

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: P458525

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3096 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

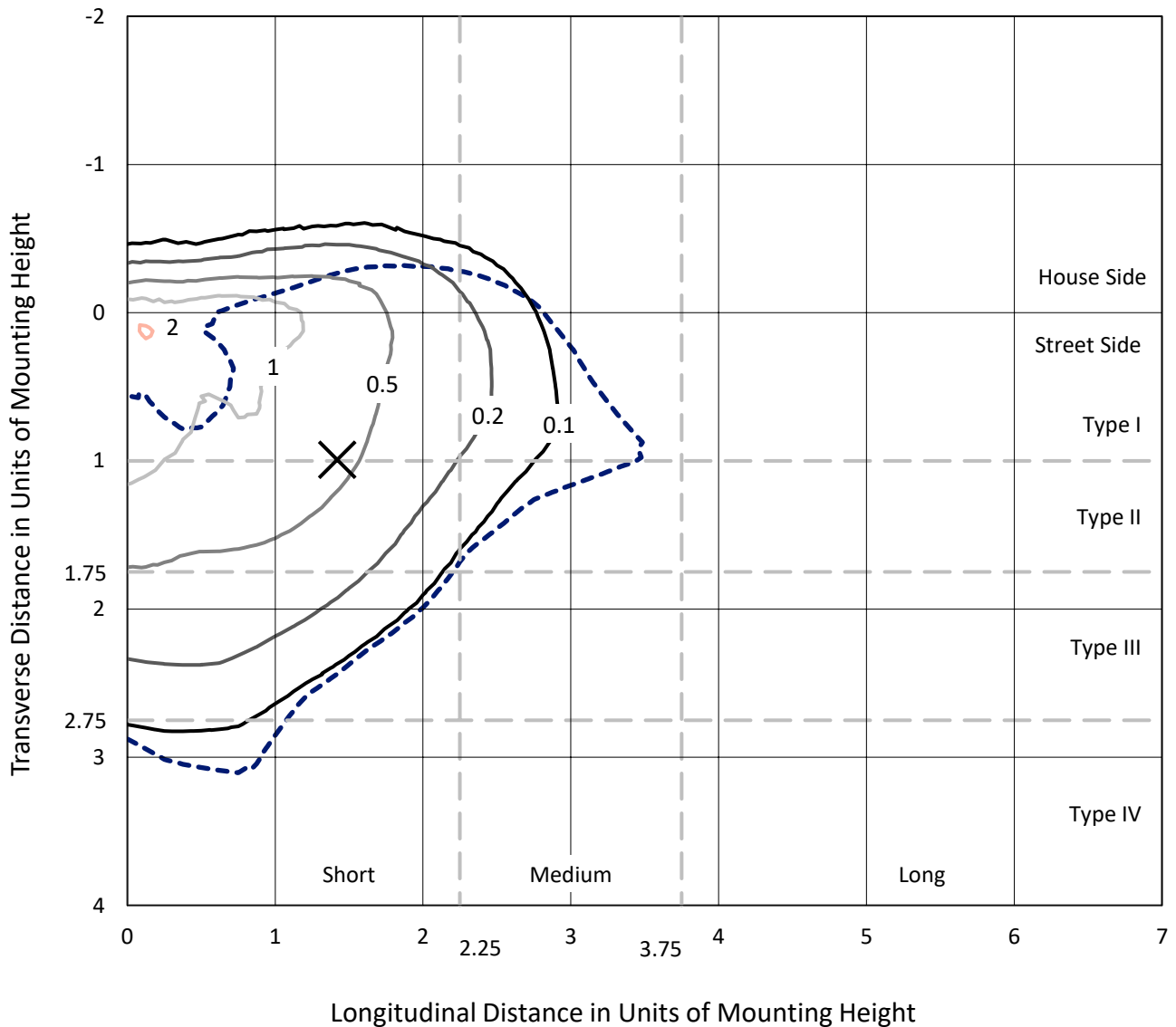
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458525  
 CATALOG NUMBER: GALN-SA1A-735-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

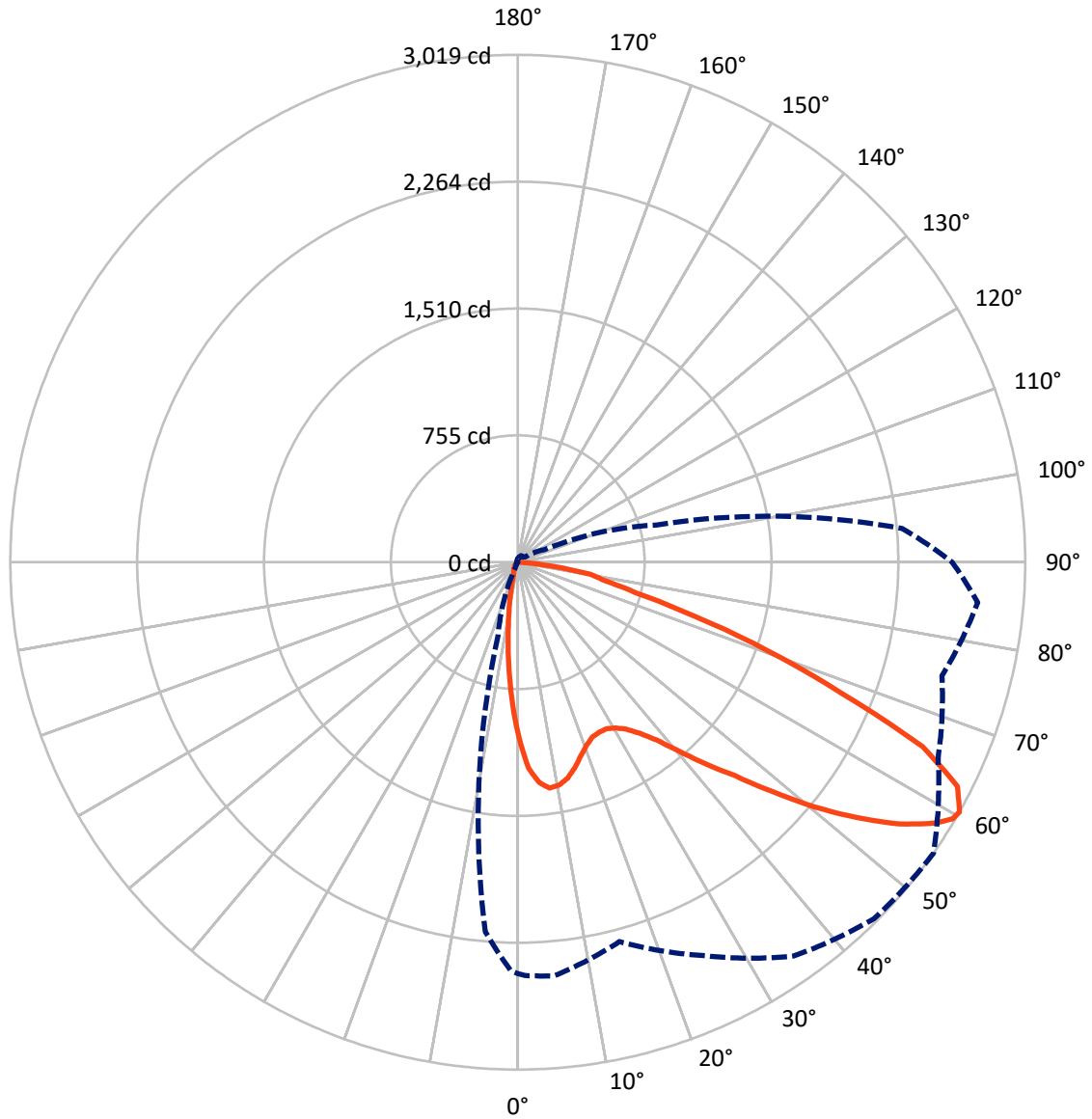
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P458525  
CATALOG NUMBER: GALN-SA1A-735-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P458525  
 CATALOG NUMBER: GALN-SA1A-735-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	459.5	0.0	459.5
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	2636.5	0.0	2636.5
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	3096.0	0.0	3096.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	2.5
10°-20°	152.9	4.9
20°-30°	226.3	7.3
30°-40°	337.3	10.9
40°-50°	494.0	16.0
50°-60°	713.1	23.0
60°-70°	750.2	24.2
70°-80°	308.6	10.0
80°-90°	36.1	1.2
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°	3096.0	100.0
0°-180°	3096.0	100.0

**Coefficient of Utilization**

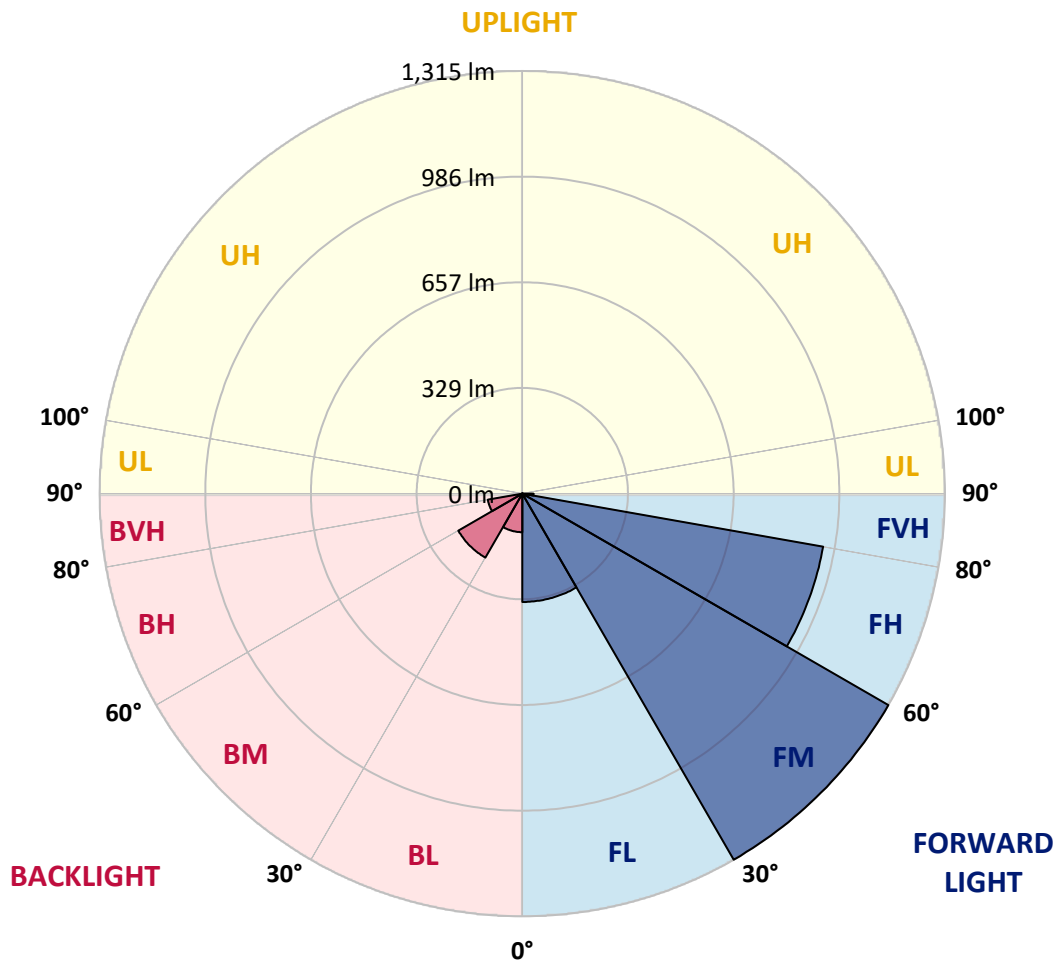


REPORT NUMBER: P458525  
 CATALOG NUMBER: GALN-SA1A-735-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.9	10.9			
FM (30°-60°)	1314.6	42.5			
FH (60°-80°)	950.0	30.7			G1/1800
FVH (80°-90°)	35.1	1.1			G1/100
BL (0°-30°)	119.9	3.9	B1/500		
BM (30°-60°)	229.8	7.4	B1/1000		
BH (60°-80°)	108.7	3.5	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			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 III Short





