

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: P458586

Luminaire Tested: **GALN-SA1C-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458586
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-SA1C-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5712 lumens
Efficiency: N/A
Efficacy: 100.2 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

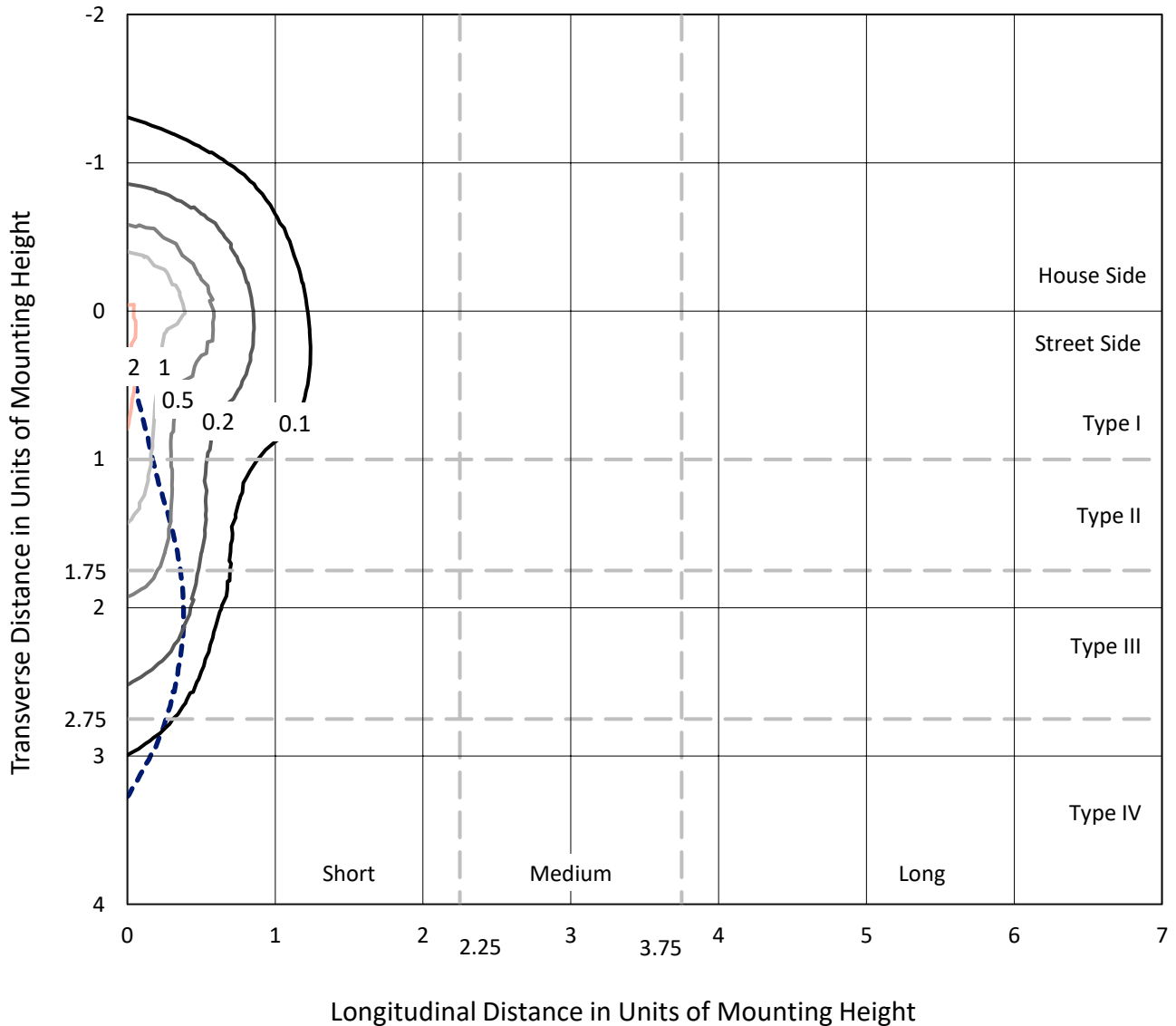
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458586
 CATALOG NUMBER: GALN-SA1C-735-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

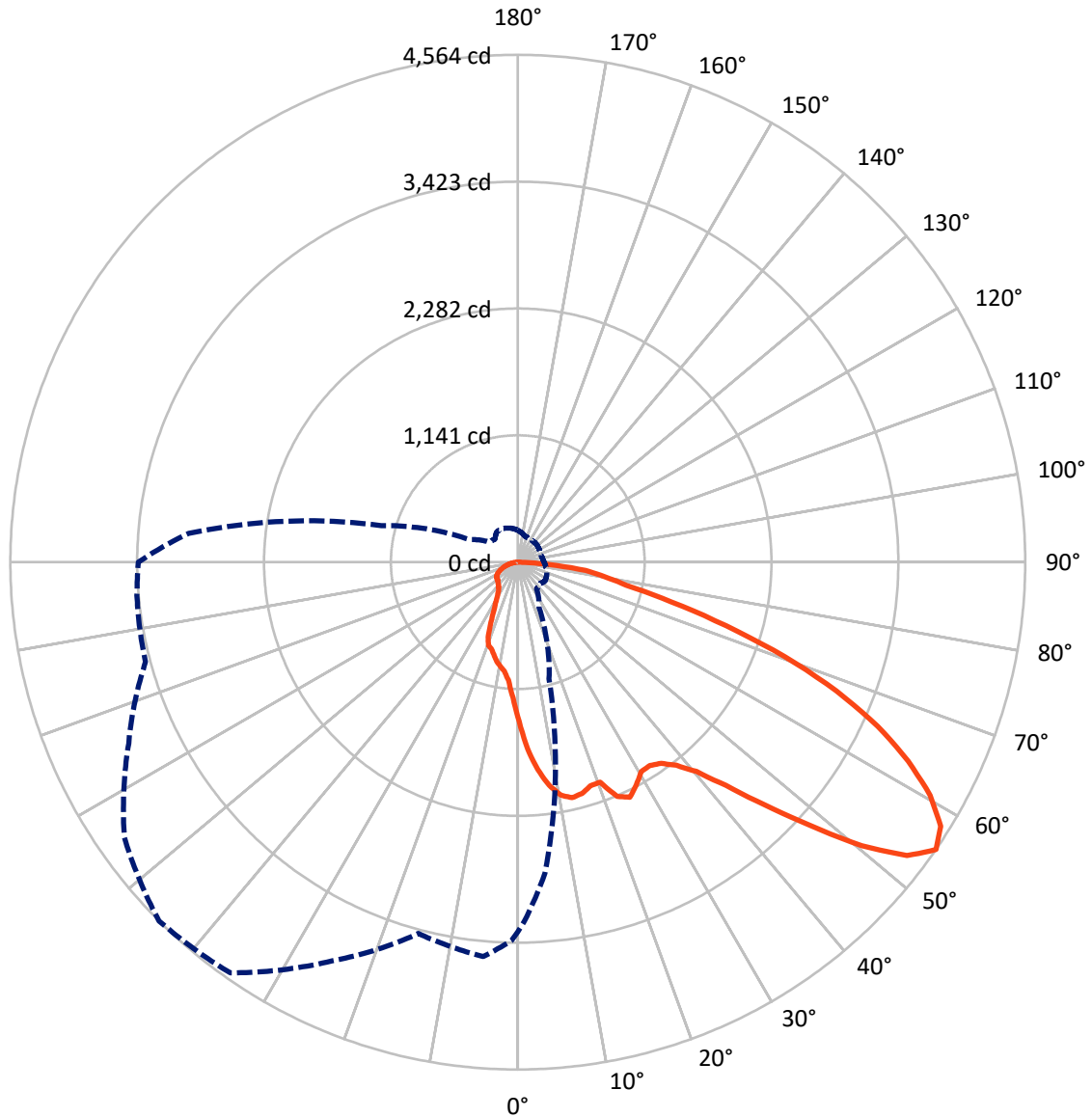
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P458586
CATALOG NUMBER: GALN-SA1C-735-U-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458586

CATALOG NUMBER: GALN-SA1C-735-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1249.5	0.0	1249.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4462.5	0.0	4462.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	5712.0	0.0	5712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	2.1
10°-20°	322.3	5.6
20°-30°	556.8	9.7
30°-40°	647.1	11.3
40°-50°	902.9	15.8
50°-60°	1225.1	21.4
60°-70°	1165.5	20.4
70°-80°	629.6	11.0
80°-90°	141.1	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°	5712.0	100.0
0°-180°	5712.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458586

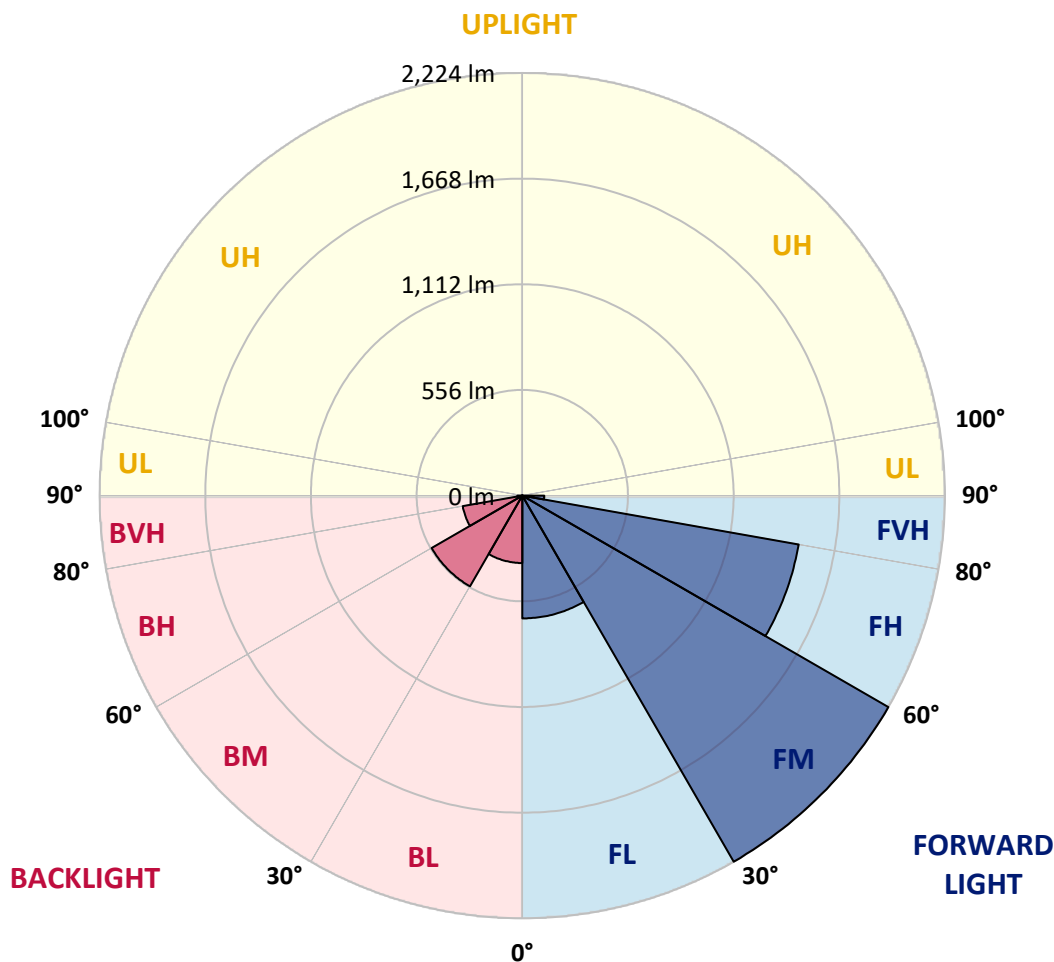
CATALOG NUMBER: GALN-SA1C-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.0	11.3			
FM	(30°-60°)	2224.1	38.9			
FH	(60°-80°)	1477.0	25.9			G1/1800
FVH	(80°-90°)	115.3	2.0			G2/225
BL	(0°-30°)	354.6	6.2	B1/500		
