

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: P947088

Luminaire Tested: **GALN-SB2C-750-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947088
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-SB2C-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA 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: 12093 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

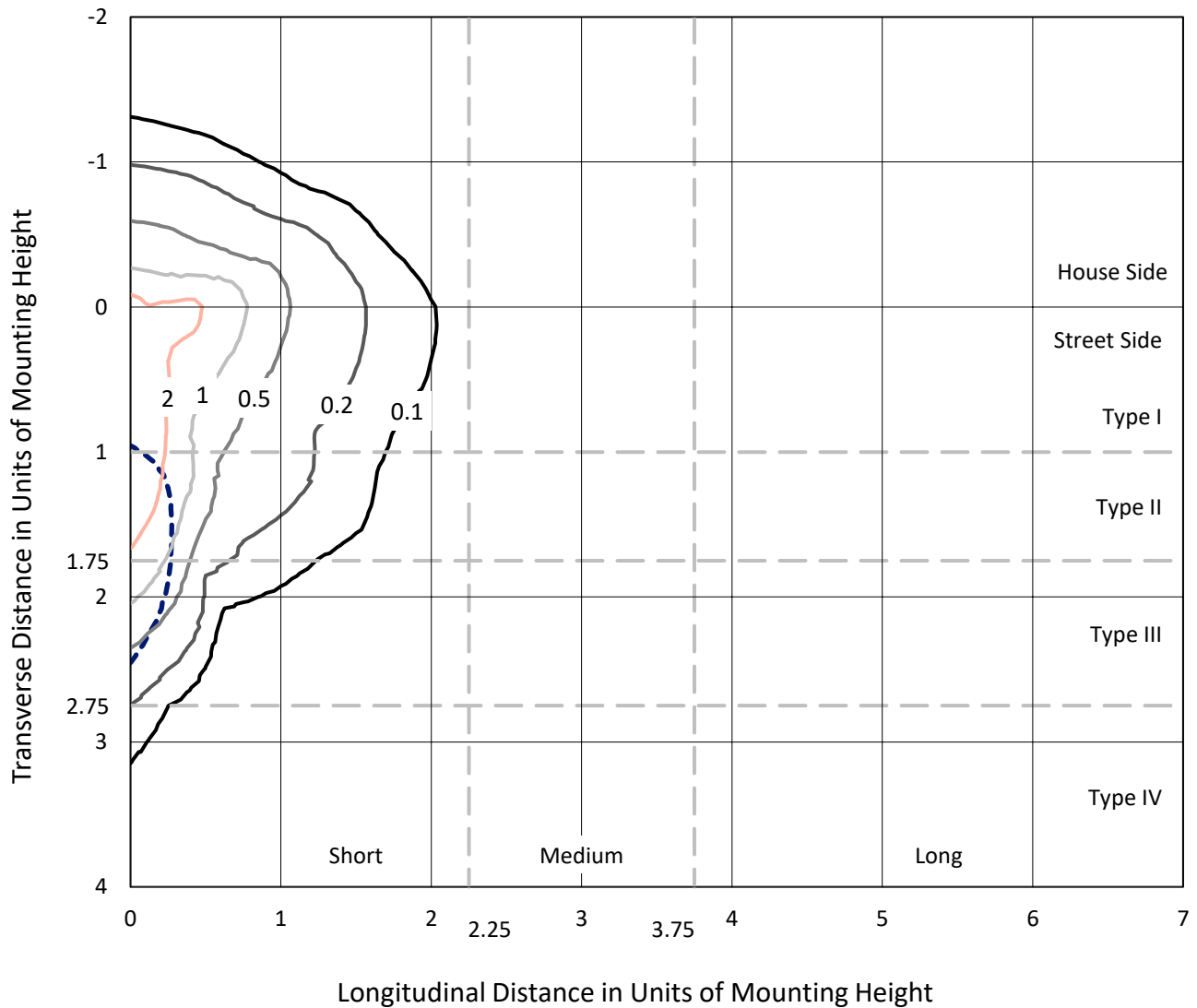
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947088
 CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

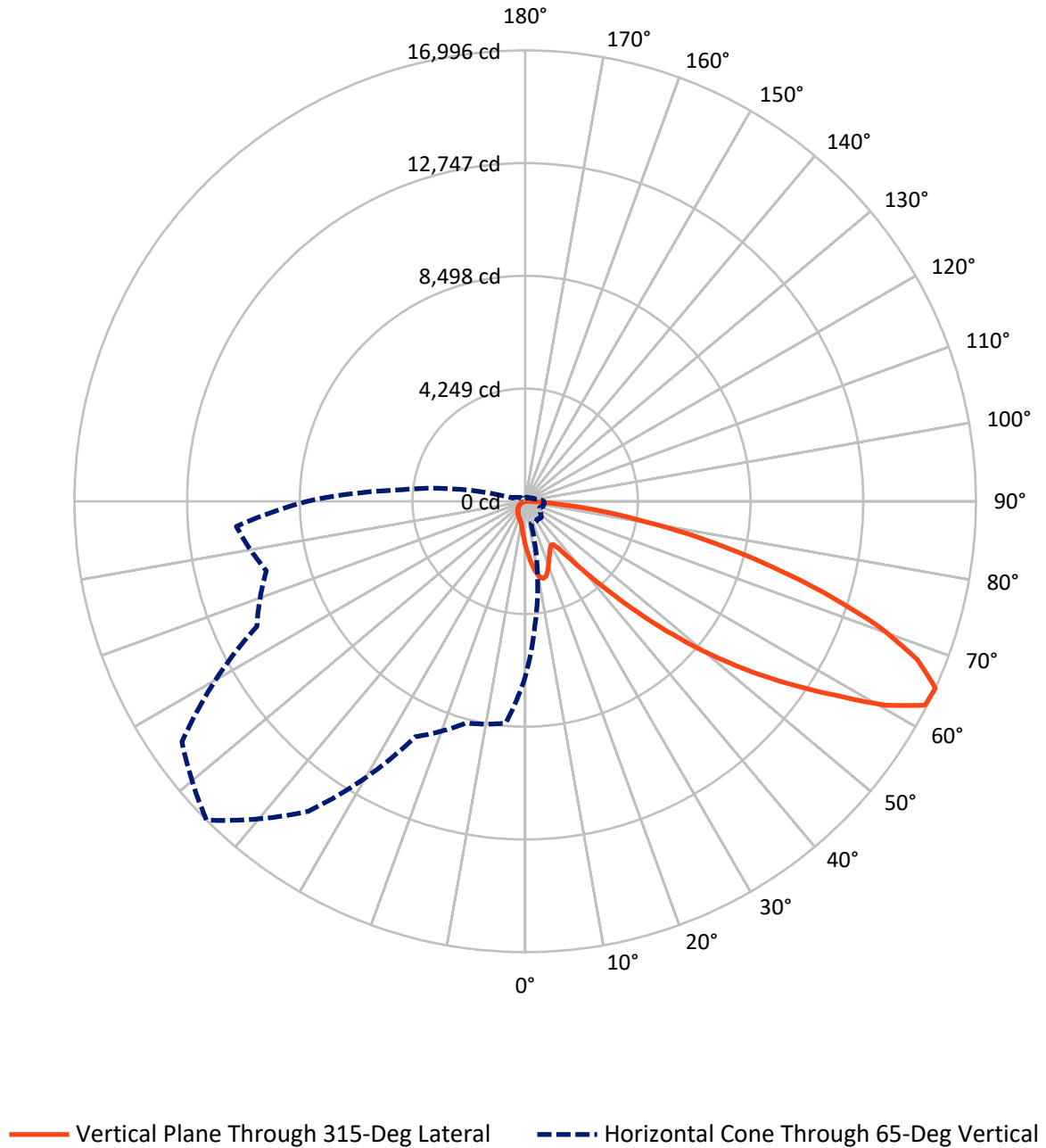
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P947088
CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P947088

CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1693.5	0.0	1693.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10399.5	0.0	10399.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	12093.0	0.0	12093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.4
10°-20°	494.2	4.1
20°-30°	728.1	6.0
30°-40°	935.4	7.7
40°-50°	1512.8	12.5
50°-60°	2652.8	21.9
60°-70°	3319.3	27.4
70°-80°	1939.7	16.0
80°-90°	346.1	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°	12093.0	100.0
0°-180°	12093.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947088

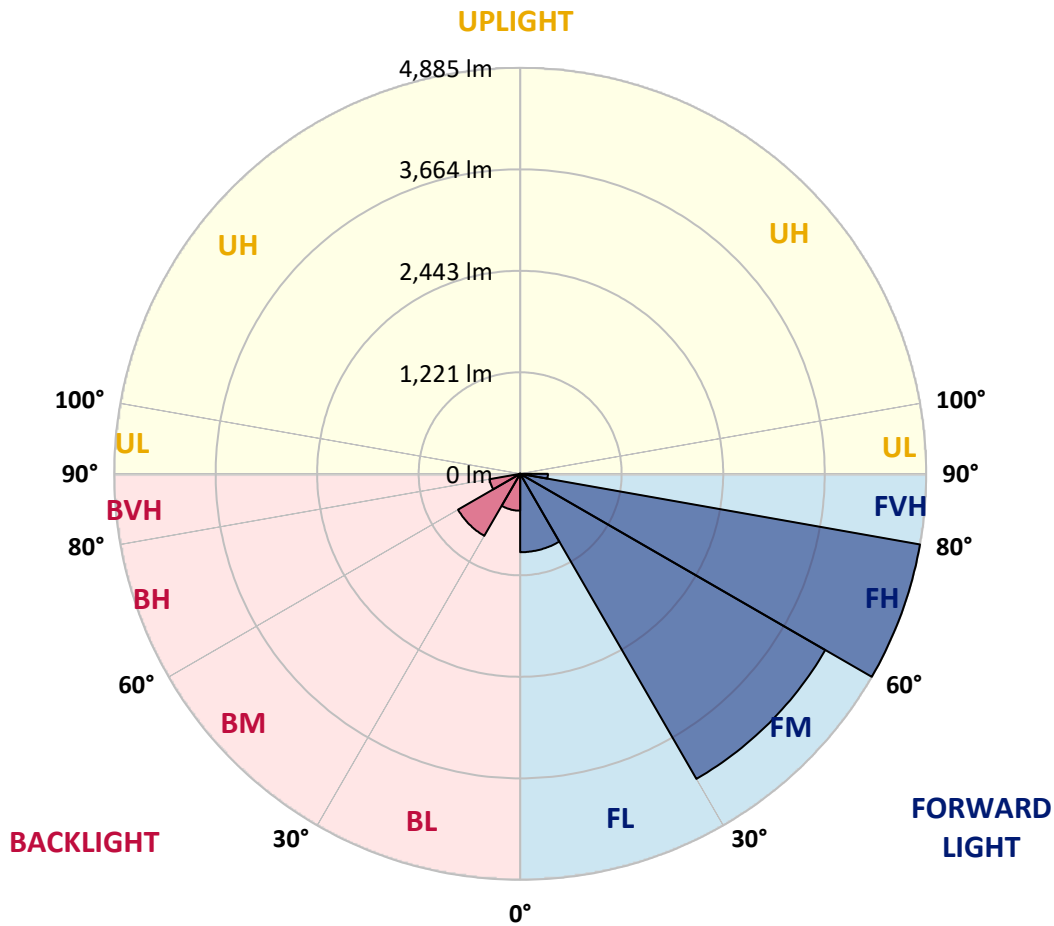
CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	943.2	7.8			
FM (30°-60°)	4238.5	35.0			
FH (60°-80°)	4885.0	40.4			G2/5000
FVH (80°-90°)	332.8	2.8			G3/500
BL (0°-30°)	443.9	3.7	B1/500		
BM (30°-60°)	862.4	7.1	B1/1000		
BH (60°-80°)	373.9	3.1	B1/500		G1/500
BVH (80°-90°)	13.3	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: P947088

CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5
