

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: P946120

Luminaire Tested: **GALN-SB1D-840-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946120
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-SB1D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7431 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

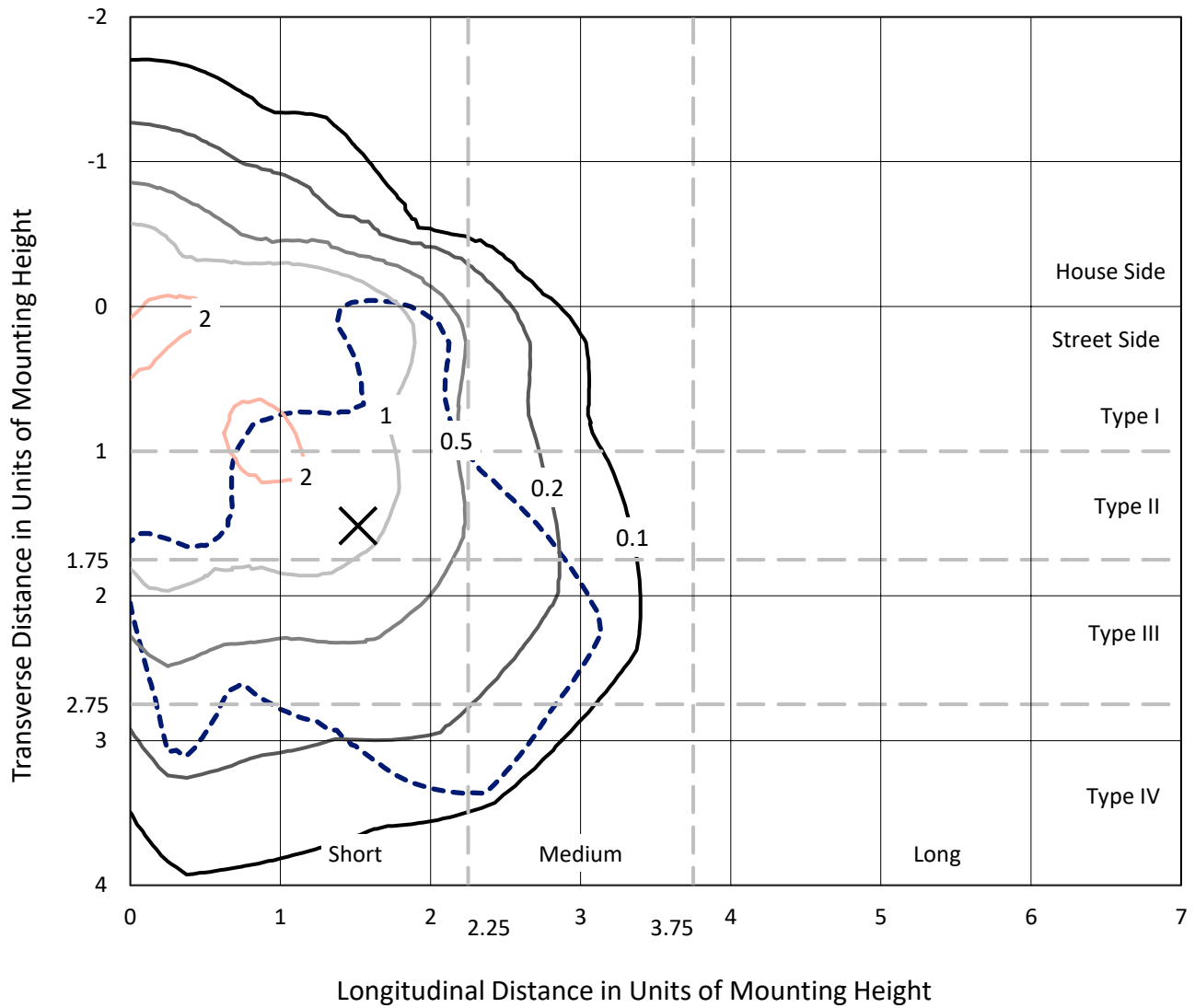
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946120
 CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

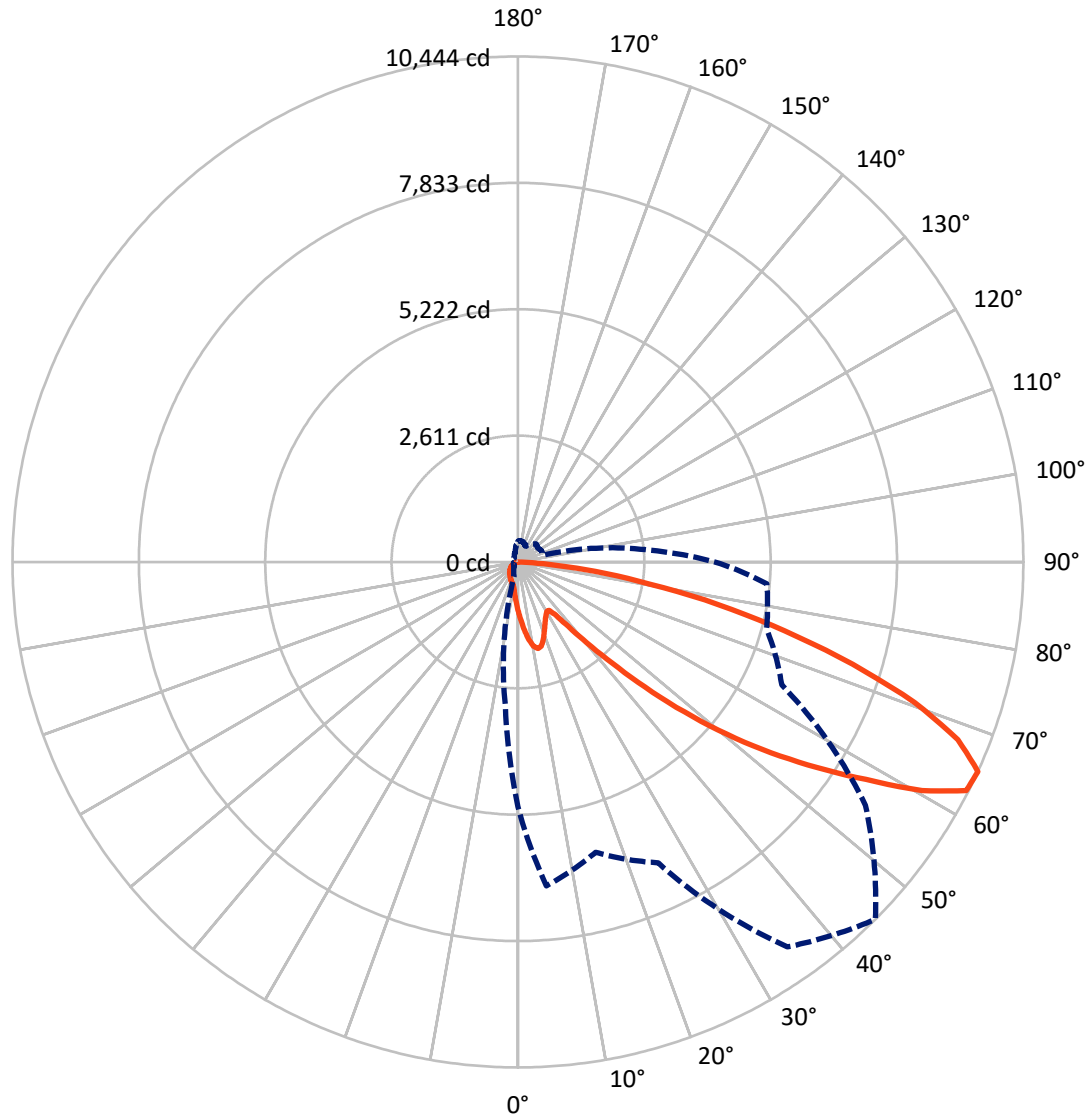
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P946120
CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946120
 CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.0	0.0	1477.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	5953.9	0.0	5953.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	7431.0	0.0	7431.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.4
10°-20°	303.7	4.1
20°-30°	447.4	6.0
30°-40°	574.8	7.7
40°-50°	929.6	12.5
50°-60°	1630.1	21.9
60°-70°	2039.7	27.4
70°-80°	1191.9	16.0
80°-90°	212.7	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°	7431.0	100.0
0°-180°	7431.0	100.0



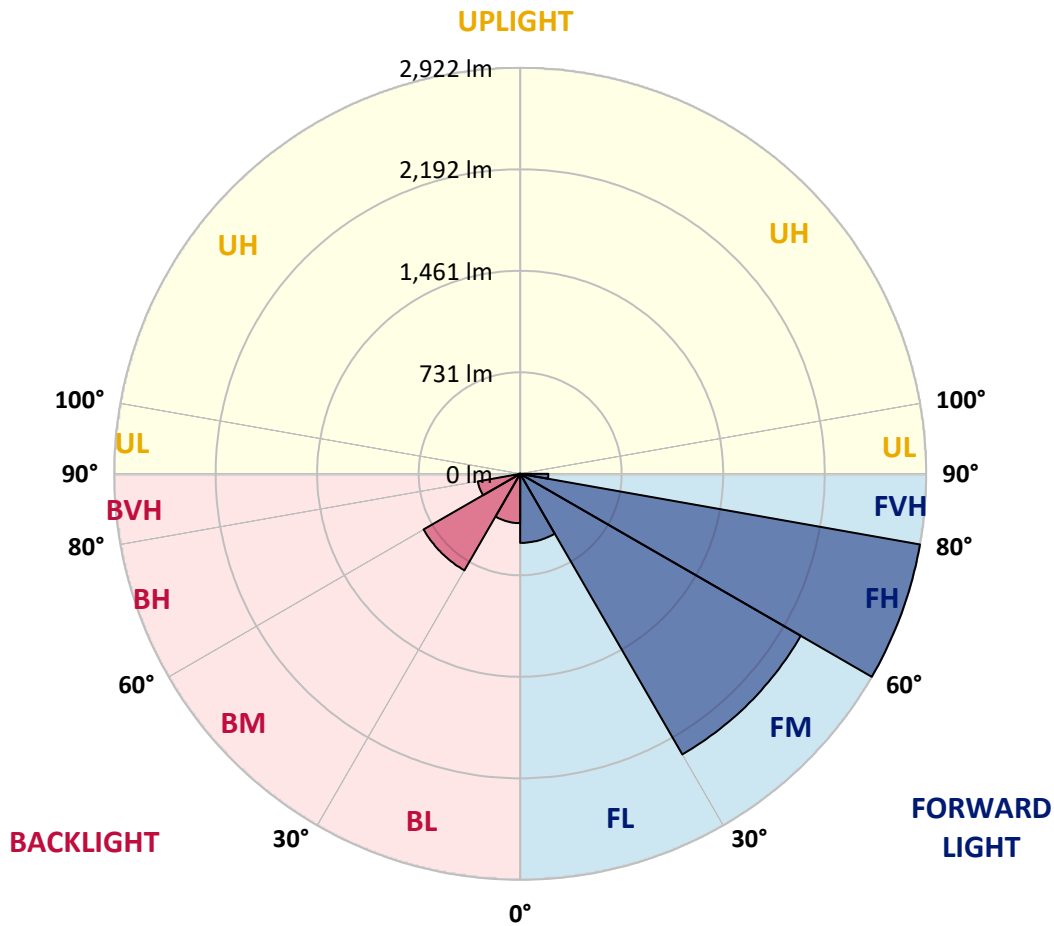
REPORT NUMBER: P946120
 CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.2	6.7			
FM (30°-60°)	2331.9	31.4			
FH (60°-80°)	2922.1	39.3			G2/5000
FVH (80°-90°)	202.7	2.7			G2/225
BL (0°-30°)	355.1	4.8	B1/500		
BM (30°-60°)	802.5	10.8	B1/1000		
BH (60°-80°)	309.5	4.2	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P946120
 CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
2.5°	1152.8	1161.5	1181.0	1191.2	1207.1	1208.1	1208.1	1194.3	1193.8	1165.6
