

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: P948201

Luminaire Tested: **GALN-SB3B-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948201
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-SB3B-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 11212 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

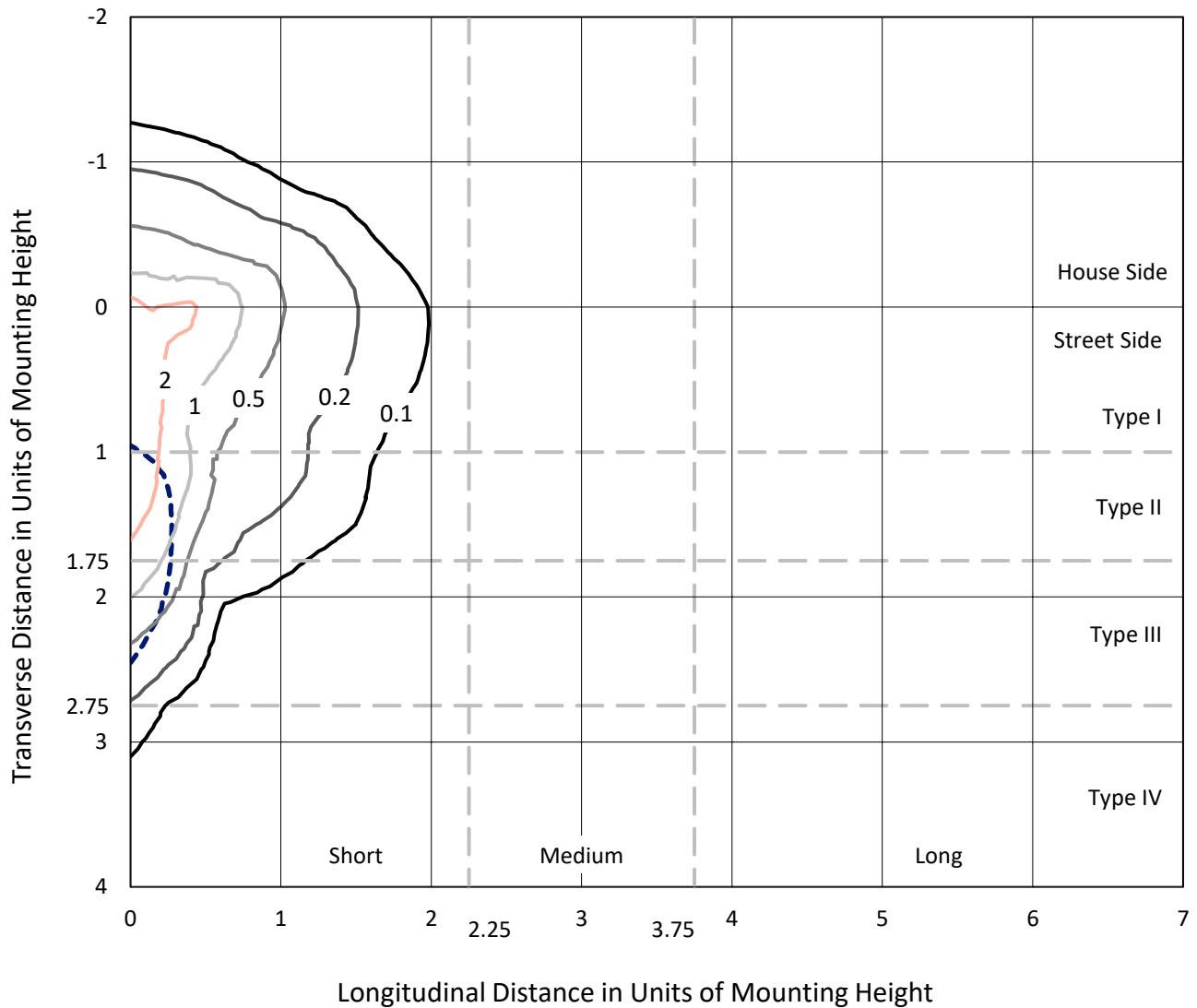
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948201
 CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

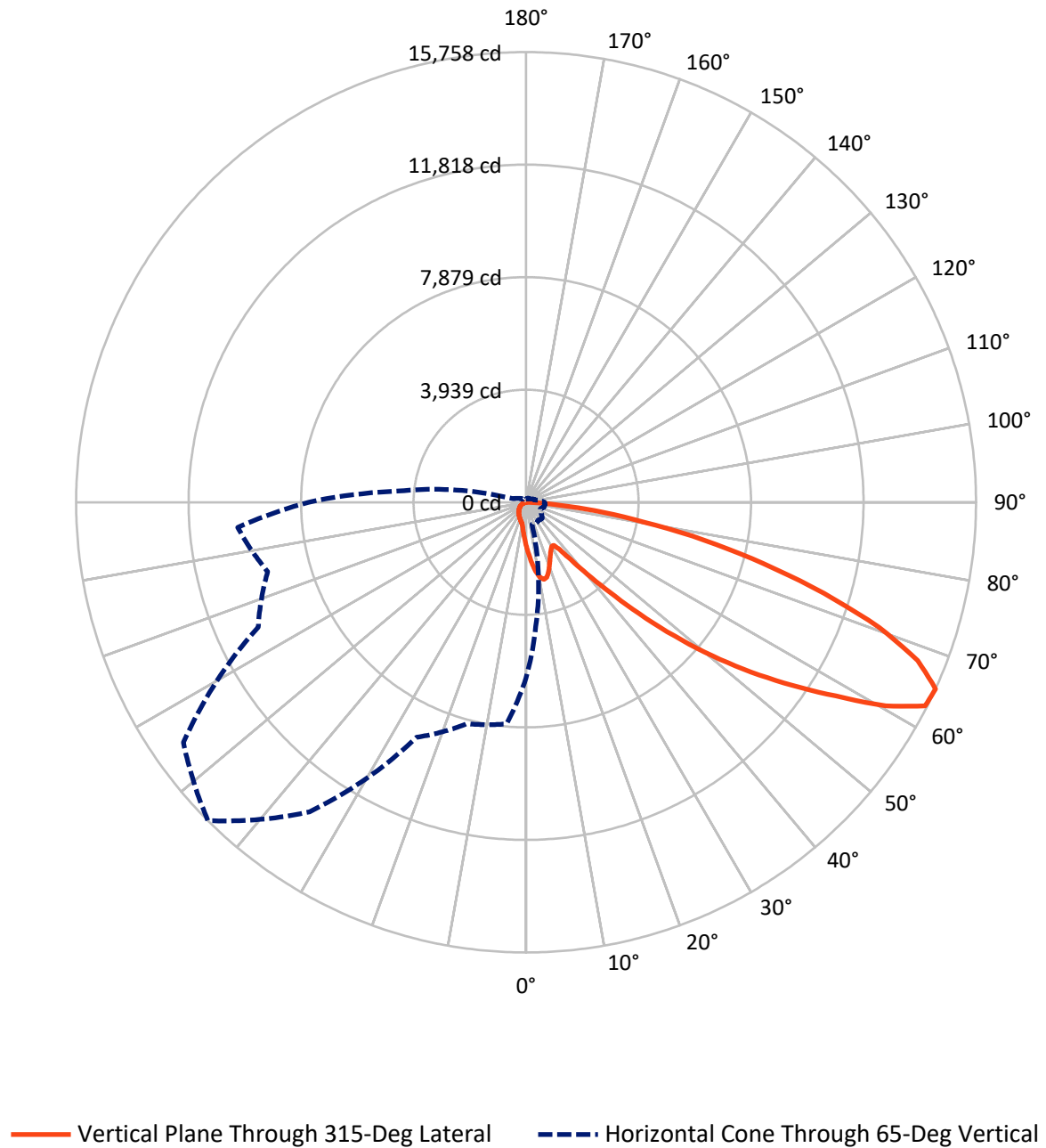
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P948201
CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P948201
 CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

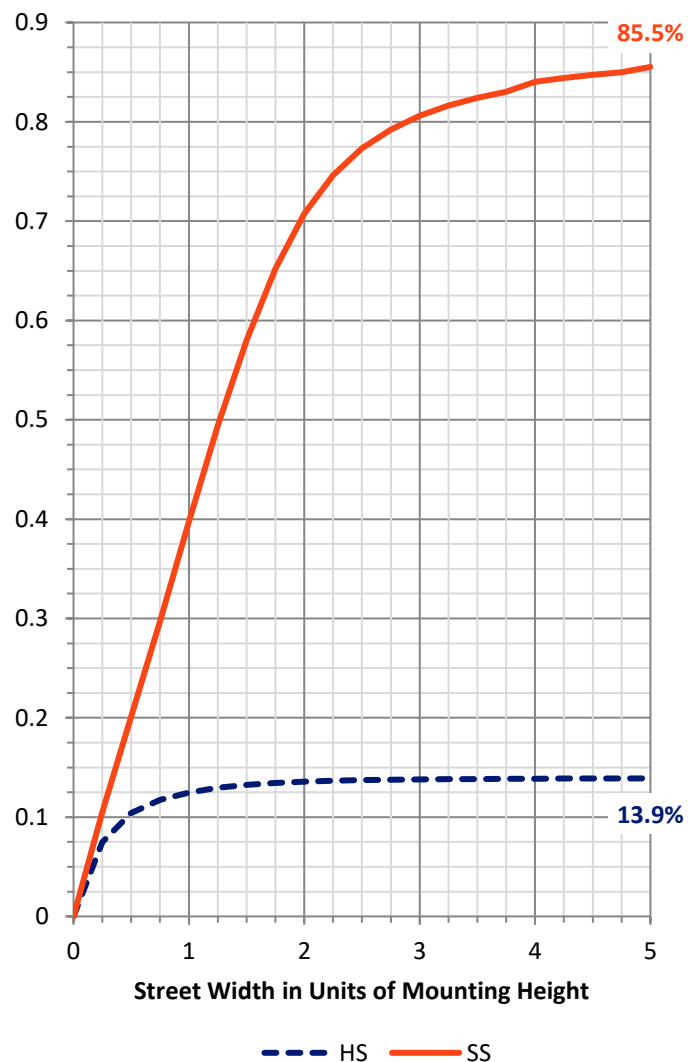
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1570.2	0.0	1570.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9641.8	0.0	9641.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	11212.0	0.0	11212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	1.4
10°-20°	458.2	4.1
20°-30°	675.0	6.0
30°-40°	867.2	7.7
40°-50°	1402.5	12.5
50°-60°	2459.5	21.9
60°-70°	3077.5	27.4
70°-80°	1798.3	16.0
80°-90°	320.9	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°	11212.0	100.0
0°-180°	11212.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948201

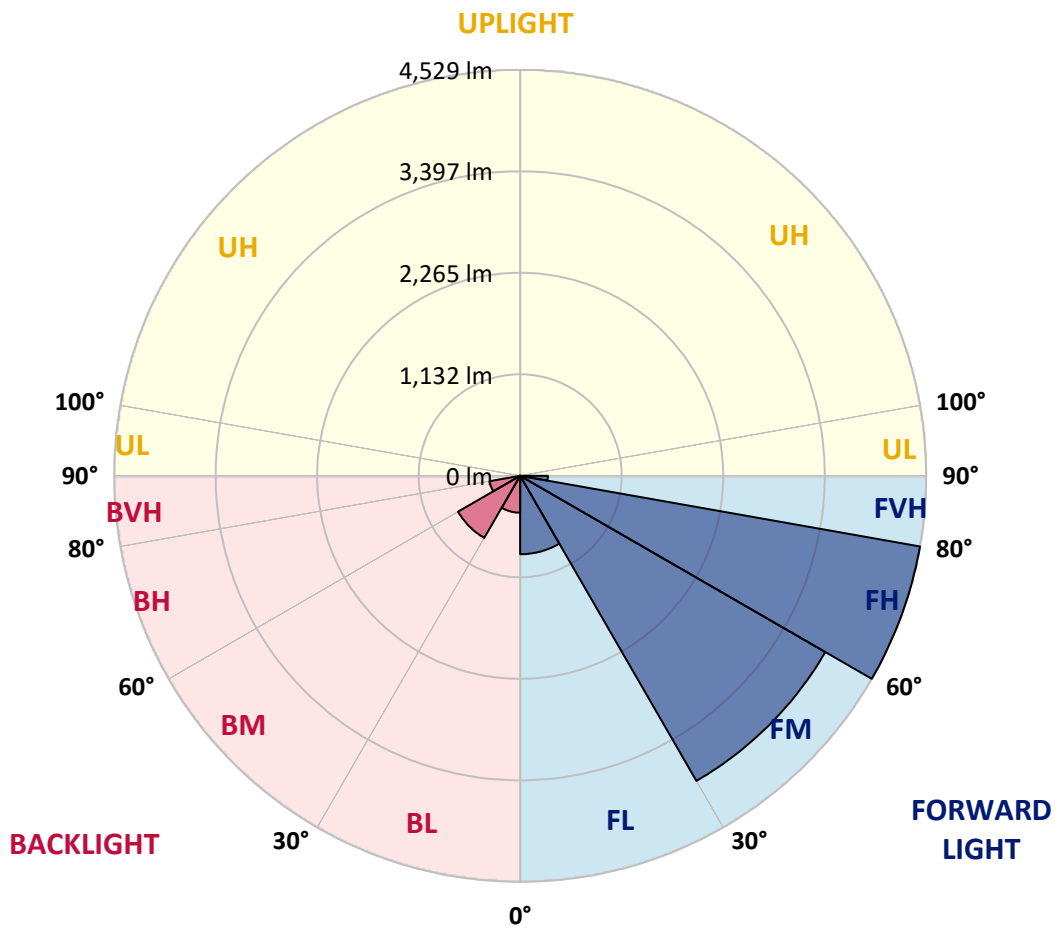
CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	874.5	7.8			
FM (30°-60°)	3929.7	35.0			
FH (60°-80°)	4529.1	40.4			G2/5000
FVH (80°-90°)	308.5	2.8			G3/500
