

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: P647780

Luminaire Tested: **GALN-SA2A-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647780
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-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 5170.9 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

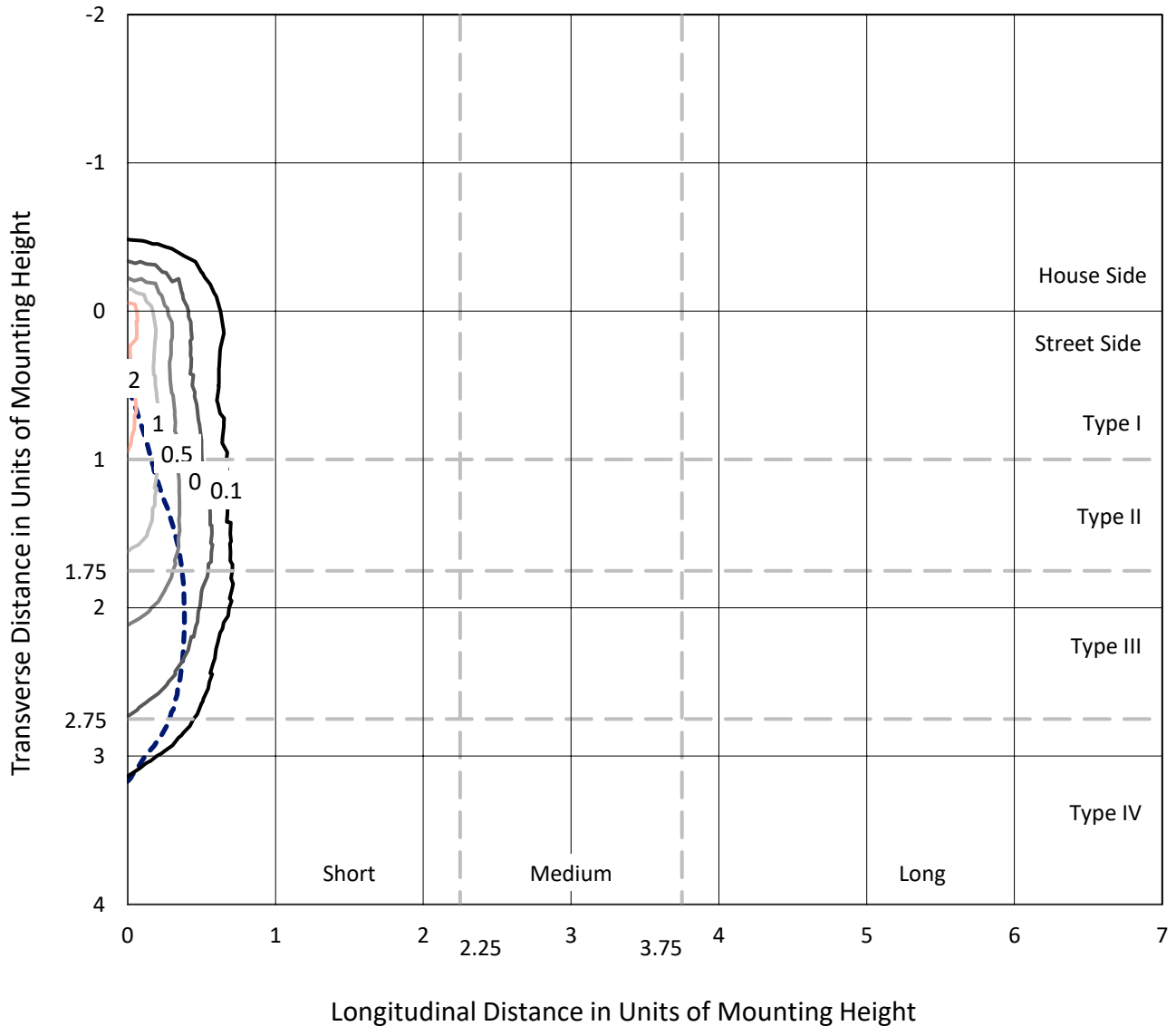
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647780
 CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

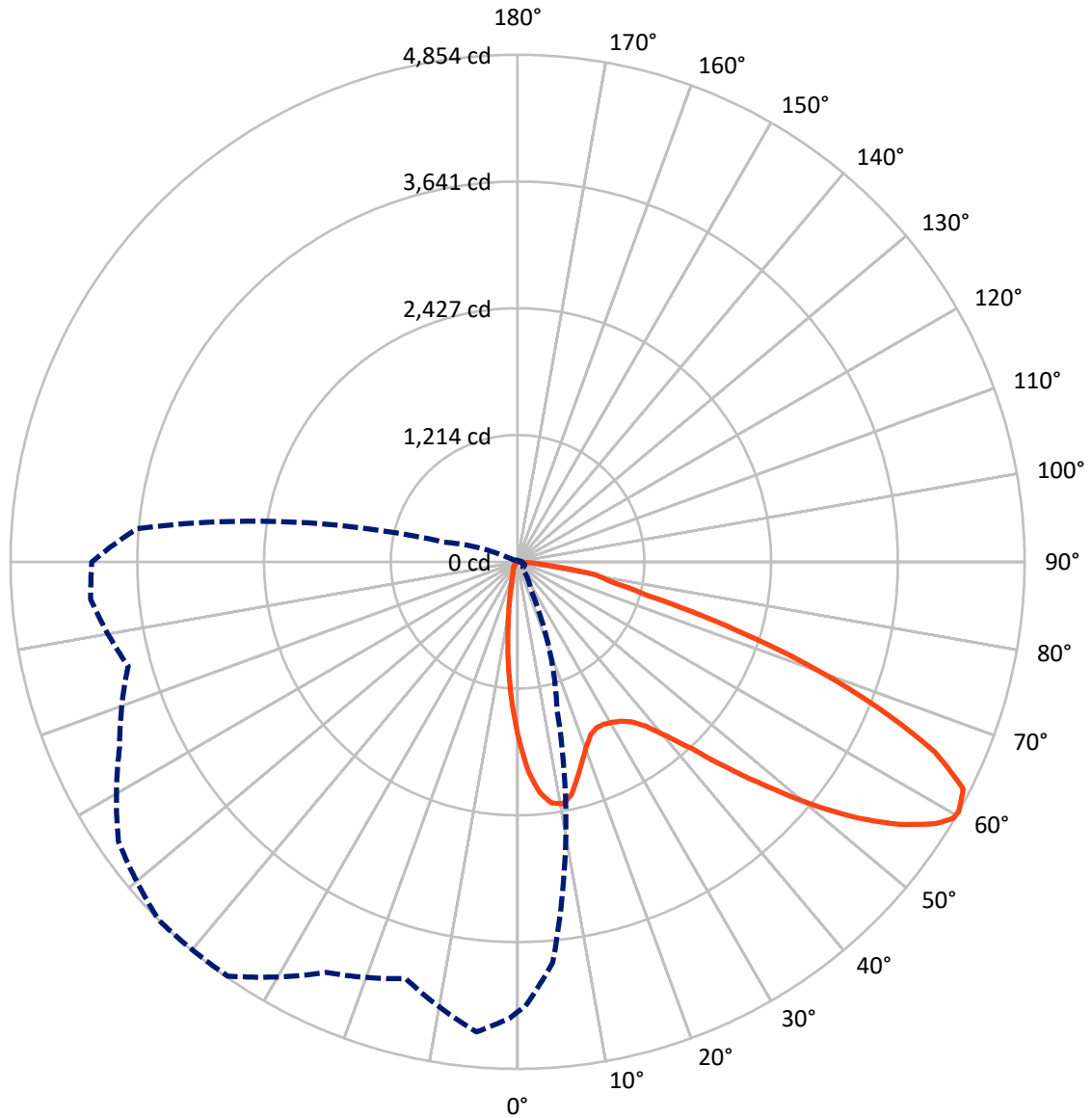
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P647780
CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647780
 CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

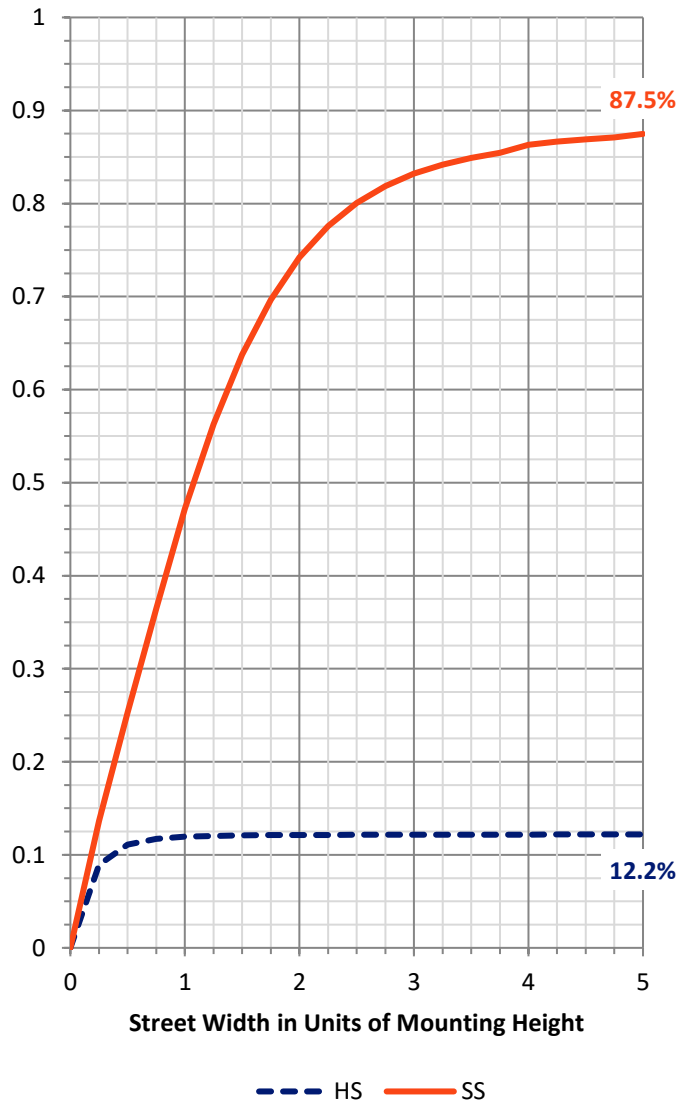
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.8	0.0	637.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4533.1	0.0	4533.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	5170.9	0.0	5170.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	2.5
10°-20°	252.5	4.9
20°-30°	370.2	7.2
30°-40°	550.5	10.6
40°-50°	801.1	15.5
50°-60°	1155.3	22.3
60°-70°	1270.7	24.6
70°-80°	569.2	11.0
80°-90°	74.4	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°	5170.9	100.0
0°-180°	5170.9	100.0

Coefficient of Utilization



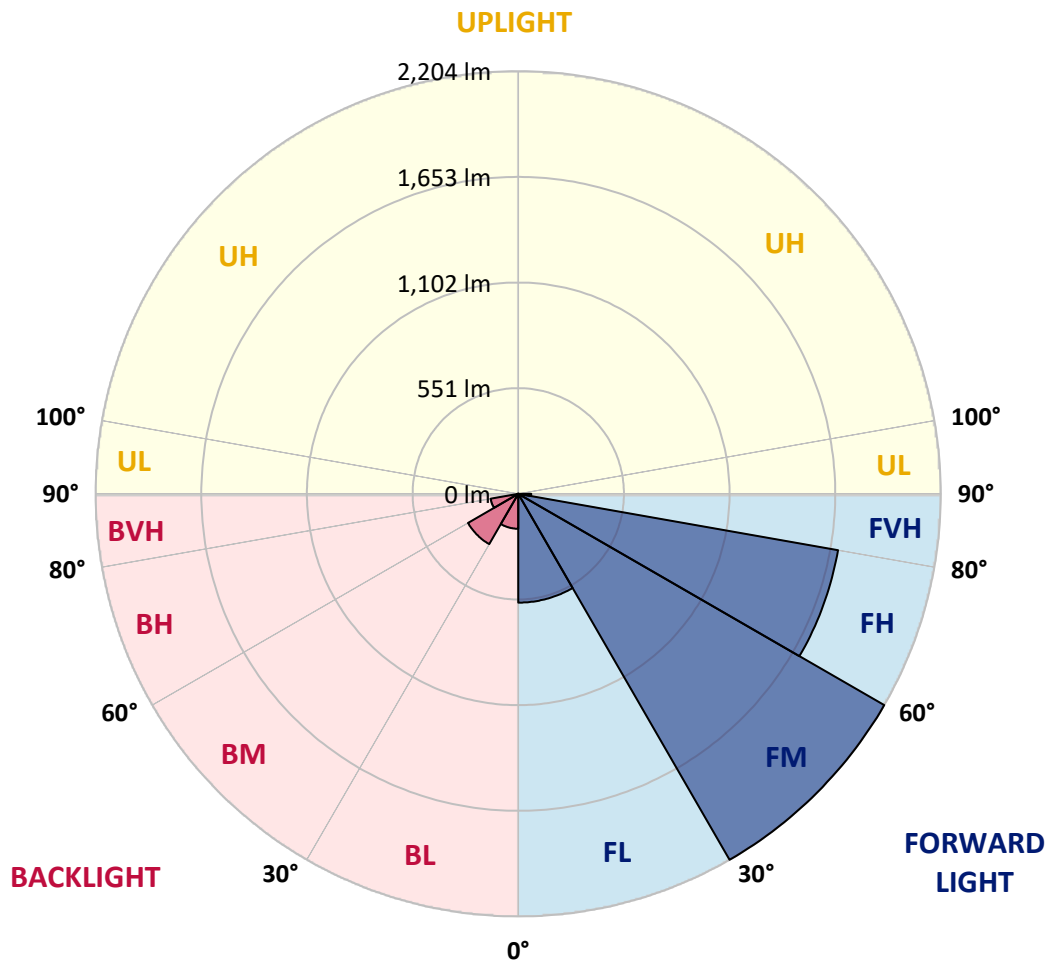
REPORT NUMBER: P647780
 CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.5	11.0			
FM (30°-60°)	2204.0	42.6			
FH (60°-80°)	1693.6	32.8			G1/1800
FVH (80°-90°)	68.0	1.3			G1/100
