

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: P949438

Luminaire Tested: **GALN-SB4A-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949438
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-SB4A-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 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: 9942 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

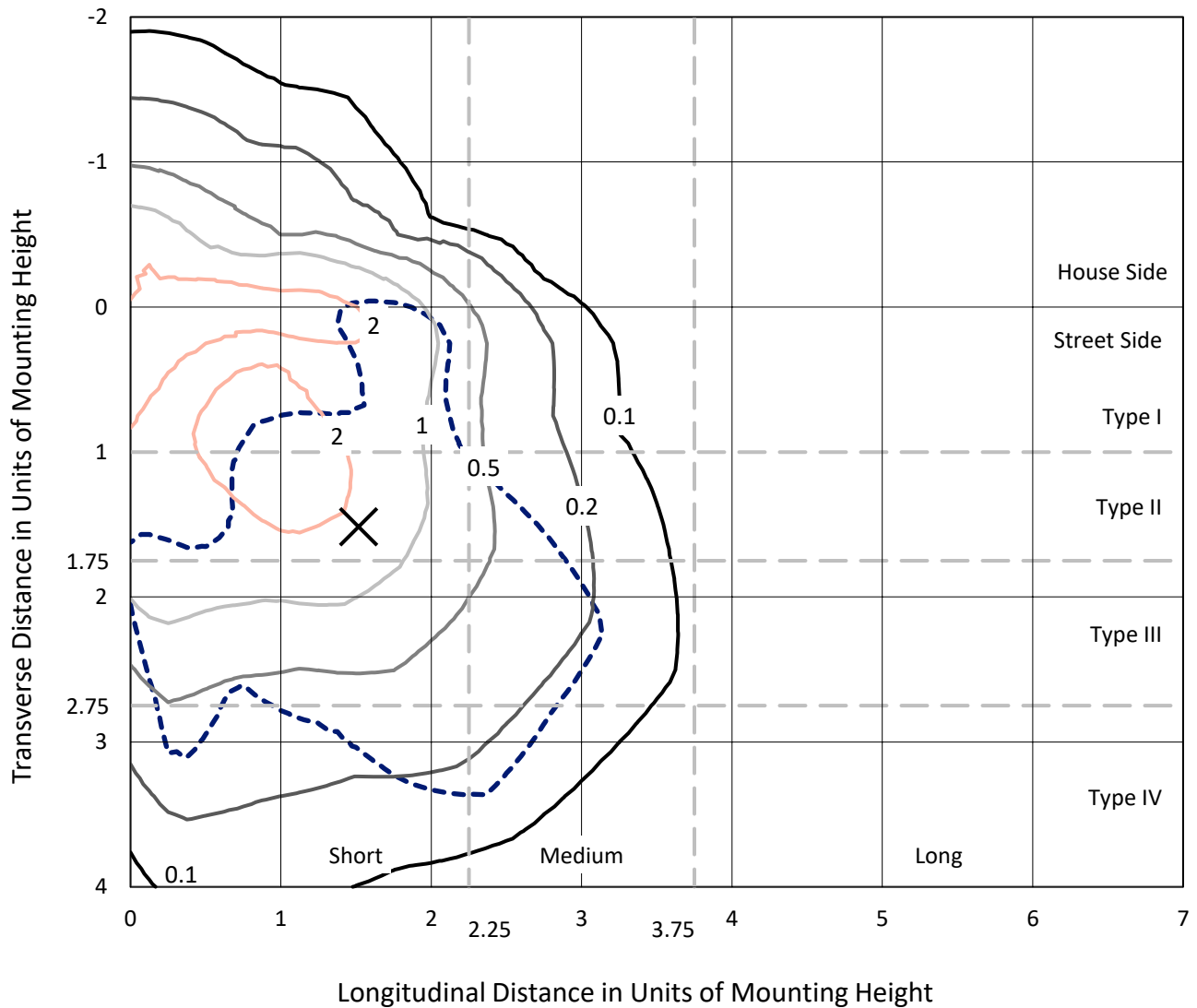
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949438
 CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

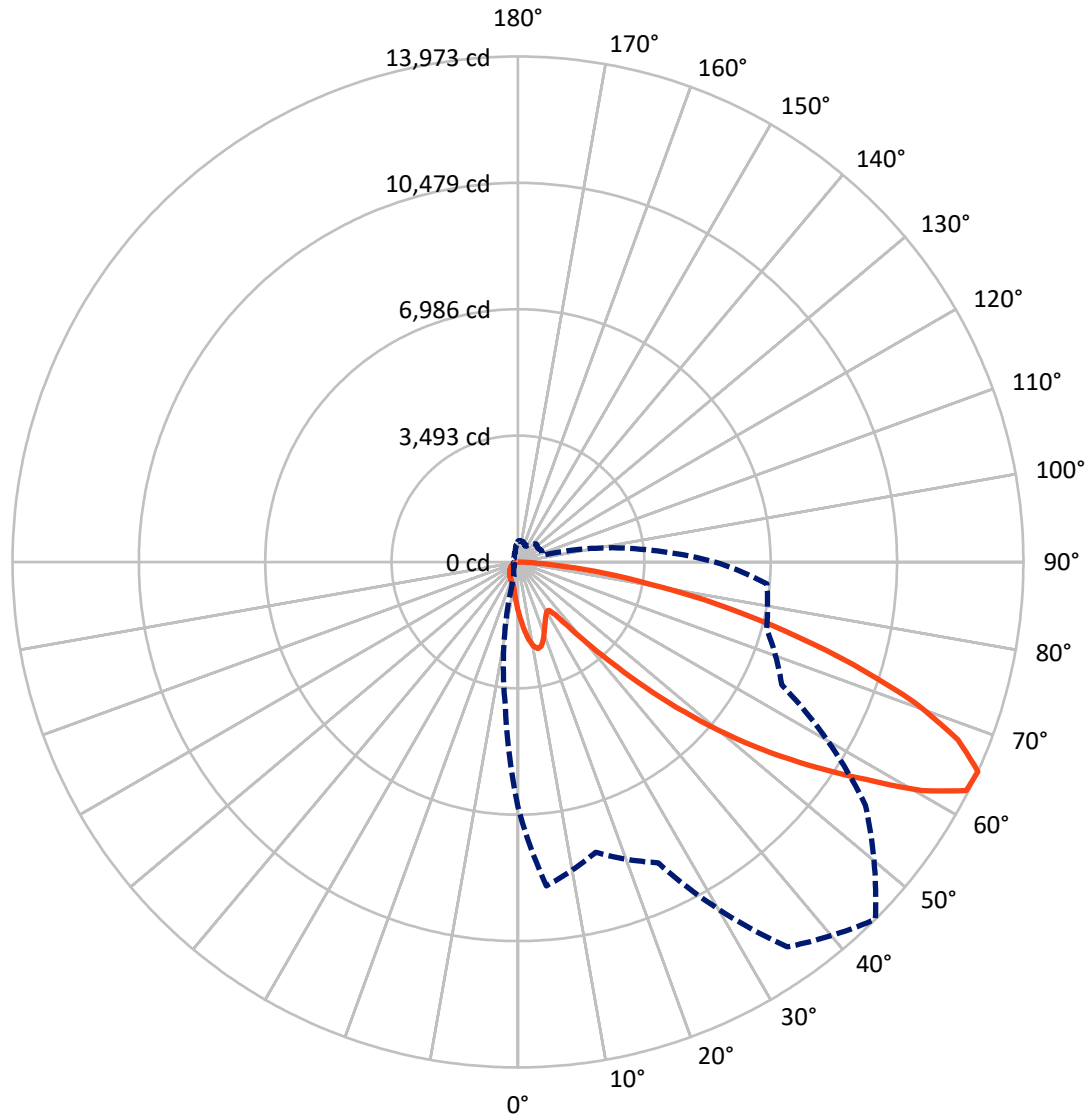
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P949438
CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P949438
 CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1976.2	0.0	1976.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	7965.8	0.0	7965.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	9942.0	0.0	9942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.4
10°-20°	406.3	4.1
20°-30°	598.6	6.0
30°-40°	769.0	7.7
40°-50°	1243.7	12.5
50°-60°	2180.9	21.9
60°-70°	2728.9	27.4
70°-80°	1594.6	16.0
80°-90°	284.5	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°	9942.0	100.0
0°-180°	9942.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949438

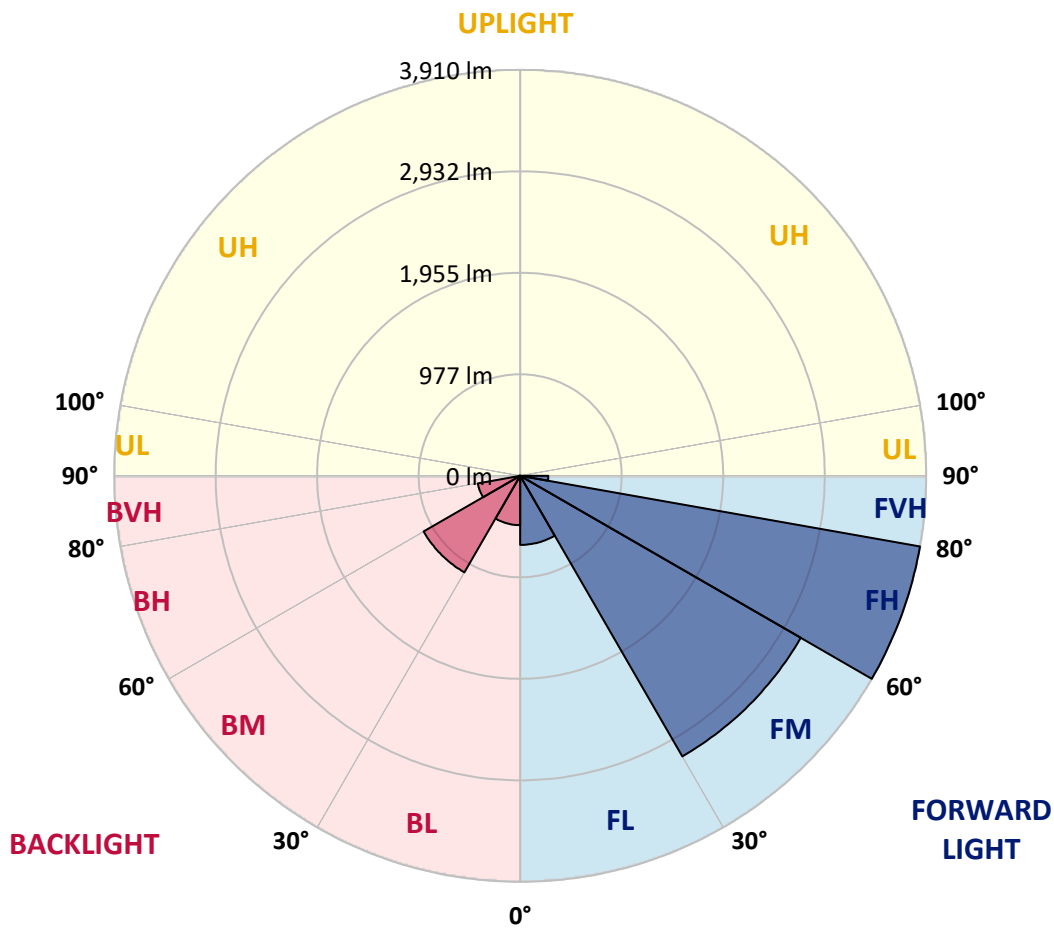
CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.2	6.7			
FM (30°-60°)	3119.9	31.4			
FH (60°-80°)	3909.5	39.3			G2/5000
FVH (80°-90°)	271.2	2.7			G3/500
BL (0°-30°)	475.2	4.8	B1/500		
BM (30°-60°)	1073.6	10.8	B2/2500		
BH (60°-80°)	414.0	4.2	B1/500		G1/500
BVH (80°-90°)	13.3	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: P949438
 CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