BL (0°-30°)	411.6	3.7	B1/500		
BM (30°-60°)	799.6	7.1	B1/1000		
BH (60°-80°)	346.7	3.1	B1/500		G1/500
BVH (80°-90°)	12.3	0.1			G1/100
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: P948201
 CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
2.5°	1754.1	1724.0	1706.2	1662.2	1618.2	1582.6	1534.7	1503.1	1465.2	1428.9
5°	1954.9	1906.3	1847.6	1767.2	1693.9	1618.9	1546.3	1474.5	1398.8	1329.3
7.5°	2124.8	2054.6	1951.1	1844.5	1751.0	1660.6	1575.7	1480.7	1388.8	1279.8
10°	2254.6	2165.0	2029.1	1889.3	1781.9	1690.8	1608.1	1527.8	1435.1	1303.8
12.5°	2333.4	2237.6	2076.2	1912.4	1789.6	1687.7	1623.6	1588.0	1551.7	1421.2
15°	2391.3	2287.8	2109.4	1928.7	1771.9	1646.7	1599.6	1635.1	1676.9	1593.4
17.5°	2451.6	2342.7	2152.7	1935.6	1724.0	1567.2	1547.1	1639.0	1735.6	1731.7
20°	2508.7	2400.6	2190.5	1931.0	1646.7	1470.6	1488.4	1605.8	1717.8	1764.9
22.5°	2574.4	2460.1	2226.8	1913.2	1546.3	1380.3	1435.9	1553.3	1651.4	1707.0
25°	2654.7	2535.0	2277.8	1886.9	1438.2	1305.3	1382.6	1492.3	1571.8	1610.4
27.5°	2741.2	2624.6	2345.7	1873.0	1350.9	1252.0	1322.3	1419.7	1490.7	1517.7
30°	2848.6	2728.9	2426.1	1857.6	1293.8	1221.1	1259.8	1335.5	1405.0	1432.0
32.5°	2966.0	2844.7	2503.3	1820.5	1259.0	1198.0	1198.7	1246.6	1310.0	1342.4
35°	3112.7	2983.7	2586.0	1739.4	1231.2	1170.9	1139.3	1162.4	1215.0	1253.6
37.5°	3322.0	3166.0	2687.1	1623.6	1190.3	1129.2	1076.7	1082.1	1122.3	1164.8
40°	3610.9	3410.9	2806.1	1503.1	1131.6	1070.5	1008.0	1005.7	1035.0	1076.7
42.5°	4001.8	3734.5	2949.0	1388.0	1075.2	999.5	935.4	931.5	954.7	991.0
