

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: P946689

Luminaire Tested: **GALN-SB2B-735-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946689  
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-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

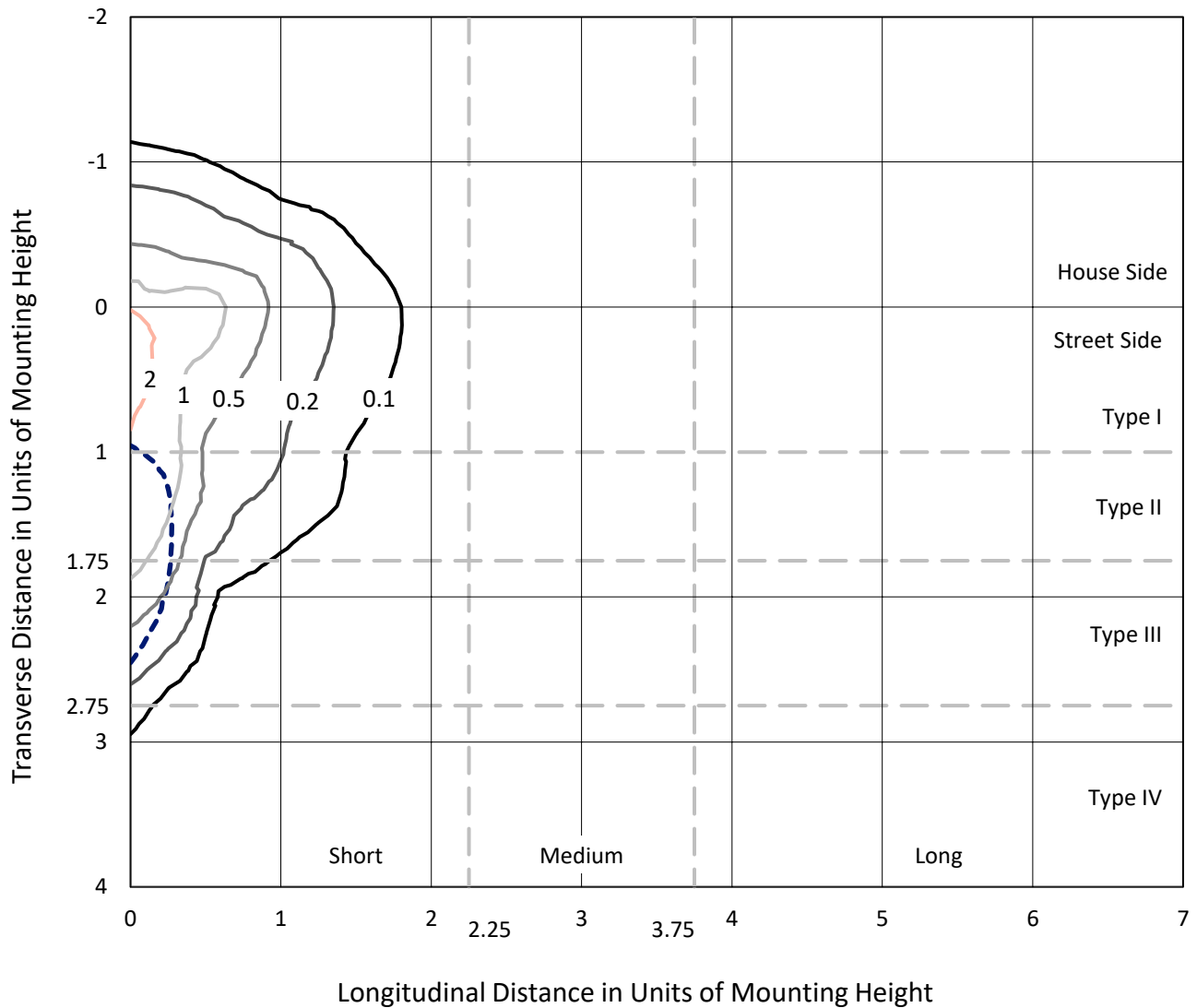
Lumens per Lamp: N/A  
Luminaire Lumens: 8594 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946689  
 CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

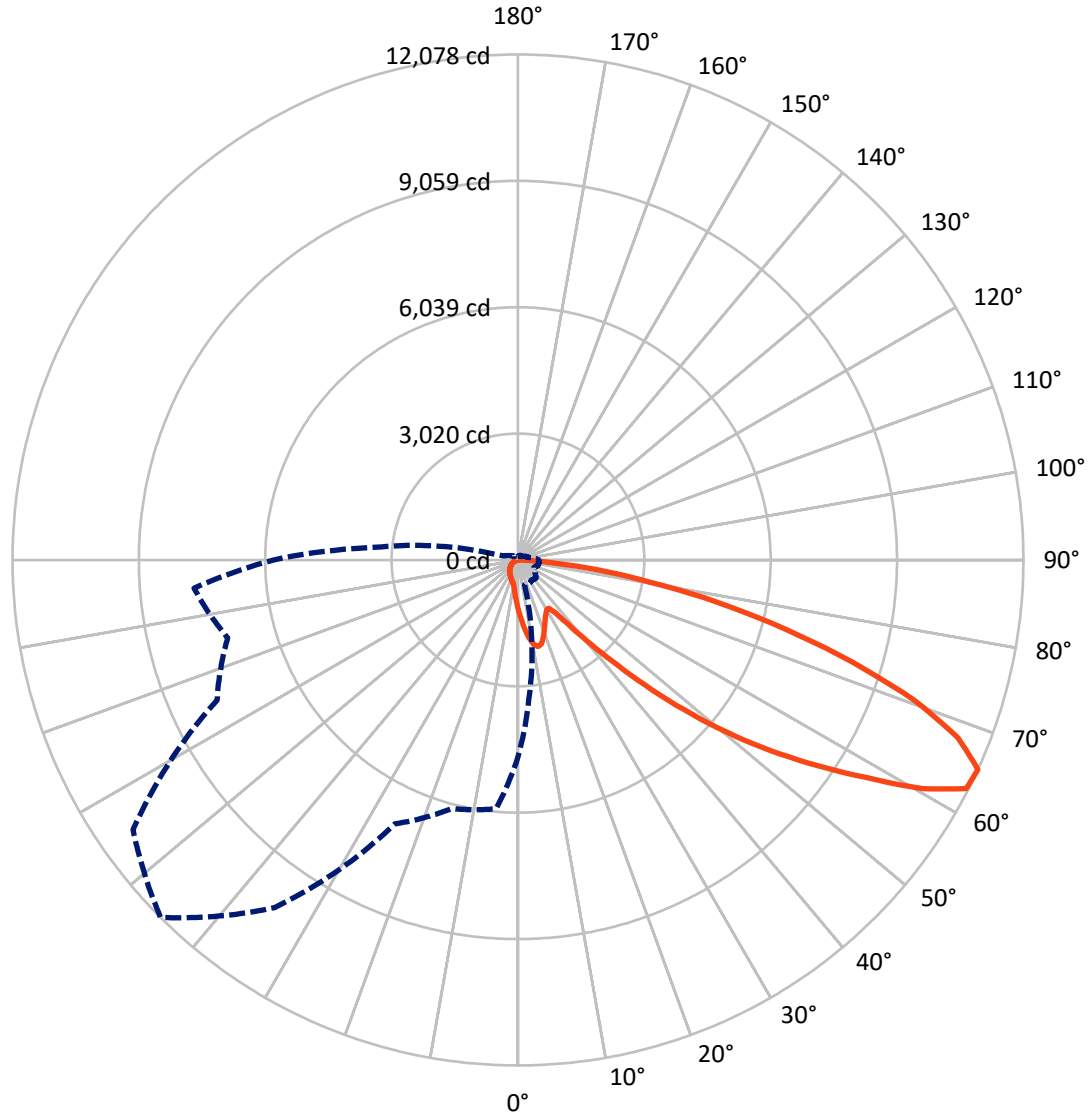
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P946689  
CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P946689  
 CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1203.5	0.0	1203.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7390.5	0.0	7390.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8594.0	0.0	8594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.2	1.4
10°-20°	351.2	4.1
20°-30°	517.4	6.0
30°-40°	664.7	7.7
40°-50°	1075.0	12.5
50°-60°	1885.2	21.9
60°-70°	2358.9	27.4
70°-80°	1378.4	16.0
80°-90°	245.9	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°	8594.0	100.0
0°-180°	8594.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946689

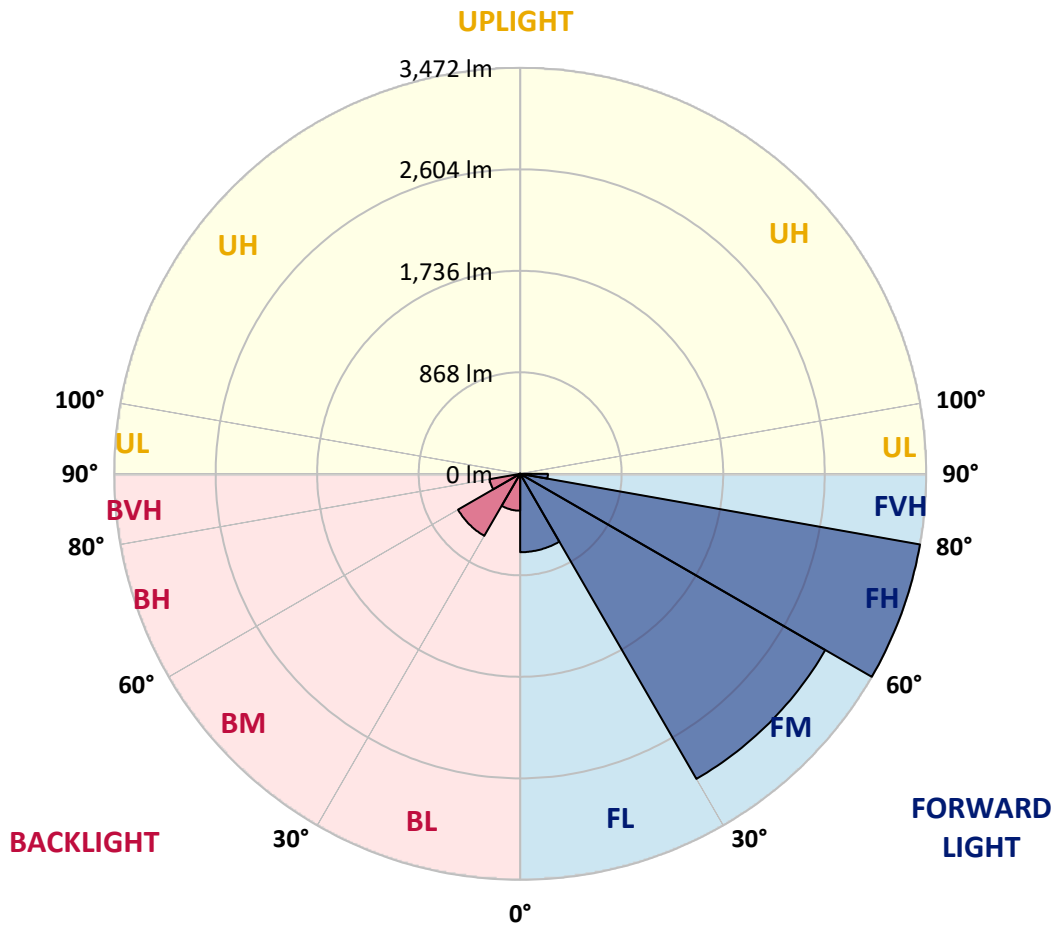
CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.3	7.8			
FM (30°-60°)	3012.1	35.0			
FH (60°-80°)	3471.6	40.4			G2/5000
FVH (80°-90°)	236.5	2.8			G3/500
BL (0°-30°)	315.5	3.7	B1/500		
BM (30°-60°)	612.9	7.1	B1/1000		
BH (60°-80°)	265.8	3.1	B1/500		G1/500
BVH (80°-90°)	9.4	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-G3**

Type IV Short



REPORT NUMBER: P946689  
 CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1344.5	1321.4	1307.8	1274.1	1240.3	1213.1	1176.4	1152.1	1123.1	1095.3