2.5°	1891.9	1859.4	1840.3	1792.8	1745.3	1707.0	1655.3	1621.2	1580.4	1541.2
5°	2108.5	2056.0	1992.7	1906.1	1826.9	1746.1	1667.8	1590.4	1508.7	1433.7
7.5°	2291.8	2216.0	2104.4	1989.4	1888.6	1791.1	1699.5	1597.0	1497.9	1380.4
10°	2431.8	2335.1	2188.5	2037.7	1921.9	1823.6	1734.5	1647.8	1547.9	1406.2
12.5°	2516.7	2413.4	2239.3	2062.7	1930.2	1820.3	1751.1	1712.8	1673.7	1532.9
15°	2579.2	2467.6	2275.1	2080.2	1911.1	1776.1	1725.3	1763.6	1808.6	1718.6
17.5°	2644.2	2526.7	2321.8	2087.7	1859.4	1690.3	1668.7	1767.8	1871.9	1867.8
20°	2705.8	2589.2	2362.6	2082.7	1776.1	1586.2	1605.3	1732.0	1852.8	1903.6
22.5°	2776.7	2653.4	2401.8	2063.5	1667.8	1488.7	1548.7	1675.3	1781.1	1841.1
25°	2863.3	2734.2	2456.8	2035.2	1551.2	1407.9	1491.2	1609.5	1695.3	1737.0
27.5°	2956.6	2830.8	2530.1	2020.2	1457.1	1350.4	1426.2	1531.2	1607.8	1637.0
30°	3072.4	2943.3	2616.7	2003.6	1395.4	1317.1	1358.8	1440.4	1515.4	1544.5
32.5°	3199.0	3068.2	2700.0	1963.6	1357.9	1292.1	1292.9	1344.6	1412.9	1447.9
35°	3357.3	3218.2	2789.2	1876.1	1327.9	1263.0	1228.8	1253.8	1310.4	1352.1
37.5°	3583.1	3414.8	2898.3	1751.1	1283.8	1218.0	1161.3	1167.1	1210.5	1256.3
40°	3894.7	3678.9	3026.6	1621.2	1220.5	1154.7	1087.2	1084.7	1116.3	1161.3
42.5°	4316.2	4027.9	3180.7	1497.0	1159.6	1078.0	1008.9	1004.7	1029.7	1068.8
45°	4872.7	4474.5	3369.8	1390.4	1112.2	1003.0	934.7	933.1	953.9	988.0
47.5°	5585.0	5095.1	3558.9	1317.9	1087.2	943.9	873.9	877.2	895.6	926.4
50°	6507.2	5904.0	3616.4	1281.3	1087.2	912.2	819.8	836.4	851.4	874.7
52.5°	7612.7	6680.5	3426.5	1248.0	1093.8	916.4	773.9	809.8	820.6	840.6
55°	8637.4	7061.2	2945.8	1202.1	1095.5	942.2	734.8	788.1	808.1	815.6
57.5°	9232.2	6930.4	2381.8	1124.7	1088.8	959.7	709.8	761.4	799.8	804.8
60°	9118.9	6471.4	1753.6	1065.5	1039.7	953.0	702.3	720.6	781.4	788.9