BM	(30°-60°)	550.9	9.6	B1/1000		
BH	(60°-80°)	318.1	5.6	B1/500		G1/500
BVH	(80°-90°)	25.8	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: P458586
 CATALOG NUMBER: GALN-SA1C-735-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5
2.5°	1592.5	1586.5	1569.5	1525.1	1480.2	1434.6	1399.6	1355.9	1310.3	1285.8	1254.5
5°	1614.4	1607.6	1567.6	1467.4	1376.6	1281.2	1205.1	1138.4	1111.3	1071.3	1039.3
7.5°	1563.1	1560.1	1500.2	1356.2	1231.9	1107.1	1020.9	967.3	918.7	900.6	904.4
10°	1516.4	1504.3	1429.3	1241.3	1096.2	994.9	933.0	880.7	846.4	837.3	839.2
12.5°	1477.6	1461.4	1372.8	1164.1	1037.1	956.0	877.3	822.6	791.4	800.0	829.4
15°	1469.7	1447.8	1349.1	1137.7	1004.6	900.3	814.0	751.0	727.7	746.5	793.6
17.5°	1520.9	1493.4	1389.8	1146.3	973.7	843.4	737.5	665.5	645.9	676.0	737.5
20°	1685.6	1644.9	1516.8	1196.5	970.7	815.1	693.0	620.7	628.9	686.2	750.3
22.5°	1990.1	1929.0	1739.1	1269.6	986.6	807.9	684.0	646.3	691.9	740.5	782.7
25°	2050.4	2002.5	1779.0	1286.1	983.2	803.0	709.6	728.4	779.3	803.4	788.7
27.5°	2084.3	2029.6	1776.4	1204.0	879.2	728.4	678.3	709.6	722.4	699.0	659.1
30°	2163.4	2106.5	1821.3	1117.7	723.9	540.4	473.7	460.9	469.5	474.1	459.7
32.5°	2272.3	2216.2	1905.7	1061.2	625.9	446.9	381.4	363.3	359.1	354.2	348.6
35°	2413.3	2327.0	1988.6	1025.0	585.6	413.4	353.1	339.2	333.5	326.7	320.7
37.5°	2556.5	2466.0	2093.3	986.9	558.8	390.0	334.3	327.8	318.1	310.9	302.2
40°	2708.7	2607.3	2188.7	953.8	532.8	375.0	320.7	319.9	307.1	298.8	288.7
42.5°	2840.6	2736.2	2273.8	933.4	512.9	359.1	312.4	314.7	301.5	289.0	275.8
45°	2945.4	2842.9	2352.6	933.4	496.7	343.3	310.9	309.4	296.2	280.7	265.7
