

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: P947863

Luminaire Tested: **GALN-SB3A-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947863
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-SB3A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA 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: 9230 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

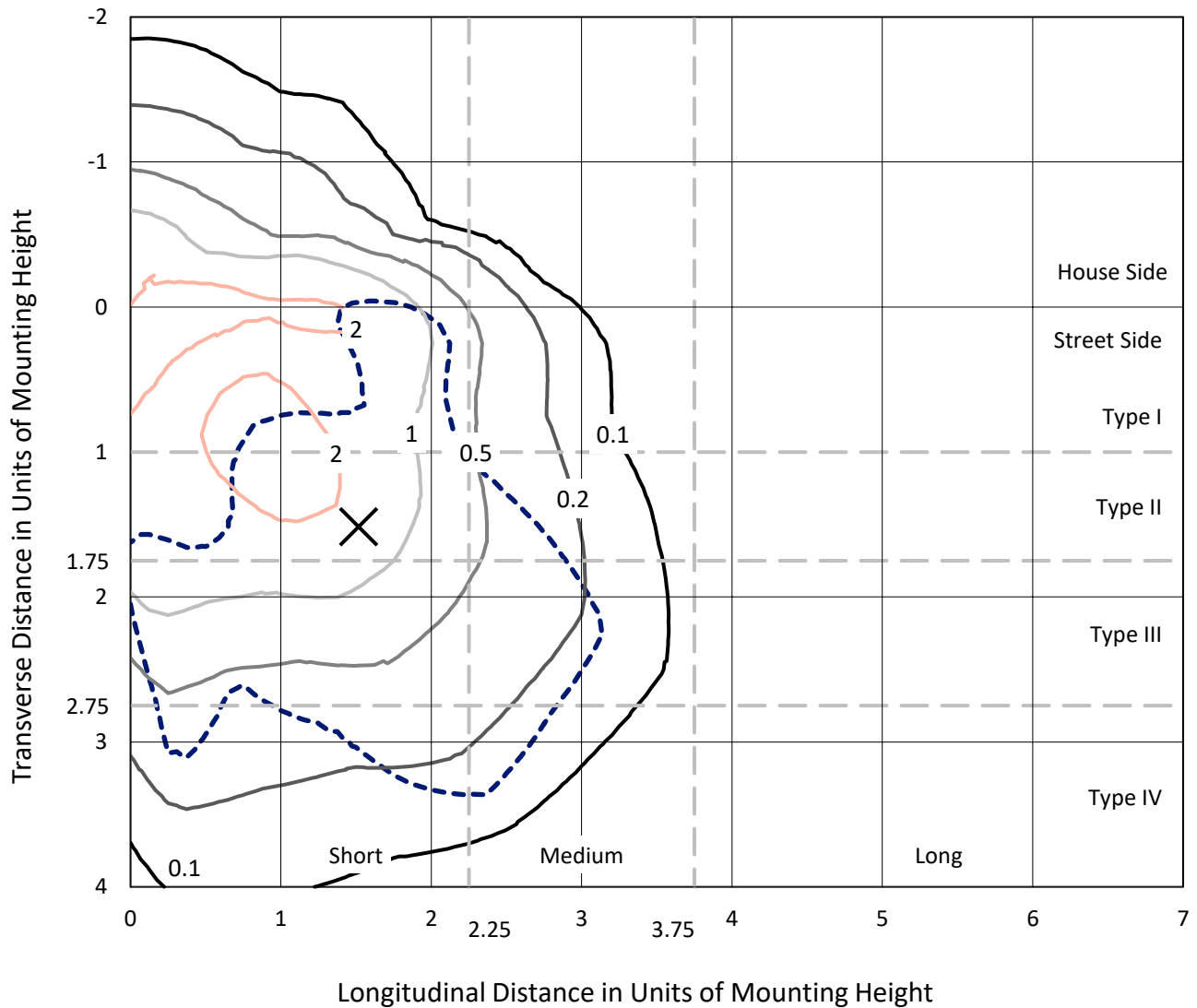
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947863
 CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

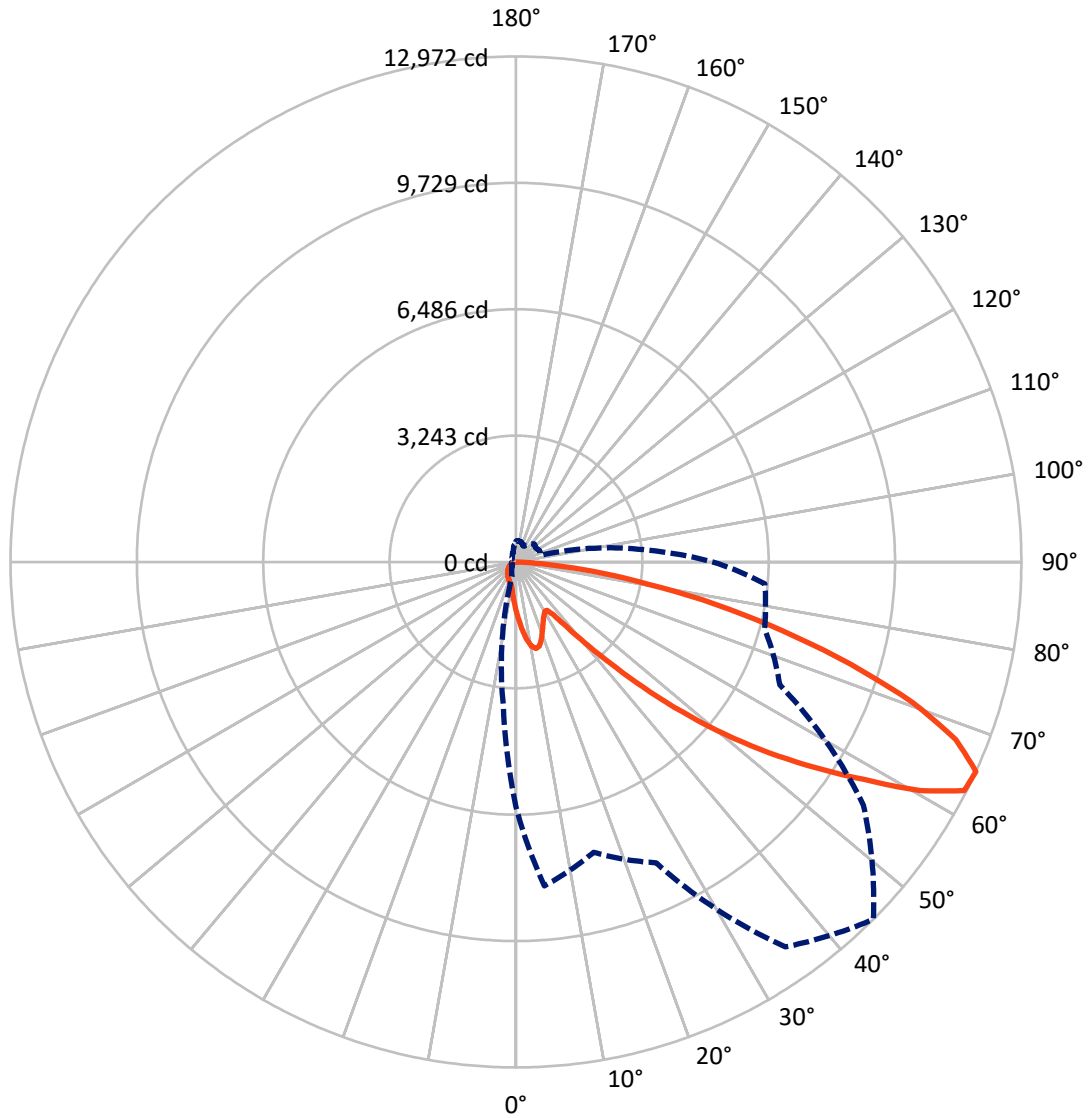
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P947863
CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P947863
 CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1834.6	0.0	1834.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	7395.4	0.0	7395.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	9230.0	0.0	9230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	1.4
10°-20°	377.2	4.1
20°-30°	555.7	6.0
30°-40°	713.9	7.7
40°-50°	1154.6	12.5
50°-60°	2024.7	21.9
60°-70°	2533.5	27.4
70°-80°	1480.4	16.0
80°-90°	264.1	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°	9230.0	100.0
0°-180°	9230.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947863

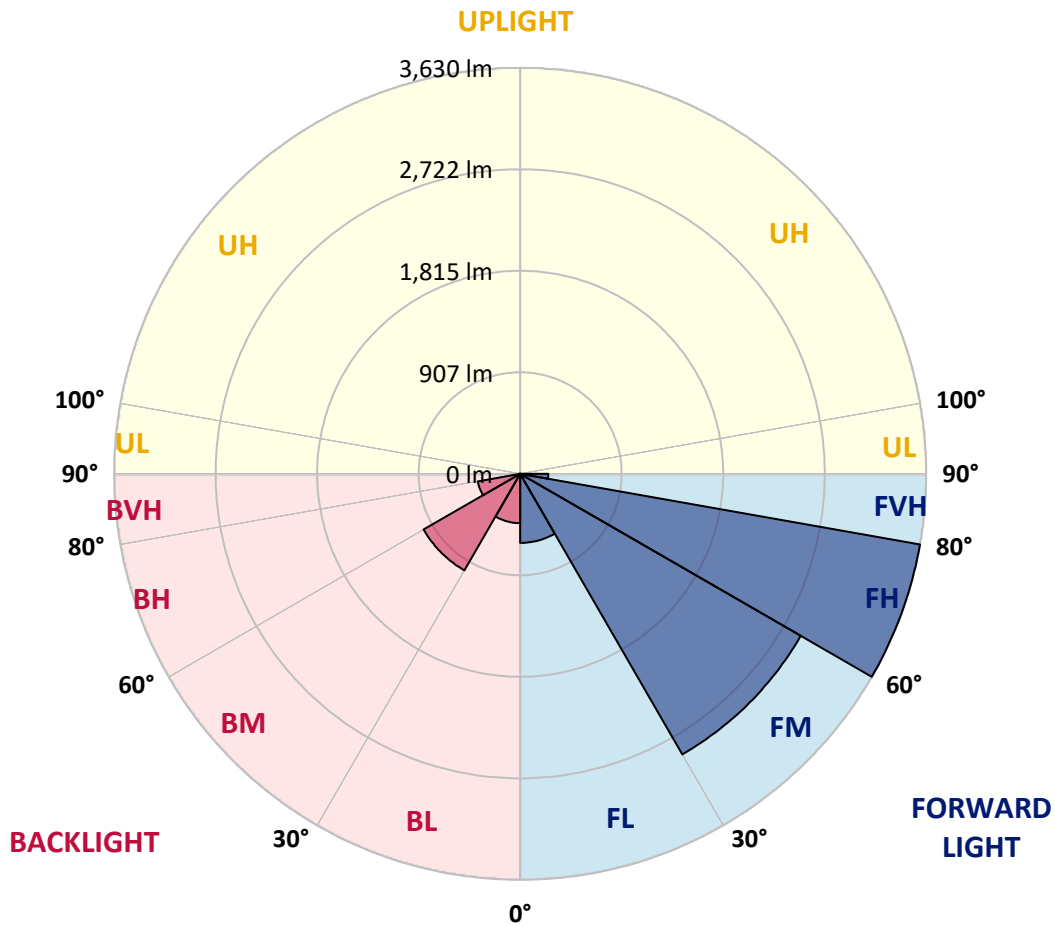
CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.6	6.7			
FM (30°-60°)	2896.5	31.4			
FH (60°-80°)	3629.5	39.3			G2/5000
FVH (80°-90°)	251.8	2.7			G3/500
BL (0°-30°)	441.1	4.8	B1/500		
BM (30°-60°)	996.7	10.8	B1/1000		
BH (60°-80°)	384.4	4.2	B1/500		G1/500
BVH (80°-90°)	12.4	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: P947863

CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
