

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: P651740

Luminaire Tested: **GALN-SA2A-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651740
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-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 5554 lumens
Efficiency: N/A
Efficacy: 88.2 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 (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

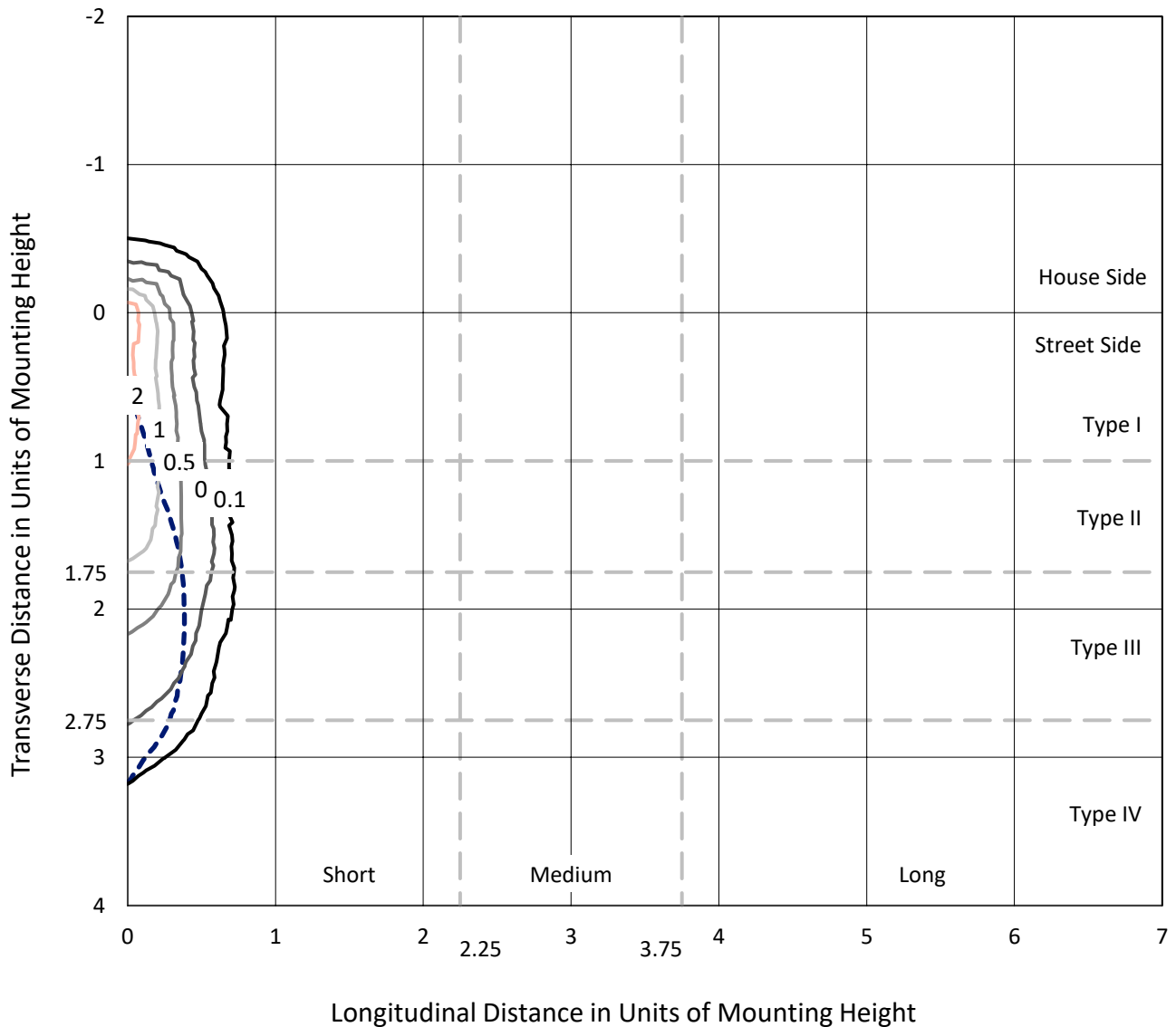




REPORT NUMBER: P651740
 CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

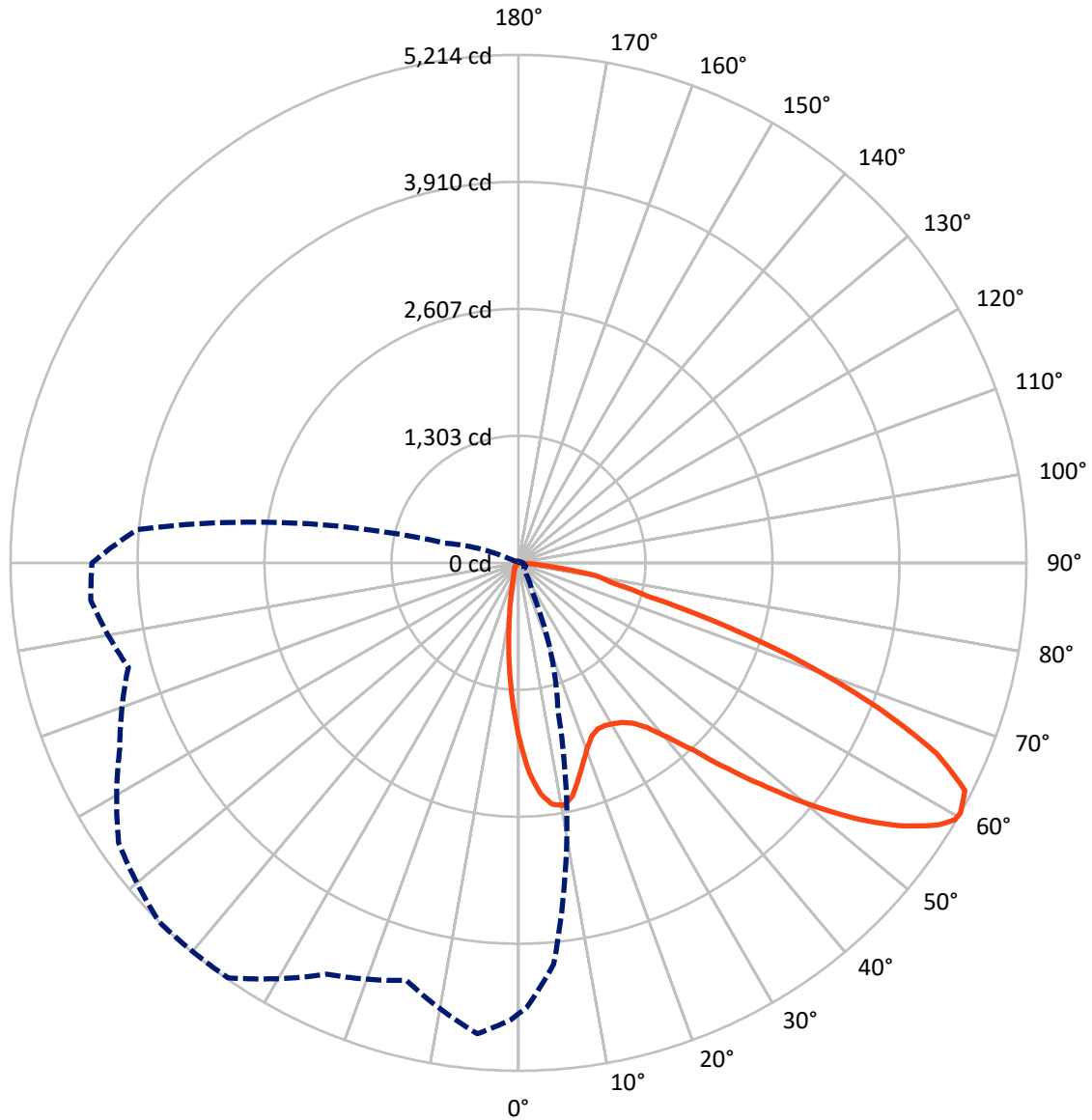
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P651740
CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651740
 CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

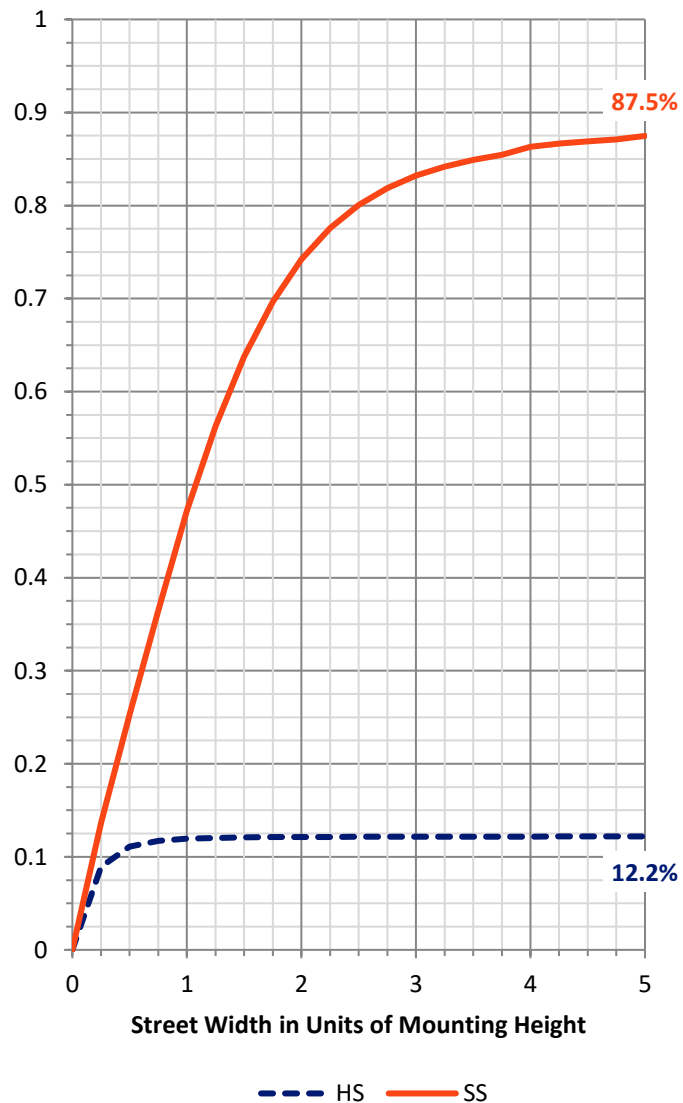
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	685.0	0.0	685.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4868.9	0.0	4868.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	5554.0	0.0	5554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	2.5
10°-20°	271.2	4.9
20°-30°	397.6	7.2
30°-40°	591.3	10.6
40°-50°	860.5	15.5
50°-60°	1240.9	22.3
60°-70°	1364.8	24.6
70°-80°	611.3	11.0
80°-90°	79.9	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°	5554.0	100.0
0°-180°	5554.0	100.0

Coefficient of Utilization



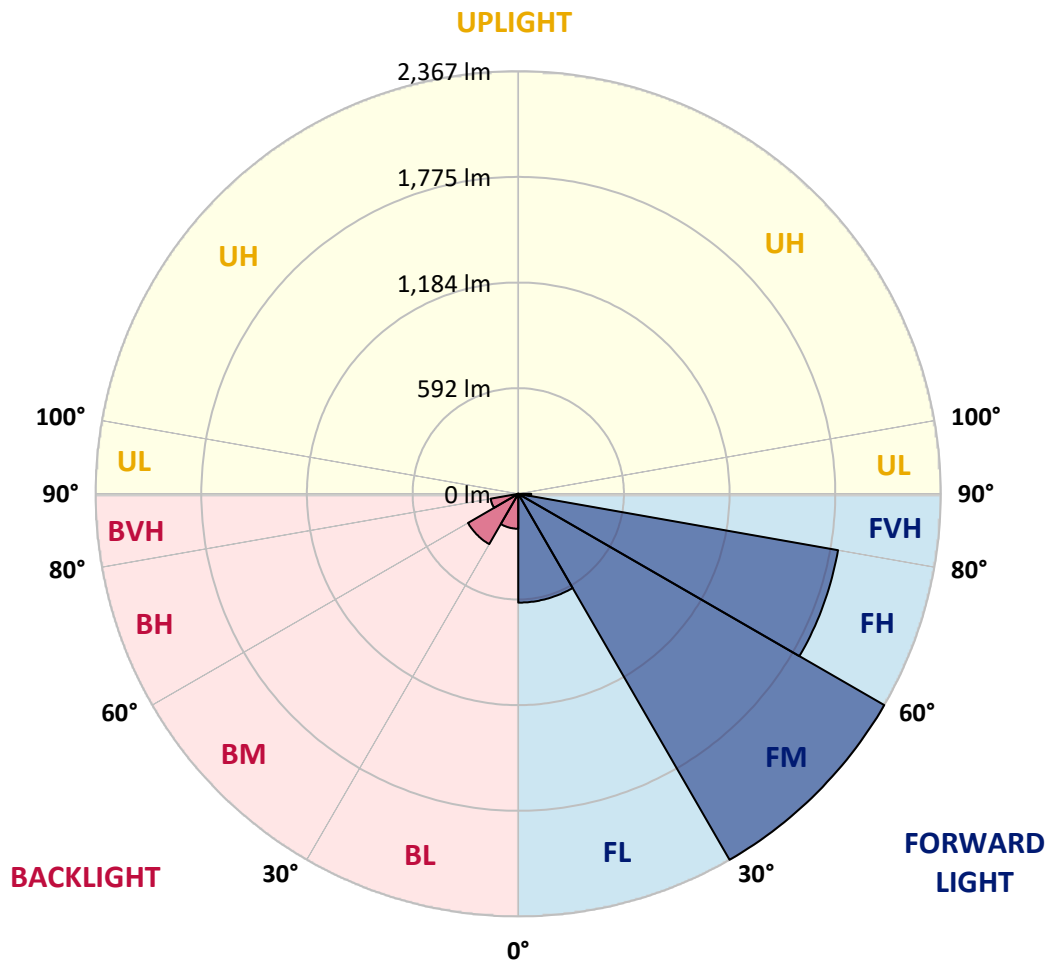
REPORT NUMBER: P651740
 CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.5	11.0			
FM (30°-60°)	2367.3	42.6			
FH (60°-80°)	1819.1	32.8			G2/5000
