

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: P946941

Luminaire Tested: **GALN-SB2B-940-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946941  
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-SB2B-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

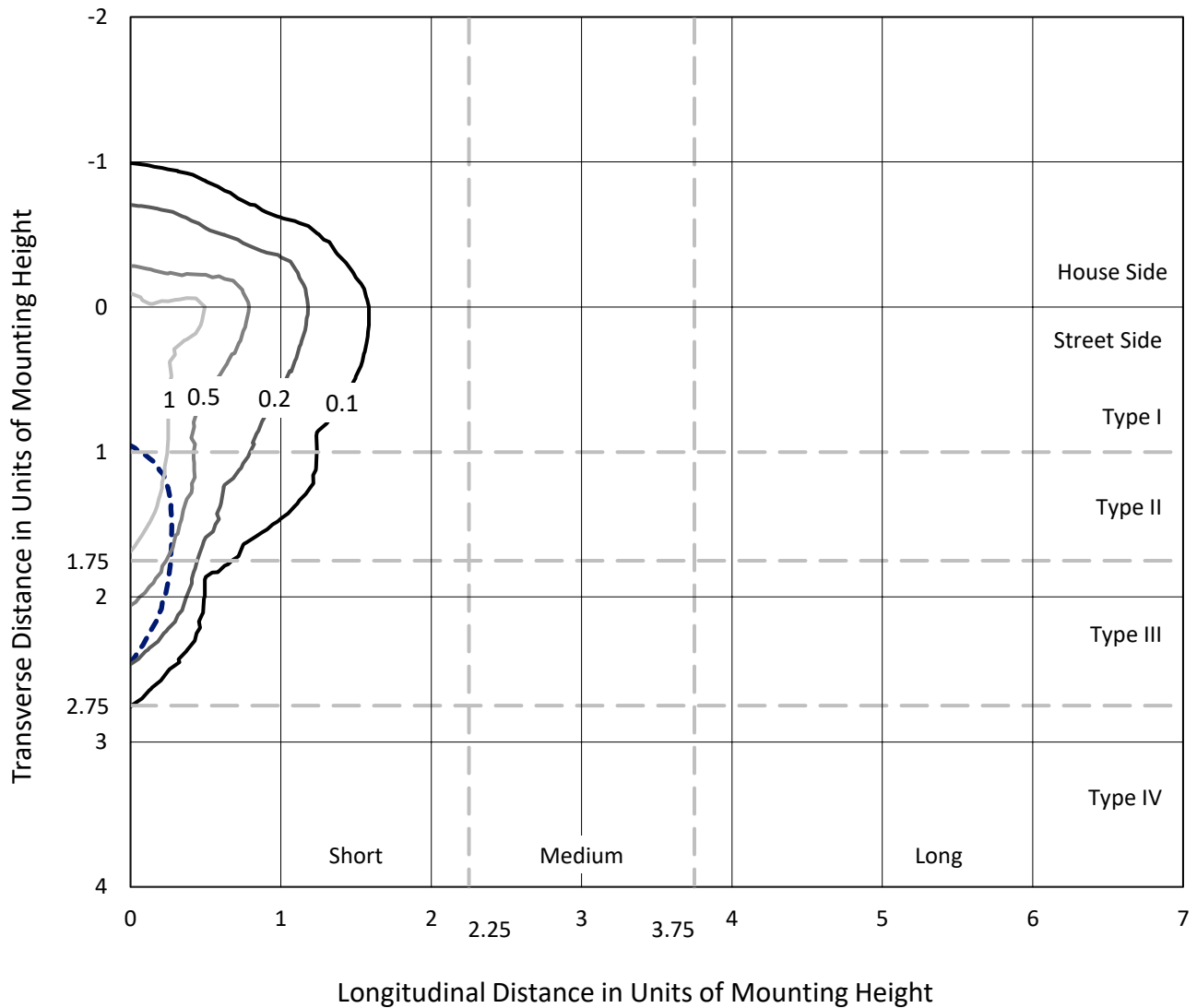
Lumens per Lamp: N/A  
Luminaire Lumens: 6228 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946941  
 CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

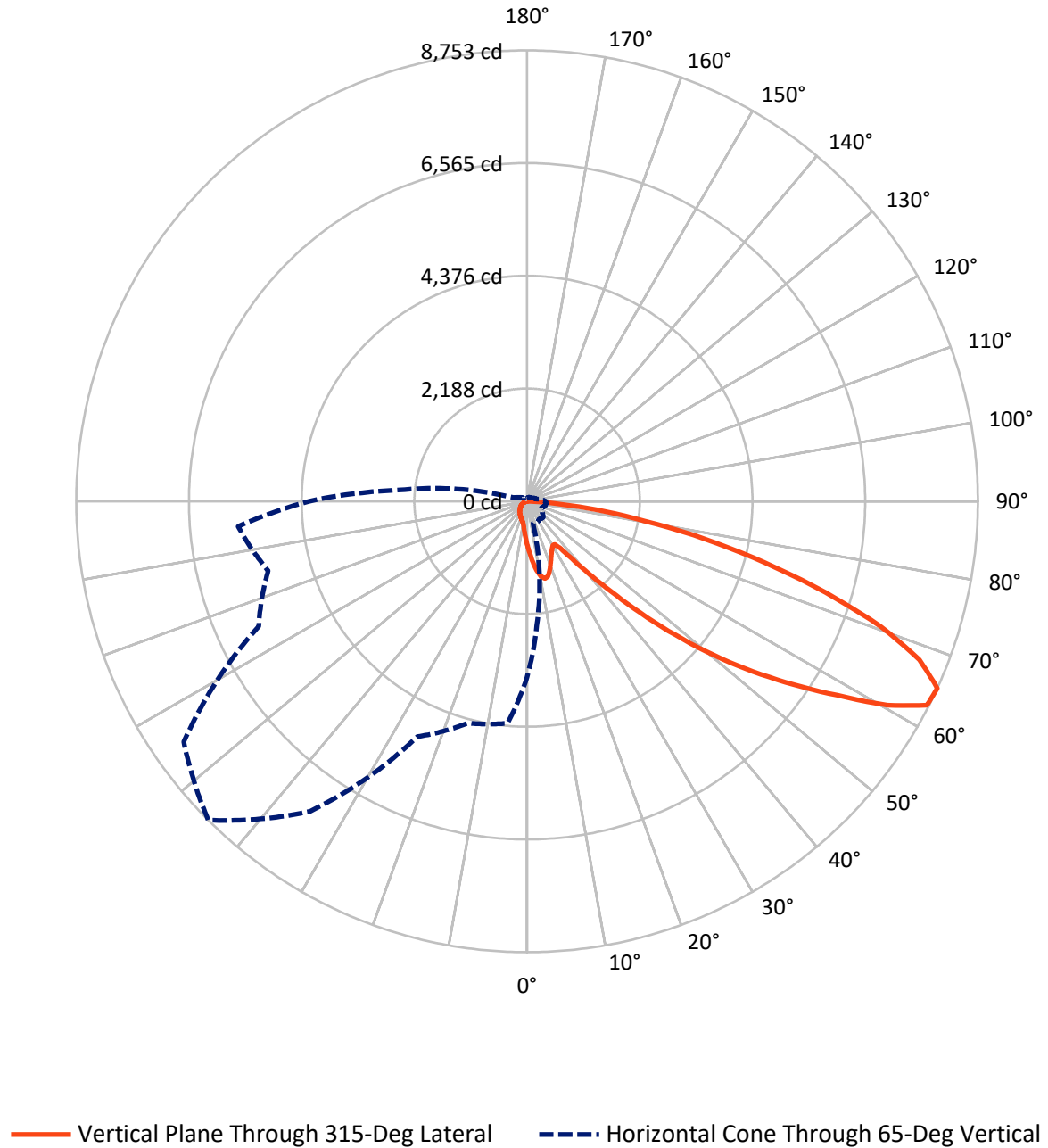
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P946941  
CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P946941  
 CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	872.2	0.0	872.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	5355.8	0.0	5355.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	6228.0	0.0	6228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.9	1.4
10°-20°	254.5	4.1
20°-30°	375.0	6.0
30°-40°	481.7	7.7
40°-50°	779.1	12.5
50°-60°	1366.2	21.9
60°-70°	1709.5	27.4
70°-80°	998.9	16.0
80°-90°	178.2	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°	6228.0	100.0
0°-180°	6228.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946941

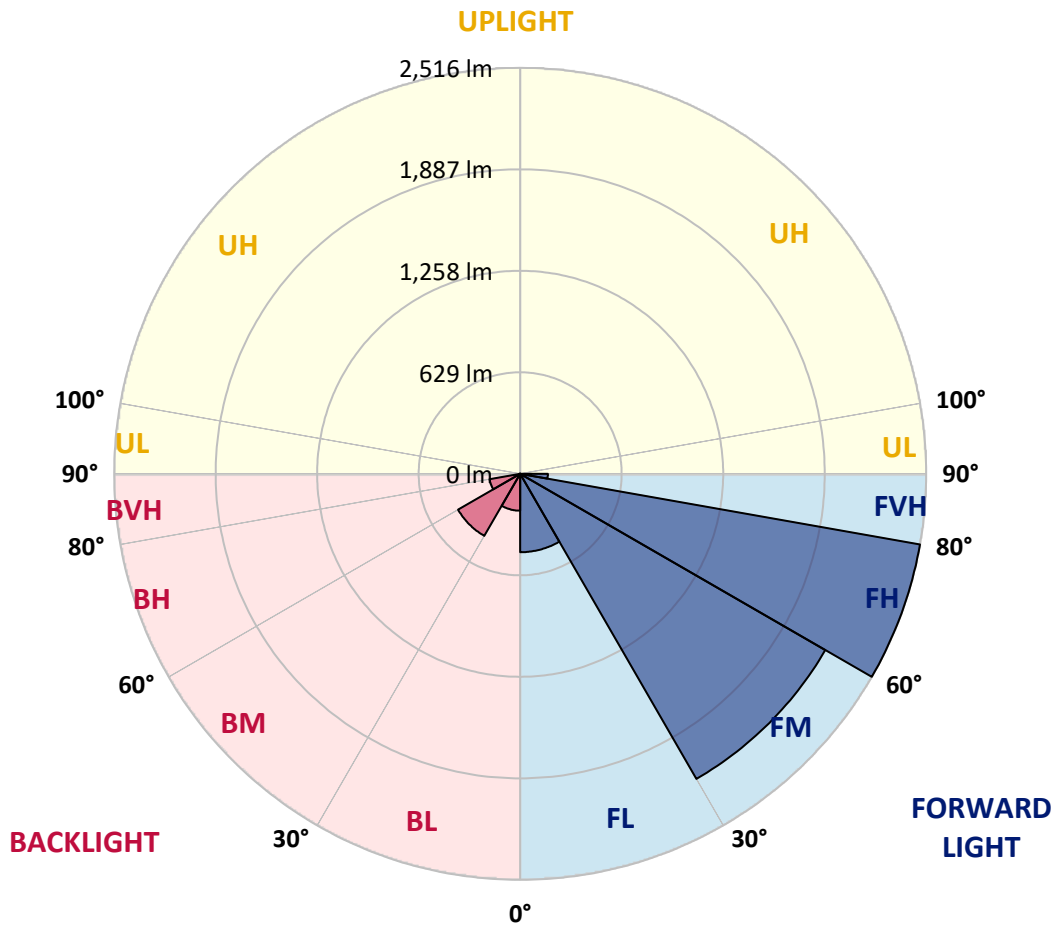
CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.8	7.8			
FM (30°-60°)	2182.8	35.0			
FH (60°-80°)	2515.8	40.4			G2/5000
FVH (80°-90°)	171.4	2.8			G2/225
BL (0°-30°)	228.6	3.7	B1/500		
BM (30°-60°)	444.1	7.1	B1/1000		
BH (60°-80°)	192.6	3.1	B1/500		G1/500
BVH (80°-90°)	6.8	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: P946941

CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