45°	4517.7	4148.5	3124.3	1289.1	1031.1	930.0	866.6	865.1	884.4	916.1
47.5°	5178.1	4723.9	3299.6	1221.9	1008.0	875.1	810.2	813.3	830.3	858.9
50°	6033.1	5473.9	3352.9	1187.9	1008.0	845.8	760.0	775.5	789.4	811.0
52.5°	7058.1	6193.8	3176.8	1157.0	1014.1	849.6	717.6	750.8	760.8	779.3
55°	8008.1	6546.8	2731.2	1114.6	1015.7	873.6	681.2	730.7	749.2	756.2
57.5°	8559.6	6425.5	2208.3	1042.7	1009.5	889.8	658.1	706.0	741.5	746.1
60°	8454.6	5999.9	1625.9	987.9	963.9	883.6	651.1	668.1	724.5	731.5
62.5°	7645.1	5286.2	1128.5	945.4	863.5	856.6	648.8	608.6	687.4	704.4
65°	6145.1	4161.6	797.1	814.1	756.9	797.9	636.4	546.9	642.6	665.8
67.5°	4458.2	2816.1	575.4	659.6	685.9	702.9	608.6	502.1	591.7	622.5
70°	2860.9	1520.8	404.0	435.6	577.7	597.1	560.8	461.9	539.9	575.4
72.5°	2033.7	898.3	290.4	305.1	464.2	497.4	493.6	417.1	479.7	522.9
75°	1403.4	495.1	196.2	217.8	336.8	404.0	380.8	358.4	406.3	450.3
77.5°	879.8	221.7	117.4	151.4	220.9	317.5	261.1	277.3	316.7	357.6
80°	489.7	85.7	65.7	100.4	120.5	230.9	144.4	178.4	233.3	262.6
82.5°	106.6	10.8	29.4	43.3	47.1	134.4	76.5	103.5	146.8	144.4
85°	0.0	0.0	5.4	6.2	3.1	57.9	27.8	34.0	47.9	44.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948201
 CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1552.5	0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
1396.5	2.5°	1390.3	1352.5	1324.6	1310.7	1299.2	1310.0	1316.2	1316.2	1342.4	1357.9
1286.8	5°	1259.8	1191.8	1140.0	1105.3	1084.4	1091.4	1099.1	1107.6	1140.8	1163.2
1221.9	7.5°	1169.4	1065.1	986.3	937.7	912.2	916.1	921.5	928.4	960.9	983.3