47.5°	3037.3	2931.4	2429.5	957.2	486.5	330.1	302.6	305.2	291.7	272.1	257.4
50°	3108.5	3015.1	2533.1	994.1	476.3	319.6	292.0	306.4	287.9	267.6	250.6
52.5°	3199.3	3115.7	2657.8	1044.6	467.7	307.9	282.6	306.4	287.5	267.9	249.5
55°	3325.2	3237.0	2808.2	1086.4	453.7	296.9	274.3	297.7	286.4	266.0	246.5
57.5°	3413.4	3347.4	2914.5	1114.3	433.7	283.0	266.8	289.4	281.5	258.9	237.4
58°	3417.5	3353.1	2929.9	1120.7	428.8	280.4	264.9	285.6	279.2	255.9	234.4
60°	3370.1	3314.7	2932.9	1111.7	401.0	267.2	255.1	270.2	267.2	238.2	218.2
62.5°	3197.5	3138.3	2811.2	1038.2	364.0	251.0	240.0	249.5	242.7	213.3	194.8
65°	2952.1	2843.2	2561.0	922.9	337.6	233.6	219.7	220.4	213.3	192.2	176.0
67.5°	2625.4	2503.7	2168.3	777.8	317.7	214.4	195.6	193.7	185.0	171.5	158.3
70°	2223.3	2140.1	1762.1	632.7	295.4	193.3	168.4	167.3	162.0	151.9	140.2
72.5°	1802.0	1696.1	1422.9	506.5	268.3	173.0	143.2	145.5	138.7	131.5	121.0
75°	1329.9	1260.5	1100.0	406.2	231.8	150.7	119.5	120.2	117.2	109.7	101.4
77.5°	875.8	855.0	786.8	266.8	178.2	119.8	97.6	98.4	96.1	89.3	80.6
80°	589.4	575.4	533.2	171.8	119.1	86.7	75.4	76.1	75.7	68.6	56.9
82.5°	363.3	357.2	343.7	116.1	82.5	62.2	49.7	52.0	56.1	48.2	38.8
85°	171.5	171.8	207.6	63.3	48.6	39.9	27.1	29.0	29.0	29.0	21.9
87.5°	22.2	23.4	28.6	26.8	17.7	15.1	9.8	8.3	7.2	9.4	6.8
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: P458586
 CATALOG NUMBER: GALN-SA1C-735-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5
2.5°	1243.6	1236.0	1219.8	1216.1	1213.8	1220.2	1203.2	1207.8	1200.2	1221.3	1217.9
5°	1041.2	1042.0	1055.1	1063.8	1066.8	1063.8	1052.5	1032.9	1017.8	1011.8	1013.3
