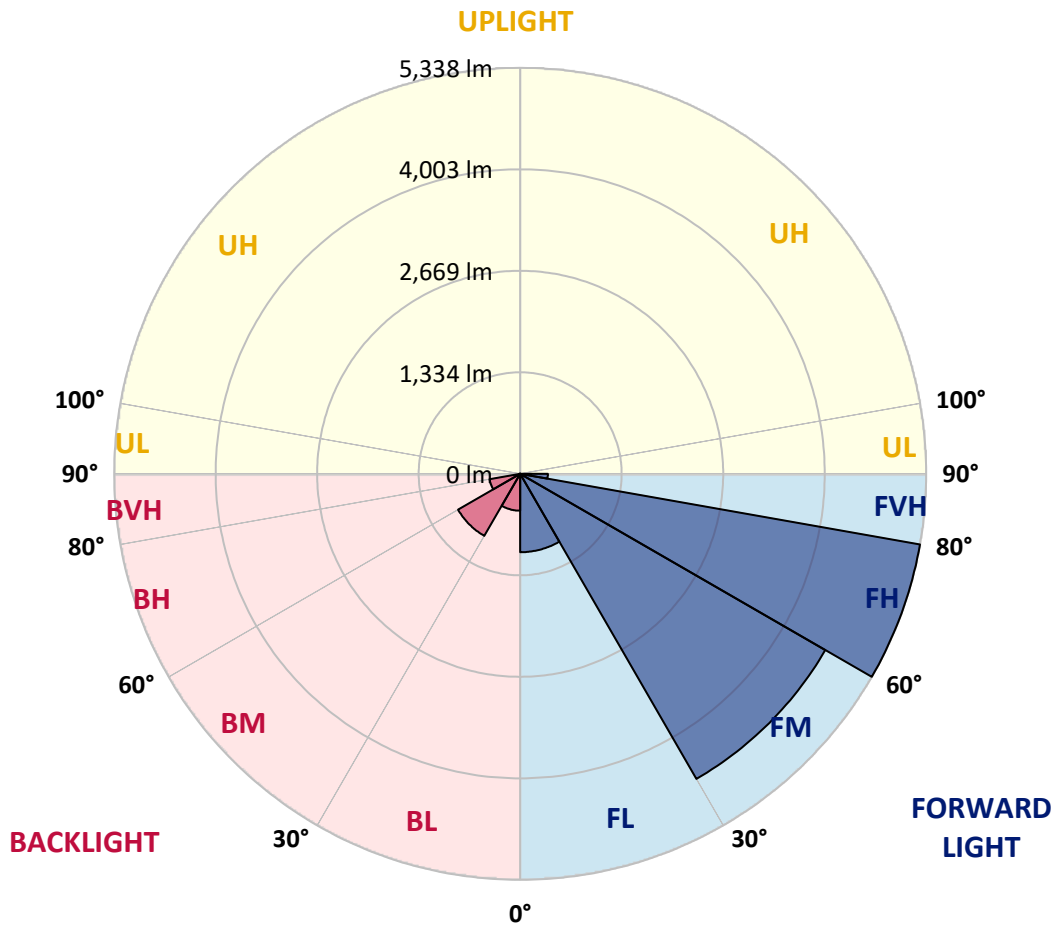
CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.6	7.8			
FM (30°-60°)	4631.4	35.0			
FH (60°-80°)	5337.9	40.4			G3/7500
FVH (80°-90°)	363.6	2.8			G3/500
BL (0°-30°)	485.1	3.7	B1/500		
BM (30°-60°)	942.3	7.1	B1/1000		
BH (60°-80°)	408.6	3.1	B1/500		G1/500
BVH (80°-90°)	14.5	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: P951162  
 CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
2.5°	2067.3	2031.8	2010.9	1959.0	1907.1	1865.2	1808.8	1771.5	1726.9	1684.1
5°	2304.0	2246.6	2177.5	2082.8	1996.3	1908.0	1822.4	1737.8	1648.6	1566.6
7.5°	2504.3	2421.4	2299.4	2173.8	2063.7	1957.2	1857.0	1745.1	1636.7	1508.4
10°	2657.2	2551.6	2391.4	2226.6	2100.1	1992.7	1895.3	1800.6	1691.3	1536.6
12.5°	2750.0	2637.2	2446.9	2253.9	2109.2	1989.0	1913.5	1871.6	1828.8	1675.0
15°	2818.3	2696.3	2486.0	2273.0	2088.2	1940.8	1885.2	1927.1	1976.3	1878.0
17.5°	2889.3	2761.0	2537.0	2281.2	2031.8	1847.0	1823.3	1931.7	2045.5	2040.9
20°	2956.7	2829.2	2581.6	2275.8	1940.8	1733.2	1754.2	1892.5	2024.5	2080.1
22.5°	3034.1	2899.3	2624.4	2254.8	1822.4	1626.7	1692.3	1830.6	1946.2	2011.8
25°	3128.7	2987.6	2684.5	2223.9	1695.0	1538.4	1629.4	1758.7	1852.5	1898.0
27.5°	3230.7	3093.2	2764.6	2207.5	1592.1	1475.6	1558.4	1673.1	1756.9	1788.8
30°	3357.2	3216.1	2859.3	2189.3	1524.8	1439.2	1484.7	1573.9	1655.8	1687.7
32.5°	3495.6	3352.7	2950.3	2145.6	1483.8	1411.9	1412.8	1469.2	1543.9	1582.1
35°	3668.5	3516.5	3047.7	2050.0	1451.0	1380.0	1342.7	1370.0	1431.9	1477.4
37.5°	3915.2	3731.3	3167.0	1913.5	1402.8	1330.9	1269.0	1275.3	1322.7	1372.7
40°	4255.7	4019.9	3307.1	1771.5	1333.6	1261.7	1188.0	1185.2	1219.8	1269.0
42.5°	4716.3	4401.3	3475.6	1635.8	1267.1	1177.9	1102.4	1097.8	1125.1	1167.9
45°	5324.4	4889.3	3682.2	1519.3	1215.3	1096.0	1021.4	1019.5	1042.3	1079.6
47.5°	6102.7	5567.4	3888.8	1440.1	1188.0	1031.4	954.9	958.6	978.6	1012.3
50°	7110.4	6451.3	3951.6	1400.1	1188.0	996.8	895.7	913.9	930.3	955.8
52.5°	8318.4	7299.7	3744.1	1363.6	1195.2	1001.3	845.7	884.8	896.7	918.5
55°	9438.1	7715.8	3218.8	1313.6	1197.1	1029.6	802.9	861.2	883.0	891.2
57.5°	10088.0	7572.8	2602.6	1228.9	1189.8	1048.7	775.6	832.0	873.9	879.4
60°	9964.2	7071.3	1916.2	1164.3	1136.1	1041.4	767.4	787.4	853.9	862.1
