

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: P946227

Luminaire Tested: **GALN-SB1D-940-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946227  
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-940-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

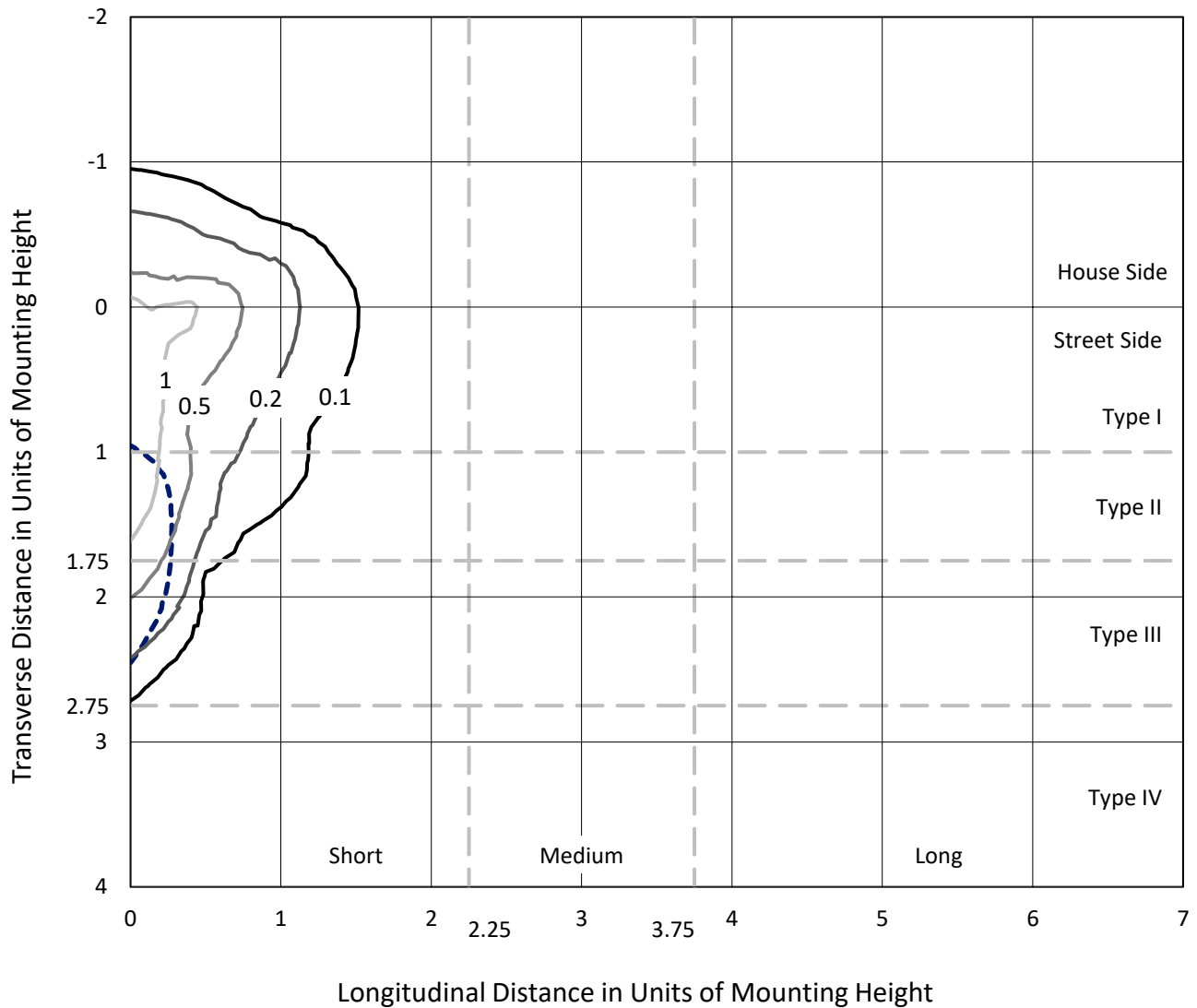
Lumens per Lamp: N/A  
Luminaire Lumens: 5630 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946227  
 CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

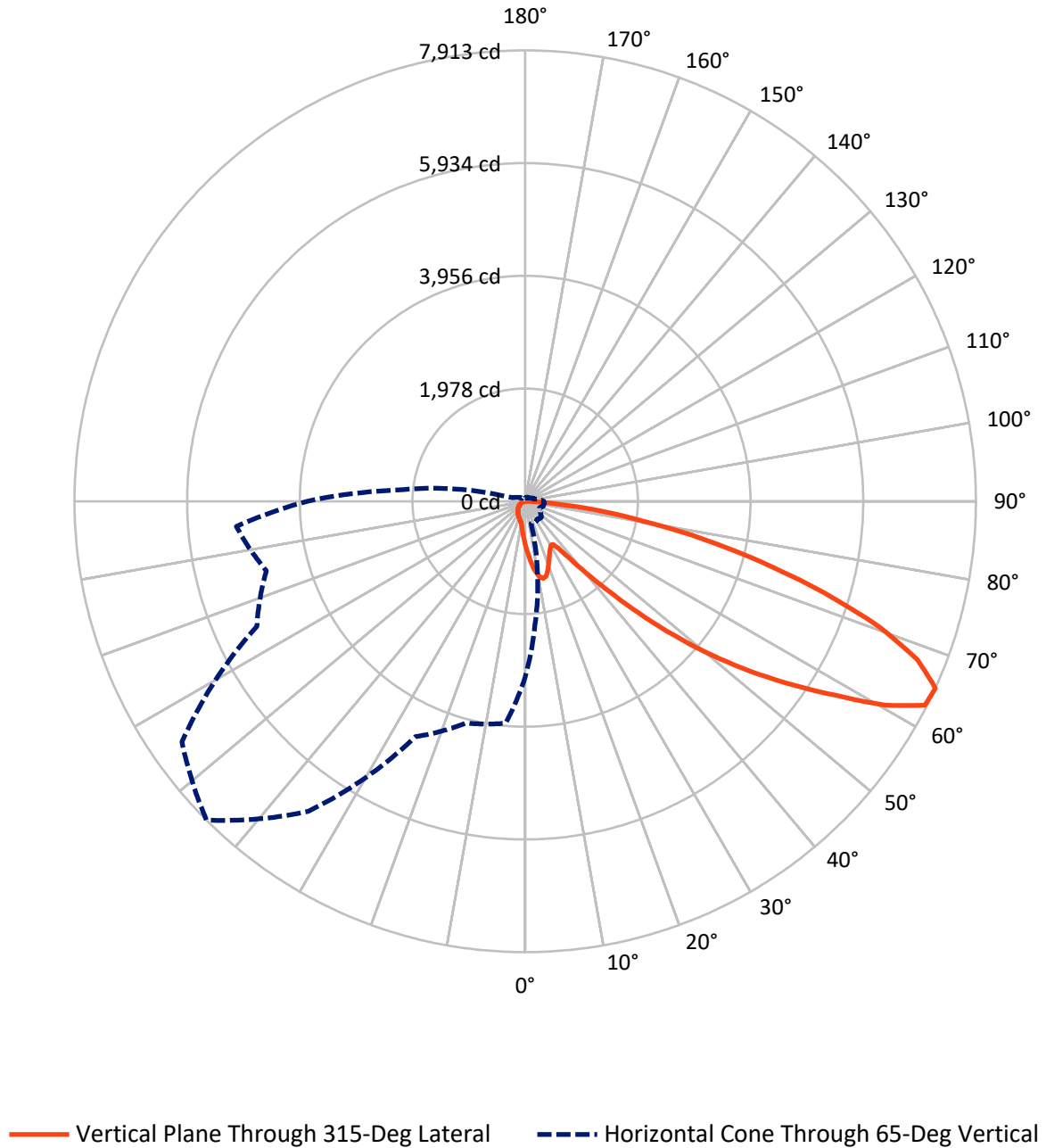
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P946227  
CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P946227

CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	788.4	0.0	788.4
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4841.6	0.0	4841.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	5630.0	0.0	5630.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.8	1.4
10°-20°	230.1	4.1
20°-30°	339.0	6.0
30°-40°	435.5	7.7
40°-50°	704.3	12.5
50°-60°	1235.0	21.9
60°-70°	1545.3	27.4
70°-80°	903.0	16.0
80°-90°	161.1	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°	5630.0	100.0
0°-180°	5630.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946227

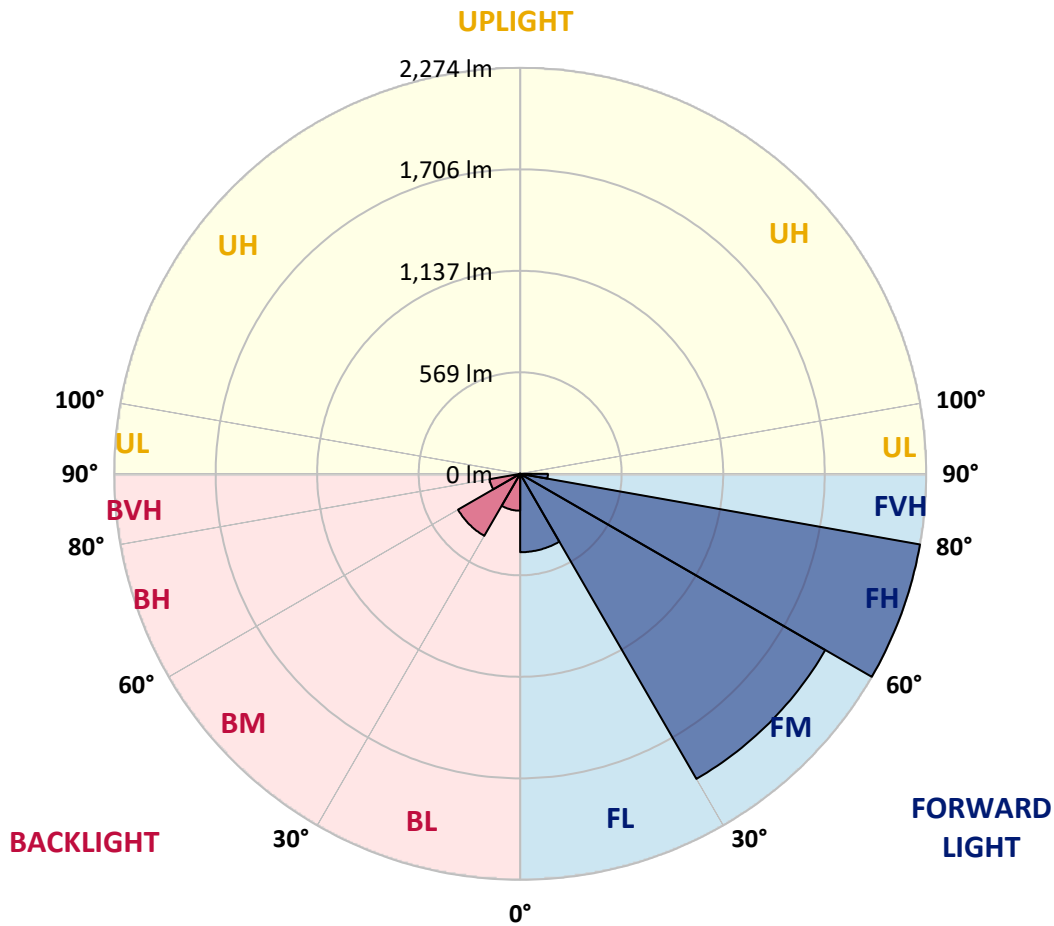
CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.1	7.8			
FM (30°-60°)	1973.3	35.0			
FH (60°-80°)	2274.3	40.4			G2/5000
FVH (80°-90°)	154.9	2.8			G2/225
BL (0°-30°)	206.7	3.7	B1/500		
BM (30°-60°)	401.5	7.1	B1/1000		
BH (60°-80°)	174.1	3.1	B1/500		G1/500
BVH (80°-90°)	6.2	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: P946227

CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
