

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: P651793

Luminaire Tested: **GALN-SA3A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6347 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

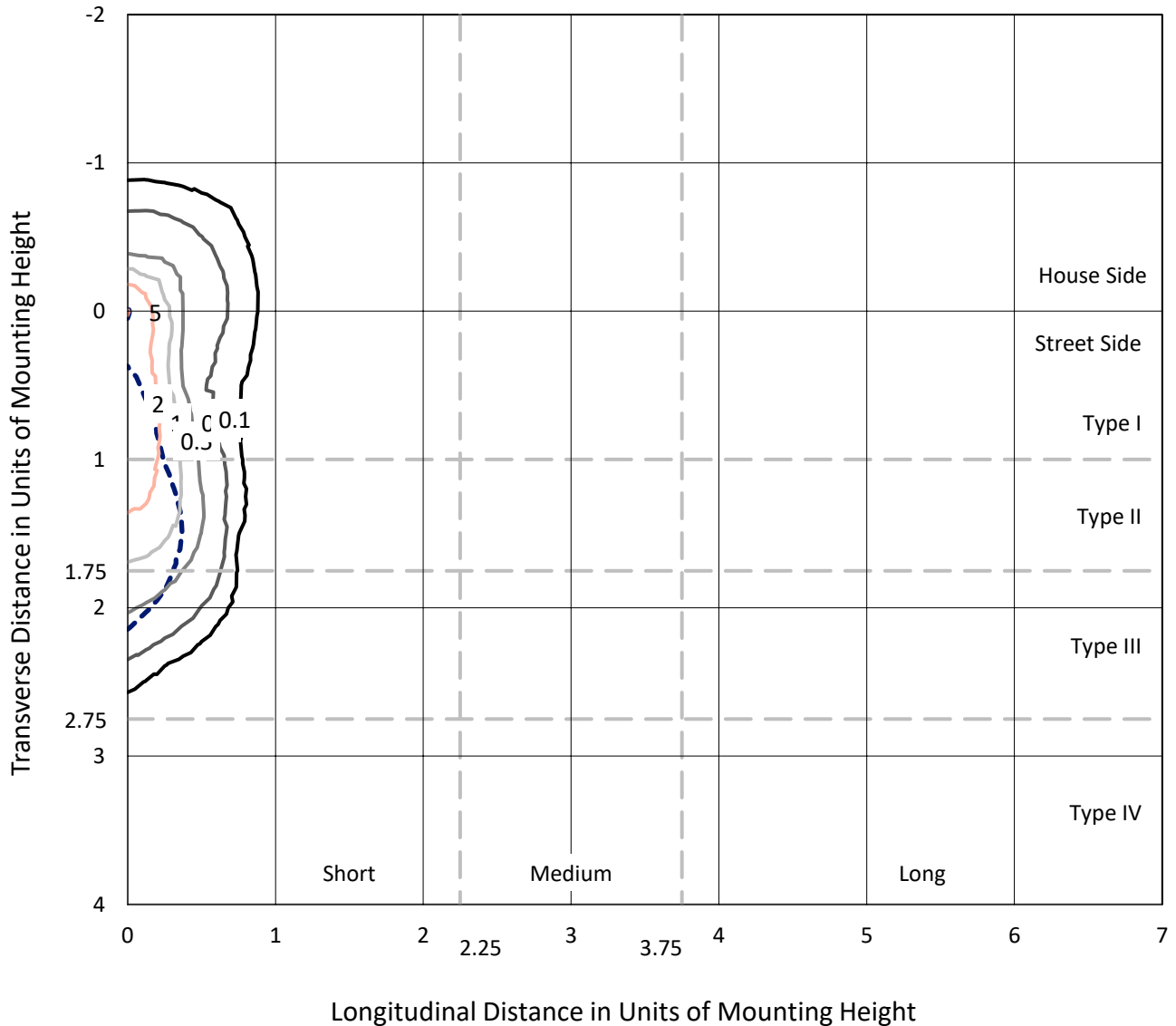
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651793
 CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

