

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: P950803

Luminaire Tested: **GALN-SB5A-927-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950803
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-SB5A-927-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 350mA 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: 10527 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

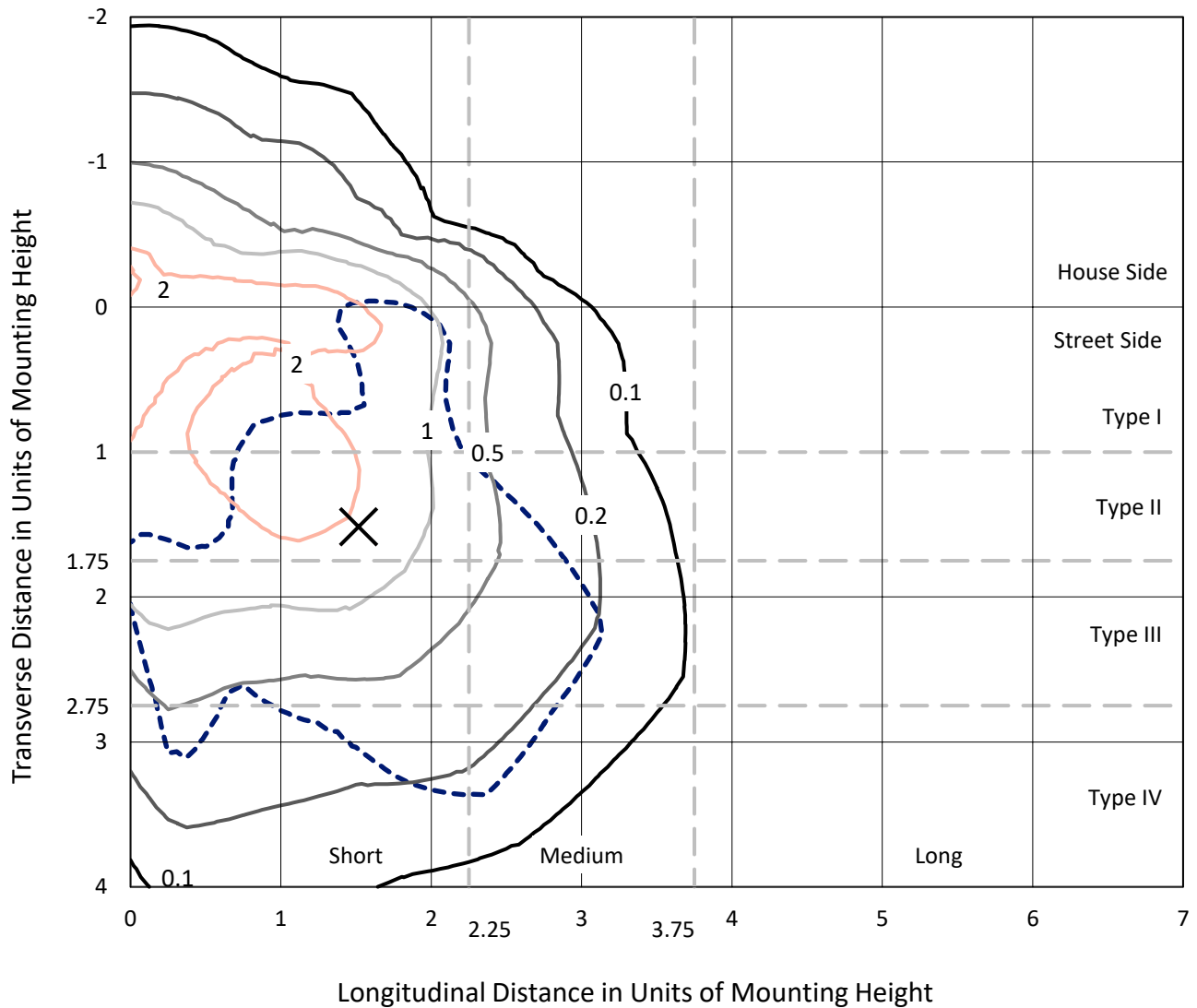
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950803
 CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

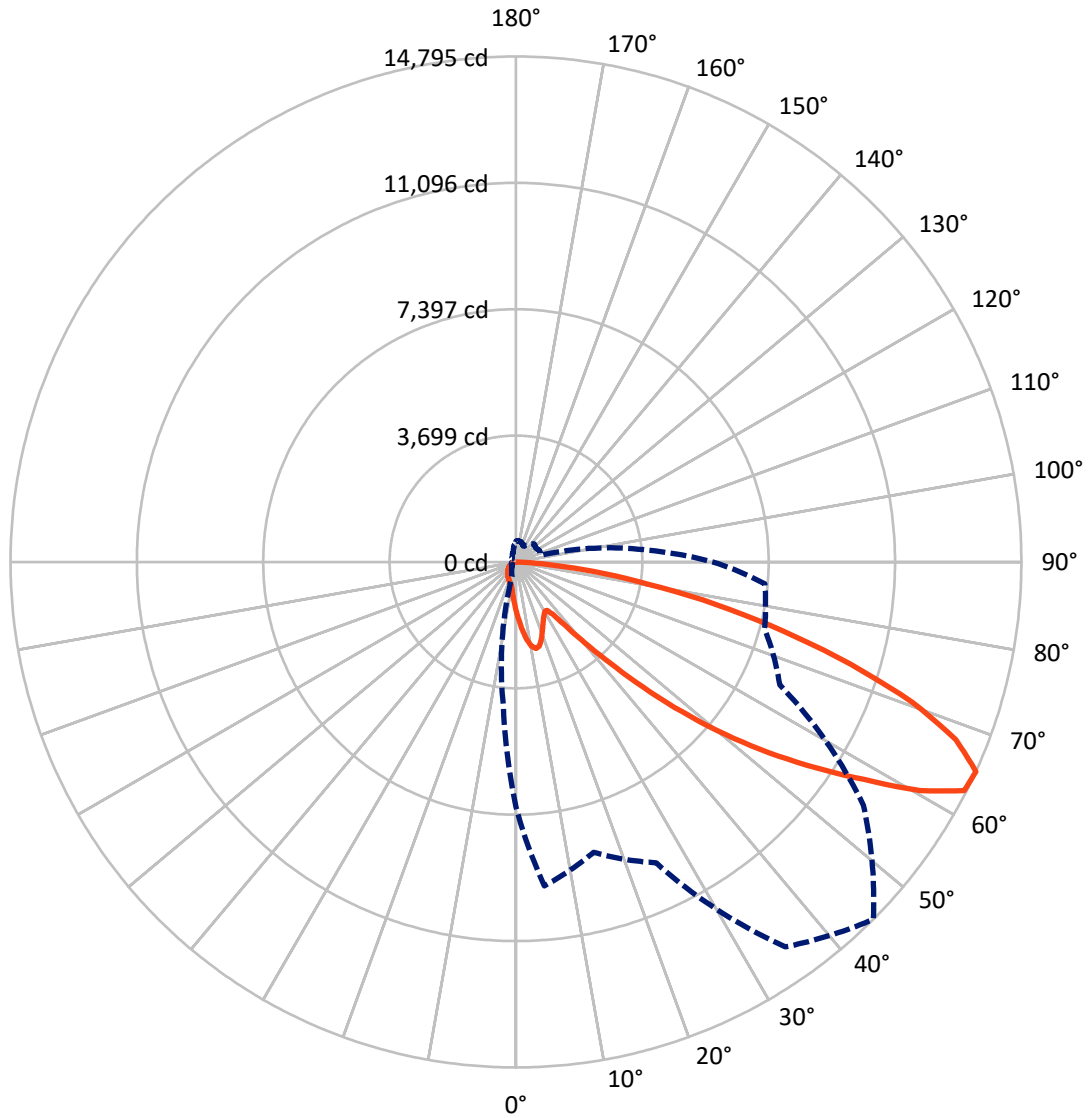
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P950803
CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950803
 CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2092.4	0.0	2092.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	8434.6	0.0	8434.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	10527.0	0.0	10527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	1.4
10°-20°	430.2	4.1
20°-30°	633.8	6.0
30°-40°	814.2	7.7
40°-50°	1316.9	12.5
50°-60°	2309.2	21.9
60°-70°	2889.5	27.4
70°-80°	1688.5	16.0
80°-90°	301.3	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°	10527.0	100.0
0°-180°	10527.0	100.0



REPORT NUMBER: P950803

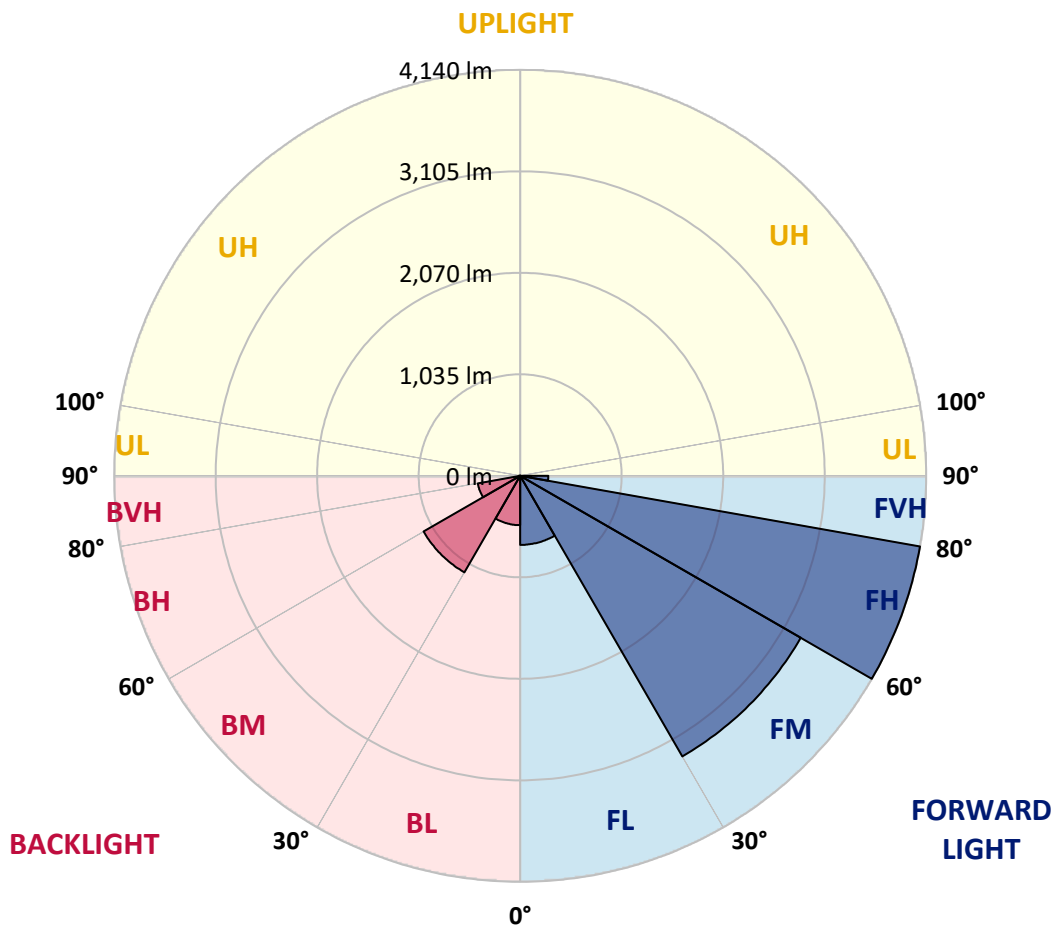
CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.4	6.7			
FM (30°-60°)	3303.5	31.4			
FH (60°-80°)	4139.5	39.3			G2/5000
FVH (80°-90°)	287.1	2.7			G3/500
BL (0°-30°)	503.1	4.8	B2/1000		
BM (30°-60°)	1136.8	10.8	B2/2500		
BH (60°-80°)	438.4	4.2	B1/500		G1/500
BVH (80°-90°)	14.1	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: P950803
 CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1633.2	1645.5	1673.0	1687.5	1710.0	1711.5	1711.5	1691.9	1691.2	1651.3
