

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: P946794

Luminaire Tested: **GALN-SB2B-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946794
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 7722 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

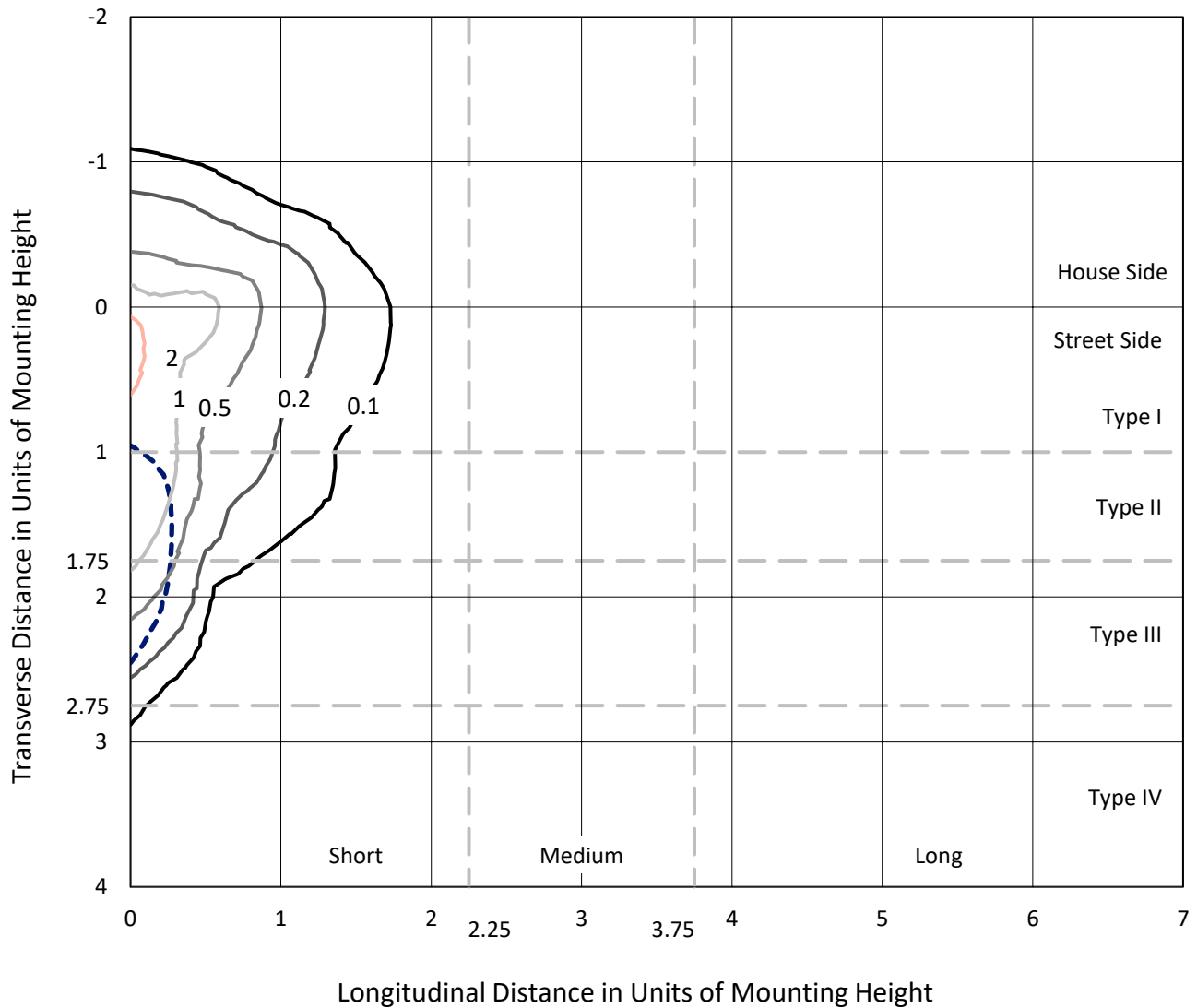
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946794
 CATALOG NUMBER: GALN-SB2B-830-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

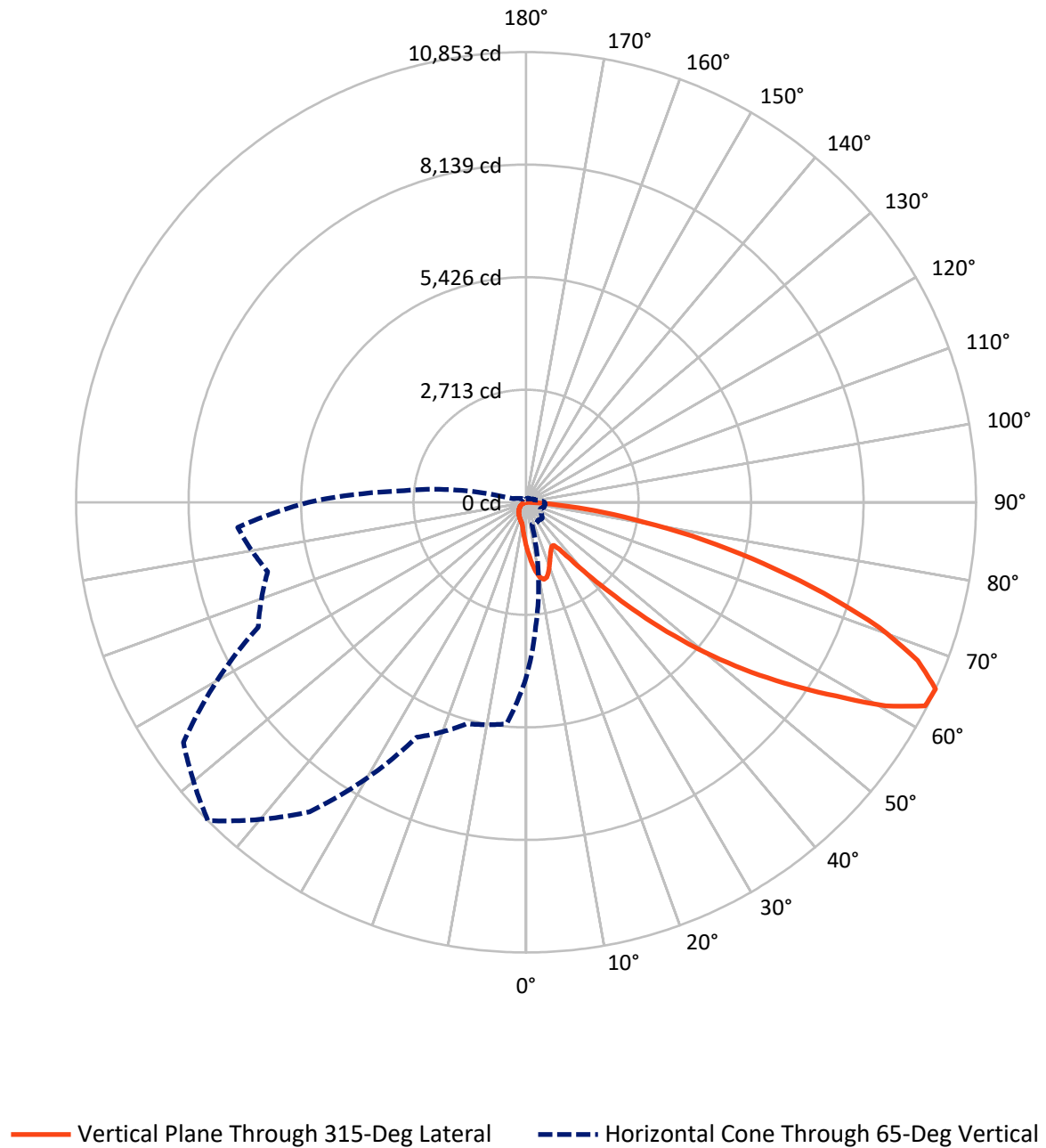
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P946794
CATALOG NUMBER: GALN-SB2B-830-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P946794

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1081.4	0.0	1081.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6640.6	0.0	6640.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	7722.0	0.0	7722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.4
10°-20°	315.6	4.1
20°-30°	464.9	6.0
30°-40°	597.3	7.7
40°-50°	966.0	12.5
50°-60°	1693.9	21.9
60°-70°	2119.5	27.4
70°-80°	1238.6	16.0
80°-90°	221.0	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°	7722.0	100.0
0°-180°	7722.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946794

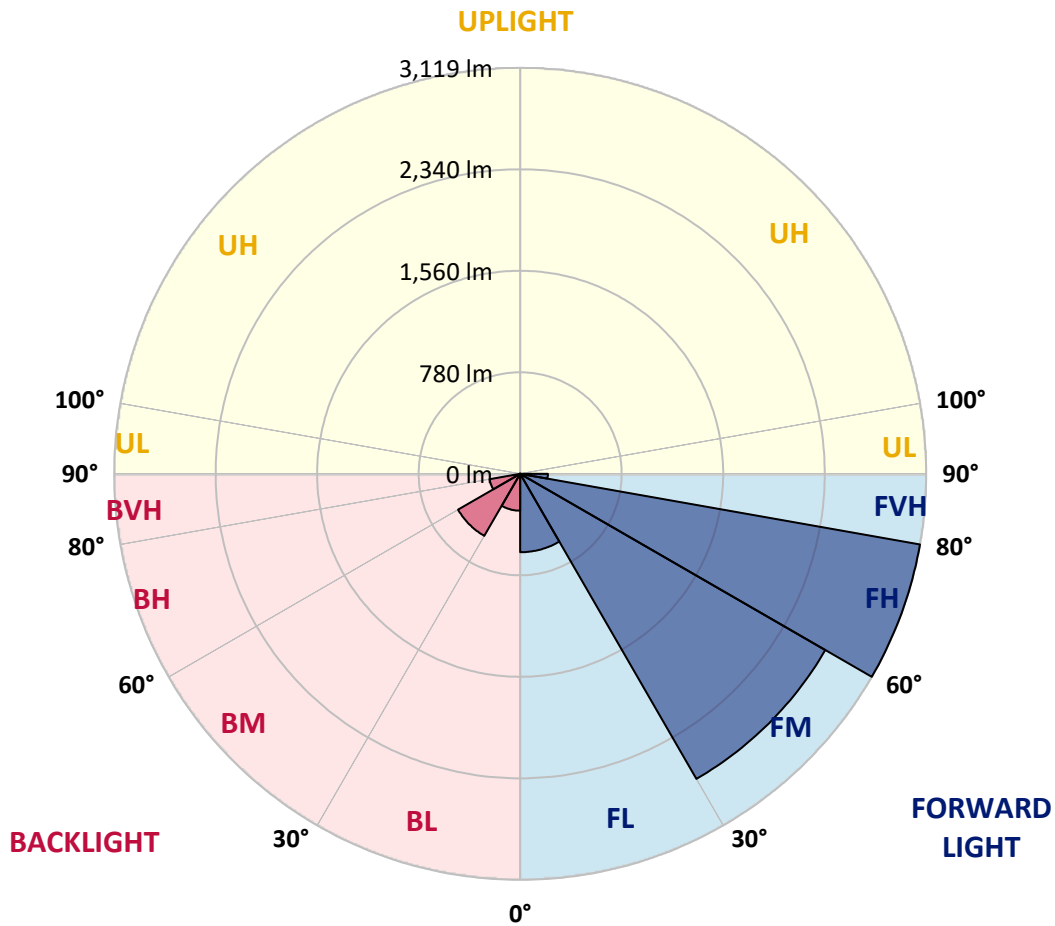
CATALOG NUMBER: GALN-SB2B-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.3	7.8			
FM (30°-60°)	2706.5	35.0			
FH (60°-80°)	3119.3	40.4			G2/5000
FVH (80°-90°)	212.5	2.8			G2/225
BL (0°-30°)	283.5	3.7	B1/500		
BM (30°-60°)	550.7	7.1	B1/1000		
BH (60°-80°)	238.8	3.1	B1/500		G1/500
BVH (80°-90°)	8.5	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: P946794

CATALOG NUMBER: GALN-SB2B-830-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
