

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: P458526

Luminaire Tested: **GALN-SA1A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3716 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

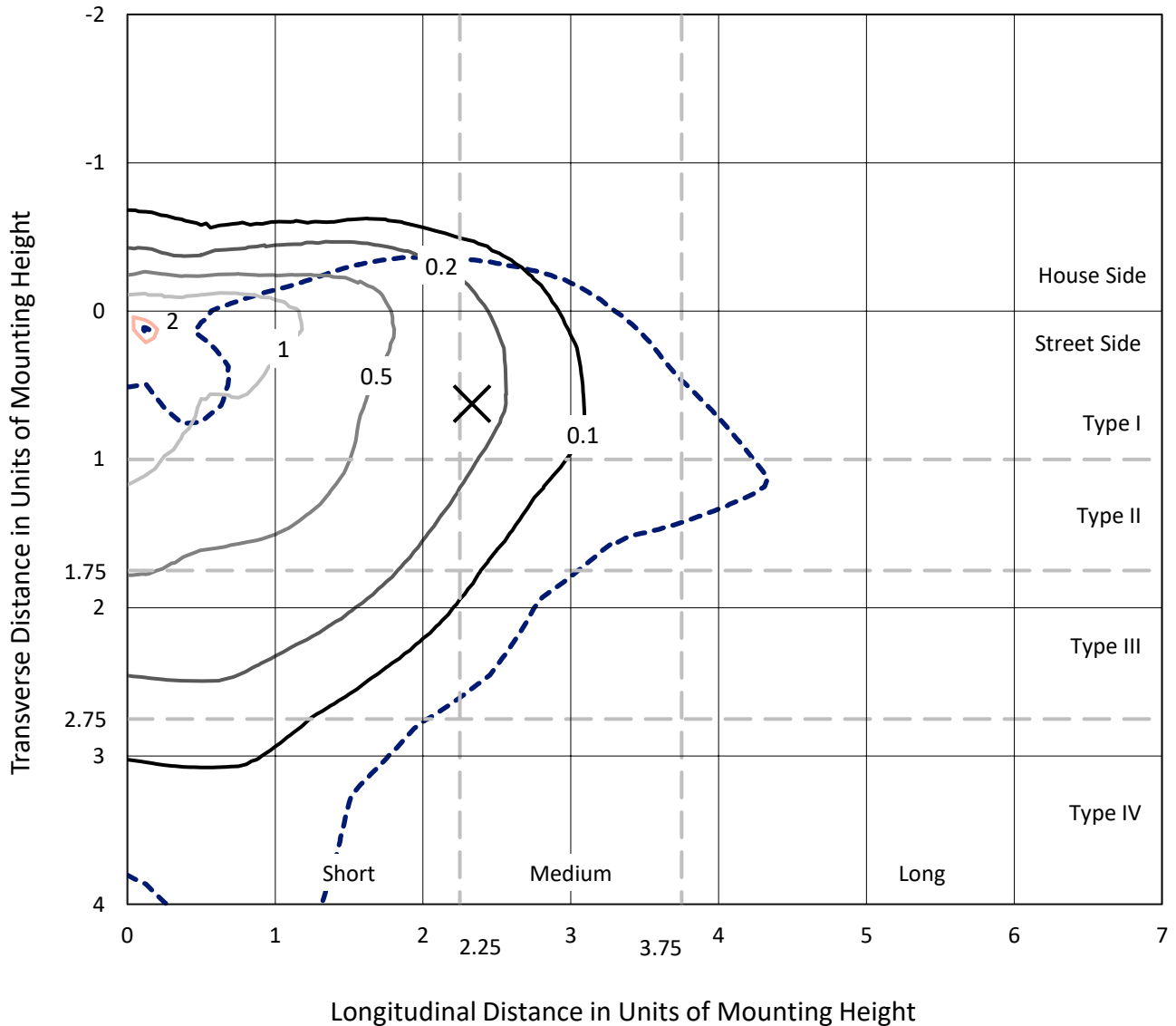
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458526
 CATALOG NUMBER: GALN-SA1A-735-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

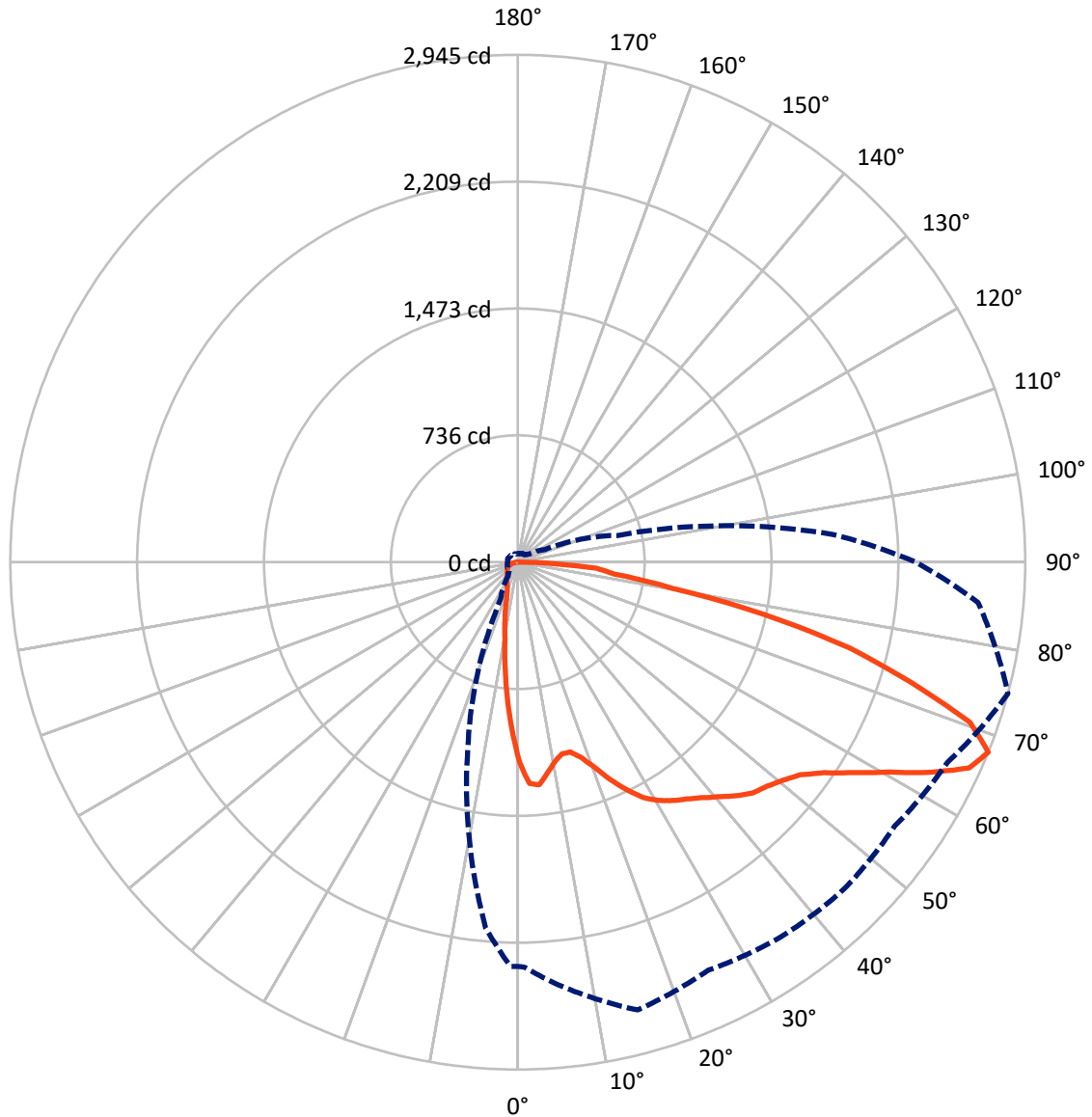
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P458526
CATALOG NUMBER: GALN-SA1A-735-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P458526

CATALOG NUMBER: GALN-SA1A-735-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.1	0.0	628.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	3087.9	0.0	3087.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	3716.0	0.0	3716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	2.4
10°-20°	183.6	4.9
20°-30°	264.3	7.1
30°-40°	380.6	10.2
40°-50°	534.7	14.4
50°-60°	745.7	20.1
60°-70°	886.6	23.9
70°-80°	522.1	14.1
80°-90°	110.4	3.0
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°	3716.0	100.0
0°-180°	3716.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458526

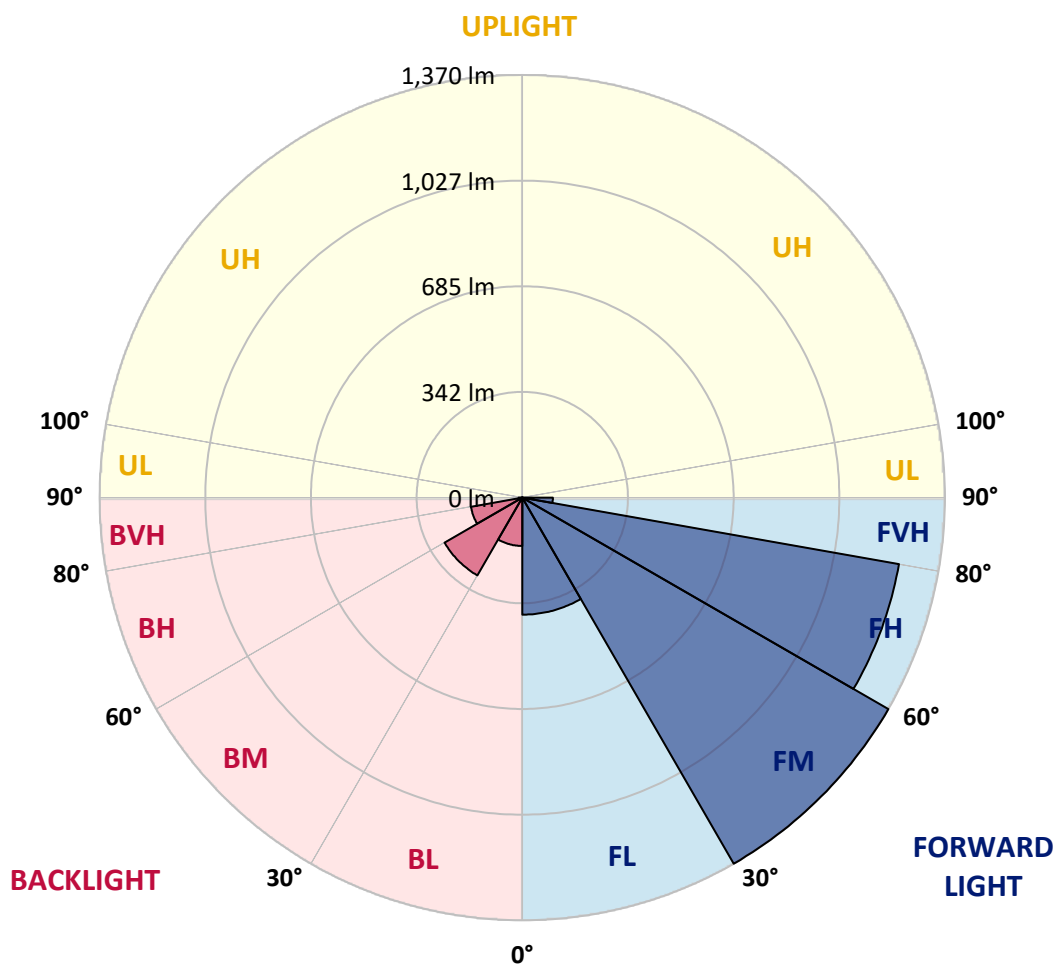
CATALOG NUMBER: GALN-SA1A-735-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	379.3	10.2			
FM	(30°-60°)	1370.0	36.9			
FH	(60°-80°)	1239.7	33.4			G1/1800
FVH	(80°-90°)	99.0	2.7			G1/100
BL	(0°-30°)	156.7	4.2	B1/500		
BM	(30°-60°)	291.0	7.8	B1/1000		
BH	(60°-80°)	169.0	4.5	B1/500		G1/500
BVH	(80°-90°)	11.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P458526

CATALOG NUMBER: GALN-SA1A-735-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	1251.8	1253.4	1264.1	1295.4	1316.8	1324.7	1330.2	1319.9	1309.9	1285.6	1248.9