5°	1288.5	1309.0	1355.0	1402.7	1412.9	1415.5	1410.3	1382.7	1362.2	1307.4
7.5°	1423.1	1462.6	1532.7	1596.2	1616.6	1616.6	1604.4	1559.3	1517.3	1438.0
10°	1534.7	1584.4	1679.6	1750.8	1774.3	1769.2	1744.1	1687.3	1629.4	1533.2
12.5°	1608.4	1664.2	1768.7	1826.0	1850.1	1836.8	1808.1	1752.8	1691.9	1590.5
15°	1645.3	1703.7	1794.3	1824.5	1817.8	1804.0	1800.4	1773.8	1727.7	1633.0
17.5°	1661.2	1715.4	1778.4	1759.5	1703.2	1692.4	1728.2	1762.0	1750.8	1669.9
20°	1676.0	1721.6	1740.5	1656.6	1558.3	1548.6	1617.1	1713.4	1762.5	1704.2
22.5°	1696.5	1724.7	1685.7	1548.0	1442.1	1419.5	1495.3	1640.2	1766.1	1747.7
25°	1724.7	1732.3	1625.3	1445.1	1338.7	1316.1	1386.8	1558.8	1760.0	1794.8
27.5°	1758.4	1742.6	1567.5	1359.1	1256.2	1235.3	1305.9	1480.5	1742.6	1841.9
30°	1802.5	1755.9	1510.2	1292.6	1197.4	1182.0	1250.1	1412.9	1721.1	1901.8
32.5°	1847.0	1761.5	1456.9	1253.7	1184.1	1189.7	1245.5	1376.5	1697.5	1959.1
35°	1895.1	1779.4	1430.8	1292.1	1295.2	1344.3	1367.3	1410.3	1693.9	2036.9
37.5°	1960.6	1819.4	1462.0	1483.0	1589.5	1691.4	1672.4	1575.7	1735.4	2153.1
40°	2054.8	1889.5	1598.2	1808.1	2026.7	2192.0	2119.9	1876.2	1862.4	2320.5
42.5°	2192.0	2001.1	1839.8	2205.3	2576.0	2848.3	2654.8	2263.7	2084.5	2559.6
45°	2394.8	2181.8	2132.1	2624.6	3253.2	3682.2	3279.9	2676.8	2395.8	2921.5
47.5°	2675.8	2447.5	2406.0	3066.4	4076.4	4631.3	3973.0	3059.7	2750.0	3415.0
50°	3049.0	2805.3	2665.6	3549.6	4978.9	5598.9	4665.6	3429.3	3156.0	4018.0
52.5°	3541.5	3304.4	2968.1	4009.9	5907.0	6545.9	5361.3	3753.9	3659.7	4717.8
55°	4213.1	4055.4	3381.7	4449.1	6834.6	7498.6	6029.9	4060.0	4325.2	5549.2
57.5°	5046.5	5159.1	3978.1	4958.4	7668.5	8480.4	6701.5	4488.0	5189.3	6478.8
60°	5584.0	6626.8	5120.2	5711.5	8616.1	9590.8	7622.0	5301.9	6097.5	6812.1