62.5°	9010.2	6230.1	1330.0	1114.2	1017.7	1009.5	764.7	717.3	810.2	830.2
65°	7242.4	4904.7	939.4	959.5	892.1	940.3	750.1	644.5	757.4	784.7
67.5°	5254.3	3319.0	678.2	777.4	808.4	828.4	717.3	591.7	697.3	733.7
70°	3371.8	1792.4	476.1	513.4	680.9	703.7	660.9	544.4	636.3	678.2
72.5°	2396.8	1058.7	342.3	359.6	547.1	586.2	581.7	491.6	565.3	616.3
75°	1654.0	583.5	231.2	256.7	396.9	476.1	448.8	422.4	478.8	530.7
77.5°	1036.8	261.3	138.4	178.4	260.3	374.1	307.7	326.8	373.2	421.5
80°	577.1	101.0	77.4	118.3	142.0	272.2	170.2	210.3	274.9	309.5
82.5°	125.6	12.7	34.6	51.0	55.5	158.4	90.1	122.0	173.0	170.2
85°	0.0	0.0	6.4	7.3	3.6	68.3	32.8	40.1	56.4	52.8
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: P951162  
 CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1829.7	0°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
1645.8	2.5°	1638.6	1593.9	1561.2	1544.8	1531.1	1543.9	1551.2	1551.2	1582.1	1600.3
1516.6	5°	1484.7	1404.6	1343.6	1302.6	1278.1	1286.3	1295.4	1305.4	1344.5	1370.9
1440.1	7.5°	1378.2	1255.3	1162.5	1105.1	1075.1	1079.6	1086.0	1094.2	1132.4	1158.8
1451.0	10°	1358.2	1181.6	1050.5	974.9	938.5	932.2	928.5	925.8	948.5	968.6
1574.8	12.5°	1440.1	1185.2	1002.2	910.3	865.7	846.6	824.7	807.4	811.1	823.8
1762.4	15°	1586.7	1231.6	986.8	876.6	821.1	789.2	763.7	742.8	738.3	742.8
1926.2	17.5°	1754.2	1294.5	985.0	847.5	778.3	745.5	724.6	705.5	699.1	700.0
2018.1	20°	1865.2	1344.5	979.5	814.7	737.3	708.2	690.0	670.9	664.5	666.3
1992.7	22.5°	1876.1	1370.9	971.3	778.3	696.4	671.8	653.6	636.3	635.4	635.4
1897.1	25°	1817.0	1370.9	954.0	745.5	657.2	635.4	619.0	598.1	601.7	603.5
1788.8	27.5°	1725.0	1338.2	921.2	719.1	623.6	600.8	584.4	565.3	569.9	572.6
1687.7	30°	1634.0	1296.3	882.1	689.1	591.7	565.3	553.5	537.1	538.9	542.5
1587.6	32.5°	1549.3	1251.7	835.7	664.5	559.8	533.4	524.3	506.1	508.9	512.5
1489.3	35°	1465.6	1202.5	781.0	635.4	530.7	504.3	497.0	476.1	477.9	483.4
1390.9	37.5°	1375.5	1150.6	736.4	606.3	502.5	475.2	467.9	446.1	447.9	454.2
1289.0	40°	1280.8	1099.7	692.7	575.3	472.4	445.1	438.8	415.1	416.9	424.2
1188.9	42.5°	1185.2	1044.1	659.1	535.3	441.5	412.4	406.0	384.1	386.9	395.1
1101.5	45°	1096.9	977.7	637.2	490.7	412.4	379.6	373.2	353.2	358.7	367.8