REPORT NUMBER: P458525

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

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	1145.3	1143.4	1160.3	1187.9	1215.8	1230.4	1227.5	1226.3	1203.2	1186.3	1150.8
5°	1142.9	1152.7	1182.9	1257.8	1314.5	1341.9	1350.0	1315.9	1270.9	1205.6	1125.0
7.5°	1074.5	1086.7	1136.0	1253.0	1353.8	1413.4	1411.2	1356.7	1263.7	1162.7	1047.8
10°	989.7	1004.0	1061.9	1203.9	1334.7	1413.4	1417.7	1348.6	1233.0	1103.3	982.5
12.5°	929.9	946.8	1010.9	1158.2	1285.6	1363.1	1368.1	1318.1	1209.9	1080.5	947.0
15°	909.6	925.6	990.6	1135.0	1233.5	1275.2	1274.0	1268.7	1200.8	1085.9	948.9
17.5°	944.4	957.5	1030.9	1145.5	1184.6	1180.3	1186.5	1211.8	1202.7	1131.9	1009.0
20°	1034.2	1047.6	1126.5	1177.7	1147.2	1120.0	1122.9	1165.1	1220.4	1218.4	1102.9
22.5°	1157.9	1180.6	1252.0	1240.1	1142.2	1082.6	1076.7	1131.5	1250.4	1318.1	1229.6
25°	1314.5	1337.4	1393.1	1339.7	1166.7	1073.8	1068.3	1121.2	1286.8	1415.3	1372.4
27.5°	1446.0	1463.4	1518.9	1436.7	1203.0	1077.6	1068.6	1122.6	1316.4	1498.0	1492.7
30°	1551.4	1564.2	1596.9	1482.0	1234.2	1094.3	1083.8	1143.6	1329.5	1538.2	1590.2
32.5°	1636.2	1657.9	1668.1	1530.4	1279.0	1125.7	1107.9	1183.9	1361.4	1588.1	1692.4
35°	1733.2	1758.2	1745.1	1576.6	1338.1	1174.8	1152.9	1249.2	1409.8	1634.0	1811.1
37.5°	1856.1	1885.0	1833.7	1625.2	1400.5	1248.7	1238.5	1340.9	1483.2	1699.8	1938.4
40°	1983.4	2000.1	1919.8	1684.3	1477.2	1356.2	1366.0	1477.2	1579.2	1778.7	2073.7
42.5°	2082.8	2098.5	2008.2	1733.9	1555.6	1483.7	1524.4	1641.7	1689.3	1859.5	2174.8
45°	2158.8	2172.1	2069.4	1788.0	1661.5	1668.4	1745.3	1811.1	1799.7	1908.8	2252.7
