

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: P947422

Luminaire Tested: **GALN-SB2D-740-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947422  
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-SB2D-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

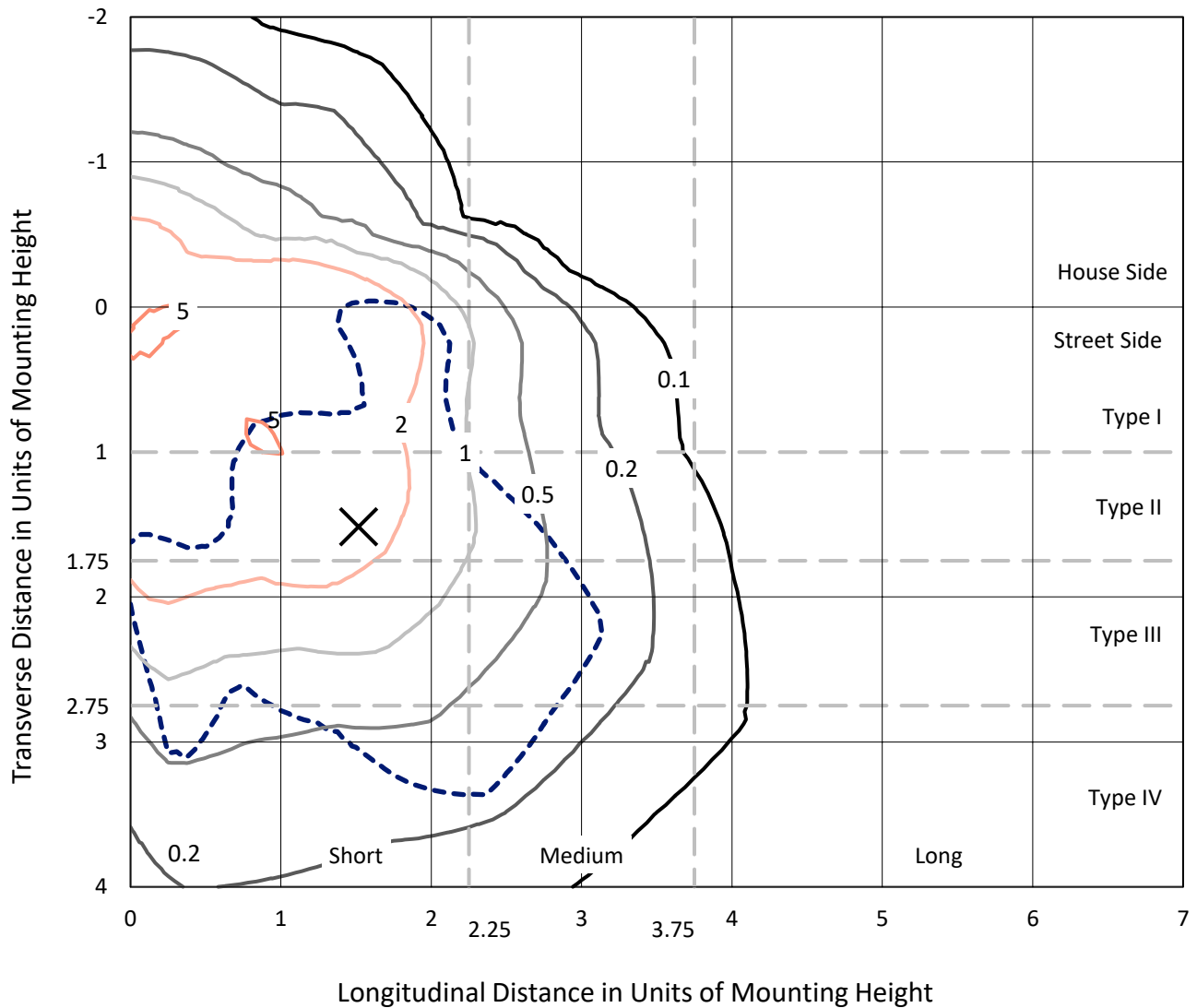
Lumens per Lamp: N/A  
Luminaire Lumens: 16432 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947422  
 CATALOG NUMBER: GALN-SB2D-740-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

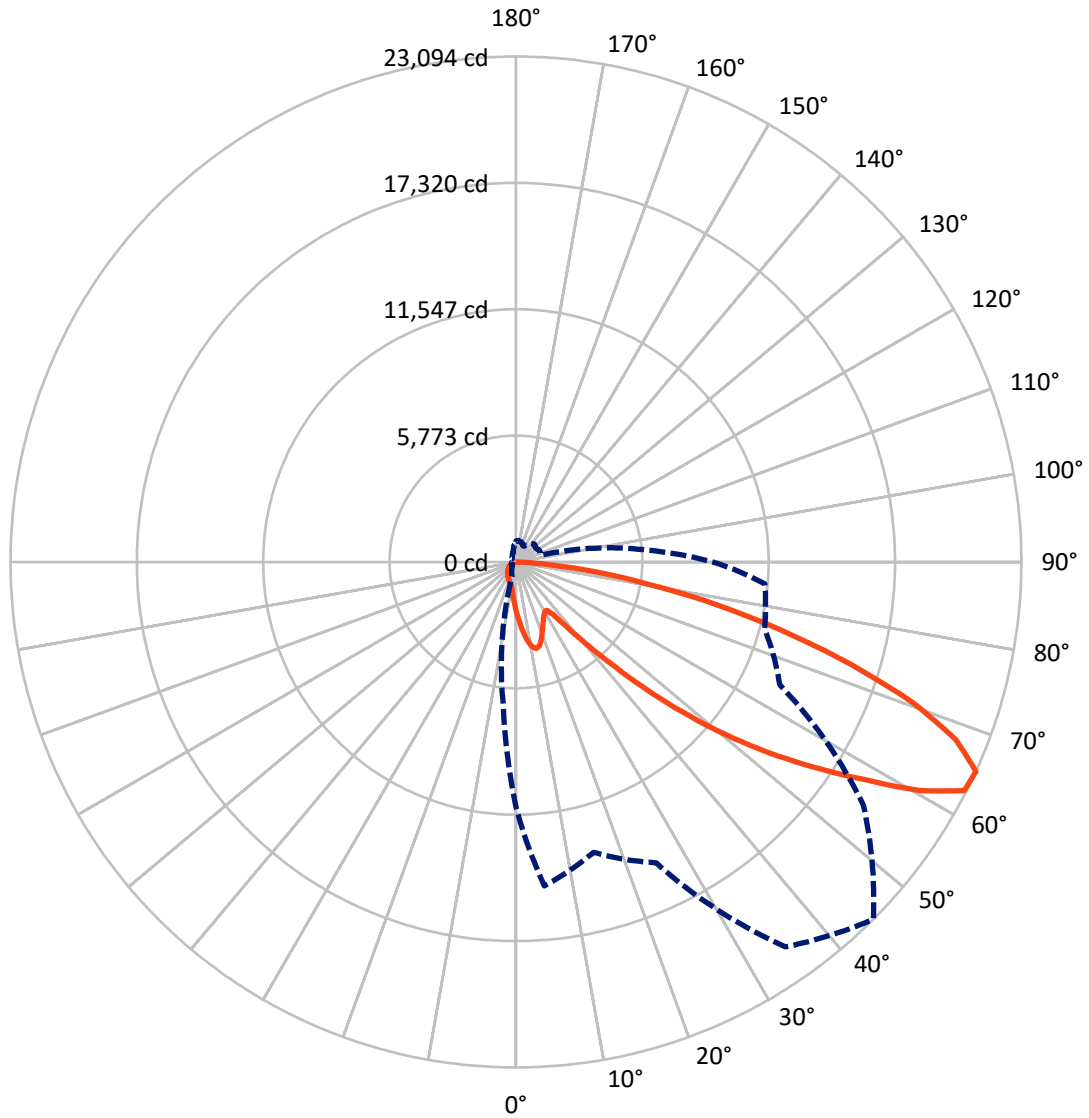
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P947422  
CATALOG NUMBER: GALN-SB2D-740-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P947422

CATALOG NUMBER: GALN-SB2D-740-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3266.2	0.0	3266.2
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	13165.8	0.0	13165.8
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	16432.0	0.0	16432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.0	1.4
10°-20°	671.5	4.1
20°-30°	989.3	6.0
30°-40°	1271.0	7.7
40°-50°	2055.5	12.5
50°-60°	3604.6	21.9
60°-70°	4510.3	27.4
70°-80°	2635.6	16.0
80°-90°	470.2	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°	16432.0	100.0
0°-180°	16432.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947422

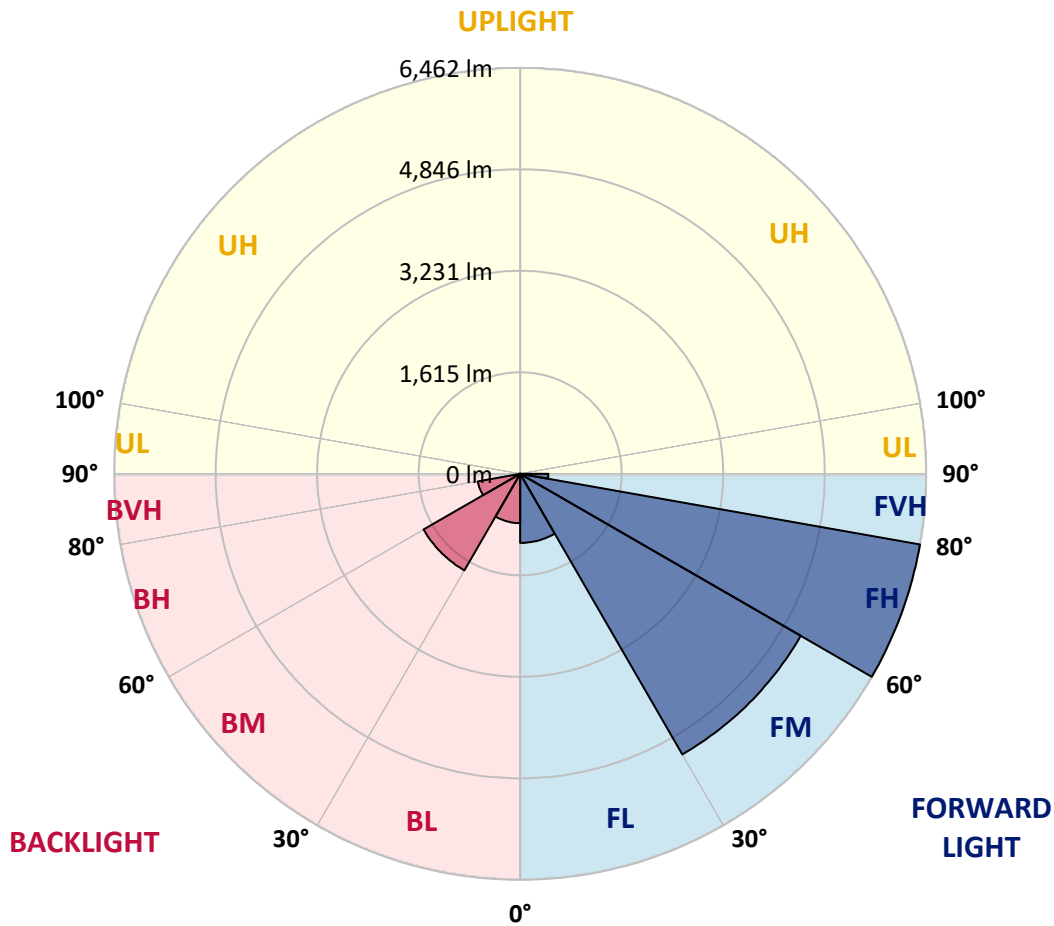
CATALOG NUMBER: GALN-SB2D-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.5	6.7			
FM (30°-60°)	5156.6	31.4			
FH (60°-80°)	6461.6	39.3			G3/7500
FVH (80°-90°)	448.2	2.7			G3/500
BL (0°-30°)	785.3	4.8	B2/1000		
BM (30°-60°)	1774.5	10.8	B2/2500		
BH (60°-80°)	684.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	22.0	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: P947422

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
