

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: P458643

Luminaire Tested: **GALN-SA2A-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6152 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

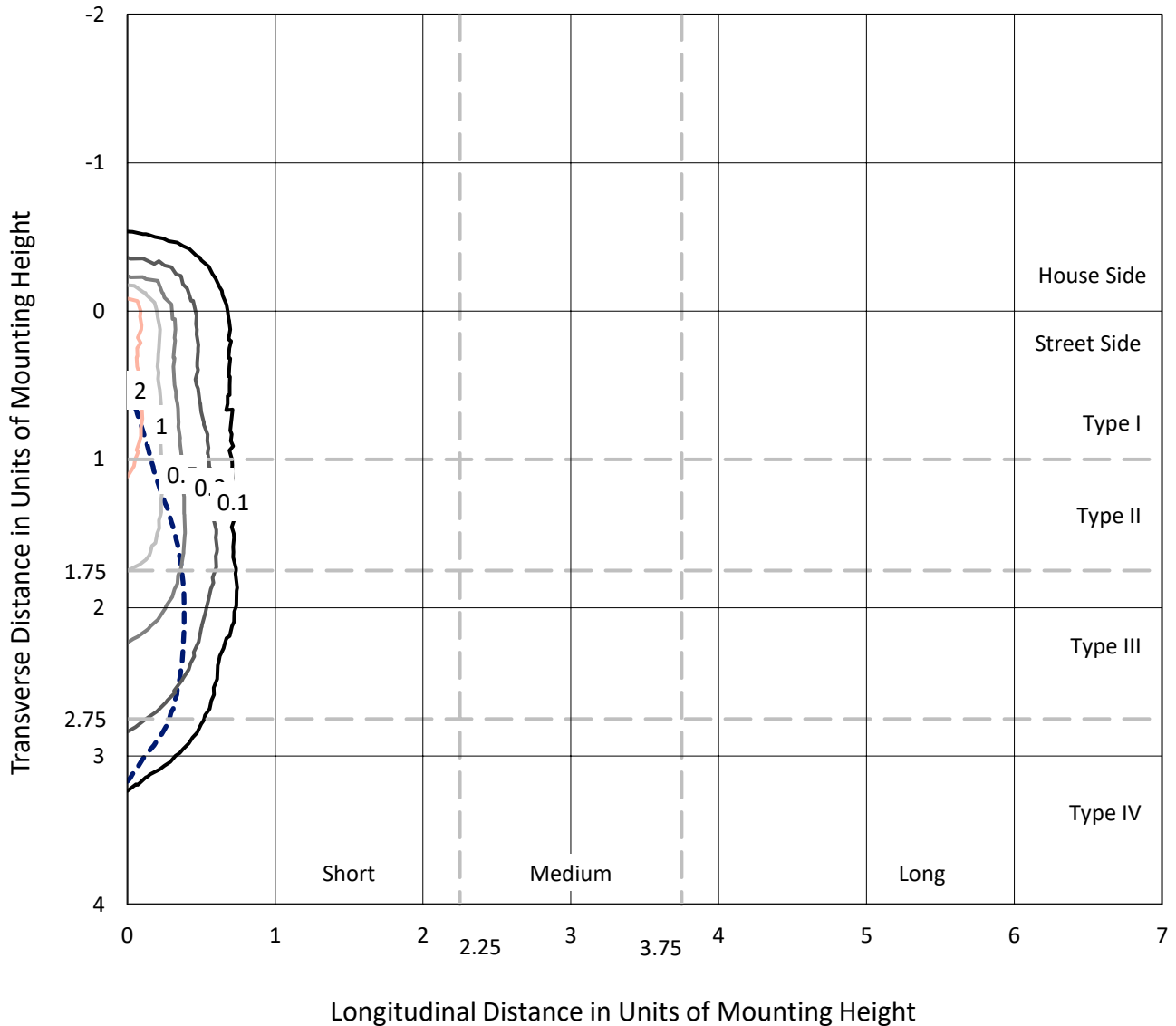
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458643
 CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

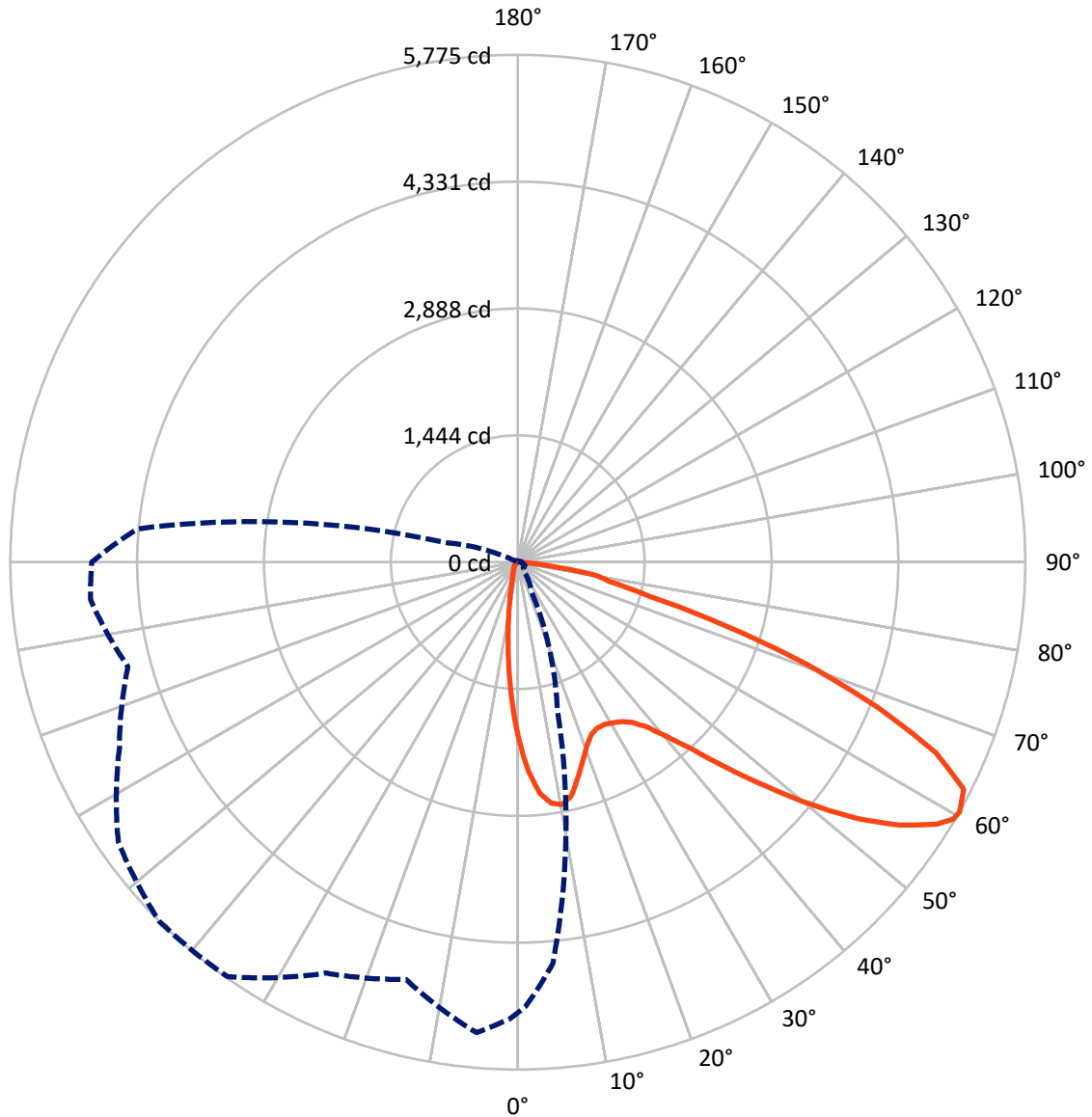
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P458643
CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P458643

CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

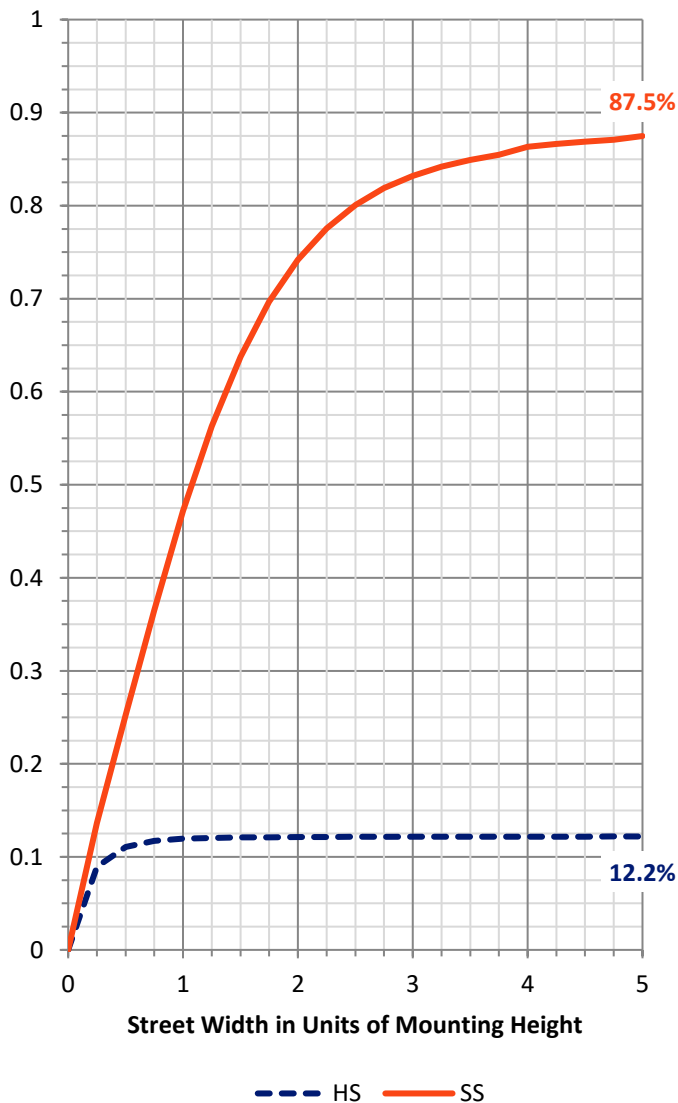
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	758.8	0.0	758.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5393.2	0.0	5393.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	6152.0	0.0	6152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	2.5
10°-20°	300.3	4.9
20°-30°	440.4	7.2
30°-40°	654.9	10.6
40°-50°	953.1	15.5
50°-60°	1374.5	22.3
60°-70°	1511.8	24.6
70°-80°	677.2	11.0
80°-90°	88.5	1.4
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°	6152.0	100.0
0°-180°	6152.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458643

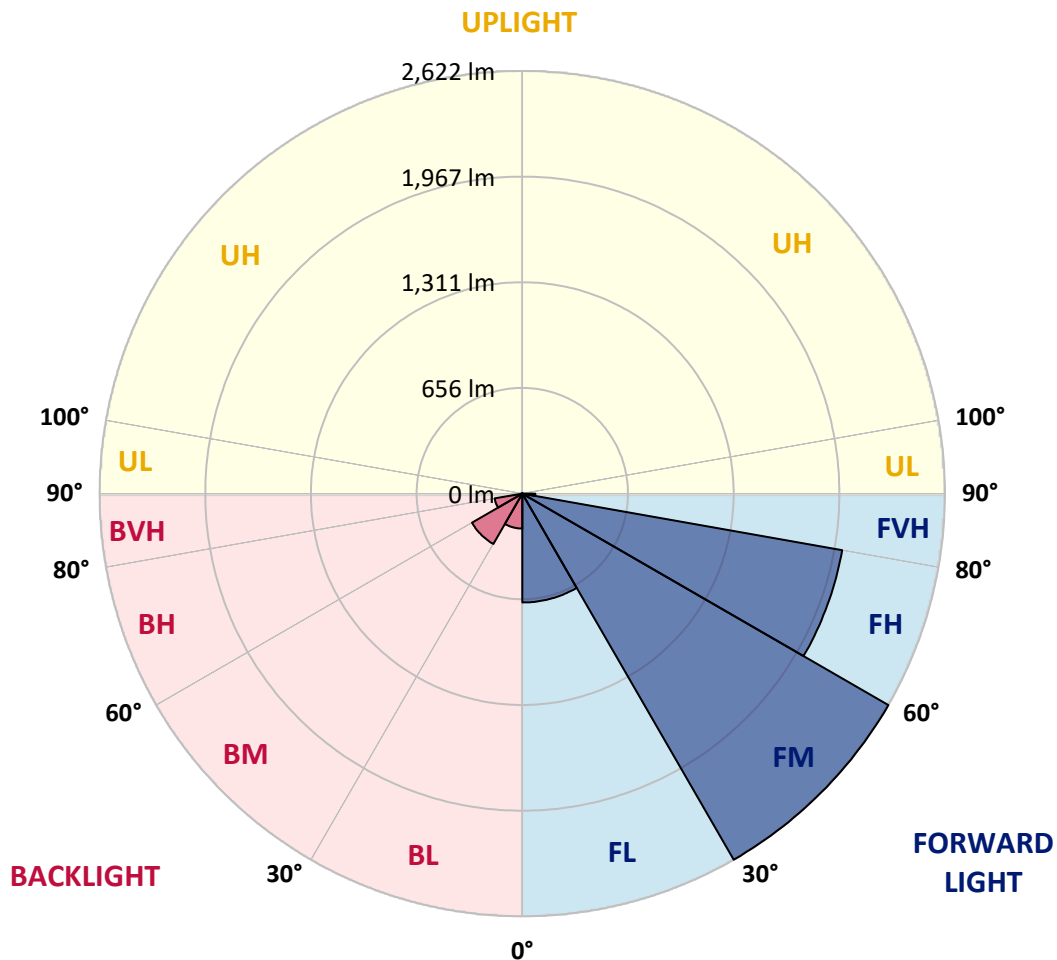
CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.2	11.0			
FM (30°-60°)	2622.2	42.6			
FH (60°-80°)	2015.0	32.8			G2/5000
FVH (80°-90°)	80.9	1.3			G1/100
BL (0°-30°)	216.8	3.5	B1/500		
BM (30°-60°)	360.4	5.9	B1/1000		
BH (60°-80°)	174.0	2.8	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