BL (0°-30°)	182.2	3.5	B1/500		
BM (30°-60°)	302.9	5.9	B1/1000		
BH (60°-80°)	146.2	2.8	B1/500		G1/500
BVH (80°-90°)	6.4	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-G1

Type IV Short





REPORT NUMBER: P647780

CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1
2.5°	1878.9	1870.6	1851.7	1794.4	1744.4	1679.2	1613.1	1561.3	1529.4	1470.9	1444.2
5°	1820.3	1824.2	1769.6	1651.7	1520.4	1430.8	1332.9	1255.1	1169.4	1115.1	1058.1
7.5°	1667.4	1659.6	1600.2	1435.9	1276.3	1146.5	1022.8	922.1	858.9	808.1	765.7
10°	1536.5	1530.6	1454.7	1243.2	1071.9	974.8	891.1	803.0	735.0	660.8	601.4
12.5°	1454.3	1441.0	1353.7	1132.8	993.3	902.9	811.7	720.1	626.2	551.1	479.1
15°	1426.9	1407.6	1310.5	1094.7	943.0	828.2	713.8	608.5	500.4	417.4	363.2
17.5°	1476.7	1444.9	1341.5	1088.0	882.8	730.7	590.0	452.8	340.4	277.1	243.7
20°	1591.1	1554.6	1420.1	1081.3	816.0	621.5	448.5	319.9	235.4	200.8	182.4
22.5°	1761.0	1710.6	1536.5	1092.0	754.3	514.9	323.9	226.1	187.1	165.4	152.5
25°	1964.9	1922.9	1683.9	1129.7	705.6	431.2	250.4	184.7	157.6	144.2	134.4
27.5°	2188.6	2121.4	1874.6	1174.9	661.2	366.4	219.7	165.1	140.3	128.2	123.0
30°	2347.8	2295.5	2034.2	1206.4	605.7	317.6	200.8	162.7	140.7	126.1	116.7
32.5°	2505.1	2438.2	2167.8	1220.9	565.2	283.8	173.7	141.9	123.4	116.0	106.5
35°	2673.2	2603.3	2301.0	1213.0	534.9	261.4	157.6	126.5	105.7	93.2	83.7
37.5°	2843.5	2769.5	2433.5	1184.7	516.1	252.4	145.0	120.3	99.8	86.8	76.7
40°	3045.5	2946.8	2557.7	1161.5	496.4	247.7	136.8	116.4	95.5	81.7	71.6
