

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: P947044

Luminaire Tested: **GALN-SB2C-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947044
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-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11430 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

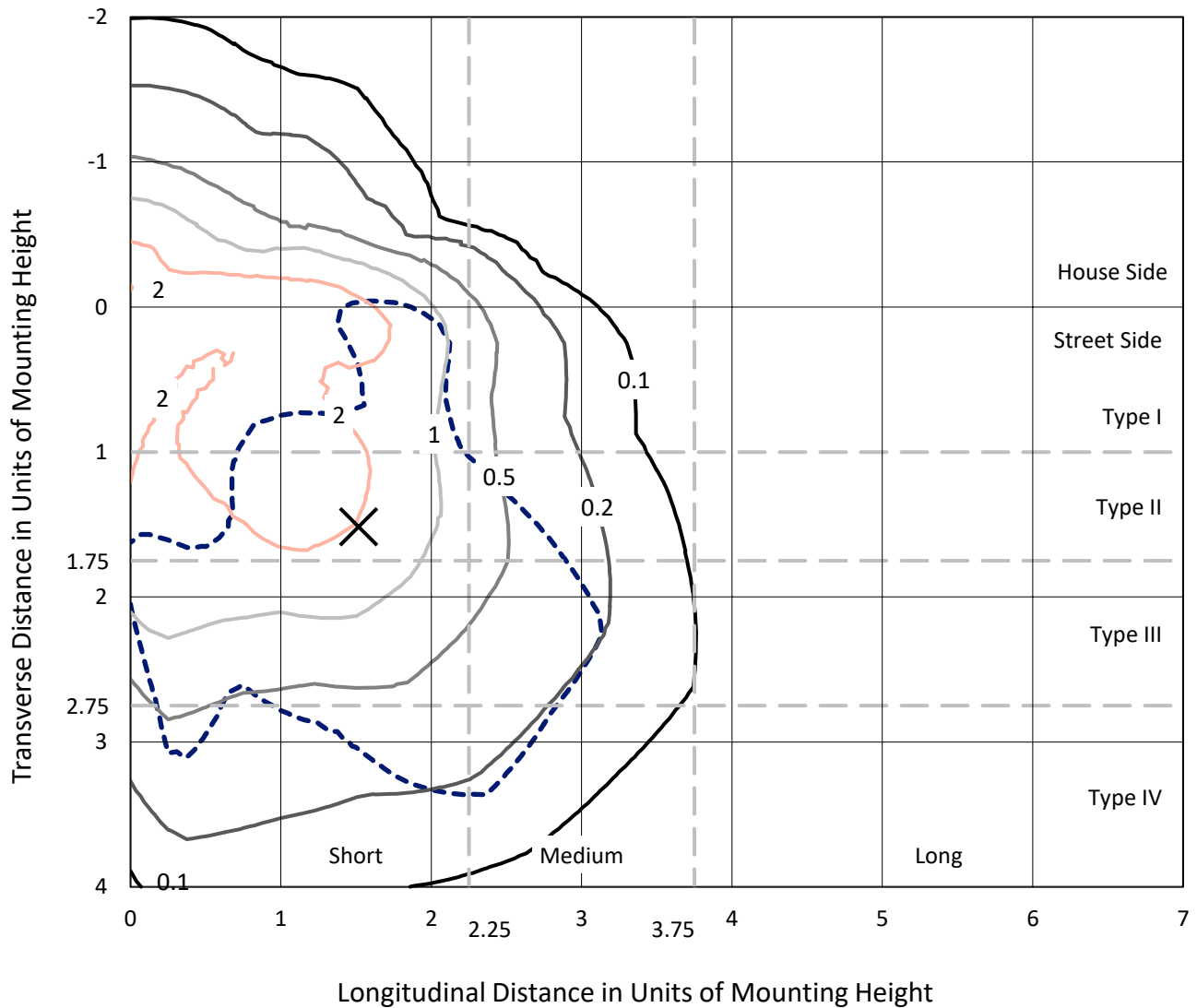
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947044
 CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

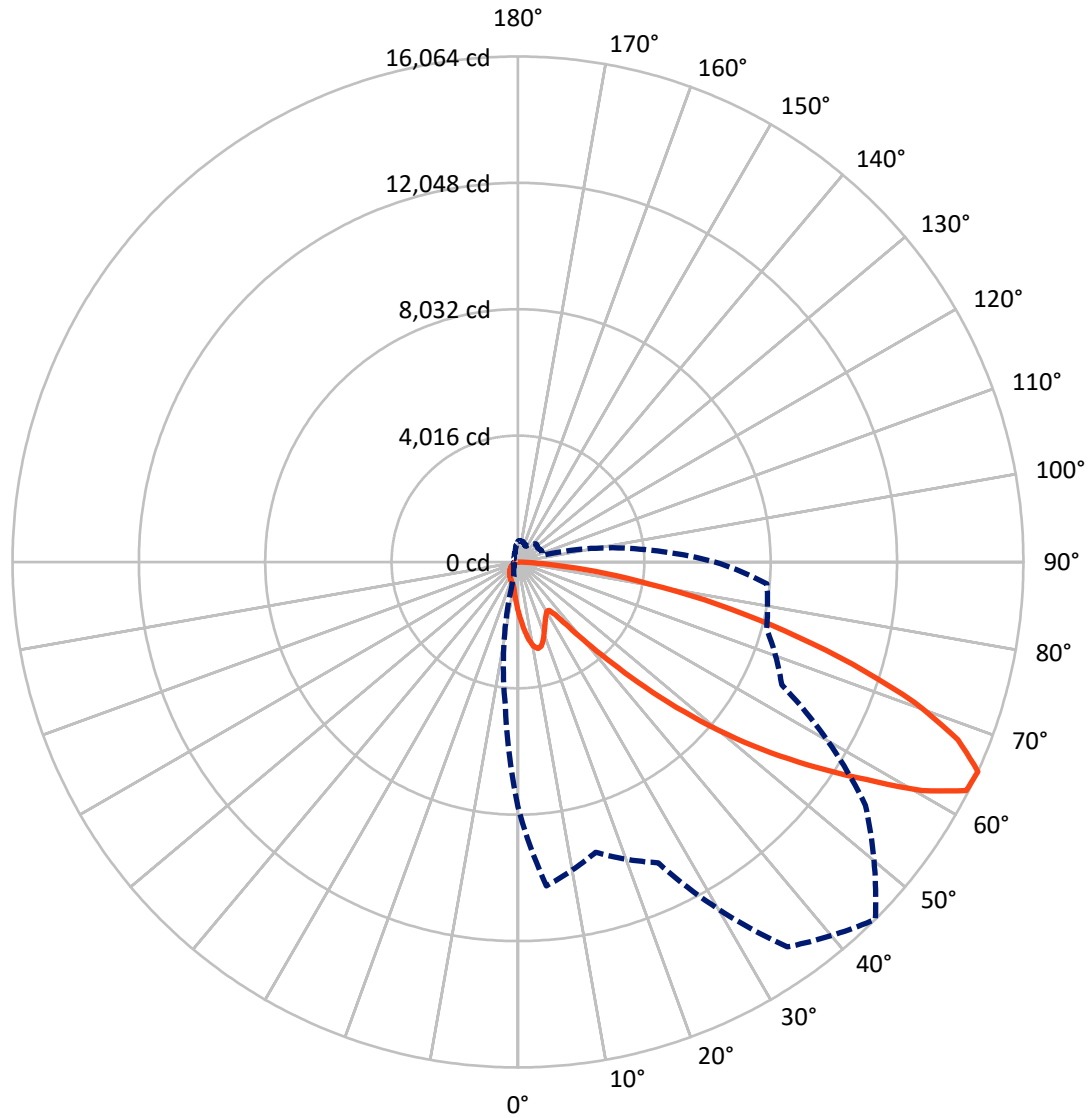
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P947044
CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P947044
 CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2271.9	0.0	2271.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	9158.1	0.0	9158.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	11430.0	0.0	11430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	1.4
10°-20°	467.1	4.1
20°-30°	688.1	6.0
30°-40°	884.1	7.7
40°-50°	1429.8	12.5
50°-60°	2507.3	21.9
60°-70°	3137.3	27.4
70°-80°	1833.3	16.0
80°-90°	327.1	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°	11430.0	100.0
0°-180°	11430.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947044

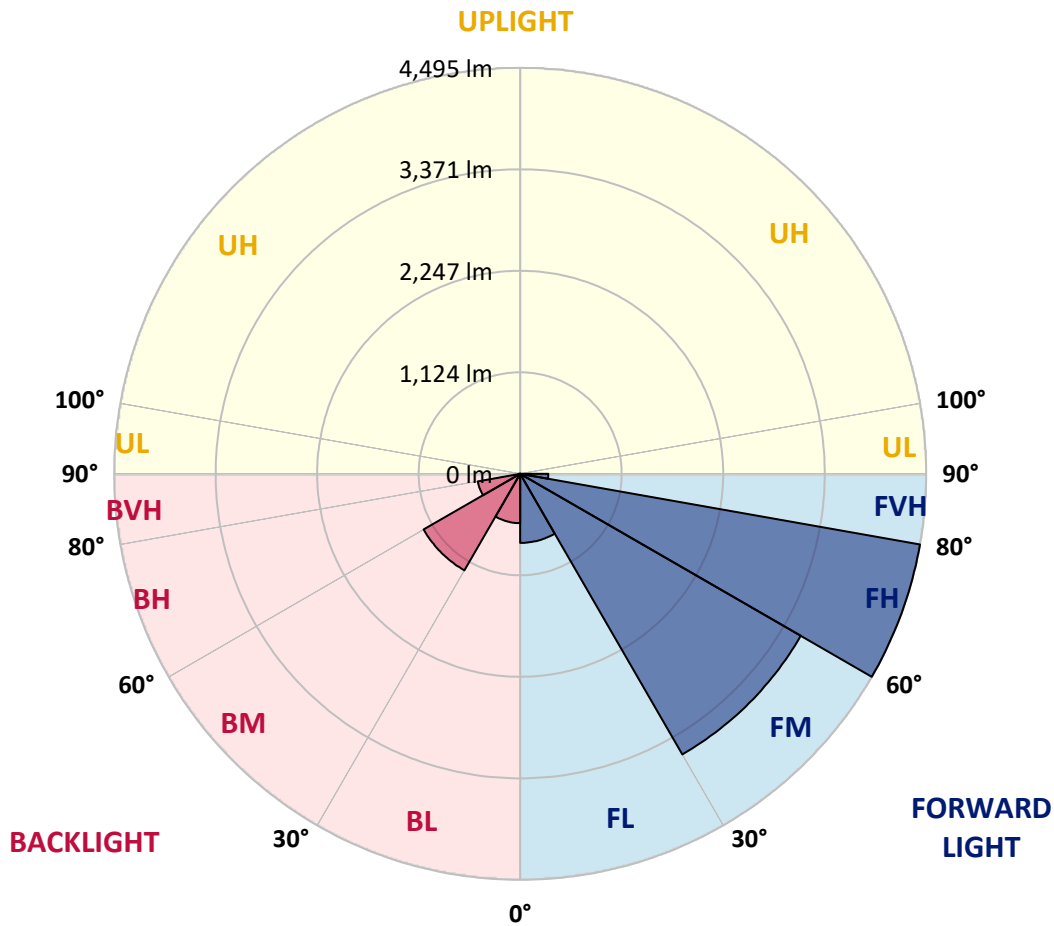
CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.8	6.7			
FM (30°-60°)	3586.9	31.4			
FH (60°-80°)	4494.6	39.3			G2/5000
FVH (80°-90°)	311.8	2.7			G3/500
BL (0°-30°)	546.3	4.8	B2/1000		
BM (30°-60°)	1234.3	10.8	B2/2500		
BH (60°-80°)	476.0	4.2	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



REPORT NUMBER: P947044
 CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
2.5°	1773.2	1786.6	1816.5	1832.3	1856.7	1858.3	1858.3	1837.0	1836.2	1792.9