62.5°	5454.0	7093.7	6488.1	6672.9	9487.4	10398.1	8524.0	6119.5	6268.4	6321.2
65°	5055.2	6716.9	6209.1	6859.7	9708.0	10443.6	8765.1	6014.0	5317.3	5160.6
67.5°	4506.4	6270.0	5546.1	6364.2	9309.2	9806.8	8316.1	5319.9	4109.2	3872.7
70°	3914.1	5775.5	5111.0	5808.2	8549.0	8697.0	7552.8	4678.9	3022.4	2615.4
72.5°	3352.0	5260.5	4813.1	5238.5	7534.9	7228.8	6559.2	4112.2	2200.7	1886.4
75°	2777.2	4500.8	4388.7	4561.7	6201.4	5694.1	5449.9	3404.8	1727.2	1364.8
77.5°	2142.9	3516.9	3774.9	3653.0	4365.1	4229.5	4224.3	2558.6	1261.9	910.7
80°	1466.6	2451.1	2949.2	2577.0	2833.0	2763.8	3181.6	1716.5	915.3	548.3
82.5°	862.1	1492.2	2052.8	1247.5	1566.5	1607.9	1894.6	834.9	538.5	126.4
85°	349.6	589.2	802.7	488.4	755.6	637.3	719.2	234.5	150.0	3.1
87.5°	88.0	188.4	132.1	54.8	87.5	80.4	63.5	28.7	6.1	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: P946120
 CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1029.0	0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
1162.6	2.5°	1142.6	1130.8	1101.6	1072.5	1048.9	1017.2	996.2	971.1	947.0	925.5
1295.7	5°	1263.4	1224.5	1171.3	1122.6	1073.0	1024.9	977.3	927.1	881.0	852.9
1408.3	7.5°	1361.7	1293.1	1222.5	1160.5	1100.6	1044.3	981.3	920.4	848.2	809.9
1494.3	10°	1434.9	1344.8	1252.2	1181.0	1120.6	1065.8	1012.6	951.1	864.1	816.0
1546.5	12.5°	1483.0	1376.0	1267.5	1186.1	1118.5	1076.1	1052.5	1028.4	941.9	885.6
1584.9	15°	1516.3	1398.0	1278.3	1174.3	1091.4	1060.2	1083.7	1111.4	1056.1	991.1
1624.8	17.5°	1552.6	1426.7	1282.9	1142.6	1038.7	1025.4	1086.3	1150.3	1147.7	1083.2
1662.7	20°	1591.0	1451.8	1279.8	1091.4	974.7	986.5	1064.3	1138.5	1169.7	1134.9
1706.2	22.5°	1630.5	1475.9	1268.0	1024.9	914.8	951.7	1029.5	1094.5	1131.3	1120.6
