

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: P451046

Luminaire Tested: **GALN-SA1D-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4960 lumens
Efficiency: N/A
Efficacy: 76.3 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

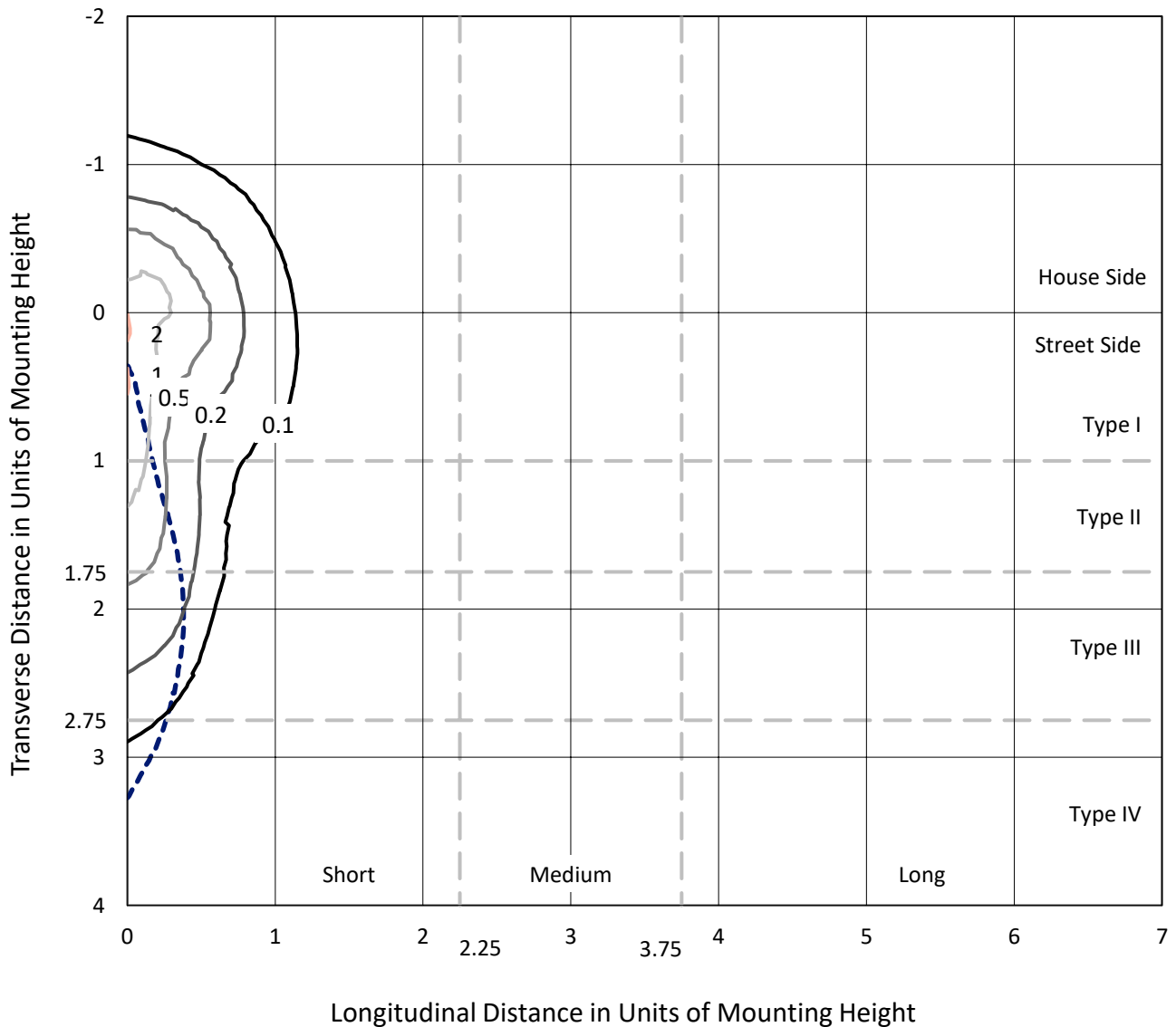
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451046
 CATALOG NUMBER: GALN-SA1D-827-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

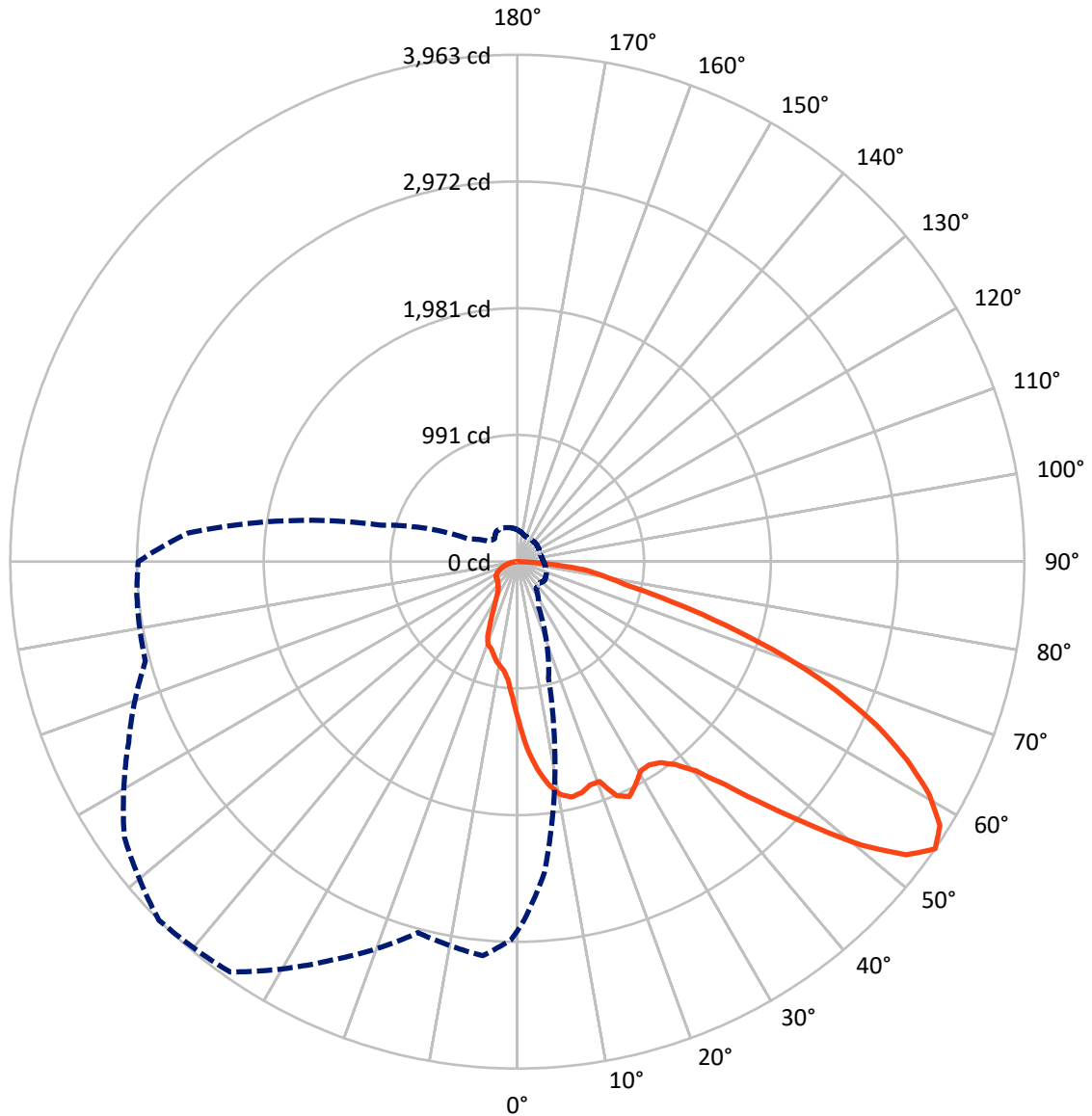
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P451046
CATALOG NUMBER: GALN-SA1D-827-U-SLR

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P451046

CATALOG NUMBER: GALN-SA1D-827-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1085.0	0.0	1085.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3875.0	0.0	3875.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	4960.0	0.0	4960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	2.1
10°-20°	279.9	5.6
20°-30°	483.5	9.7
30°-40°	561.9	11.3
40°-50°	784.0	15.8
50°-60°	1063.8	21.4
60°-70°	1012.1	20.4
70°-80°	546.8	11.0
80°-90°	122.5	2.5
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°	4960.0	100.0
0°-180°	4960.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451046

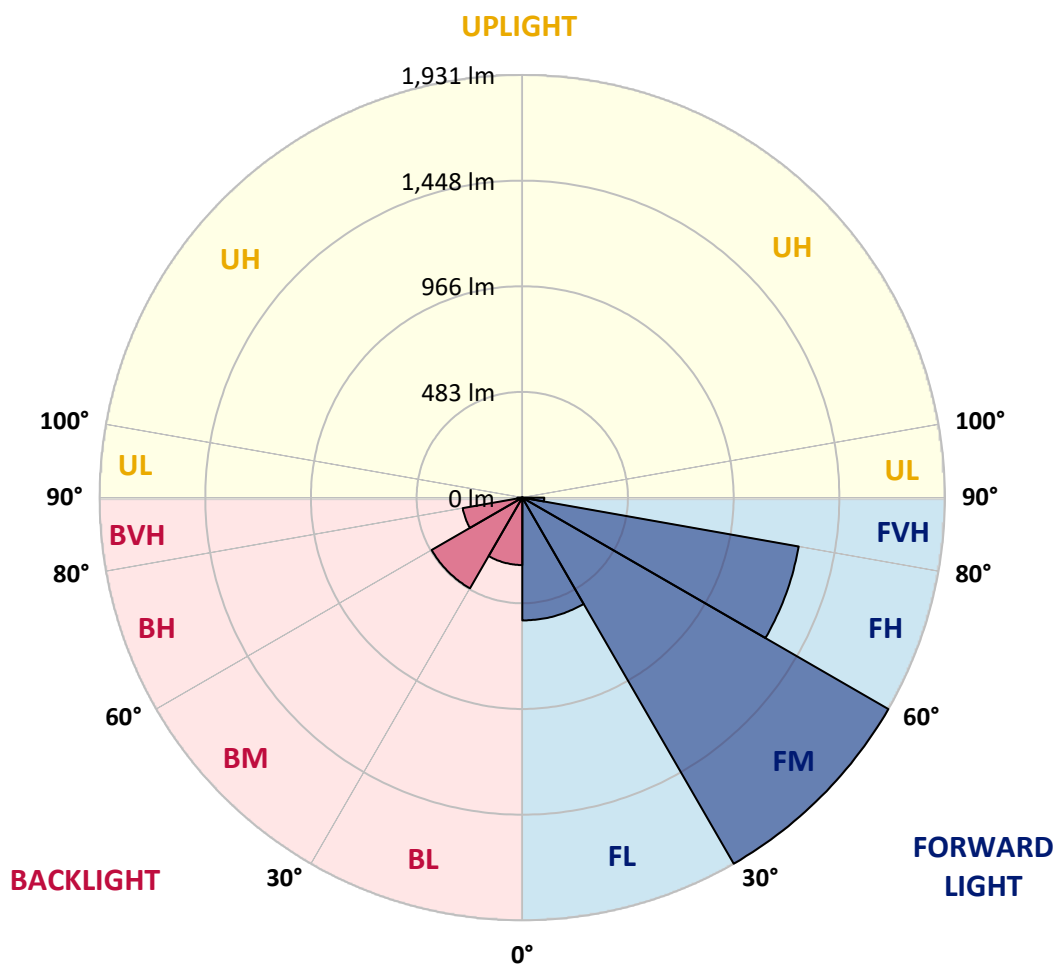
CATALOG NUMBER: GALN-SA1D-827-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.0	11.3			
FM (30°-60°)	1931.3	38.9			
FH (60°-80°)	1282.6	25.9			G1/1800
FVH (80°-90°)	100.1	2.0			G2/225
BL (0°-30°)	307.9	6.2	B1/500		
BM (30°-60°)	478.4	9.6	B1/1000		
BH (60°-80°)	276.3	5.6	B1/500		G1/500
BVH (80°-90°)	22.4	0.5			G1/100