47.5°	2217.9	2229.3	2116.6	1846.1	1819.9	1894.3	2012.0	2039.9	1914.1	1962.2	2323.2
50°	2242.2	2245.5	2131.4	1920.2	1999.8	2182.1	2304.9	2288.0	2045.1	2021.5	2398.3
52.5°	2273.9	2273.2	2173.6	1990.8	2169.0	2439.5	2562.0	2523.6	2193.3	2110.4	2482.6
55°	2357.1	2358.0	2263.9	2090.9	2313.2	2647.3	2778.4	2750.5	2349.7	2260.5	2581.1
57.5°	2458.1	2461.7	2392.3	2207.9	2451.0	2797.9	2940.0	2929.2	2561.0	2427.6	2674.0
59°	2471.2	2478.4	2453.1	2290.3	2532.7	2844.2	2995.2	3005.7	2674.2	2537.7	2724.3
60°	2447.4	2459.3	2470.7	2337.0	2580.6	2860.8	2998.6	3019.1	2759.3	2612.5	2747.2
62.5°	2343.5	2362.3	2419.7	2480.7	2640.4	2808.9	2892.1	2934.9	2864.6	2809.1	2749.3
65°	2207.4	2217.2	2300.1	2506.2	2524.3	2566.3	2592.0	2647.1	2738.1	2884.9	2650.9
67.5°	1984.4	2013.2	2114.7	2358.3	2181.9	2132.3	2125.9	2071.1	2307.5	2704.3	2408.3
70°	1639.3	1652.2	1777.3	1933.4	1646.7	1570.4	1600.9	1580.4	1788.7	2328.0	1938.4
72.5°	1239.7	1268.7	1391.0	1541.1	1120.5	1021.6	1105.7	1098.1	1343.6	1870.9	1331.6
75°	882.0	900.8	1056.6	1206.1	784.7	664.9	695.1	723.5	938.0	1477.2	786.9
77.5°	606.0	622.2	739.2	797.6	572.4	548.3	501.6	529.0	614.6	876.5	428.2
80°	365.6	364.8	441.8	456.1	398.7	463.0	388.4	436.1	371.5	375.1	165.9
82.5°	237.4	235.0	270.2	294.5	221.9	233.3	156.6	225.7	242.1	104.6	52.4
85°	106.3	110.8	129.9	171.3	97.2	51.7	31.9	69.3	103.2	52.7	0.0
87.5°	11.0	8.6	22.9	41.7	13.3	1.4	4.8	2.4	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: P458525

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	1134.3	1120.5	1079.3	1040.7	1007.5	967.0	940.8	899.6	874.6	866.9	868.1