42.5°	3210.6	3116.7	2675.2	1149.4	483.1	236.6	136.8	113.2	92.8	77.4	66.8
45°	3367.1	3269.6	2802.2	1159.2	477.6	222.8	138.4	112.8	90.8	74.3	63.7
47.5°	3497.9	3413.4	2932.7	1196.1	470.5	208.0	130.1	118.3	89.7	71.6	60.5
50°	3652.4	3570.6	3105.2	1270.8	457.9	193.0	119.9	127.3	89.3	69.2	57.8
52.5°	3870.1	3781.7	3343.5	1355.7	437.9	170.2	110.5	126.1	87.6	65.2	55.0
55°	4136.3	4064.7	3619.4	1457.5	410.4	144.6	95.5	112.0	82.9	58.6	50.3
57.5°	4306.9	4246.0	3826.1	1501.6	368.3	118.3	84.1	94.0	75.9	52.3	44.8
59°	4326.9	4271.9	3869.4	1487.0	340.8	108.1	78.6	80.6	73.9	48.7	41.7
60°	4310.0	4253.0	3852.0	1458.7	315.2	101.0	73.9	71.6	74.3	46.7	39.3
62.5°	4201.5	4104.0	3684.2	1315.2	275.5	92.8	65.6	58.6	65.6	42.0	35.0
65°	3992.0	3845.8	3352.1	1113.2	259.8	88.0	55.8	49.2	50.0	37.0	30.3
67.5°	3626.1	3441.8	2909.9	904.4	253.1	88.5	47.1	44.0	38.5	31.5	26.7
70°	3047.4	2863.5	2334.8	744.1	250.0	88.5	40.1	37.7	32.3	26.3	23.2
72.5°	2159.5	1961.4	1575.0	584.5	225.2	88.0	34.2	34.2	26.3	22.0	18.9
75°	1220.1	1221.6	990.1	413.5	187.1	72.7	27.5	27.1	19.3	16.9	14.2
77.5°	711.0	698.5	667.4	177.7	86.8	33.0	19.3	16.5	13.4	12.2	10.3
80°	365.6	300.7	292.8	64.4	31.1	20.8	13.4	9.4	8.6	7.8	7.0
82.5°	108.1	108.5	96.7	25.9	17.3	13.8	6.7	5.1	4.7	4.3	4.3
85°	7.4	4.7	5.5	7.8	10.6	5.5	0.4	1.2	1.2	1.6	2.0
87.5°	0.8	0.4	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: P647780

CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1
2.5°	1414.6	1432.0	1399.7	1400.5	1373.8	1382.5	1351.0	1361.2	1342.7	1356.9	1398.5
