

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: P647835

Luminaire Tested: **GALN-SA3A-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647835
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-SA3A-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 7676.5 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93
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

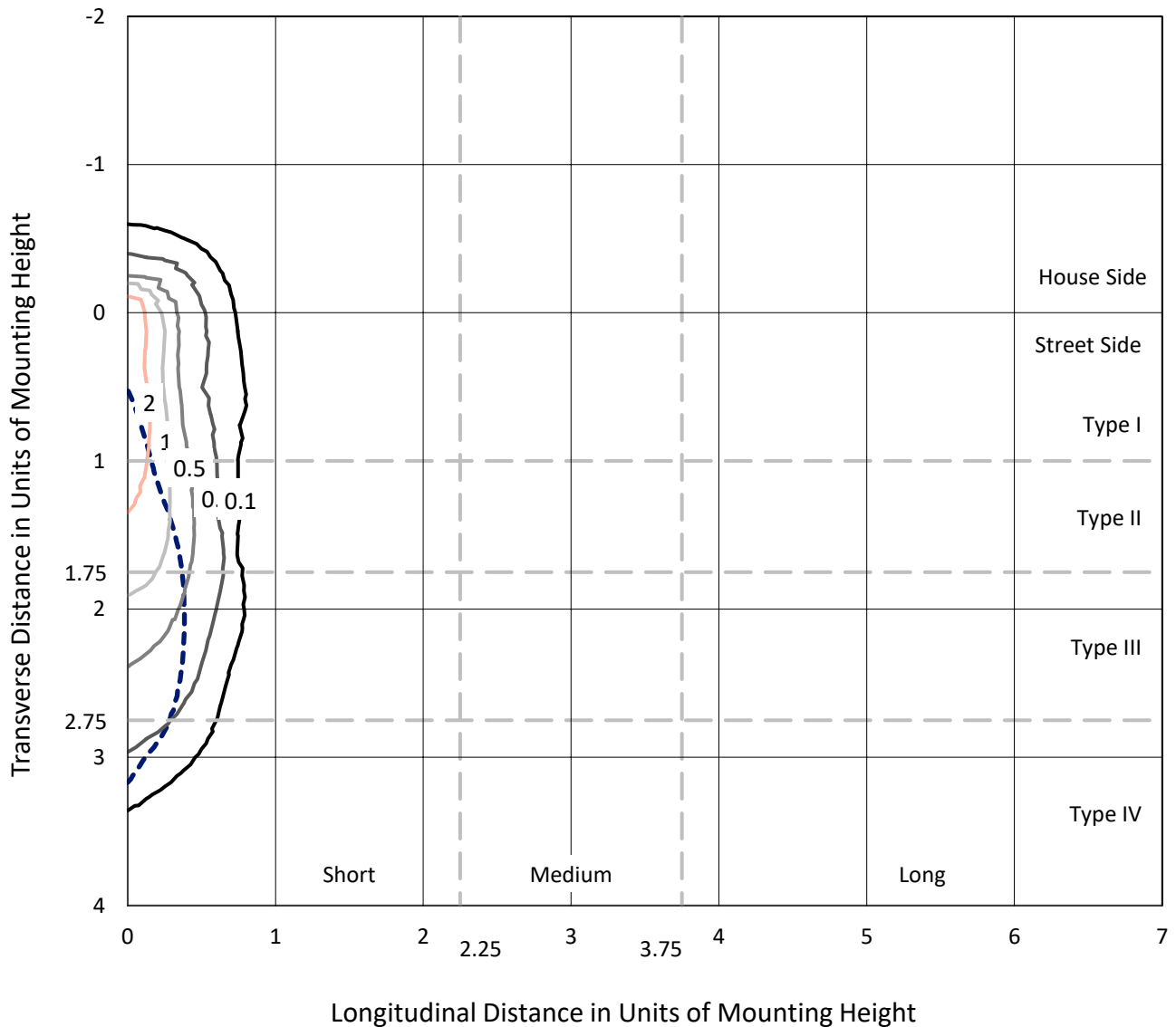




REPORT NUMBER: P647835
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

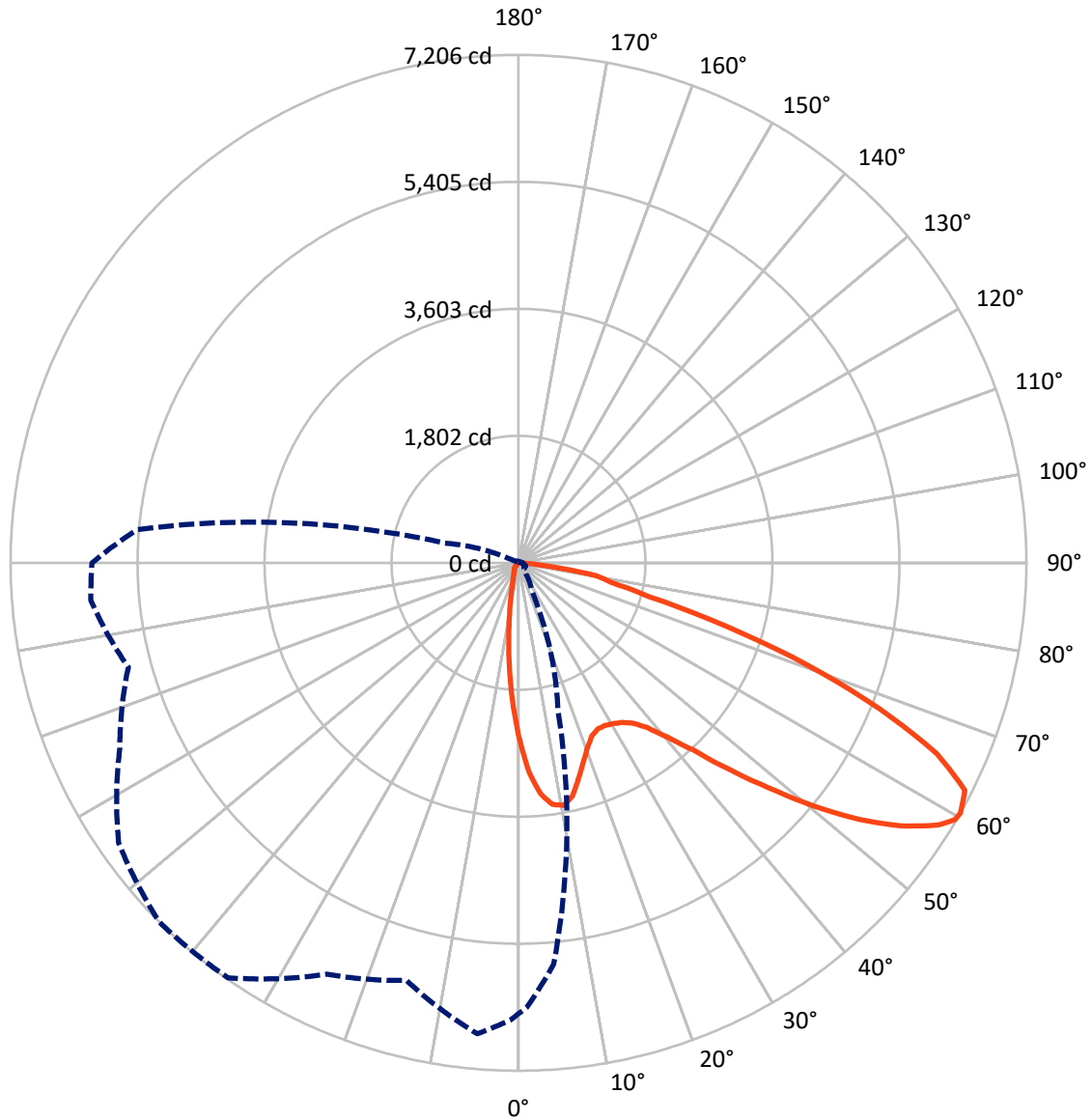
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P647835
CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647835
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

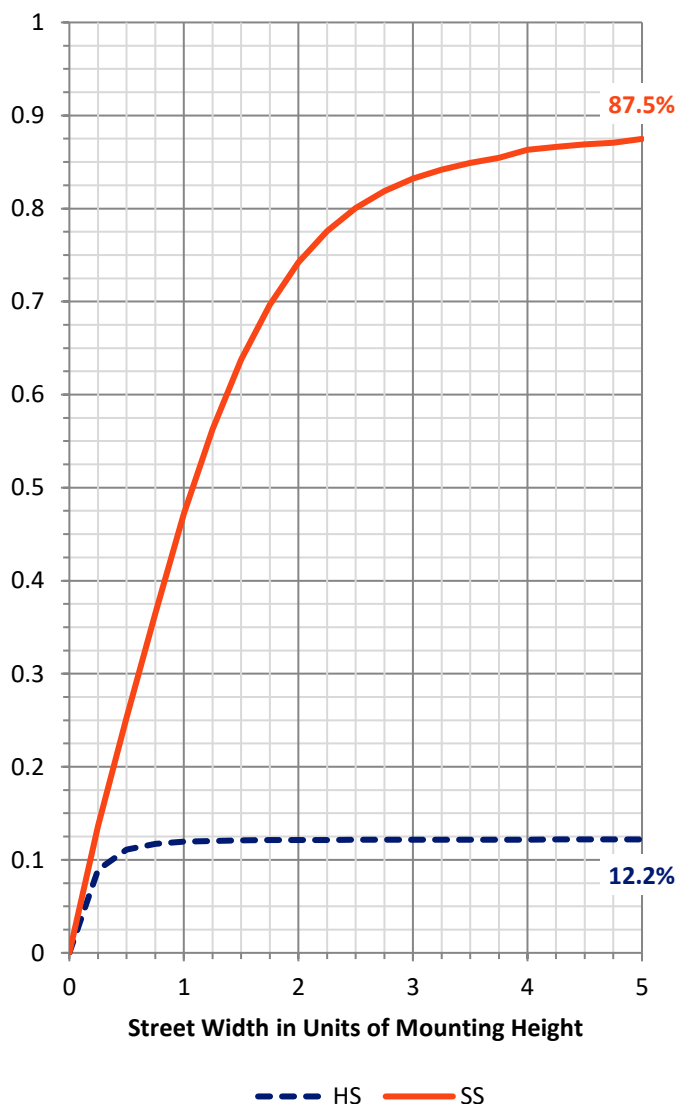
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.8	0.0	946.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	6729.7	0.0	6729.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	7676.5	0.0	7676.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	2.5
10°-20°	374.8	4.9
20°-30°	549.5	7.2
30°-40°	817.2	10.6
40°-50°	1189.3	15.5
50°-60°	1715.1	22.3
60°-70°	1886.4	24.6
70°-80°	845.0	11.0
80°-90°	110.4	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°	7676.5	100.0
0°-180°	7676.5	100.0

Coefficient of Utilization

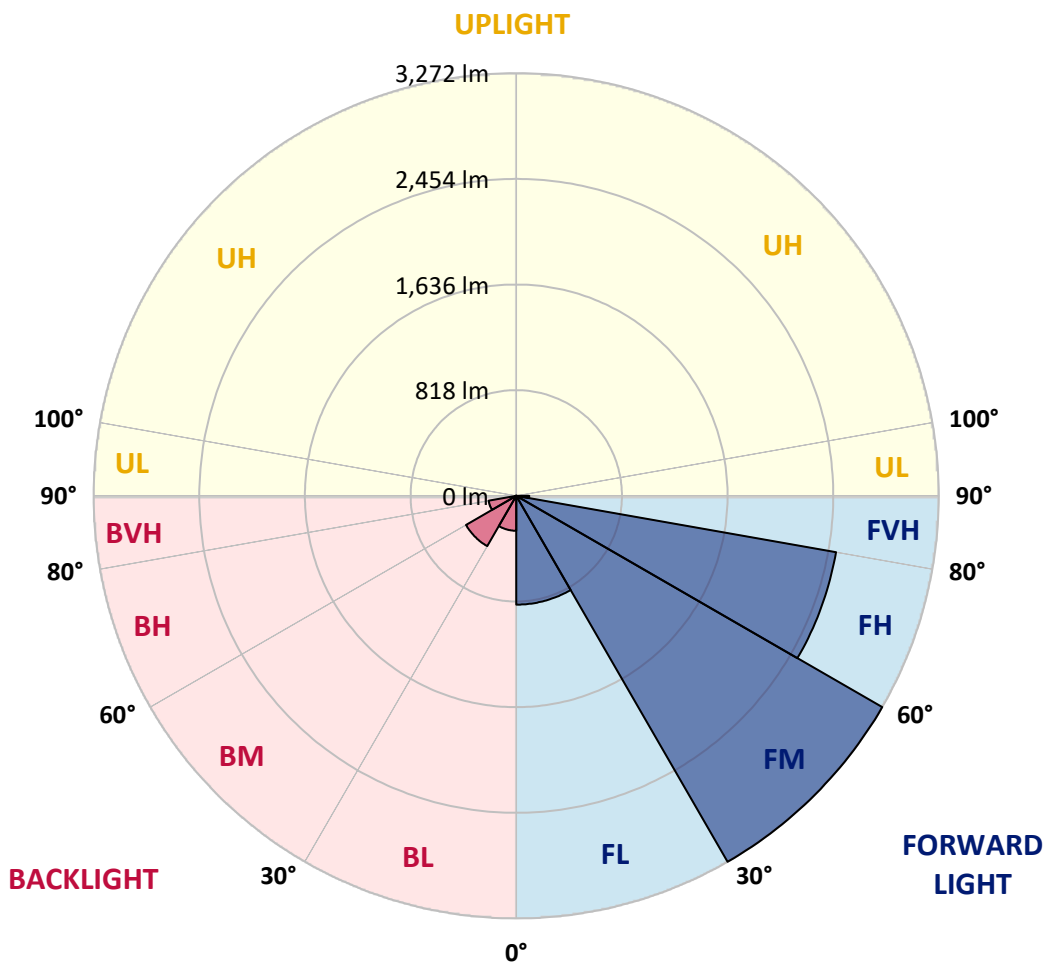


REPORT NUMBER: P647835
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.5	11.0			
FM (30°-60°)	3272.0	42.6			
FH (60°-80°)	2514.3	32.8			G2/5000
FVH (80°-90°)	101.0	1.3			G2/225