5°	1825.3	1854.3	1919.6	1987.0	2001.6	2005.2	1997.9	1958.8	1929.8	1852.2
7.5°	2016.1	2071.9	2171.2	2261.2	2290.2	2290.2	2272.8	2209.0	2149.5	2037.1
10°	2174.2	2244.5	2379.4	2480.2	2513.5	2506.3	2470.8	2390.3	2308.3	2172.0
12.5°	2278.6	2357.6	2505.6	2586.8	2620.9	2602.0	2561.4	2483.1	2396.8	2253.2
15°	2330.8	2413.5	2541.8	2584.6	2575.2	2555.6	2550.5	2512.8	2447.6	2313.4
17.5°	2353.3	2430.1	2519.3	2492.5	2412.7	2397.5	2448.3	2496.1	2480.2	2365.6
20°	2374.3	2438.8	2465.7	2346.7	2207.5	2193.7	2290.9	2427.2	2496.9	2414.2
22.5°	2403.3	2443.2	2388.1	2193.0	2042.9	2011.0	2118.3	2323.5	2501.9	2475.8
25°	2443.2	2454.1	2302.5	2047.2	1896.4	1864.5	1964.6	2208.2	2493.2	2542.6
27.5°	2491.1	2468.6	2220.6	1925.4	1779.6	1749.9	1850.0	2097.3	2468.6	2609.3
30°	2553.4	2487.4	2139.3	1831.1	1696.2	1674.5	1770.9	2001.6	2438.1	2694.1
32.5°	2616.5	2495.4	2063.9	1776.0	1677.4	1685.4	1764.4	1950.1	2404.8	2775.3
35°	2684.7	2520.8	2026.9	1830.4	1834.8	1904.4	1937.0	1997.9	2399.7	2885.6
37.5°	2777.5	2577.4	2071.2	2100.9	2251.7	2396.1	2369.2	2232.2	2458.4	3050.2
40°	2911.0	2676.7	2264.1	2561.4	2871.1	3105.3	3003.1	2657.9	2638.3	3287.3
42.5°	3105.3	2834.8	2606.4	3124.2	3649.2	4035.0	3760.9	3206.8	2953.0	3626.0
45°	3392.5	3090.8	3020.5	3718.1	4608.6	5216.4	4646.4	3792.1	3393.9	4138.7
47.5°	3790.6	3467.2	3408.4	4343.9	5774.8	6560.9	5628.3	4334.5	3895.8	4837.8
50°	4319.3	3974.1	3776.1	5028.5	7053.3	7931.5	6609.5	4858.1	4470.9	5692.1
52.5°	5016.9	4681.2	4204.7	5680.5	8368.1	9273.1	7595.0	5317.9	5184.5	6683.4
55°	5968.4	5745.0	4790.7	6302.7	9682.1	10622.7	8542.1	5751.6	6127.2	7861.2
57.5°	7149.0	7308.6	5635.5	7024.3	10863.5	12013.7	9493.6	6357.8	7351.4	9178.1
60°	7910.5	9387.7	7253.5	8091.1	12205.8	13586.6	10797.5	7510.9	8637.9	9650.2