FVH (80°-90°)	73.0	1.3			G1/100
BL (0°-30°)	195.7	3.5	B1/500		
BM (30°-60°)	325.4	5.9	B1/1000		
BH (60°-80°)	157.1	2.8	B1/500		G1/500
BVH (80°-90°)	6.8	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: P651740

CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7
2.5°	2018.1	2009.1	1988.9	1927.3	1873.7	1803.6	1732.6	1677.0	1642.7	1579.8	1551.1
5°	1955.2	1959.4	1900.7	1774.0	1633.1	1536.8	1431.6	1348.0	1256.0	1197.8	1136.5
7.5°	1790.9	1782.5	1718.8	1542.2	1370.8	1231.5	1098.5	990.4	922.5	868.0	822.4
10°	1650.3	1644.0	1562.5	1335.3	1151.3	1047.0	957.1	862.5	789.4	709.7	646.0
12.5°	1562.1	1547.7	1454.0	1216.8	1066.9	969.8	871.8	773.5	672.5	591.9	514.6
15°	1532.6	1511.9	1407.6	1175.8	1012.8	889.5	766.7	653.5	537.5	448.3	390.1
17.5°	1586.1	1552.0	1440.9	1168.6	948.2	784.8	633.7	486.4	365.6	297.6	261.7
20°	1709.0	1669.7	1525.3	1161.4	876.5	667.5	481.7	343.6	252.9	215.7	195.9
22.5°	1891.4	1837.3	1650.3	1172.9	810.1	553.0	347.9	242.8	201.0	177.7	163.8
25°	2110.5	2065.3	1808.7	1213.4	757.8	463.1	269.0	198.4	169.3	154.9	144.4
27.5°	2350.8	2278.5	2013.4	1261.9	710.1	393.5	236.0	177.3	150.7	137.7	132.1
30°	2521.7	2465.6	2184.8	1295.7	650.6	341.1	215.7	174.8	151.1	135.5	125.4
32.5°	2690.6	2618.8	2328.4	1311.3	607.1	304.8	186.6	152.4	132.5	124.6	114.4
35°	2871.3	2796.2	2471.4	1302.9	574.6	280.7	169.3	135.9	113.5	100.1	89.9
37.5°	3054.1	2974.7	2613.7	1272.4	554.3	271.1	155.8	129.2	107.2	93.3	82.3
40°	3271.1	3165.1	2747.1	1247.5	533.2	266.0	146.9	125.0	102.6	87.8	76.9
