

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: P946078

Luminaire Tested: **GALN-SB1D-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946078
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-SB1D-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6981 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

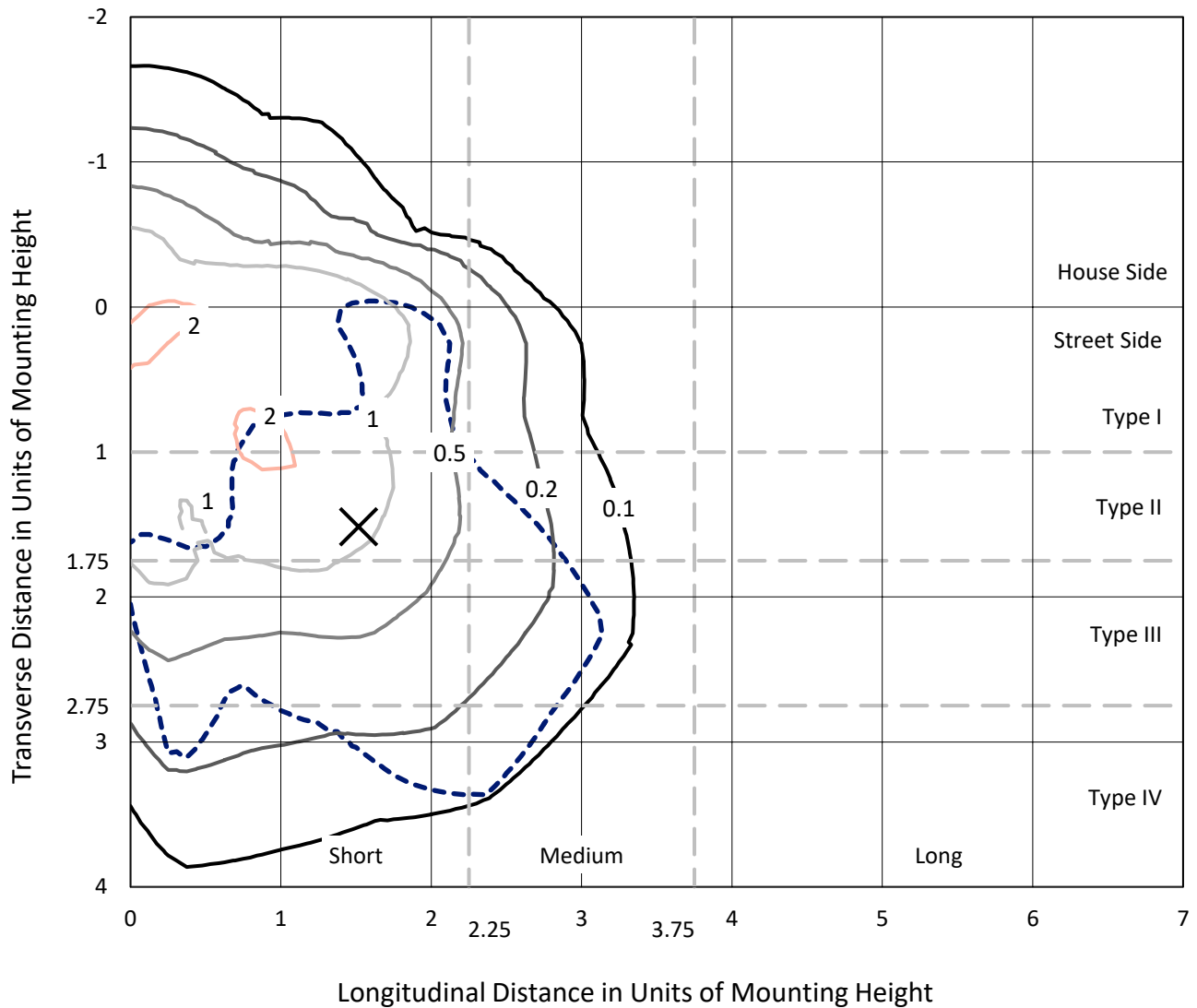
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946078
 CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

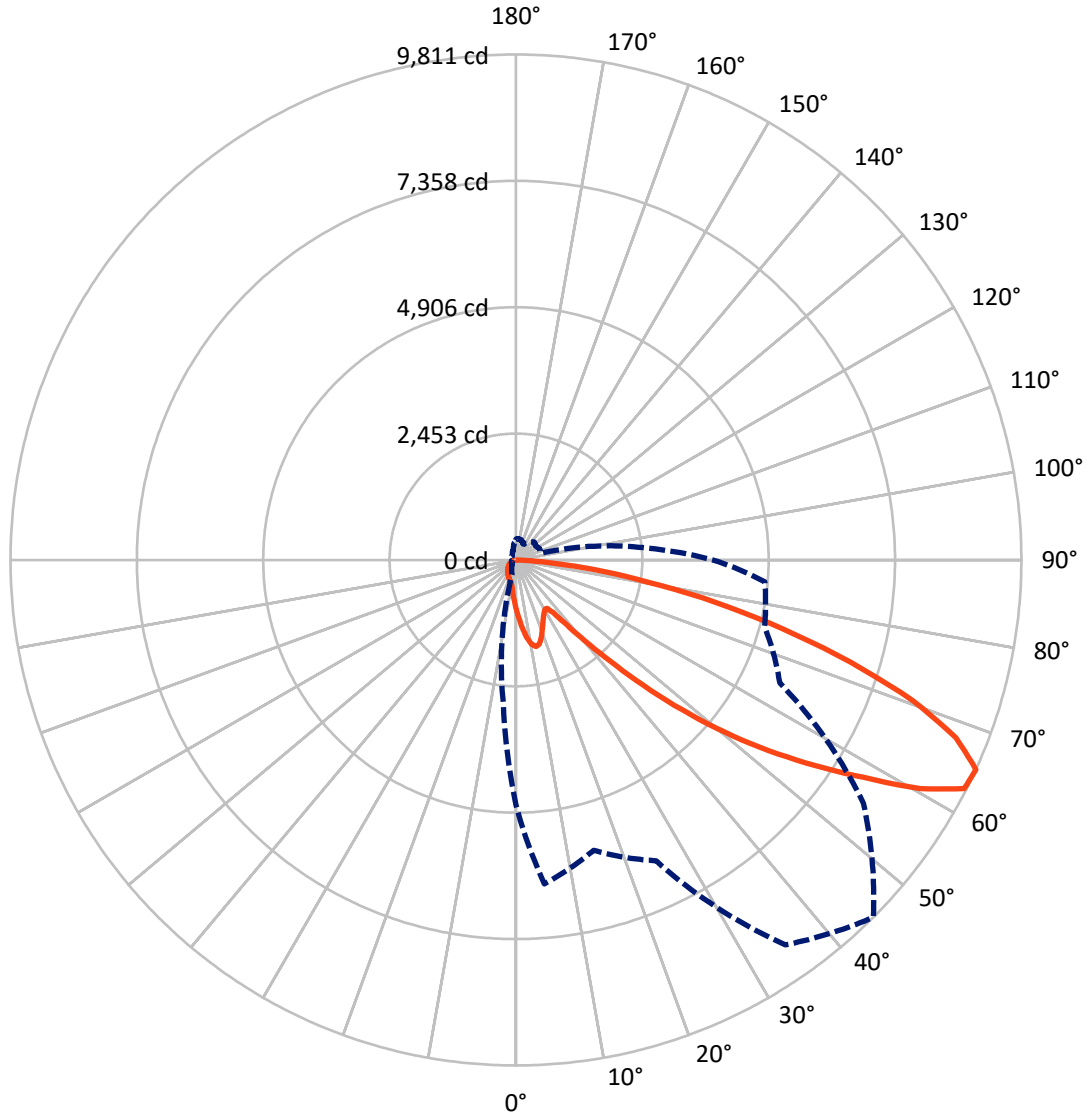
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P946078
CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946078
 CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.6	0.0	1387.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	5593.4	0.0	5593.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	6981.0	0.0	6981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.4
10°-20°	285.3	4.1
20°-30°	420.3	6.0
30°-40°	540.0	7.7
40°-50°	873.3	12.5
50°-60°	1531.4	21.9
60°-70°	1916.2	27.4
70°-80°	1119.7	16.0
80°-90°	199.8	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°	6981.0	100.0
0°-180°	6981.0	100.0

Coefficient of Utilization



REPORT NUMBER: P946078

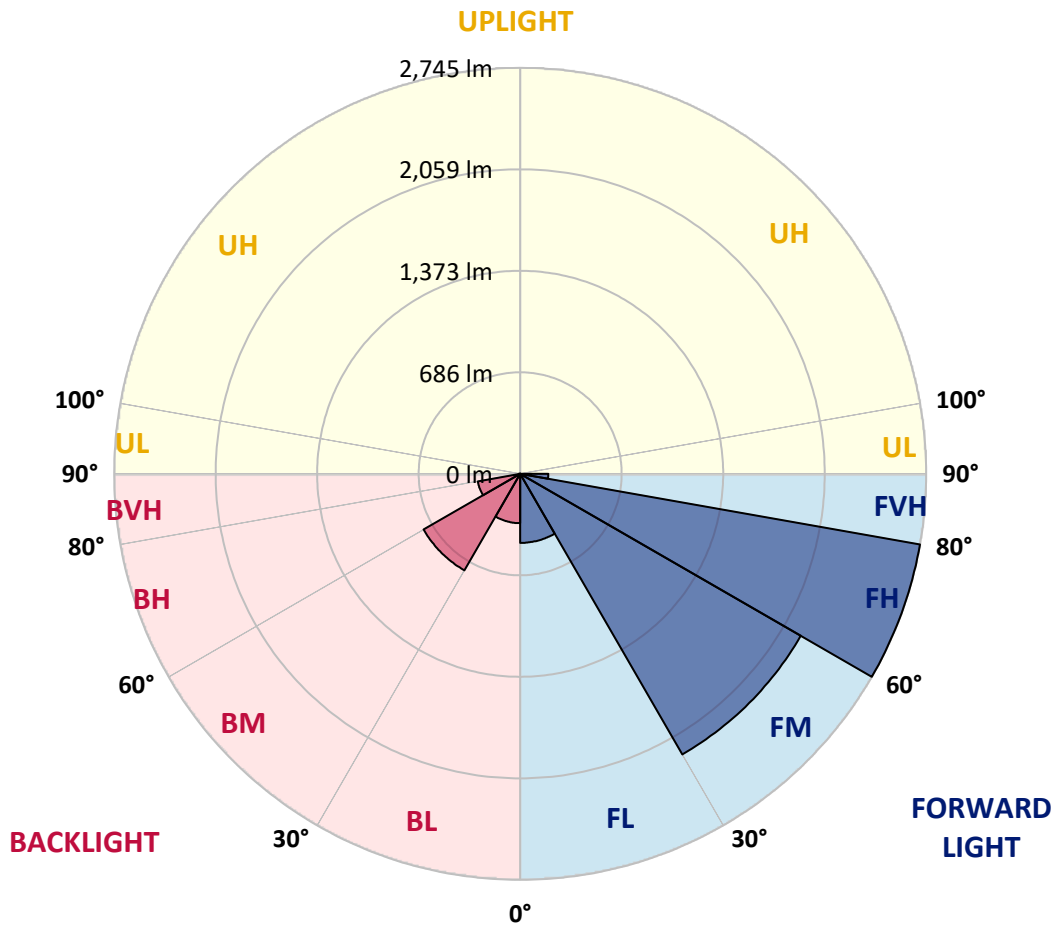
CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.1	6.7			
FM (30°-60°)	2190.7	31.4			
FH (60°-80°)	2745.1	39.3			G2/5000
FVH (80°-90°)	190.4	2.7			G2/225
BL (0°-30°)	333.6	4.8	B1/500		
BM (30°-60°)	753.9	10.8	B1/1000		
BH (60°-80°)	290.7	4.2	B1/500		G1/500
BVH (80°-90°)	9.4	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: P946078
 CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
2.5°	1083.0	1091.2	1109.5	1119.1	1134.0	1135.0	1135.0	1122.0	1121.5	1095.1