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: P458643

CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3
2.5°	2235.3	2225.5	2203.1	2134.8	2075.4	1997.8	1919.2	1857.5	1819.6	1749.9	1718.1
5°	2165.7	2170.3	2105.3	1965.0	1808.9	1702.2	1585.8	1493.2	1391.2	1326.7	1258.9
7.5°	1983.8	1974.4	1903.8	1708.3	1518.4	1364.1	1216.8	1097.1	1021.8	961.5	911.0
10°	1828.0	1821.0	1730.8	1479.2	1275.3	1159.8	1060.2	955.4	874.5	786.1	715.5
12.5°	1730.3	1714.4	1610.6	1347.8	1181.7	1074.2	965.7	856.7	745.0	655.6	570.1
15°	1697.6	1674.6	1559.1	1302.4	1121.9	985.3	849.2	723.9	595.3	496.6	432.1
17.5°	1756.9	1719.1	1596.1	1294.4	1050.3	869.4	701.9	538.7	405.0	329.7	289.9
20°	1893.0	1849.5	1689.6	1286.5	970.8	739.3	533.6	380.7	280.1	239.0	217.0
22.5°	2095.1	2035.2	1828.0	1299.1	897.4	612.6	385.3	268.9	222.6	196.9	181.4
25°	2337.8	2287.7	2003.4	1344.0	839.4	513.0	297.9	219.8	187.5	171.6	159.9
27.5°	2603.9	2523.9	2230.2	1397.8	786.6	435.8	261.4	196.4	166.9	152.5	146.4
30°	2793.2	2731.1	2420.1	1435.2	720.6	377.9	239.0	193.6	167.4	150.1	138.9
32.5°	2980.3	2900.8	2579.1	1452.5	672.5	337.6	206.7	168.8	146.8	138.0	126.7
35°	3180.5	3097.2	2737.6	1443.2	636.5	311.0	187.5	150.6	125.8	110.8	99.6
37.5°	3382.9	3295.0	2895.2	1409.5	614.0	300.2	172.6	143.1	118.8	103.3	91.2
40°	3623.3	3505.9	3043.0	1381.9	590.6	294.6	162.7	138.4	113.6	97.3	85.1
42.5°	3819.7	3708.0	3182.8	1367.4	574.7	281.5	162.7	134.7	110.4	92.1	79.5
45°	4005.9	3889.9	3333.8	1379.1	568.2	265.2	164.6	134.2	108.0	88.4	75.8