5°	1498.4	1461.1	1416.2	1354.6	1298.3	1240.9	1185.3	1130.2	1072.2	1018.9
7.5°	1628.7	1574.8	1495.5	1413.8	1342.1	1272.9	1207.8	1134.9	1064.5	981.0
10°	1728.2	1659.5	1555.3	1448.1	1365.8	1296.0	1232.6	1171.0	1100.0	999.4
12.5°	1788.5	1715.1	1591.4	1465.9	1371.7	1293.6	1244.5	1217.2	1189.4	1089.3
15°	1832.9	1753.6	1616.9	1478.3	1358.1	1262.2	1226.1	1253.3	1285.3	1221.4
17.5°	1879.1	1795.6	1650.0	1483.6	1321.4	1201.2	1185.8	1256.3	1330.3	1327.3
20°	1922.9	1840.1	1679.0	1480.1	1262.2	1127.2	1140.9	1230.8	1316.7	1352.8
22.5°	1973.3	1885.6	1706.8	1466.5	1185.3	1058.0	1100.6	1190.6	1265.8	1308.4
25°	2034.8	1943.1	1745.9	1446.3	1102.4	1000.5	1059.7	1143.8	1204.8	1234.4
27.5°	2101.1	2011.7	1798.0	1435.7	1035.5	959.7	1013.6	1088.2	1142.6	1163.4
30°	2183.4	2091.7	1859.6	1423.8	991.7	936.0	965.6	1023.6	1076.9	1097.6
32.5°	2273.4	2180.5	1918.8	1395.4	965.0	918.2	918.8	955.5	1004.1	1029.0
35°	2385.9	2287.0	1982.1	1333.3	943.7	897.5	873.3	891.0	931.3	960.9
37.5°	2546.4	2426.8	2059.7	1244.5	912.3	865.6	825.3	829.4	860.2	892.8
40°	2767.8	2614.4	2150.9	1152.1	867.3	820.6	772.6	770.8	793.3	825.3
42.5°	3067.3	2862.5	2260.4	1063.9	824.1	766.1	717.0	714.0	731.8	759.6
45°	3462.8	3179.8	2394.8	988.1	790.4	712.8	664.3	663.1	677.9	702.2
47.5°	3969.0	3620.9	2529.2	936.6	772.6	670.8	621.0	623.4	636.4	658.3
50°	4624.4	4195.8	2570.0	910.6	772.6	648.3	582.6	594.4	605.1	621.6
52.5°	5410.0	4747.5	2435.0	886.9	777.3	651.2	550.0	575.5	583.2	597.4
55°	6138.2	5018.1	2093.4	854.3	778.5	669.6	522.2	560.1	574.3	579.6
57.5°	6561.0	4925.2	1692.6	799.2	773.8	682.0	504.4	541.1	568.4	571.9
60°	6480.4	4598.9	1246.2	757.2	738.9	677.3	499.1	512.1	555.3	560.7