42.5°	3448.4	3347.5	2873.4	1234.5	518.9	254.2	146.9	121.6	99.7	83.2	71.7
45°	3616.5	3511.8	3009.8	1245.0	512.9	239.3	148.6	121.2	97.6	79.8	68.4
47.5°	3757.0	3666.3	3150.0	1284.7	505.4	223.4	139.8	127.1	96.3	76.9	65.0
50°	3922.9	3835.1	3335.2	1364.9	491.8	207.3	128.8	136.7	95.9	74.3	62.1
52.5°	4156.8	4061.9	3591.2	1456.1	470.3	182.8	118.7	135.5	94.1	70.1	59.1
55°	4442.7	4365.8	3887.5	1565.4	440.8	155.3	102.6	120.3	89.1	62.9	54.1
57.5°	4625.9	4560.5	4109.5	1612.8	395.6	127.1	90.3	100.9	81.5	56.2	48.1
59°	4647.5	4588.3	4156.0	1597.1	366.0	116.1	84.4	86.5	79.4	52.3	44.7
60°	4629.3	4568.1	4137.4	1566.7	338.6	108.5	79.4	76.9	79.8	50.2	42.2
62.5°	4512.7	4408.0	3957.2	1412.6	295.9	99.7	70.5	62.9	70.5	45.2	37.6
65°	4287.8	4130.7	3600.4	1195.6	279.0	94.5	60.0	52.8	53.7	39.7	32.5
67.5°	3894.7	3696.7	3125.4	971.4	271.9	95.0	50.6	47.3	41.4	33.8	28.7
70°	3273.2	3075.6	2507.8	799.2	268.5	95.0	43.1	40.5	34.6	28.3	24.9
72.5°	2319.5	2106.7	1691.7	627.8	241.9	94.5	36.8	36.8	28.3	23.6	20.3
75°	1310.4	1312.1	1063.4	444.1	201.0	78.1	29.5	29.1	20.7	18.2	15.2
77.5°	763.7	750.3	716.9	190.8	93.3	35.5	20.7	17.7	14.4	13.1	11.0
80°	392.7	322.9	314.5	69.2	33.4	22.4	14.4	10.1	9.3	8.4	7.6
82.5°	116.1	116.6	103.9	27.8	18.6	14.8	7.1	5.5	5.0	4.6	4.6
85°	8.0	5.0	5.9	8.4	11.4	5.9	0.4	1.3	1.3	1.7	2.1
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: P651740
 CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7
2.5°	1519.4	1538.0	1503.4	1504.2	1475.5	1484.9	1451.1	1462.0	1442.1	1457.4	1502.1