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: P451046

CATALOG NUMBER: GALN-SA1D-827-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8
2.5°	1382.9	1377.6	1362.9	1324.3	1285.3	1245.7	1215.3	1177.4	1137.8	1116.5	1089.3
5°	1401.8	1395.9	1361.3	1274.2	1195.4	1112.6	1046.5	988.5	965.0	930.3	902.5
7.5°	1357.3	1354.7	1302.7	1177.7	1069.7	961.4	886.5	840.0	797.8	782.1	785.3
10°	1316.8	1306.3	1241.2	1077.9	951.9	863.9	810.2	764.7	734.9	727.1	728.7
12.5°	1283.1	1269.0	1192.1	1010.8	900.5	830.2	761.8	714.3	687.2	694.7	720.2
15°	1276.2	1257.2	1171.5	987.9	872.4	781.7	706.8	652.2	631.9	648.2	689.1
17.5°	1320.7	1296.8	1206.8	995.4	845.6	732.3	640.4	577.9	560.9	587.0	640.4
20°	1463.7	1428.3	1317.1	1038.9	842.9	707.8	601.8	538.9	546.1	595.9	651.5
22.5°	1728.1	1675.1	1510.1	1102.4	856.7	701.6	593.9	561.2	600.8	643.0	679.6
25°	1780.4	1738.9	1544.8	1116.8	853.7	697.3	616.2	632.5	676.7	697.6	684.9
27.5°	1809.9	1762.4	1542.5	1045.5	763.4	632.5	589.0	616.2	627.3	607.0	572.3
30°	1878.6	1829.2	1581.5	970.6	628.6	469.2	411.3	400.2	407.7	411.6	399.2
32.5°	1973.2	1924.4	1654.8	921.5	543.5	388.1	331.2	315.4	311.8	307.6	302.7
35°	2095.6	2020.6	1726.8	890.1	508.5	359.0	306.6	294.5	289.6	283.7	278.5
37.5°	2219.9	2141.4	1817.7	857.0	485.3	338.7	290.2	284.7	276.2	270.0	262.4
40°	2352.1	2264.1	1900.5	828.2	462.7	325.6	278.5	277.8	266.7	259.5	250.7
42.5°	2466.6	2376.0	1974.5	810.5	445.4	311.8	271.3	273.2	261.8	251.0	239.5
45°	2557.6	2468.6	2042.9	810.5	431.3	298.1	270.0	268.7	257.2	243.8	230.7
47.5°	2637.4	2545.5	2109.6	831.2	422.4	286.6	262.8	265.1	253.3	236.3	223.5