1231.2	10°	1152.4	1002.6	891.3	827.2	796.3	790.9	787.8	785.5	804.8	821.8
1336.2	12.5°	1221.9	1005.7	850.4	772.4	734.5	718.3	699.8	685.1	688.2	699.0
1495.3	15°	1346.3	1045.0	837.3	743.8	696.7	669.7	648.0	630.3	626.4	630.3
1634.4	17.5°	1488.4	1098.3	835.7	719.1	660.4	632.6	614.8	598.6	593.2	594.0
1712.4	20°	1582.6	1140.8	831.1	691.3	625.6	600.9	585.5	569.3	563.8	565.4
1690.8	22.5°	1591.9	1163.2	824.1	660.4	590.9	570.0	554.6	539.9	539.1	539.1
1609.7	25°	1541.7	1163.2	809.5	632.6	557.7	539.1	525.2	507.5	510.5	512.1
1517.7	27.5°	1463.7	1135.4	781.7	610.2	529.1	509.8	495.9	479.7	483.5	485.8
1432.0	30°	1386.4	1099.9	748.4	584.7	502.1	479.7	469.6	455.7	457.3	460.3
1347.0	32.5°	1314.6	1062.0	709.1	563.8	475.0	452.6	444.9	429.4	431.8	434.9
1263.6	35°	1243.5	1020.3	662.7	539.1	450.3	427.9	421.7	404.0	405.5	410.1
1180.2	37.5°	1167.1	976.3	624.9	514.4	426.4	403.2	397.0	378.5	380.0	385.4
1093.7	40°	1086.8	933.0	587.8	488.2	400.9	377.7	372.3	352.2	353.8	359.9
1008.7	42.5°	1005.7	885.9	559.2	454.2	374.6	349.9	344.5	325.9	328.3	335.2
934.6	45°	930.7	829.5	540.7	416.3	349.9	322.1	316.7	299.7	304.3	312.0
872.0	47.5°	866.6	771.6	532.9	384.7	323.6	293.5	288.9	275.0	282.7	291.2
818.7	50°	811.8	716.0	522.9	352.2	298.9	268.8	264.2	254.9	264.9	273.4
782.4	52.5°	772.4	652.7	501.3	322.9	277.3	247.9	246.4	241.8	251.0	258.8
755.4	55°	738.4	587.0	466.5	297.4	258.0	230.2	231.7	229.4	237.1	243.3
739.2	57.5°	707.5	529.9	422.5	277.3	237.1	214.7	219.4	216.3	220.1	224.0
722.2	60°	670.4	471.9	370.0	254.9	212.4	199.3	204.7	196.2	195.4	197.0