2.5°	880.8	865.7	856.8	834.6	812.5	794.7	770.7	754.8	735.7	717.5
5°	981.6	957.2	927.7	887.4	850.6	812.9	776.5	740.4	702.4	667.5
7.5°	1067.0	1031.7	979.7	926.2	879.3	833.9	791.2	743.5	697.4	642.7
10°	1132.1	1087.1	1018.9	948.7	894.8	849.0	807.5	767.2	720.6	654.7
12.5°	1171.7	1123.6	1042.5	960.3	898.6	847.4	815.3	797.4	779.2	713.6
15°	1200.8	1148.8	1059.2	968.5	889.7	826.9	803.2	821.1	842.0	800.1
17.5°	1231.0	1176.3	1080.9	971.9	865.7	786.9	776.9	823.0	871.5	869.6
20°	1259.7	1205.4	1099.9	969.6	826.9	738.5	747.4	806.3	862.6	886.2
22.5°	1292.7	1235.3	1118.2	960.7	776.5	693.1	721.0	780.0	829.2	857.1
25°	1333.0	1272.9	1143.8	947.5	722.2	655.5	694.2	749.3	789.3	808.7
27.5°	1376.5	1317.9	1177.9	940.5	678.3	628.7	664.0	712.9	748.5	762.1
30°	1430.4	1370.3	1218.2	932.8	649.6	613.2	632.6	670.6	705.5	719.1
32.5°	1489.3	1428.4	1257.0	914.2	632.2	601.6	601.9	626.0	657.8	674.1
35°	1563.0	1498.3	1298.5	873.4	618.2	588.0	572.1	583.7	610.1	629.5
37.5°	1668.1	1589.8	1349.3	815.3	597.7	567.0	540.7	543.4	563.5	584.9
40°	1813.2	1712.7	1409.1	754.8	568.2	537.6	506.1	505.0	519.7	540.7
42.5°	2009.4	1875.2	1480.8	697.0	539.9	501.9	469.7	467.7	479.4	497.6
45°	2268.5	2083.1	1568.8	647.3	517.8	467.0	435.2	434.4	444.1	460.0
47.5°	2600.1	2372.1	1656.9	613.6	506.1	439.4	406.9	408.4	416.9	431.3
50°	3029.5	2748.7	1683.6	596.5	506.1	424.7	381.6	389.4	396.4	407.2
52.5°	3544.2	3110.2	1595.2	581.0	509.2	426.6	360.3	377.0	382.0	391.3
55°	4021.2	3287.4	1371.4	559.7	510.0	438.7	342.1	366.9	376.2	379.7
57.5°	4298.1	3226.5	1108.9	523.6	506.9	446.8	330.4	354.5	372.3	374.7
60°	4245.4	3012.8	816.4	496.1	484.0	443.7	327.0	335.5	363.8	367.3
62.5°	3838.9	2654.4	566.6	474.7	433.6	430.1	325.8	305.6	345.2	353.7