BL (0°-30°)	270.5	3.5	B1/500		
BM (30°-60°)	449.7	5.9	B1/1000		
BH (60°-80°)	217.1	2.8	B1/500		G1/500
BVH (80°-90°)	9.4	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-G2
 Type IV Short





REPORT NUMBER: P647835

CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2789.3	2777.1	2749.0	2663.8	2589.7	2492.8	2394.8	2317.8	2270.5	2183.6	2143.9
5°	2702.4	2708.2	2627.0	2452.0	2257.1	2124.0	1978.8	1863.2	1736.0	1655.5	1570.9
7.5°	2475.4	2463.7	2375.5	2131.6	1894.7	1702.2	1518.3	1369.0	1275.0	1199.7	1136.8
10°	2281.0	2272.3	2159.7	1845.7	1591.3	1447.1	1322.9	1192.2	1091.2	980.9	892.8
12.5°	2159.0	2139.2	2009.7	1681.7	1474.6	1340.3	1205.0	1069.0	929.6	818.1	711.4
15°	2118.2	2089.7	1945.5	1625.1	1399.9	1229.5	1059.7	903.3	742.8	619.7	539.2
17.5°	2192.3	2145.1	1991.6	1615.3	1310.6	1084.8	875.9	672.2	505.3	411.4	361.8
20°	2362.2	2307.9	2108.3	1605.3	1211.4	922.5	665.8	475.0	349.5	298.2	270.8
22.5°	2614.2	2539.5	2281.0	1621.0	1119.8	764.4	480.8	335.5	277.7	245.7	226.4
25°	2917.1	2854.7	2499.9	1677.1	1047.4	640.1	371.7	274.3	234.0	214.2	199.6
27.5°	3249.1	3149.3	2782.9	1744.2	981.5	543.9	326.2	245.1	208.4	190.3	182.7
30°	3485.4	3407.9	3019.8	1790.9	899.2	471.5	298.2	241.6	208.9	187.3	173.3
32.5°	3718.9	3619.7	3218.2	1812.5	839.1	421.3	257.9	210.6	183.2	172.1	158.2
35°	3968.6	3864.7	3416.0	1800.8	794.2	388.1	234.0	187.9	157.0	138.3	124.3
37.5°	4221.3	4111.6	3612.7	1758.8	766.2	374.7	215.3	178.5	148.2	129.0	113.8
40°	4521.2	4374.8	3797.1	1724.3	737.0	367.6	203.0	172.7	141.8	121.4	106.2