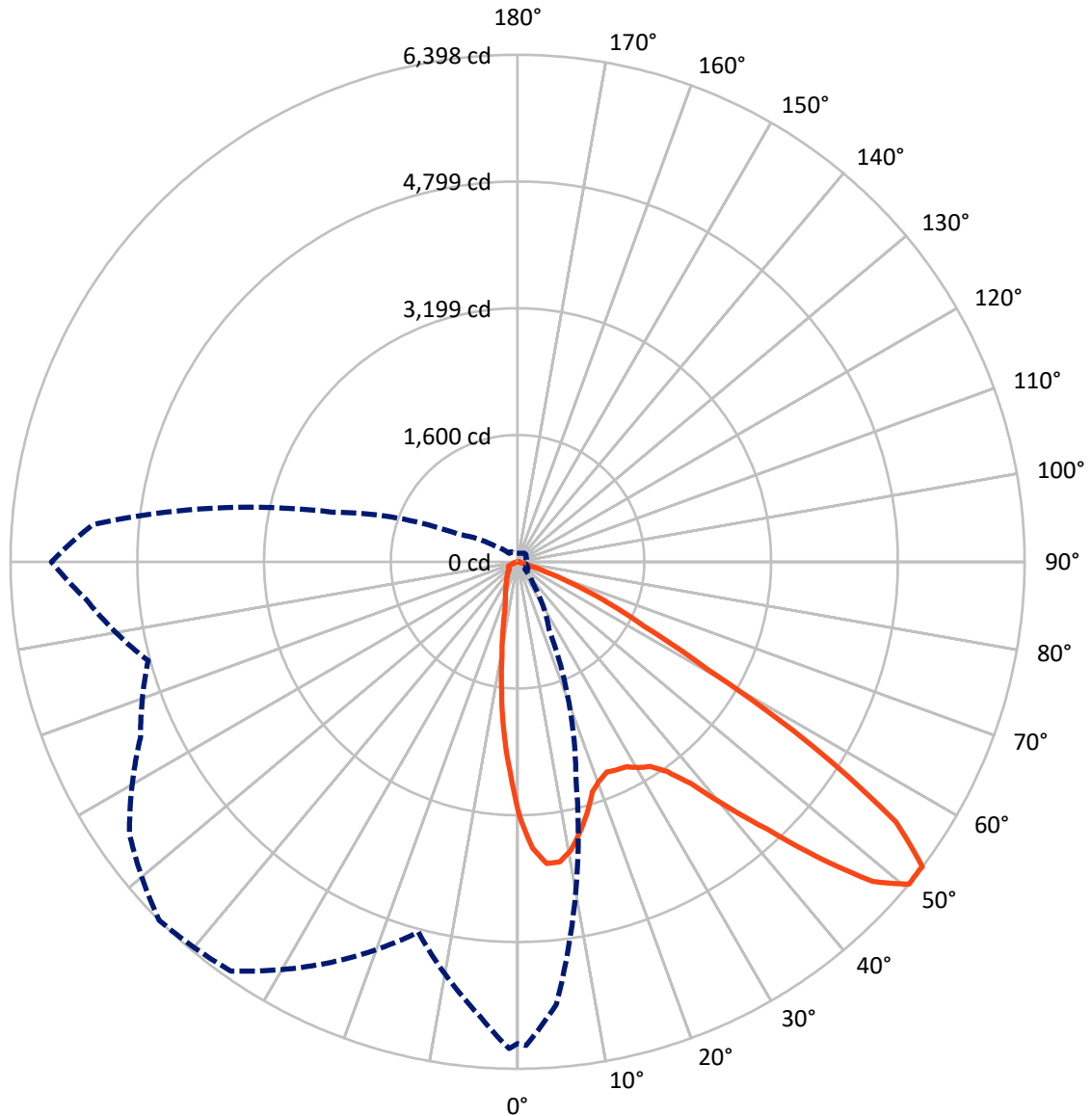
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

REPORT NUMBER: P651793
CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P651793
 CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