5°	1088.8	1049.0	970.6	907.9	838.1	798.3	737.8	679.6	648.2	636.5	631.3
7.5°	993.5	950.8	856.2	757.8	683.0	613.2	568.1	516.9	481.8	453.0	448.0
10°	922.7	866.7	749.5	643.7	584.6	532.1	487.1	435.9	394.6	361.7	352.7
12.5°	880.3	817.6	686.8	598.1	542.1	488.3	429.7	370.3	328.1	292.6	276.2
15°	872.7	800.0	669.2	565.5	496.4	431.3	353.4	289.3	245.9	212.3	202.1
17.5°	918.7	831.7	666.5	531.4	436.6	344.3	263.3	210.2	161.3	142.5	135.1
20°	1000.6	887.7	666.3	491.9	375.1	265.2	184.9	137.0	117.2	108.2	103.9
22.5°	1112.4	963.9	678.9	457.8	311.2	195.6	132.0	109.1	97.7	90.3	88.6
25°	1248.9	1076.9	709.9	434.7	262.4	153.5	108.9	93.4	83.9	80.5	79.1
27.5°	1370.2	1185.1	744.0	410.8	227.3	135.8	101.0	85.6	77.9	75.3	73.2
30°	1474.9	1283.3	760.4	379.4	199.2	124.4	102.5	91.5	81.5	73.6	70.1
32.5°	1562.1	1358.6	771.2	350.8	175.4	101.8	81.0	70.8	66.2	63.4	61.0
35°	1671.2	1440.1	764.7	334.6	163.2	92.7	73.9	61.0	53.4	47.7	45.3
37.5°	1785.6	1521.6	753.5	321.2	157.8	86.0	70.3	57.9	49.6	43.6	40.5
40°	1904.0	1597.1	740.4	308.8	152.8	81.7	68.2	55.3	46.9	40.5	37.2
42.5°	2012.5	1670.7	735.2	300.7	144.7	82.5	66.5	54.1	44.3	37.7	34.8
45°	2100.2	1740.6	742.3	296.4	135.8	81.3	67.0	52.7	42.2	35.7	32.9
47.5°	2193.8	1839.2	765.4	292.2	127.3	75.5	70.5	52.4	41.2	34.6	31.5
50°	2302.7	1965.5	818.3	281.7	116.8	69.3	75.1	52.2	40.0	33.1	30.0
52.5°	2447.9	2109.0	872.9	263.3	101.5	63.4	71.7	51.5	37.7	31.5	28.4
55°	2578.2	2260.1	919.1	241.6	82.2	54.8	64.6	48.4	33.6	28.6	25.7
57.5°	2632.1	2345.4	917.7	211.6	65.8	48.1	53.1	44.3	29.3	25.3	22.9
59°	2612.3	2334.7	887.0	189.5	60.1	44.6	44.1	43.8	27.4	22.9	21.0
60°	2584.4	2295.6	853.8	178.5	56.5	42.2	40.5	43.4	25.7	21.4	19.5