5°	1981.9	2013.4	2084.3	2157.5	2173.2	2177.2	2169.3	2126.8	2095.3	2011.0
7.5°	2189.0	2249.6	2357.5	2455.1	2486.6	2486.6	2467.7	2398.4	2333.9	2211.8
10°	2360.6	2437.0	2583.5	2692.9	2729.2	2721.3	2682.7	2595.3	2506.3	2358.3
12.5°	2474.0	2559.9	2720.5	2808.7	2845.7	2825.2	2781.1	2696.1	2602.4	2446.5
15°	2530.7	2620.5	2759.9	2806.3	2796.1	2774.8	2769.3	2728.4	2657.5	2511.8
17.5°	2555.1	2638.6	2735.5	2706.3	2619.7	2603.2	2658.3	2710.3	2692.9	2568.5
20°	2578.0	2648.1	2677.2	2548.1	2396.9	2381.9	2487.4	2635.5	2711.0	2621.3
22.5°	2609.5	2652.8	2592.9	2381.1	2218.1	2183.5	2300.0	2522.9	2716.6	2688.2
25°	2652.8	2664.6	2500.0	2222.9	2059.1	2024.4	2133.1	2397.7	2707.1	2760.7
27.5°	2704.7	2680.3	2411.0	2090.6	1932.3	1900.0	2008.7	2277.2	2680.3	2833.1
30°	2772.5	2700.8	2322.9	1988.2	1841.7	1818.1	1922.8	2173.2	2647.3	2925.2
32.5°	2841.0	2709.5	2241.0	1928.4	1821.3	1829.9	1915.8	2117.3	2611.0	3013.4
35°	2915.0	2737.0	2200.8	1987.4	1992.1	2067.7	2103.2	2169.3	2605.5	3133.1
37.5°	3015.8	2798.4	2248.8	2281.1	2444.9	2601.6	2572.5	2423.6	2669.3	3311.8
40°	3160.7	2906.3	2458.3	2781.1	3117.3	3371.7	3260.7	2885.8	2864.6	3569.3
42.5°	3371.7	3078.0	2829.9	3392.2	3962.2	4381.1	4083.5	3481.9	3206.3	3937.0
45°	3683.5	3355.9	3279.6	4037.0	5004.0	5663.8	5044.9	4117.4	3685.1	4493.7
47.5°	4115.8	3764.6	3700.8	4716.6	6270.1	7123.7	6111.1	4706.3	4230.0	5252.8
50°	4689.8	4315.0	4100.0	5459.9	7658.3	8611.9	7176.4	5274.8	4854.4	6180.4
52.5°	5447.3	5082.7	4565.4	6167.8	9085.9	10068.6	8246.5	5774.1	5629.2	7256.7
55°	6480.4	6237.8	5201.6	6843.4	10512.7	11533.9	9274.9	6244.9	6652.8	8535.5
57.5°	7762.3	7935.5	6118.9	7626.8	11795.4	13044.2	10308.0	6903.2	7982.0	9965.4
60°	8589.0	10193.0	7875.7	8785.1	13252.9	14752.1	11723.7	8155.2	9378.8	10478.0