1027.7	47.5°	1021.4	909.4	628.1	453.3	381.4	345.9	340.5	324.1	333.2	343.2
964.9	50°	956.7	843.9	616.3	415.1	352.3	316.8	311.3	300.4	312.2	322.2
922.1	52.5°	910.3	769.2	590.8	380.5	326.8	292.2	290.4	284.9	295.8	305.0
890.3	55°	870.3	691.8	549.8	350.5	304.0	271.3	273.1	270.4	279.5	286.7
871.2	57.5°	833.8	624.5	497.9	326.8	279.5	253.1	258.5	254.9	259.4	264.0
851.1	60°	790.1	556.2	436.0	300.4	250.3	234.9	241.2	231.2	230.3	232.1
814.7	62.5°	725.5	464.3	371.4	267.6	224.8	214.8	217.6	198.4	183.9	183.9
761.0	65°	635.4	373.2	311.3	231.2	195.7	187.5	185.7	158.4	138.4	136.5
702.8	67.5°	530.7	306.8	258.5	194.8	162.9	157.5	159.3	139.3	119.3	117.4
644.5	70°	432.4	254.0	208.5	155.7	125.6	131.1	139.3	119.3	100.1	97.4
576.2	72.5°	351.4	202.1	162.9	119.3	92.9	108.3	118.3	97.4	79.2	77.4
491.6	75°	271.3	148.4	116.5	81.0	67.4	83.7	92.9	71.0	56.4	53.7
380.5	77.5°	181.2	91.9	65.5	51.0	40.1	57.3	61.9	37.3	32.8	31.9
276.7	80°	110.1	42.8	28.2	24.6	13.7	20.9	24.6	15.5	17.3	18.2
147.5	82.5°	55.5	11.8	4.6	0.9	0.0	0.0	7.3	3.6	7.3	9.1
40.1	85°	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.6
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: P951162  
 CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1829.7	0°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
1607.6	2.5°	1658.6	1696.8	1733.2	1791.5	1851.6	1910.7	1970.8	2029.1	2050.0	2065.5
1388.2	5°	1467.4	1539.3	1623.1	1738.7	1862.5	1989.9	2119.2	2237.5	2291.2	2327.7
1181.6	7.5°	1269.9	1363.6	1483.8	1657.7	1851.6	2054.6	2257.6	2444.2	2530.7	2600.7
986.8	10°	1074.2	1176.1	1328.1	1526.6	1788.8	2080.1	2360.4	2617.1	2729.1	2817.4
846.6	12.5°	902.1	997.7	1157.0	1376.4	1690.4	2060.0	2419.6	2728.2	2860.2	2959.4
746.5	15°	781.0	848.4	989.5	1226.2	1573.9	1995.4	2423.2	2781.0	2925.7	3029.5
704.6	17.5°	713.7	736.4	828.4	1073.3	1444.7	1910.7	2389.6	2799.2	2953.9	3050.4
667.3	20°	677.3	680.9	706.4	874.8	1279.0	1831.5	2357.7	2817.4	2980.3	3061.4
640.9	22.5°	648.1	648.1	654.5	715.5	1065.1	1736.9	2347.7	2849.3	3016.8	3066.8
610.8	25°	621.7	621.7	623.6	639.9	843.9	1592.1	2341.3	2898.4	3066.8	3080.5
580.8	27.5°	594.4	595.3	595.3	604.4	680.0	1395.5	2314.0	2962.1	3126.9	3098.7
551.6	30°	567.1	568.9	568.9	575.3	601.7	1165.2	2260.3	3038.6	3205.2	3122.4