7.5°	897.2	910.4	933.0	958.3	981.3	988.1	981.7	944.4	903.7	878.0	869.7
10°	849.4	867.1	893.1	913.1	933.4	949.6	953.0	924.0	875.8	815.1	791.4
12.5°	852.0	876.1	901.0	907.4	905.5	911.9	908.9	904.0	872.4	795.1	755.6
15°	827.2	855.8	873.1	869.7	863.7	858.1	850.1	837.7	826.4	772.1	728.4
17.5°	769.9	799.3	813.6	814.7	814.7	813.2	794.0	789.5	788.0	761.6	734.8
20°	780.4	796.6	790.2	779.7	782.7	792.9	781.6	779.3	788.0	799.6	794.7
22.5°	786.5	780.8	732.6	685.8	675.3	706.9	713.4	738.6	773.6	815.9	843.4
25°	749.2	703.6	617.3	564.5	534.7	564.1	602.6	649.3	701.7	755.9	788.0
27.5°	626.3	591.6	529.8	482.4	456.3	460.9	493.7	536.2	584.9	621.4	644.8
30°	471.8	456.3	424.3	408.1	392.3	388.5	402.5	418.7	440.1	444.7	450.7
32.5°	347.4	345.2	347.1	341.8	338.8	338.4	334.3	338.0	340.3	342.9	337.6
35°	314.3	311.3	306.0	304.5	302.6	303.4	301.5	299.6	301.1	303.4	304.9
37.5°	297.3	292.8	285.3	282.6	282.6	283.8	280.7	280.0	282.6	289.8	293.6
40°	284.1	278.9	270.2	266.8	269.1	272.1	267.9	266.4	272.8	280.4	286.4
42.5°	271.7	267.6	259.3	255.5	257.4	263.0	257.0	255.9	264.2	272.5	279.6
45°	261.1	257.0	249.5	247.6	248.3	253.6	249.5	249.5	257.4	266.4	272.8
47.5°	252.9	247.6	242.7	241.2	241.9	244.9	244.2	244.2	251.7	261.1	267.6
50°	244.6	240.0	233.6	234.4	236.3	240.4	240.0	241.2	248.7	260.4	267.2
52.5°	240.8	234.0	226.9	227.6	233.3	238.2	236.7	237.8	246.5	268.3	278.1
55°	236.7	227.6	219.3	220.4	226.9	234.0	232.1	233.6	243.8	273.6	287.1
57.5°	228.7	218.2	209.1	209.9	219.3	226.9	223.8	225.7	237.8	267.9	282.3
58°	225.3	216.3	207.6	208.0	217.1	225.3	222.0	223.5	235.9	266.4	280.0
60°	211.0	205.8	198.2	198.6	207.3	214.4	212.5	214.0	226.1	255.5	265.7