62.5°	5860.0	4051.9	865.0	724.7	661.9	656.6	497.3	466.5	526.9	539.9
65°	4710.2	3189.9	611.0	624.0	580.2	611.6	487.8	419.2	492.6	510.3
67.5°	3417.2	2158.6	441.1	505.6	525.7	538.8	466.5	384.8	453.5	477.2
70°	2192.9	1165.7	309.6	333.9	442.8	457.6	429.8	354.0	413.8	441.1
72.5°	1558.8	688.5	222.6	233.9	355.8	381.3	378.3	319.7	367.7	400.8
75°	1075.7	379.5	150.4	167.0	258.1	309.6	291.9	274.7	311.4	345.2
77.5°	674.3	169.9	90.0	116.0	169.3	243.3	200.1	212.5	242.7	274.1
80°	375.4	65.7	50.3	77.0	92.4	177.0	110.7	136.8	178.8	201.3
82.5°	81.7	8.3	22.5	33.2	36.1	103.0	58.6	79.3	112.5	110.7
85°	0.0	0.0	4.1	4.7	2.4	44.4	21.3	26.0	36.7	34.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946689

CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1190.0	0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
1070.4	2.5°	1065.7	1036.7	1015.3	1004.7	995.8	1004.1	1008.8	1008.8	1029.0	1040.8
986.3	5°	965.6	913.5	873.8	847.2	831.2	836.5	842.5	849.0	874.4	891.6
936.6	7.5°	896.3	816.4	756.0	718.7	699.2	702.2	706.3	711.6	736.5	753.7
943.7	10°	883.3	768.5	683.2	634.1	610.4	606.2	603.9	602.1	616.9	629.9
1024.2	12.5°	936.6	770.8	651.8	592.0	563.0	550.6	536.4	525.1	527.5	535.8
1146.2	15°	1031.9	801.0	641.8	570.1	534.0	513.3	496.7	483.1	480.1	483.1
1252.7	17.5°	1140.9	841.9	640.6	551.2	506.2	484.9	471.3	458.8	454.7	455.3
1312.5	20°	1213.1	874.4	637.0	529.9	479.5	460.6	448.8	436.3	432.2	433.4
1296.0	22.5°	1220.2	891.6	631.7	506.2	452.9	436.9	425.1	413.8	413.2	413.2
1233.8	25°	1181.7	891.6	620.5	484.9	427.5	413.2	402.6	389.0	391.3	392.5
1163.4	27.5°	1121.9	870.3	599.1	467.7	405.5	390.7	380.1	367.7	370.6	372.4
1097.6	30°	1062.7	843.1	573.7	448.2	384.8	367.7	360.0	349.3	350.5	352.9
1032.5	32.5°	1007.6	814.1	543.5	432.2	364.1	346.9	341.0	329.2	330.9	333.3