62.5°	2477.6	2133.5	744.0	159.9	51.7	35.7	32.4	36.7	22.9	18.6	16.9
65°	2323.0	1884.5	629.8	154.7	50.3	29.5	26.9	26.2	19.5	15.7	14.3
67.5°	2021.3	1594.7	510.2	151.1	50.8	24.8	23.6	19.8	16.2	13.1	12.2
70°	1618.3	1243.5	417.7	147.0	51.2	20.3	19.8	15.7	13.1	11.0	10.0
72.5°	983.2	737.1	328.9	127.7	49.8	16.2	17.6	11.9	9.5	7.9	7.4
75°	607.9	504.5	204.0	99.4	32.9	11.9	12.4	7.4	6.4	5.0	5.0
77.5°	352.2	318.6	72.9	35.7	14.5	7.1	5.5	3.8	3.6	2.1	2.1
80°	146.1	117.0	25.3	12.2	7.9	3.3	1.2	0.2	0.0	0.0	0.0
82.5°	42.7	37.9	6.9	5.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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: P458525  
 CATALOG NUMBER: GALN-SA1A-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	847.9	840.0	836.4	848.6	837.4	851.7	840.7	845.5	859.6	865.8	881.7
5°	634.6	626.5	622.7	641.0	640.1	649.1	648.2	656.5	663.7	647.7	664.2
7.5°	442.1	436.6	445.6	459.9	475.2	470.2	470.2	459.0	462.8	460.4	459.7
10°	336.2	317.4	312.7	312.2	317.9	319.1	312.7	297.2	302.9	304.6	314.6
12.5°	264.5	250.0	227.8	217.8	215.2	217.3	196.1	182.5	189.0	185.2	194.9
15°	189.7	177.8	164.7	153.5	150.4	146.1	123.0	106.8	104.9	105.6	107.2
17.5°	135.4	127.3	127.3	115.3	108.9	96.0	84.4	77.2	76.5	77.2	78.4
20°	99.8	95.6	95.1	92.0	84.8	76.3	68.2	66.7	66.2	67.4	67.9
22.5°	86.0	81.5	77.7	77.4	70.8	63.6	59.8	57.9	58.1	58.6	59.8
25°	77.0	72.2	68.2	65.8	61.0	56.0	52.4	51.5	51.5	52.2	52.4
27.5°	70.5	64.6	61.0	57.7	53.4	49.1	46.0	45.3	44.8	45.3	46.5
30°	66.0	60.1	55.5	50.5	47.2	43.1	40.5	39.6	39.3	39.6	40.5
32.5°	56.5	52.9	49.3	44.8	40.7	38.1	35.3	33.6	33.6	34.1	35.0