2.5°	1208.1	1187.3	1175.1	1144.8	1114.5	1090.0	1057.0	1035.2	1009.1	984.1
5°	1346.4	1312.9	1272.5	1217.1	1166.6	1115.0	1065.0	1015.5	963.4	915.5
7.5°	1463.4	1415.0	1343.7	1270.3	1206.0	1143.7	1085.2	1019.8	956.5	881.5
10°	1552.8	1491.1	1397.5	1301.2	1227.2	1164.5	1107.6	1052.2	988.4	898.0
12.5°	1607.1	1541.1	1429.9	1317.1	1232.6	1162.3	1118.2	1093.7	1068.7	978.8
15°	1647.0	1575.7	1452.8	1328.3	1220.3	1134.1	1101.7	1126.2	1154.9	1097.4
17.5°	1688.5	1613.5	1482.6	1333.1	1187.3	1079.4	1065.5	1128.8	1195.3	1192.7
20°	1727.8	1653.3	1508.7	1329.9	1134.1	1012.9	1025.1	1106.0	1183.1	1215.5
22.5°	1773.0	1694.3	1533.7	1317.7	1065.0	950.6	988.9	1069.8	1137.3	1175.6
25°	1828.4	1745.9	1568.8	1299.6	990.5	899.0	952.2	1027.8	1082.5	1109.1
27.5°	1887.9	1807.6	1615.6	1290.0	930.4	862.3	910.7	977.8	1026.7	1045.3
30°	1961.9	1879.4	1670.9	1279.4	891.0	841.0	867.6	919.8	967.6	986.3
32.5°	2042.7	1959.2	1724.1	1253.8	867.1	825.1	825.6	858.6	902.2	924.6
35°	2143.8	2055.0	1781.0	1198.0	848.0	806.5	784.6	800.6	836.8	863.4
37.5°	2288.0	2180.5	1850.7	1118.2	819.8	777.7	741.6	745.3	772.9	802.2
40°	2486.9	2349.2	1932.6	1035.2	779.3	737.3	694.2	692.6	712.8	741.6
42.5°	2756.1	2572.1	2031.0	955.9	740.5	688.4	644.2	641.5	657.5	682.5
45°	3111.5	2857.2	2151.8	887.8	710.2	640.5	596.9	595.8	609.1	630.9
47.5°	3566.3	3253.5	2272.6	841.6	694.2	602.7	558.0	560.2	571.9	591.5
50°	4155.2	3770.0	2309.3	818.2	694.2	582.5	523.5	534.1	543.7	558.6
52.5°	4861.1	4265.8	2188.0	796.9	698.5	585.2	494.2	517.1	524.0	536.8
55°	5515.4	4508.9	1881.0	767.6	699.5	601.7	469.2	503.2	516.0	520.8
57.5°	5895.2	4425.4	1520.9	718.2	695.3	612.8	453.2	486.2	510.7	513.9
60°	5822.9	4132.3	1119.8	680.4	663.9	608.6	448.4	460.1	499.0	503.8