62.5°	8245.8	5701.6	1217.1	1019.7	931.4	923.9	699.8	656.5	741.4	759.8
65°	6628.0	4488.6	859.7	878.1	816.4	860.6	686.5	589.8	693.1	718.1
67.5°	4808.5	3037.4	620.6	711.5	739.8	758.1	656.5	541.5	638.1	671.5
70°	3085.7	1640.3	435.7	469.9	623.1	644.0	604.8	498.2	582.3	620.6
72.5°	2193.5	968.9	313.2	329.1	500.7	536.5	532.3	449.9	517.3	564.0
75°	1513.7	534.0	211.6	234.9	363.2	435.7	410.7	386.5	438.2	485.7
77.5°	948.9	239.1	126.6	163.3	238.3	342.4	281.6	299.1	341.6	385.7
80°	528.2	92.5	70.8	108.3	130.0	249.1	155.8	192.4	251.6	283.2
82.5°	115.0	11.7	31.7	46.7	50.8	145.0	82.5	111.6	158.3	155.8
85°	0.0	0.0	5.8	6.7	3.3	62.5	30.0	36.7	51.7	48.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947088
 CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1674.5	0°	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5
1506.2	2.5°	1499.5	1458.7	1428.7	1413.7	1401.2	1412.9	1419.6	1419.6	1447.9	1464.6
1387.9	5°	1358.8	1285.4	1229.6	1192.1	1169.6	1177.1	1185.5	1194.6	1230.5	1254.6
1317.9	7.5°	1261.3	1148.8	1063.8	1011.4	983.9	988.0	993.9	1001.4	1036.4	1060.5
1327.9	10°	1243.0	1081.3	961.4	892.2	858.9	853.1	849.7	847.2	868.1	886.4
1441.2	12.5°	1317.9	1084.7	917.2	833.1	792.3	774.8	754.8	738.9	742.3	753.9
1612.8	15°	1452.1	1127.2	903.1	802.3	751.4	722.3	699.0	679.8	675.6	679.8
1762.8	17.5°	1605.3	1184.6	901.4	775.6	712.3	682.3	663.1	645.6	639.8	640.6
1846.9	20°	1707.0	1230.5	896.4	745.6	674.8	648.1	631.5	614.0	608.1	609.8
1823.6	22.5°	1717.0	1254.6	888.9	712.3	637.3	614.8	598.2	582.3	581.5	581.5
1736.1	25°	1662.8	1254.6	873.1	682.3	601.5	581.5	566.5	547.3	550.7	552.3
1637.0	27.5°	1578.7	1224.6	843.1	658.1	570.7	549.8	534.8	517.3	521.5	524.0
1544.5	30°	1495.4	1186.3	807.3	630.6	541.5	517.3	506.5	491.5	493.2	496.5
