

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: P950091

Luminaire Tested: **GALN-SB4C-927-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950091  
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-SB4C-927-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

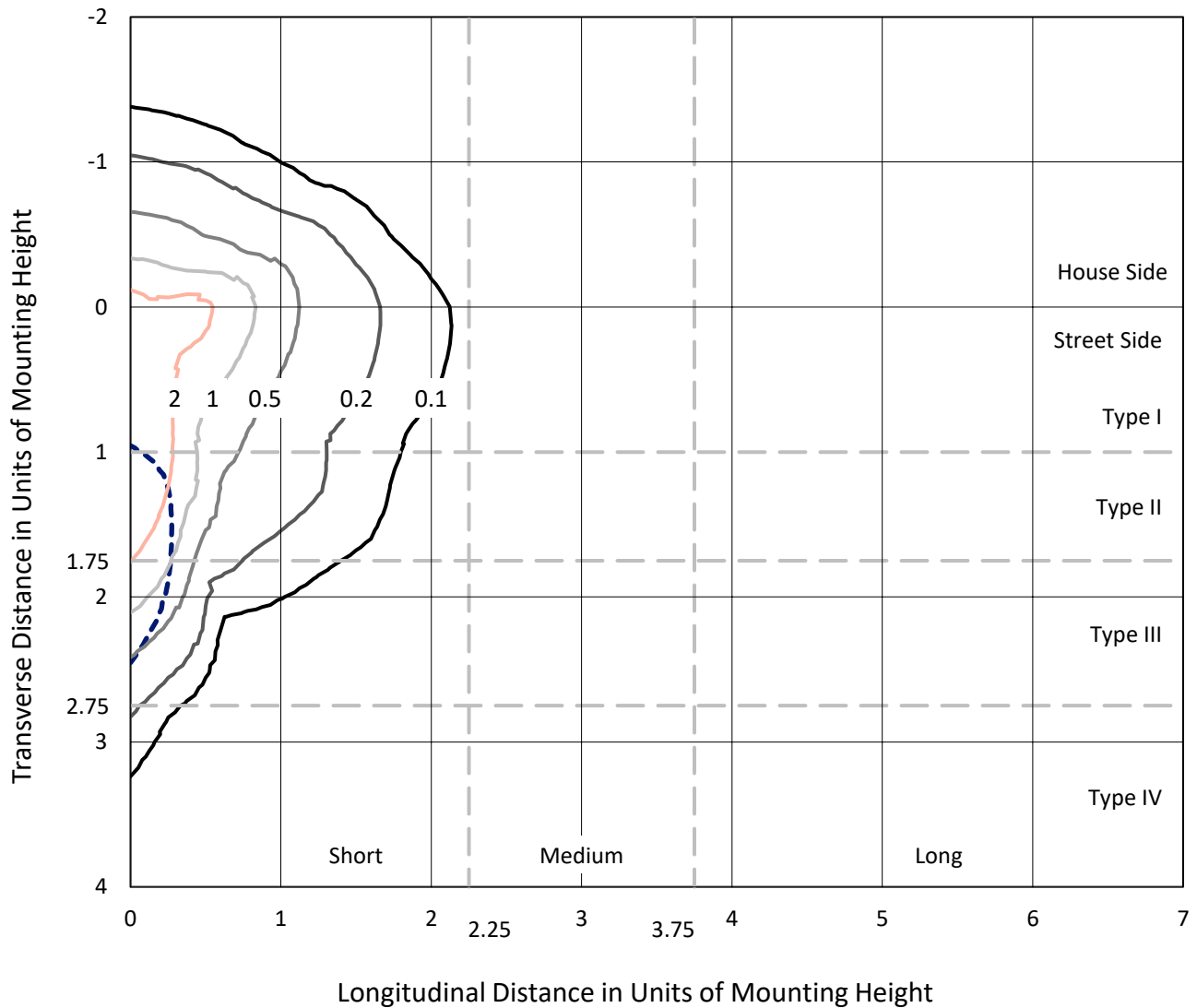
Lumens per Lamp: N/A  
Luminaire Lumens: 13943 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P950091  
 CATALOG NUMBER: GALN-SB4C-927-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

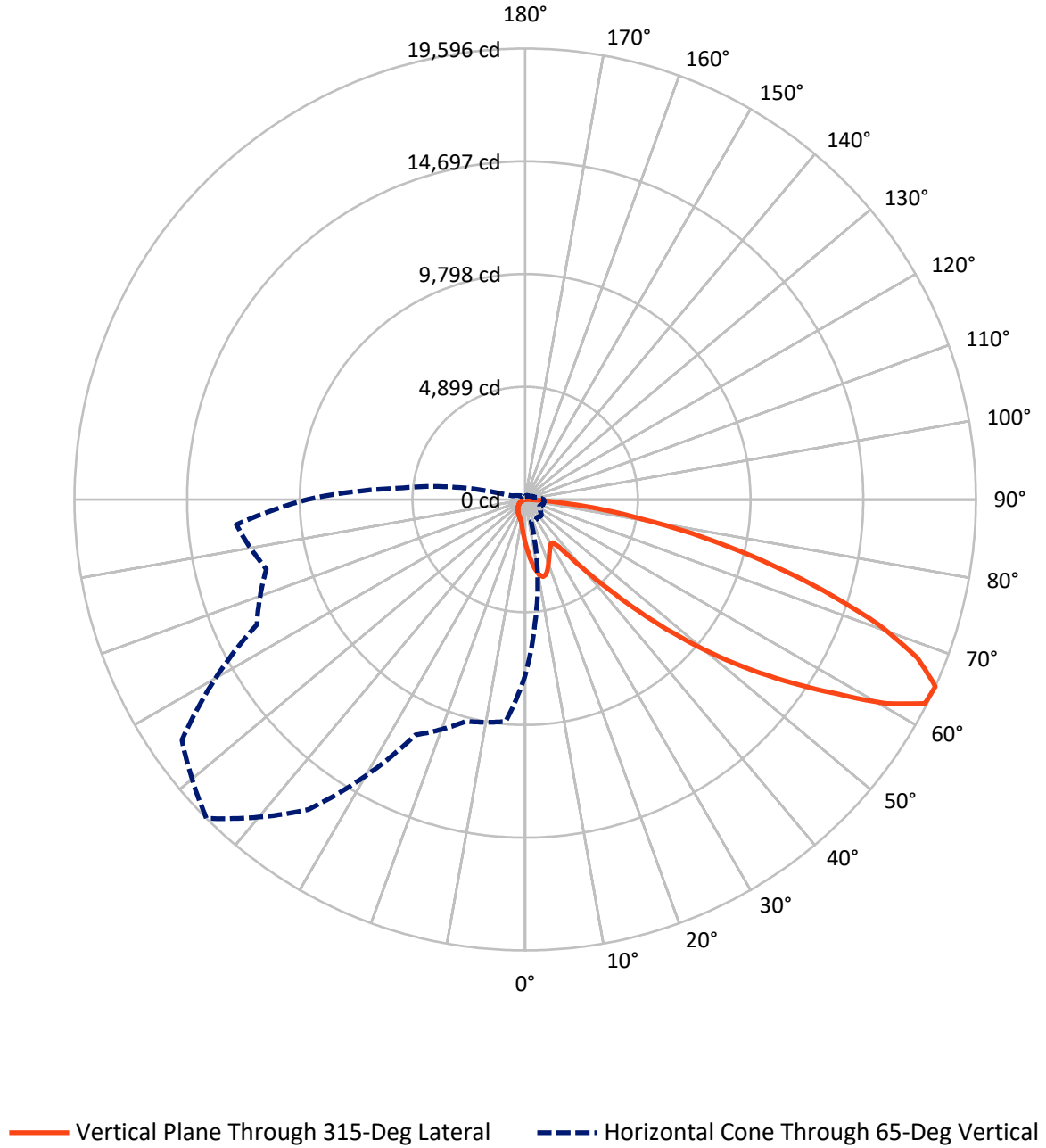
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P950091  
CATALOG NUMBER: GALN-SB4C-927-U-SLR-HSS

### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1952.6	0.0	1952.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	11990.4	0.0	11990.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	13943.0	0.0	13943.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	1.4
10°-20°	569.8	4.1
20°-30°	839.4	6.0
30°-40°	1078.4	7.7
40°-50°	1744.2	12.5
50°-60°	3058.6	21.9
60°-70°	3827.1	27.4
70°-80°	2236.4	16.0
80°-90°	399.0	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°	13943.0	100.0
0°-180°	13943.0	100.0

**Coefficient of Utilization**



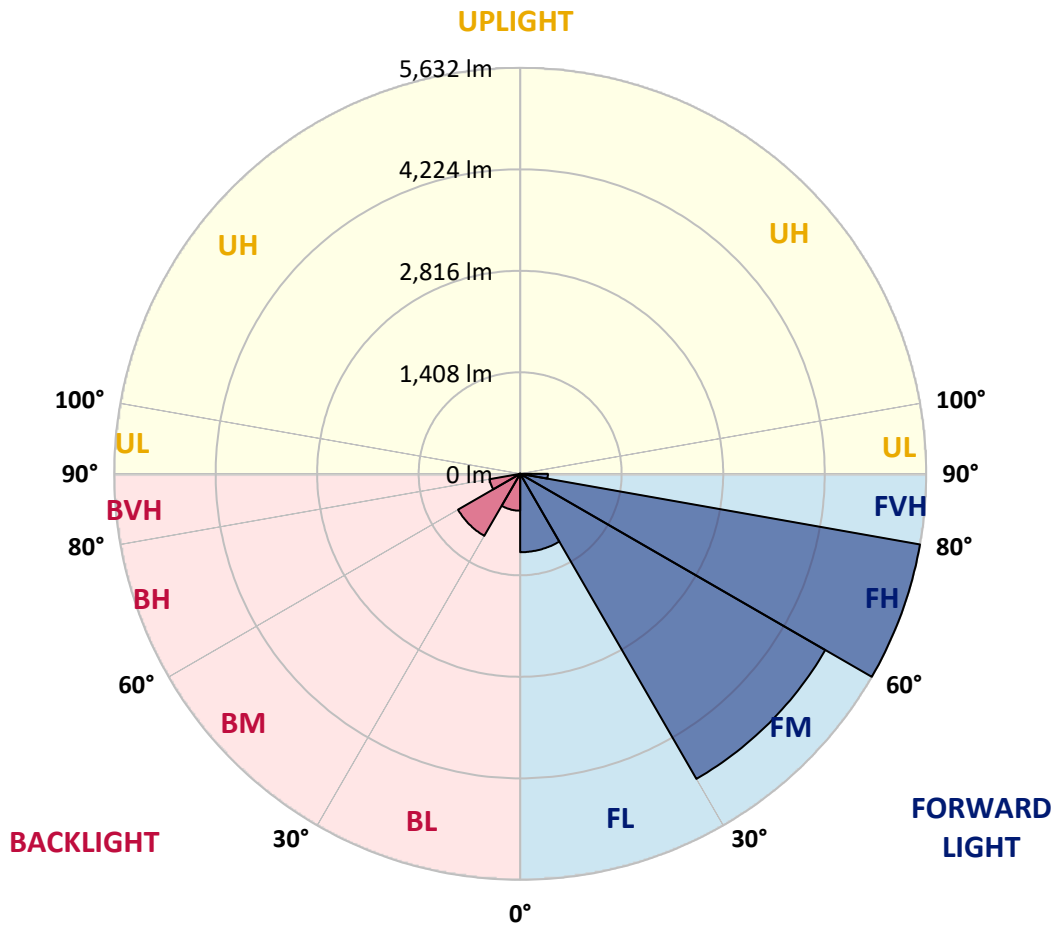
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 CATALOG NUMBER: GALN-SB4C-927-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.5	7.8			
FM (30°-60°)	4886.9	35.0			
FH (60°-80°)	5632.3	40.4			G3/7500
FVH (80°-90°)	383.7	2.8			G3/500
BL (0°-30°)	511.8	3.7	B2/1000		
BM (30°-60°)	994.3	7.1	B1/1000		
BH (60°-80°)	431.2	3.1	B1/500		G1/500
BVH (80°-90°)	15.3	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: P950091  
 CATALOG NUMBER: GALN-SB4C-927-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