2.5°	1431.9	1442.7	1466.9	1479.6	1499.3	1500.6	1500.6	1483.4	1482.8	1447.8
5°	1600.4	1625.9	1683.1	1742.2	1754.9	1758.1	1751.8	1717.4	1692.0	1624.0
7.5°	1767.7	1816.6	1903.7	1982.6	2008.0	2008.0	1992.8	1936.8	1884.7	1786.1
10°	1906.3	1968.0	2086.2	2174.6	2203.9	2197.5	2166.3	2095.8	2023.9	1904.4
12.5°	1997.8	2067.2	2196.9	2268.1	2298.0	2281.4	2245.8	2177.2	2101.5	1975.6
15°	2043.6	2116.1	2228.7	2266.2	2257.9	2240.7	2236.3	2203.2	2146.0	2028.4
17.5°	2063.3	2130.7	2208.9	2185.4	2115.5	2102.1	2146.6	2188.6	2174.6	2074.1
20°	2081.8	2138.4	2161.9	2057.6	1935.5	1923.4	2008.7	2128.2	2189.2	2116.7
22.5°	2107.2	2142.2	2093.9	1922.8	1791.2	1763.2	1857.3	2037.3	2193.7	2170.8
25°	2142.2	2151.7	2018.8	1795.0	1662.7	1634.8	1722.5	1936.2	2186.1	2229.3
27.5°	2184.1	2164.4	1947.0	1688.2	1560.4	1534.3	1622.1	1838.9	2164.4	2287.8
30°	2238.8	2181.0	1875.8	1605.5	1487.3	1468.2	1552.7	1754.9	2137.7	2362.2
32.5°	2294.1	2188.0	1809.6	1557.2	1470.7	1477.7	1547.0	1709.8	2108.5	2433.4
35°	2353.9	2210.2	1777.2	1604.9	1608.7	1669.7	1698.4	1751.8	2104.0	2530.0
37.5°	2435.3	2259.8	1816.0	1842.1	1974.3	2100.9	2077.3	1957.1	2155.5	2674.4
40°	2552.3	2346.9	1985.1	2245.8	2517.3	2722.7	2633.1	2330.4	2313.2	2882.3
42.5°	2722.7	2485.5	2285.2	2739.2	3199.6	3537.9	3297.5	2811.7	2589.2	3179.3
45°	2974.5	2710.0	2648.3	3260.0	4040.8	4573.7	4073.9	3324.9	2975.8	3628.8
47.5°	3323.6	3040.0	2988.5	3808.7	5063.3	5752.5	4934.8	3800.5	3415.8	4241.8
50°	3787.1	3484.5	3310.9	4409.0	6184.3	6954.3	5795.1	4259.6	3920.0	4990.8
52.5°	4398.8	4104.4	3686.7	4980.6	7337.1	8130.6	6659.3	4662.7	4545.7	5860.0
55°	5233.1	5037.2	4200.4	5526.2	8489.2	9313.9	7489.7	5042.9	5372.3	6892.6
57.5°	6268.2	6408.1	4941.2	6158.8	9525.0	10533.5	8323.9	5574.5	6445.6	8047.3