42.5°	4766.3	4626.8	3971.5	1706.2	717.1	351.3	203.0	168.0	137.7	114.9	99.2
45°	4998.5	4853.8	4160.0	1720.9	709.0	330.9	205.4	167.5	134.8	110.3	94.5
47.5°	5192.9	5067.4	4353.7	1775.7	698.5	308.7	193.2	175.6	133.0	106.2	89.9
50°	5422.2	5300.8	4609.9	1886.6	679.8	286.5	178.0	189.1	132.5	102.7	85.8
52.5°	5745.5	5614.2	4963.5	2012.6	650.0	252.7	164.0	187.3	130.1	96.9	81.7
55°	6140.5	6034.3	5373.2	2163.7	609.2	214.8	141.8	166.3	123.1	86.9	74.7
57.5°	6393.7	6303.3	5680.1	2229.1	546.8	175.6	124.9	139.5	112.6	77.6	66.6
59°	6423.6	6341.8	5744.3	2207.5	505.9	160.4	116.7	119.6	109.7	72.3	61.9
60°	6398.4	6313.8	5718.6	2165.5	468.0	149.9	109.7	106.2	110.3	69.5	58.3
62.5°	6237.4	6092.7	5469.5	1952.5	409.0	137.7	97.5	86.9	97.5	62.4	51.9
65°	5926.4	5709.3	4976.4	1652.6	385.7	130.7	82.8	73.0	74.1	54.9	44.9
67.5°	5383.1	5109.4	4319.9	1342.7	375.8	131.3	70.0	65.4	57.2	46.7	39.7
70°	4524.2	4251.1	3466.2	1104.7	371.1	131.3	59.5	56.0	47.8	39.1	34.5
72.5°	3205.9	2911.8	2338.2	867.7	334.3	130.7	50.7	50.7	39.1	32.7	28.0
75°	1811.3	1813.6	1469.9	613.9	277.7	108.0	40.9	40.2	28.6	25.1	21.0
77.5°	1055.6	1036.9	990.8	263.8	129.0	49.0	28.6	24.5	19.8	18.1	15.2
80°	542.7	446.4	434.7	95.7	46.1	30.9	19.8	14.0	12.8	11.7	10.5
82.5°	160.4	161.1	143.5	38.5	25.7	20.4	9.9	7.6	7.0	6.4	6.4
85°	11.1	7.0	8.1	11.7	15.7	8.1	0.5	1.7	1.7	2.3	2.9
87.5°	1.2	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: P647835
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2100.2	2125.8	2077.9	2079.1	2039.5	2052.3	2005.6	2020.8	1993.4	2014.3	2076.2
