

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: P651795

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651795
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-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 8245.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

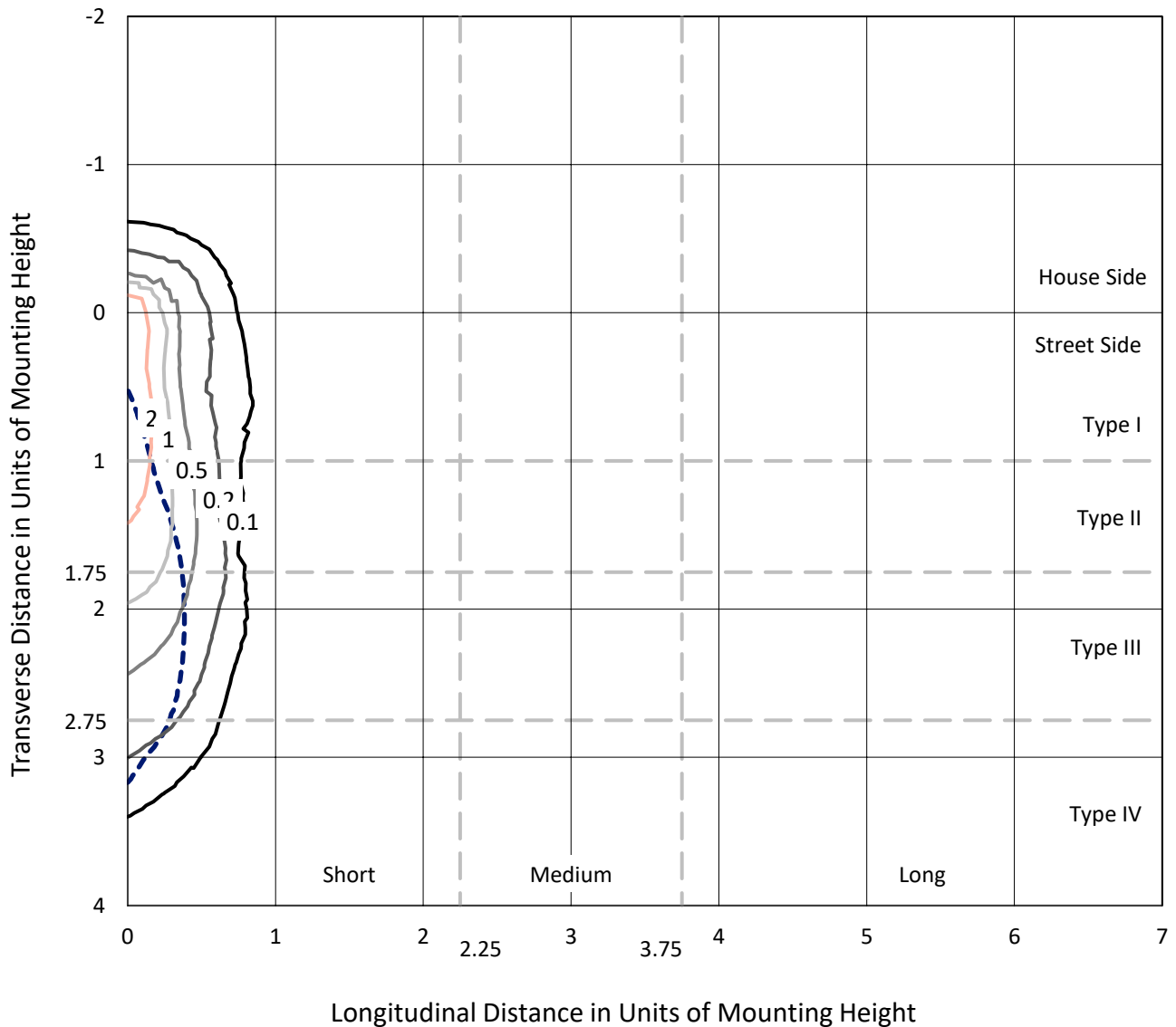
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651795
 CATALOG NUMBER: GALN-SA3A-840-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