62.5°	7726.3	10049.1	9191.2	9453.0	13440.1	14730.3	12075.3	8669.0	8880.1	8954.8
65°	7161.4	9515.4	8796.0	9717.7	13752.7	14794.8	12416.9	8519.7	7532.7	7310.7
67.5°	6383.9	8882.3	7856.8	9015.7	13187.8	13892.7	11780.9	7536.3	5821.2	5486.1
70°	5544.9	8181.7	7240.4	8228.1	12110.8	12320.4	10699.6	6628.3	4281.6	3705.0
72.5°	4748.6	7452.2	6818.3	7421.0	10674.2	10240.6	9292.0	5825.5	3117.6	2672.4
75°	3934.2	6376.0	6217.1	6462.3	8785.1	8066.4	7720.5	4823.3	2446.8	1933.4
77.5°	3035.7	4982.1	5347.6	5175.0	6183.8	5991.6	5984.4	3624.6	1787.6	1290.1
80°	2077.7	3472.3	4177.9	3650.7	4013.3	3915.4	4507.1	2431.6	1296.7	776.7
82.5°	1221.2	2114.0	2908.1	1767.3	2219.1	2277.9	2684.0	1182.8	762.9	179.1
85°	495.3	834.7	1137.1	691.8	1070.4	902.9	1018.9	332.1	212.5	4.4
87.5°	124.7	266.9	187.1	77.6	124.0	113.9	89.9	40.6	8.7	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: P950803
 CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1457.7	0°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
1646.9	2.5°	1618.6	1602.0	1560.6	1519.3	1485.9	1441.0	1411.2	1375.7	1341.6	1311.2
1835.5	5°	1789.8	1734.7	1659.3	1590.4	1520.0	1451.9	1384.4	1313.3	1248.1	1208.2
1995.0	7.5°	1929.0	1831.9	1731.8	1644.0	1559.2	1479.4	1390.2	1303.9	1201.7	1147.3
2116.9	10°	2032.7	1905.1	1773.8	1673.0	1587.5	1509.9	1434.4	1347.4	1224.1	1156.0
2190.8	12.5°	2100.9	1949.3	1795.6	1680.3	1584.6	1524.4	1491.0	1456.9	1334.4	1254.6
2245.2	15°	2148.0	1980.5	1810.8	1663.6	1546.1	1501.9	1535.2	1574.4	1496.1	1404.0
2301.8	17.5°	2199.5	2021.1	1817.4	1618.6	1471.4	1452.6	1538.9	1629.5	1625.9	1534.5
2355.5	20°	2253.9	2056.7	1813.0	1546.1	1380.8	1397.5	1507.7	1612.8	1657.1	1607.8
2417.1	22.5°	2309.8	2090.8	1796.3	1451.9	1295.9	1348.1	1458.4	1550.5	1602.7	1587.5