2.5°	974.4	957.6	947.8	923.3	898.8	879.1	852.5	834.9	813.9	793.7
5°	1085.9	1058.9	1026.3	981.7	940.9	899.3	858.9	819.0	777.0	738.4
7.5°	1180.3	1141.3	1083.8	1024.6	972.6	922.4	875.3	822.5	771.4	710.9
10°	1252.4	1202.6	1127.1	1049.4	989.8	939.2	893.3	848.6	797.2	724.2
12.5°	1296.1	1242.9	1153.3	1062.3	994.1	937.5	901.9	882.1	861.9	789.4
15°	1328.3	1270.8	1171.7	1071.3	984.2	914.7	888.6	908.3	931.5	885.1
17.5°	1361.8	1301.3	1195.7	1075.2	957.6	870.5	859.4	910.4	964.1	961.9
20°	1393.5	1333.5	1216.8	1072.6	914.7	816.9	826.8	892.0	954.2	980.4
22.5°	1430.0	1366.5	1236.9	1062.7	858.9	766.7	797.6	862.8	917.3	948.2
25°	1474.6	1408.1	1265.3	1048.2	798.9	725.1	768.0	828.9	873.1	894.6
27.5°	1522.7	1457.9	1303.0	1040.4	750.4	695.5	734.5	788.6	828.1	843.1
30°	1582.3	1515.8	1347.6	1031.9	718.6	678.3	699.8	741.8	780.4	795.4
32.5°	1647.5	1580.2	1390.5	1011.3	699.3	665.4	665.9	692.5	727.7	745.7
35°	1729.0	1657.4	1436.4	966.2	683.9	650.4	632.8	645.7	674.9	696.3
37.5°	1845.3	1758.7	1492.6	901.9	661.2	627.3	598.1	601.1	623.4	647.0
40°	2005.8	1894.7	1558.7	834.9	628.5	594.7	559.9	558.6	574.9	598.1
42.5°	2222.9	2074.4	1638.1	771.0	597.2	555.2	519.6	517.4	530.3	550.5
45°	2509.5	2304.4	1735.5	716.1	572.8	516.6	481.4	480.5	491.3	508.8
47.5°	2876.3	2624.0	1832.9	678.7	559.9	486.1	450.1	451.8	461.2	477.1
50°	3351.3	3040.6	1862.5	659.9	559.9	469.8	422.2	430.8	438.5	450.5
52.5°	3920.6	3440.5	1764.7	642.7	563.3	471.9	398.6	417.0	422.6	432.9
55°	4448.3	3636.6	1517.1	619.1	564.2	485.2	378.4	405.9	416.2	420.0
57.5°	4754.7	3569.2	1226.6	579.2	560.8	494.3	365.5	392.1	411.9	414.5
60°	4696.3	3332.8	903.1	548.7	535.4	490.8	361.7	371.1	402.4	406.3
62.5°	4246.7	2936.4	626.8	525.2	479.7	475.8	360.4	338.1	381.8	391.3