5°	1064.4	1068.3	1042.4	1034.2	1038.1	1054.2	1060.5	1031.8	1044.0	1020.0	1018.4
7.5°	750.0	754.7	739.8	737.8	766.1	759.4	771.6	742.1	714.2	726.4	704.0
10°	582.6	562.9	532.2	523.6	518.0	521.6	521.6	494.9	490.9	480.3	496.4
12.5°	459.9	435.9	406.8	367.5	357.7	356.9	342.3	318.8	311.3	302.2	315.6
15°	334.1	324.3	299.9	277.9	255.5	251.2	227.6	208.4	182.8	179.2	178.1
17.5°	235.1	220.5	220.1	207.6	194.6	185.9	163.9	141.9	132.1	130.9	130.9
20°	176.1	171.0	162.7	161.1	157.2	147.4	127.8	116.0	111.3	111.7	113.2
22.5°	148.2	144.6	137.2	133.7	132.1	123.4	108.9	101.0	98.7	98.7	99.0
25°	132.5	129.4	121.1	115.6	113.6	107.3	95.9	90.0	88.0	88.0	88.0
27.5°	120.7	116.7	108.1	103.4	99.8	92.8	85.7	79.8	77.8	77.8	78.2
30°	112.4	108.1	100.2	94.0	88.5	82.1	76.3	71.2	68.8	68.4	68.8
32.5°	101.4	97.5	89.7	85.7	79.4	72.0	67.2	62.5	60.1	60.5	60.1
35°	79.0	77.8	72.3	73.5	70.0	63.7	59.4	54.3	51.5	51.1	51.9
37.5°	72.0	67.2	60.9	61.3	60.1	57.8	50.7	45.2	43.2	43.2	43.6
40°	66.4	61.7	54.7	51.1	51.5	51.5	44.0	38.1	36.2	35.8	36.6
42.5°	61.7	57.0	49.2	43.2	41.7	43.6	37.3	31.5	29.5	28.7	29.5
45°	58.6	53.5	44.4	37.7	33.0	35.4	30.7	25.9	23.6	23.6	23.2
47.5°	55.4	50.7	40.9	32.7	27.5	26.3	25.1	20.8	18.5	18.1	18.5
50°	52.7	47.9	37.0	28.3	23.2	20.4	20.4	16.5	15.0	14.2	14.6
52.5°	50.0	44.8	33.4	25.1	20.0	16.5	14.6	13.4	12.2	11.8	12.2
55°	46.0	40.9	29.9	21.6	17.3	13.8	11.4	11.0	10.3	9.4	10.3
57.5°	41.3	36.6	26.3	18.5	13.8	10.6	9.4	9.0	8.2	7.8	7.8
59°	38.5	34.2	24.4	16.1	12.2	9.4	8.6	8.2	7.4	6.7	7.0
60°	37.0	33.4	23.2	15.0	11.0	8.6	7.8	7.4	6.7	6.3	6.7