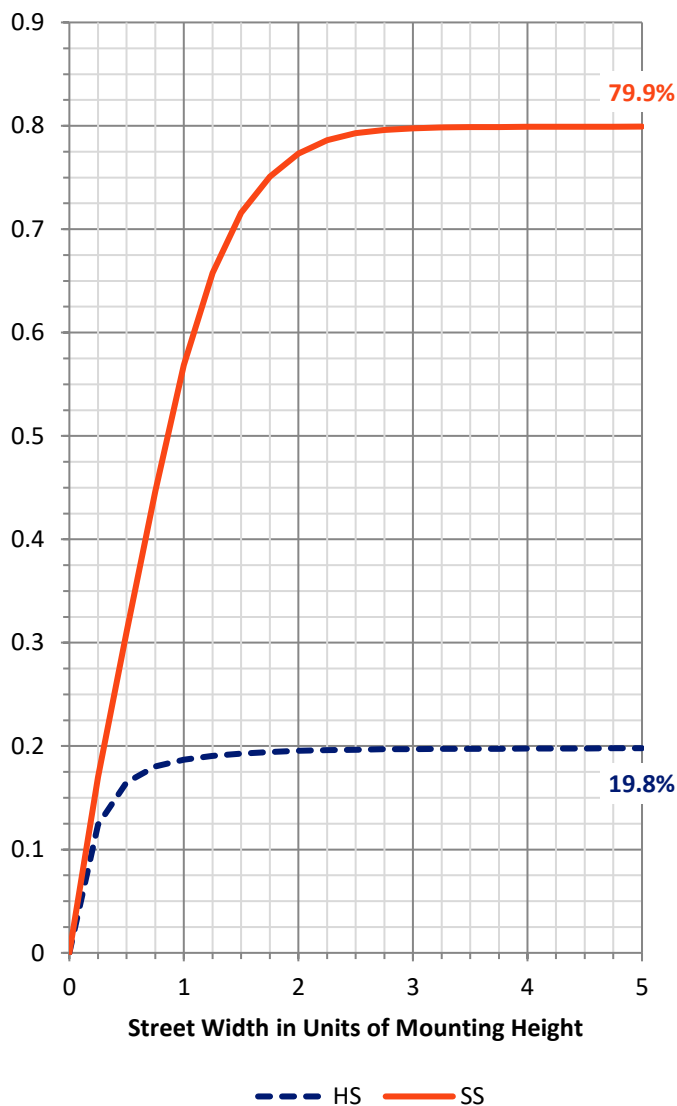
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1271.3	0.0	1271.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	5075.7	0.0	5075.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	6347.0	0.0	6347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	3.7
10°-20°	466.3	7.3
20°-30°	700.5	11.0
30°-40°	1051.4	16.6
40°-50°	1477.7	23.3
50°-60°	1594.0	25.1
60°-70°	740.1	11.7
70°-80°	69.6	1.1
80°-90°	12.8	0.2
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°	6347.0	100.0
0°-180°	6347.0	100.0