47.5°	4161.6	4061.0	3489.1	1423.0	559.8	247.4	154.8	140.8	106.6	85.1	72.0
50°	4345.4	4248.1	3694.4	1511.9	544.8	229.6	142.6	151.5	106.2	82.3	68.7
52.5°	4604.4	4499.2	3977.8	1612.9	521.0	202.5	131.4	150.1	104.3	77.6	65.5
55°	4921.0	4835.9	4306.1	1734.0	488.2	172.1	113.6	133.3	98.7	69.7	59.9
57.5°	5124.0	5051.5	4552.1	1786.4	438.2	140.8	100.1	111.8	90.3	62.2	53.3
59°	5147.8	5082.4	4603.5	1769.1	405.4	128.6	93.5	95.9	87.9	58.0	49.6
60°	5127.7	5059.9	4582.9	1735.4	375.1	120.2	87.9	85.1	88.4	55.6	46.8
62.5°	4998.7	4882.7	4383.2	1564.7	327.8	110.4	78.1	69.7	78.1	50.0	41.6
65°	4749.4	4575.4	3988.1	1324.4	309.1	104.8	66.4	58.5	59.4	44.0	36.0
67.5°	4314.0	4094.7	3462.0	1076.1	301.2	105.2	56.1	52.4	45.8	37.4	31.8
70°	3625.7	3406.8	2777.8	885.3	297.4	105.2	47.7	44.9	38.3	31.3	27.6
72.5°	2569.2	2333.6	1873.9	695.4	268.0	104.8	40.7	40.7	31.3	26.2	22.4
75°	1451.6	1453.4	1178.0	492.0	222.6	86.5	32.7	32.3	22.9	20.1	16.8
77.5°	846.0	831.0	794.1	211.4	103.3	39.3	22.9	19.6	15.9	14.5	12.2
80°	434.9	357.7	348.4	76.7	36.9	24.8	15.9	11.2	10.3	9.4	8.4
82.5°	128.6	129.1	115.0	30.9	20.6	16.4	7.9	6.1	5.6	5.1	5.1
85°	8.9	5.6	6.5	9.4	12.6	6.5	0.5	1.4	1.4	1.9	2.3
87.5°	0.9	0.5	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: P458643
 CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3
2.5°	1683.1	1703.6	1665.3	1666.2	1634.4	1644.7	1607.3	1619.5	1597.5	1614.3	1663.9
5°	1266.4	1271.1	1240.2	1230.4	1235.1	1254.2	1261.7	1227.6	1242.1	1213.5	1211.7