2.5°	1542.4	1554.0	1580.1	1593.8	1615.0	1616.4	1616.4	1597.9	1597.2	1559.5
5°	1723.9	1751.3	1812.9	1876.6	1890.3	1893.7	1886.9	1849.9	1822.5	1749.2
7.5°	1904.0	1956.8	2050.6	2135.5	2162.9	2162.9	2146.5	2086.2	2030.0	1923.9
10°	2053.3	2119.8	2247.2	2342.4	2373.9	2367.0	2333.5	2257.4	2180.0	2051.3
12.5°	2152.0	2226.6	2366.3	2443.0	2475.2	2457.4	2419.1	2345.1	2263.6	2128.0
15°	2201.3	2279.3	2400.6	2441.0	2432.1	2413.6	2408.8	2373.2	2311.5	2184.8
17.5°	2222.5	2295.1	2379.3	2354.0	2278.7	2264.3	2312.2	2357.4	2342.4	2234.1
20°	2242.4	2303.3	2328.7	2216.3	2084.8	2071.8	2163.6	2292.4	2358.1	2280.0
22.5°	2269.8	2307.4	2255.4	2071.1	1929.4	1899.2	2000.6	2194.4	2362.9	2338.2
25°	2307.4	2317.7	2174.6	1933.5	1791.0	1760.9	1855.4	2085.5	2354.7	2401.3
27.5°	2352.6	2331.4	2097.2	1818.4	1680.7	1652.7	1747.2	1980.7	2331.4	2464.3
30°	2411.5	2349.2	2020.5	1729.4	1602.0	1581.4	1672.5	1890.3	2302.6	2544.4
32.5°	2471.1	2356.7	1949.2	1677.3	1584.2	1591.7	1666.4	1841.7	2271.1	2621.1
35°	2535.5	2380.7	1914.3	1728.7	1732.8	1798.5	1829.4	1886.9	2266.3	2725.2
37.5°	2623.2	2434.1	1956.1	1984.2	2126.6	2262.9	2237.6	2108.1	2321.8	2880.7
40°	2749.2	2528.0	2138.3	2419.1	2711.5	2932.7	2836.2	2510.2	2491.7	3104.7
42.5°	2932.7	2677.3	2461.5	2950.5	3446.4	3810.8	3551.9	3028.6	2788.9	3424.5
45°	3204.0	2919.0	2852.6	3511.5	4352.5	4926.5	4388.2	3581.3	3205.3	3908.7
47.5°	3580.0	3274.5	3219.0	4102.6	5453.9	6196.3	5315.5	4093.6	3679.3	4569.0
50°	4079.3	3753.3	3566.3	4749.1	6661.3	7490.8	6242.2	4588.1	4222.4	5375.8
52.5°	4738.1	4421.0	3971.0	5364.8	7903.1	8757.8	7173.0	5022.4	4896.3	6312.0
55°	5636.7	5425.8	4524.4	5952.5	9144.1	10032.4	8067.4	5431.9	5786.7	7424.3
57.5°	6751.7	6902.4	5322.4	6633.9	10259.8	11346.1	8966.0	6004.5	6942.8	8668.1