522.5	32.5°	539.8	541.6	541.6	547.1	566.2	930.3	2192.9	3108.7	3284.4	3132.4
494.3	35°	511.6	514.3	512.5	519.8	539.8	740.1	2107.4	3178.8	3370.0	3164.2
467.0	37.5°	483.4	485.2	484.3	491.6	514.3	639.0	2008.1	3231.6	3486.5	3235.2
437.9	40°	455.2	454.2	454.2	462.4	487.0	609.9	1883.4	3315.3	3654.0	3359.9
408.7	42.5°	426.0	426.0	424.2	433.3	463.3	588.1	1764.2	3465.5	3897.9	3558.4
381.4	45°	399.6	398.7	395.1	403.3	440.6	549.8	1722.3	3745.9	4258.4	3879.7
354.1	47.5°	374.1	373.2	364.1	371.4	413.3	515.2	1878.9	4204.7	4758.2	4352.2
332.3	50°	351.4	352.3	335.0	341.4	386.0	488.8	2218.4	4800.0	5421.8	4988.5
314.1	52.5°	330.4	330.4	307.7	311.3	352.3	465.2	2541.6	5445.5	6297.5	5876.0
294.9	55°	309.5	307.7	282.2	284.0	318.6	431.5	2589.8	6075.4	7491.8	7211.4
274.0	57.5°	285.8	282.2	258.5	258.5	287.7	406.9	2244.8	6559.7	8973.8	9174.1
234.9	60°	256.7	254.0	238.5	233.9	263.1	428.8	1583.9	6616.1	9929.6	11783.9
186.6	62.5°	219.4	223.0	214.8	208.5	239.4	445.1	938.5	6161.9	9698.4	12614.1
144.7	65°	173.0	187.5	185.7	181.2	263.1	375.0	554.4	5289.8	8989.3	11944.1
126.5	67.5°	147.5	157.5	154.8	154.8	275.8	284.9	348.6	4132.8	8013.4	11149.4
105.6	70°	125.6	135.6	125.6	125.6	208.5	173.0	241.2	2885.7	6960.2	10270.1
84.7	72.5°	103.8	113.8	102.9	95.6	166.6	129.3	176.6	1803.3	5960.7	9354.3
60.1	75°	79.2	91.0	82.8	73.7	110.1	96.5	133.8	1047.8	4938.4	8003.4
36.4	77.5°	50.1	65.5	61.9	51.9	81.0	70.1	96.5	623.6	3810.5	6253.8
21.8	80°	31.0	33.7	34.6	32.8	46.4	47.3	65.5	355.0	2608.0	4358.5
13.7	82.5°	20.0	20.0	15.5	17.3	22.8	27.3	37.3	133.8	1533.0	2653.5
8.2	85°	14.6	12.7	8.2	8.2	10.9	13.7	14.6	41.0	621.7	1047.8
3.6	87.5°	7.3	6.4	2.7	3.6	5.5	4.6	3.6	1.8	156.6	335.0
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: P951162  
 CATALOG NUMBER: GALN-SB5B-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1829.7	0°	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7	1829.7
2100.1	2.5°	2118.3	2146.5	2148.3	2148.3	2123.7	2122.8	2072.8	2067.3
2409.6	5°	2494.2	2512.4	2517.0	2507.9	2458.7	2422.3	2324.9	2304.0
2725.5	7.5°	2838.3	2874.7	2874.7	2852.9	2772.8	2698.1	2557.1	2504.3
2986.7	10°	3113.2	3155.1	3146.0	3101.4	3000.4	2897.5	2726.4	2657.2