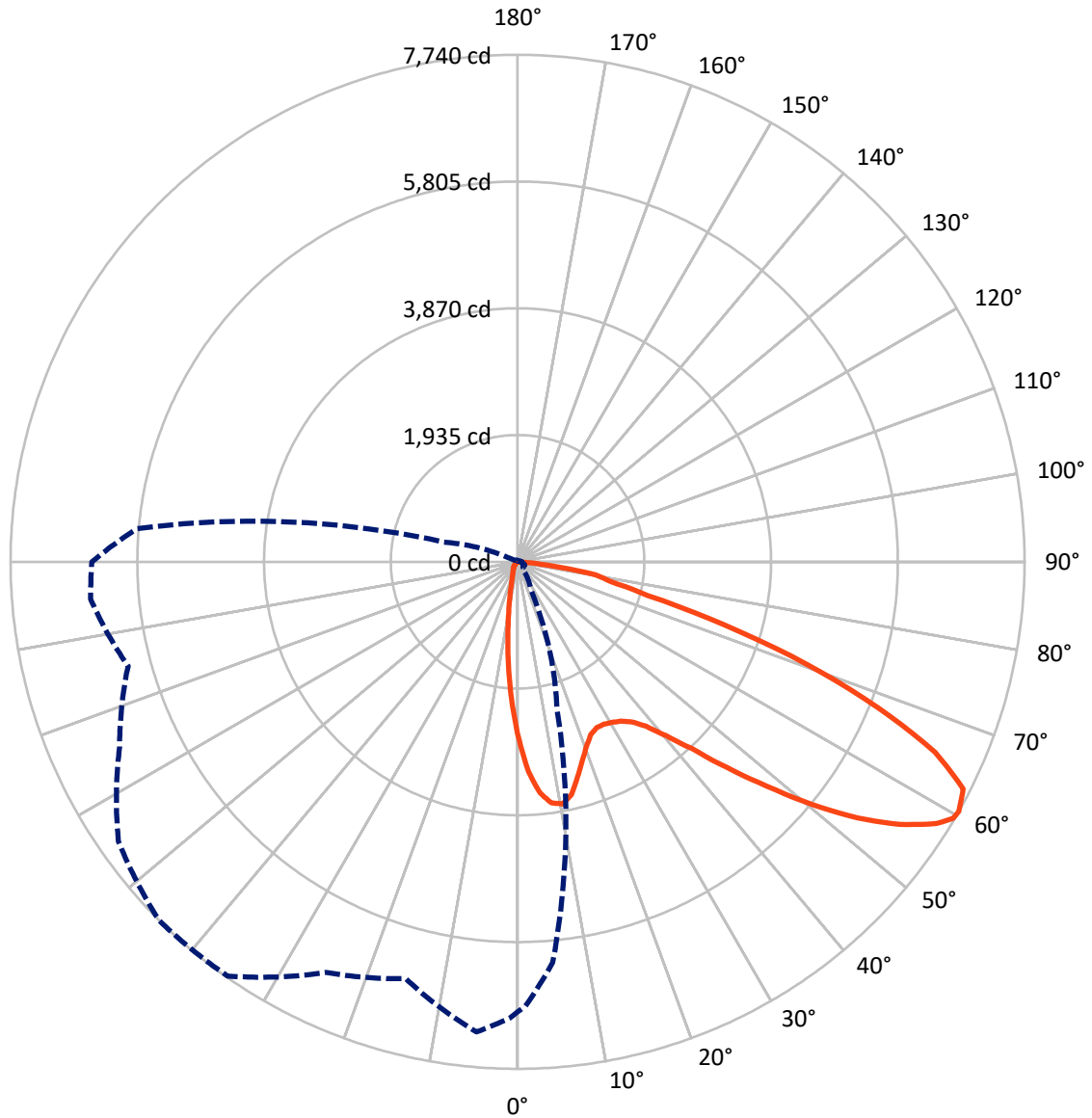
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P651795
CATALOG NUMBER: GALN-SA3A-840-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651795
 CATALOG NUMBER: GALN-SA3A-840-U-SLR-HSS

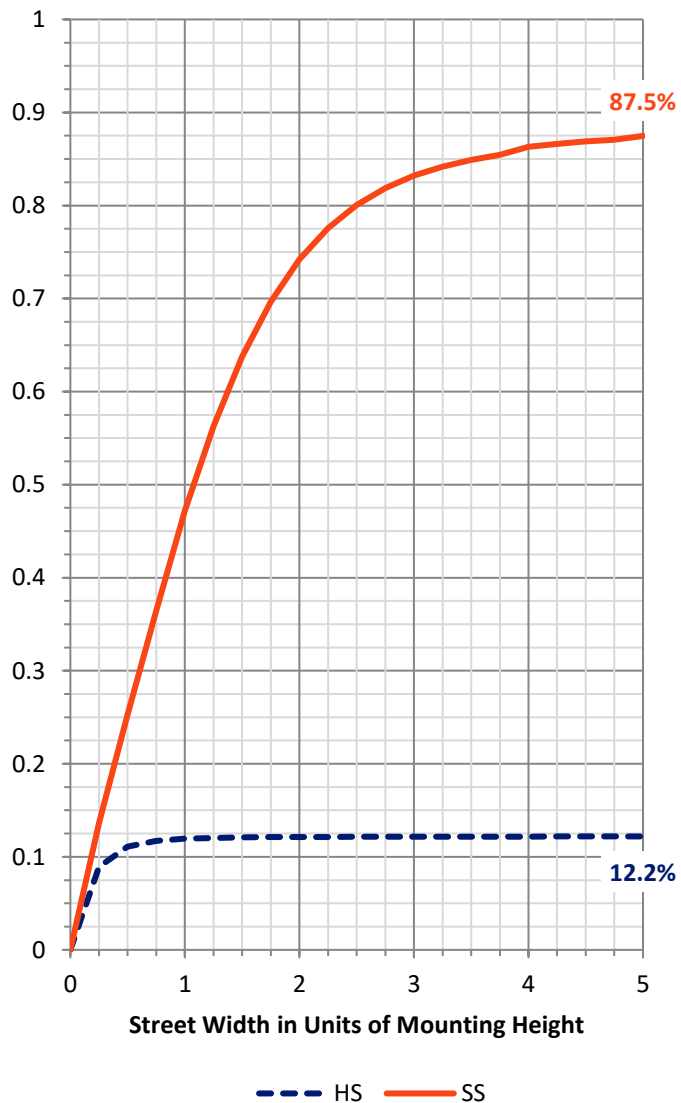
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1017.0	0.0	1017.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7228.2	0.0	7228.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	8245.2	0.0	8245.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	2.5
10°-20°	402.5	4.9
20°-30°	590.2	7.2
30°-40°	877.8	10.6
40°-50°	1277.4	15.5
50°-60°	1842.2	22.3
60°-70°	2026.2	24.6
70°-80°	907.6	11.0
80°-90°	118.6	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°	8245.2	100.0
0°-180°	8245.2	100.0