62.5°	5265.4	3640.8	777.2	651.1	594.7	589.9	446.9	419.2	473.4	485.2
65°	4232.3	2866.2	549.0	560.7	521.3	549.5	438.3	376.6	442.6	458.6
67.5°	3070.5	1939.5	396.3	454.3	472.4	484.1	419.2	345.8	407.5	428.8
70°	1970.4	1047.4	278.2	300.0	397.9	411.2	386.2	318.1	371.8	396.3
72.5°	1400.7	618.7	200.0	210.1	319.7	342.6	339.9	287.3	330.4	360.1
75°	966.6	341.0	135.1	150.0	231.9	278.2	262.3	246.8	279.8	310.1
77.5°	605.9	152.7	80.9	104.3	152.1	218.6	179.8	191.0	218.1	246.3
80°	337.3	59.0	45.2	69.2	83.0	159.1	99.5	122.9	160.7	180.9
82.5°	73.4	7.4	20.2	29.8	32.4	92.6	52.7	71.3	101.1	99.5
85°	0.0	0.0	3.7	4.3	2.1	39.9	19.2	23.4	33.0	30.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946794
 CATALOG NUMBER: GALN-SB2B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1069.2	0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
961.8	2.5°	957.5	931.5	912.3	902.7	894.8	902.2	906.5	906.5	924.6	935.2
886.3	5°	867.6	820.8	785.2	761.2	746.9	751.7	757.0	762.8	785.7	801.1
841.6	7.5°	805.4	733.6	679.3	645.8	628.3	630.9	634.6	639.4	661.8	677.2
848.0	10°	793.7	690.5	613.9	569.7	548.5	544.7	542.6	541.0	554.3	566.0
920.3	12.5°	841.6	692.6	585.7	532.0	505.9	494.7	482.0	471.9	474.0	481.4
1029.9	15°	927.2	719.7	576.7	512.3	479.8	461.2	446.3	434.1	431.4	434.1
1125.6	17.5°	1025.1	756.5	575.6	495.3	454.8	435.7	423.4	412.3	408.5	409.1
1179.4	20°	1090.0	785.7	572.4	476.1	430.9	413.9	403.2	392.1	388.3	389.4
1164.5	22.5°	1096.4	801.1	567.6	454.8	407.0	392.6	382.0	371.8	371.3	371.3
1108.6	25°	1061.8	801.1	557.5	435.7	384.1	371.3	361.7	349.5	351.6	352.7
1045.3	27.5°	1008.1	782.0	538.3	420.3	364.4	351.1	341.5	330.4	333.0	334.6
986.3	30°	954.9	757.5	515.5	402.7	345.8	330.4	323.4	313.9	314.9	317.1
927.7	32.5°	905.4	731.5	488.3	388.3	327.2	311.7	306.4	295.8	297.4	299.5