2.5°	2181.4	2143.9	2121.8	2067.1	2012.3	1968.1	1908.6	1869.2	1822.1	1777.0
5°	2431.1	2370.6	2297.6	2197.7	2106.4	2013.3	1923.0	1833.6	1739.5	1653.1
7.5°	2642.4	2555.0	2426.3	2293.7	2177.5	2065.1	1959.5	1841.3	1727.0	1591.6
10°	2803.8	2692.4	2523.3	2349.4	2215.9	2102.6	1999.8	1899.9	1784.7	1621.4
12.5°	2901.8	2782.6	2581.9	2378.3	2225.5	2098.8	2019.0	1974.8	1929.7	1767.4
15°	2973.8	2845.1	2623.2	2398.4	2203.4	2047.8	1989.3	2033.4	2085.3	1981.6
17.5°	3048.7	2913.3	2677.0	2407.1	2143.9	1948.9	1923.9	2038.2	2158.3	2153.5
20°	3119.8	2985.3	2724.1	2401.3	2047.8	1828.8	1850.9	1996.9	2136.2	2194.8
22.5°	3201.4	3059.3	2769.2	2379.2	1923.0	1716.5	1785.6	1931.6	2053.6	2122.8
25°	3301.3	3152.4	2832.6	2346.6	1788.5	1623.3	1719.3	1855.7	1954.7	2002.7
27.5°	3408.9	3263.9	2917.1	2329.3	1680.0	1557.0	1644.4	1765.4	1853.8	1887.4
30°	3542.4	3393.5	3017.0	2310.1	1608.9	1518.6	1566.6	1660.8	1747.2	1780.8
32.5°	3688.4	3537.6	3113.1	2264.0	1565.7	1489.8	1490.7	1550.3	1629.1	1669.4
35°	3870.9	3710.5	3215.8	2163.1	1531.1	1456.2	1416.8	1445.6	1510.9	1558.9
37.5°	4131.2	3937.2	3341.7	2019.0	1480.2	1404.3	1339.0	1345.7	1395.6	1448.5
40°	4490.5	4241.7	3489.6	1869.2	1407.2	1331.3	1253.5	1250.6	1287.1	1339.0
42.5°	4976.5	4644.1	3667.3	1726.1	1337.1	1242.9	1163.2	1158.4	1187.2	1232.4
45°	5618.1	5159.0	3885.3	1603.1	1282.3	1156.5	1077.7	1075.8	1099.8	1139.2
47.5°	6439.4	5874.6	4103.4	1519.6	1253.5	1088.3	1007.6	1011.4	1032.6	1068.1
50°	7502.7	6807.3	4169.6	1477.3	1253.5	1051.8	945.2	964.4	981.7	1008.6
52.5°	8777.3	7702.5	3950.6	1438.9	1261.2	1056.6	892.3	933.6	946.1	969.2
55°	9958.7	8141.4	3396.4	1386.0	1263.1	1086.4	847.2	908.7	931.7	940.4
57.5°	10644.6	7990.6	2746.1	1296.7	1255.4	1106.5	818.4	877.9	922.1	927.9
60°	10513.9	7461.4	2021.9	1228.5	1198.7	1098.8	809.7	830.9	901.0	909.6