60°	6935.9	8231.1	6359.8	7094.2	10702.0	11912.7	9467.2	6585.5	7573.6	8461.3
62.5°	6774.4	8811.0	8058.8	8288.3	11784.2	12915.4	10587.5	7601.0	7786.0	7851.5
65°	6279.0	8343.0	7712.2	8520.4	12058.3	12972.0	10887.0	7470.0	6604.6	6410.0
67.5°	5597.4	7787.9	6888.8	7904.9	11562.9	12181.0	10329.4	6607.8	5104.0	4810.2
70°	4861.7	7173.7	6348.3	7214.4	10618.7	10802.5	9381.3	5811.7	3754.1	3248.6
72.5°	4163.5	6534.0	5978.3	6506.7	9359.1	8978.8	8147.2	5107.8	2733.5	2343.1
75°	3449.5	5590.4	5451.1	5666.1	7702.7	7072.6	6769.3	4229.0	2145.4	1695.2
77.5°	2661.7	4368.3	4688.8	4537.4	5421.9	5253.4	5247.0	3178.0	1567.4	1131.2
80°	1821.7	3044.5	3663.1	3200.9	3518.8	3433.0	3951.8	2132.0	1136.9	681.0
82.5°	1070.8	1853.5	2549.8	1549.6	1945.7	1997.2	2353.3	1037.1	668.9	157.1
85°	434.3	731.9	997.0	606.6	938.5	791.6	893.4	291.2	186.3	3.8
87.5°	109.4	234.0	164.0	68.0	108.7	99.8	78.8	35.6	7.6	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: P947863
 CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1278.1	0°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
1444.0	2.5°	1419.2	1404.6	1368.4	1332.1	1302.9	1263.4	1237.4	1206.2	1176.3	1149.6
1609.3	5°	1569.3	1521.0	1454.8	1394.4	1332.7	1273.0	1213.8	1151.5	1094.3	1059.3
1749.2	7.5°	1691.4	1606.2	1518.4	1441.5	1367.1	1297.1	1218.9	1143.3	1053.6	1005.9
1856.0	10°	1782.3	1670.4	1555.3	1466.9	1391.9	1323.8	1257.7	1181.4	1073.3	1013.5
1920.9	12.5°	1842.1	1709.2	1574.4	1473.3	1389.3	1336.6	1307.3	1277.4	1170.0	1100.0
1968.6	15°	1883.4	1736.5	1587.7	1458.6	1355.6	1316.8	1346.1	1380.4	1311.8	1231.0
2018.2	17.5°	1928.5	1772.1	1593.4	1419.2	1290.1	1273.6	1349.3	1428.8	1425.6	1345.5
2065.2	20°	1976.2	1803.3	1589.6	1355.6	1210.7	1225.3	1321.9	1414.1	1452.9	1409.7
2119.3	22.5°	2025.2	1833.2	1575.0	1273.0	1136.3	1182.0	1278.7	1359.4	1405.2	1391.9