62.5°	8389.0	10911.1	9979.6	10263.9	14593.0	15993.8	13111.1	9412.7	9641.8	9722.9
65°	7775.7	10331.6	9550.5	10551.3	14932.4	16063.9	13482.0	9250.5	8178.8	7937.9
67.5°	6931.5	9644.2	8530.8	9789.1	14319.0	15084.4	12791.4	8182.7	6320.5	5956.7
70°	6020.5	8883.5	7861.5	8933.9	13149.7	13377.3	11617.4	7196.9	4648.9	4022.9
72.5°	5155.9	8091.4	7403.2	8057.5	11589.9	11119.0	10089.1	6325.2	3385.1	2901.6
75°	4271.7	6922.9	6750.4	7016.6	9538.7	8758.3	8382.7	5237.0	2656.7	2099.2
77.5°	3296.1	5409.5	5806.3	5618.9	6714.2	6505.6	6497.7	3935.5	1941.0	1400.8
80°	2255.9	3770.1	4536.3	3963.8	4357.5	4251.2	4893.7	2640.2	1407.9	843.3
82.5°	1326.0	2295.3	3157.5	1918.9	2409.5	2473.2	2914.2	1284.3	828.4	194.5
85°	537.8	906.3	1234.7	751.2	1162.2	980.3	1106.3	360.6	230.7	4.7
87.5°	135.4	289.8	203.2	84.3	134.6	123.6	97.6	44.1	9.4	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: P947044
 CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1582.7	0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
1788.2	2.5°	1757.5	1739.4	1694.5	1649.6	1613.4	1564.6	1532.3	1493.7	1456.7	1423.6
1992.9	5°	1943.3	1883.5	1801.6	1726.8	1650.4	1576.4	1503.2	1426.0	1355.1	1311.8
2166.2	7.5°	2094.5	1989.0	1880.3	1785.1	1692.9	1606.3	1509.5	1415.8	1304.7	1245.7
2298.4	10°	2207.1	2068.5	1926.0	1816.5	1723.6	1639.4	1557.5	1463.0	1329.1	1255.1
2378.8	12.5°	2281.1	2116.6	1949.6	1824.4	1720.5	1655.1	1618.9	1581.9	1448.8	1362.2
2437.8	15°	2332.3	2150.4	1966.2	1806.3	1678.8	1630.7	1666.9	1709.5	1624.4	1524.4
2499.2	17.5°	2388.2	2194.5	1973.2	1757.5	1597.7	1577.2	1670.9	1769.3	1765.4	1666.2
2557.5	20°	2447.3	2233.1	1968.5	1678.8	1499.2	1517.3	1637.0	1751.2	1799.2	1745.7
2624.4	22.5°	2507.9	2270.1	1950.4	1576.4	1407.1	1463.8	1583.5	1683.5	1740.2	1723.6
2706.3	25°	2584.3	2322.1	1923.6	1466.2	1330.7	1409.5	1521.3	1602.4	1641.7	1641.0