7.5°	892.3	897.9	880.1	877.8	911.4	903.5	918.0	882.9	849.7	864.2	837.6
10°	693.1	669.7	633.2	622.9	616.4	620.6	620.6	588.8	584.1	571.5	590.6
12.5°	547.1	518.6	484.0	437.2	425.6	424.6	407.3	379.3	370.4	359.6	375.5
15°	397.5	385.8	356.8	330.6	304.0	298.8	270.8	247.9	217.5	213.2	211.8
17.5°	279.7	262.3	261.9	246.9	231.5	221.2	195.0	168.8	157.1	155.7	155.7
20°	209.5	203.4	193.6	191.7	187.1	175.4	152.0	138.0	132.3	132.8	134.7
22.5°	176.3	172.1	163.2	159.0	157.1	146.8	129.5	120.2	117.4	117.4	117.8
25°	157.6	153.9	144.0	137.5	135.1	127.7	114.1	107.1	104.8	104.8	104.8
27.5°	143.6	138.9	128.6	123.0	118.8	110.4	101.9	94.9	92.6	92.6	93.1
30°	133.7	128.6	119.2	111.8	105.2	97.7	90.7	84.6	81.8	81.4	81.8
32.5°	120.7	116.0	106.6	101.9	94.5	85.6	80.0	74.4	71.5	72.0	71.5
35°	94.0	92.6	86.0	87.4	83.2	75.8	70.6	64.5	61.3	60.8	61.7
37.5°	85.6	80.0	72.5	73.0	71.5	68.7	60.3	53.8	51.4	51.4	51.9
40°	79.0	73.4	65.0	60.8	61.3	61.3	52.4	45.4	43.0	42.6	43.5
42.5°	73.4	67.8	58.5	51.4	49.6	51.9	44.4	37.4	35.1	34.1	35.1
45°	69.7	63.6	52.8	44.9	39.3	42.1	36.5	30.9	28.1	28.1	27.6
47.5°	65.9	60.3	48.6	38.8	32.7	31.3	29.9	24.8	22.0	21.5	22.0
50°	62.7	57.1	44.0	33.7	27.6	24.3	24.3	19.6	17.8	16.8	17.3
52.5°	59.4	53.3	39.7	29.9	23.8	19.6	17.3	15.9	14.5	14.0	14.5
55°	54.7	48.6	35.5	25.7	20.6	16.4	13.6	13.1	12.2	11.2	12.2
57.5°	49.1	43.5	31.3	22.0	16.4	12.6	11.2	10.8	9.8	9.4	9.4
59°	45.8	40.7	29.0	19.2	14.5	11.2	10.3	9.8	8.9	7.9	8.4
60°	44.0	39.7	27.6	17.8	13.1	10.3	9.4	8.9	7.9	7.5	7.9
62.5°	38.8	35.5	24.3	14.5	10.3	7.5	6.5	7.0	6.5	6.1	6.5
