

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: P526442

Luminaire Tested: **GALN-SA1B-827-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3152 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

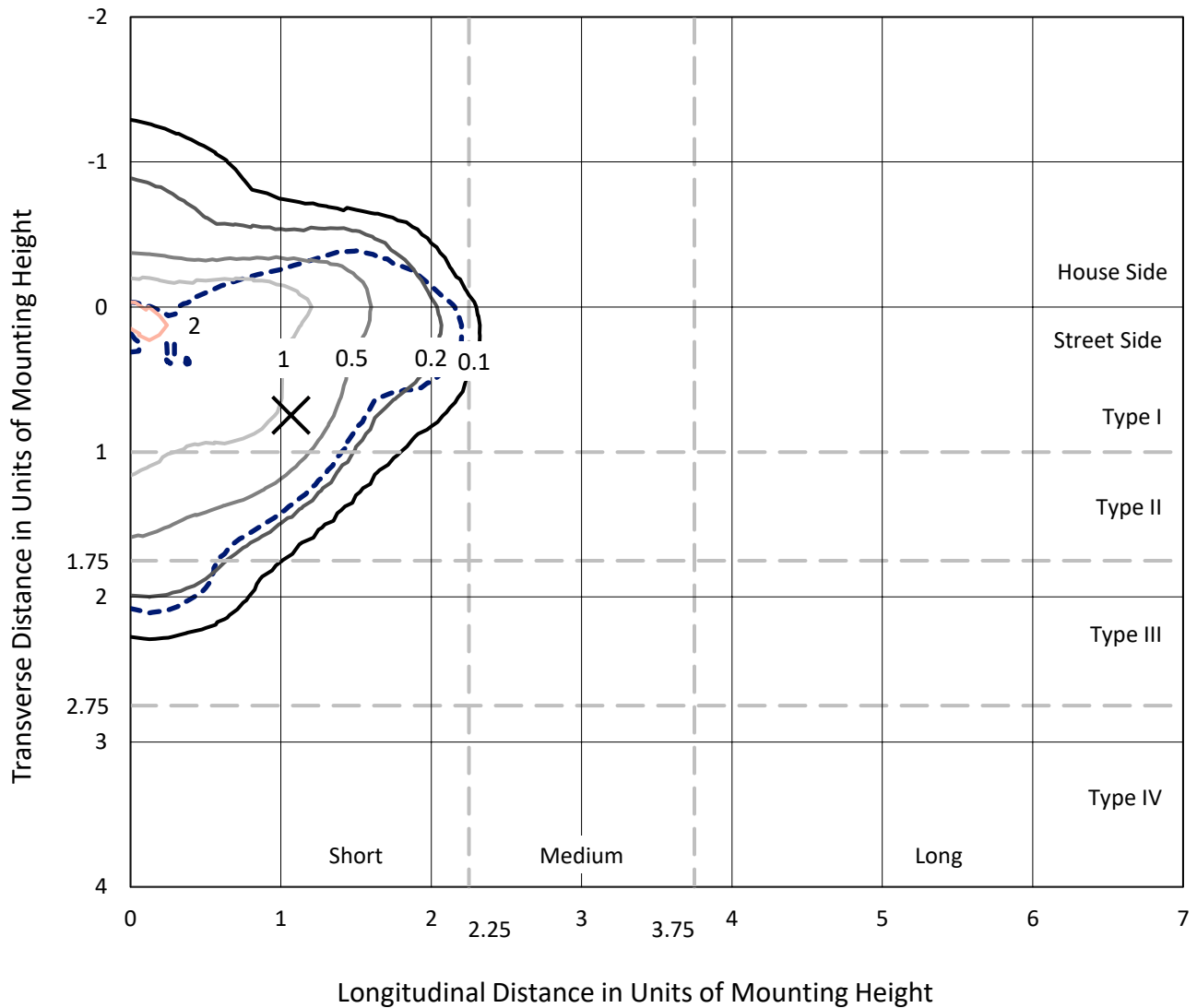
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526442
 CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

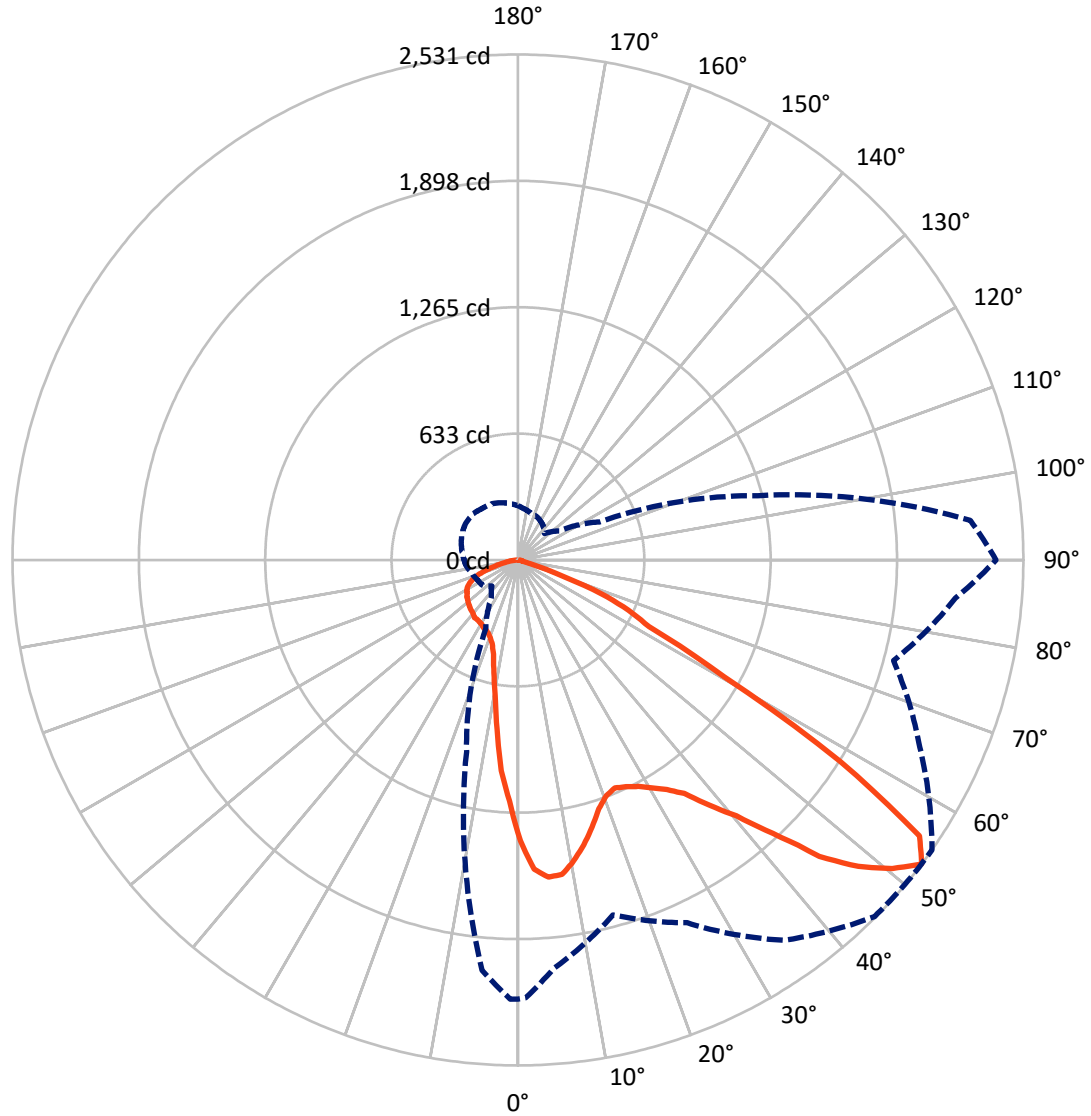
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P526442
CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P526442
 CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

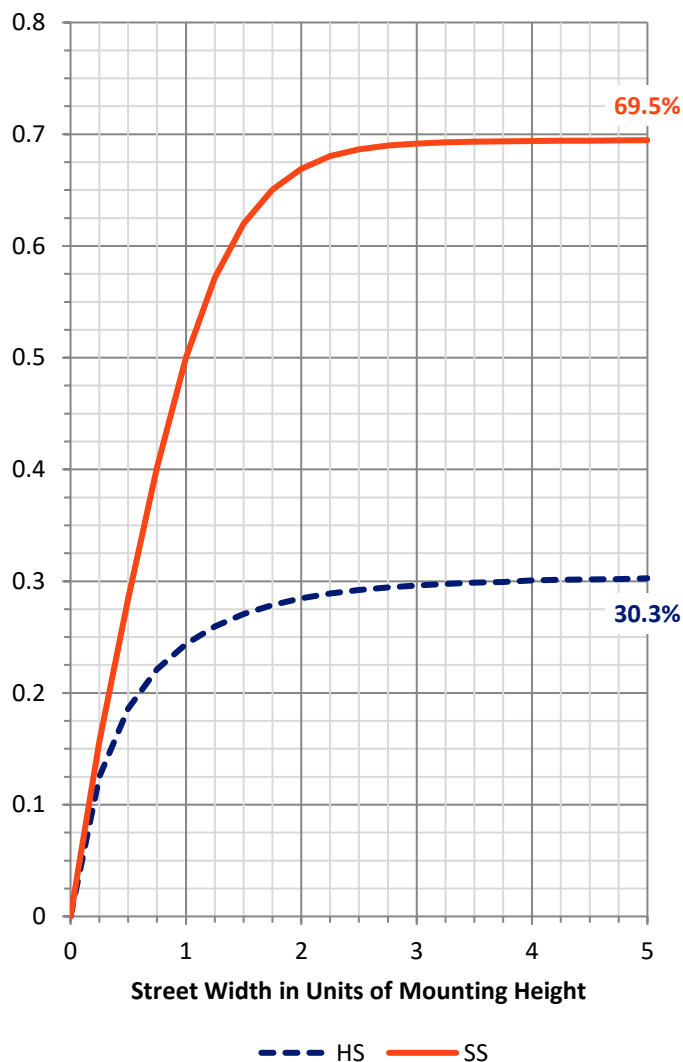
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	961.5	0.0	961.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	2190.5	0.0	2190.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	3152.0	0.0	3152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.4
10°-20°	231.6	7.3
20°-30°	351.2	11.1
30°-40°	507.4	16.1
40°-50°	678.1	21.5
50°-60°	756.9	24.0
60°-70°	415.2	13.2
70°-80°	89.8	2.8
80°-90°	14.5	0.5
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°	3152.0	100.0
0°-180°	3152.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526442

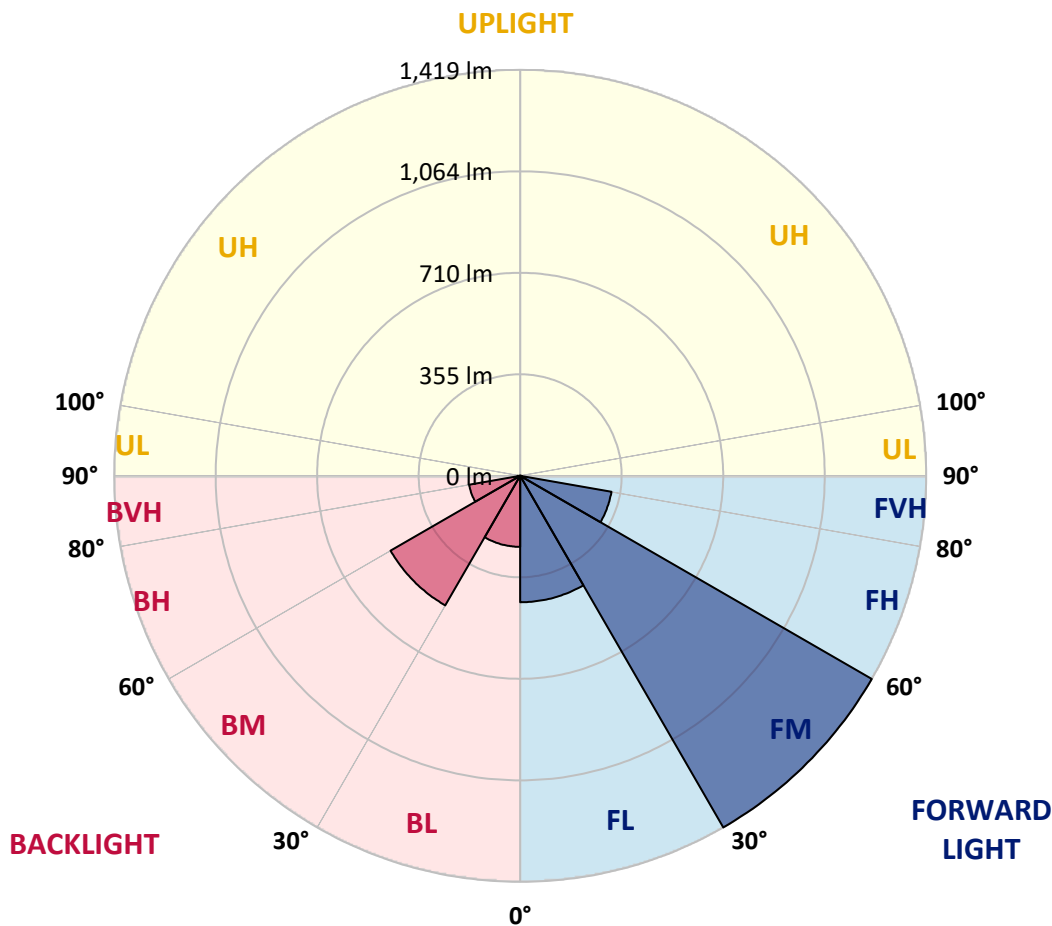
CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.0	14.0			
FM (30°-60°)	1419.2	45.0			
FH (60°-80°)	323.9	10.3			G0/660
FVH (80°-90°)	5.4	0.2			G0/10
BL (0°-30°)	248.3	7.9	B1/500		
BM (30°-60°)	523.2	16.6	B1/1000		
BH (60°-80°)	181.0	5.7	B1/500		G1/500