2492.5	25°	2380.1	2138.6	1771.7	1350.3	1225.6	1298.1	1401.1	1475.8	1512.0	1511.3
2573.7	27.5°	2464.2	2202.4	1758.6	1268.4	1175.5	1241.5	1332.9	1399.6	1425.0	1425.0
2674.5	30°	2562.1	2277.9	1744.1	1214.7	1146.5	1182.8	1253.9	1319.1	1344.5	1344.5
2784.8	32.5°	2670.9	2350.4	1709.3	1182.1	1124.8	1125.5	1170.5	1229.9	1260.4	1264.7
2922.6	35°	2801.4	2428.0	1633.2	1156.0	1099.4	1069.7	1091.4	1140.7	1177.0	1186.4
3119.1	37.5°	2972.6	2523.0	1524.4	1117.5	1060.2	1010.9	1016.0	1053.7	1093.6	1108.1
3390.3	40°	3202.5	2634.7	1411.2	1062.4	1005.1	946.4	944.2	971.8	1010.9	1026.9
3757.3	42.5°	3506.3	2768.8	1303.2	1009.5	938.4	878.2	874.6	896.3	930.4	947.1
4241.7	45°	3895.1	2933.4	1210.4	968.1	873.1	813.7	812.2	830.4	860.1	877.5
4861.7	47.5°	4435.3	3098.1	1147.3	946.4	821.7	760.7	763.6	779.6	806.4	818.8
5664.5	50°	5139.5	3148.1	1115.4	946.4	794.1	713.6	728.1	741.2	761.5	768.7
6626.9	52.5°	5815.4	2982.7	1086.4	952.2	797.7	673.7	704.9	714.3	731.7	734.6
7518.9	55°	6146.8	2564.3	1046.5	953.6	820.2	639.6	686.0	703.4	710.0	709.2
8036.7	57.5°	6032.9	2073.3	979.0	947.8	835.4	617.9	662.8	696.2	700.5	694.0
7938.0	60°	5633.4	1526.5	927.5	905.1	829.6	611.3	627.3	680.2	686.8	678.1
7178.0	62.5°	4963.3	1059.5	887.6	810.8	804.2	609.2	571.5	645.4	661.4	649.1
5769.7	65°	3907.4	748.4	764.4	710.7	749.1	597.6	513.4	603.4	625.1	606.3
4185.9	67.5°	2644.1	540.3	619.3	644.0	659.9	571.5	471.4	555.5	584.5	559.9
2686.1	70°	1427.9	379.3	409.0	542.4	560.6	526.5	433.7	506.9	540.3	513.4
1909.5	72.5°	843.4	272.7	286.5	435.8	467.0	463.4	391.6	450.3	491.0	459.1
1317.7	75°	464.9	184.2	204.5	316.2	379.3	357.5	336.5	381.5	422.8	391.6
826.0	77.5°	208.1	110.2	142.1	207.4	298.1	245.1	260.3	297.3	335.8	303.1
459.8	80°	80.5	61.6	94.3	113.1	216.8	135.6	167.5	219.0	246.6	220.5