62.5°	191.4	188.4	186.5	186.5	191.8	198.6	200.5	202.4	213.3	231.0	240.0
65°	170.3	170.3	170.7	170.7	174.1	182.8	183.9	188.8	199.0	207.6	214.4
67.5°	156.0	155.3	156.0	154.1	155.6	160.9	166.6	171.1	181.6	187.7	189.9
70°	137.5	137.2	137.5	134.9	136.8	141.3	145.1	152.6	163.5	168.1	169.2
72.5°	119.5	119.5	120.2	118.3	118.3	123.2	125.9	134.2	144.3	147.0	147.3
75°	100.6	101.7	101.7	99.1	99.9	102.9	106.3	113.1	122.5	124.4	124.4
77.5°	79.9	84.0	84.0	81.4	82.5	82.9	87.4	90.8	98.0	98.7	95.7
80°	58.0	62.2	65.6	63.3	65.2	62.9	65.6	67.8	75.0	71.6	66.7
82.5°	41.5	44.5	47.1	47.5	45.6	41.5	44.8	45.2	48.6	44.1	41.5
85°	23.0	25.6	29.0	27.5	24.5	21.9	23.0	23.7	23.4	22.2	20.7
87.5°	6.0	6.4	7.2	5.3	4.9	4.1	5.7	5.7	6.4	6.8	6.4
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: P458586

CATALOG NUMBER: GALN-SA1C-735-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5
2.5°	1220.6	1237.2	1273.0	1300.1	1333.3	1373.6	1421.1	1468.9	1520.5	1536.7	1559.4
5°	1009.9	1051.4	1068.7	1118.1	1167.1	1240.5	1318.9	1409.7	1509.2	1557.1	1603.1
7.5°	863.0	885.2	903.3	939.5	998.2	1087.6	1185.9	1299.3	1440.3	1510.0	1577.4
10°	783.8	786.1	808.3	853.2	904.4	983.2	1076.2	1203.2	1360.4	1445.2	1524.3
12.5°	731.4	721.6	745.8	792.5	850.5	923.3	1008.8	1129.8	1302.7	1389.8	1485.5
15°	685.5	670.0	688.1	736.0	793.2	878.8	970.7	1098.9	1280.1	1381.5	1487.8
17.5°	686.6	644.0	650.4	690.7	747.6	834.7	946.2	1097.7	1314.4	1431.2	1557.1
20°	771.4	703.2	674.2	681.7	736.7	831.7	957.5	1150.5	1427.1	1597.4	1731.9
22.5°	854.7	813.6	766.9	751.4	781.6	881.0	1029.5	1275.2	1672.0	1928.7	2171.7