35°	42.7	40.7	40.5	39.3	36.0	33.1	29.8	28.1	28.1	29.1	29.5
37.5°	37.7	34.1	33.6	33.1	31.7	27.9	24.8	23.4	23.1	23.8	24.8
40°	34.3	30.3	28.1	27.6	27.9	23.6	20.3	18.8	18.8	19.1	20.0
42.5°	31.7	26.9	23.1	22.6	23.6	19.8	16.4	15.0	15.0	15.0	16.2
45°	29.5	24.1	19.5	17.2	18.6	16.2	13.3	11.9	11.4	11.9	12.4
47.5°	28.1	21.9	17.2	13.8	13.8	12.9	10.7	9.1	8.6	8.8	9.5
50°	26.9	20.0	14.5	11.2	10.0	10.2	8.1	6.9	6.4	6.4	7.1
52.5°	25.0	18.1	12.6	9.5	7.6	6.9	6.0	5.0	4.8	5.0	5.5
55°	22.6	16.4	11.0	7.9	6.0	4.8	4.3	3.6	3.3	3.6	4.3
57.5°	20.0	13.8	8.8	6.2	4.1	3.1	2.9	2.4	1.9	2.1	2.6
59°	18.3	12.4	7.6	5.0	3.1	2.1	2.1	1.7	1.2	1.4	2.1
60°	17.6	11.4	6.4	4.3	2.6	1.7	1.7	1.2	0.7	1.0	1.7
62.5°	15.0	9.5	5.0	2.6	1.2	0.2	0.7	0.2	0.0	0.2	0.7
65°	12.6	7.6	3.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
67.5°	10.5	5.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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: P458525  
 CATALOG NUMBER: GALN-SA1A-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	882.7	916.8	937.7	977.3	1017.8	1049.0	1088.1	1123.1	1137.7	1145.3
5°	680.8	728.3	768.5	828.8	884.8	953.0	1022.1	1103.6	1134.8	1142.9
7.5°	477.8	526.2	568.4	638.2	718.0	809.3	912.7	1016.1	1061.6	1074.5
10°	345.1	396.8	448.2	518.1	592.7	691.6	799.3	927.2	979.7	989.7
12.5°	217.8	273.3	357.0	443.2	522.1	601.7	714.4	853.6	911.5	929.9
15°	126.3	167.8	230.9	343.4	443.7	549.1	672.0	826.0	890.8	909.6
17.5°	84.6	98.9	142.3	228.3	360.8	500.4	661.3	848.6	920.3	944.4
20°	71.3	77.7	92.9	139.2	277.9	457.1	664.2	910.1	1004.2	1034.2
22.5°	62.7	68.6	78.4	100.1	194.0	403.2	677.7	998.0	1119.5	1157.9