2185.4	25°	2086.9	1875.1	1553.4	1184.0	1074.6	1138.2	1228.5	1294.0	1325.7	1325.1
2256.6	27.5°	2160.6	1931.1	1541.9	1112.1	1030.7	1088.6	1168.7	1227.2	1249.4	1249.4
2345.0	30°	2246.5	1997.2	1529.2	1065.0	1005.3	1037.1	1099.4	1156.6	1178.9	1178.9
2441.7	32.5°	2341.8	2060.8	1498.7	1036.4	986.2	986.8	1026.3	1078.4	1105.1	1108.9
2562.5	35°	2456.3	2128.8	1431.9	1013.5	963.9	937.9	957.0	1000.2	1032.0	1040.3
2734.8	37.5°	2606.4	2212.1	1336.6	979.8	929.6	886.4	890.8	923.9	958.9	971.6
2972.6	40°	2807.9	2310.0	1237.4	931.5	881.3	829.8	827.9	852.0	886.4	900.4
3294.3	42.5°	3074.3	2427.7	1142.6	885.1	822.8	770.0	766.8	785.9	815.8	830.4
3719.1	45°	3415.2	2572.0	1061.2	848.9	765.6	713.4	712.2	728.0	754.1	769.4
4262.7	47.5°	3888.9	2716.4	1005.9	829.8	720.4	667.0	669.6	683.5	707.1	717.9
4966.6	50°	4506.3	2760.2	977.9	829.8	696.3	625.7	638.4	649.8	667.6	674.0
5810.4	52.5°	5098.9	2615.3	952.5	834.9	699.4	590.7	618.0	626.3	641.6	644.1
6592.5	55°	5389.5	2248.4	917.5	836.1	719.1	560.8	601.5	616.8	622.5	621.9
7046.5	57.5°	5289.6	1817.9	858.4	831.1	732.5	541.7	581.2	610.4	614.2	608.5
6960.0	60°	4939.3	1338.5	813.3	793.5	727.4	536.0	550.0	596.4	602.2	594.5
6293.6	62.5°	4351.8	929.0	778.3	710.9	705.2	534.1	501.1	565.9	579.9	569.1
5058.8	65°	3426.0	656.2	670.2	623.1	656.8	523.9	450.2	529.0	548.1	531.6
3670.1	67.5°	2318.3	473.7	543.0	564.6	578.6	501.1	413.3	487.1	512.5	490.9
2355.2	70°	1252.0	332.5	358.6	475.6	491.5	461.6	380.2	444.5	473.7	450.2
1674.2	72.5°	739.5	239.1	251.2	382.1	409.5	406.3	343.4	394.9	430.5	402.5
1155.3	75°	407.6	161.5	179.3	277.2	332.5	313.5	295.0	334.5	370.7	343.4
724.2	77.5°	182.5	96.6	124.6	181.9	261.3	214.9	228.3	260.7	294.4	265.8
403.1	80°	70.6	54.0	82.7	99.2	190.1	118.9	146.9	192.0	216.2	193.3