25°	825.7	860.7	849.0	827.2	833.9	916.5	1078.5	1377.7	1862.3	2151.4	2379.7
27.5°	660.6	724.3	737.1	736.7	739.4	807.2	970.0	1308.8	1886.1	2193.9	2412.1
30°	464.3	469.9	476.7	489.9	501.9	562.6	759.0	1149.0	1875.5	2213.2	2431.7
32.5°	335.0	342.5	352.0	370.1	398.7	475.9	664.0	1098.1	1931.3	2292.7	2489.0
35°	306.4	315.0	324.1	344.8	371.9	443.5	626.3	1077.0	2022.9	2421.6	2591.9
37.5°	297.3	307.1	315.0	330.1	352.0	420.2	592.0	1062.7	2116.7	2558.0	2729.8
40°	290.9	302.2	308.6	320.7	335.8	398.7	561.5	1051.4	2207.5	2682.7	2840.6
42.5°	285.3	296.9	305.2	313.9	326.3	379.5	534.4	1040.1	2286.3	2803.7	2951.0
45°	278.5	293.2	303.7	310.5	321.4	363.3	513.6	1031.0	2376.0	2911.1	3062.6
47.5°	272.8	289.0	302.2	310.1	314.3	352.0	497.0	1043.5	2483.7	3023.4	3166.2
50°	273.2	288.7	305.2	317.7	306.7	342.5	486.9	1092.8	2623.9	3156.8	3248.0
52.5°	285.3	304.1	317.3	320.3	296.2	331.2	481.6	1179.1	2789.7	3274.7	3330.5
55°	298.8	318.4	332.7	330.9	290.5	316.9	480.5	1271.1	2971.4	3412.3	3437.9
57.5°	293.9	322.6	344.4	334.6	290.9	303.0	475.6	1345.3	3123.2	3515.1	3544.2
58°	292.4	321.1	345.9	333.9	289.8	298.8	474.4	1351.7	3144.3	3522.3	3559.2
60°	277.7	307.9	344.8	328.2	283.4	287.5	462.0	1372.4	3138.7	3485.4	3568.3
62.5°	251.0	275.8	318.8	300.7	263.8	272.5	434.1	1346.8	2985.7	3307.5	3436.0
65°	220.8	239.3	267.9	264.5	235.9	257.0	396.1	1245.4	2679.3	3018.8	3154.1
67.5°	198.2	213.3	231.4	226.5	212.2	236.3	355.0	1074.0	2335.6	2672.2	2842.5
70°	175.2	186.9	196.0	192.6	188.0	215.9	318.4	871.6	2006.3	2342.8	2507.9
72.5°	151.9	162.8	170.3	165.4	162.8	194.4	288.7	676.4	1584.6	1932.8	2145.0
75°	127.0	137.9	143.2	137.5	136.0	171.5	244.6	505.3	1188.9	1490.0	1673.2