60°	7470.9	8866.0	6850.4	7641.4	11527.6	12831.6	10197.5	7093.5	8157.8	9114.0
62.5°	7296.9	9490.7	8680.4	8927.7	12693.3	13911.7	11404.3	8187.3	8386.6	8457.1
65°	6763.4	8986.6	8307.2	9177.7	12988.4	13972.6	11726.9	8046.2	7114.1	6904.5
67.5°	6029.2	8388.7	7420.2	8514.7	12454.9	13120.6	11126.2	7117.5	5497.7	5181.3
70°	5236.7	7727.0	6838.0	7770.9	11437.8	11635.8	10105.0	6260.0	4043.6	3499.2
72.5°	4484.7	7038.0	6439.4	7008.6	10081.0	9671.5	8775.6	5501.8	2944.4	2523.9
75°	3715.6	6021.6	5871.6	6103.1	8296.9	7618.1	7291.4	4555.3	2310.9	1825.9
77.5°	2867.0	4705.3	5050.5	4887.4	5840.1	5658.6	5651.8	3423.1	1688.3	1218.4
80°	1962.2	3279.3	3945.7	3447.8	3790.2	3697.8	4256.7	2296.5	1224.6	733.5
82.5°	1153.4	1996.5	2746.4	1669.1	2095.8	2151.3	2534.8	1117.1	720.5	169.2
85°	467.8	788.3	1073.9	653.4	1010.9	852.7	962.3	313.7	200.7	4.1
87.5°	117.8	252.0	176.7	73.3	117.1	107.5	84.9	38.4	8.2	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: P949438
 CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1376.6	0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
1555.4	2.5°	1528.7	1512.9	1473.9	1434.9	1403.4	1360.9	1332.8	1299.3	1267.1	1238.3
1733.5	5°	1690.3	1638.3	1567.1	1502.0	1435.6	1371.2	1307.5	1240.4	1178.7	1141.0
1884.2	7.5°	1821.8	1730.1	1635.5	1552.7	1472.5	1397.2	1313.0	1231.5	1134.9	1083.5
1999.2	10°	1919.8	1799.2	1675.3	1580.1	1499.2	1426.0	1354.7	1272.5	1156.1	1091.7
2069.1	12.5°	1984.2	1841.0	1695.8	1586.9	1496.5	1439.7	1408.2	1376.0	1260.2	1184.9
2120.5	15°	2028.7	1870.5	1710.2	1571.2	1460.2	1418.4	1449.9	1486.9	1412.9	1326.0
2173.9	17.5°	2077.3	1908.8	1716.4	1528.7	1389.7	1371.9	1453.4	1539.0	1535.5	1449.2
2224.6	20°	2128.7	1942.4	1712.2	1460.2	1304.0	1319.8	1423.9	1523.2	1565.0	1518.4
2282.8	22.5°	2181.4	1974.6	1696.5	1371.2	1223.9	1273.2	1377.3	1464.3	1513.6	1499.2