968.6	35°	953.2	782.1	508.0	413.2	345.2	328.0	323.3	309.6	310.8	314.4
904.6	37.5°	894.6	748.3	479.0	394.3	326.8	309.0	304.3	290.1	291.3	295.4
838.3	40°	833.0	715.2	450.5	374.2	307.3	289.5	285.4	270.0	271.2	275.9
773.2	42.5°	770.8	679.1	428.6	348.1	287.1	268.2	264.0	249.8	251.6	256.9
716.4	45°	713.4	635.8	414.4	319.1	268.2	246.9	242.7	229.7	233.3	239.2
668.4	47.5°	664.3	591.4	408.5	294.8	248.1	225.0	221.4	210.8	216.7	223.2
627.6	50°	622.2	548.8	400.8	270.0	229.1	206.0	202.5	195.4	203.1	209.6
599.7	52.5°	592.0	500.3	384.2	247.5	212.5	190.0	188.9	185.3	192.4	198.3
579.0	55°	566.0	449.9	357.6	227.9	197.7	176.4	177.6	175.8	181.8	186.5
566.6	57.5°	542.3	406.1	323.8	212.5	181.8	164.6	168.1	165.8	168.7	171.7
553.6	60°	513.9	361.7	283.6	195.4	162.8	152.7	156.9	150.4	149.8	151.0
529.9	62.5°	471.9	301.9	241.6	174.1	146.2	139.7	141.5	129.1	119.6	119.6
494.9	65°	413.2	242.7	202.5	150.4	127.3	122.0	120.8	103.0	90.0	88.8
457.1	67.5°	345.2	199.5	168.1	126.7	106.0	102.4	103.6	90.6	77.6	76.4
419.2	70°	281.2	165.2	135.6	101.2	81.7	85.3	90.6	77.6	65.1	63.3
374.8	72.5°	228.5	131.4	106.0	77.6	60.4	70.5	77.0	63.3	51.5	50.3
319.7	75°	176.4	96.5	75.8	52.7	43.8	54.5	60.4	46.2	36.7	34.9
247.5	77.5°	117.8	59.8	42.6	33.2	26.0	37.3	40.3	24.3	21.3	20.7
180.0	80°	71.6	27.8	18.4	16.0	8.9	13.6	16.0	10.1	11.2	11.8
95.9	82.5°	36.1	7.7	3.0	0.6	0.0	0.0	4.7	2.4	4.7	5.9
26.0	85°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.0
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: P946689  
 CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1190.0	0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
1045.5	2.5°	1078.7	1103.6	1127.2	1165.1	1204.2	1242.7	1281.8	1319.7	1333.3	1343.3