2.5°	2549.2	2568.5	2611.5	2634.1	2669.2	2671.5	2671.5	2640.9	2639.8	2577.5
5°	2849.2	2894.5	2996.4	3101.7	3124.3	3130.0	3118.6	3057.5	3012.2	2891.1
7.5°	3146.9	3234.1	3389.2	3529.6	3574.8	3574.8	3547.7	3448.1	3355.2	3179.8
10°	3393.7	3503.5	3714.1	3871.4	3923.5	3912.2	3856.7	3731.0	3603.1	3390.3
12.5°	3556.7	3680.1	3911.0	4037.8	4091.0	4061.6	3998.2	3875.9	3741.2	3517.1
15°	3638.2	3767.3	3967.6	4034.4	4019.7	3989.1	3981.2	3922.4	3820.5	3611.1
17.5°	3673.3	3793.3	3932.5	3890.7	3766.1	3742.4	3821.6	3896.3	3871.4	3692.6
20°	3706.1	3806.9	3848.8	3663.1	3445.8	3424.3	3576.0	3788.8	3897.5	3768.4
22.5°	3751.4	3813.7	3727.7	3423.1	3188.8	3139.0	3306.6	3626.9	3905.4	3864.6
25°	3813.7	3830.7	3594.1	3195.6	2960.2	2910.4	3066.6	3446.9	3891.8	3968.8
27.5°	3888.4	3853.3	3466.2	3005.4	2777.9	2731.5	2887.7	3273.7	3853.3	4072.9
30°	3985.7	3882.7	3339.4	2858.3	2647.7	2613.8	2764.3	3124.3	3805.8	4205.4
32.5°	4084.2	3895.2	3221.7	2772.3	2618.3	2630.8	2754.1	3043.9	3753.7	4332.1
35°	4190.6	3934.8	3163.9	2857.2	2863.9	2972.6	3023.6	3118.6	3745.8	4504.2
37.5°	4335.5	4023.1	3233.0	3279.4	3514.8	3740.1	3698.2	3484.3	3837.5	4761.2
40°	4543.8	4178.2	3534.1	3998.2	4481.6	4847.2	4687.6	4148.8	4118.2	5131.3
42.5°	4847.2	4425.0	4068.4	4876.6	5696.2	6298.4	5870.5	5005.7	4609.5	5660.0
45°	5295.5	4824.6	4714.8	5803.7	7193.8	8142.4	7252.7	5919.2	5297.7	6460.3
47.5°	5916.9	5412.1	5320.4	6780.6	9014.1	10241.1	8785.4	6765.9	6081.1	7551.5
50°	6742.2	6203.3	5894.3	7849.2	11009.8	12380.6	10317.0	7583.2	6978.7	8885.0
52.5°	7831.1	7307.0	6563.3	8866.9	13062.1	14474.8	11855.4	8300.9	8092.6	10432.4
55°	9316.3	8967.6	7477.9	9838.2	15113.2	16581.4	13333.7	8977.8	9564.2	12270.8
57.5°	11159.2	11408.2	8796.7	10964.5	16957.3	18752.6	14818.9	9924.2	11475.0	14326.5
60°	12347.8	14653.7	11322.2	12629.6	19052.6	21207.9	16854.2	11724.1	13483.2	15063.4