1759.5	25°	1680.1	1509.6	1250.6	953.2	865.1	916.3	989.0	1041.8	1067.3	1066.8
1816.8	27.5°	1739.5	1554.7	1241.4	895.3	829.8	876.4	940.9	988.0	1005.9	1005.9
1888.0	30°	1808.6	1607.9	1231.2	857.5	809.3	834.9	885.1	931.2	949.1	949.1
1965.8	32.5°	1885.4	1659.1	1206.6	834.4	794.0	794.5	826.2	868.2	889.7	892.8
2063.0	35°	1977.5	1713.9	1152.8	816.0	776.1	755.1	770.4	805.2	830.8	837.5
2201.8	37.5°	2098.4	1781.0	1076.1	788.9	748.4	713.6	717.2	743.8	772.0	782.2
2393.2	40°	2260.6	1859.8	996.2	750.0	709.5	668.1	666.5	686.0	713.6	724.9
2652.2	42.5°	2475.1	1954.5	919.9	712.6	662.4	619.9	617.4	632.7	656.8	668.6
2994.2	45°	2749.5	2070.7	854.4	683.4	616.3	574.4	573.3	586.1	607.1	619.4
3431.9	47.5°	3130.9	2186.9	809.9	668.1	580.0	537.0	539.0	550.3	569.3	578.0
3998.6	50°	3628.0	2222.2	787.3	668.1	560.6	503.7	514.0	523.2	537.5	542.6
4677.9	52.5°	4105.1	2105.5	766.9	672.1	563.1	475.6	497.6	504.2	516.5	518.6
5307.6	55°	4339.0	1810.1	738.7	673.2	579.0	451.5	484.3	496.6	501.2	500.7
5673.1	57.5°	4258.6	1463.6	691.1	669.1	589.7	436.2	467.9	491.4	494.5	489.9
5603.5	60°	3976.6	1077.6	654.7	638.9	585.6	431.5	442.8	480.2	484.8	478.6
5067.0	62.5°	3503.6	747.9	626.6	572.3	567.7	430.0	403.4	455.6	466.9	458.2
4072.8	65°	2758.2	528.3	539.6	501.7	528.8	421.8	362.4	425.9	441.3	428.0
2954.8	67.5°	1866.5	381.4	437.2	454.6	465.8	403.4	332.7	392.1	412.6	395.2
1896.1	70°	1008.0	267.7	288.7	382.9	395.7	371.7	306.1	357.8	381.4	362.4
1347.9	72.5°	595.4	192.5	202.2	307.7	329.7	327.1	276.4	317.9	346.6	324.0
930.2	75°	328.1	130.0	144.4	223.2	267.7	252.4	237.5	269.3	298.4	276.4
583.1	77.5°	146.9	77.8	100.3	146.4	210.4	173.0	183.8	209.9	237.0	214.0
324.6	80°	56.8	43.5	66.5	79.9	153.1	95.7	118.3	154.6	174.1	155.6