691.3	62.5°	615.6	393.9	315.1	227.1	190.8	182.3	184.6	168.4	156.0	156.0
645.7	65°	539.1	316.7	264.2	196.2	166.1	159.1	157.6	134.4	117.4	115.9
596.3	67.5°	450.3	260.3	219.4	165.3	138.3	133.6	135.2	118.2	101.2	99.6
546.9	70°	366.9	215.5	176.9	132.1	106.6	111.2	118.2	101.2	85.0	82.6
488.9	72.5°	298.1	171.5	138.3	101.2	78.8	91.9	100.4	82.6	67.2	65.7
417.1	75°	230.2	125.9	98.9	68.7	57.2	71.1	78.8	60.2	47.9	45.6
322.9	77.5°	153.7	78.0	55.6	43.3	34.0	48.7	52.5	31.7	27.8	27.0
234.8	80°	93.5	36.3	23.9	20.9	11.6	17.8	20.9	13.1	14.7	15.4
125.1	82.5°	47.1	10.0	3.9	0.8	0.0	0.0	6.2	3.1	6.2	7.7
34.0	85°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.9
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: P948201
 CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1552.5	0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
1364.0	2.5°	1407.3	1439.7	1470.6	1520.1	1571.0	1621.2	1672.2	1721.7	1739.4	1752.6
1177.9	5°	1245.1	1306.1	1377.2	1475.3	1580.3	1688.4	1798.1	1898.5	1944.1	1975.0
1002.6	7.5°	1077.5	1157.0	1259.0	1406.5	1571.0	1743.3	1915.5	2073.9	2147.2	2206.7
837.3	10°	911.4	997.9	1126.9	1295.3	1517.7	1764.9	2002.8	2220.6	2315.6	2390.5
718.3	12.5°	765.4	846.5	981.7	1167.9	1434.3	1747.9	2053.0	2314.9	2426.8	2511.0
633.4	15°	662.7	719.9	839.6	1040.4	1335.5	1693.1	2056.1	2359.7	2482.5	2570.5
597.8	17.5°	605.6	624.9	702.9	910.6	1225.8	1621.2	2027.5	2375.1	2506.4	2588.3
566.2	20°	574.7	577.7	599.4	742.3	1085.2	1554.0	2000.5	2390.5	2528.8	2597.5
543.8	22.5°	549.9	549.9	555.3	607.1	903.7	1473.7	1992.0	2417.6	2559.7	2602.2