5°	1143.3	1147.5	1119.6	1110.8	1115.0	1132.3	1139.1	1108.3	1121.3	1095.6	1093.9
7.5°	805.5	810.6	794.6	792.5	822.8	815.7	828.7	797.1	767.1	780.2	756.1
10°	625.7	604.6	571.6	562.4	556.4	560.3	560.3	531.5	527.3	515.9	533.2
12.5°	493.9	468.2	437.0	394.8	384.2	383.3	367.7	342.4	334.4	324.6	339.0
15°	358.9	348.3	322.1	298.5	274.4	269.8	244.5	223.8	196.3	192.5	191.2
17.5°	252.5	236.8	236.4	222.9	209.0	199.7	176.0	152.4	141.9	140.6	140.6
20°	189.1	183.7	174.8	173.1	168.9	158.4	137.3	124.6	119.5	119.9	121.6
22.5°	159.2	155.3	147.3	143.6	141.9	132.5	117.0	108.5	106.0	106.0	106.4
25°	142.3	138.9	130.0	124.1	122.0	115.2	103.0	96.7	94.5	94.5	94.5
27.5°	129.6	125.4	116.1	111.0	107.2	99.7	92.0	85.7	83.6	83.6	84.0
30°	120.8	116.1	107.6	100.9	95.0	88.2	81.9	76.4	73.9	73.4	73.9
32.5°	108.9	104.7	96.3	92.0	85.3	77.3	72.2	67.1	64.6	65.0	64.6
35°	84.9	83.6	77.7	79.0	75.2	68.4	63.7	58.3	55.3	54.9	55.8
37.5°	77.3	72.2	65.4	65.9	64.6	62.1	54.5	48.5	46.4	46.4	46.8
40°	71.3	66.3	58.7	54.9	55.3	55.3	47.3	41.0	38.9	38.4	39.3
42.5°	66.3	61.2	52.8	46.4	44.7	46.8	40.1	33.8	31.7	30.8	31.7
45°	62.9	57.4	47.7	40.5	35.5	38.0	33.0	27.8	25.3	25.3	24.9
47.5°	59.5	54.5	43.9	35.1	29.5	28.3	27.0	22.4	19.8	19.4	19.8
50°	56.6	51.5	39.7	30.4	24.9	22.0	22.0	17.7	16.1	15.2	15.6
52.5°	53.7	48.1	35.9	27.0	21.5	17.7	15.6	14.4	13.1	12.7	13.1
55°	49.4	43.9	32.1	23.2	18.6	14.8	12.3	11.9	11.0	10.1	11.0
57.5°	44.3	39.3	28.3	19.8	14.8	11.4	10.1	9.7	8.8	8.4	8.4
59°	41.4	36.8	26.2	17.3	13.1	10.1	9.3	8.8	8.0	7.1	7.6
60°	39.7	35.9	24.9	16.1	11.9	9.3	8.4	8.0	7.1	6.7	7.1