5°	1247.9	1257.7	1285.6	1355.7	1410.9	1434.8	1441.9	1411.2	1360.4	1298.0	1222.9
7.5°	1175.0	1188.1	1231.0	1348.5	1446.0	1501.7	1494.3	1438.8	1347.3	1236.0	1131.2
10°	1088.5	1103.1	1154.8	1296.8	1422.4	1499.1	1499.1	1431.4	1309.9	1177.6	1056.8
12.5°	1019.9	1035.1	1094.2	1243.7	1373.3	1446.0	1458.1	1400.0	1283.0	1140.7	1008.0
15°	997.3	1012.0	1075.7	1211.5	1321.3	1365.7	1369.7	1350.6	1269.9	1143.3	1005.8
17.5°	1025.4	1044.4	1108.8	1221.0	1273.7	1276.3	1279.4	1294.4	1271.3	1191.2	1049.2
20°	1106.6	1127.1	1194.3	1251.8	1232.0	1204.8	1206.5	1245.1	1288.2	1270.3	1152.9
22.5°	1223.9	1241.7	1310.6	1305.8	1214.3	1158.3	1146.7	1200.5	1313.2	1369.0	1263.2
25°	1350.4	1371.4	1450.5	1386.2	1219.3	1130.7	1123.3	1174.3	1339.2	1461.2	1390.7
27.5°	1495.3	1515.8	1578.2	1467.2	1245.6	1128.6	1119.7	1171.9	1362.6	1546.5	1512.4
30°	1603.0	1621.8	1664.2	1535.3	1277.7	1142.9	1131.9	1190.8	1382.6	1604.9	1631.1
32.5°	1687.6	1707.1	1730.2	1577.7	1320.1	1168.8	1148.6	1225.1	1408.8	1649.5	1719.0
35°	1775.8	1798.9	1797.2	1615.4	1359.7	1198.9	1179.1	1274.6	1450.0	1688.3	1830.6
37.5°	1887.5	1896.8	1884.9	1649.2	1407.1	1252.9	1242.0	1348.3	1508.6	1735.3	1960.9
40°	2001.0	2019.5	1958.3	1690.2	1464.8	1354.7	1353.5	1457.2	1578.2	1790.3	2087.2
42.5°	2098.2	2113.9	2026.9	1726.0	1534.6	1478.8	1487.9	1603.2	1669.5	1854.2	2188.7
45°	2171.3	2185.4	2090.3	1760.5	1626.6	1622.3	1675.7	1759.8	1784.6	1911.6	2248.3
47.5°	2233.5	2247.1	2134.4	1812.9	1740.3	1793.6	1886.6	1923.0	1883.0	1944.5	2315.0
50°	2286.0	2290.0	2164.7	1875.4	1881.3	2003.6	2093.6	2117.2	1980.2	1991.7	2372.9
52.5°	2340.5	2335.3	2216.8	1954.0	2033.8	2202.8	2268.3	2292.9	2073.4	2049.8	2457.3