87.7	82.5°	8.9	24.2	35.6	38.8	110.6	62.9	85.2	120.8	118.9	103.0
0.0	85°	0.0	4.5	5.1	2.5	47.7	22.9	28.0	39.4	36.9	28.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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: P947863
 CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
1278.1	0°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
1144.5	2.5°	1113.4	1090.5	1079.0	1069.5	1078.4	1083.5	1083.5	1105.1	1117.8	1122.9
1037.1	5°	981.1	938.5	909.9	892.7	898.5	904.8	911.8	939.2	957.6	969.7
962.7	7.5°	876.8	812.0	771.9	750.9	754.1	758.6	764.3	791.0	809.4	825.3
948.7	10°	825.3	733.8	681.0	655.6	651.1	648.6	646.7	662.6	676.5	689.3
1005.9	12.5°	827.9	700.1	635.9	604.7	591.3	576.1	564.0	566.5	575.4	591.3
1108.3	15°	860.3	689.3	612.3	573.5	551.3	533.5	518.9	515.7	518.9	521.4
1225.3	17.5°	904.2	688.0	592.0	543.7	520.8	506.1	492.8	488.3	489.0	492.1
1302.9	20°	939.2	684.2	569.1	515.0	494.7	482.0	468.6	464.2	465.4	466.1
1310.5	22.5°	957.6	678.5	543.7	486.4	469.3	456.5	444.5	443.8	443.8	447.6
1269.2	25°	957.6	666.4	520.8	459.1	443.8	432.4	417.8	420.3	421.6	426.7
1204.9	27.5°	934.7	643.5	502.3	435.6	419.7	408.2	394.9	398.0	400.0	405.7
1141.4	30°	905.5	616.1	481.3	413.3	394.9	386.6	375.2	376.4	379.0	385.3
1082.2	32.5°	874.3	583.7	464.2	391.0	372.6	366.2	353.5	355.4	358.0	365.0
1023.7	35°	840.0	545.6	443.8	370.7	352.3	347.2	332.5	333.8	337.6	345.3
960.8	37.5°	803.7	514.4	423.5	351.0	331.9	326.8	311.6	312.8	317.3	326.2
894.6	40°	768.1	483.9	401.9	330.0	310.9	306.5	289.9	291.2	296.3	305.8
827.9	42.5°	729.3	460.4	373.9	308.4	288.0	283.6	268.3	270.2	276.0	285.5
766.2	45°	682.9	445.1	342.7	288.0	265.1	260.7	246.7	250.5	256.9	266.4
713.4	47.5°	635.2	438.7	316.7	266.4	241.6	237.8	226.4	232.7	239.7	247.3