62.5°	9507.3	6573.8	1403.3	1175.7	1073.9	1065.2	806.8	756.9	854.9	876.0
65°	7642.0	5175.3	991.3	1012.4	941.3	992.2	791.5	680.1	799.2	828.0
67.5°	5544.2	3502.1	715.6	820.3	852.9	874.1	756.9	624.3	735.8	774.2
70°	3557.8	1891.3	502.4	541.7	718.5	742.5	697.3	574.4	671.4	715.6
72.5°	2529.1	1117.1	361.2	379.4	577.3	618.6	613.8	518.7	596.5	650.3
75°	1745.3	615.7	244.0	270.9	418.8	502.4	473.5	445.7	505.2	560.0
77.5°	1094.0	275.7	146.0	188.3	274.7	394.8	324.7	344.8	393.8	444.7
80°	609.0	106.6	81.6	124.9	149.8	287.2	179.6	221.9	290.1	326.6
82.5°	132.6	13.4	36.5	53.8	58.6	167.1	95.1	128.7	182.5	179.6
85°	0.0	0.0	6.7	7.7	3.8	72.0	34.6	42.3	59.6	55.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950091  
 CATALOG NUMBER: GALN-SB4C-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1930.7	0°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
1736.6	2.5°	1728.9	1681.9	1647.3	1630.0	1615.6	1629.1	1636.7	1636.7	1669.4	1688.6
1600.2	5°	1566.6	1482.1	1417.7	1374.5	1348.6	1357.2	1366.8	1377.4	1418.7	1446.6
1519.6	7.5°	1454.2	1324.6	1226.6	1166.1	1134.4	1139.2	1145.9	1154.6	1194.9	1222.8
1531.1	10°	1433.1	1246.8	1108.4	1028.7	990.3	983.6	979.7	976.9	1000.9	1022.0
1661.7	12.5°	1519.6	1250.6	1057.5	960.5	913.5	893.3	870.2	852.0	855.8	869.3
1859.6	15°	1674.2	1299.6	1041.2	925.0	866.4	832.8	805.9	783.8	779.0	783.8
2032.5	17.5°	1850.9	1365.9	1039.3	894.3	821.3	786.7	764.6	744.4	737.7	738.6
2129.5	20°	1968.1	1418.7	1033.5	859.7	778.0	747.3	728.1	707.9	701.2	703.1
2102.6	22.5°	1979.6	1446.6	1024.9	821.3	734.8	708.9	689.7	671.4	670.4	670.4
2001.7	25°	1917.2	1446.6	1006.6	786.7	693.5	670.4	653.2	631.1	634.9	636.8
1887.4	27.5°	1820.2	1412.0	972.1	758.8	658.0	633.9	616.7	596.5	601.3	604.2
1780.8	30°	1724.1	1367.8	930.8	727.1	624.3	596.5	584.0	566.7	568.6	572.5