3145.1	12.5°	3247.1	3289.8	3266.2	3215.2	3116.9	3008.6	2828.3	2750.0
3190.6	15°	3244.3	3232.5	3207.9	3201.5	3154.2	3072.3	2903.9	2818.3
3162.4	17.5°	3128.7	3028.6	3009.5	3073.2	3133.3	3113.2	2969.4	2889.3
3095.0	20°	2945.8	2771.0	2753.7	2875.7	3046.8	3134.2	3030.4	2956.7
2997.6	22.5°	2752.8	2564.3	2524.3	2659.0	2916.6	3140.6	3107.8	3034.1
2890.2	25°	2569.8	2380.5	2340.4	2466.0	2771.9	3129.6	3191.5	3128.7
2787.4	27.5°	2416.9	2233.9	2196.6	2322.2	2632.6	3098.7	3275.3	3230.7
2685.4	30°	2298.5	2129.2	2101.9	2223.0	2512.4	3060.5	3381.8	3357.2
2590.7	32.5°	2229.3	2105.5	2115.6	2214.8	2447.8	3018.6	3483.7	3495.6
2544.3	35°	2297.6	2303.1	2390.5	2431.4	2507.9	3012.2	3622.1	3668.5
2599.8	37.5°	2637.2	2826.5	3007.7	2974.0	2801.9	3085.9	3828.7	3915.2
2842.0	40°	3215.2	3603.9	3897.9	3769.6	3336.3	3311.7	4126.4	4255.7
3271.6	42.5°	3921.6	4580.7	5064.9	4720.8	4025.4	3706.8	4551.5	4716.3
3791.4	45°	4667.1	5785.0	6547.8	5832.3	4760.0	4260.2	5195.1	5324.4
4278.4	47.5°	5452.7	7248.8	8235.5	7064.9	5440.9	4890.2	6072.7	6102.7
4740.0	50°	6312.1	8853.6	9956.0	8296.5	6098.1	5612.0	7145.0	7110.4
5278.0	52.5°	7130.4	10504.0	11640.1	9533.6	6675.3	6507.8	8389.4	8318.4
6013.5	55°	7911.5	12153.5	13334.2	10722.5	7219.6	7691.2	9867.7	9438.1
7074.0	57.5°	8817.2	13636.4	15080.1	11916.8	7980.7	9227.8	11520.8	10088.0
9104.9	60°	10156.3	15321.4	17054.6	13553.6	9428.0	10842.7	12113.4	9964.2
11537.2	62.5°	11865.8	16870.7	18490.1	15157.5	10881.8	11146.7	11240.5	9010.2
11041.1	65°	12198.1	17263.1	18571.2	15586.3	10694.3	9455.4	9176.8	7242.4
9862.3	67.5°	11316.9	16553.9	17438.7	14787.9	9459.9	7307.0	6886.5	5254.3
9088.5	70°	10328.3	15202.1	15465.2	13430.7	8320.2	5374.4	4650.8	3371.8
8558.7	72.5°	9315.2	13398.8	12854.4	11663.8	7312.5	3913.4	3354.5	2396.8
7804.1	75°	8111.7	11027.5	10125.3	9691.1	6054.4	3071.4	2426.9	1654.0
6712.6	77.5°	6495.9	7762.2	7521.0	7511.8	4549.7	2243.9	1619.4	1036.8
5244.3	80°	4582.5	5037.6	4914.7	5657.6	3052.3	1627.6	974.9	577.1
3650.3	82.5°	2218.4	2785.5	2859.3	3369.0	1484.7	957.6	224.8	125.6
1427.4	85°	868.4	1343.6	1133.3	1279.0	416.9	266.7	5.5	0.0
234.9	87.5°	97.4	155.7	142.9	112.9	51.0	10.9	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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