65°	3413.5	2311.7	442.8	452.2	420.5	443.2	353.5	303.8	357.0	369.8
67.5°	2476.4	1564.3	319.6	366.4	381.0	390.4	338.1	278.9	328.6	345.8
70°	1589.2	844.8	224.4	242.0	320.9	331.7	311.5	256.6	299.9	319.6
72.5°	1129.7	499.0	161.3	169.5	257.9	276.3	274.2	231.7	266.4	290.5
75°	779.6	275.0	109.0	121.0	187.1	224.4	211.5	199.1	225.7	250.1
77.5°	488.7	123.1	65.2	84.1	122.7	176.3	145.0	154.0	175.9	198.6
80°	272.0	47.6	36.5	55.8	66.9	128.3	80.2	99.1	129.6	145.9
82.5°	59.2	6.0	16.3	24.0	26.2	74.7	42.5	57.5	81.5	80.2
85°	0.0	0.0	3.0	3.4	1.7	32.2	15.4	18.9	26.6	24.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946941  
 CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
862.4	0°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
775.7	2.5°	772.3	751.3	735.8	728.1	721.7	727.7	731.1	731.1	745.7	754.3
714.8	5°	699.8	662.0	633.3	614.0	602.4	606.2	610.5	615.2	633.7	646.1
678.7	7.5°	649.6	591.7	547.9	520.9	506.7	508.8	511.8	515.7	533.7	546.2
683.9	10°	640.1	556.9	495.1	459.5	442.3	439.3	437.6	436.3	447.1	456.5
742.2	12.5°	678.7	558.6	472.4	429.0	408.0	399.0	388.7	380.6	382.3	388.3
830.6	15°	747.8	580.5	465.1	413.2	387.0	372.0	360.0	350.1	348.0	350.1
907.9	17.5°	826.8	610.1	464.2	399.4	366.8	351.4	341.5	332.5	329.5	329.9
951.2	20°	879.1	633.7	461.7	384.0	347.5	333.8	325.2	316.2	313.2	314.1
939.2	22.5°	884.3	646.1	457.8	366.8	328.2	316.6	308.1	299.9	299.5	299.5
894.1	25°	856.4	646.1	449.6	351.4	309.8	299.5	291.8	281.9	283.6	284.5
843.1	27.5°	813.0	630.7	434.2	338.9	293.9	283.2	275.4	266.4	268.6	269.9
795.4	30°	770.1	611.0	415.7	324.8	278.9	266.4	260.9	253.1	254.0	255.7
748.3	32.5°	730.2	589.9	393.9	313.2	263.9	251.4	247.1	238.5	239.8	241.6