1452.9	32.5°	1417.9	1145.5	764.8	608.1	512.3	488.2	479.9	463.2	465.7	469.0
1362.9	35°	1341.3	1100.5	714.8	581.5	485.7	461.5	454.9	435.7	437.4	442.4
1272.9	37.5°	1258.8	1053.0	674.0	554.8	459.9	434.9	428.2	408.2	409.9	415.7
1179.6	40°	1172.1	1006.4	634.0	526.5	432.4	407.4	401.5	379.9	381.6	388.2
1088.0	42.5°	1084.7	955.5	603.2	489.9	404.0	377.4	371.6	351.6	354.1	361.6
1008.0	45°	1003.9	894.7	583.2	449.0	377.4	347.4	341.6	323.2	328.2	336.6
940.5	47.5°	934.7	832.2	574.8	414.9	349.1	316.6	311.6	296.6	304.9	314.1
883.1	50°	875.6	772.3	564.0	379.9	322.4	289.9	284.9	274.9	285.7	294.9
843.9	52.5°	833.1	704.0	540.7	348.2	299.1	267.4	265.8	260.8	270.8	279.1
814.8	55°	796.4	633.1	503.2	320.7	278.2	248.3	249.9	247.4	255.8	262.4
797.3	57.5°	763.1	571.5	455.7	299.1	255.8	231.6	236.6	233.3	237.4	241.6
778.9	60°	723.1	509.0	399.0	274.9	229.1	214.9	220.8	211.6	210.8	212.4
745.6	62.5°	664.0	424.9	339.9	244.9	205.8	196.6	199.1	181.6	168.3	168.3
696.5	65°	581.5	341.6	284.9	211.6	179.1	171.6	169.9	145.0	126.6	125.0
643.1	67.5°	485.7	280.7	236.6	178.3	149.1	144.1	145.8	127.5	109.1	107.5
589.8	70°	395.7	232.4	190.8	142.5	115.0	120.0	127.5	109.1	91.6	89.1
527.3	72.5°	321.6	184.9	149.1	109.1	85.0	99.1	108.3	89.1	72.5	70.8
449.9	75°	248.3	135.8	106.6	74.1	61.6	76.6	85.0	65.0	51.7	49.2
348.2	77.5°	165.8	84.1	60.0	46.7	36.7	52.5	56.6	34.2	30.0	29.2
253.3	80°	100.8	39.2	25.8	22.5	12.5	19.2	22.5	14.2	15.8	16.7
135.0	82.5°	50.8	10.8	4.2	0.8	0.0	0.0	6.7	3.3	6.7	8.3
36.7	85°	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.2
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: P947088
 CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1674.5	0°	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5
1471.2	2.5°	1517.9	1552.9	1586.2	1639.5	1694.5	1748.6	1803.6	1856.9	1876.1	1890.3