65°	3085.7	2089.7	400.3	408.8	380.1	400.6	319.6	274.6	322.7	334.3
67.5°	2238.7	1414.1	288.9	331.2	344.4	352.9	305.6	252.1	297.1	312.6
70°	1436.6	763.7	202.8	218.7	290.1	299.8	281.6	231.9	271.1	288.9
72.5°	1021.2	451.1	145.8	153.2	233.1	249.8	247.8	209.4	240.9	262.6
75°	704.7	248.6	98.5	109.4	169.1	202.8	191.2	180.0	204.0	226.1
77.5°	441.8	111.3	59.0	76.0	110.9	159.4	131.1	139.2	159.0	179.6
80°	245.9	43.1	33.0	50.4	60.5	116.0	72.5	89.6	117.1	131.9
82.5°	53.5	5.4	14.7	21.7	23.7	67.5	38.4	52.0	73.7	72.5
85°	0.0	0.0	2.7	3.1	1.6	29.1	14.0	17.1	24.0	22.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946227  
 CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
779.6	0°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
701.2	2.5°	698.1	679.1	665.2	658.2	652.4	657.8	660.9	660.9	674.1	681.8
646.2	5°	632.6	598.4	572.5	555.0	544.5	548.0	551.9	556.2	572.9	584.1
613.6	7.5°	587.2	534.8	495.3	470.8	458.0	460.0	462.7	466.2	482.5	493.7
618.2	10°	578.7	503.4	447.6	415.4	399.9	397.2	395.6	394.4	404.1	412.7
671.0	12.5°	613.6	505.0	427.0	387.8	368.8	360.7	351.4	344.0	345.6	351.0
750.9	15°	676.0	524.8	420.4	373.5	349.8	336.3	325.4	316.5	314.5	316.5
820.7	17.5°	747.4	551.5	419.7	361.1	331.6	317.6	308.7	300.6	297.9	298.3
859.9	20°	794.7	572.9	417.3	347.1	314.2	301.7	294.0	285.8	283.1	283.9
849.0	22.5°	799.4	584.1	413.8	331.6	296.7	286.2	278.5	271.1	270.7	270.7
808.3	25°	774.1	584.1	406.5	317.6	280.0	270.7	263.7	254.8	256.4	257.1
762.1	27.5°	735.0	570.1	392.5	306.4	265.7	256.0	249.0	240.9	242.8	244.0
719.1	30°	696.2	552.3	375.8	293.6	252.1	240.9	235.8	228.8	229.6	231.2
676.4	32.5°	660.1	533.3	356.0	283.1	238.5	227.3	223.4	215.6	216.8	218.4