25°	55.3	61.2	69.8	82.9	130.4	341.0	707.5	1126.7	1272.3	1314.5
27.5°	49.1	54.6	62.0	73.2	100.3	271.7	734.0	1252.0	1411.7	1446.0
30°	43.4	47.9	55.0	63.6	83.4	209.5	747.3	1361.7	1513.2	1551.4
32.5°	37.7	41.9	48.9	55.8	68.6	159.7	738.0	1442.2	1611.9	1636.2
35°	32.2	36.7	42.4	48.9	59.3	128.9	691.6	1532.8	1714.1	1733.2
37.5°	27.6	31.5	37.4	42.4	53.6	103.2	635.3	1614.3	1828.7	1856.1
40°	23.4	27.2	33.1	37.7	49.3	81.3	584.6	1704.8	1949.6	1983.4
42.5°	19.1	23.6	28.8	36.2	42.4	62.0	523.1	1778.2	2040.4	2082.8
45°	15.3	20.3	26.0	36.0	36.9	47.2	463.7	1835.4	2120.7	2158.8
47.5°	12.2	17.2	25.0	33.6	30.3	37.4	429.9	1895.2	2187.4	2217.9
50°	9.8	14.3	26.2	29.5	25.3	31.7	428.9	1962.0	2221.9	2242.2
52.5°	7.9	11.7	22.2	22.6	21.4	27.9	454.7	2037.0	2257.2	2273.9
55°	6.7	9.8	14.5	16.7	19.3	25.3	474.0	2152.6	2341.3	2357.1
57.5°	5.2	8.3	11.2	13.3	17.2	23.1	476.6	2241.7	2447.9	2458.1
59°	4.5	7.1	10.0	11.9	15.7	21.7	465.9	2247.2	2454.8	2471.2
60°	3.8	6.4	8.8	11.2	14.5	20.5	454.2	2207.4	2429.0	2447.4
62.5°	2.9	5.0	6.4	9.1	11.9	17.6	398.9	2068.5	2330.6	2343.5
65°	1.9	3.6	4.8	6.7	9.3	15.3	325.0	1888.3	2178.6	2207.4
67.5°	1.2	2.6	3.8	5.0	7.6	12.9	231.6	1619.3	1965.8	1984.4
70°	0.7	1.7	2.9	4.1	6.0	10.2	137.5	1279.9	1635.5	1639.3
72.5°	0.5	1.2	1.9	2.9	4.8	9.3	66.7	834.3	1194.1	1239.7
75°	0.2	0.7	1.2	2.1	3.8	7.6	31.9	557.4	868.9	882.0
77.5°	0.0	0.2	0.7	1.4	2.9	6.0	18.6	366.0	592.4	606.0
80°	0.0	0.0	0.5	1.2	2.1	3.8	11.2	215.9	358.9	365.6
82.5°	0.0	0.0	0.2	1.0	1.4	2.9	5.7	94.8	235.0	237.4
85°	0.0	0.0	0.2	1.0	1.2	1.9	2.1	12.9	104.4	106.3
87.5°	0.0	0.0	0.2	1.2	1.2	1.2	1.2	0.7	8.8	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)