701.9	35°	690.8	566.8	368.1	299.5	250.1	237.7	234.3	224.4	225.2	227.8
655.6	37.5°	648.3	542.3	347.1	285.7	236.8	224.0	220.5	210.2	211.1	214.1
607.5	40°	603.7	518.3	326.5	271.2	222.7	209.8	206.8	195.6	196.5	199.9
560.3	42.5°	558.6	492.1	310.6	252.3	208.1	194.4	191.4	181.1	182.3	186.2
519.1	45°	517.0	460.8	300.3	231.3	194.4	178.9	175.9	166.5	169.0	173.3
484.4	47.5°	481.4	428.6	296.0	213.7	179.8	163.0	160.5	152.7	157.0	161.7
454.8	50°	450.9	397.7	290.5	195.6	166.0	149.3	146.7	141.6	147.2	151.9
434.6	52.5°	429.0	362.5	278.4	179.3	154.0	137.7	136.9	134.3	139.4	143.7
419.6	55°	410.2	326.1	259.1	165.2	143.3	127.9	128.7	127.4	131.7	135.1
410.6	57.5°	393.0	294.3	234.7	154.0	131.7	119.3	121.8	120.1	122.3	124.4
401.2	60°	372.4	262.1	205.5	141.6	118.0	110.7	113.7	109.0	108.5	109.4
384.0	62.5°	341.9	218.8	175.1	126.1	106.0	101.3	102.5	93.5	86.7	86.7
358.7	65°	299.5	175.9	146.7	109.0	92.2	88.4	87.5	74.7	65.2	64.4
331.2	67.5°	250.1	144.6	121.8	91.8	76.8	74.2	75.1	65.6	56.2	55.3
303.8	70°	203.8	119.7	98.3	73.4	59.2	61.8	65.6	56.2	47.2	45.9
271.6	72.5°	165.6	95.2	76.8	56.2	43.8	51.1	55.8	45.9	37.3	36.5
231.7	75°	127.9	69.9	54.9	38.2	31.7	39.5	43.8	33.5	26.6	25.3
179.3	77.5°	85.4	43.3	30.9	24.0	18.9	27.0	29.2	17.6	15.4	15.0
130.4	80°	51.9	20.2	13.3	11.6	6.4	9.9	11.6	7.3	8.2	8.6
69.5	82.5°	26.2	5.6	2.1	0.4	0.0	0.0	3.4	1.7	3.4	4.3
18.9	85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1
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: P946941  
 CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
862.4	0°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
757.7	2.5°	781.7	799.7	816.9	844.4	872.7	900.6	928.9	956.3	966.2	973.5