50°	2699.3	2618.1	2199.6	863.2	413.6	277.5	253.6	266.0	250.0	232.3	217.6
52.5°	2778.1	2705.5	2307.9	907.1	406.1	267.3	245.4	266.0	249.7	232.7	216.6
55°	2887.4	2810.9	2438.5	943.4	394.0	257.9	238.2	258.5	248.7	231.0	214.0
57.5°	2964.0	2906.7	2530.8	967.6	376.6	245.7	231.7	251.3	244.4	224.8	206.2
58°	2967.6	2911.7	2544.2	973.2	372.4	243.5	230.0	248.0	242.5	222.2	203.5
60°	2926.4	2878.3	2546.8	965.3	348.2	232.0	221.5	234.6	232.0	206.8	189.5
62.5°	2776.5	2725.1	2441.1	901.5	316.1	217.9	208.4	216.6	210.7	185.2	169.2
65°	2563.5	2468.9	2223.8	801.4	293.2	202.9	190.8	191.4	185.2	166.9	152.8
67.5°	2279.8	2174.1	1882.9	675.4	275.9	186.2	169.8	168.2	160.7	148.9	137.4
70°	1930.6	1858.3	1530.1	549.4	256.5	167.9	146.3	145.3	140.7	131.9	121.7
72.5°	1564.8	1472.8	1235.6	439.8	233.0	150.2	124.3	126.3	120.4	114.2	105.0
75°	1154.8	1094.6	955.2	352.7	201.2	130.9	103.7	104.4	101.8	95.2	88.0
77.5°	760.5	742.5	683.2	231.7	154.8	104.1	84.8	85.4	83.4	77.6	70.0
80°	511.8	499.7	463.0	149.2	103.4	75.3	65.4	66.1	65.8	59.6	49.4
82.5°	315.4	310.2	298.4	100.8	71.7	54.0	43.2	45.2	48.8	41.9	33.7
85°	148.9	149.2	180.3	55.0	42.2	34.7	23.6	25.2	25.2	25.2	19.0
87.5°	19.3	20.3	24.9	23.2	15.4	13.1	8.5	7.2	6.2	8.2	5.9
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: P451046
 CATALOG NUMBER: GALN-SA1D-827-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8
2.5°	1079.8	1073.3	1059.2	1056.0	1054.0	1059.6	1044.8	1048.8	1042.2	1060.5	1057.6
5°	904.1	904.8	916.2	923.8	926.4	923.8	913.9	896.9	883.8	878.6	879.9
7.5°	779.1	790.6	810.2	832.1	852.1	858.0	852.4	820.0	784.7	762.4	755.2