65°	34.1	31.3	20.6	11.2	7.9	5.1	4.7	6.1	5.6	5.1	5.6
67.5°	30.4	27.1	17.3	8.4	5.6	2.8	3.3	5.1	5.1	4.7	5.1
70°	26.2	23.4	14.0	6.1	2.8	1.4	2.3	3.7	4.7	4.2	4.7
72.5°	21.5	18.2	10.8	4.2	1.4	0.0	1.4	3.3	4.7	4.2	4.7
75°	16.8	13.6	7.9	2.3	0.0	0.0	0.5	2.8	4.7	4.2	4.7
77.5°	12.2	9.8	4.7	0.5	0.0	0.0	0.5	2.8	4.7	4.2	4.7
80°	7.9	7.0	1.9	0.0	0.0	0.0	0.5	2.8	4.7	4.7	5.1
82.5°	5.1	3.7	0.0	0.0	0.0	0.0	0.9	3.7	5.1	5.6	5.6
85°	2.3	0.0	0.0	0.0	0.0	0.0	1.9	4.7	6.1	6.1	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	3.3	5.6	7.0	7.0	7.0
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: P458643
 CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3
2.5°	1672.3	1701.8	1743.4	1807.5	1859.4	1941.2	2003.9	2089.4	2176.0	2202.1	2242.8
5°	1230.8	1268.7	1363.2	1449.2	1503.5	1676.5	1785.9	1958.5	2113.3	2187.6	2268.5
7.5°	854.9	899.8	971.8	1092.0	1206.1	1346.8	1523.6	1720.9	1947.7	2053.9	2168.0
10°	600.0	656.1	757.6	856.3	999.8	1133.6	1308.0	1525.9	1776.1	1901.4	2044.5
12.5°	378.8	428.8	563.0	673.9	853.0	1008.2	1169.1	1366.5	1656.4	1785.0	1935.1
15°	216.5	258.6	321.3	463.4	662.2	867.5	1068.1	1297.2	1595.1	1753.7	1915.9
17.5°	161.3	172.6	200.6	281.1	462.0	701.9	975.0	1276.2	1636.8	1822.9	2008.1
20°	135.6	143.1	156.2	188.0	294.6	540.6	884.3	1279.9	1771.4	2005.3	2181.1
22.5°	121.6	126.3	137.0	157.6	201.1	393.8	778.2	1301.9	1934.7	2229.3	2432.2
25°	106.6	112.7	122.1	139.8	167.4	273.1	673.4	1351.0	2163.3	2513.6	2704.4
27.5°	94.9	100.5	109.9	126.3	146.8	208.6	551.4	1393.1	2404.6	2799.8	2956.0