BVH (80°-90°)	9.1	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P526442

CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1475.5	1467.2	1474.6	1509.6	1529.8	1543.6	1552.4	1551.0	1517.9	1485.7	1485.7
5°	1432.3	1421.7	1436.9	1516.0	1595.7	1602.6	1614.1	1595.2	1546.4	1487.5	1413.9
7.5°	1307.1	1314.9	1340.2	1444.2	1547.8	1599.8	1613.6	1589.7	1510.5	1400.5	1292.4
10°	1198.9	1217.3	1275.8	1388.1	1483.4	1551.0	1566.2	1532.6	1470.0	1335.2	1238.5
12.5°	1161.6	1150.1	1215.0	1327.3	1418.5	1454.8	1461.7	1464.0	1421.7	1302.0	1184.2
15°	1157.0	1164.4	1215.0	1300.2	1356.3	1358.2	1369.7	1387.6	1393.1	1324.6	1209.5
17.5°	1223.3	1214.6	1266.6	1334.2	1307.5	1280.9	1283.6	1309.4	1354.9	1343.9	1289.1
20°	1321.4	1341.1	1382.1	1375.2	1303.4	1235.7	1236.2	1260.6	1350.3	1424.0	1400.1
22.5°	1484.3	1503.6	1534.0	1450.7	1303.4	1222.4	1206.8	1239.9	1379.8	1519.3	1525.2
25°	1632.9	1668.4	1676.7	1578.6	1368.8	1234.8	1224.7	1257.4	1409.3	1612.2	1668.8
27.5°	1768.2	1781.1	1817.5	1661.0	1405.1	1243.1	1242.2	1284.1	1446.5	1658.7	1797.2
30°	1875.0	1873.6	1894.4	1713.0	1463.1	1289.6	1245.0	1324.1	1495.3	1735.6	1916.0
32.5°	1947.7	1963.4	2007.1	1785.3	1487.5	1333.8	1298.8	1371.1	1554.7	1771.9	1999.7
35°	2075.7	2102.8	2047.6	1825.3	1564.8	1377.5	1336.5	1435.0	1584.1	1811.5	2102.4
37.5°	2196.3	2175.6	2119.4	1846.9	1615.0	1458.5	1420.3	1558.8	1675.7	1897.6	2170.5
40°	2273.6	2273.1	2173.3	1864.4	1650.4	1582.3	1580.0	1684.5	1788.0	1951.9	2246.9
42.5°	2307.2	2339.4	2195.3	1862.6	1725.0	1732.3	1778.8	1872.3	1867.7	1962.9	2245.1