870.3	35°	856.5	702.7	456.4	371.3	310.1	294.7	290.5	278.2	279.3	282.5
812.8	37.5°	803.8	672.4	430.4	354.3	293.6	277.7	273.4	260.7	261.7	265.5
753.3	40°	748.5	642.6	404.8	336.2	276.1	260.1	256.4	242.6	243.6	247.9
694.7	42.5°	692.6	610.2	385.1	312.8	258.0	241.0	237.3	224.5	226.1	230.9
643.7	45°	641.0	571.3	372.4	286.7	241.0	221.8	218.1	206.4	209.6	214.9
600.6	47.5°	596.9	531.4	367.1	264.9	222.9	202.1	199.0	189.4	194.7	200.6
563.9	50°	559.1	493.1	360.1	242.6	205.9	185.1	181.9	175.5	182.5	188.3
538.9	52.5°	532.0	449.5	345.2	222.4	191.0	170.8	169.7	166.5	172.9	178.2
520.3	55°	508.6	404.3	321.3	204.8	177.7	158.5	159.6	158.0	163.3	167.6
509.1	57.5°	487.3	364.9	291.0	191.0	163.3	147.9	151.1	149.0	151.6	154.3
497.4	60°	461.7	325.0	254.8	175.5	146.3	137.2	141.0	135.1	134.6	135.7
476.1	62.5°	424.0	271.3	217.0	156.4	131.4	125.5	127.1	116.0	107.5	107.5
444.7	65°	371.3	218.1	181.9	135.1	114.4	109.6	108.5	92.6	80.9	79.8
410.7	67.5°	310.1	179.3	151.1	113.8	95.2	92.0	93.1	81.4	69.7	68.6
376.6	70°	252.7	148.4	121.8	91.0	73.4	76.6	81.4	69.7	58.5	56.9
336.7	72.5°	205.3	118.1	95.2	69.7	54.3	63.3	69.2	56.9	46.3	45.2
287.3	75°	158.5	86.7	68.1	47.3	39.4	48.9	54.3	41.5	33.0	31.4
222.4	77.5°	105.9	53.7	38.3	29.8	23.4	33.5	36.2	21.8	19.2	18.6
161.7	80°	64.4	25.0	16.5	14.4	8.0	12.2	14.4	9.0	10.1	10.6
86.2	82.5°	32.4	6.9	2.7	0.5	0.0	0.0	4.3	2.1	4.3	5.3
23.4	85°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7
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: P946794
 CATALOG NUMBER: GALN-SB2B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1069.2	0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
939.5	2.5°	969.2	991.6	1012.9	1046.9	1082.0	1116.6	1151.7	1185.8	1198.0	1207.0