2794.5	27.5°	2675.6	2391.4	1909.5	1377.2	1276.4	1348.0	1447.3	1519.7	1547.3	1547.3
2904.0	30°	2781.9	2473.2	1893.7	1318.9	1244.9	1284.3	1361.4	1432.3	1459.9	1459.9
3023.6	32.5°	2900.0	2552.0	1855.9	1283.5	1221.3	1222.1	1270.9	1335.4	1368.5	1373.2
3173.3	35°	3041.8	2636.2	1773.2	1255.1	1193.7	1161.4	1185.0	1238.6	1278.0	1288.2
3386.6	37.5°	3227.6	2739.4	1655.1	1213.4	1151.2	1097.6	1103.2	1144.1	1187.4	1203.2
3681.1	40°	3477.2	2860.7	1532.3	1153.6	1091.3	1027.6	1025.2	1055.1	1097.6	1115.0
4079.6	42.5°	3807.1	3006.3	1415.0	1096.1	1018.9	953.6	949.6	973.2	1010.2	1028.4
4605.5	45°	4229.2	3185.1	1314.2	1051.2	948.0	883.5	881.9	901.6	933.9	952.8
5278.8	47.5°	4815.8	3363.8	1245.7	1027.6	892.1	826.0	829.1	846.5	875.6	889.0
6150.4	50°	5580.4	3418.1	1211.0	1027.6	862.2	774.8	790.6	804.7	826.8	834.7
7195.3	52.5°	6314.2	3238.6	1179.5	1033.9	866.1	731.5	765.4	775.6	794.5	797.6
8163.8	55°	6674.1	2784.3	1136.2	1035.4	890.6	694.5	744.9	763.8	770.9	770.1
8726.1	57.5°	6550.4	2251.2	1063.0	1029.1	907.1	670.9	719.7	755.9	760.6	753.5
8619.0	60°	6116.6	1657.5	1007.1	982.7	900.8	663.8	681.1	738.6	745.7	736.2
7793.8	62.5°	5389.0	1150.4	963.8	880.3	873.2	661.4	620.5	700.8	718.1	704.7
6264.6	65°	4242.6	812.6	829.9	771.7	813.4	648.8	557.5	655.1	678.7	658.3
4544.9	67.5°	2870.9	586.6	672.4	699.2	716.5	620.5	511.8	603.2	634.7	607.9
2916.6	70°	1550.4	411.8	444.1	589.0	608.7	571.7	470.9	550.4	586.6	557.5
2073.2	72.5°	915.8	296.1	311.0	473.2	507.1	503.2	425.2	489.0	533.1	498.4
1430.7	75°	504.7	200.0	222.0	343.3	411.8	388.2	365.4	414.2	459.1	425.2
896.9	77.5°	226.0	119.7	154.3	225.2	323.6	266.1	282.7	322.8	364.6	329.1
499.2	80°	87.4	66.9	102.4	122.8	235.4	147.2	181.9	237.8	267.7	239.4