5°	1210.5	1229.7	1273.0	1317.7	1327.3	1329.7	1324.9	1299.0	1279.7	1228.3
7.5°	1337.0	1374.0	1439.9	1499.5	1518.7	1518.7	1507.2	1464.9	1425.4	1350.9
10°	1441.8	1488.4	1577.9	1644.7	1666.9	1662.1	1638.5	1585.1	1530.8	1440.3
12.5°	1511.0	1563.5	1661.6	1715.4	1738.0	1725.5	1698.6	1646.7	1589.4	1494.2
15°	1545.7	1600.5	1685.6	1714.0	1707.7	1694.8	1691.4	1666.4	1623.1	1534.1
17.5°	1560.6	1611.6	1670.7	1652.9	1600.0	1589.9	1623.6	1655.3	1644.7	1568.8
20°	1574.5	1617.3	1635.1	1556.3	1463.9	1454.8	1519.2	1609.6	1655.8	1601.0
22.5°	1593.8	1620.2	1583.7	1454.3	1354.7	1333.6	1404.8	1540.9	1659.2	1641.9
25°	1620.2	1627.4	1526.9	1357.6	1257.6	1236.4	1302.8	1464.4	1653.4	1686.1
27.5°	1652.0	1637.0	1472.6	1276.8	1180.2	1160.5	1226.8	1390.8	1637.0	1730.3
30°	1693.3	1649.5	1418.7	1214.3	1124.9	1110.4	1174.4	1327.3	1616.8	1786.6
32.5°	1735.2	1654.8	1368.7	1177.8	1112.4	1117.7	1170.1	1293.2	1594.7	1840.5
35°	1780.4	1671.7	1344.2	1213.8	1216.7	1262.9	1284.5	1324.9	1591.4	1913.6
37.5°	1841.9	1709.2	1373.5	1393.2	1493.3	1589.0	1571.2	1480.3	1630.3	2022.7
40°	1930.4	1775.1	1501.4	1698.6	1904.0	2059.3	1991.5	1762.6	1749.6	2180.0
42.5°	2059.3	1879.9	1728.4	2071.8	2420.0	2675.8	2494.0	2126.6	1958.3	2404.6
45°	2249.7	2049.7	2003.0	2465.7	3056.2	3459.2	3081.2	2514.7	2250.7	2744.6
47.5°	2513.8	2299.3	2260.3	2880.7	3829.5	4350.9	3732.4	2874.4	2583.5	3208.2
50°	2864.3	2635.4	2504.1	3334.7	4677.4	5259.8	4383.1	3221.7	2964.9	3774.7
52.5°	3327.0	3104.3	2788.4	3767.0	5549.3	6149.5	5036.7	3526.6	3438.1	4432.1
55°	3958.0	3809.8	3176.9	4179.7	6420.7	7044.5	5664.7	3814.2	4063.3	5213.2
57.5°	4740.9	4846.7	3737.2	4658.2	7204.2	7966.9	6295.7	4216.2	4875.1	6086.5