62.5°	12060.3	15686.0	14346.9	14755.5	20979.2	22993.0	18848.8	13531.8	13861.3	13977.9
65°	11178.4	14852.9	13729.9	15168.7	21467.1	23093.8	19382.0	13298.7	11758.0	11411.6
67.5°	9964.9	13864.7	12264.0	14072.9	20585.3	21685.6	18389.2	11763.7	9086.5	8563.5
70°	8655.2	12771.1	11301.8	12843.6	18904.3	19231.4	16701.4	10346.4	6683.3	5783.4
72.5°	7412.3	11632.4	10643.0	11583.7	16661.8	15984.9	14504.2	9093.3	4866.4	4171.4
75°	6141.1	9952.5	9704.6	10087.2	13713.0	12591.2	12051.2	7528.9	3819.3	3017.9
77.5°	4738.5	7776.8	8347.3	8077.9	9652.5	9352.5	9341.2	5657.7	2790.4	2013.8
80°	3243.2	5420.0	6521.4	5698.5	6264.5	6111.6	7035.3	3795.6	2024.0	1212.4
82.5°	1906.3	3299.8	4539.3	2758.7	3463.9	3555.6	4189.5	1846.3	1190.9	279.6
85°	773.2	1302.9	1775.0	1079.9	1670.8	1409.3	1590.5	518.5	331.7	6.8
87.5°	194.7	416.6	292.1	121.1	193.6	177.7	140.4	63.4	13.6	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: P947422  
 CATALOG NUMBER: GALN-SB2D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2275.3	0°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
2570.8	2.5°	2526.6	2500.6	2436.0	2371.5	2319.5	2249.3	2202.9	2147.4	2094.2	2046.6
2865.1	5°	2793.8	2707.7	2590.0	2482.5	2372.7	2266.3	2161.0	2050.0	1948.2	1885.9
3114.1	7.5°	3011.1	2859.4	2703.2	2566.2	2433.8	2309.3	2170.0	2035.3	1875.7	1790.8
3304.3	10°	3173.0	2973.7	2768.9	2611.5	2477.9	2356.8	2239.1	2103.2	1910.8	1804.4
3419.8	12.5°	3279.4	3042.8	2802.8	2622.8	2473.4	2379.4	2327.4	2274.2	2082.9	1958.3
3504.7	15°	3353.0	3091.5	2826.6	2596.8	2413.4	2344.4	2396.4	2457.6	2335.3	2191.5
3592.9	17.5°	3433.3	3154.9	2836.8	2526.6	2296.8	2267.4	2402.1	2543.6	2537.9	2395.3
3676.7	20°	3518.2	3210.3	2830.0	2413.4	2155.3	2181.4	2353.4	2517.6	2586.6	2509.6
3772.9	22.5°	3605.4	3263.5	2803.9	2266.3	2022.9	2104.4	2276.4	2420.2	2501.7	2477.9