62.5°	32.7	29.9	20.4	12.2	8.6	6.3	5.5	5.9	5.5	5.1	5.5
65°	28.7	26.3	17.3	9.4	6.7	4.3	3.9	5.1	4.7	4.3	4.7
67.5°	25.5	22.8	14.6	7.0	4.7	2.3	2.7	4.3	4.3	3.9	4.3
70°	22.0	19.7	11.8	5.1	2.3	1.2	2.0	3.1	3.9	3.5	3.9
72.5°	18.1	15.3	9.0	3.5	1.2	0.0	1.2	2.7	3.9	3.5	3.9
75°	14.2	11.4	6.7	2.0	0.0	0.0	0.4	2.3	3.9	3.5	3.9
77.5°	10.3	8.2	3.9	0.4	0.0	0.0	0.4	2.3	3.9	3.5	3.9
80°	6.7	5.9	1.6	0.0	0.0	0.0	0.4	2.3	3.9	3.9	4.3
82.5°	4.3	3.1	0.0	0.0	0.0	0.0	0.8	3.1	4.3	4.7	4.7
85°	2.0	0.0	0.0	0.0	0.0	0.0	1.6	3.9	5.1	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.7	4.7	5.9	5.9	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: P647780
 CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1
2.5°	1405.6	1430.4	1465.4	1519.2	1562.9	1631.6	1684.3	1756.3	1828.9	1850.9	1885.2
5°	1034.6	1066.4	1145.8	1218.1	1263.7	1409.2	1501.2	1646.2	1776.3	1838.8	1906.8
7.5°	718.6	756.3	816.8	917.8	1013.8	1132.1	1280.6	1446.5	1637.1	1726.4	1822.3
10°	504.3	551.5	636.7	719.7	840.4	952.8	1099.4	1282.6	1492.9	1598.3	1718.5
12.5°	318.4	360.4	473.2	566.4	717.0	847.4	982.7	1148.6	1392.3	1500.4	1626.5
15°	182.0	217.4	270.1	389.5	556.6	729.1	897.8	1090.4	1340.7	1474.0	1610.4
17.5°	135.6	145.0	168.7	236.2	388.4	590.0	819.6	1072.7	1375.7	1532.2	1687.8
20°	114.0	120.3	131.3	158.0	247.7	454.4	743.3	1075.8	1489.0	1685.5	1833.2
22.5°	102.2	106.1	115.2	132.5	169.0	331.0	654.0	1094.3	1626.1	1873.8	2044.3
25°	89.7	94.7	102.6	117.5	140.7	229.6	566.0	1135.6	1818.4	2112.8	2273.1