634.5	35°	624.4	512.3	332.8	270.7	226.1	214.9	211.8	202.8	203.6	205.9
592.6	37.5°	586.0	490.2	313.8	258.3	214.1	202.5	199.4	190.0	190.8	193.5
549.2	40°	545.7	468.5	295.2	245.1	201.3	189.7	186.9	176.9	177.6	180.7
506.5	42.5°	505.0	444.9	280.8	228.1	188.1	175.7	173.0	163.7	164.8	168.3
469.3	45°	467.4	416.5	271.5	209.1	175.7	161.7	159.0	150.5	152.8	156.7
437.9	47.5°	435.2	387.5	267.6	193.1	162.5	147.4	145.1	138.1	142.0	146.2
411.1	50°	407.6	359.5	262.6	176.9	150.1	135.0	132.6	128.0	133.0	137.3
392.9	52.5°	387.8	327.7	251.7	162.1	139.2	124.5	123.7	121.4	126.1	129.9
379.3	55°	370.8	294.8	234.3	149.3	129.5	115.6	116.4	115.2	119.1	122.2
371.2	57.5°	355.3	266.1	212.2	139.2	119.1	107.8	110.1	108.6	110.5	112.5
362.6	60°	336.7	237.0	185.8	128.0	106.7	100.1	102.8	98.5	98.1	98.9
347.1	62.5°	309.1	197.8	158.2	114.0	95.8	91.5	92.7	84.6	78.3	78.3
324.2	65°	270.7	159.0	132.6	98.5	83.4	79.9	79.1	67.5	59.0	58.2
299.4	67.5°	226.1	130.7	110.1	83.0	69.4	67.1	67.9	59.3	50.8	50.0
274.6	70°	184.2	108.2	88.8	66.3	53.5	55.9	59.3	50.8	42.7	41.5
245.5	72.5°	149.7	86.1	69.4	50.8	39.6	46.2	50.4	41.5	33.7	33.0
209.4	75°	115.6	63.2	49.6	34.5	28.7	35.7	39.6	30.3	24.0	22.9
162.1	77.5°	77.2	39.2	27.9	21.7	17.1	24.4	26.4	15.9	14.0	13.6
117.9	80°	46.9	18.2	12.0	10.5	5.8	8.9	10.5	6.6	7.4	7.8
62.8	82.5°	23.7	5.0	1.9	0.4	0.0	0.0	3.1	1.6	3.1	3.9
17.1	85°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.9
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: P946227  
 CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
779.6	0°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
684.9	2.5°	706.7	722.9	738.5	763.3	788.9	814.1	839.7	864.5	873.4	880.0