5°	1580.2	1586.0	1547.5	1535.3	1541.1	1565.1	1574.4	1531.8	1549.9	1514.2	1512.0
7.5°	1113.3	1120.4	1098.2	1095.3	1137.3	1127.4	1145.5	1101.7	1060.3	1078.3	1045.1
10°	864.8	835.6	790.1	777.3	769.1	774.4	774.4	734.7	728.8	713.1	737.0
12.5°	682.7	647.1	603.9	545.6	531.0	529.9	508.2	473.2	462.1	448.7	468.5
15°	496.0	481.4	445.2	412.6	379.3	372.9	337.9	309.3	271.3	266.1	264.3
17.5°	349.0	327.4	326.7	308.1	288.8	276.0	243.4	210.6	196.1	194.3	194.3
20°	261.4	253.8	241.6	239.3	233.4	218.8	189.6	172.1	165.1	165.8	168.0
22.5°	220.0	214.8	203.7	198.4	196.1	183.2	161.6	149.9	146.5	146.5	147.0
25°	196.7	192.0	179.7	171.6	168.7	159.3	142.3	133.7	130.7	130.7	130.7
27.5°	179.2	173.3	160.4	153.5	148.2	137.7	127.2	118.5	115.6	115.6	116.1
30°	166.9	160.4	148.8	139.5	131.3	122.0	113.2	105.6	102.1	101.6	102.1
32.5°	150.6	144.7	133.0	127.2	117.8	106.8	99.8	92.8	89.3	89.9	89.3
35°	117.3	115.6	107.3	109.2	103.9	94.5	88.1	80.5	76.4	75.9	77.0
37.5°	106.8	99.8	90.4	91.1	89.3	85.8	75.2	67.1	64.2	64.2	64.8
40°	98.6	91.6	81.1	75.9	76.4	76.4	65.4	56.6	53.7	53.1	54.3
42.5°	91.6	84.6	73.0	64.2	61.9	64.8	55.4	46.7	43.8	42.6	43.8
45°	86.9	79.4	65.9	56.0	49.0	52.5	45.5	38.5	35.0	35.0	34.5
47.5°	82.3	75.2	60.7	48.5	40.9	39.1	37.3	30.9	27.4	26.9	27.4
50°	78.2	71.2	54.9	42.0	34.5	30.4	30.4	24.5	22.2	21.0	21.6
52.5°	74.1	66.6	49.6	37.3	29.8	24.5	21.6	19.8	18.1	17.5	18.1
55°	68.3	60.7	44.3	32.1	25.7	20.4	16.9	16.4	15.2	14.0	15.2
57.5°	61.3	54.3	39.1	27.4	20.4	15.7	14.0	13.4	12.3	11.7	11.7
59°	57.2	50.7	36.2	24.0	18.1	14.0	12.8	12.3	11.1	9.9	10.5