Coefficient of Utilization

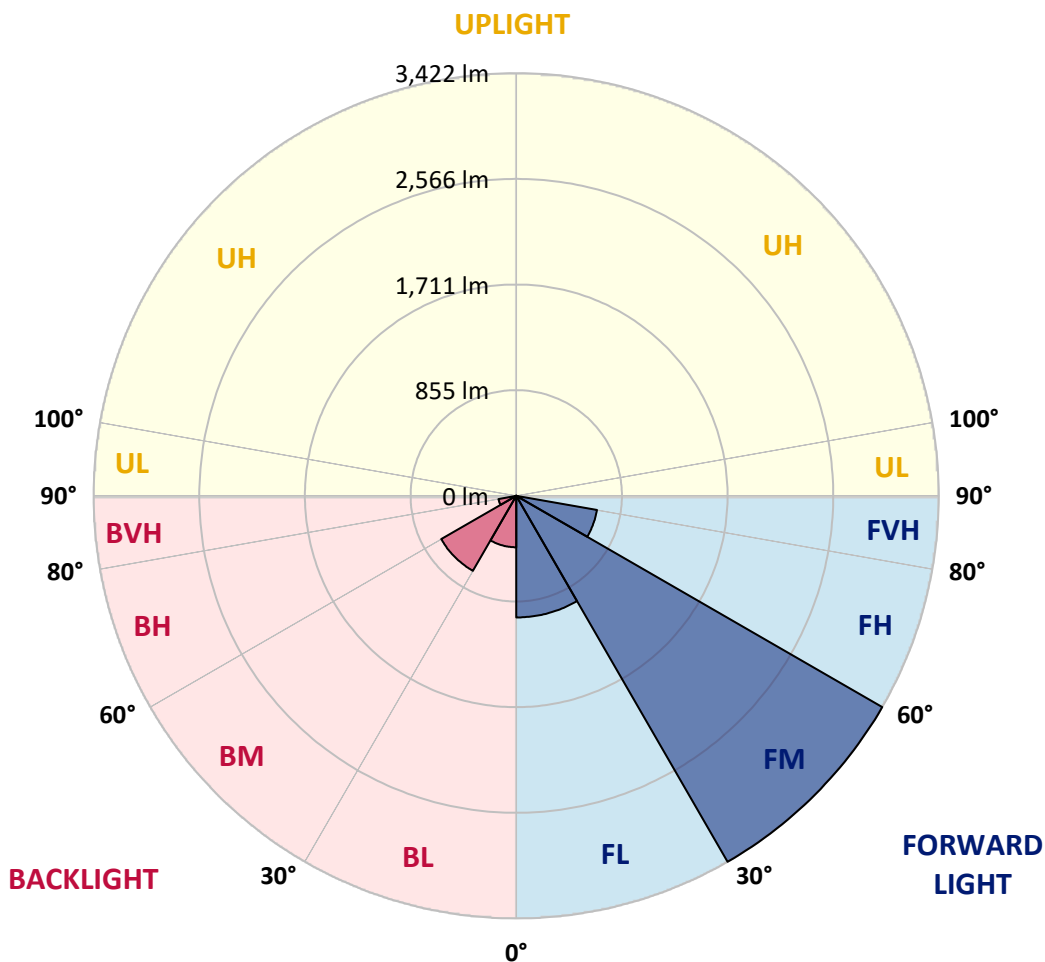


REPORT NUMBER: P651793
 CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.7	15.5			
FM (30°-60°)	3421.5	53.9			
FH (60°-80°)	663.7	10.5			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	416.7	6.6	B1/500		
BM (30°-60°)	701.6	11.1	B1/1000		
BH (60°-80°)	146.0	2.3	B1/500		G1/500
BVH (80°-90°)	7.1	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 III Short