654.3	5°	691.6	725.5	765.0	819.5	877.8	937.9	998.8	1054.6	1079.9	1097.1
556.9	7.5°	598.5	642.7	699.3	781.3	872.7	968.4	1064.0	1152.0	1192.7	1225.8
465.1	10°	506.3	554.3	626.0	719.5	843.1	980.4	1112.5	1233.5	1286.3	1327.9
399.0	12.5°	425.2	470.2	545.3	648.7	796.7	970.9	1140.4	1285.8	1348.1	1394.8
351.8	15°	368.1	399.9	466.4	577.9	741.8	940.5	1142.1	1310.7	1378.9	1427.9
332.1	17.5°	336.4	347.1	390.4	505.8	680.9	900.6	1126.2	1319.3	1392.2	1437.7
314.5	20°	319.2	320.9	332.9	412.3	602.8	863.2	1111.2	1327.9	1404.7	1442.9
302.0	22.5°	305.5	305.5	308.5	337.2	502.0	818.6	1106.5	1342.9	1421.9	1445.4
287.9	25°	293.0	293.0	293.9	301.6	397.7	750.4	1103.5	1366.1	1445.4	1451.9
273.7	27.5°	280.2	280.6	280.6	284.9	320.5	657.7	1090.6	1396.1	1473.8	1460.5
260.0	30°	267.3	268.2	268.2	271.2	283.6	549.2	1065.3	1432.1	1510.7	1471.6
246.3	32.5°	254.4	255.3	255.3	257.9	266.9	438.5	1033.6	1465.2	1548.0	1476.3
233.0	35°	241.1	242.4	241.6	245.0	254.4	348.8	993.2	1498.2	1588.3	1491.4
220.1	37.5°	227.8	228.7	228.3	231.7	242.4	301.2	946.5	1523.1	1643.2	1524.8
206.4	40°	214.5	214.1	214.1	218.0	229.5	287.5	887.7	1562.6	1722.2	1583.6
192.6	42.5°	200.8	200.8	199.9	204.2	218.4	277.2	831.5	1633.4	1837.2	1677.1
179.8	45°	188.4	187.9	186.2	190.1	207.7	259.1	811.8	1765.5	2007.1	1828.6
166.9	47.5°	176.3	175.9	171.6	175.1	194.8	242.8	885.5	1981.8	2242.6	2051.3
156.6	50°	165.6	166.0	157.9	160.9	181.9	230.4	1045.6	2262.3	2555.4	2351.2
148.0	52.5°	155.7	155.7	145.0	146.7	166.0	219.2	1197.9	2566.5	2968.1	2769.5
139.0	55°	145.9	145.0	133.0	133.9	150.2	203.4	1220.6	2863.4	3531.0	3398.9
129.1	57.5°	134.7	133.0	121.8	121.8	135.6	191.8	1058.0	3091.7	4229.5	4323.9