902.9	5°	954.4	1001.1	1055.6	1130.8	1211.3	1294.2	1378.3	1455.2	1490.2	1513.8
768.5	7.5°	825.9	886.9	965.0	1078.1	1204.2	1336.2	1468.3	1589.6	1645.9	1691.4
641.8	10°	698.6	764.9	863.8	992.8	1163.4	1352.8	1535.2	1702.1	1774.9	1832.4
550.6	12.5°	586.7	648.9	752.5	895.2	1099.4	1339.8	1573.6	1774.3	1860.2	1924.7
485.5	15°	508.0	551.8	643.5	797.5	1023.6	1297.7	1576.0	1808.7	1902.8	1970.3
458.2	17.5°	464.2	479.0	538.8	698.0	939.6	1242.7	1554.1	1820.5	1921.2	1983.9
434.0	20°	440.5	442.8	459.4	568.9	831.8	1191.2	1533.4	1832.4	1938.3	1991.0
416.8	22.5°	421.5	421.5	425.7	465.3	692.7	1129.6	1526.9	1853.1	1962.0	1994.6
397.3	25°	404.4	404.4	405.5	416.2	548.8	1035.5	1522.7	1885.0	1994.6	2003.5
377.7	27.5°	386.6	387.2	387.2	393.1	442.3	907.6	1505.0	1926.5	2033.6	2015.3
358.8	30°	368.8	370.0	370.0	374.2	391.3	757.8	1470.0	1976.2	2084.6	2030.7
339.8	32.5°	351.1	352.3	352.3	355.8	368.2	605.1	1426.2	2021.8	2136.1	2037.2
321.5	35°	332.7	334.5	333.3	338.1	351.1	481.3	1370.6	2067.4	2191.7	2057.9
303.7	37.5°	314.4	315.6	315.0	319.7	334.5	415.6	1306.0	2101.7	2267.5	2104.1
284.8	40°	296.0	295.4	295.4	300.8	316.7	396.7	1224.9	2156.2	2376.4	2185.2
265.8	42.5°	277.1	277.1	275.9	281.8	301.3	382.5	1147.4	2253.9	2535.1	2314.3
248.1	45°	259.9	259.3	256.9	262.3	286.5	357.6	1120.1	2436.2	2769.5	2523.3
230.3	47.5°	243.3	242.7	236.8	241.6	268.8	335.1	1222.0	2734.6	3094.6	2830.5
216.1	50°	228.5	229.1	217.9	222.0	251.0	317.9	1442.8	3121.8	3526.2	3244.4
204.3	52.5°	214.9	214.9	200.1	202.5	229.1	302.5	1653.0	3541.6	4095.7	3821.6
191.8	55°	201.3	200.1	183.5	184.7	207.2	280.6	1684.3	3951.3	4872.5	4690.1
178.2	57.5°	185.9	183.5	168.1	168.1	187.1	264.6	1460.0	4266.2	5836.3	5966.5
152.7	60°	167.0	165.2	155.1	152.2	171.1	278.8	1030.1	4302.9	6457.9	7663.9