100.1	82.5°	10.2	27.6	40.6	44.2	126.2	71.8	97.2	137.8	135.6	117.5
0.0	85°	0.0	5.1	5.8	2.9	54.4	26.1	31.9	45.0	42.1	31.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	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: P950803
 CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1457.7	0°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
1305.4	2.5°	1269.8	1243.7	1230.7	1219.8	1229.9	1235.7	1235.7	1260.4	1274.9	1280.7
1182.8	5°	1119.0	1070.4	1037.8	1018.2	1024.7	1032.0	1039.9	1071.1	1092.2	1105.9
1098.0	7.5°	1000.1	926.1	880.4	856.5	860.1	865.2	871.7	902.1	923.2	941.3
1082.0	10°	941.3	836.9	776.7	747.7	742.6	739.7	737.5	755.7	771.6	786.1
1147.3	12.5°	944.2	798.4	725.2	689.7	674.4	657.0	643.3	646.2	656.3	674.4
1264.0	15°	981.2	786.1	698.4	654.1	628.7	608.4	591.8	588.1	591.8	594.7
1397.5	17.5°	1031.2	784.7	675.2	620.0	593.9	577.3	562.0	557.0	557.7	561.3
1485.9	20°	1071.1	780.3	649.1	587.4	564.2	549.7	534.5	529.4	530.8	531.6
1494.6	22.5°	1092.2	773.8	620.0	554.8	535.2	520.7	506.9	506.2	506.2	510.5
1447.5	25°	1092.2	760.0	593.9	523.6	506.2	493.1	476.5	479.4	480.8	486.6
1374.3	27.5°	1066.0	733.9	572.9	496.8	478.6	465.6	450.3	454.0	456.2	462.7
1301.7	30°	1032.7	702.7	549.0	471.4	450.3	440.9	427.9	429.3	432.2	439.5
1234.3	32.5°	997.2	665.7	529.4	446.0	425.0	417.7	403.2	405.4	408.3	416.3
1167.6	35°	958.0	622.2	506.2	422.8	401.8	396.0	379.3	380.7	385.1	393.8
1095.8	37.5°	916.7	586.7	483.0	400.3	378.6	372.8	355.3	356.8	361.9	372.0
1020.4	40°	876.0	551.9	458.3	376.4	354.6	349.5	330.7	332.1	337.9	348.8
944.2	42.5°	831.8	525.0	426.4	351.7	328.5	323.4	306.0	308.2	314.7	325.6
873.9	45°	778.9	507.6	390.9	328.5	302.4	297.3	281.4	285.7	293.0	303.9
813.7	47.5°	724.5	500.4	361.1	303.9	275.6	271.2	258.2	265.4	273.4	282.1