44°	2353.2	2372.5	2233.5	1866.7	1774.7	1833.6	1943.1	2002.5	1937.2	1956.9	2242.8
45°	2351.4	2352.8	2179.2	1872.3	1817.0	1918.3	2016.3	2116.6	1998.4	1944.1	2273.1
47.5°	2297.5	2281.9	2133.2	1831.3	1949.1	2142.0	2232.6	2293.4	2073.8	1916.4	2235.4
50°	2191.2	2173.3	2021.4	1813.8	1976.7	2281.0	2406.1	2428.2	2142.4	1889.3	2198.1
52.5°	2198.6	2193.5	2053.1	1840.0	2004.3	2324.7	2525.3	2530.9	2220.2	1946.4	2198.6
55°	2330.2	2312.7	2144.3	1872.7	1984.1	2273.6	2449.4	2439.7	2194.0	1911.8	2239.1
57.5°	2132.3	2143.8	2018.2	1743.4	1736.5	1848.3	1925.6	1901.7	1830.8	1725.4	2083.1
60°	1720.4	1753.1	1765.0	1458.0	1310.3	1252.8	1229.8	1187.4	1199.4	1417.5	1829.9
62.5°	1475.5	1473.7	1548.7	1321.8	858.3	738.2	727.2	736.8	874.9	1395.5	1792.2
65°	1169.9	1201.2	1224.2	1120.2	679.3	548.1	547.7	608.9	757.1	1166.3	1447.0
67.5°	742.8	783.8	812.3	716.6	454.3	390.3	379.7	453.3	524.7	764.9	871.2
70°	418.8	438.1	451.0	413.3	289.0	202.5	190.5	208.0	317.1	495.2	516.4
72.5°	161.5	170.3	187.8	189.2	109.1	65.4	52.9	63.5	133.5	196.1	186.9
75°	24.9	26.7	37.7	45.1	31.3	23.9	25.3	26.2	37.3	50.6	42.3
77.5°	12.0	12.0	11.5	13.3	15.6	17.0	18.4	20.3	22.1	24.4	23.5
80°	7.8	7.8	7.8	9.2	11.5	13.8	15.6	16.6	17.5	19.3	18.4
82.5°	5.1	5.1	5.1	6.9	9.2	11.5	12.4	14.7	16.6	19.3	17.9
85°	2.8	2.8	2.8	4.6	6.9	9.7	9.2	7.4	4.1	0.5	0.9
87.5°	0.9	0.9	0.9	0.9	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	0.0



REPORT NUMBER: P526442

CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1447.0	1425.8	1424.0	1380.7	1342.1	1323.2	1308.0	1265.7	1274.9	1250.5	1250.0