55°	2462.8	2467.8	2333.8	2053.1	2188.0	2398.4	2484.7	2461.1	2176.6	2156.8	2564.5
57.5°	2610.5	2606.2	2498.5	2208.3	2345.0	2580.5	2644.8	2606.9	2314.3	2303.8	2673.2
60°	2667.9	2673.7	2636.2	2375.1	2499.9	2739.9	2805.7	2746.8	2479.4	2474.7	2755.2
62.5°	2610.3	2642.4	2667.7	2523.5	2632.0	2857.1	2922.4	2855.2	2651.7	2686.3	2812.6
65°	2495.4	2502.3	2588.3	2649.3	2695.6	2876.4	2910.5	2874.8	2795.7	2879.1	2810.0
67.5°	2346.2	2352.2	2453.0	2690.6	2613.6	2657.2	2681.0	2670.6	2751.1	2945.1	2680.6
70°	2204.2	2199.4	2306.0	2585.5	2275.2	2209.0	2228.8	2195.9	2373.9	2783.7	2426.8
72.5°	1927.8	1945.0	2059.3	2293.3	1801.5	1693.8	1736.9	1651.9	1825.8	2384.1	1969.7
75°	1510.1	1514.1	1705.0	1924.7	1359.0	1189.1	1247.5	1212.0	1398.5	1988.8	1360.2
77.5°	1045.6	1036.6	1241.7	1470.0	969.1	870.5	871.4	854.5	976.5	1464.3	924.1
80°	664.1	650.3	777.3	908.1	666.0	712.5	689.1	688.4	635.8	903.4	558.8
82.5°	358.9	374.1	491.1	569.3	477.8	550.7	504.7	489.9	436.3	565.5	357.4
85°	163.5	177.8	261.9	387.2	362.9	367.0	245.2	289.3	361.0	459.2	190.9
87.5°	16.0	20.5	54.1	182.8	123.9	97.7	36.5	70.3	90.8	163.2	15.3
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: P458526
 CATALOG NUMBER: GALN-SA1A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	1233.9	1221.5	1179.3	1144.5	1107.6	1079.5	1042.8	1018.2	1001.3	975.8	972.7
5°	1177.2	1146.9	1073.5	998.7	934.1	885.5	836.2	790.9	764.2	755.9	745.1
7.5°	1081.6	1030.6	936.3	850.5	776.4	703.9	648.2	608.6	582.2	566.7	548.1
10°	1003.0	943.9	829.0	723.9	662.9	617.9	568.8	526.4	493.7	465.9	450.6
12.5°	950.1	883.4	754.2	668.9	621.7	573.8	516.4	468.7	420.6	388.9	375.3
15°	934.1	863.6	731.1	641.5	573.8	511.1	446.8	384.6	336.9	306.9	296.9