668.3	50°	589.4	430.5	289.9	246.1	221.3	217.5	209.8	218.1	225.1	232.1
635.9	52.5°	537.3	412.7	265.8	228.3	204.1	202.8	199.0	206.7	213.0	219.4
607.9	55°	483.2	384.1	244.8	212.4	189.5	190.8	188.8	195.2	200.3	206.0
582.4	57.5°	436.2	347.8	228.3	195.2	176.8	180.6	178.0	181.2	184.4	191.4
551.9	60°	388.5	304.6	209.8	174.9	164.0	168.5	161.5	160.9	162.1	164.0
506.8	62.5°	324.3	259.4	186.9	157.1	150.1	152.0	138.6	128.4	128.4	130.3
443.8	65°	260.7	217.5	161.5	136.7	131.0	129.7	110.6	96.6	95.4	101.1
370.7	67.5°	214.3	180.6	136.1	113.8	110.0	111.3	97.3	83.3	82.0	88.4
302.0	70°	177.4	145.6	108.7	87.7	91.6	97.3	83.3	69.9	68.0	73.8
245.4	72.5°	141.2	113.8	83.3	64.9	75.7	82.7	68.0	55.3	54.0	59.1
189.5	75°	103.6	81.4	56.6	47.1	58.5	64.9	49.6	39.4	37.5	42.0
126.5	77.5°	64.2	45.8	35.6	28.0	40.1	43.2	26.1	22.9	22.3	25.4
76.9	80°	29.9	19.7	17.2	9.5	14.6	17.2	10.8	12.1	12.7	15.3
38.8	82.5°	8.3	3.2	0.6	0.0	0.0	5.1	2.5	5.1	6.4	9.5
3.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.2	5.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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: P947863
 CATALOG NUMBER: GALN-SB3A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
1278.1	0°	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1	1278.1
1158.5	2.5°	1185.2	1210.7	1251.4	1293.3	1334.7	1376.6	1417.3	1431.9
1025.0	5°	1075.2	1133.7	1214.5	1301.0	1390.0	1480.3	1562.9	1600.4
887.0	7.5°	952.5	1036.4	1157.9	1293.3	1435.1	1576.9	1707.3	1767.7
750.3	10°	821.5	927.7	1066.3	1249.4	1452.9	1648.8	1828.1	1906.3
630.1	12.5°	696.9	808.2	961.4	1180.8	1438.9	1690.1	1905.6	1997.8
545.6	15°	592.6	691.2	856.5	1099.4	1393.8	1692.6	1942.5	2043.6
498.5	17.5°	514.4	578.6	749.7	1009.1	1334.7	1669.1	1955.2	2063.3