60°	5245.9	6225.5	4810.1	5365.6	8094.3	9010.0	7160.4	4980.9	5728.2	6399.6
62.5°	5123.7	6664.1	6095.2	6268.8	8912.9	9768.4	8007.8	5748.9	5888.8	5938.4
65°	4749.1	6310.1	5833.1	6444.3	9120.1	9811.2	8234.3	5649.8	4995.3	4848.1
67.5°	4233.5	5890.3	5210.3	5978.8	8745.5	9212.9	7812.5	4997.7	3860.3	3638.1
70°	3677.1	5425.7	4801.5	5456.5	8031.3	8170.3	7095.5	4395.6	2839.3	2457.0
72.5°	3149.1	4941.9	4521.6	4921.2	7078.6	6791.0	6162.0	3863.2	2067.5	1772.2
75°	2609.0	4228.2	4122.9	4285.5	5825.8	5349.3	5119.9	3198.6	1622.6	1282.1
77.5°	2013.1	3303.9	3546.3	3431.8	4100.8	3973.3	3968.5	2403.6	1185.5	855.6
80°	1377.8	2302.6	2770.6	2420.9	2661.4	2596.5	2988.9	1612.5	859.9	515.1
82.5°	809.9	1401.9	1928.5	1172.0	1471.6	1510.6	1779.9	784.4	505.9	118.8
85°	328.5	553.5	754.1	458.8	709.8	598.7	675.7	220.3	140.9	2.9
87.5°	82.7	177.0	124.1	51.5	82.2	75.5	59.6	26.9	5.8	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: P946078
 CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
966.6	0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
1092.2	2.5°	1073.4	1062.3	1034.9	1007.5	985.4	955.6	935.9	912.3	889.7	869.5
1217.2	5°	1186.9	1150.4	1100.3	1054.7	1008.0	962.8	918.1	870.9	827.7	801.2
1323.0	7.5°	1279.2	1214.8	1148.4	1090.2	1034.0	981.1	921.9	864.7	796.9	760.8
1403.8	10°	1348.0	1263.4	1176.3	1109.5	1052.7	1001.3	951.3	893.5	811.8	766.6
1452.9	12.5°	1393.2	1292.7	1190.8	1114.3	1050.8	1010.9	988.8	966.2	884.9	832.0
1488.9	15°	1424.5	1313.4	1200.9	1103.2	1025.3	996.0	1018.1	1044.1	992.1	931.1
1526.4	17.5°	1458.6	1340.3	1205.2	1073.4	975.8	963.3	1020.5	1080.6	1078.2	1017.6
1562.0	20°	1494.7	1363.9	1202.3	1025.3	915.7	926.7	999.8	1069.6	1098.9	1066.2
1602.9	22.5°	1531.7	1386.5	1191.2	962.8	859.4	894.0	967.1	1028.2	1062.8	1052.7