62.5°	35.1	32.1	22.0	13.1	9.3	6.7	5.9	6.3	5.9	5.5	5.9
65°	30.8	28.3	18.6	10.1	7.1	4.6	4.2	5.5	5.0	4.6	5.0
67.5°	27.4	24.5	15.6	7.6	5.0	2.5	2.9	4.6	4.6	4.2	4.6
70°	23.6	21.1	12.7	5.5	2.5	1.3	2.1	3.4	4.2	3.8	4.2
72.5°	19.4	16.5	9.7	3.8	1.3	0.0	1.3	2.9	4.2	3.8	4.2
75°	15.2	12.3	7.1	2.1	0.0	0.0	0.4	2.5	4.2	3.8	4.2
77.5°	11.0	8.8	4.2	0.4	0.0	0.0	0.4	2.5	4.2	3.8	4.2
80°	7.1	6.3	1.7	0.0	0.0	0.0	0.4	2.5	4.2	4.2	4.6
82.5°	4.6	3.4	0.0	0.0	0.0	0.0	0.8	3.4	4.6	5.0	5.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	1.7	4.2	5.5	5.5	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.9	5.0	6.3	6.3	6.3
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: P651740

CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7
2.5°	1509.8	1536.3	1573.9	1631.7	1678.6	1752.5	1809.1	1886.4	1964.4	1988.0	2024.8
5°	1111.2	1145.4	1230.6	1308.3	1357.3	1513.5	1612.4	1768.1	1907.9	1975.0	2048.0
7.5°	771.8	812.3	877.3	985.8	1088.8	1215.9	1375.5	1553.7	1758.4	1854.2	1957.3
10°	541.7	592.3	683.9	773.0	902.6	1023.4	1180.8	1377.6	1603.5	1716.6	1845.8
12.5°	342.0	387.1	508.3	608.4	770.1	910.2	1055.5	1233.7	1495.4	1611.5	1747.0
15°	195.4	233.5	290.1	418.4	597.8	783.1	964.3	1171.2	1440.0	1583.2	1729.7
17.5°	145.7	155.8	181.2	253.7	417.1	633.7	880.3	1152.2	1477.6	1645.7	1812.9
20°	122.4	129.2	141.0	169.7	266.0	488.0	798.4	1155.5	1599.2	1810.3	1969.0
22.5°	109.8	114.0	123.7	142.3	181.6	355.5	702.5	1175.4	1746.6	2012.6	2195.8
25°	96.3	101.8	110.2	126.2	151.1	246.6	608.0	1219.7	1953.1	2269.3	2441.5
27.5°	85.7	90.7	99.2	114.0	132.5	188.3	497.8	1257.7	2170.9	2527.6	2668.7