REPORT NUMBER: P651793

CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	3345.9	3294.3	3228.9	3174.7	3094.0	2931.6	2887.6	2834.7	2790.6	2731.4	2648.3
5°	3042.4	3026.1	2995.8	2791.9	2644.5	2448.1	2286.8	2218.9	2129.5	2056.4	2003.5
7.5°	2810.7	2745.3	2649.6	2444.3	2208.8	1998.5	1819.7	1715.1	1596.8	1556.5	1484.7
10°	2562.7	2577.7	2436.7	2148.3	1863.7	1693.8	1582.9	1482.2	1375.1	1304.6	1202.6
12.5°	2483.3	2434.2	2325.9	1969.5	1726.5	1567.8	1433.1	1308.4	1195.1	1081.7	983.5
15°	2534.9	2459.4	2308.3	1931.8	1620.7	1423.0	1254.3	1085.5	981.0	836.2	734.2
17.5°	2720.0	2659.6	2456.9	1972.1	1566.5	1284.5	1033.8	860.1	700.1	569.2	517.6
20°	3028.6	2943.0	2688.6	2023.7	1486.0	1117.0	838.6	624.6	473.5	418.1	389.1
22.5°	3330.8	3284.2	2963.1	2123.2	1414.1	968.4	629.7	420.6	353.9	343.8	324.9
25°	3906.3	3766.5	3382.4	2303.2	1358.8	828.6	474.7	338.8	299.7	292.2	294.7
27.5°	4248.8	4131.7	3770.3	2422.8	1297.1	721.6	401.7	311.1	284.6	268.2	262.0
30°	4577.5	4441.5	3963.0	2493.4	1164.9	608.2	356.4	298.5	292.2	268.2	260.7
32.5°	4830.6	4697.2	4241.2	2599.2	1110.7	535.2	293.4	233.0	216.6	214.1	236.7
35°	5218.5	5076.2	4479.3	2657.1	1069.2	497.5	254.4	207.8	188.9	181.3	182.6
37.5°	5580.0	5483.0	4699.7	2679.8	1025.1	486.1	227.9	186.4	170.0	165.0	163.7
40°	5882.1	5665.6	4908.7	2703.7	1006.2	464.7	211.6	170.0	158.7	151.1	151.1
42.5°	6020.6	5800.3	5143.0	2689.9	1001.1	430.7	211.6	156.2	147.3	139.8	138.5
45°	5990.4	5901.0	5247.4	2683.5	1001.1	396.7	192.7	152.4	139.8	129.7	127.2
47.5°	6068.5	5951.4	5378.4	2710.0	981.0	372.7	162.5	160.0	132.2	119.7	117.2
50°	6082.4	6105.1	5606.4	2847.3	936.9	342.5	127.2	157.4	127.2	108.3	105.8
52°	6173.0	6032.0	5675.7	2920.3	890.3	319.8	107.1	134.7	122.1	100.8	98.2
52.5°	6048.4	6140.3	5692.0	2946.7	895.3	304.8	103.3	132.2	119.7	100.8	94.4
55°	5908.6	5996.8	5625.3	3003.4	821.1	239.3	80.6	95.7	108.3	88.1	84.4
57.5°	5135.4	5224.8	4888.6	2750.3	668.7	168.7	66.8	71.8	95.7	81.8	78.0
60°	4564.9	4500.7	4102.7	2294.4	474.7	94.4	52.9	55.4	104.5	75.5	74.3
62.5°	4172.0	4034.8	3429.0	1771.8	289.6	63.0	41.5	42.8	80.6	70.6	70.6
65°	3086.6	2932.9	2278.0	1071.7	142.3	44.1	31.5	34.0	50.4	60.5	60.5
67.5°	1761.7	1702.5	1100.6	483.6	59.2	27.7	24.0	26.4	39.0	49.1	46.6
70°	809.7	726.6	423.1	102.0	27.7	18.9	18.9	21.4	31.5	36.5	34.0
72.5°	236.7	224.1	103.3	16.4	11.4	11.4	12.6	16.4	24.0	27.7	25.1
75°	17.7	11.4	7.6	5.0	5.0	7.6	10.1	16.4	24.0	26.4	21.4
77.5°	1.3	2.5	1.3	1.3	3.8	7.6	11.4	20.2	31.5	32.7	24.0
80°	1.3	1.3	0.0	1.3	3.8	7.6	12.6	22.7	35.2	37.8	20.2
82.5°	0.0	0.0	0.0	1.3	5.0	10.1	15.1	24.0	32.7	40.3	21.4
85°	0.0	0.0	0.0	1.3	7.6	13.9	17.7	6.3	3.8	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: P651793

CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	2707.4	2674.7	2662.1	2673.5	2669.7	2665.9	2735.2	2720.0	2717.5	2740.2	2735.2
5°	2032.5	1974.6	2133.2	2069.0	2135.7	2176.1	2183.6	2187.4	2233.9	2184.8	2249.1
7.5°	1448.2	1463.3	1462.0	1504.9	1581.7	1649.7	1690.0	1658.5	1655.9	1649.7	1622.0
10°	1157.3	1130.8	1125.8	1115.8	1139.6	1197.6	1246.7	1207.7	1179.9	1217.8	1206.4
12.5°	945.7	909.2	889.0	848.7	850.0	889.0	889.0	889.0	916.8	938.1	954.5
15°	725.4	695.1	695.1	654.8	646.1	647.2	667.4	669.9	714.0	726.6	732.9
17.5°	507.5	491.1	510.0	526.4	516.3	518.8	526.4	528.9	535.2	530.2	542.8
20°	390.4	387.9	392.9	421.8	443.3	455.8	447.1	434.5	426.9	409.2	409.2
22.5°	331.2	336.2	345.1	368.9	396.7	404.3	394.2	365.2	342.5	340.0	341.3
25°	294.7	299.7	313.5	328.7	343.8	356.4	346.3	324.9	312.3	301.0	301.0
27.5°	272.0	274.5	282.1	293.4	306.0	316.0	312.3	301.0	287.1	282.1	270.7
30°	254.4	258.2	266.9	269.5	280.8	285.9	279.5	277.0	268.2	262.0	258.2
32.5°	245.6	244.3	250.6	253.1	254.4	258.2	250.6	254.4	253.1	243.0	239.3
35°	185.1	195.2	211.6	225.4	229.2	234.2	233.0	227.9	214.1	202.8	188.9
37.5°	166.3	172.5	181.3	192.7	207.8	214.1	211.6	199.0	182.6	175.0	172.5
40°	153.7	157.4	165.0	172.5	187.6	199.0	190.2	178.8	166.3	160.0	156.2
42.5°	142.3	143.6	147.3	154.9	166.3	183.8	168.7	153.7	148.6	144.8	142.3
45°	129.7	129.7	134.7	138.5	151.1	167.5	152.4	138.5	136.0	133.5	132.2
47.5°	119.7	120.9	123.4	128.4	138.5	149.9	139.8	128.4	122.1	120.9	118.4
50°	107.1	108.3	113.4	118.4	130.9	137.3	130.9	118.4	112.1	108.3	108.3
52°	97.0	100.8	105.8	115.9	124.6	134.7	127.2	113.4	105.8	102.0	99.5
52.5°	95.7	98.2	103.3	114.6	124.6	133.5	125.9	112.1	103.3	100.8	98.2
55°	85.6	89.4	98.2	112.1	123.4	133.5	123.4	110.8	98.2	91.9	89.4
57.5°	81.8	84.4	95.7	113.4	122.1	133.5	123.4	110.8	98.2	86.9	84.4
60°	78.0	83.1	95.7	109.6	120.9	134.7	124.6	109.6	95.7	81.8	81.8
62.5°	74.3	78.0	94.4	107.1	115.9	129.7	119.7	107.1	91.9	78.0	76.8
65°	64.3	70.6	83.1	89.4	99.5	112.1	102.0	93.2	80.6	69.3	68.0
67.5°	49.1	51.6	61.7	69.3	75.5	86.9	81.8	70.6	61.7	52.9	52.9
70°	34.0	36.5	44.1	47.9	54.2	60.5	56.7	47.9	41.5	36.5	35.2
72.5°	24.0	25.1	27.7	30.2	32.7	35.2	34.0	27.7	24.0	22.7	21.4
75°	18.9	21.4	22.7	21.4	20.2	18.9	18.9	16.4	13.9	12.6	12.6
77.5°	18.9	20.2	18.9	16.4	13.9	12.6	11.4	10.1	7.6	6.3	7.6
80°	16.4	16.4	16.4	13.9	12.6	11.4	10.1	8.8	7.6	6.3	6.3
82.5°	17.7	17.7	16.4	13.9	13.9	11.4	11.4	10.1	8.8	6.3	6.3
85°	0.0	0.0	0.0	2.5	6.3	11.4	11.4	10.1	8.8	7.6	7.6
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	5.0	6.3	7.6	7.6	7.6
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: P651793

CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	2780.5	2828.4	2919.0	3009.7	3065.1	3130.6	3249.0	3311.9	3393.8	3434.1	3513.4
5°	2240.3	2353.6	2393.9	2497.2	2608.0	2718.8	2895.1	3089.1	3250.2	3361.1	3504.6
7.5°	1634.6	1661.0	1817.1	1886.4	2067.8	2269.3	2509.8	2754.1	2958.0	3139.4	3249.0
10°	1225.3	1322.2	1420.4	1552.7	1698.8	1906.5	2137.0	2406.5	2670.9	2852.3	2990.8
12.5°	984.7	1061.6	1192.5	1334.8	1514.9	1652.2	1883.9	2150.9	2493.4	2670.9	2853.5
15°	745.5	843.7	992.3	1139.6	1329.8	1474.6	1708.8	2045.1	2485.8	2730.1	2887.6
17.5°	552.8	619.6	753.0	918.0	1112.0	1316.0	1632.0	2033.8	2570.2	2861.1	3023.6
20°	423.1	445.8	530.2	677.5	887.8	1154.8	1507.4	2082.9	2819.5	3179.7	3344.7
22.5°	342.5	352.6	385.3	487.4	691.4	1013.7	1448.2	2116.9	3100.3	3561.3	3781.6
25°	298.5	295.9	317.3	361.4	540.3	881.5	1372.6	2245.3	3444.1	4009.6	4207.3
27.5°	272.0	272.0	282.1	313.5	448.3	795.8	1324.7	2337.2	3790.5	4403.7	4510.8
30°	258.2	260.7	289.6	299.7	372.7	693.9	1245.4	2430.4	4121.7	4655.6	4803.0
32.5°	239.3	229.2	222.9	248.1	313.5	601.9	1166.1	2469.4	4389.9	4964.1	5090.1
35°	183.8	178.8	186.4	205.3	269.5	523.9	1077.9	2513.6	4698.4	5321.8	5346.9
37.5°	166.3	165.0	170.0	186.4	226.6	455.8	1015.0	2502.2	4933.9	5617.7	5549.7
40°	153.7	153.7	157.4	171.2	202.8	408.0	949.5	2492.1	5161.8	5950.2	5751.2
42.5°	143.6	143.6	149.9	158.7	192.7	376.5	900.4	2478.3	5353.2	6154.2	5869.5
45°	129.7	133.5	143.6	152.4	195.2	355.2	863.9	2425.4	5418.7	6151.7	5812.9
47.5°	119.7	124.6	134.7	147.3	176.3	348.8	838.6	2378.8	5396.0	6000.5	5635.3
50°	108.3	114.6	128.4	149.9	149.9	336.2	812.2	2420.3	5379.7	5883.4	5465.3
52°	100.8	105.8	123.4	146.1	130.9	309.8	795.8	2501.0	5446.4	5868.2	5389.7
52.5°	99.5	103.3	119.7	143.6	124.6	304.8	784.6	2519.8	5467.8	5830.5	5441.4
55°	88.1	93.2	109.6	112.1	102.0	250.6	748.0	2562.7	5362.0	5756.2	5392.2
57.5°	83.1	85.6	97.0	91.9	88.1	188.9	643.5	2495.9	4762.7	5112.7	5017.0
60°	76.8	79.3	90.7	71.8	74.3	132.2	483.6	2167.3	3824.4	4260.2	4432.7
62.5°	74.3	73.0	85.6	57.9	63.0	95.7	341.3	1761.7	2946.7	3507.1	3805.6
65°	65.5	64.3	61.7	49.1	54.2	74.3	204.0	1149.7	2076.6	2653.4	2817.0
67.5°	50.4	52.9	45.3	39.0	45.3	57.9	113.4	515.0	1089.3	1591.8	1724.0
70°	35.2	37.8	36.5	34.0	40.3	47.9	65.5	176.3	450.9	836.2	921.8
72.5°	21.4	26.4	27.7	28.9	35.2	41.5	46.6	56.7	119.7	295.9	367.7
75°	12.6	17.7	21.4	25.1	28.9	35.2	39.0	40.3	41.5	55.4	89.4
77.5°	8.8	12.6	18.9	24.0	28.9	35.2	41.5	44.1	41.5	39.0	41.5
80°	7.6	12.6	17.7	22.7	30.2	36.5	41.5	41.5	40.3	35.2	37.8
82.5°	7.6	12.6	18.9	24.0	28.9	35.2	40.3	41.5	37.8	35.2	36.5
85°	8.8	13.9	20.2	25.1	31.5	28.9	26.4	21.4	20.2	16.4	17.7
87.5°	8.8	12.6	12.6	13.9	15.1	15.1	15.1	13.9	11.4	10.1	10.1
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: P651793