811.2	5°	857.5	899.6	948.5	1016.1	1088.4	1162.9	1238.4	1307.6	1339.0	1360.2
690.5	7.5°	742.1	796.9	867.1	968.7	1082.0	1200.6	1319.3	1428.3	1478.9	1519.8
576.7	10°	627.7	687.3	776.1	892.1	1045.3	1215.5	1379.4	1529.4	1594.8	1646.4
494.7	12.5°	527.2	583.0	676.1	804.3	987.9	1203.8	1414.0	1594.3	1671.4	1729.4
436.2	15°	456.4	495.8	578.2	716.6	919.8	1166.1	1416.1	1625.2	1709.7	1770.4
411.7	17.5°	417.1	430.4	484.1	627.2	844.2	1116.6	1396.4	1635.8	1726.2	1782.6
389.9	20°	395.8	397.9	412.8	511.2	747.4	1070.3	1377.8	1646.4	1741.7	1789.0
374.5	22.5°	378.8	378.8	382.5	418.1	622.4	1015.0	1371.9	1665.1	1762.9	1792.2
356.9	25°	363.3	363.3	364.4	374.0	493.1	930.4	1368.2	1693.8	1792.2	1800.2
339.4	27.5°	347.4	347.9	347.9	353.2	397.4	815.5	1352.3	1731.0	1827.3	1810.8
322.4	30°	331.4	332.5	332.5	336.2	351.6	680.9	1320.9	1775.7	1873.0	1824.6
305.3	32.5°	315.5	316.5	316.5	319.7	330.9	543.7	1281.5	1816.7	1919.3	1830.5
288.9	35°	299.0	300.6	299.5	303.8	315.5	432.5	1231.5	1857.6	1969.3	1849.1
272.9	37.5°	282.5	283.5	283.0	287.3	300.6	373.4	1173.5	1888.5	2037.4	1890.6
255.9	40°	266.0	265.5	265.5	270.2	284.6	356.4	1100.6	1937.4	2135.3	1963.5
238.9	42.5°	249.0	249.0	247.9	253.2	270.8	343.6	1030.9	2025.2	2277.9	2079.5
222.9	45°	233.5	233.0	230.9	235.7	257.5	321.3	1006.5	2189.0	2488.5	2267.2
206.9	47.5°	218.6	218.1	212.8	217.0	241.5	301.1	1098.0	2457.1	2780.6	2543.3
194.2	50°	205.3	205.9	195.8	199.5	225.6	285.7	1296.4	2805.1	3168.4	2915.2
183.5	52.5°	193.1	193.1	179.8	181.9	205.9	271.8	1485.2	3182.2	3680.1	3433.8
172.4	55°	180.9	179.8	164.9	166.0	186.2	252.2	1513.4	3550.3	4378.1	4214.2
160.1	57.5°	167.0	164.9	151.1	151.1	168.1	237.8	1311.8	3833.3	5244.1	5361.1