10°	737.6	752.9	775.5	792.9	810.5	824.6	827.6	802.4	760.5	707.8	687.2
12.5°	739.9	760.8	782.4	788.0	786.3	791.9	789.3	785.0	757.5	690.4	656.1
15°	718.3	743.1	758.2	755.2	750.0	745.1	738.2	727.4	717.6	670.5	632.5
17.5°	668.5	694.0	706.5	707.5	707.5	706.2	689.5	685.5	684.2	661.3	638.1
20°	677.7	691.8	686.2	677.0	679.6	688.5	678.7	676.7	684.2	694.4	690.1
22.5°	682.9	678.0	636.1	595.6	586.4	613.9	619.4	641.4	671.8	708.4	732.3
25°	650.5	610.9	536.0	490.2	464.3	489.9	523.2	563.8	609.3	656.4	684.2
27.5°	543.8	513.7	460.1	418.8	396.3	400.2	428.7	465.6	507.9	539.6	559.9
30°	409.7	396.3	368.5	354.4	340.6	337.4	349.5	363.5	382.2	386.1	391.4
32.5°	301.7	299.7	301.4	296.8	294.2	293.8	290.2	293.5	295.5	297.8	293.2
35°	272.9	270.3	265.7	264.4	262.8	263.4	261.8	260.1	261.5	263.4	264.7
37.5°	258.2	254.3	247.7	245.4	245.4	246.4	243.8	243.1	245.4	251.6	254.9
40°	246.7	242.1	234.6	231.7	233.6	236.3	232.7	231.3	236.9	243.5	248.7
42.5°	235.9	232.3	225.1	221.9	223.5	228.4	223.2	222.2	229.4	236.6	242.8
45°	226.8	223.2	216.6	215.0	215.6	220.2	216.6	216.6	223.5	231.3	236.9
47.5°	219.6	215.0	210.7	209.4	210.1	212.7	212.0	212.0	218.6	226.8	232.3
50°	212.4	208.4	202.9	203.5	205.2	208.8	208.4	209.4	216.0	226.1	232.0
52.5°	209.1	203.2	197.0	197.6	202.6	206.8	205.5	206.5	214.0	233.0	241.5
55°	205.5	197.6	190.4	191.4	197.0	203.2	201.6	202.9	211.7	237.6	249.3
57.5°	198.6	189.5	181.6	182.3	190.4	197.0	194.4	196.0	206.5	232.7	245.1
58°	195.7	187.8	180.3	180.6	188.5	195.7	192.7	194.0	204.8	231.3	243.1
60°	183.2	178.7	172.1	172.4	180.0	186.2	184.6	185.9	196.3	221.9	230.7
62.5°	166.2	163.6	162.0	162.0	166.6	172.4	174.1	175.7	185.2	200.6	208.4