60°	54.9	49.6	34.5	22.2	16.4	12.8	11.7	11.1	9.9	9.3	9.9
62.5°	48.5	44.3	30.4	18.1	12.8	9.3	8.1	8.8	8.1	7.6	8.1
65°	42.6	39.1	25.7	14.0	9.9	6.4	5.9	7.6	7.0	6.4	7.0
67.5°	37.9	33.8	21.6	10.5	7.0	3.5	4.1	6.4	6.4	5.9	6.4
70°	32.7	29.2	17.5	7.6	3.5	1.7	2.9	4.7	5.9	5.2	5.9
72.5°	26.9	22.8	13.4	5.2	1.7	0.0	1.7	4.1	5.9	5.2	5.9
75°	21.0	16.9	9.9	2.9	0.0	0.0	0.5	3.5	5.9	5.2	5.9
77.5°	15.2	12.3	5.9	0.5	0.0	0.0	0.5	3.5	5.9	5.2	5.9
80°	9.9	8.8	2.3	0.0	0.0	0.0	0.5	3.5	5.9	5.9	6.4
82.5°	6.4	4.7	0.0	0.0	0.0	0.0	1.2	4.7	6.4	7.0	7.0
85°	2.9	0.0	0.0	0.0	0.0	0.0	2.3	5.9	7.6	7.6	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	4.1	7.0	8.8	8.8	8.8
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: P647835
 CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2086.7	2123.5	2175.4	2255.4	2320.1	2422.2	2500.4	2607.2	2715.2	2747.9	2798.6
5°	1535.9	1583.1	1701.0	1808.3	1876.1	2091.9	2228.5	2443.8	2637.0	2729.8	2830.7
7.5°	1066.7	1122.7	1212.6	1362.6	1504.9	1680.6	1901.1	2147.4	2430.4	2562.9	2705.3
10°	748.7	818.7	945.3	1068.5	1247.6	1414.5	1632.2	1904.1	2216.3	2372.6	2551.2
12.5°	472.7	535.1	702.6	840.9	1064.3	1258.1	1458.8	1705.1	2066.9	2227.3	2414.7
15°	270.2	322.7	400.9	578.2	826.3	1082.4	1332.8	1618.7	1990.5	2188.3	2390.7
17.5°	201.3	215.3	250.3	350.7	576.5	875.9	1216.7	1592.5	2042.4	2274.6	2505.7
20°	169.2	178.5	194.9	234.6	367.6	674.6	1103.5	1597.2	2210.4	2502.2	2721.6
22.5°	151.7	157.5	171.0	196.7	251.0	491.3	971.0	1624.6	2414.1	2781.7	3035.0
25°	133.0	140.6	152.3	174.5	208.9	340.8	840.3	1685.8	2699.4	3136.5	3374.6