CATALOG NUMBER: GALN-SA3A-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8	3218.8
2.5°	3517.2	3617.9	3614.2	3616.6	3601.6	3499.6	3450.5	3325.8	3361.1	3345.9
5°	3652.0	3751.4	3837.1	3827.0	3711.2	3572.6	3367.4	3173.4	3120.5	3042.4
7.5°	3517.2	3756.5	3835.8	3824.4	3653.2	3475.6	3148.2	2954.3	2862.3	2810.7
10°	3303.1	3580.1	3678.4	3698.5	3582.7	3313.2	3012.2	2701.2	2652.1	2562.7
12.5°	3181.0	3382.4	3442.9	3497.0	3456.8	3255.3	2908.9	2610.5	2542.5	2483.3
15°	3081.5	3201.1	3226.3	3288.0	3311.9	3203.6	2963.1	2708.7	2541.2	2534.9
17.5°	3173.4	3124.3	3032.4	3051.2	3126.8	3204.9	3102.9	2902.6	2740.2	2720.0
20°	3325.8	3109.2	2901.4	2948.0	3010.9	3250.2	3314.5	3173.4	3080.2	3028.6
22.5°	3500.8	3135.7	2859.8	2882.5	3002.1	3352.2	3657.0	3578.9	3405.1	3330.8
25°	3824.4	3208.7	2892.6	2907.7	3071.4	3494.5	3966.7	4024.7	3921.4	3906.3
27.5°	4140.6	3397.6	2964.4	2930.4	3106.7	3633.0	4154.4	4465.5	4284.1	4248.8
30°	4301.7	3551.2	3071.4	3013.5	3252.7	3717.4	4267.7	4752.6	4593.9	4577.5
32.5°	4548.5	3691.0	3154.5	3080.2	3334.6	3821.9	4479.3	5066.1	4912.4	4830.6
35°	4651.8	3843.4	3337.1	3250.2	3568.8	3968.0	4587.6	5345.6	5297.8	5218.5
37.5°	4850.8	4007.0	3552.5	3547.4	3852.2	4158.2	4782.8	5725.9	5717.2	5580.0
40°	4867.1	4185.9	3892.5	4051.1	4290.4	4489.3	4954.1	5831.7	5975.3	5882.1
42.5°	4892.3	4499.4	4480.5	4611.5	4816.7	4773.9	4960.3	5857.0	6076.1	6020.6
45°	4903.7	4813.0	5078.7	5320.5	5406.1	5146.8	4901.2	5809.1	6129.0	5990.4
47.5°	4813.0	5082.5	5562.3	6029.5	6054.7	5375.9	4875.9	5760.0	6160.4	6068.5
50°	4825.6	5251.2	5980.4	6398.4	6306.5	5578.7	4836.9	5729.7	6144.1	6082.4
52°	4795.4	5255.0	6039.6	6390.9	6326.7	5466.6	4770.2	5613.9	6129.0	6173.0
52.5°	4829.4	5232.4	5977.8	6395.9	6312.8	5522.0	4761.4	5678.1	6137.8	6048.4
55°	4712.3	4962.8	5616.5	5794.0	5781.4	5011.9	4490.6	5465.3	5907.4	5908.6
57.5°	4258.9	4301.7	4405.0	4401.2	4343.3	3940.3	3840.8	5025.8	5266.3	5135.4
60°	3752.7	3149.5	2871.2	2757.8	2693.6	2628.1	3397.6	4597.7	4620.4	4564.9
62.5°	3242.6	2183.6	1813.4	1781.9	1797.0	2036.2	3284.2	4427.7	4291.6	4172.0
65°	2616.8	1591.8	1317.3	1275.6	1423.0	1681.2	2658.4	3395.0	3186.0	3086.6
67.5°	1643.4	1161.1	890.3	812.2	989.8	1157.3	1746.7	2133.2	1899.0	1761.7
70°	974.7	648.5	403.0	361.4	406.8	617.0	978.5	1064.1	880.3	809.7
72.5°	384.1	238.0	112.1	95.7	99.5	216.6	360.1	351.4	265.7	236.7
75°	103.3	71.8	39.0	31.5	26.4	40.3	57.9	37.8	13.9	17.7
77.5°	47.9	42.8	34.0	26.4	20.2	15.1	7.6	2.5	2.5	1.3
80°	41.5	36.5	31.5	26.4	20.2	12.6	6.3	1.3	1.3	1.3
82.5°	39.0	34.0	28.9	24.0	18.9	12.6	6.3	1.3	0.0	0.0
85°	16.4	21.4	24.0	22.7	20.2	12.6	6.3	1.3	0.0	0.0
87.5°	8.8	7.6	6.3	5.0	3.8	2.5	2.5	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

(END OF REPORT)