1652.9	25°	1578.4	1418.2	1174.9	895.5	812.8	860.8	929.1	978.7	1002.7	1002.2
1706.8	27.5°	1634.2	1460.5	1166.2	841.1	779.6	823.3	883.9	928.2	945.0	945.0
1773.6	30°	1699.1	1510.6	1156.6	805.5	760.3	784.4	831.5	874.8	891.6	891.6
1846.7	32.5°	1771.2	1558.7	1133.5	783.9	745.9	746.4	776.2	815.6	835.8	838.7
1938.1	35°	1857.8	1610.1	1083.0	766.6	729.1	709.4	723.8	756.5	780.5	786.8
2068.4	37.5°	1971.3	1673.1	1010.9	741.1	703.1	670.4	673.8	698.8	725.2	734.8
2248.3	40°	2123.7	1747.2	935.9	704.5	666.6	627.6	626.2	644.4	670.4	681.0
2491.6	42.5°	2325.2	1836.1	864.2	669.4	622.3	582.4	580.0	594.4	617.0	628.1
2812.9	45°	2583.0	1945.3	802.7	642.0	579.0	539.6	538.6	550.7	570.4	581.9
3224.1	47.5°	2941.3	2054.5	760.8	627.6	544.9	504.5	506.4	517.0	534.8	543.0
3756.5	50°	3408.3	2087.7	739.7	627.6	526.6	473.2	482.8	491.5	505.0	509.8
4394.6	52.5°	3856.5	1978.0	720.4	631.4	529.0	446.8	467.5	473.7	485.2	487.2
4986.2	55°	4076.3	1700.5	694.0	632.4	543.9	424.2	454.9	466.5	470.8	470.3
5329.5	57.5°	4000.8	1374.9	649.2	628.6	554.0	409.7	439.6	461.7	464.6	460.2
5264.1	60°	3735.8	1012.3	615.1	600.2	550.2	405.4	416.0	451.1	455.4	449.7
4760.1	62.5°	3291.4	702.6	588.6	537.7	533.3	404.0	379.0	428.0	438.6	430.4
3826.2	65°	2591.2	496.3	506.9	471.3	496.8	396.3	340.5	400.1	414.6	402.0
2775.9	67.5°	1753.4	358.3	410.7	427.1	437.6	379.0	312.6	368.4	387.6	371.3
1781.3	70°	946.9	251.5	271.2	359.7	371.7	349.1	287.6	336.2	358.3	340.5
1266.3	72.5°	559.3	180.8	190.0	289.0	309.7	307.3	259.7	298.7	325.6	304.4
873.8	75°	308.3	122.2	135.6	209.7	251.5	237.1	223.1	253.0	280.4	259.7
547.8	77.5°	138.0	73.1	94.3	137.5	197.7	162.6	172.6	197.2	222.7	201.0