30°	75.2	80.2	88.6	100.5	117.4	152.4	379.1	1280.1	2382.4	2721.4	2829.9
32.5°	66.3	70.5	78.5	89.1	103.0	129.2	298.9	1256.9	2544.1	2897.5	2970.1
35°	57.4	62.5	69.2	79.0	91.2	110.2	248.7	1176.6	2683.0	3078.6	3104.7
37.5°	48.1	54.1	61.2	70.1	79.8	101.3	199.7	1088.0	2831.6	3304.5	3261.4
40°	40.5	46.0	52.8	62.5	71.3	92.8	153.7	993.4	2992.0	3516.4	3432.4
42.5°	33.0	38.9	46.8	55.8	70.5	81.1	119.1	895.5	3136.0	3700.9	3586.9
45°	26.2	31.2	39.7	51.0	70.1	69.6	92.0	798.8	3244.5	3832.6	3702.2
47.5°	20.7	24.9	33.4	49.8	64.6	59.1	73.9	738.8	3358.4	3951.3	3790.4
50°	16.5	20.7	28.7	51.9	56.6	50.6	62.1	748.6	3468.7	4011.6	3826.7
52.5°	14.0	18.2	24.9	41.0	43.5	44.3	54.5	793.3	3610.9	4076.2	3898.9
55°	12.3	16.1	21.1	28.7	33.8	39.7	49.8	825.8	3801.4	4214.7	4058.1
57.5°	9.7	14.0	19.0	24.5	27.8	34.6	46.0	828.3	3973.6	4392.5	4269.6
59°	8.8	12.7	17.7	23.2	24.9	31.2	43.5	806.8	3979.9	4419.0	4366.6
60°	8.0	12.3	16.9	21.5	23.6	29.5	41.4	781.9	3922.5	4376.8	4406.8
62.5°	6.7	10.6	14.8	17.3	20.3	24.5	35.9	691.6	3644.3	4185.6	4332.5
65°	5.9	9.3	12.7	14.4	16.9	21.1	31.7	553.5	3336.9	3926.3	4119.7
67.5°	5.5	8.4	11.0	12.3	14.8	19.4	28.3	391.0	2938.9	3597.5	3800.1
70°	5.0	8.0	9.7	11.4	13.1	16.5	24.1	228.0	2263.7	3020.7	3234.8
72.5°	5.0	7.6	8.4	9.7	11.4	14.8	22.4	123.3	1547.7	2304.3	2580.9
75°	5.0	7.1	7.6	8.4	10.1	13.5	19.8	64.6	1000.6	1600.9	1975.8
77.5°	5.0	6.7	7.6	8.0	9.7	11.9	17.3	40.5	666.7	1121.3	1335.3
80°	5.5	6.7	7.1	8.0	9.3	11.0	14.4	27.0	391.8	674.7	812.7