3890.7	25°	3715.2	3338.2	2765.5	2107.8	1913.1	2026.3	2187.0	2303.6	2360.2	2359.1
4017.4	27.5°	3846.5	3437.9	2745.1	1979.9	1835.0	1938.0	2080.6	2184.7	2224.4	2224.4
4174.8	30°	3999.3	3555.6	2722.4	1896.1	1789.7	1846.3	1957.2	2059.1	2098.7	2098.7
4346.9	32.5°	4169.1	3668.8	2668.1	1845.1	1755.7	1756.9	1827.0	1919.9	1967.4	1974.2
4561.9	35°	4372.9	3789.9	2549.2	1804.4	1716.1	1669.7	1703.6	1780.6	1837.2	1851.9
4868.7	37.5°	4640.0	3938.2	2379.4	1744.4	1655.0	1578.0	1585.9	1644.8	1707.0	1729.7
5292.1	40°	4998.9	4112.5	2202.9	1658.4	1568.9	1477.3	1473.9	1516.9	1578.0	1602.9
5864.9	42.5°	5473.2	4321.9	2034.2	1575.7	1464.8	1370.8	1365.2	1399.1	1452.3	1478.4
6621.0	45°	6079.9	4578.9	1889.3	1511.2	1362.9	1270.1	1267.8	1296.1	1342.5	1369.7
7588.9	47.5°	6923.3	4835.9	1790.8	1477.3	1282.5	1187.5	1192.0	1216.9	1258.8	1278.0
8842.0	50°	8022.4	4914.0	1741.0	1477.3	1239.5	1113.9	1136.5	1156.9	1188.6	1199.9
10344.2	52.5°	9077.5	4655.9	1695.7	1486.3	1245.2	1051.6	1100.3	1115.0	1142.2	1146.7
11736.5	55°	9594.8	4002.7	1633.5	1488.6	1280.3	998.4	1070.9	1098.0	1108.2	1107.1
12544.7	57.5°	9417.1	3236.4	1528.2	1479.5	1304.1	964.5	1034.6	1086.7	1093.5	1083.3
12390.8	60°	8793.3	2382.8	1447.8	1412.7	1295.0	954.3	979.2	1061.8	1072.0	1058.4
11204.5	62.5°	7747.4	1653.8	1385.6	1265.6	1255.4	950.9	892.0	1007.5	1032.4	1013.1
9006.1	65°	6099.2	1168.2	1193.1	1109.4	1169.3	932.8	801.5	941.8	975.8	946.3
6533.9	67.5°	4127.2	843.3	966.7	1005.2	1030.1	892.0	735.8	867.1	912.4	873.9
4192.9	70°	2228.9	592.0	638.4	846.7	875.0	821.8	676.9	791.3	843.3	801.5
2980.5	72.5°	1316.5	425.6	447.1	680.3	729.0	723.3	611.3	703.0	766.4	716.6
2056.8	75°	725.6	287.5	319.2	493.5	592.0	558.1	525.2	595.4	660.0	611.3
1289.3	77.5°	324.9	172.1	221.9	323.8	465.2	382.6	406.4	464.1	524.1	473.2