1270.4	5°	1342.9	1408.7	1485.4	1591.2	1704.5	1821.1	1939.4	2047.7	2096.9	2130.2
1081.3	7.5°	1162.1	1248.0	1357.9	1517.0	1694.5	1880.3	2066.0	2236.8	2316.0	2380.1
903.1	10°	983.0	1076.3	1215.5	1397.1	1637.0	1903.6	2160.2	2395.1	2497.6	2578.4
774.8	12.5°	825.6	913.1	1058.8	1259.6	1547.0	1885.3	2214.3	2496.7	2617.5	2708.3
683.1	15°	714.8	776.4	905.6	1122.2	1440.4	1826.1	2217.7	2545.1	2677.5	2772.5
644.8	17.5°	653.1	674.0	758.1	982.2	1322.1	1748.6	2186.8	2561.7	2703.3	2791.7
610.6	20°	619.8	623.1	646.5	800.6	1170.5	1676.2	2157.7	2578.4	2727.5	2801.7
586.5	22.5°	593.2	593.2	599.0	654.8	974.7	1589.5	2148.5	2607.5	2760.8	2806.7
559.0	25°	569.0	569.0	570.7	585.7	772.3	1457.1	2142.7	2652.5	2806.7	2819.1
531.5	27.5°	544.0	544.8	544.8	553.2	622.3	1277.1	2117.7	2710.8	2861.6	2835.8
504.8	30°	519.0	520.7	520.7	526.5	550.7	1066.3	2068.5	2780.8	2933.3	2857.5
478.2	32.5°	494.0	495.7	495.7	500.7	518.2	851.4	2006.9	2845.0	3005.8	2866.6
452.4	35°	468.2	470.7	469.0	475.7	494.0	677.3	1928.6	2909.1	3084.1	2895.8
427.4	37.5°	442.4	444.0	443.2	449.9	470.7	584.8	1837.8	2957.4	3190.7	2960.8
400.7	40°	416.5	415.7	415.7	423.2	445.7	558.2	1723.6	3034.1	3344.0	3074.9
374.1	42.5°	389.9	389.9	388.2	396.5	424.0	538.2	1614.5	3171.5	3567.3	3256.5
349.1	45°	365.7	364.9	361.6	369.1	403.2	503.2	1576.2	3428.1	3897.2	3550.6
324.1	47.5°	342.4	341.6	333.2	339.9	378.2	471.5	1719.5	3848.0	4354.5	3983.0
304.1	50°	321.6	322.4	306.6	312.4	353.2	447.4	2030.2	4392.8	4961.8	4565.3
287.4	52.5°	302.4	302.4	281.6	284.9	322.4	425.7	2326.0	4983.5	5763.3	5377.5
269.9	55°	283.2	281.6	258.3	259.9	291.6	394.9	2370.1	5560.0	6856.3	6599.7
250.8	57.5°	261.6	258.3	236.6	236.6	263.3	372.4	2054.4	6003.2	8212.5	8395.8