591.5	5°	625.2	655.9	691.5	740.8	793.5	847.8	902.9	953.3	976.2	991.7
503.4	7.5°	541.0	581.0	632.2	706.3	788.9	875.4	961.9	1041.4	1078.2	1108.1
420.4	10°	457.7	501.1	565.9	650.4	762.1	886.2	1005.7	1115.1	1162.8	1200.4
360.7	12.5°	384.4	425.1	493.0	586.4	720.2	877.7	1030.9	1162.4	1218.6	1260.9
318.0	15°	332.8	361.5	421.6	522.4	670.6	850.2	1032.5	1184.9	1246.5	1290.8
300.2	17.5°	304.1	313.8	352.9	457.3	615.5	814.1	1018.1	1192.6	1258.6	1299.7
284.3	20°	288.6	290.1	301.0	372.7	544.9	780.4	1004.5	1200.4	1269.8	1304.3
273.0	22.5°	276.1	276.1	278.9	304.8	453.8	740.0	1000.3	1214.0	1285.3	1306.7
260.2	25°	264.9	264.9	265.7	272.7	359.5	678.3	997.5	1234.9	1306.7	1312.5
247.4	27.5°	253.3	253.7	253.7	257.5	289.7	594.6	985.9	1262.1	1332.3	1320.2
235.0	30°	241.6	242.4	242.4	245.1	256.4	496.4	963.0	1294.6	1365.6	1330.3
222.6	32.5°	230.0	230.8	230.8	233.1	241.2	396.4	934.3	1324.5	1399.4	1334.6
210.6	35°	218.0	219.1	218.4	221.5	230.0	315.3	897.9	1354.4	1435.8	1348.2
199.0	37.5°	205.9	206.7	206.3	209.4	219.1	272.3	855.6	1376.9	1485.5	1378.4
186.6	40°	193.9	193.5	193.5	197.0	207.5	259.9	802.5	1412.5	1556.8	1431.5
174.1	42.5°	181.5	181.5	180.7	184.6	197.4	250.5	751.6	1476.5	1660.8	1516.1
162.5	45°	170.3	169.9	168.3	171.8	187.7	234.3	733.8	1596.0	1814.4	1653.0
150.9	47.5°	159.4	159.0	155.1	158.2	176.1	219.5	800.5	1791.5	2027.3	1854.3
141.6	50°	149.7	150.1	142.7	145.4	164.4	208.3	945.2	2045.1	2310.0	2125.4
133.8	52.5°	140.8	140.8	131.1	132.6	150.1	198.2	1082.9	2320.1	2683.1	2503.6
125.7	55°	131.9	131.1	120.2	121.0	135.7	183.8	1103.4	2588.5	3192.0	3072.5
116.7	57.5°	121.8	120.2	110.1	110.1	122.6	173.4	956.4	2794.8	3823.4	3908.7
100.1	60°	109.4	108.2	101.6	99.7	112.1	182.7	674.9	2818.9	4230.6	5020.7