65°	147.9	147.9	148.2	148.2	151.2	158.7	159.7	163.9	172.8	180.3	186.2
67.5°	135.5	134.8	135.5	133.8	135.1	139.7	144.6	148.6	157.7	163.0	164.9
70°	119.4	119.1	119.4	117.1	118.8	122.7	126.0	132.5	142.0	145.9	146.9
72.5°	103.7	103.7	104.4	102.7	102.7	107.0	109.3	116.5	125.3	127.6	127.9
75°	87.4	88.4	88.4	86.1	86.7	89.3	92.3	98.2	106.3	108.0	108.0
77.5°	69.4	73.0	73.0	70.7	71.7	72.0	75.9	78.9	85.1	85.7	83.1
80°	50.4	54.0	56.9	55.0	56.6	54.6	56.9	58.9	65.1	62.2	57.9
82.5°	36.0	38.6	40.9	41.2	39.6	36.0	38.9	39.3	42.2	38.3	36.0
85°	20.0	22.3	25.2	23.9	21.3	19.0	20.0	20.6	20.3	19.3	18.0
87.5°	5.2	5.6	6.2	4.6	4.3	3.6	4.9	4.9	5.6	5.9	5.6
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: P451046
 CATALOG NUMBER: GALN-SA1D-827-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8
2.5°	1059.9	1074.3	1105.4	1128.9	1157.7	1192.7	1234.0	1275.5	1320.4	1334.4	1354.1
5°	877.0	913.0	928.0	970.9	1013.4	1077.2	1145.3	1224.2	1310.5	1352.1	1392.0
7.5°	749.3	768.7	784.4	815.8	866.8	944.4	1029.8	1128.3	1250.7	1311.2	1369.8
10°	680.6	682.6	701.9	740.8	785.3	853.7	934.6	1044.8	1181.3	1254.9	1323.6
12.5°	635.1	626.6	647.6	688.2	738.5	801.7	876.0	981.0	1131.2	1206.8	1289.9
15°	595.2	581.8	597.5	639.1	688.8	763.1	842.9	954.2	1111.6	1199.6	1291.9
17.5°	596.2	559.2	564.8	599.8	649.2	724.8	821.7	953.2	1141.4	1242.8	1352.1
20°	669.8	610.6	585.4	592.0	639.7	722.2	831.5	999.0	1239.2	1387.1	1503.9
22.5°	742.1	706.5	665.9	652.5	678.7	765.1	894.0	1107.3	1451.9	1674.7	1885.8
25°	717.0	747.4	737.2	718.3	724.2	795.8	936.5	1196.3	1617.1	1868.1	2066.4