762.2	50°	672.3	491.0	330.7	280.7	252.4	248.0	239.3	248.7	256.7	264.7
725.2	52.5°	612.8	470.7	303.1	260.3	232.8	231.3	227.0	235.7	242.9	250.2
693.3	55°	551.2	438.0	279.2	242.2	216.1	217.6	215.4	222.6	228.4	235.0
664.3	57.5°	497.5	396.7	260.3	222.6	201.6	206.0	203.1	206.7	210.3	218.3
629.5	60°	443.1	347.4	239.3	199.4	187.1	192.2	184.2	183.5	184.9	187.1
578.0	62.5°	369.9	295.9	213.2	179.1	171.1	173.3	158.1	146.5	146.5	148.7
506.2	65°	297.3	248.0	184.2	155.9	149.4	147.9	126.2	110.2	108.8	115.3
422.8	67.5°	244.4	206.0	155.2	129.8	125.5	126.9	111.0	95.0	93.6	100.8
344.5	70°	202.3	166.1	124.0	100.1	104.4	111.0	95.0	79.8	77.6	84.1
279.9	72.5°	161.0	129.8	95.0	74.0	86.3	94.3	77.6	63.1	61.6	67.4
216.1	75°	118.2	92.8	64.5	53.7	66.7	74.0	56.6	45.0	42.8	47.9
144.3	77.5°	73.2	52.2	40.6	31.9	45.7	49.3	29.7	26.1	25.4	29.0
87.7	80°	34.1	22.5	19.6	10.9	16.7	19.6	12.3	13.8	14.5	17.4
44.2	82.5°	9.4	3.6	0.7	0.0	0.0	5.8	2.9	5.8	7.3	10.9
3.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.6	6.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9
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: P950803
 CATALOG NUMBER: GALN-SB5A-927-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1457.7	0°	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7	1457.7
1321.3	2.5°	1351.8	1380.8	1427.2	1475.1	1522.2	1570.1	1616.5	1633.2
1169.0	5°	1226.3	1293.0	1385.1	1483.8	1585.3	1688.3	1782.5	1825.3
1011.7	7.5°	1086.4	1182.1	1320.6	1475.1	1636.8	1798.5	1947.2	2016.1
855.7	10°	937.0	1058.1	1216.2	1425.0	1657.1	1880.4	2085.0	2174.2
718.7	12.5°	794.8	921.7	1096.5	1346.7	1641.1	1927.6	2173.4	2278.6
622.2	15°	675.9	788.3	976.8	1253.9	1589.6	1930.5	2215.5	2330.8
568.6	17.5°	586.7	659.9	855.0	1150.9	1522.2	1903.7	2230.0	2353.3