27.5°	79.8	84.5	92.4	106.1	123.4	175.3	463.5	1171.0	2021.2	2353.3	2484.6
30°	70.0	74.7	82.5	93.6	109.3	141.9	353.0	1191.8	2218.1	2533.7	2634.7
32.5°	61.7	65.6	73.1	82.9	95.9	120.3	278.3	1170.2	2368.7	2697.7	2765.2
35°	53.5	58.2	64.4	73.5	84.9	102.6	231.5	1095.5	2497.9	2866.2	2890.6
37.5°	44.8	50.3	57.0	65.2	74.3	94.4	185.9	1013.0	2636.3	3076.6	3036.5
40°	37.7	42.8	49.2	58.2	66.4	86.4	143.1	924.9	2785.7	3273.9	3195.7
42.5°	30.7	36.2	43.6	51.9	65.6	75.5	110.9	833.7	2919.7	3445.7	3339.5
45°	24.4	29.0	37.0	47.5	65.2	64.8	85.7	743.7	3020.7	3568.3	3446.8
47.5°	19.3	23.2	31.1	46.4	60.1	55.0	68.8	687.9	3126.8	3678.8	3529.0
50°	15.3	19.3	26.7	48.3	52.7	47.1	57.8	696.9	3229.5	3734.9	3562.8
52.5°	13.0	16.9	23.2	38.1	40.5	41.3	50.7	738.6	3361.9	3795.1	3630.0
55°	11.4	15.0	19.7	26.7	31.5	37.0	46.4	768.8	3539.2	3924.0	3778.2
57.5°	9.0	13.0	17.7	22.8	25.9	32.3	42.8	771.2	3699.6	4089.5	3975.1
59°	8.2	11.8	16.5	21.6	23.2	29.0	40.5	751.1	3705.5	4114.3	4065.5
60°	7.4	11.4	15.7	20.0	22.0	27.5	38.5	728.0	3652.0	4075.0	4102.8
62.5°	6.3	9.9	13.8	16.1	18.9	22.8	33.4	643.9	3393.0	3896.9	4033.7
65°	5.5	8.6	11.8	13.4	15.7	19.7	29.5	515.3	3106.8	3655.5	3835.6
67.5°	5.1	7.8	10.3	11.4	13.8	18.1	26.3	364.0	2736.2	3349.4	3538.0
70°	4.7	7.4	9.0	10.6	12.2	15.3	22.4	212.3	2107.6	2812.4	3011.7
72.5°	4.7	7.0	7.8	9.0	10.6	13.8	20.8	114.8	1441.0	2145.3	2402.9
75°	4.7	6.7	7.0	7.8	9.4	12.6	18.5	60.1	931.6	1490.5	1839.6
77.5°	4.7	6.3	7.0	7.4	9.0	11.0	16.1	37.7	620.7	1044.0	1243.2
80°	5.1	6.3	6.7	7.4	8.6	10.3	13.4	25.1	364.8	628.1	756.7