137.2	60°	150.0	148.4	139.4	136.7	153.7	250.6	925.6	3866.3	5802.7	6886.3
109.1	62.5°	128.2	130.3	125.5	121.8	139.9	260.1	548.5	3600.9	5667.6	7371.4
84.6	65°	101.1	109.6	108.5	105.9	153.7	219.2	324.0	3091.2	5253.2	6979.9
73.9	67.5°	86.2	92.0	90.4	90.4	161.2	166.5	203.7	2415.1	4682.9	6515.5
61.7	70°	73.4	79.3	73.4	73.4	121.8	101.1	141.0	1686.3	4067.4	6001.6
49.5	72.5°	60.6	66.5	60.1	55.9	97.3	75.5	103.2	1053.8	3483.3	5466.5
35.1	75°	46.3	53.2	48.4	43.1	64.4	56.4	78.2	612.3	2885.9	4677.0
21.3	77.5°	29.3	38.3	36.2	30.3	47.3	41.0	56.4	364.4	2226.8	3654.6
12.8	80°	18.1	19.7	20.2	19.2	27.1	27.7	38.3	207.5	1524.1	2547.0
8.0	82.5°	11.7	11.7	9.0	10.1	13.3	16.0	21.8	78.2	895.8	1550.7
4.8	85°	8.5	7.4	4.8	4.8	6.4	8.0	8.5	23.9	363.3	612.3
2.1	87.5°	4.3	3.7	1.6	2.1	3.2	2.7	2.1	1.1	91.5	195.8
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: P946794
 CATALOG NUMBER: GALN-SB2B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1069.2	0°	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2	1069.2
1227.2	2.5°	1237.9	1254.4	1255.4	1255.4	1241.1	1240.5	1211.3	1208.1
1408.1	5°	1457.6	1468.2	1470.9	1465.6	1436.8	1415.6	1358.6	1346.4
1592.7	7.5°	1658.7	1679.9	1679.9	1667.2	1620.4	1576.7	1494.3	1463.4
1745.4	10°	1819.3	1843.8	1838.5	1812.4	1753.4	1693.2	1593.2	1552.8
1837.9	12.5°	1897.5	1922.5	1908.7	1878.9	1821.4	1758.1	1652.8	1607.1
1864.5	15°	1895.9	1889.0	1874.6	1870.9	1843.3	1795.4	1697.0	1647.0
1848.0	17.5°	1828.4	1769.8	1758.7	1795.9	1831.0	1819.3	1735.3	1688.5
1808.7	20°	1721.4	1619.3	1609.2	1680.5	1780.5	1831.6	1770.9	1727.8
1751.8	22.5°	1608.7	1498.5	1475.1	1553.9	1704.4	1835.3	1816.1	1773.0
1689.0	25°	1501.7	1391.1	1367.7	1441.1	1619.8	1828.9	1865.1	1828.4
1628.9	27.5°	1412.4	1305.4	1283.6	1357.0	1538.4	1810.8	1914.0	1887.9