27.5°	573.6	628.9	640.1	639.7	642.0	700.9	842.3	1136.5	1637.8	1905.1	2094.6
30°	403.1	408.1	413.9	425.4	435.9	488.5	659.0	997.7	1628.6	1921.8	2111.6
32.5°	290.9	297.4	305.6	321.3	346.2	413.3	576.6	953.5	1677.0	1990.8	2161.3
35°	266.0	273.6	281.4	299.4	323.0	385.1	543.8	935.2	1756.5	2102.8	2250.7
37.5°	258.2	266.7	273.6	286.6	305.6	364.9	514.1	922.8	1838.0	2221.2	2370.4
40°	252.6	262.4	268.0	278.5	291.6	346.2	487.6	913.0	1916.9	2329.5	2466.6
42.5°	247.7	257.9	265.1	272.6	283.4	329.5	464.0	903.1	1985.3	2434.6	2562.5
45°	241.8	254.6	263.7	269.6	279.1	315.4	446.0	895.3	2063.2	2527.8	2659.4
47.5°	236.9	251.0	262.4	269.3	272.9	305.6	431.6	906.1	2156.7	2625.3	2749.3
50°	237.2	250.7	265.1	275.9	266.4	297.4	422.8	949.0	2278.5	2741.2	2820.4
52.5°	247.7	264.1	275.5	278.1	257.2	287.6	418.2	1023.9	2422.5	2843.6	2892.0
55°	259.5	276.5	288.9	287.3	252.3	275.2	417.2	1103.7	2580.2	2963.0	2985.3
57.5°	255.2	280.1	299.1	290.6	252.6	263.1	413.0	1168.2	2712.0	3052.4	3077.6
58°	253.9	278.8	300.4	289.9	251.6	259.5	412.0	1173.8	2730.4	3058.6	3090.6
60°	241.2	267.3	299.4	285.0	246.1	249.7	401.2	1191.8	2725.5	3026.5	3098.5
62.5°	217.9	239.5	276.8	261.1	229.1	236.6	377.0	1169.5	2592.6	2872.1	2983.6
65°	191.8	207.8	232.7	229.7	204.8	223.2	343.9	1081.5	2326.6	2621.4	2738.9
67.5°	172.1	185.2	200.9	196.7	184.2	205.2	308.2	932.6	2028.1	2320.4	2468.3
70°	152.2	162.3	170.2	167.2	163.3	187.5	276.5	756.9	1742.1	2034.4	2177.7
72.5°	131.9	141.4	147.9	143.7	141.4	168.8	250.7	587.4	1376.0	1678.3	1862.6
75°	110.3	119.8	124.3	119.4	118.1	148.9	212.4	438.8	1032.4	1293.9	1452.9
77.5°	85.4	95.5	101.4	99.8	100.5	122.4	171.5	300.4	738.2	881.9	1049.4