473.1	20°	475.6	493.4	611.1	893.4	1279.3	1646.9	1968.0	2081.8
452.7	22.5°	452.7	457.2	499.8	743.9	1213.2	1639.9	1990.2	2107.2
434.3	25°	434.3	435.6	447.0	589.4	1112.1	1635.4	2024.5	2142.2
415.2	27.5°	415.8	415.8	422.2	475.0	974.8	1616.3	2069.1	2184.1
396.1	30°	397.4	397.4	401.9	420.3	813.9	1578.8	2122.5	2238.8
377.1	32.5°	378.3	378.3	382.1	395.5	649.8	1531.8	2171.4	2294.1
357.3	35°	359.3	358.0	363.1	377.1	516.9	1472.0	2220.4	2353.9
337.6	37.5°	338.9	338.3	343.4	359.3	446.4	1402.7	2257.3	2435.3
317.9	40°	317.3	317.3	323.0	340.2	426.0	1315.6	2315.8	2552.3
297.6	42.5°	297.6	296.3	302.7	323.6	410.8	1232.3	2420.7	2722.7
279.1	45°	278.5	276.0	281.7	307.8	384.1	1203.0	2616.5	2974.5
261.3	47.5°	260.7	254.3	259.4	288.7	359.9	1312.4	2937.0	3323.6
245.4	50°	246.1	234.0	238.4	269.6	341.5	1549.6	3352.8	3787.1
230.8	52.5°	230.8	214.9	217.5	246.1	324.9	1775.3	3803.7	4398.8
216.2	55°	214.9	197.1	198.4	222.5	301.4	1809.0	4243.7	5233.1
199.7	57.5°	197.1	180.6	180.6	200.9	284.2	1568.0	4581.9	6268.2
179.3	60°	177.4	166.6	163.4	183.8	299.5	1106.4	4621.4	6935.9
153.2	62.5°	155.8	150.1	145.6	167.2	310.9	655.6	4304.1	6774.4
120.8	65°	131.0	129.7	126.5	183.8	262.0	387.2	3694.9	6279.0
103.0	67.5°	110.0	108.1	108.1	192.7	199.0	243.5	2886.8	5597.4
87.7	70°	94.7	87.7	87.7	145.6	120.8	168.5	2015.6	4861.7
72.5	72.5°	79.5	71.9	66.8	116.4	90.3	123.4	1259.6	4163.5
55.3	75°	63.6	57.9	51.5	76.9	67.4	93.5	731.9	3449.5
35.0	77.5°	45.8	43.2	36.2	56.6	49.0	67.4	435.6	2661.7
21.6	80°	23.5	24.2	22.9	32.4	33.1	45.8	248.0	1821.7
14.0	82.5°	14.0	10.8	12.1	15.9	19.1	26.1	93.5	1070.8
10.2	85°	8.9	5.7	5.7	7.6	9.5	10.2	28.6	434.3
5.1	87.5°	4.5	1.9	2.5	3.8	3.2	2.5	1.3	109.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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