2354.0	25°	2247.8	2019.8	1673.2	1275.3	1157.5	1226.0	1323.2	1393.8	1428.0	1427.3
2430.7	27.5°	2327.3	2080.0	1660.9	1197.9	1110.2	1172.5	1258.8	1321.9	1345.8	1345.8
2525.9	30°	2419.8	2151.3	1647.2	1147.2	1082.8	1117.1	1184.2	1245.8	1269.8	1269.8
2630.0	32.5°	2522.5	2219.8	1614.3	1116.4	1062.3	1063.0	1105.4	1161.6	1190.4	1194.5
2760.1	35°	2645.8	2293.0	1542.4	1091.7	1038.3	1010.2	1030.8	1077.3	1111.6	1120.5
2945.8	37.5°	2807.4	2382.8	1439.7	1055.4	1001.3	954.8	959.5	995.2	1032.8	1046.5
3201.9	40°	3024.5	2488.2	1332.8	1003.4	949.3	893.8	891.7	917.8	954.8	969.8
3548.5	42.5°	3311.5	2614.9	1230.8	953.4	886.3	829.4	826.0	846.5	878.7	894.5
4006.0	45°	3678.6	2770.4	1143.1	914.3	824.6	768.5	767.1	784.2	812.3	828.7
4591.6	47.5°	4188.8	2925.9	1083.5	893.8	776.0	718.5	721.2	736.3	761.6	773.3
5349.8	50°	4853.9	2973.2	1053.4	893.8	750.0	673.9	687.6	700.0	719.1	726.0
6258.6	52.5°	5492.2	2817.0	1026.0	899.3	753.4	636.3	665.7	674.6	691.1	693.8
7101.0	55°	5805.2	2421.8	988.3	900.6	774.6	604.1	647.9	664.4	670.5	669.8
7590.1	57.5°	5697.7	1958.1	924.6	895.2	789.0	583.5	626.0	657.5	661.6	655.4
7496.9	60°	5320.3	1441.7	876.0	854.8	783.5	577.4	592.4	642.4	648.6	640.4
6779.1	62.5°	4687.5	1000.6	838.3	765.7	759.6	575.3	539.7	609.6	624.6	613.0
5449.1	65°	3690.2	706.8	721.9	671.2	707.5	564.4	484.9	569.8	590.4	572.6
3953.2	67.5°	2497.1	510.3	584.9	608.2	623.3	539.7	445.2	524.6	552.0	528.7
2536.9	70°	1348.6	358.2	386.3	512.3	529.4	497.2	409.6	478.7	510.3	484.9
1803.3	72.5°	796.5	257.5	270.5	411.6	441.1	437.7	369.8	425.3	463.7	433.5
1244.5	75°	439.0	174.0	193.1	298.6	358.2	337.7	317.8	360.3	399.3	369.8
780.1	77.5°	196.6	104.1	134.2	195.9	281.5	231.5	245.9	280.8	317.1	286.3