80°	59.9	71.0	74.9	73.3	77.9	93.3	121.1	190.8	509.2	572.3	690.4
82.5°	37.0	47.4	48.1	49.7	53.0	69.0	91.3	116.2	319.7	330.5	416.2
85°	18.7	22.6	24.2	26.8	29.8	42.2	52.0	72.0	205.8	155.8	232.7
87.5°	6.2	6.5	7.9	9.8	12.1	17.3	22.3	29.5	51.0	28.1	72.0
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: P451046

CATALOG NUMBER: GALN-SA1D-827-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8	1244.8
2.5°	1393.7	1421.5	1441.8	1460.4	1442.4	1440.8	1423.1	1394.6	1382.9	1382.9
5°	1475.8	1540.9	1593.6	1627.3	1612.9	1578.2	1520.9	1448.0	1408.7	1401.8
7.5°	1498.4	1627.0	1724.8	1759.5	1735.3	1658.7	1549.1	1426.0	1369.8	1357.3
10°	1484.6	1651.8	1795.5	1850.5	1816.8	1700.9	1551.4	1400.5	1331.2	1316.8
12.5°	1470.2	1655.1	1808.6	1888.1	1866.2	1735.0	1568.1	1383.8	1303.7	1283.1
15°	1480.7	1656.4	1792.5	1874.7	1888.7	1775.9	1595.6	1395.9	1298.1	1276.2
17.5°	1546.8	1681.3	1769.6	1836.1	1885.5	1831.5	1673.8	1453.9	1347.8	1320.7
20°	1684.9	1740.8	1782.7	1834.1	1913.6	1945.0	1833.8	1612.9	1487.6	1463.7
22.5°	2084.8	2074.6	1988.9	1987.9	2103.1	2229.1	2221.5	1936.2	1747.7	1728.1
25°	2234.6	2187.5	2063.5	2033.4	2084.1	2278.5	2250.3	2002.3	1828.2	1780.4
27.5°	2176.1	2059.2	1977.8	1970.9	1954.2	2137.8	2205.5	2029.1	1856.4	1809.9
30°	2172.5	2000.7	1884.2	1897.9	1913.9	2089.3	2230.4	2113.2	1928.3	1878.6
32.5°	2181.3	2008.8	1891.0	1893.7	1941.4	2096.5	2257.9	2204.8	2022.9	1973.2
35°	2217.0	2055.3	1934.9	1928.7	2003.3	2143.7	2304.7	2348.8	2152.2	2095.6
37.5°	2274.5	2147.9	2015.1	2013.4	2121.7	2228.7	2362.9	2494.1	2280.8	2219.9
40°	2359.3	2256.2	2157.7	2148.9	2282.7	2367.2	2438.5	2648.9	2430.3	2352.1