70.6	82.5°	7.2	19.5	28.7	31.2	89.1	50.7	68.6	97.3	95.7	82.9
0.0	85°	0.0	3.6	4.1	2.0	38.4	18.4	22.5	31.7	29.7	22.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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: P946120
 CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1029.0	0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
921.5	2.5°	896.4	877.9	868.7	861.0	868.2	872.3	872.3	889.7	900.0	904.0
834.9	5°	789.9	755.6	732.6	718.7	723.3	728.5	734.1	756.1	770.9	780.7
775.0	7.5°	705.9	653.7	621.5	604.6	607.1	610.7	615.3	636.8	651.7	664.5
763.8	10°	664.5	590.8	548.3	527.8	524.2	522.2	520.6	533.4	544.7	554.9
809.9	12.5°	666.5	563.6	511.9	486.8	476.1	463.8	454.1	456.1	463.3	476.1
892.3	15°	692.6	554.9	493.0	461.8	443.8	429.5	417.7	415.2	417.7	419.8
986.5	17.5°	727.9	553.9	476.6	437.7	419.3	407.5	396.7	393.2	393.7	396.2
1048.9	20°	756.1	550.8	458.2	414.7	398.3	388.0	377.3	373.7	374.7	375.2
1055.1	22.5°	770.9	546.2	437.7	391.6	377.8	367.6	357.8	357.3	357.3	360.4
1021.8	25°	770.9	536.5	419.3	369.6	357.3	348.1	336.3	338.4	339.4	343.5
970.1	27.5°	752.5	518.1	404.4	350.7	337.9	328.7	317.9	320.5	322.0	326.6
918.9	30°	729.0	496.0	387.5	332.7	317.9	311.2	302.0	303.1	305.1	310.2
871.3	32.5°	703.9	469.9	373.7	314.8	300.0	294.9	284.6	286.2	288.2	293.8
824.2	35°	676.2	439.2	357.3	298.4	283.6	279.5	267.7	268.8	271.8	278.0
773.5	37.5°	647.1	414.1	340.9	282.6	267.2	263.1	250.8	251.9	255.4	262.6
720.3	40°	618.4	389.6	323.5	265.7	250.3	246.7	233.4	234.5	238.6	246.2
666.5	42.5°	587.2	370.6	301.0	248.3	231.9	228.3	216.0	217.6	222.2	229.9
616.9	45°	549.8	358.3	275.9	231.9	213.5	209.9	198.6	201.7	206.8	214.5
574.4	47.5°	511.4	353.2	254.9	214.5	194.5	191.5	182.2	187.4	193.0	199.1