5°	1377.0	1333.8	1263.8	1206.3	1148.8	1137.3	1087.1	1043.4	1044.7	1013.5	1019.0
7.5°	1251.4	1221.5	1136.3	1046.1	969.7	915.4	868.0	839.5	803.1	790.7	784.3
10°	1171.8	1135.0	1039.2	926.0	840.4	811.4	765.8	740.5	703.2	684.8	672.0
12.5°	1136.8	1082.9	963.3	848.2	791.2	761.2	722.6	676.6	632.4	615.3	591.9
15°	1140.5	1076.0	941.2	816.9	748.4	690.4	655.8	604.8	559.7	529.7	512.7
17.5°	1196.2	1117.9	951.3	793.0	694.5	621.8	554.1	498.9	463.0	440.5	434.9
20°	1327.8	1221.5	968.3	754.3	640.7	550.0	466.7	409.2	381.5	381.1	381.5
22.5°	1437.3	1331.9	1002.9	731.3	586.8	457.9	375.1	356.7	351.2	362.7	364.1
25°	1585.1	1456.2	1062.2	719.4	537.1	390.3	339.2	332.3	331.8	346.6	347.0
27.5°	1736.5	1564.8	1097.7	684.4	486.5	355.3	317.6	316.2	323.5	339.2	337.8
30°	1839.6	1655.9	1161.6	642.5	426.6	324.5	308.8	310.7	320.8	332.8	334.6
32.5°	1959.7	1745.7	1178.2	619.5	389.8	298.7	287.7	291.8	304.7	323.5	333.7
35°	2097.3	1809.2	1203.5	588.2	376.0	278.9	273.4	278.0	293.6	306.1	317.1
37.5°	2199.0	1921.5	1208.1	563.8	360.8	267.9	259.1	274.3	283.5	301.0	306.5
40°	2274.5	2003.0	1220.1	548.6	348.9	253.6	253.6	263.7	276.1	292.3	303.3
42.5°	2322.8	2062.3	1228.8	534.8	325.9	249.5	247.1	257.3	273.8	289.5	294.6
44°	2352.3	2087.7	1220.1	521.9	319.4	244.4	244.4	253.1	266.0	284.4	290.4
45°	2359.7	2119.4	1200.8	521.5	311.6	238.4	237.5	254.1	262.8	285.3	289.0
47.5°	2388.2	2158.5	1203.1	506.7	292.7	224.1	240.2	247.6	255.4	275.2	287.7
50°	2387.3	2182.9	1198.0	485.1	278.9	208.0	234.7	243.0	250.8	271.1	276.1
52.5°	2393.7	2274.1	1244.5	450.6	254.1	187.3	216.3	234.7	244.4	261.4	272.0