17.5°	973.2	887.9	730.8	605.0	517.6	442.7	360.3	301.9	253.1	230.7	223.5
20°	1046.1	934.6	733.0	569.0	456.6	351.2	262.1	214.2	190.9	181.3	177.8
22.5°	1147.9	1005.8	739.4	533.5	389.8	269.7	196.4	172.0	163.7	162.0	161.3
25°	1273.2	1094.0	761.1	501.6	333.6	205.9	164.2	153.2	148.5	146.8	146.6
27.5°	1388.5	1207.9	787.3	474.2	279.3	177.5	148.5	139.2	134.4	134.2	134.6
30°	1492.7	1303.2	809.2	443.5	238.1	157.8	138.2	128.9	124.4	124.2	125.6
32.5°	1582.7	1381.6	825.4	413.2	215.2	145.6	128.9	118.9	115.1	114.4	115.1
35°	1679.0	1459.8	818.1	389.6	202.1	135.6	122.0	112.2	107.7	105.6	105.6
37.5°	1788.9	1540.3	805.4	370.1	196.1	127.2	116.0	106.5	102.0	99.8	99.6
40°	1908.7	1620.9	788.0	352.7	190.2	122.2	112.0	102.0	96.5	94.4	93.9
42.5°	2014.5	1689.7	773.7	341.2	180.4	123.2	108.4	98.7	91.7	88.9	88.6
45°	2106.5	1759.1	771.1	334.6	172.3	121.8	107.5	96.0	87.9	84.8	84.4
47.5°	2178.5	1831.3	786.1	330.8	163.5	114.1	113.7	94.4	84.6	81.3	80.8
50°	2266.2	1933.8	820.4	322.9	155.4	107.0	120.1	94.1	82.0	77.7	76.5
52.5°	2382.9	2067.2	866.9	308.8	143.7	100.3	114.6	94.1	78.9	74.6	73.2
55°	2559.5	2237.3	912.4	289.1	127.2	91.5	103.4	91.3	74.3	70.5	69.6
57.5°	2676.5	2361.7	941.5	261.6	106.8	85.1	89.1	86.7	69.8	65.8	65.8
60°	2682.5	2395.1	927.7	227.1	93.9	79.1	77.4	87.5	65.8	61.5	61.0
62.5°	2613.8	2313.4	855.7	196.1	87.0	72.7	70.1	76.7	61.7	57.4	56.7
65°	2506.6	2104.8	730.8	181.3	83.2	67.0	63.1	62.9	57.4	53.4	52.4
67.5°	2309.5	1839.4	600.5	172.8	81.3	60.5	57.0	55.8	52.4	49.1	48.6
70°	2019.1	1540.6	481.6	169.2	80.3	53.9	51.0	49.6	46.7	44.1	43.8
72.5°	1570.8	1249.6	397.5	166.8	79.8	47.7	44.6	42.7	41.0	38.6	38.6
75°	1128.3	919.3	303.3	150.4	73.9	41.0	37.7	36.5	34.1	32.2	32.6
77.5°	711.3	619.1	199.7	110.6	57.2	32.9	30.0	29.3	27.4	24.8	26.5