77.5°	98.4	110.0	116.8	114.9	115.7	140.9	197.5	345.9	850.1	1015.6	1208.5
80°	69.0	81.8	86.3	84.4	89.7	107.4	139.4	219.7	586.4	659.1	795.1
82.5°	42.6	54.6	55.4	57.3	61.0	79.5	105.1	133.8	368.2	380.6	479.3
85°	21.5	26.0	27.9	30.9	34.3	48.6	59.9	82.9	237.0	179.4	267.9
87.5°	7.2	7.5	9.0	11.3	13.9	20.0	25.6	33.9	58.8	32.4	82.9
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: P458586

CATALOG NUMBER: GALN-SA1C-735-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5	1433.5
2.5°	1604.9	1637.0	1660.3	1681.8	1661.1	1659.2	1638.9	1606.1	1592.5	1592.5
5°	1699.5	1774.5	1835.2	1874.0	1857.4	1817.5	1751.5	1667.5	1622.3	1614.4
7.5°	1725.5	1873.6	1986.3	2026.3	1998.4	1910.2	1783.9	1642.3	1577.4	1563.1
10°	1709.7	1902.3	2067.7	2131.0	2092.2	1958.8	1786.6	1612.9	1533.0	1516.4
12.5°	1693.1	1906.0	2082.8	2174.4	2149.1	1998.0	1805.8	1593.6	1501.3	1477.6
15°	1705.2	1907.6	2064.3	2158.9	2175.1	2045.1	1837.5	1607.6	1494.9	1469.7
17.5°	1781.3	1936.2	2037.9	2114.4	2171.3	2109.2	1927.5	1674.3	1552.2	1520.9
20°	1940.3	2004.8	2053.0	2112.2	2203.7	2239.9	2111.8	1857.4	1713.1	1685.6
22.5°	2400.8	2389.1	2290.4	2289.3	2421.9	2567.0	2558.3	2229.7	2012.7	1990.1
25°	2573.4	2519.2	2376.3	2341.7	2400.1	2623.9	2591.5	2305.9	2105.4	2050.4
27.5°	2506.0	2371.4	2277.6	2269.7	2250.5	2461.9	2539.9	2336.8	2137.8	2084.3
30°	2501.8	2304.0	2169.8	2185.7	2204.1	2406.1	2568.5	2433.6	2220.7	2163.4
32.5°	2512.0	2313.4	2177.7	2180.8	2235.8	2414.4	2600.2	2539.1	2329.6	2272.3
35°	2553.1	2366.9	2228.2	2221.1	2307.0	2468.7	2654.1	2704.9	2478.5	2413.3
37.5°	2619.4	2473.6	2320.6	2318.7	2443.4	2566.6	2721.1	2872.3	2626.6	2556.5