717.7	80°	125.7	96.2	147.2	176.6	338.5	211.7	261.5	341.9	384.9	344.1
156.2	82.5°	15.8	43.0	63.4	69.1	197.0	112.1	151.7	215.1	211.7	183.4
0.0	85°	0.0	7.9	9.1	4.5	84.9	40.8	49.8	70.2	65.7	49.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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: P947422  
 CATALOG NUMBER: GALN-SB2D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2275.3	0°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
2037.6	2.5°	1982.1	1941.4	1921.0	1904.0	1919.9	1928.9	1928.9	1967.4	1990.0	1999.1
1846.3	5°	1746.7	1670.8	1619.9	1589.3	1599.5	1610.8	1623.3	1672.0	1704.8	1726.3
1713.8	7.5°	1561.0	1445.6	1374.2	1336.9	1342.5	1350.5	1360.7	1408.2	1441.0	1469.3
1688.9	10°	1469.3	1306.3	1212.4	1167.1	1159.2	1154.6	1151.2	1179.5	1204.4	1227.1
1790.8	12.5°	1473.9	1246.3	1132.0	1076.5	1052.8	1025.6	1004.1	1008.6	1024.5	1052.8
1973.1	15°	1531.6	1227.1	1090.1	1021.1	981.4	949.7	923.7	918.0	923.7	928.2
2181.4	17.5°	1609.7	1224.8	1053.9	967.9	927.1	901.1	877.3	869.4	870.5	876.2
2319.5	20°	1672.0	1218.0	1013.1	916.9	880.7	858.1	834.3	826.4	828.6	829.8
2333.0	22.5°	1704.8	1207.8	967.9	866.0	835.4	812.8	791.3	790.1	790.1	796.9
2259.5	25°	1704.8	1186.3	927.1	817.3	790.1	769.8	743.7	748.2	750.5	759.6
2145.1	27.5°	1664.0	1145.6	894.3	775.4	747.1	726.7	703.0	708.6	712.0	722.2
2031.9	30°	1612.0	1096.9	856.9	735.8	703.0	688.3	667.9	670.1	674.7	686.0
1926.7	32.5°	1556.5	1039.2	826.4	696.2	663.3	652.0	629.4	632.8	637.3	649.8
1822.5	35°	1495.4	971.3	790.1	660.0	627.1	618.1	592.0	594.3	601.1	614.7
1710.4	37.5°	1430.8	915.8	753.9	624.9	590.9	581.8	554.7	556.9	564.9	580.7
1592.7	40°	1367.4	861.4	715.4	587.5	553.5	545.6	516.2	518.5	527.5	544.5
1473.9	42.5°	1298.4	819.6	665.6	549.0	512.8	504.9	477.7	481.1	491.3	508.3
1364.1	45°	1215.8	792.4	610.1	512.8	472.0	464.1	439.2	446.0	457.3	474.3