121.4	62.5°	142.7	145.0	139.7	135.6	155.7	289.5	610.4	4007.5	6307.6	8203.9
94.1	65°	112.5	122.0	120.8	117.8	171.1	243.9	360.6	3440.3	5846.4	7768.1
82.3	67.5°	95.9	102.4	100.6	100.6	179.4	185.3	226.8	2687.8	5211.7	7251.3
68.7	70°	81.7	88.2	81.7	81.7	135.6	112.5	156.9	1876.8	4526.7	6679.4
55.1	72.5°	67.5	74.0	66.9	62.2	108.3	84.1	114.9	1172.8	3876.7	6083.8
39.1	75°	51.5	59.2	53.9	48.0	71.6	62.8	87.0	681.4	3211.8	5205.2
23.7	77.5°	32.6	42.6	40.3	33.7	52.7	45.6	62.8	405.5	2478.3	4067.3
14.2	80°	20.1	21.9	22.5	21.3	30.2	30.8	42.6	230.9	1696.2	2834.7
8.9	82.5°	13.0	13.0	10.1	11.2	14.8	17.8	24.3	87.0	997.0	1725.8
5.3	85°	9.5	8.3	5.3	5.3	7.1	8.9	9.5	26.6	404.4	681.4
2.4	87.5°	4.7	4.1	1.8	2.4	3.6	3.0	2.4	1.2	101.8	217.9
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: P946689  
 CATALOG NUMBER: GALN-SB2B-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

285°		295°	305°	315°	325°	335°	345°	355°	360°
1190.0	0°	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0	1190.0
1365.8	2.5°	1377.7	1396.0	1397.2	1397.2	1381.2	1380.6	1348.1	1344.5
1567.1	5°	1622.2	1634.0	1637.0	1631.1	1599.1	1575.4	1512.1	1498.4
1772.6	7.5°	1846.0	1869.7	1869.7	1855.4	1803.3	1754.8	1663.0	1628.7
1942.5	10°	2024.8	2052.0	2046.1	2017.1	1951.4	1884.5	1773.2	1728.2
2045.5	12.5°	2111.8	2139.6	2124.2	2091.1	2027.1	1956.7	1839.5	1788.5
2075.1	15°	2110.0	2102.3	2086.3	2082.2	2051.4	1998.1	1888.6	1832.9
2056.7	17.5°	2034.8	1969.7	1957.3	1998.7	2037.8	2024.8	1931.2	1879.1
2012.9	20°	1915.8	1802.2	1790.9	1870.2	1981.5	2038.4	1970.9	1922.9
1949.6	22.5°	1790.3	1667.8	1641.7	1729.3	1896.9	2042.5	2021.2	1973.3
1879.7	25°	1671.3	1548.2	1522.1	1603.8	1802.8	2035.4	2075.7	2034.8