518.3	25°	527.5	527.5	529.1	543.0	716.0	1350.9	1986.6	2459.3	2602.2	2613.8
492.8	27.5°	504.4	505.1	505.1	512.9	577.0	1184.1	1963.4	2513.4	2653.2	2629.2
468.1	30°	481.2	482.7	482.7	488.2	510.5	988.7	1917.8	2578.2	2719.6	2649.3
443.4	32.5°	458.0	459.6	459.6	464.2	480.4	789.4	1860.7	2637.7	2786.8	2657.8
419.4	35°	434.1	436.4	434.9	441.0	458.0	628.0	1788.1	2697.2	2859.4	2684.8
396.2	37.5°	410.1	411.7	410.9	417.1	436.4	542.2	1703.9	2742.0	2958.3	2745.1
371.5	40°	386.2	385.4	385.4	392.4	413.2	517.5	1598.1	2813.0	3100.4	2850.9
346.8	42.5°	361.5	361.5	359.9	367.7	393.1	499.0	1496.9	2940.5	3307.4	3019.3
323.6	45°	339.1	338.3	335.2	342.2	373.8	466.5	1461.4	3178.4	3613.2	3291.9
300.5	47.5°	317.5	316.7	309.0	315.1	350.7	437.2	1594.2	3567.7	4037.3	3692.8
281.9	50°	298.1	298.9	284.2	289.6	327.5	414.8	1882.3	4072.8	4600.4	4232.7
266.5	52.5°	280.4	280.4	261.1	264.2	298.9	394.7	2156.5	4620.4	5343.4	4985.8
250.3	55°	262.6	261.1	239.4	241.0	270.3	366.1	2197.4	5154.9	6356.8	6118.9
232.5	57.5°	242.5	239.4	219.4	219.4	244.1	345.3	1904.7	5565.8	7614.2	7784.1
199.3	60°	217.8	215.5	202.4	198.5	223.2	363.8	1344.0	5613.7	8425.2	9998.6
158.3	62.5°	186.1	189.2	182.3	176.9	203.1	377.7	796.3	5228.3	8229.0	10703.0
122.8	65°	146.8	159.1	157.6	153.7	223.2	318.2	470.4	4488.4	7627.3	10134.5
107.4	67.5°	125.1	133.6	131.3	131.3	234.0	241.8	295.8	3506.6	6799.3	9460.2
89.6	70°	106.6	115.1	106.6	106.6	176.9	146.8	204.7	2448.5	5905.7	8714.1
71.8	72.5°	88.1	96.5	87.3	81.1	141.3	109.7	149.8	1530.1	5057.6	7937.1