214.9	60°	234.9	232.4	218.3	214.1	240.8	392.4	1449.6	6054.8	9087.3	10784.2
170.8	62.5°	200.8	204.1	196.6	190.8	219.1	407.4	858.9	5639.1	8875.6	11544.0
132.5	65°	158.3	171.6	169.9	165.8	240.8	343.2	507.3	4841.0	8226.7	10930.9
115.8	67.5°	135.0	144.1	141.6	141.6	252.4	260.8	319.1	3782.2	7333.6	10203.6
96.6	70°	115.0	124.1	115.0	115.0	190.8	158.3	220.8	2640.9	6369.7	9398.8
77.5	72.5°	95.0	104.1	94.1	87.5	152.5	118.3	161.6	1650.3	5455.0	8560.7
55.0	75°	72.5	83.3	75.8	67.5	100.8	88.3	122.5	958.9	4519.5	7324.5
33.3	77.5°	45.8	60.0	56.6	47.5	74.1	64.1	88.3	570.7	3487.3	5723.3
20.0	80°	28.3	30.8	31.7	30.0	42.5	43.3	60.0	324.9	2386.8	3988.8
12.5	82.5°	18.3	18.3	14.2	15.8	20.8	25.0	34.2	122.5	1402.9	2428.4
7.5	85°	13.3	11.7	7.5	7.5	10.0	12.5	13.3	37.5	569.0	958.9
3.3	87.5°	6.7	5.8	2.5	3.3	5.0	4.2	3.3	1.7	143.3	306.6
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: P947088
 CATALOG NUMBER: GALN-SB2C-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1674.5	0°	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5	1674.5
1921.9	2.5°	1938.6	1964.4	1966.1	1966.1	1943.6	1942.7	1896.9	1891.9
2205.2	5°	2282.6	2299.3	2303.5	2295.1	2250.2	2216.8	2127.7	2108.5
2494.2	7.5°	2597.5	2630.9	2630.9	2610.9	2537.6	2469.3	2340.1	2291.8
2733.3	10°	2849.1	2887.5	2879.1	2838.3	2745.8	2651.7	2495.1	2431.8
2878.3	12.5°	2971.6	3010.8	2989.1	2942.4	2852.5	2753.3	2588.4	2516.7
2920.0	15°	2969.1	2958.3	2935.8	2929.9	2886.6	2811.6	2657.5	2579.2
2894.1	17.5°	2863.3	2771.7	2754.2	2812.5	2867.5	2849.1	2717.5	2644.2
2832.5	20°	2695.9	2535.9	2520.1	2631.7	2788.3	2868.3	2773.3	2705.8
2743.3	22.5°	2519.2	2346.8	2310.1	2433.4	2669.2	2874.1	2844.1	2776.7
2645.0	25°	2351.8	2178.5	2141.9	2256.8	2536.7	2864.1	2920.8	2863.3
2550.9	27.5°	2211.8	2044.4	2010.2	2125.2	2409.3	2835.8	2997.4	2956.6