55°	2390.5	2326.1	1290.5	424.8	219.1	174.9	200.7	222.3	236.1	254.1	259.1
57.5°	2183.4	2055.9	1194.3	376.5	181.3	160.2	178.6	209.4	226.9	245.3	251.8
60°	1783.9	1584.6	984.9	277.1	149.1	147.3	166.1	205.3	212.6	228.7	239.8
62.5°	1648.6	1389.9	781.0	211.7	127.5	134.9	153.3	185.5	197.0	216.8	226.9
65°	1290.1	923.2	483.7	143.1	112.3	121.0	138.5	162.5	181.3	199.7	211.7
67.5°	764.0	504.4	239.3	100.3	98.0	107.2	125.2	143.1	164.8	185.0	191.0
70°	416.1	248.1	102.2	76.4	83.3	91.6	109.1	121.5	142.2	157.9	168.0
72.5°	133.5	75.5	51.1	56.6	63.5	73.2	83.8	99.0	113.7	122.9	131.2
75°	32.2	31.8	36.4	39.6	46.0	53.4	62.1	70.0	81.5	90.2	97.6
77.5°	22.6	24.4	28.1	32.7	35.0	37.7	43.3	49.2	54.3	60.8	65.4
80°	17.5	18.9	21.6	23.9	26.2	28.5	31.3	33.6	36.8	41.0	43.3
82.5°	16.6	17.5	20.3	21.6	20.7	20.3	22.1	23.0	23.5	24.9	26.2
85°	1.4	0.0	0.9	3.2	7.8	11.5	12.4	12.4	12.0	12.9	12.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526442

CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1244.5	1228.8	1234.8	1242.2	1231.6	1207.2	1213.7	1210.9	1235.7	1233.9	1258.8
5°	1043.4	1019.0	1021.7	1057.6	1046.1	1058.6	1033.7	1030.5	1035.1	1037.4	1041.5
7.5°	798.5	795.3	822.9	853.3	867.6	852.8	828.4	822.9	817.8	807.7	830.7
10°	651.7	652.6	650.8	673.8	689.9	686.7	672.0	670.1	660.4	656.8	669.7
12.5°	581.7	569.3	563.3	556.0	568.4	576.7	570.2	565.6	566.1	570.7	572.5
15°	514.1	506.3	493.4	485.1	491.1	486.9	484.6	493.8	491.5	490.6	501.7
17.5°	438.1	444.6	443.7	434.5	442.3	439.1	438.6	432.2	423.4	417.0	420.7