434.2	80°	76.0	58.2	89.0	106.8	204.8	128.1	158.2	206.8	232.9	208.2
94.5	82.5°	9.6	26.0	38.4	41.8	119.2	67.8	91.8	130.1	128.1	111.0
0.0	85°	0.0	4.8	5.5	2.7	51.4	24.7	30.1	42.5	39.7	30.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	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: P949438
 CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1376.6	0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
1232.8	2.5°	1199.3	1174.6	1162.3	1152.0	1161.6	1167.1	1167.1	1190.4	1204.1	1209.5
1117.1	5°	1056.8	1010.9	980.1	961.6	967.8	974.6	982.1	1011.6	1031.5	1044.5
1036.9	7.5°	944.5	874.6	831.5	808.9	812.3	817.1	823.2	852.0	871.9	889.0
1021.9	10°	889.0	790.4	733.5	706.1	701.3	698.6	696.5	713.7	728.7	742.4
1083.5	12.5°	891.7	754.1	684.9	651.3	637.0	620.5	607.5	610.2	619.8	637.0
1193.8	15°	926.7	742.4	659.6	617.8	593.8	574.6	558.9	555.5	558.9	561.6
1319.8	17.5°	973.9	741.1	637.6	585.6	560.9	545.2	530.8	526.0	526.7	530.1
1403.4	20°	1011.6	737.0	613.0	554.8	532.9	519.2	504.8	500.0	501.3	502.0
1411.6	22.5°	1031.5	730.8	585.6	523.9	505.5	491.8	478.7	478.1	478.1	482.2
1367.1	25°	1031.5	717.8	560.9	494.5	478.1	465.7	450.0	452.7	454.1	459.6
1297.9	27.5°	1006.8	693.1	541.1	469.2	452.0	439.7	425.3	428.7	430.8	437.0
1229.4	30°	975.3	663.7	518.5	445.2	425.3	416.4	404.1	405.5	408.2	415.0
1165.7	32.5°	941.7	628.7	500.0	421.2	401.4	394.5	380.8	382.9	385.6	393.1
1102.7	35°	904.8	587.6	478.1	399.3	379.4	374.0	358.2	359.6	363.7	371.9
1034.9	37.5°	865.7	554.1	456.1	378.1	357.5	352.0	335.6	337.0	341.8	351.4
963.7	40°	827.4	521.2	432.9	355.5	334.9	330.1	312.3	313.7	319.2	329.4
891.7	42.5°	785.6	495.9	402.7	332.2	310.3	305.5	289.0	291.1	297.2	307.5
825.3	45°	735.6	479.4	369.2	310.3	285.6	280.8	265.7	269.9	276.7	287.0
768.5	47.5°	684.2	472.6	341.1	287.0	260.3	256.2	243.8	250.7	258.2	266.4