2457.6	30°	2103.5	1948.6	1923.6	2034.4	2299.3	2800.8	3094.9	3072.4
2370.9	32.5°	2040.2	1926.9	1936.1	2026.9	2240.2	2762.5	3188.2	3199.0
2328.5	35°	2102.7	2107.7	2187.7	2225.2	2295.1	2756.7	3314.8	3357.3
2379.3	37.5°	2413.4	2586.7	2752.5	2721.7	2564.2	2824.1	3503.9	3583.1
2600.9	40°	2942.4	3298.2	3567.3	3449.8	3053.2	3030.8	3776.4	3894.7
2994.1	42.5°	3588.9	4192.1	4635.3	4320.4	3683.9	3392.3	4165.4	4316.2
3469.8	45°	4271.2	5294.2	5992.4	5337.6	4356.2	3898.8	4754.4	4872.7
3915.5	47.5°	4990.2	6633.8	7536.9	6465.5	4979.3	4475.3	5557.5	5585.0
4337.9	50°	5776.6	8102.5	9111.4	7592.7	5580.8	5135.9	6538.9	6507.2
4830.2	52.5°	6525.5	9612.9	10652.6	8724.9	6109.0	5955.7	7677.7	7612.7
5503.3	55°	7240.3	11122.5	12203.0	9812.9	6607.2	7038.7	9030.6	8637.4
6473.9	57.5°	8069.2	12479.6	13800.8	10905.9	7303.6	8444.9	10543.5	9232.2
8332.5	60°	9294.7	14021.6	15607.8	12403.7	8628.2	9922.8	11085.8	9118.9
10558.5	62.5°	10859.2	15439.5	16921.5	13871.6	9958.7	10201.1	10286.9	8245.8
10104.4	65°	11163.3	15798.6	16995.7	14264.0	9787.0	8653.2	8398.3	6628.0
9025.6	67.5°	10356.9	15149.6	15959.3	13533.4	8657.4	6687.1	6302.3	4808.5
8317.5	70°	9452.1	13912.5	14153.2	12291.3	7614.4	4918.5	4256.2	3085.7
7832.6	72.5°	8524.9	12262.1	11763.9	10674.3	6692.1	3581.4	3069.9	2193.5
7142.0	75°	7423.6	10091.9	9266.4	8869.0	5540.8	2810.8	2221.0	1513.7
6143.1	77.5°	5944.9	7103.7	6882.9	6874.6	4163.7	2053.5	1482.1	948.9
4799.4	80°	4193.7	4610.3	4497.8	5177.6	2793.3	1489.5	892.2	528.2
3340.7	82.5°	2030.2	2549.2	2616.7	3083.2	1358.8	876.4	205.8	115.0
1306.3	85°	794.8	1229.6	1037.2	1170.5	381.6	244.1	5.0	0.0
214.9	87.5°	89.1	142.5	130.8	103.3	46.7	10.0	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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