80°	480.4	435.4	116.5	69.6	36.0	24.1	23.1	22.9	20.7	17.9	18.1
82.5°	326.9	320.7	60.5	39.6	20.7	14.1	13.6	14.1	11.7	9.5	9.5
85°	127.7	174.4	28.6	15.5	6.7	2.1	3.1	3.3	1.9	1.0	1.2
87.5°	2.4	17.9	0.7	0.0	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: P458526
 CATALOG NUMBER: GALN-SA1A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	967.9	965.8	969.4	954.1	957.2	962.9	965.8	967.5	991.1	985.6	1000.6
5°	755.2	753.0	766.8	768.7	775.9	774.5	781.4	783.0	791.6	794.7	815.7
7.5°	549.3	558.6	574.3	582.4	594.5	598.4	594.8	603.6	585.7	598.6	602.4
10°	441.3	430.1	423.4	442.0	444.4	462.1	454.9	449.2	459.7	460.1	470.2
12.5°	367.4	343.4	327.4	332.7	338.4	346.0	347.2	358.6	366.3	373.4	379.4
15°	288.1	279.8	265.2	258.1	266.2	269.3	276.7	286.2	294.3	296.4	304.5
17.5°	221.1	222.6	220.2	215.9	220.9	223.3	223.8	224.0	226.1	224.7	236.6
20°	178.0	183.0	189.0	189.9	191.6	192.8	190.6	182.5	182.8	187.8	191.6
22.5°	161.1	162.0	168.7	170.9	176.1	174.0	167.8	163.9	163.5	164.7	166.6
25°	147.7	149.2	153.9	157.3	161.3	157.5	153.0	149.4	148.9	150.1	152.0
27.5°	135.8	138.0	142.3	145.6	149.4	145.8	141.5	138.4	138.2	138.0	139.2
30°	126.3	128.7	131.8	135.6	138.2	135.1	131.1	129.4	129.2	128.7	129.2
32.5°	116.8	120.6	123.7	125.6	128.2	125.8	122.7	121.8	120.1	118.7	118.0
35°	106.0	110.1	114.9	117.2	119.9	117.5	115.3	111.3	108.4	108.2	108.7
37.5°	99.8	101.5	105.3	109.4	112.0	110.8	106.8	102.7	102.0	102.0	102.5
40°	94.4	95.1	96.7	102.0	106.8	103.2	98.2	97.0	97.0	96.7	97.0
42.5°	88.9	89.6	89.6	93.6	101.3	95.6	91.7	91.7	91.7	92.0	92.7
45°	83.9	84.1	83.9	86.7	93.9	89.1	86.5	87.2	87.7	88.2	88.6
47.5°	79.6	79.8	79.6	82.0	85.5	83.6	82.2	83.2	84.1	84.8	85.3
50°	75.8	75.5	76.0	77.4	79.1	79.6	78.6	80.1	80.5	81.5	82.7