30°	83.2	88.9	98.2	111.3	130.0	168.8	419.9	1417.9	2638.9	3014.4	3134.6
32.5°	73.4	78.1	87.0	98.7	114.1	143.1	331.1	1392.2	2818.0	3209.5	3289.9
35°	63.6	69.2	76.7	87.4	101.0	122.1	275.4	1303.3	2971.9	3410.1	3439.1
37.5°	53.3	59.9	67.8	77.6	88.4	112.2	221.2	1205.1	3136.5	3660.3	3612.6
40°	44.9	51.0	58.5	69.2	79.0	102.9	170.2	1100.4	3314.2	3895.0	3802.0
42.5°	36.5	43.0	51.9	61.7	78.1	89.8	131.9	991.9	3473.7	4099.4	3973.1
45°	29.0	34.6	44.0	56.6	77.6	77.2	101.9	884.8	3593.9	4245.3	4100.8
47.5°	22.9	27.6	36.9	55.2	71.5	65.5	81.8	818.4	3720.1	4376.7	4198.5
50°	18.2	22.9	31.8	57.5	62.7	56.1	68.7	829.1	3842.2	4443.6	4238.7
52.5°	15.4	20.1	27.6	45.4	48.2	49.1	60.3	878.7	3999.8	4515.1	4318.7
55°	13.6	17.8	23.4	31.8	37.4	44.0	55.2	914.7	4210.7	4668.5	4495.0
57.5°	10.8	15.4	21.0	27.1	30.9	38.3	51.0	917.5	4401.5	4865.4	4729.3
59°	9.8	14.0	19.6	25.7	27.6	34.6	48.2	893.7	4408.5	4894.8	4836.9
60°	8.9	13.6	18.7	23.8	26.2	32.7	45.8	866.1	4344.9	4848.1	4881.3
62.5°	7.5	11.7	16.4	19.2	22.4	27.1	39.7	766.0	4036.7	4636.2	4799.0
65°	6.5	10.3	14.0	15.9	18.7	23.4	35.1	613.1	3696.3	4349.1	4563.3
67.5°	6.1	9.4	12.2	13.6	16.4	21.5	31.3	433.0	3255.3	3984.8	4209.3
70°	5.6	8.9	10.8	12.6	14.5	18.2	26.7	252.5	2507.5	3346.0	3583.1
72.5°	5.6	8.4	9.4	10.8	12.6	16.4	24.8	136.6	1714.4	2552.4	2858.7
75°	5.6	7.9	8.4	9.4	11.2	15.0	22.0	71.5	1108.3	1773.3	2188.6
77.5°	5.6	7.5	8.4	8.9	10.8	13.1	19.2	44.9	738.4	1242.1	1479.2
80°	6.1	7.5	7.9	8.9	10.3	12.2	15.9	29.9	434.0	747.3	900.2