82.5°	5.9	6.7	7.6	8.4	9.7	10.6	12.7	16.9	180.7	446.2	504.9
85°	6.3	7.1	8.0	8.8	10.1	10.6	11.9	12.3	29.5	201.4	272.3
87.5°	6.7	7.6	8.4	9.3	11.0	11.0	11.0	11.0	10.1	21.5	54.9
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: P651740

CATALOG NUMBER: GALN-SA2A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7
2.5°	2071.2	2119.0	2152.3	2160.8	2136.6	2125.7	2095.3	2048.0	2019.3	2018.1
5°	2182.7	2294.6	2372.3	2385.3	2338.9	2260.4	2167.1	2046.7	1976.3	1955.2
7.5°	2163.7	2359.6	2484.6	2502.7	2424.6	2274.7	2094.0	1900.2	1823.5	1790.9
10°	2085.6	2324.5	2503.2	2531.8	2427.5	2216.5	1986.8	1770.6	1675.3	1650.3
12.5°	2018.9	2260.4	2419.1	2458.8	2379.9	2169.2	1922.6	1687.5	1585.3	1562.1
15°	1989.7	2184.4	2281.5	2301.7	2288.7	2139.7	1915.9	1674.9	1557.9	1532.6
17.5°	2018.9	2119.8	2132.0	2152.7	2181.9	2136.6	1980.9	1743.6	1617.4	1586.1
20°	2095.3	2063.6	2013.0	2021.8	2088.5	2148.9	2096.6	1896.0	1742.4	1709.0
22.5°	2225.4	2049.7	1934.9	1927.3	2011.8	2189.9	2266.3	2102.5	1924.3	1891.4
25°	2384.9	2084.8	1906.2	1889.7	1981.7	2249.8	2450.8	2355.4	2160.8	2110.5
27.5°	2558.9	2157.3	1906.2	1890.1	1979.2	2303.0	2608.7	2579.1	2405.6	2350.8
30°	2654.3	2217.3	1933.6	1915.5	2010.4	2333.9	2693.1	2778.0	2589.7	2521.7
32.5°	2739.6	2300.5	1987.2	1953.1	2075.9	2379.4	2768.7	2946.9	2736.2	2690.6
35°	2818.1	2389.5	2061.1	2021.4	2162.0	2441.9	2852.3	3124.1	2940.1	2871.3
37.5°	2904.6	2493.0	2176.3	2142.6	2305.9	2563.5	2951.5	3357.2	3140.6	3054.1
40°	2998.8	2612.9	2365.9	2351.6	2534.8	2701.1	3076.9	3605.9	3369.5	3271.1