108.7	82.5°	11.0	29.9	44.1	48.0	137.0	78.0	105.5	149.6	147.2	127.6
0.0	85°	0.0	5.5	6.3	3.1	59.1	28.3	34.6	48.8	45.7	34.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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: P947044
 CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1582.7	0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
1417.3	2.5°	1378.8	1350.4	1336.2	1324.4	1335.4	1341.7	1341.7	1368.5	1384.3	1390.6
1284.3	5°	1215.0	1162.2	1126.8	1105.5	1112.6	1120.5	1129.1	1163.0	1185.8	1200.8
1192.1	7.5°	1085.8	1005.5	955.9	929.9	933.9	939.4	946.5	979.5	1002.4	1022.1
1174.8	10°	1022.1	908.7	843.3	811.8	806.3	803.2	800.8	820.5	837.8	853.5
1245.7	12.5°	1025.2	866.9	787.4	748.8	732.3	713.4	698.4	701.6	712.6	732.3
1372.5	15°	1065.4	853.5	758.3	710.2	682.7	660.6	642.5	638.6	642.5	645.7
1517.3	17.5°	1119.7	852.0	733.1	673.2	644.9	626.8	610.2	604.7	605.5	609.5
1613.4	20°	1163.0	847.3	704.7	637.8	612.6	596.9	580.3	574.8	576.4	577.2
1622.8	22.5°	1185.8	840.2	673.2	602.4	581.1	565.4	550.4	549.6	549.6	554.3
1571.7	25°	1185.8	825.2	644.9	568.5	549.6	535.4	517.3	520.5	522.1	528.4
1492.1	27.5°	1157.5	796.9	622.1	539.4	519.7	505.5	489.0	492.9	495.3	502.4
1413.4	30°	1121.3	763.0	596.1	511.8	489.0	478.7	464.6	466.1	469.3	477.2
1340.2	32.5°	1082.7	722.8	574.8	484.3	461.4	453.5	437.8	440.2	443.3	452.0
1267.7	35°	1040.2	675.6	549.6	459.1	436.2	429.9	411.8	413.4	418.1	427.6
1189.8	37.5°	995.3	637.0	524.4	434.6	411.0	404.7	385.8	387.4	392.9	403.9
1107.9	40°	951.2	599.2	497.6	408.7	385.0	379.5	359.1	360.6	366.9	378.7
1025.2	42.5°	903.2	570.1	463.0	381.9	356.7	351.2	332.3	334.6	341.7	353.5
948.8	45°	845.7	551.2	424.4	356.7	328.3	322.8	305.5	310.2	318.1	329.9
883.5	47.5°	786.6	543.3	392.1	329.9	299.2	294.5	280.3	288.2	296.9	306.3