1675.2	32.5°	1634.8	1320.7	881.8	701.2	590.7	562.9	553.3	534.1	536.9	540.8
1571.4	35°	1546.4	1268.9	824.1	670.4	560.0	532.1	524.4	502.4	504.3	510.0
1467.7	37.5°	1451.4	1214.1	777.1	639.7	530.2	501.4	493.7	470.7	472.6	479.3
1360.1	40°	1351.5	1160.3	731.0	607.1	498.5	469.7	463.0	438.0	439.9	447.6
1254.4	42.5°	1250.6	1101.7	695.4	564.8	465.9	435.1	428.4	405.3	408.2	416.9
1162.2	45°	1157.4	1031.6	672.4	517.7	435.1	400.5	393.8	372.7	378.4	388.1
1084.4	47.5°	1077.7	959.6	662.8	478.3	402.5	365.0	359.2	341.9	351.6	362.1
1018.2	50°	1009.5	890.4	650.3	438.0	371.7	334.3	328.5	317.0	329.5	340.0
973.0	52.5°	960.5	811.6	623.4	401.5	344.8	308.3	306.4	300.6	312.2	321.8
939.4	55°	918.3	730.0	580.2	369.8	320.8	286.2	288.2	285.3	294.9	302.6
919.2	57.5°	879.8	658.9	525.4	344.8	294.9	267.0	272.8	268.9	273.8	278.6
898.1	60°	833.7	586.9	460.1	317.0	264.1	247.8	254.5	244.0	243.0	244.9
859.7	62.5°	765.5	489.9	391.9	282.4	237.3	226.7	229.6	209.4	194.0	194.0
803.0	65°	670.4	393.8	328.5	244.0	206.5	197.9	195.9	167.1	146.0	144.1
741.5	67.5°	560.0	323.7	272.8	205.6	171.9	166.2	168.1	147.0	125.8	123.9
680.1	70°	456.3	268.0	220.0	164.3	132.6	138.3	147.0	125.8	105.7	102.8
608.0	72.5°	370.8	213.2	171.9	125.8	98.0	114.3	124.9	102.8	83.6	81.6
518.7	75°	286.2	156.6	122.9	85.5	71.1	88.4	98.0	74.9	59.6	56.7
401.5	77.5°	191.1	97.0	69.2	53.8	42.3	60.5	65.3	39.4	34.6	33.6
292.0	80°	116.2	45.1	29.8	25.9	14.4	22.1	25.9	16.3	18.3	19.2
155.6	82.5°	58.6	12.5	4.8	1.0	0.0	0.0	7.7	3.8	7.7	9.6
42.3	85°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.8
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: P950091  
 CATALOG NUMBER: GALN-SB4C-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1930.7	0°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