304.9	80°	53.4	40.9	62.5	75.0	143.8	89.9	111.1	145.2	163.5	146.2
66.4	82.5°	6.7	18.3	26.9	29.3	83.7	47.6	64.4	91.4	89.9	77.9
0.0	85°	0.0	3.4	3.8	1.9	36.1	17.3	21.2	29.8	27.9	21.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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: P946078
 CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
966.6	0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
865.7	2.5°	842.1	824.8	816.1	808.9	815.6	819.5	819.5	835.8	845.5	849.3
784.4	5°	742.1	709.8	688.2	675.2	679.5	684.3	689.6	710.3	724.3	733.4
728.1	7.5°	663.2	614.1	583.8	568.0	570.4	573.7	578.1	598.3	612.2	624.2
717.5	10°	624.2	555.0	515.1	495.8	492.5	490.5	489.1	501.1	511.7	521.3
760.8	12.5°	626.2	529.5	480.9	457.4	447.3	435.7	426.6	428.5	435.2	447.3
838.2	15°	650.7	521.3	463.1	433.8	417.0	403.5	392.4	390.0	392.4	394.4
926.7	17.5°	683.9	520.4	447.7	411.2	393.9	382.8	372.7	369.3	369.8	372.2
985.4	20°	710.3	517.5	430.4	389.5	374.2	364.5	354.4	351.1	352.0	352.5
991.2	22.5°	724.3	513.1	411.2	367.9	354.9	345.3	336.2	335.7	335.7	338.6
959.9	25°	724.3	504.0	393.9	347.2	335.7	327.0	316.0	317.9	318.8	322.7
911.3	27.5°	706.9	486.7	379.9	329.4	317.4	308.7	298.7	301.1	302.5	306.8
863.2	30°	684.8	466.0	364.1	312.6	298.7	292.4	283.7	284.7	286.6	291.4
818.5	32.5°	661.3	441.5	351.1	295.8	281.8	277.0	267.4	268.8	270.8	276.0
774.3	35°	635.3	412.6	335.7	280.4	266.4	262.6	251.5	252.5	255.4	261.1
726.7	37.5°	607.9	389.1	320.3	265.5	251.0	247.2	235.6	236.6	240.0	246.7
676.7	40°	580.9	366.0	303.9	249.6	235.2	231.8	219.3	220.3	224.1	231.3
626.2	42.5°	551.6	348.2	282.8	233.2	217.9	214.5	202.9	204.4	208.7	215.9
579.5	45°	516.5	336.6	259.2	217.9	200.5	197.2	186.6	189.5	194.3	201.5