27.5°	118.5	125.4	137.1	157.5	183.2	260.3	688.0	1738.3	3000.5	3493.6	3688.5
30°	103.9	110.9	122.5	138.9	162.2	210.6	524.0	1769.3	3292.9	3761.5	3911.4
32.5°	91.6	97.5	108.5	123.1	142.3	178.5	413.1	1737.2	3516.4	4004.8	4105.2
35°	79.4	86.4	95.7	109.2	126.1	152.3	343.7	1626.3	3708.4	4255.1	4291.3
37.5°	66.6	74.7	84.6	96.9	110.3	140.1	276.0	1503.8	3913.7	4567.3	4507.8
40°	56.0	63.6	73.0	86.4	98.6	128.4	212.4	1373.1	4135.5	4860.2	4744.1
42.5°	45.5	53.7	64.8	77.0	97.5	112.0	164.6	1237.7	4334.5	5115.3	4957.7
45°	36.2	43.1	54.9	70.6	96.9	96.3	127.2	1104.0	4484.5	5297.3	5117.0
47.5°	28.6	34.5	46.1	68.8	89.3	81.7	102.1	1021.2	4642.0	5461.3	5239.0
50°	22.8	28.6	39.7	71.8	78.2	70.0	85.8	1034.6	4794.3	5544.7	5289.2
52.5°	19.3	25.1	34.5	56.6	60.1	61.3	75.2	1096.4	4991.0	5634.0	5388.9
55°	16.9	22.2	29.2	39.7	46.7	54.9	68.8	1141.4	5254.2	5825.4	5608.9
57.5°	13.4	19.3	26.2	33.8	38.5	47.8	63.6	1144.9	5492.2	6071.1	5901.2
59°	12.3	17.5	24.5	32.1	34.5	43.1	60.1	1115.1	5501.0	6107.9	6035.5
60°	11.1	16.9	23.3	29.8	32.7	40.9	57.2	1080.7	5421.6	6049.5	6091.0
62.5°	9.3	14.6	20.4	24.0	28.0	33.8	49.6	955.8	5037.0	5785.1	5988.2
65°	8.1	12.8	17.5	19.8	23.3	29.2	43.8	765.0	4612.3	5426.9	5694.1
67.5°	7.6	11.7	15.2	16.9	20.4	26.9	39.1	540.3	4062.0	4972.3	5252.4
70°	7.0	11.1	13.4	15.7	18.1	22.8	33.3	315.1	3128.9	4175.2	4471.0
72.5°	7.0	10.5	11.7	13.4	15.7	20.4	30.9	170.4	2139.2	3184.9	3567.1
75°	7.0	9.9	10.5	11.7	14.0	18.6	27.4	89.3	1383.0	2212.8	2730.9
77.5°	7.0	9.3	10.5	11.1	13.4	16.4	24.0	56.0	921.4	1549.9	1845.7