20°	388.0	399.9	409.2	409.6	413.8	413.3	406.4	386.6	380.2	378.8	379.7
22.5°	370.0	376.5	387.5	403.2	403.2	395.8	387.5	364.5	358.5	352.1	349.3
25°	355.8	368.2	382.5	384.3	391.7	384.8	371.4	359.9	347.5	338.7	338.7
27.5°	348.4	362.2	372.8	376.0	386.1	380.6	366.8	352.1	337.4	336.9	329.1
30°	345.2	358.1	365.0	372.8	377.4	368.7	364.5	348.9	334.1	330.5	317.6
32.5°	335.5	353.9	366.8	365.0	368.7	365.0	359.0	346.1	329.5	321.2	319.9
35°	324.5	342.9	356.7	366.4	368.7	360.8	357.1	339.7	317.1	313.0	298.7
37.5°	318.5	329.5	346.6	362.2	365.4	361.3	348.9	330.9	308.4	303.8	291.3
40°	311.1	325.4	338.7	351.6	361.3	351.2	336.9	319.4	309.3	295.5	291.8
42.5°	305.6	321.7	332.8	347.0	358.1	344.7	328.2	316.2	301.9	292.7	282.1
44°	303.8	318.5	325.9	343.3	352.5	342.4	328.6	316.2	299.6	291.3	282.1
45°	297.3	317.6	325.4	341.0	348.9	340.6	323.1	310.7	298.7	288.6	278.9
47.5°	290.9	304.7	318.0	330.5	336.0	333.2	318.5	303.3	289.0	283.0	273.8
50°	289.0	302.8	315.3	326.8	333.2	327.7	314.3	299.6	283.0	273.4	265.6
52.5°	279.8	296.9	310.7	314.3	322.6	319.4	309.3	293.2	277.5	269.2	262.8
55°	266.5	284.4	303.3	307.9	319.9	314.8	299.6	284.4	271.1	258.7	250.4
57.5°	261.4	278.9	297.3	303.3	310.7	302.4	298.7	282.6	261.4	255.0	242.1
60°	248.5	270.6	285.8	299.6	300.1	297.8	291.3	272.9	255.4	243.5	234.3
62.5°	238.4	259.1	271.1	284.0	291.8	285.3	278.9	261.9	243.0	229.7	219.1
65°	223.7	242.5	252.7	260.5	269.2	268.3	257.3	244.8	225.1	214.5	204.3
67.5°	201.1	217.7	231.5	238.9	244.4	243.0	234.7	226.0	205.7	195.1	187.8
70°	174.0	191.0	199.7	203.9	209.4	212.2	205.7	201.6	183.6	169.8	162.9