827.6	50°	729.9	533.1	359.1	304.7	274.0	269.3	259.8	270.1	278.7	287.4
787.4	52.5°	665.4	511.0	329.1	282.7	252.8	251.2	246.5	255.9	263.8	271.7
752.8	55°	598.4	475.6	303.2	263.0	234.6	236.2	233.9	241.7	248.0	255.1
721.3	57.5°	540.2	430.7	282.7	241.7	218.9	223.6	220.5	224.4	228.3	237.0
683.5	60°	481.1	377.2	259.8	216.5	203.2	208.7	200.0	199.2	200.8	203.2
627.6	62.5°	401.6	321.3	231.5	194.5	185.8	188.2	171.7	159.1	159.1	161.4
549.6	65°	322.8	269.3	200.0	169.3	162.2	160.6	137.0	119.7	118.1	125.2
459.1	67.5°	265.4	223.6	168.5	140.9	136.2	137.8	120.5	103.2	101.6	109.4
374.0	70°	219.7	180.3	134.6	108.7	113.4	120.5	103.2	86.6	84.3	91.3
303.9	72.5°	174.8	140.9	103.2	80.3	93.7	102.4	84.3	68.5	66.9	73.2
234.6	75°	128.3	100.8	70.1	58.3	72.4	80.3	61.4	48.8	46.5	52.0
156.7	77.5°	79.5	56.7	44.1	34.6	49.6	53.5	32.3	28.3	27.6	31.5
95.3	80°	37.0	24.4	21.3	11.8	18.1	21.3	13.4	15.0	15.7	18.9
48.0	82.5°	10.2	3.9	0.8	0.0	0.0	6.3	3.1	6.3	7.9	11.8
3.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9	7.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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: P947044
 CATALOG NUMBER: GALN-SB2C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1582.7	0°	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7	1582.7
1434.7	2.5°	1467.7	1499.2	1549.6	1601.6	1652.8	1704.7	1755.1	1773.2
1269.3	5°	1331.5	1403.9	1503.9	1611.0	1721.3	1833.1	1935.4	1981.9
1098.4	7.5°	1179.5	1283.5	1433.9	1601.6	1777.2	1952.8	2114.2	2189.0
929.1	10°	1017.3	1148.8	1320.5	1547.3	1799.2	2041.7	2263.8	2360.6
780.3	12.5°	863.0	1000.8	1190.6	1462.2	1781.9	2092.9	2359.9	2474.0
675.6	15°	733.9	855.9	1060.6	1361.4	1726.0	2096.1	2405.5	2530.7
617.3	17.5°	637.0	716.5	928.4	1249.6	1652.8	2066.9	2421.3	2555.1