539.6	47.5°	480.4	331.8	239.5	201.5	182.7	179.9	171.2	176.0	181.3	187.1
505.4	50°	445.8	325.6	219.3	186.1	167.4	164.5	158.7	165.0	170.2	175.5
480.9	52.5°	406.4	312.1	201.0	172.6	154.4	153.4	150.5	156.3	161.1	165.9
459.8	55°	365.5	290.5	185.2	160.6	143.3	144.3	142.8	147.6	151.5	155.8
440.5	57.5°	329.9	263.1	172.6	147.6	133.7	136.6	134.7	137.1	139.5	144.8
417.4	60°	293.8	230.4	158.7	132.3	124.1	127.4	122.2	121.7	122.6	124.1
383.3	62.5°	245.3	196.2	141.4	118.8	113.5	114.9	104.8	97.1	97.1	98.6
335.7	65°	197.2	164.5	122.2	103.4	99.1	98.1	83.7	73.1	72.1	76.5
280.4	67.5°	162.1	136.6	102.9	86.1	83.2	84.2	73.6	63.0	62.0	66.8
228.4	70°	134.2	110.1	82.2	66.4	69.3	73.6	63.0	52.9	51.5	55.8
185.6	72.5°	106.8	86.1	63.0	49.1	57.2	62.5	51.5	41.8	40.9	44.7
143.3	75°	78.4	61.6	42.8	35.6	44.2	49.1	37.5	29.8	28.4	31.7
95.7	77.5°	48.6	34.6	26.9	21.2	30.3	32.7	19.7	17.3	16.8	19.2
58.2	80°	22.6	14.9	13.0	7.2	11.1	13.0	8.2	9.1	9.6	11.5
29.3	82.5°	6.3	2.4	0.5	0.0	0.0	3.8	1.9	3.8	4.8	7.2
2.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.4	4.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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: P946078
 CATALOG NUMBER: GALN-SB1D-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
966.6	0°	966.6	966.6	966.6	966.6	966.6	966.6	966.6	966.6
876.2	2.5°	896.4	915.7	946.4	978.2	1009.4	1041.2	1072.0	1083.0
775.2	5°	813.2	857.5	918.6	984.0	1051.3	1119.6	1182.1	1210.5
670.9	7.5°	720.4	783.9	875.8	978.2	1085.4	1192.7	1291.3	1337.0
567.5	10°	621.3	701.7	806.5	945.0	1098.9	1247.0	1382.6	1441.8
476.6	12.5°	527.1	611.2	727.1	893.1	1088.3	1278.3	1441.3	1511.0
412.6	15°	448.2	522.8	647.8	831.5	1054.2	1280.2	1469.2	1545.7
377.0	17.5°	389.1	437.6	567.0	763.2	1009.4	1262.4	1478.8	1560.6