42.5°	2461.7	2386.1	2345.9	2380.9	2509.5	2522.6	2556.3	2791.9	2557.6	2466.6
45°	2556.6	2553.0	2609.0	2701.9	2776.8	2698.3	2679.3	2887.8	2656.4	2557.6
47.5°	2669.5	2767.0	2935.9	3072.0	3150.5	2902.8	2784.4	2950.3	2728.4	2637.4
50°	2784.0	3023.2	3292.9	3482.7	3499.4	3125.0	2856.7	3009.2	2793.9	2699.3
52.5°	2904.5	3227.8	3586.7	3807.3	3774.9	3318.4	2926.7	3049.1	2861.3	2778.1
55°	3009.2	3353.1	3751.0	3962.7	3915.3	3436.2	3002.3	3092.3	2957.5	2887.4
57.5°	3067.7	3363.6	3710.1	3895.0	3843.6	3413.3	3037.0	3124.4	3019.0	2964.0
58°	3076.2	3349.5	3673.8	3855.7	3803.3	3394.0	3036.7	3123.0	3022.9	2967.6
60°	3068.7	3258.2	3538.6	3700.6	3645.6	3272.9	3024.2	3098.5	2973.2	2926.4
62.5°	2999.0	3099.8	3305.3	3423.1	3407.4	3083.8	2973.2	3005.9	2821.7	2776.5
65°	2907.4	2883.8	3006.5	3090.0	3101.8	2942.1	2922.5	2805.6	2627.3	2563.5
67.5°	2796.1	2639.1	2638.7	2686.2	2705.8	2724.2	2816.8	2588.0	2347.2	2279.8
70°	2607.3	2261.8	2157.7	2213.7	2197.3	2352.1	2627.9	2282.4	2009.5	1930.6
72.5°	2261.1	1794.8	1628.3	1700.3	1659.0	1844.6	2299.4	1878.3	1661.7	1564.8
75°	1832.8	1342.6	1170.8	1236.9	1211.4	1399.2	1913.3	1364.2	1191.8	1154.8
77.5°	1423.1	972.8	873.0	863.9	882.9	1041.2	1403.5	921.1	785.7	760.5
80°	914.3	696.3	702.2	690.4	700.3	656.4	852.1	587.7	532.1	511.8
82.5°	601.8	485.3	578.5	534.0	507.2	441.4	558.9	384.8	326.6	315.4
85°	410.0	357.3	325.3	248.7	292.9	340.0	419.2	207.1	164.3	148.9
87.5°	185.2	124.3	91.3	56.3	89.0	102.7	203.5	24.2	18.7	19.3
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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