1569.3	30°	1343.2	1244.3	1228.3	1299.1	1468.2	1788.5	1976.3	1961.9
1514.0	32.5°	1302.8	1230.4	1236.3	1294.3	1430.5	1764.0	2035.8	2042.7
1486.8	35°	1342.7	1345.9	1396.9	1420.9	1465.6	1760.3	2116.7	2143.8
1519.3	37.5°	1541.1	1651.8	1757.6	1737.9	1637.4	1803.4	2237.4	2288.0
1660.8	40°	1878.9	2106.0	2277.9	2202.9	1949.7	1935.3	2411.4	2486.9
1911.9	42.5°	2291.7	2676.8	2959.9	2758.8	2352.3	2166.2	2659.8	2756.1
2215.6	45°	2727.4	3380.6	3826.4	3408.3	2781.6	2489.6	3035.9	3111.5
2500.2	47.5°	3186.5	4236.0	4812.7	4128.6	3179.6	2857.7	3548.7	3566.3
2769.9	50°	3688.6	5173.9	5818.1	4848.3	3563.6	3279.6	4175.4	4155.2
3084.3	52.5°	4166.9	6138.3	6802.2	5571.3	3900.9	3803.0	4902.6	4861.1
3514.2	55°	4623.3	7102.3	7792.2	6266.0	4219.0	4494.6	5766.5	5515.4
4133.9	57.5°	5152.6	7968.8	8812.5	6964.0	4663.7	5392.5	6732.6	5895.2
5320.7	60°	5935.1	8953.5	9966.4	7920.4	5509.6	6336.2	7078.9	5822.9
6742.1	62.5°	6934.2	9858.9	10805.3	8857.8	6359.1	6513.9	6568.7	5265.4
6452.2	65°	7128.3	10088.2	10852.6	9108.3	6249.5	5525.5	5362.7	4232.3
5763.3	67.5°	6613.4	9673.8	10190.9	8641.8	5528.2	4270.1	4024.3	3070.5
5311.1	70°	6035.7	8883.8	9037.6	7848.6	4862.2	3140.7	2717.8	1970.4
5001.5	72.5°	5443.6	7830.0	7511.9	6816.1	4273.3	2286.9	1960.3	1400.7
4560.5	75°	4740.3	6444.2	5917.0	5663.3	3538.1	1794.9	1418.2	966.6
3922.7	77.5°	3796.1	4536.1	4395.1	4389.8	2658.8	1311.3	946.4	605.9
3064.7	80°	2677.9	2943.9	2872.1	3306.2	1783.7	951.2	569.7	337.3
2133.2	82.5°	1296.4	1627.8	1670.9	1968.8	867.6	559.6	131.4	73.4
834.1	85°	507.5	785.2	662.3	747.4	243.6	155.9	3.2	0.0
137.2	87.5°	56.9	91.0	83.5	66.0	29.8	6.4	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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