51.0	75°	67.2	77.2	70.3	62.6	93.5	81.9	113.5	889.0	4190.2	6790.9
30.9	77.5°	42.5	55.6	52.5	44.0	68.7	59.5	81.9	529.1	3233.2	5306.3
18.5	80°	26.3	28.6	29.4	27.8	39.4	40.2	55.6	301.2	2212.9	3698.2
11.6	82.5°	17.0	17.0	13.1	14.7	19.3	23.2	31.7	113.5	1300.7	2251.5
7.0	85°	12.4	10.8	7.0	7.0	9.3	11.6	12.4	34.8	527.5	889.0
3.1	87.5°	6.2	5.4	2.3	3.1	4.6	3.9	3.1	1.5	132.9	284.2
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: P948201
 CATALOG NUMBER: GALN-SB3B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1552.5	0°	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5	1552.5
1781.9	2.5°	1797.4	1821.3	1822.8	1822.8	1802.0	1801.2	1758.7	1754.1
2044.5	5°	2116.3	2131.8	2135.7	2127.9	2086.2	2055.3	1972.7	1954.9
2312.5	7.5°	2408.3	2439.2	2439.2	2420.7	2352.7	2289.4	2169.6	2124.8
2534.2	10°	2641.6	2677.1	2669.4	2631.5	2545.8	2458.5	2313.3	2254.6
2668.6	12.5°	2755.1	2791.4	2771.3	2728.1	2644.7	2552.7	2399.8	2333.4
2707.2	15°	2752.8	2742.8	2721.9	2716.5	2676.3	2606.8	2463.9	2391.3
2683.3	17.5°	2654.7	2569.7	2553.5	2607.6	2658.6	2641.6	2519.5	2451.6
2626.1	20°	2499.5	2351.2	2336.5	2440.0	2585.2	2659.3	2571.3	2508.7
2543.5	22.5°	2335.7	2175.8	2141.8	2256.2	2474.7	2664.7	2636.9	2574.4
2452.3	25°	2180.5	2019.8	1985.8	2092.4	2351.9	2655.5	2708.0	2654.7
2365.1	27.5°	2050.7	1895.4	1863.8	1970.4	2233.8	2629.2	2779.1	2741.2
2278.5	30°	1950.3	1806.6	1783.4	1886.2	2131.8	2596.8	2869.4	2848.6
2198.2	32.5°	1891.6	1786.5	1795.0	1879.2	2077.0	2561.2	2955.9	2966.0
2158.8	35°	1949.5	1954.1	2028.3	2063.1	2127.9	2555.8	3073.3	3112.7