110.7	60°	121.0	119.7	112.4	110.3	124.0	202.1	746.5	3118.3	4680.0	5554.0
88.0	62.5°	103.4	105.1	101.3	98.3	112.8	209.8	442.3	2904.2	4571.0	5945.3
68.2	65°	81.5	88.4	87.5	85.4	124.0	176.8	261.3	2493.2	4236.8	5629.5
59.6	67.5°	69.5	74.2	72.9	72.9	130.0	134.3	164.3	1947.9	3776.9	5254.9
49.8	70°	59.2	63.9	59.2	59.2	98.3	81.5	113.7	1360.1	3280.5	4840.5
39.9	72.5°	48.9	53.6	48.5	45.0	78.5	60.9	83.2	849.9	2809.4	4408.9
28.3	75°	37.3	42.9	39.0	34.8	51.9	45.5	63.1	493.8	2327.6	3772.2
17.2	77.5°	23.6	30.9	29.2	24.5	38.2	33.0	45.5	293.9	1796.0	2947.5
10.3	80°	14.6	15.9	16.3	15.4	21.9	22.3	30.9	167.3	1229.2	2054.3
6.4	82.5°	9.4	9.4	7.3	8.2	10.7	12.9	17.6	63.1	722.5	1250.7
3.9	85°	6.9	6.0	3.9	3.9	5.1	6.4	6.9	19.3	293.0	493.8
1.7	87.5°	3.4	3.0	1.3	1.7	2.6	2.1	1.7	0.9	73.8	157.9
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: P946941  
 CATALOG NUMBER: GALN-SB2B-940-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
862.4	0°	862.4	862.4	862.4	862.4	862.4	862.4	862.4	862.4
989.8	2.5°	998.4	1011.7	1012.5	1012.5	1001.0	1000.5	976.9	974.4
1135.7	5°	1175.6	1184.2	1186.3	1182.0	1158.8	1141.7	1095.8	1085.9
1284.6	7.5°	1337.8	1354.9	1354.9	1344.6	1306.9	1271.7	1205.2	1180.3
1407.7	10°	1467.3	1487.1	1482.8	1461.8	1414.1	1365.6	1285.0	1252.4
1482.3	12.5°	1530.4	1550.6	1539.4	1515.4	1469.0	1418.0	1333.0	1296.1
1503.8	15°	1529.1	1523.5	1512.0	1508.9	1486.6	1448.0	1368.7	1328.3
1490.5	17.5°	1474.6	1427.4	1418.4	1448.5	1476.8	1467.3	1399.5	1361.8
1458.8	20°	1388.4	1306.0	1297.9	1355.4	1436.0	1477.2	1428.3	1393.5
1412.8	22.5°	1297.4	1208.6	1189.7	1253.2	1374.7	1480.2	1464.8	1430.0
1362.2	25°	1211.2	1122.0	1103.1	1162.3	1306.4	1475.1	1504.2	1474.6
1313.7	27.5°	1139.1	1052.9	1035.3	1094.5	1240.8	1460.5	1543.7	1522.7