1696.3	2.5°	1750.1	1790.4	1828.8	1890.3	1953.7	2016.1	2079.5	2141.0	2163.1	2179.4
1464.8	5°	1548.4	1624.3	1712.6	1834.6	1965.2	2099.7	2236.1	2361.0	2417.6	2456.1
1246.8	7.5°	1339.9	1438.9	1565.7	1749.1	1953.7	2167.9	2382.1	2579.0	2670.3	2744.2
1041.2	10°	1133.4	1241.0	1401.4	1610.8	1887.4	2194.8	2490.6	2761.5	2879.7	2972.8
893.3	12.5°	951.9	1052.7	1220.8	1452.3	1783.7	2173.7	2553.1	2878.7	3018.0	3122.7
787.6	15°	824.1	895.2	1044.1	1293.8	1660.8	2105.5	2556.9	2934.4	3087.1	3196.6
743.4	17.5°	753.1	777.1	874.1	1132.5	1524.4	2016.1	2521.4	2953.6	3116.9	3218.7
704.1	20°	714.6	718.5	745.4	923.1	1349.5	1932.6	2487.8	2972.8	3144.8	3230.3
676.2	22.5°	683.9	683.9	690.6	755.0	1123.8	1832.7	2477.2	3006.4	3183.2	3236.0
644.5	25°	656.0	656.0	658.0	675.3	890.4	1680.0	2470.5	3058.3	3236.0	3250.4
612.8	27.5°	627.2	628.2	628.2	637.8	717.5	1472.5	2441.7	3125.6	3299.4	3269.6
582.1	30°	598.4	600.3	600.3	607.1	634.9	1229.5	2385.0	3206.2	3382.0	3294.6
551.3	32.5°	569.6	571.5	571.5	577.3	597.4	981.7	2313.9	3280.2	3465.6	3305.2
521.6	35°	539.8	542.7	540.8	548.5	569.6	780.9	2223.6	3354.2	3555.9	3338.8
492.8	37.5°	510.0	512.0	511.0	518.7	542.7	674.3	2118.9	3409.9	3678.8	3413.7
462.0	40°	480.3	479.3	479.3	487.9	513.9	643.6	1987.3	3498.2	3855.6	3545.3
431.3	42.5°	449.5	449.5	447.6	457.2	488.9	620.5	1861.5	3656.7	4113.0	3754.7
402.5	45°	421.7	420.7	416.9	425.5	464.9	580.2	1817.3	3952.6	4493.3	4093.8
373.6	47.5°	394.8	393.8	384.2	391.9	436.1	543.7	1982.5	4436.7	5020.7	4592.3
350.6	50°	370.8	371.7	353.5	360.2	407.3	515.8	2340.8	5064.9	5720.9	5263.7
331.4	52.5°	348.7	348.7	324.7	328.5	371.7	490.8	2681.8	5745.9	6644.9	6200.2
311.2	55°	326.6	324.7	297.8	299.7	336.2	455.3	2732.7	6410.6	7905.1	7609.3
289.1	57.5°	301.6	297.8	272.8	272.8	303.5	429.4	2368.7	6921.6	9468.9	9680.2