42.5°	3094.6	2751.0	2598.1	2621.7	2794.1	2894.0	3205.6	3797.1	3556.9	3448.4
45°	3181.6	2927.4	2900.0	3016.9	3096.3	3082.3	3301.1	3931.8	3720.3	3616.5
47.5°	3291.3	3184.5	3265.2	3445.5	3447.6	3287.1	3373.3	4042.0	3860.9	3757.0
50°	3414.2	3488.1	3736.7	3920.4	3871.0	3488.6	3457.7	4172.5	4006.1	3922.9
52.5°	3556.5	3828.0	4172.5	4376.4	4261.1	3708.1	3598.3	4313.5	4236.6	4156.8
55°	3722.0	4059.8	4606.9	4769.4	4653.3	3980.8	3811.9	4504.7	4497.2	4442.7
57.5°	3909.1	4304.6	4858.5	5078.5	4975.0	4300.8	4110.4	4685.0	4656.3	4625.9
59°	4056.8	4430.4	4969.6	5197.5	5135.1	4525.0	4311.0	4797.3	4693.0	4647.5
60°	4146.3	4515.7	5010.5	5213.6	5199.2	4658.4	4438.0	4852.1	4692.6	4629.3
62.5°	4411.8	4664.7	4994.9	5142.2	5198.4	4914.2	4810.8	4912.5	4605.7	4512.7
65°	4506.4	4615.3	4736.1	4717.9	4766.0	4901.2	5048.9	4846.3	4419.9	4287.8
67.5°	4322.3	4073.6	4116.3	3995.2	3971.5	4357.4	4952.2	4522.1	4056.4	3894.7
70°	3643.5	3120.8	3099.3	3155.0	3002.2	3527.8	4446.9	3897.6	3456.4	3273.2
72.5°	2867.9	2205.5	2024.0	2229.2	2224.5	2691.5	3694.1	2765.7	2335.1	2319.5
75°	2255.3	1535.5	1347.6	1381.0	1445.2	1948.4	2942.2	1756.3	1437.9	1310.4
77.5°	1514.0	1088.0	1014.9	974.0	1043.3	1250.9	1861.4	952.4	806.4	763.7
80°	872.6	790.4	897.6	814.8	851.9	788.2	925.9	437.0	362.6	392.7
82.5°	567.8	450.0	479.6	356.3	487.2	491.4	297.2	129.2	109.3	116.1
85°	355.1	211.1	118.7	84.4	168.0	309.1	92.8	8.0	9.3	8.0
87.5°	92.0	35.1	14.8	22.0	27.0	24.1	21.5	1.3	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

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