719.8	50°	634.9	463.7	312.3	265.1	238.3	234.2	226.0	234.9	242.5	250.0
684.9	52.5°	578.7	444.5	286.3	245.9	219.9	218.5	214.4	222.6	229.4	236.3
654.8	55°	520.5	413.7	263.7	228.8	204.1	205.5	203.4	210.3	215.7	221.9
627.4	57.5°	469.8	374.6	245.9	210.3	190.4	194.5	191.8	195.2	198.6	206.2
594.5	60°	418.5	328.1	226.0	188.3	176.7	181.5	174.0	173.3	174.6	176.7
545.9	62.5°	349.3	279.4	201.4	169.2	161.6	163.7	149.3	138.3	138.3	140.4
478.1	65°	280.8	234.2	174.0	147.3	141.1	139.7	119.2	104.1	102.7	108.9
399.3	67.5°	230.8	194.5	146.6	122.6	118.5	119.9	104.8	89.7	88.4	95.2
325.3	70°	191.1	156.8	117.1	94.5	98.6	104.8	89.7	75.3	73.3	79.4
264.4	72.5°	152.0	122.6	89.7	69.9	81.5	89.0	73.3	59.6	58.2	63.7
204.1	75°	111.6	87.7	61.0	50.7	63.0	69.9	53.4	42.5	40.4	45.2
136.3	77.5°	69.2	49.3	38.4	30.1	43.1	46.6	28.1	24.7	24.0	27.4
82.9	80°	32.2	21.2	18.5	10.3	15.8	18.5	11.6	13.0	13.7	16.4
41.8	82.5°	8.9	3.4	0.7	0.0	0.0	5.5	2.7	5.5	6.8	10.3
3.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.4	6.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
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: P949438
 CATALOG NUMBER: GALN-SB4A-940-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1376.6	0°	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6	1376.6
1247.9	2.5°	1276.7	1304.0	1347.9	1393.1	1437.6	1482.8	1526.6	1542.4
1104.1	5°	1158.2	1221.2	1308.2	1401.3	1497.2	1594.4	1683.5	1723.9
955.4	7.5°	1026.0	1116.4	1247.2	1393.1	1545.8	1698.6	1839.0	1904.0
808.2	10°	884.9	999.3	1148.6	1345.8	1565.0	1775.9	1969.1	2053.3
678.7	12.5°	750.7	870.5	1035.6	1271.9	1549.9	1820.5	2052.6	2152.0
587.6	15°	638.3	744.5	922.6	1184.2	1501.3	1823.2	2092.4	2201.3
537.0	17.5°	554.1	623.3	807.5	1086.9	1437.6	1797.9	2106.1	2222.5