40°	2717.0	2598.3	2484.9	2474.7	2628.8	2726.0	2808.2	3050.5	2798.8	2708.7
42.5°	2834.9	2747.9	2701.5	2741.9	2890.0	2905.0	2943.9	3215.2	2945.4	2840.6
45°	2944.2	2940.1	3004.5	3111.5	3197.8	3107.4	3085.5	3325.6	3059.2	2945.4
47.5°	3074.2	3186.5	3381.0	3537.7	3628.2	3342.9	3206.5	3397.6	3142.1	3037.3
50°	3206.1	3481.6	3792.1	4010.7	4029.9	3598.8	3289.8	3465.4	3217.4	3108.5
52.5°	3344.8	3717.1	4130.5	4384.5	4347.2	3821.5	3370.4	3511.4	3295.1	3199.3
55°	3465.4	3861.5	4319.7	4563.5	4508.9	3957.2	3457.5	3561.1	3405.9	3325.2
57.5°	3532.8	3873.5	4272.6	4485.5	4426.3	3930.8	3497.4	3598.0	3476.7	3413.4
58°	3542.6	3857.3	4230.8	4440.3	4380.0	3908.6	3497.0	3596.5	3481.2	3417.5
60°	3534.0	3752.2	4075.1	4261.7	4198.3	3769.1	3482.7	3568.3	3423.9	3370.1
62.5°	3453.7	3569.8	3806.4	3942.1	3924.0	3551.3	3423.9	3461.6	3249.5	3197.5
65°	3348.2	3321.1	3462.4	3558.5	3572.0	3388.1	3365.5	3231.0	3025.6	2952.1
67.5°	3220.1	3039.2	3038.8	3093.5	3116.1	3137.2	3243.8	2980.4	2703.1	2625.4
70°	3002.6	2604.7	2484.9	2549.3	2530.5	2708.7	3026.4	2628.4	2314.2	2223.3
72.5°	2603.9	2067.0	1875.1	1958.0	1910.6	2124.2	2648.0	2163.0	1913.6	1802.0
75°	2110.7	1546.2	1348.3	1424.4	1395.1	1611.4	2203.4	1571.0	1372.4	1329.9
77.5°	1638.9	1120.3	1005.4	994.9	1016.7	1199.1	1616.3	1060.8	904.8	875.8
80°	1052.9	801.9	808.7	795.1	806.4	755.9	981.3	676.8	612.7	589.4
82.5°	693.0	558.8	666.2	615.0	584.1	508.4	643.6	443.2	376.1	363.3
85°	472.2	411.5	374.6	286.4	337.3	391.5	482.7	238.5	189.2	171.5
87.5°	213.3	143.2	105.1	64.8	102.5	118.3	234.4	27.9	21.5	22.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)