1270.1	47.5°	1130.9	781.1	563.7	474.3	430.2	423.4	403.0	414.3	426.8	440.3
1189.7	50°	1049.4	766.4	516.2	438.1	393.9	387.1	373.6	388.3	400.7	413.2
1132.0	52.5°	956.5	734.7	473.2	406.4	363.4	361.1	354.3	367.9	379.2	390.5
1082.2	55°	860.3	683.7	435.8	378.1	337.3	339.6	336.2	347.5	356.6	366.8
1036.9	57.5°	776.5	619.2	406.4	347.5	314.7	321.5	317.0	322.6	328.3	340.7
982.6	60°	691.6	542.2	373.6	311.3	292.1	300.0	287.5	286.4	288.7	292.1
902.2	62.5°	577.3	461.9	332.8	279.6	267.2	270.5	246.8	228.7	228.7	232.1
790.1	65°	464.1	387.1	287.5	243.4	233.2	230.9	197.0	172.1	169.8	180.0
660.0	67.5°	381.5	321.5	242.2	202.6	195.8	198.1	173.2	148.3	146.0	157.3
537.7	70°	315.8	259.2	193.6	156.2	163.0	173.2	148.3	124.5	121.1	131.3
436.9	72.5°	251.3	202.6	148.3	115.5	134.7	147.2	121.1	98.5	96.2	105.3
337.3	75°	184.5	144.9	100.7	83.8	104.1	115.5	88.3	70.2	66.8	74.7
225.3	77.5°	114.3	81.5	63.4	49.8	71.3	77.0	46.4	40.8	39.6	45.3
137.0	80°	53.2	35.1	30.6	17.0	26.0	30.6	19.2	21.5	22.6	27.2
69.1	82.5°	14.7	5.7	1.1	0.0	0.0	9.1	4.5	9.1	11.3	17.0
5.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	10.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5
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: P947422  
 CATALOG NUMBER: GALN-SB2D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
2275.3	0°	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3	2275.3
2062.5	2.5°	2110.0	2155.3	2227.8	2302.5	2376.1	2450.8	2523.2	2549.2
1824.8	5°	1914.2	2018.3	2162.1	2316.1	2474.5	2635.3	2782.4	2849.2
1579.1	7.5°	1695.7	1845.1	2061.4	2302.5	2554.9	2807.3	3039.4	3146.9
1335.8	10°	1462.5	1651.6	1898.4	2224.4	2586.6	2935.3	3254.5	3393.7
1121.8	12.5°	1240.7	1438.8	1711.6	2102.1	2561.7	3008.8	3392.6	3556.7
971.3	15°	1055.0	1230.5	1524.8	1957.2	2481.3	3013.4	3458.2	3638.2