2205.9	37.5°	2237.6	2398.3	2552.0	2523.4	2377.4	2618.4	3248.7	3322.0
2411.4	40°	2728.1	3057.9	3307.4	3198.5	2830.8	2810.0	3501.2	3610.9
2776.0	42.5°	3327.5	3886.7	4297.6	4005.6	3415.5	3145.2	3861.9	4001.8
3217.0	45°	3960.0	4908.5	5555.8	4948.7	4038.8	3614.8	4408.0	4517.7
3630.2	47.5°	4626.6	6150.5	6987.8	5994.5	4616.6	4149.3	5152.6	5178.1
4021.8	50°	5355.7	7512.3	8447.6	7039.6	5174.2	4761.8	6062.5	6033.1
4478.3	52.5°	6050.1	8912.6	9876.5	8089.2	5663.9	5521.8	7118.3	7058.1
5102.4	55°	6712.8	10312.2	11314.0	9098.0	6125.8	6525.9	8372.7	8008.1
6002.2	57.5°	7481.4	11570.4	12795.4	10111.4	6771.5	7829.7	9775.4	8559.6
7725.4	60°	8617.6	13000.1	14470.7	11500.1	7999.6	9199.9	10278.2	8454.6
9789.3	62.5°	10068.1	14314.7	15688.8	12861.1	9233.1	9457.9	9537.5	7645.1
9368.3	65°	10350.0	14647.6	15757.5	13224.9	9074.0	8022.8	7786.5	6145.1
8368.1	67.5°	9602.3	14045.9	14796.7	12547.5	8026.7	6200.0	5843.1	4458.2
7711.5	70°	8763.5	12898.9	13122.1	11395.8	7059.6	4560.2	3946.1	2860.9
7262.0	72.5°	7903.9	11368.8	10906.9	9896.6	6204.6	3320.5	2846.3	2033.7
6621.7	75°	6882.8	9356.7	8591.3	8222.9	5137.2	2606.0	2059.2	1403.4
5695.6	77.5°	5511.8	6586.2	6381.5	6373.8	3860.4	1903.9	1374.1	879.8
4449.7	80°	3888.2	4274.4	4170.1	4800.4	2589.8	1381.0	827.2	489.7
3097.3	82.5°	1882.3	2363.5	2426.1	2858.6	1259.8	812.6	190.8	106.6
1211.1	85°	736.9	1140.0	961.6	1085.2	353.8	226.3	4.6	0.0
199.3	87.5°	82.6	132.1	121.3	95.8	43.3	9.3	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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