585.8	20°	589.0	611.0	756.7	1106.3	1584.3	2039.4	2437.0	2578.0
560.6	22.5°	560.6	566.1	618.9	921.3	1502.4	2030.7	2464.6	2609.5
537.8	25°	537.8	539.4	553.5	729.9	1377.2	2025.2	2507.1	2652.8
514.2	27.5°	515.0	515.0	522.8	588.2	1207.1	2001.6	2562.2	2704.7
490.6	30°	492.1	492.1	497.6	520.5	1007.9	1955.1	2628.4	2772.5
466.9	32.5°	468.5	468.5	473.2	489.8	804.7	1896.9	2689.0	2841.0
442.5	35°	444.9	443.3	449.6	466.9	640.2	1822.8	2749.6	2915.0
418.1	37.5°	419.7	418.9	425.2	444.9	552.8	1737.0	2795.3	3015.8
393.7	40°	392.9	392.9	400.0	421.3	527.6	1629.1	2867.7	3160.7
368.5	42.5°	368.5	366.9	374.8	400.8	508.7	1526.0	2997.7	3371.7
345.7	45°	344.9	341.7	348.8	381.1	475.6	1489.8	3240.2	3683.5
323.6	47.5°	322.8	315.0	321.3	357.5	445.7	1625.2	3637.0	4115.8
303.9	50°	304.7	289.8	295.3	333.9	422.8	1918.9	4152.0	4689.8
285.8	52.5°	285.8	266.1	269.3	304.7	402.4	2198.4	4710.3	5447.3
267.7	55°	266.1	244.1	245.7	275.6	373.2	2240.2	5255.2	6480.4
247.2	57.5°	244.1	223.6	223.6	248.8	352.0	1941.7	5674.1	7762.3
222.0	60°	219.7	206.3	202.4	227.6	370.9	1370.1	5722.9	8589.0
189.8	62.5°	192.9	185.8	180.3	207.1	385.0	811.8	5330.0	8389.0
149.6	65°	162.2	160.6	156.7	227.6	324.4	479.5	4575.6	7775.7
127.6	67.5°	136.2	133.9	133.9	238.6	246.5	301.6	3574.8	6931.5
108.7	70°	117.3	108.7	108.7	180.3	149.6	208.7	2496.1	6020.5
89.8	72.5°	98.4	89.0	82.7	144.1	111.8	152.8	1559.9	5155.9
68.5	75°	78.7	71.7	63.8	95.3	83.5	115.7	906.3	4271.7
43.3	77.5°	56.7	53.5	44.9	70.1	60.6	83.5	539.4	3296.1
26.8	80°	29.1	29.9	28.3	40.2	40.9	56.7	307.1	2255.9
17.3	82.5°	17.3	13.4	15.0	19.7	23.6	32.3	115.7	1326.0
12.6	85°	11.0	7.1	7.1	9.4	11.8	12.6	35.4	537.8
6.3	87.5°	5.5	2.4	3.1	4.7	3.9	3.1	1.6	135.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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