82.5°	5.5	6.3	7.0	7.8	9.0	9.9	11.8	15.7	168.3	415.5	470.1
85°	5.9	6.7	7.4	8.2	9.4	9.9	11.0	11.4	27.5	187.5	253.5
87.5°	6.3	7.0	7.8	8.6	10.3	10.3	10.3	10.3	9.4	20.0	51.1
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: P647780

CATALOG NUMBER: GALN-SA2A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1	1709.1
2.5°	1928.4	1972.8	2003.9	2011.8	1989.3	1979.1	1950.8	1906.8	1880.1	1878.9
5°	2032.2	2136.3	2208.7	2220.8	2177.6	2104.5	2017.6	1905.6	1840.0	1820.3
7.5°	2014.5	2196.9	2313.2	2330.1	2257.4	2117.9	1949.6	1769.2	1697.7	1667.4
10°	1941.8	2164.2	2330.5	2357.2	2260.1	2063.6	1849.8	1648.5	1559.7	1536.5
12.5°	1879.7	2104.5	2252.3	2289.3	2215.7	2019.6	1790.0	1571.1	1476.0	1454.3
15°	1852.5	2033.8	2124.1	2143.0	2130.9	1992.1	1783.8	1559.3	1450.4	1426.9
17.5°	1879.7	1973.6	1985.0	2004.2	2031.4	1989.3	1844.3	1623.4	1505.9	1476.7
20°	1950.8	1921.3	1874.2	1882.4	1944.5	2000.7	1952.0	1765.3	1622.2	1591.1
22.5°	2071.9	1908.3	1801.4	1794.4	1873.0	2038.9	2110.0	1957.5	1791.6	1761.0
25°	2220.4	1941.0	1774.7	1759.4	1845.1	2094.7	2281.7	2192.9	2011.8	1964.9
27.5°	2382.4	2008.6	1774.7	1759.8	1842.7	2144.2	2428.8	2401.2	2239.7	2188.6
30°	2471.2	2064.4	1800.3	1783.4	1871.8	2172.9	2507.4	2586.4	2411.1	2347.8
32.5°	2550.6	2141.8	1850.2	1818.4	1932.8	2215.3	2577.7	2743.6	2547.5	2505.1
35°	2623.8	2224.7	1919.0	1882.0	2012.9	2273.5	2655.5	2908.7	2737.4	2673.2
37.5°	2704.3	2321.0	2026.2	1994.8	2146.9	2386.7	2747.9	3125.7	2924.0	2843.5
40°	2791.9	2432.7	2202.7	2189.4	2360.0	2514.8	2864.7	3357.2	3137.1	3045.5