1812.8	27.5°	1571.9	1452.9	1428.6	1510.3	1712.2	2015.3	2130.1	2101.1
1746.5	30°	1494.9	1384.8	1367.0	1445.8	1634.0	1990.4	2199.4	2183.4
1684.9	32.5°	1449.9	1369.4	1375.9	1440.4	1592.0	1963.2	2265.7	2273.4
1654.7	35°	1494.3	1497.9	1554.7	1581.3	1631.1	1959.0	2355.7	2385.9
1690.9	37.5°	1715.1	1838.3	1956.1	1934.2	1822.3	2007.0	2490.1	2546.4
1848.3	40°	2091.1	2343.9	2535.1	2451.6	2169.8	2153.8	2683.7	2767.8
2127.8	42.5°	2550.5	2979.1	3294.1	3070.3	2618.0	2410.8	2960.2	3067.3
2465.8	45°	3035.4	3762.4	4258.5	3793.2	3095.8	2770.7	3378.8	3462.8
2782.6	47.5°	3546.3	4714.4	5356.2	4594.8	3538.6	3180.4	3949.5	3969.0
3082.7	50°	4105.2	5758.2	6475.1	5395.8	3966.1	3649.9	4646.9	4624.4
3432.6	52.5°	4637.4	6831.5	7570.4	6200.4	4341.4	4232.5	5456.2	5410.0
3911.0	55°	5145.4	7904.3	8672.2	6973.6	4695.4	5002.1	6417.7	6138.2
4600.7	57.5°	5734.5	8868.7	9807.7	7750.4	5190.4	6001.5	7492.8	6561.0
5921.6	60°	6605.4	9964.6	11091.8	8814.8	6131.7	7051.8	7878.2	6480.4
7503.5	62.5°	7717.2	10972.2	12025.5	9858.0	7077.2	7249.5	7310.5	5860.0
7180.8	65°	7933.3	11227.4	12078.1	10136.9	6955.2	6149.5	5968.3	4710.2
6414.1	67.5°	7360.2	10766.2	11341.6	9617.6	6152.4	4752.3	4478.8	3417.2
5910.9	70°	6717.2	9887.0	10058.1	8734.9	5411.2	3495.4	3024.7	2192.9
5566.3	72.5°	6058.3	8714.2	8360.2	7585.8	4755.8	2545.2	2181.7	1558.8
5075.5	75°	5275.6	7171.9	6585.2	6302.8	3937.6	1997.5	1578.4	1075.7
4365.7	77.5°	4224.8	5048.3	4891.4	4885.5	2959.0	1459.4	1053.2	674.3
3410.7	80°	2980.3	3276.3	3196.4	3679.5	1985.1	1058.6	634.1	375.4
2374.1	82.5°	1442.8	1811.6	1859.6	2191.1	965.6	622.8	146.2	81.7
928.3	85°	564.8	873.8	737.1	831.8	271.2	173.5	3.6	0.0
152.7	87.5°	63.3	101.2	92.9	73.4	33.2	7.1	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)