72.5°	139.9	151.0	163.8	167.5	169.8	171.7	171.7	168.0	149.6	144.1	132.1
75°	103.1	111.8	121.5	121.5	125.6	126.1	127.0	124.7	110.9	103.6	100.8
77.5°	70.0	76.4	84.2	87.4	90.2	89.7	89.3	82.8	75.5	72.3	69.5
80°	45.6	52.0	55.7	59.8	62.6	62.1	63.1	58.5	55.2	49.7	50.6
82.5°	27.2	32.2	35.9	41.0	41.0	42.3	42.3	41.0	37.7	35.0	35.0
85°	12.9	17.0	19.3	22.6	24.4	24.9	22.1	18.9	15.6	14.3	15.6
87.5°	2.3	3.2	4.6	4.1	5.1	4.6	4.6	4.6	4.6	3.7	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526442

CATALOG NUMBER: GALN-SA1B-827-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0
2.5°	1249.6	1272.6	1288.7	1315.4	1361.4	1398.2	1436.0	1464.0	1467.2	1475.5
5°	1056.7	1069.1	1110.1	1163.5	1201.2	1263.4	1303.4	1376.1	1403.3	1432.3
7.5°	825.2	845.5	900.2	936.1	1019.0	1096.8	1177.3	1267.0	1302.9	1307.1
10°	695.9	725.3	762.6	820.1	865.3	951.8	1052.1	1152.0	1192.0	1198.9
12.5°	611.2	648.9	698.6	740.1	783.3	858.8	955.0	1078.3	1130.4	1161.6
15°	529.7	568.9	623.6	681.2	719.4	809.6	922.8	1061.8	1129.4	1157.0
17.5°	446.0	482.3	527.4	589.6	666.4	767.7	917.7	1117.0	1191.1	1223.3
20°	374.2	394.4	446.9	510.9	607.1	724.9	919.6	1198.5	1307.1	1321.4
22.5°	346.1	350.7	371.4	430.3	535.7	681.2	952.2	1314.0	1437.3	1484.3
25°	324.5	323.5	329.1	368.7	483.7	664.1	984.5	1420.3	1581.8	1632.9
27.5°	312.5	303.3	303.8	341.0	446.9	636.5	1025.9	1542.3	1745.7	1768.2
30°	306.5	304.7	299.2	314.3	406.9	595.1	1032.8	1662.4	1842.3	1875.0
32.5°	302.8	284.9	278.0	283.5	369.1	550.0	1058.6	1741.6	1962.0	1947.7