52.5°	72.4	72.2	72.7	73.4	75.8	75.8	75.8	77.0	77.9	78.9	80.5
55°	68.6	68.9	69.6	70.5	73.6	73.2	73.4	74.3	75.3	76.7	77.7
57.5°	65.1	65.5	66.5	67.9	71.0	70.8	71.0	71.5	72.7	73.4	74.3
60°	61.0	62.0	63.1	64.1	67.2	67.0	68.2	69.1	69.8	69.8	70.3
62.5°	57.0	58.4	59.6	60.3	63.6	63.9	65.5	66.2	66.7	66.2	67.0
65°	52.9	55.0	55.5	56.5	59.8	60.0	62.0	63.6	63.1	62.7	63.9
67.5°	48.9	51.5	51.2	52.4	55.8	56.2	57.9	60.8	59.8	59.3	60.3
70°	44.3	46.2	46.5	47.2	51.7	51.0	53.6	56.2	55.5	55.8	55.8
72.5°	39.3	41.0	41.0	42.4	47.2	46.0	48.1	51.0	51.0	50.8	50.8
75°	33.4	34.3	35.3	37.4	42.4	41.0	42.4	45.0	45.5	45.0	45.0
77.5°	26.9	28.4	28.8	31.7	35.3	35.0	36.5	37.7	38.6	38.1	38.1
80°	19.1	20.5	22.4	25.5	27.6	28.4	29.1	30.0	30.5	30.5	31.0
82.5°	10.7	12.9	14.5	17.6	18.6	22.2	21.9	22.6	21.9	19.3	21.4
85°	2.4	4.5	6.4	8.1	9.3	12.9	13.6	15.3	12.6	11.7	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.9	3.8	5.2	4.5	3.8	3.8
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: P458526
 CATALOG NUMBER: GALN-SA1A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	1013.2	1034.0	1059.0	1102.1	1132.4	1165.0	1197.9	1232.9	1242.2	1251.8
5°	821.4	862.1	884.3	942.2	1003.0	1080.2	1143.3	1212.4	1241.3	1247.9
7.5°	622.2	649.8	708.0	766.6	841.9	922.9	1019.7	1127.4	1161.0	1175.0
10°	493.3	530.9	581.9	644.8	710.8	798.0	907.2	1033.0	1080.7	1088.5
12.5°	419.9	461.8	517.3	583.8	646.3	712.0	822.1	952.0	1003.0	1019.9
15°	335.8	386.5	450.6	520.7	588.6	660.5	772.1	918.6	977.5	997.3
17.5°	263.8	304.8	374.1	450.1	530.7	621.7	761.6	934.6	1007.0	1025.4
20°	201.8	231.1	289.5	369.8	464.2	583.3	764.2	994.9	1081.6	1106.6
22.5°	174.4	189.4	224.9	301.4	407.0	550.0	774.9	1077.6	1182.2	1223.9