42.5°	2881.2	2561.3	2418.9	2440.9	2601.4	2694.5	2984.6	3535.2	3311.6	3210.6
45°	2962.2	2725.5	2700.0	2808.9	2882.8	2869.8	3073.4	3660.7	3463.8	3367.1
47.5°	3064.3	2964.9	3040.0	3207.9	3209.8	3060.4	3140.6	3763.3	3594.6	3497.9
50°	3178.7	3247.6	3479.0	3650.0	3604.1	3248.0	3219.2	3884.7	3729.8	3652.4
52.5°	3311.2	3564.0	3884.7	4074.6	3967.2	3452.3	3350.1	4016.0	3944.4	3870.1
55°	3465.3	3779.8	4289.2	4440.5	4332.4	3706.3	3549.0	4194.1	4187.0	4136.3
57.5°	3639.5	4007.7	4523.5	4728.2	4631.9	4004.2	3826.9	4361.9	4335.2	4306.9
59°	3777.0	4124.8	4626.8	4839.1	4780.9	4212.9	4013.7	4466.5	4369.4	4326.9
60°	3860.3	4204.2	4665.0	4854.1	4840.7	4337.1	4132.0	4517.5	4369.0	4310.0
62.5°	4107.5	4343.0	4650.4	4787.6	4839.9	4575.3	4479.0	4573.7	4288.0	4201.5
65°	4195.6	4297.0	4409.5	4392.6	4437.3	4563.2	4700.7	4512.0	4115.1	3992.0
67.5°	4024.2	3792.7	3832.4	3719.6	3697.6	4056.9	4610.7	4210.2	3776.6	3626.1
70°	3392.2	2905.6	2885.5	2937.4	2795.2	3284.5	4140.2	3628.8	3218.1	3047.4
72.5°	2670.1	2053.4	1884.4	2075.4	2071.1	2505.8	3439.3	2575.0	2174.1	2159.5
75°	2099.8	1429.6	1254.7	1285.8	1345.5	1814.1	2739.3	1635.1	1338.8	1220.1
77.5°	1409.6	1013.0	944.9	906.8	971.3	1164.6	1733.0	886.7	750.7	711.0
80°	812.4	735.9	835.7	758.6	793.2	733.8	862.0	406.8	337.6	365.6
82.5°	528.7	419.0	446.5	331.8	453.6	457.5	276.7	120.3	101.8	108.1
85°	330.6	196.5	110.5	78.6	156.4	287.8	86.4	7.4	8.6	7.4
87.5°	85.7	32.7	13.8	20.4	25.1	22.4	20.0	1.2	0.4	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)