247.8	60°	270.9	268.0	251.7	246.9	277.6	452.4	1671.3	6981.1	10477.4	12434.0
196.9	62.5°	231.5	235.3	226.7	220.0	252.6	469.7	990.3	6501.8	10233.5	13310.0
152.7	65°	182.5	197.9	195.9	191.1	277.6	395.7	585.0	5581.6	9485.2	12603.1
133.5	67.5°	155.6	166.2	163.3	163.3	291.0	300.6	367.9	4360.8	8455.5	11764.5
111.4	70°	132.6	143.1	132.6	132.6	220.0	182.5	254.5	3044.9	7344.2	10836.7
89.3	72.5°	109.5	120.1	108.5	100.9	175.8	136.4	186.3	1902.8	6289.5	9870.4
63.4	75°	83.6	96.1	87.4	77.8	116.2	101.8	141.2	1105.6	5210.9	8445.0
38.4	77.5°	52.8	69.2	65.3	54.8	85.5	74.0	101.8	658.0	4020.8	6598.8
23.1	80°	32.7	35.5	36.5	34.6	49.0	49.9	69.2	374.6	2751.9	4599.0
14.4	82.5°	21.1	21.1	16.3	18.3	24.0	28.8	39.4	141.2	1617.5	2799.9
8.6	85°	15.4	13.4	8.6	8.6	11.5	14.4	15.4	43.2	656.0	1105.6
3.8	87.5°	7.7	6.7	2.9	3.8	5.8	4.8	3.8	1.9	165.2	353.5
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: P950091  
 CATALOG NUMBER: GALN-SB4C-927-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1930.7	0°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
2215.9	2.5°	2235.1	2264.9	2266.8	2266.8	2240.9	2239.9	2187.1	2181.4
2542.5	5°	2631.8	2651.1	2655.9	2646.3	2594.4	2556.0	2453.2	2431.1
2875.8	7.5°	2994.9	3033.3	3033.3	3010.3	2925.8	2847.0	2698.1	2642.4
3151.5	10°	3285.0	3329.2	3319.6	3272.5	3165.9	3057.4	2876.8	2803.8
3318.6	12.5°	3426.2	3471.3	3446.4	3392.6	3288.8	3174.5	2984.4	2901.8
3366.6	15°	3423.3	3410.8	3384.9	3378.2	3328.2	3241.8	3064.1	2973.8
3336.9	17.5°	3301.3	3195.7	3175.5	3242.7	3306.1	3285.0	3133.2	3048.7
3265.8	20°	3108.3	2923.8	2905.6	3034.3	3214.9	3307.1	3197.6	3119.8
3163.0	22.5°	2904.6	2705.8	2663.5	2805.7	3077.5	3313.8	3279.2	3201.4
3049.7	25°	2711.6	2511.8	2469.5	2602.1	2924.8	3302.3	3367.6	3301.3
2941.1	27.5°	2550.2	2357.1	2317.8	2450.3	2777.8	3269.6	3456.0	3408.9