539.5	20°	542.4	562.8	696.9	1018.9	1459.1	1878.3	2244.5	2374.3
516.3	22.5°	516.3	521.4	570.0	848.5	1383.7	1870.3	2269.9	2403.3
495.3	25°	495.3	496.8	509.8	672.3	1268.4	1865.2	2309.0	2443.2
473.6	27.5°	474.3	474.3	481.5	541.7	1111.7	1843.5	2359.8	2491.1
451.8	30°	453.3	453.3	458.3	479.4	928.3	1800.7	2420.7	2553.4
430.0	32.5°	431.5	431.5	435.8	451.1	741.2	1747.0	2476.6	2616.5
407.6	35°	409.7	408.3	414.1	430.0	589.6	1678.8	2532.4	2684.7
385.1	37.5°	386.5	385.8	391.6	409.7	509.1	1599.8	2574.5	2777.5
362.6	40°	361.9	361.9	368.4	388.0	485.9	1500.4	2641.2	2911.0
339.4	42.5°	339.4	337.9	345.2	369.1	468.5	1405.4	2760.8	3105.3
318.4	45°	317.6	314.7	321.3	351.0	438.0	1372.1	2984.2	3392.5
298.1	47.5°	297.3	290.1	295.9	329.2	410.5	1496.8	3349.7	3790.6
279.9	50°	280.7	266.9	272.0	307.5	389.4	1767.3	3824.0	4319.3
263.2	52.5°	263.2	245.1	248.0	280.7	370.6	2024.8	4338.1	5016.9
246.6	55°	245.1	224.8	226.3	253.8	343.7	2063.2	4840.0	5968.4
227.7	57.5°	224.8	206.0	206.0	229.2	324.2	1788.3	5225.8	7149.0
204.5	60°	202.3	190.0	186.4	209.6	341.6	1261.8	5270.8	7910.5
174.8	62.5°	177.7	171.1	166.1	190.7	354.6	747.7	4908.9	7726.3
137.8	65°	149.4	147.9	144.3	209.6	298.8	441.6	4214.1	7161.4
117.5	67.5°	125.5	123.3	123.3	219.7	227.0	277.8	3292.4	6383.9
100.1	70°	108.1	100.1	100.1	166.1	137.8	192.2	2298.9	5544.9
82.7	72.5°	90.7	81.9	76.1	132.7	103.0	140.7	1436.6	4748.6
63.1	75°	72.5	66.0	58.7	87.7	76.9	106.6	834.7	3934.2
39.9	77.5°	52.2	49.3	41.3	64.5	55.8	76.9	496.8	3035.7
24.7	80°	26.8	27.6	26.1	37.0	37.7	52.2	282.8	2077.7
16.0	82.5°	16.0	12.3	13.8	18.1	21.8	29.7	106.6	1221.2
11.6	85°	10.2	6.5	6.5	8.7	10.9	11.6	32.6	495.3
5.8	87.5°	5.1	2.2	2.9	4.4	3.6	2.9	1.5	124.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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