35°	284.4	268.3	263.7	269.2	342.4	524.7	1041.5	1810.6	2051.8	2075.7
37.5°	277.5	263.3	254.1	249.5	317.6	503.5	1032.8	1916.9	2138.7	2196.3
40°	271.1	255.9	244.8	240.2	298.2	475.4	1030.0	1998.8	2239.1	2273.6
42.5°	263.7	254.1	241.6	233.3	274.8	447.4	998.3	2024.1	2269.9	2307.2
44°	261.4	246.7	233.8	231.0	265.6	433.1	991.8	2047.2	2296.6	2353.2
45°	259.1	245.3	230.6	226.9	262.3	425.3	983.1	2052.7	2340.8	2351.4
47.5°	252.7	243.9	229.7	219.5	255.4	408.2	956.8	2021.4	2295.7	2297.5
50°	247.6	237.5	222.8	203.0	246.2	394.0	968.8	2009.9	2187.1	2191.2
52.5°	242.1	226.9	218.6	184.6	231.0	382.0	994.1	2061.9	2199.5	2198.6
55°	235.6	219.1	198.8	168.9	205.7	366.8	1055.3	2164.5	2314.6	2330.2
57.5°	225.5	211.3	182.3	155.1	176.7	337.8	1035.5	1968.0	2129.5	2132.3
60°	212.2	198.8	165.2	144.5	145.0	266.5	926.0	1533.5	1680.3	1720.4
62.5°	199.3	191.9	151.0	129.3	123.3	212.2	782.9	1274.4	1442.4	1475.5
65°	184.1	166.1	138.5	117.8	105.9	148.7	554.6	952.2	1125.3	1169.9
67.5°	164.8	145.4	122.0	103.6	90.7	99.4	286.3	541.2	716.6	742.8
70°	144.1	126.1	102.6	87.4	73.2	68.6	126.1	258.2	391.7	418.8
72.5°	118.3	101.7	81.9	69.0	54.8	47.4	42.3	69.0	139.0	161.5
75°	85.6	74.1	61.7	49.2	38.7	30.4	24.9	20.7	23.0	24.9
77.5°	63.1	53.8	45.6	35.0	27.2	21.6	17.0	12.9	12.4	12.0
80°	49.2	43.7	36.4	28.1	21.2	16.1	12.0	8.7	7.8	7.8
82.5°	38.7	35.9	29.9	23.0	17.5	12.9	8.7	6.0	5.1	5.1
85°	14.7	14.7	21.6	18.9	13.3	9.2	6.0	3.2	2.8	2.8
87.5°	3.7	3.7	3.7	3.7	3.2	2.8	2.8	1.4	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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