2833.6	30°	2425.3	2246.7	2217.9	2345.6	2651.1	3229.3	3568.4	3542.4
2733.7	32.5°	2352.3	2221.7	2232.3	2337.0	2582.9	3185.1	3675.9	3688.4
2684.7	35°	2424.4	2430.1	2522.3	2565.6	2646.3	3178.4	3821.9	3870.9
2743.3	37.5°	2782.6	2982.4	3173.6	3138.0	2956.5	3256.2	4040.0	4131.2
2998.8	40°	3392.6	3802.7	4113.0	3977.5	3520.3	3494.4	4354.1	4490.5
3452.1	42.5°	4138.0	4833.4	5344.4	4981.3	4247.5	3911.3	4802.6	4976.5
4000.6	45°	4924.6	6104.1	6909.1	6154.1	5022.6	4495.3	5481.7	5618.1
4514.5	47.5°	5753.6	7648.7	8689.9	7454.7	5741.1	5160.0	6407.7	6439.4
5001.5	50°	6660.3	9342.1	10505.3	8754.2	6434.6	5921.6	7539.2	7502.7
5569.1	52.5°	7523.8	11083.5	12282.3	10059.6	7043.5	6866.8	8852.2	8777.3
6345.2	55°	8347.9	12824.0	14069.8	11314.0	7617.9	8115.5	10412.1	9958.7
7464.3	57.5°	9303.7	14388.7	15912.1	12574.3	8420.9	9736.9	12156.4	10644.6
9607.2	60°	10716.6	16166.6	17995.5	14301.3	9948.2	11440.8	12781.7	10513.9
12173.7	62.5°	12520.5	17801.4	19510.2	15993.7	11482.1	11761.7	11860.6	9507.3
11650.2	65°	12871.1	18215.4	19595.7	16446.1	11284.3	9977.0	9683.1	7642.0
10406.3	67.5°	11941.3	17467.2	18400.8	15603.8	9981.8	7710.2	7266.4	5544.2
9589.9	70°	10898.1	16040.8	16318.4	14171.6	8779.2	5671.0	4907.3	3557.8
9030.9	72.5°	9829.1	14138.0	13563.6	12307.2	7715.9	4129.3	3539.5	2529.1
8234.6	75°	8559.3	11635.8	10683.9	10225.8	6388.5	3240.8	2560.8	1745.3
7082.9	77.5°	6854.3	8190.4	7935.9	7926.3	4800.7	2367.7	1708.8	1094.0
5533.6	80°	4835.3	5315.6	5185.9	5969.7	3220.6	1717.4	1028.7	609.0
3851.7	82.5°	2340.8	2939.2	3017.0	3554.9	1566.6	1010.5	237.3	132.6
1506.1	85°	916.3	1417.7	1195.9	1349.5	439.9	281.4	5.8	0.0
247.8	87.5°	102.8	164.3	150.8	119.1	53.8	11.5	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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