538.0	50°	474.5	346.6	233.4	198.1	178.1	175.1	168.9	175.6	181.2	186.9
511.9	52.5°	432.6	332.2	214.0	183.8	164.3	163.3	160.2	166.4	171.5	176.6
489.4	55°	389.1	309.2	197.1	171.0	152.6	153.6	152.0	157.2	161.3	165.9
468.9	57.5°	351.2	280.0	183.8	157.2	142.3	145.4	143.3	145.9	148.5	154.1
444.3	60°	312.8	245.2	168.9	140.8	132.1	135.7	130.0	129.5	130.5	132.1
408.0	62.5°	261.1	208.9	150.5	126.4	120.8	122.3	111.6	103.4	103.4	104.9
357.3	65°	209.9	175.1	130.0	110.1	105.5	104.4	89.1	77.8	76.8	81.4
298.4	67.5°	172.5	145.4	109.6	91.6	88.6	89.6	78.3	67.1	66.0	71.2
243.2	70°	142.8	117.2	87.5	70.6	73.7	78.3	67.1	56.3	54.8	59.4
197.6	72.5°	113.6	91.6	67.1	52.2	60.9	66.5	54.8	44.5	43.5	47.6
152.6	75°	83.4	65.5	45.6	37.9	47.1	52.2	39.9	31.7	30.2	33.8
101.9	77.5°	51.7	36.9	28.7	22.5	32.3	34.8	21.0	18.4	17.9	20.5
61.9	80°	24.1	15.9	13.8	7.7	11.8	13.8	8.7	9.7	10.2	12.3
31.2	82.5°	6.7	2.6	0.5	0.0	0.0	4.1	2.0	4.1	5.1	7.7
2.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.6	4.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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: P946120
 CATALOG NUMBER: GALN-SB1D-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1029.0	0°	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0	1029.0
932.7	2.5°	954.2	974.7	1007.5	1041.2	1074.5	1108.3	1141.1	1152.8
825.2	5°	865.7	912.8	977.8	1047.4	1119.1	1191.7	1258.3	1288.5
714.1	7.5°	766.9	834.4	932.2	1041.2	1155.4	1269.6	1374.5	1423.1
604.1	10°	661.4	746.9	858.5	1005.9	1169.7	1327.4	1471.8	1534.7
507.3	12.5°	561.1	650.6	774.0	950.6	1158.5	1360.7	1534.2	1608.4
439.2	15°	477.1	556.5	689.6	885.1	1122.1	1362.7	1563.9	1645.3
401.3	17.5°	414.1	465.8	603.6	812.4	1074.5	1343.8	1574.1	1661.2