79.5	62.5°	93.5	95.0	91.5	88.8	102.0	189.7	399.9	2625.3	4132.1	5374.4
61.7	65°	73.7	79.9	79.1	77.2	112.1	159.8	236.2	2253.8	3830.0	5089.0
53.9	67.5°	62.8	67.1	65.9	65.9	117.5	121.4	148.5	1760.8	3414.2	4750.4
45.0	70°	53.5	57.8	53.5	53.5	88.8	73.7	102.8	1229.5	2965.5	4375.7
36.1	72.5°	44.2	48.5	43.8	40.7	71.0	55.1	75.2	768.3	2539.6	3985.5
25.6	75°	33.7	38.8	35.3	31.4	46.9	41.1	57.0	446.4	2104.1	3410.0
15.5	77.5°	21.3	27.9	26.4	22.1	34.5	29.9	41.1	265.7	1623.5	2664.5
9.3	80°	13.2	14.4	14.7	14.0	19.8	20.2	27.9	151.3	1111.2	1857.0
5.8	82.5°	8.5	8.5	6.6	7.4	9.7	11.6	15.9	57.0	653.1	1130.6
3.5	85°	6.2	5.4	3.5	3.5	4.7	5.8	6.2	17.5	264.9	446.4
1.6	87.5°	3.1	2.7	1.2	1.6	2.3	1.9	1.6	0.8	66.7	142.7
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: P946227  
 CATALOG NUMBER: GALN-SB1D-940-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
779.6	0°	779.6	779.6	779.6	779.6	779.6	779.6	779.6	779.6
894.8	2.5°	902.5	914.5	915.3	915.3	904.8	904.5	883.1	880.8
1026.6	5°	1062.7	1070.5	1072.4	1068.5	1047.6	1032.1	990.6	981.6
1161.2	7.5°	1209.3	1224.8	1224.8	1215.5	1181.4	1149.6	1089.5	1067.0
1272.5	10°	1326.4	1344.3	1340.4	1321.4	1278.3	1234.5	1161.6	1132.1
1340.0	12.5°	1383.5	1401.7	1391.6	1369.9	1328.0	1281.8	1205.0	1171.7
1359.4	15°	1382.3	1377.2	1366.8	1364.1	1343.9	1309.0	1237.2	1200.8
1347.4	17.5°	1333.0	1290.4	1282.2	1309.4	1335.0	1326.4	1265.2	1231.0
1318.7	20°	1255.1	1180.6	1173.2	1225.2	1298.1	1335.4	1291.1	1259.7
1277.2	22.5°	1172.9	1092.6	1075.5	1132.9	1242.7	1338.1	1324.1	1292.7
1231.4	25°	1094.9	1014.2	997.2	1050.7	1181.0	1333.4	1359.8	1333.0
1187.6	27.5°	1029.7	951.8	935.9	989.4	1121.7	1320.2	1395.5	1376.5