25°	158.0	165.9	185.9	235.9	352.4	517.6	799.5	1188.8	1322.8	1350.4
27.5°	143.9	149.6	162.0	198.0	302.9	487.5	828.1	1312.3	1454.1	1495.3
30°	130.6	138.2	149.9	175.9	271.2	460.1	864.1	1412.4	1564.6	1603.0
32.5°	120.3	128.0	138.7	160.4	244.3	431.3	885.5	1500.3	1654.9	1687.6
35°	112.0	118.4	129.6	148.0	223.8	409.4	881.2	1570.1	1742.4	1775.8
37.5°	106.0	111.5	122.7	136.3	208.3	386.5	879.1	1662.3	1848.9	1887.5
40°	100.6	106.3	116.5	128.7	192.8	359.6	880.3	1753.8	1962.3	2001.0
42.5°	96.3	102.7	111.0	126.5	176.8	337.9	880.3	1833.4	2061.0	2098.2
45°	92.7	99.6	107.7	126.3	164.2	321.5	874.3	1901.8	2139.6	2171.3
47.5°	89.6	97.2	108.9	122.0	161.1	309.5	869.1	1956.6	2203.7	2233.5
50°	87.5	96.5	115.8	117.0	162.0	306.0	894.3	2025.7	2260.2	2286.0
52.5°	85.8	96.7	115.6	109.6	160.4	308.4	947.0	2133.7	2338.6	2340.5
55°	82.4	96.5	109.6	101.3	153.5	312.4	1014.7	2290.5	2461.3	2462.8
57.5°	79.1	93.9	101.8	94.1	139.4	312.4	1096.2	2438.9	2609.3	2610.5
60°	75.8	97.7	89.4	87.9	121.1	306.7	1182.2	2504.2	2655.8	2667.9
62.5°	72.4	98.4	79.8	82.4	107.7	292.9	1246.3	2432.0	2592.9	2610.3
65°	68.6	79.4	73.6	76.7	100.8	269.7	1226.0	2299.8	2474.7	2495.4
67.5°	64.1	67.2	67.0	70.8	98.4	235.7	1119.3	2132.5	2347.4	2346.2
70°	58.6	60.3	61.0	65.1	93.9	209.2	932.7	1915.4	2177.5	2204.2
72.5°	52.9	54.3	55.0	58.6	89.4	194.2	723.9	1616.3	1886.1	1927.8
75°	46.7	47.7	48.6	51.7	84.6	172.0	515.7	1233.9	1444.5	1510.1
77.5°	40.3	40.3	41.5	44.6	71.2	142.0	346.0	865.5	978.7	1045.6
80°	32.6	32.9	32.4	35.7	52.4	97.2	196.6	578.1	651.3	664.1
82.5°	25.0	24.3	24.5	26.2	39.1	66.2	104.8	359.1	366.0	358.9
85°	15.7	15.7	15.3	17.2	25.0	34.6	57.2	219.9	171.8	163.5
87.5°	6.4	5.2	6.0	6.9	11.9	14.1	22.4	45.3	17.4	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)