1265.7	30°	1083.3	1003.5	990.7	1047.7	1184.2	1442.4	1593.9	1582.3
1221.1	32.5°	1050.7	992.4	997.1	1043.9	1153.7	1422.7	1642.0	1647.5
1199.2	35°	1082.9	1085.5	1126.7	1146.0	1182.0	1419.7	1707.2	1729.0
1225.4	37.5°	1242.9	1332.2	1417.6	1401.7	1320.6	1454.5	1804.6	1845.3
1339.5	40°	1515.4	1698.6	1837.2	1776.7	1572.4	1560.9	1944.9	2005.8
1542.0	42.5°	1848.3	2159.0	2387.2	2225.0	1897.2	1747.1	2145.2	2222.9
1787.0	45°	2199.7	2726.6	3086.1	2748.9	2243.5	2007.9	2448.6	2509.5
2016.5	47.5°	2570.0	3416.5	3881.6	3329.8	2564.4	2304.8	2862.2	2876.3
2234.0	50°	2975.0	4172.9	4692.5	3910.3	2874.2	2645.1	3367.6	3351.3
2487.6	52.5°	3360.7	4950.7	5486.2	4493.4	3146.2	3067.2	3954.1	3920.6
2834.3	55°	3728.8	5728.2	6284.6	5053.7	3402.7	3625.0	4650.8	4448.3
3334.1	57.5°	4155.7	6427.1	7107.5	5616.6	3761.4	4349.2	5430.0	4754.7
4291.3	60°	4786.8	7221.2	8038.1	6388.0	4443.6	5110.3	5709.3	4696.3
5437.7	62.5°	5592.6	7951.5	8714.7	7144.0	5128.8	5253.6	5297.8	4246.7
5203.9	65°	5749.2	8136.4	8752.9	7346.1	5040.4	4456.5	4325.2	3413.5
4648.3	67.5°	5333.9	7802.2	8219.2	6969.8	4458.6	3443.9	3245.7	2476.4
4283.6	70°	4867.9	7165.0	7289.0	6330.1	3921.5	2533.1	2192.0	1589.2
4033.9	72.5°	4390.4	6315.1	6058.5	5497.3	3446.5	1844.5	1581.0	1129.7
3678.2	75°	3823.2	5197.4	4772.3	4567.6	2853.6	1447.6	1143.8	779.6
3163.8	77.5°	3061.7	3658.5	3544.8	3540.5	2144.4	1057.6	763.3	488.7
2471.7	80°	2159.8	2374.3	2316.4	2666.5	1438.6	767.1	459.5	272.0
1720.5	82.5°	1045.6	1312.9	1347.6	1587.9	699.8	451.4	106.0	59.2
672.7	85°	409.3	633.3	534.2	602.8	196.5	125.7	2.6	0.0
110.7	87.5°	45.9	73.4	67.4	53.2	24.0	5.1	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)