1144.2	30°	979.3	907.2	895.5	947.1	1070.5	1303.9	1440.9	1430.4
1103.8	32.5°	949.8	897.1	901.4	943.6	1042.9	1286.1	1484.3	1489.3
1084.0	35°	978.9	981.3	1018.5	1035.9	1068.5	1283.4	1543.2	1563.0
1107.7	37.5°	1123.6	1204.3	1281.5	1267.1	1193.8	1314.8	1631.3	1668.1
1210.9	40°	1369.9	1535.5	1660.8	1606.1	1421.5	1411.0	1758.1	1813.2
1393.9	42.5°	1670.8	1951.7	2158.0	2011.4	1715.1	1579.3	1939.2	2009.4
1615.4	45°	1988.5	2464.8	2789.8	2484.9	2028.1	1815.1	2213.4	2268.5
1822.9	47.5°	2323.2	3088.4	3508.9	3010.1	2318.2	2083.5	2587.3	2600.1
2019.5	50°	2689.3	3772.2	4241.9	3534.8	2598.2	2391.1	3044.2	3029.5
2248.7	52.5°	3038.0	4475.4	4959.4	4061.9	2844.1	2772.7	3574.4	3544.2
2562.1	55°	3370.8	5178.2	5681.2	4568.5	3076.0	3276.9	4204.3	4021.2
3014.0	57.5°	3756.7	5810.0	6425.1	5077.3	3400.3	3931.6	4908.6	4298.1
3879.3	60°	4327.2	6527.9	7266.3	5774.7	4016.9	4619.7	5161.1	4245.4
4915.6	62.5°	5055.6	7188.0	7878.0	6458.1	4636.3	4749.2	4789.1	3838.9
4704.2	65°	5197.2	7355.2	7912.5	6640.7	4556.4	4028.6	3909.9	3085.7
4201.9	67.5°	4821.7	7053.0	7430.0	6300.6	4030.5	3113.3	2934.1	2238.7
3872.3	70°	4400.5	6477.1	6589.2	5722.3	3544.9	2289.9	1981.5	1436.6
3646.5	72.5°	3968.9	5708.7	5476.8	4969.5	3115.6	1667.4	1429.2	1021.2
3325.0	75°	3456.1	4698.4	4314.0	4129.0	2579.6	1308.6	1034.0	704.7
2860.0	77.5°	2767.7	3307.2	3204.4	3200.5	1938.5	956.0	690.0	441.8
2234.4	80°	1952.4	2146.4	2094.0	2410.5	1300.5	693.5	415.4	245.9
1555.3	82.5°	945.2	1186.8	1218.2	1435.4	632.6	408.0	95.8	53.5
608.1	85°	370.0	572.5	482.9	544.9	177.6	113.6	2.3	0.0
100.1	87.5°	41.5	66.3	60.9	48.1	21.7	4.7	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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