82.5°	6.5	7.5	8.4	9.4	10.8	11.7	14.0	18.7	200.2	494.3	559.3
85°	7.0	7.9	8.9	9.8	11.2	11.7	13.1	13.6	32.7	223.1	301.6
87.5°	7.5	8.4	9.4	10.3	12.2	12.2	12.2	12.2	11.2	23.8	60.8
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: P458643

CATALOG NUMBER: GALN-SA2A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3	2033.3
2.5°	2294.3	2347.1	2384.1	2393.4	2366.8	2354.6	2320.9	2268.5	2236.7	2235.3
5°	2417.7	2541.7	2627.7	2642.2	2590.8	2503.8	2400.4	2267.1	2189.0	2165.7
7.5°	2396.7	2613.7	2752.1	2772.2	2685.7	2519.7	2319.5	2104.9	2019.8	1983.8
10°	2310.2	2574.9	2772.7	2804.5	2689.0	2455.1	2200.7	1961.3	1855.6	1828.0
12.5°	2236.3	2503.8	2679.6	2723.6	2636.1	2402.8	2129.7	1869.2	1756.0	1730.3
15°	2204.0	2419.6	2527.2	2549.6	2535.1	2370.0	2122.2	1855.2	1725.6	1697.6
17.5°	2236.3	2348.0	2361.6	2384.5	2416.8	2366.8	2194.2	1931.4	1791.6	1756.9
20°	2320.9	2285.9	2229.7	2239.6	2313.4	2380.3	2322.3	2100.2	1930.0	1893.0
22.5°	2465.0	2270.4	2143.2	2134.8	2228.3	2425.7	2510.3	2328.9	2131.5	2095.1
25°	2641.7	2309.2	2111.4	2093.2	2195.1	2492.1	2714.7	2609.0	2393.4	2337.8
27.5°	2834.4	2389.7	2111.4	2093.7	2192.3	2551.0	2889.6	2856.8	2664.6	2603.9
30°	2940.1	2456.1	2141.8	2121.7	2226.9	2585.1	2983.1	3077.1	2868.5	2793.2
32.5°	3034.6	2548.2	2201.2	2163.3	2299.4	2635.7	3066.8	3264.2	3030.8	2980.3
35°	3121.5	2646.9	2283.0	2239.1	2394.8	2704.9	3159.4	3460.6	3256.7	3180.5
37.5°	3217.4	2761.4	2410.7	2373.3	2554.3	2839.5	3269.3	3718.7	3478.8	3382.9
40°	3321.7	2894.3	2620.7	2604.8	2807.7	2992.0	3408.2	3994.2	3732.3	3623.3