80°	7.6	9.3	9.9	11.1	12.8	15.2	19.8	37.3	541.5	932.5	1123.3
82.5°	8.1	9.3	10.5	11.7	13.4	14.6	17.5	23.3	249.8	616.8	697.9
85°	8.8	9.9	11.1	12.3	14.0	14.6	16.4	16.9	40.9	278.4	376.4
87.5°	9.3	10.5	11.7	12.8	15.2	15.2	15.2	15.2	14.0	29.8	75.9
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: P647835

CATALOG NUMBER: GALN-SA3A-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2862.8	2928.7	2974.9	2986.5	2953.2	2938.1	2896.1	2830.7	2791.0	2789.3
5°	3016.9	3171.5	3278.9	3297.0	3232.8	3124.2	2995.3	2829.0	2731.5	2702.4
7.5°	2990.6	3261.4	3434.1	3459.2	3351.2	3144.1	2894.4	2626.5	2520.2	2475.4
10°	2882.7	3213.0	3459.8	3499.5	3355.3	3063.6	2746.1	2447.3	2315.5	2281.0
12.5°	2790.5	3124.2	3343.6	3398.5	3289.4	2998.2	2657.4	2332.4	2191.1	2159.0
15°	2750.2	3019.2	3153.4	3181.4	3163.3	2957.3	2648.1	2314.9	2153.2	2118.2
17.5°	2790.5	2929.9	2946.8	2975.4	3015.7	2953.2	2737.9	2410.0	2235.5	2192.3
20°	2896.1	2852.3	2782.3	2794.5	2886.8	2970.2	2897.8	2620.6	2408.3	2362.2
22.5°	3075.8	2833.1	2674.3	2663.8	2780.5	3026.8	3132.4	2906.0	2659.8	2614.2
25°	3296.4	2881.5	2634.6	2611.9	2739.1	3109.7	3387.4	3255.6	2986.5	2917.1
27.5°	3536.8	2981.8	2634.6	2612.5	2735.6	3183.2	3605.6	3564.8	3325.0	3249.1
30°	3668.7	3064.7	2672.6	2647.5	2778.8	3225.8	3722.4	3839.7	3579.4	3485.4
32.5°	3786.5	3179.7	2746.7	2699.4	2869.2	3288.8	3826.8	4073.1	3781.9	3718.9
35°	3895.1	3302.8	2848.8	2794.0	2988.2	3375.1	3942.3	4318.2	4063.7	3968.6
37.5°	4014.7	3445.7	3008.1	2961.5	3187.3	3543.2	4079.5	4640.3	4340.9	4221.3
40°	4144.8	3611.5	3270.1	3250.3	3503.5	3733.4	4252.8	4984.0	4657.2	4521.2