887.5	17.5°	915.8	1030.1	1334.6	1796.5	2376.1	2971.5	3480.9	3673.3
842.2	20°	846.7	878.4	1087.8	1590.5	2277.6	2931.9	3503.5	3706.1
806.0	22.5°	806.0	813.9	889.7	1324.4	2159.8	2919.4	3543.1	3751.4
773.2	25°	773.2	775.4	795.8	1049.4	1979.9	2911.5	3604.3	3813.7
739.2	27.5°	740.3	740.3	751.6	845.6	1735.3	2877.5	3683.5	3888.4
705.2	30°	707.5	707.5	715.4	748.2	1449.0	2810.7	3778.6	3985.7
671.3	32.5°	673.5	673.5	680.3	704.1	1156.9	2727.0	3865.8	4084.2
636.2	35°	639.6	637.3	646.4	671.3	920.3	2620.6	3952.9	4190.6
601.1	37.5°	603.4	602.2	611.3	639.6	794.7	2497.2	4018.6	4335.5
566.0	40°	564.9	564.9	575.1	605.6	758.4	2342.1	4122.7	4543.8
529.8	42.5°	529.8	527.5	538.8	576.2	731.3	2193.8	4309.5	4847.2
496.9	45°	495.8	491.3	501.5	547.9	683.7	2141.7	4658.2	5295.5
465.2	47.5°	464.1	452.8	461.9	513.9	640.7	2336.4	5228.7	5916.9
436.9	50°	438.1	416.6	424.5	480.0	607.9	2758.7	5969.0	6742.2
410.9	52.5°	410.9	382.6	387.1	438.1	578.4	3160.5	6771.6	7831.1
384.9	55°	382.6	350.9	353.2	396.2	536.6	3220.5	7554.9	9316.3
355.4	57.5°	350.9	321.5	321.5	357.7	506.0	2791.5	8157.1	11159.2
319.2	60°	315.8	296.6	290.9	327.1	533.2	1969.7	8227.3	12347.8
272.8	62.5°	277.3	267.2	259.2	297.7	553.5	1167.1	7662.5	12060.3
215.1	65°	233.2	230.9	225.3	327.1	466.4	689.4	6578.0	11178.4
183.4	67.5°	195.8	192.4	192.4	343.0	354.3	433.6	5139.2	9964.9
156.2	70°	168.7	156.2	156.2	259.2	215.1	300.0	3588.4	8655.2
129.0	72.5°	141.5	127.9	118.9	207.2	160.7	219.6	2242.5	7412.3
98.5	75°	113.2	103.0	91.7	137.0	120.0	166.4	1302.9	6141.1
62.3	77.5°	81.5	77.0	64.5	100.7	87.2	120.0	775.4	4738.5
38.5	80°	41.9	43.0	40.8	57.7	58.9	81.5	441.5	3243.2
24.9	82.5°	24.9	19.2	21.5	28.3	34.0	46.4	166.4	1906.3
18.1	85°	15.8	10.2	10.2	13.6	17.0	18.1	50.9	773.2
9.1	87.5°	7.9	3.4	4.5	6.8	5.7	4.5	2.3	194.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)