380.9	20°	382.9	397.2	492.0	719.2	1030.0	1325.9	1584.4	1676.0
364.5	22.5°	364.5	368.1	402.4	598.9	976.7	1320.2	1602.3	1696.5
349.6	25°	349.6	350.7	359.9	474.5	895.3	1316.7	1629.9	1724.7
334.3	27.5°	334.8	334.8	339.9	382.4	784.8	1301.3	1665.8	1758.4
318.9	30°	319.9	319.9	323.5	338.4	655.3	1271.1	1708.8	1802.5
303.6	32.5°	304.6	304.6	307.7	318.4	523.2	1233.2	1748.2	1847.0
287.7	35°	289.2	288.2	292.3	303.6	416.2	1185.1	1787.6	1895.1
271.8	37.5°	272.9	272.3	276.4	289.2	359.4	1129.3	1817.3	1960.6
256.0	40°	255.4	255.4	260.1	273.9	343.0	1059.2	1864.4	2054.8
239.6	42.5°	239.6	238.6	243.7	260.6	330.7	992.1	1948.9	2192.0
224.7	45°	224.2	222.2	226.8	247.8	309.2	968.5	2106.5	2394.8
210.4	47.5°	209.9	204.8	208.9	232.4	289.7	1056.6	2364.6	2675.8
197.6	50°	198.1	188.4	192.0	217.1	274.9	1247.5	2699.3	3049.0
185.8	52.5°	185.8	173.0	175.1	198.1	261.6	1429.3	3062.3	3541.5
174.1	55°	173.0	158.7	159.7	179.2	242.6	1456.4	3416.5	4213.1
160.7	57.5°	158.7	145.4	145.4	161.8	228.8	1262.4	3688.9	5046.5
144.4	60°	142.8	134.1	131.6	147.9	241.1	890.7	3720.6	5584.0
123.4	62.5°	125.4	120.8	117.2	134.6	250.3	527.8	3465.2	5454.0
97.3	65°	105.5	104.4	101.9	147.9	210.9	311.8	2974.8	5055.2
82.9	67.5°	88.6	87.0	87.0	155.1	160.2	196.1	2324.1	4506.4
70.6	70°	76.3	70.6	70.6	117.2	97.3	135.7	1622.8	3914.1
58.4	72.5°	64.0	57.8	53.8	93.7	72.7	99.3	1014.1	3352.0
44.5	75°	51.2	46.6	41.5	61.9	54.3	75.3	589.2	2777.2
28.2	77.5°	36.9	34.8	29.2	45.6	39.4	54.3	350.7	2142.9
17.4	80°	18.9	19.5	18.4	26.1	26.6	36.9	199.6	1466.6
11.3	82.5°	11.3	8.7	9.7	12.8	15.4	21.0	75.3	862.1
8.2	85°	7.2	4.6	4.6	6.1	7.7	8.2	23.0	349.6
4.1	87.5°	3.6	1.5	2.0	3.1	2.6	2.0	1.0	88.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)