509.6	20°	512.3	531.5	658.2	962.3	1378.0	1773.9	2119.8	2242.4
487.6	22.5°	487.6	492.4	538.3	801.3	1306.8	1766.4	2143.7	2269.8
467.8	25°	467.8	469.2	481.5	634.9	1197.9	1761.6	2180.7	2307.4
447.2	27.5°	447.9	447.9	454.8	511.6	1050.0	1741.0	2228.7	2352.6
426.7	30°	428.1	428.1	432.9	452.7	876.7	1700.6	2286.2	2411.5
406.1	32.5°	407.5	407.5	411.6	426.0	700.0	1649.9	2338.9	2471.1
384.9	35°	387.0	385.6	391.1	406.1	556.8	1585.5	2391.7	2535.5
363.7	37.5°	365.1	364.4	369.8	387.0	480.8	1510.9	2431.4	2623.2
342.4	40°	341.8	341.8	347.9	366.4	458.9	1417.1	2494.4	2749.2
320.5	42.5°	320.5	319.2	326.0	348.6	442.4	1327.3	2607.4	2932.7
300.7	45°	300.0	297.2	303.4	331.5	413.7	1295.8	2818.4	3204.0
281.5	47.5°	280.8	274.0	279.4	310.9	387.7	1413.6	3163.6	3580.0
264.4	50°	265.1	252.0	256.8	290.4	367.8	1669.1	3611.5	4079.3
248.6	52.5°	248.6	231.5	234.2	265.1	350.0	1912.2	4097.1	4738.1
232.9	55°	231.5	212.3	213.7	239.7	324.6	1948.5	4571.0	5636.7
215.1	57.5°	212.3	194.5	194.5	216.4	306.2	1689.0	4935.4	6751.7
193.1	60°	191.1	179.4	176.0	197.9	322.6	1191.7	4977.9	7470.9
165.1	62.5°	167.8	161.6	156.8	180.1	334.9	706.1	4636.1	7296.9
130.1	65°	141.1	139.7	136.3	197.9	282.2	417.1	3980.0	6763.4
111.0	67.5°	118.5	116.4	116.4	207.5	214.4	262.3	3109.4	6029.2
94.5	70°	102.1	94.5	94.5	156.8	130.1	181.5	2171.1	5236.7
78.1	72.5°	85.6	77.4	71.9	125.3	97.3	132.9	1356.8	4484.7
59.6	75°	68.5	62.3	55.5	82.9	72.6	100.7	788.3	3715.6
37.7	77.5°	49.3	46.6	39.0	61.0	52.7	72.6	469.2	2867.0
23.3	80°	25.3	26.0	24.7	34.9	35.6	49.3	267.1	1962.2
15.1	82.5°	15.1	11.6	13.0	17.1	20.5	28.1	100.7	1153.4
11.0	85°	9.6	6.2	6.2	8.2	10.3	11.0	30.8	467.8
5.5	87.5°	4.8	2.1	2.7	4.1	3.4	2.7	1.4	117.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)