42.5°	3427.8	3047.2	2877.9	2904.1	3094.9	3205.7	3550.8	4206.0	3939.9	3819.7
45°	3524.2	3242.7	3212.3	3341.8	3429.7	3414.3	3656.5	4355.2	4120.9	4005.9
47.5°	3645.8	3527.5	3616.8	3816.5	3818.8	3641.1	3736.5	4477.2	4276.6	4161.6
50°	3781.9	3863.7	4139.1	4342.6	4287.8	3864.2	3830.0	4621.7	4437.5	4345.4
52.5°	3939.4	4240.1	4621.7	4847.6	4719.9	4107.3	3985.7	4777.9	4692.8	4604.4
55°	4122.8	4496.9	5103.0	5283.0	5154.4	4409.4	4222.4	4989.8	4981.4	4921.0
57.5°	4329.9	4768.1	5381.7	5625.3	5510.7	4763.9	4553.0	5189.5	5157.7	5124.0
59°	4493.6	4907.5	5504.7	5757.2	5688.0	5012.2	4775.1	5313.9	5198.4	5147.8
60°	4592.7	5001.9	5550.0	5775.0	5759.1	5160.0	4915.9	5374.7	5197.9	5127.7
62.5°	4886.9	5167.0	5532.7	5695.9	5758.1	5443.4	5328.8	5441.5	5101.5	4998.7
65°	4991.7	5112.3	5246.1	5225.9	5279.3	5428.9	5592.6	5368.1	4895.8	4749.4
67.5°	4787.8	4512.3	4559.5	4425.3	4399.1	4826.6	5485.5	5009.0	4493.1	4314.0
70°	4035.8	3456.8	3433.0	3494.7	3325.4	3907.6	4925.7	4317.3	3828.6	3625.7
72.5°	3176.7	2443.0	2241.9	2469.2	2464.0	2981.2	4091.9	3063.5	2586.5	2569.2
75°	2498.2	1700.8	1492.7	1529.7	1600.8	2158.2	3259.0	1945.4	1592.8	1451.6
77.5°	1677.0	1205.1	1124.2	1078.9	1155.6	1385.6	2061.9	1055.0	893.2	846.0
80°	966.6	875.4	994.2	902.6	943.7	873.1	1025.5	484.0	401.7	434.9
82.5°	629.0	498.5	531.2	394.7	539.7	544.3	329.2	143.1	121.1	128.6
85°	393.3	233.8	131.4	93.5	186.1	342.3	102.9	8.9	10.3	8.9
87.5°	101.9	38.8	16.4	24.3	29.9	26.7	23.8	1.4	0.5	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)