42.5°	4277.3	3802.3	3591.1	3623.7	3861.8	4000.1	4430.8	5248.3	4916.3	4766.3
45°	4397.5	4046.2	4008.3	4169.9	4279.6	4260.4	4562.6	5434.4	5142.1	4998.5
47.5°	4549.2	4401.6	4513.1	4762.2	4765.1	4543.4	4662.5	5586.8	5336.4	5192.9
50°	4719.1	4821.2	5164.8	5418.7	5350.4	4821.7	4779.1	5767.0	5537.1	5422.2
52.5°	4915.7	5290.9	5767.0	6048.9	5889.6	5125.2	4973.5	5962.0	5855.7	5745.5
55°	5144.5	5611.3	6367.5	6592.2	6431.7	5502.1	5268.7	6226.3	6215.8	6140.5
57.5°	5402.9	5949.7	6715.3	7019.4	6876.4	5944.5	5681.3	6475.5	6435.8	6393.7
59°	5607.1	6123.6	6868.8	7183.9	7097.5	6254.3	5958.5	6630.7	6486.5	6423.6
60°	5730.9	6241.4	6925.4	7206.0	7186.2	6438.7	6134.1	6706.6	6486.0	6398.4
62.5°	6097.9	6447.5	6903.8	7107.4	7185.0	6792.4	6649.4	6790.0	6365.8	6237.4
65°	6228.6	6379.2	6546.1	6521.0	6587.5	6774.2	6978.5	6698.4	6109.0	5926.4
67.5°	5974.2	5630.6	5689.4	5522.0	5489.3	6022.7	6844.8	6250.2	5606.6	5383.1
70°	5035.9	4313.5	4283.7	4360.8	4149.5	4876.0	6146.4	5387.2	4777.4	4524.2
72.5°	3963.9	3048.4	2797.4	3081.0	3074.6	3720.0	5105.9	3822.8	3227.5	3205.9
75°	3117.2	2122.3	1862.6	1908.7	1997.4	2693.0	4066.7	2427.5	1987.5	1811.3
77.5°	2092.6	1503.8	1402.8	1346.2	1441.9	1729.0	2572.8	1316.5	1114.5	1055.6
80°	1206.1	1092.4	1240.6	1126.2	1177.6	1089.5	1279.7	603.9	501.3	542.7
82.5°	784.9	622.0	662.9	492.5	673.4	679.3	410.8	178.5	151.1	160.4
85°	490.8	291.7	164.0	116.7	232.2	427.1	128.4	11.1	12.8	11.1
87.5°	127.2	48.5	20.4	30.4	37.3	33.3	29.8	1.7	0.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)