357.8	20°	359.7	373.2	462.2	675.7	967.6	1245.6	1488.4	1574.5
342.4	22.5°	342.4	345.8	378.0	562.7	917.6	1240.3	1505.3	1593.8
328.5	25°	328.5	329.4	338.1	445.8	841.1	1236.9	1531.2	1620.2
314.0	27.5°	314.5	314.5	319.3	359.2	737.2	1222.5	1564.9	1652.0
299.6	30°	300.6	300.6	303.9	317.9	615.6	1194.1	1605.3	1693.3
285.2	32.5°	286.1	286.1	289.0	299.1	491.5	1158.5	1642.3	1735.2
270.3	35°	271.7	270.8	274.6	285.2	391.0	1113.3	1679.4	1780.4
255.4	37.5°	256.3	255.8	259.7	271.7	337.6	1060.9	1707.3	1841.9
240.5	40°	240.0	240.0	244.3	257.3	322.2	995.0	1751.5	1930.4
225.1	42.5°	225.1	224.1	228.9	244.8	310.7	932.0	1830.9	2059.3
211.1	45°	210.6	208.7	213.0	232.8	290.5	909.9	1979.0	2249.7
197.7	47.5°	197.2	192.4	196.2	218.3	272.2	922.6	2221.4	2513.8
185.6	50°	186.1	177.0	180.3	203.9	258.3	1172.0	2535.9	2864.3
174.6	52.5°	174.6	162.6	164.5	186.1	245.7	1342.7	2876.9	3327.0
163.5	55°	162.6	149.1	150.0	168.3	228.0	1368.2	3209.6	3958.0
151.0	57.5°	149.1	136.6	136.6	152.0	215.0	1185.9	3465.5	4740.9
135.6	60°	134.2	126.0	123.6	139.0	226.5	836.8	3495.3	5245.9
115.9	62.5°	117.8	113.5	110.1	126.5	235.2	495.8	3255.3	5123.7
91.4	65°	99.1	98.1	95.7	139.0	198.1	292.9	2794.6	4749.1
77.9	67.5°	83.2	81.8	81.8	145.7	150.5	184.2	2183.4	4233.5
66.4	70°	71.7	66.4	66.4	110.1	91.4	127.4	1524.5	3677.1
54.8	72.5°	60.1	54.3	50.5	88.0	68.3	93.3	952.7	3149.1
41.8	75°	48.1	43.8	39.0	58.2	51.0	70.7	553.5	2609.0
26.5	77.5°	34.6	32.7	27.4	42.8	37.0	51.0	329.4	2013.1
16.4	80°	17.8	18.3	17.3	24.5	25.0	34.6	187.6	1377.8
10.6	82.5°	10.6	8.2	9.1	12.0	14.4	19.7	70.7	809.9
7.7	85°	6.7	4.3	4.3	5.8	7.2	7.7	21.6	328.5
3.8	87.5°	3.4	1.4	1.9	2.9	2.4	1.9	1.0	82.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)