Coefficient of Utilization



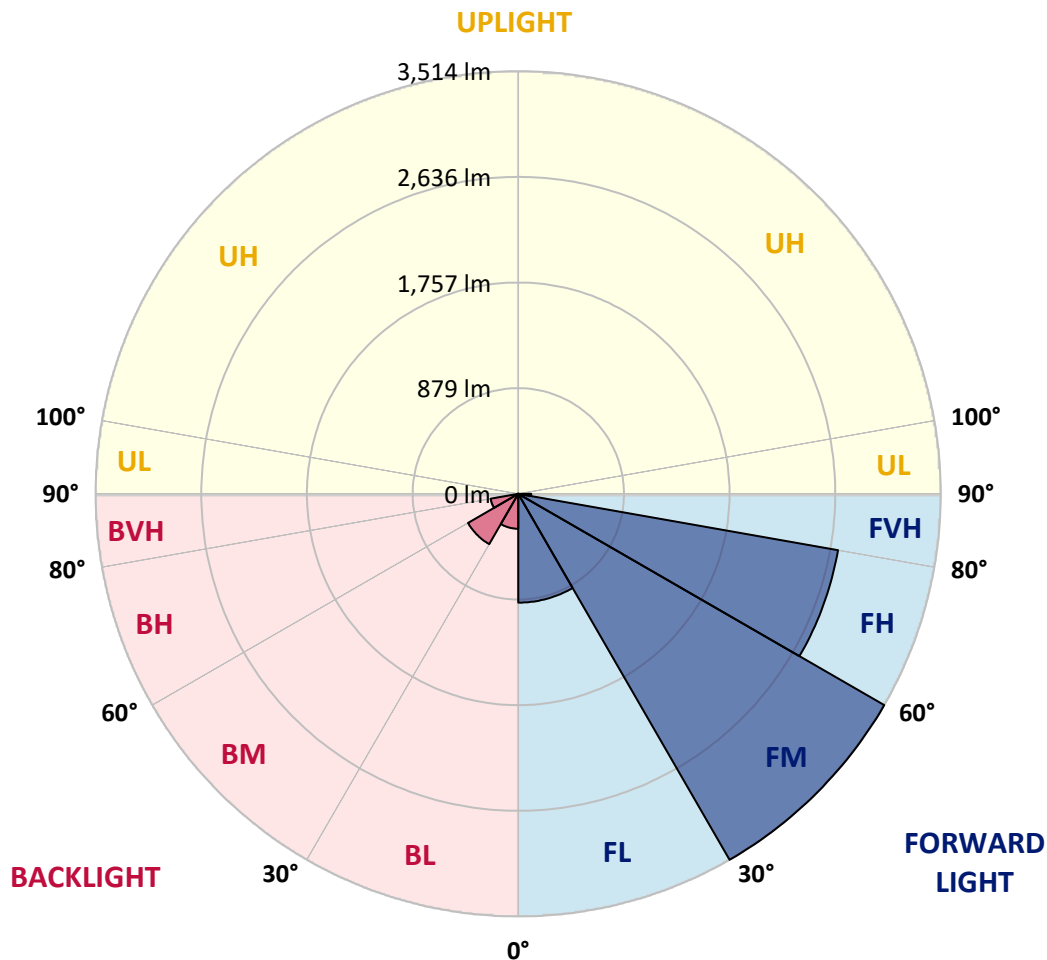
REPORT NUMBER: P651795
 CATALOG NUMBER: GALN-SA3A-840-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.9	11.0			
FM (30°-60°)	3514.3	42.6			
FH (60°-80°)	2700.5	32.8			G2/5000
FVH (80°-90°)	108.5	1.3			G2/225
BL (0°-30°)	290.6	3.5	B1/500		
BM (30°-60°)	483.0	5.9	B1/1000		
BH (60°-80°)	233.2	2.8	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
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: P651795

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	2995.9	2982.8	2952.7	2861.2	2781.5	2677.5	2572.2	2489.4	2438.7	2345.3	2302.7
5°	2902.5	2908.8	2821.6	2633.7	2424.3	2281.4	2125.4	2001.2	1864.6	1778.1	1687.2
7.5°	2658.7	2646.2	2551.5	2289.5	2035.1	1828.2	1630.8	1470.4	1369.5	1288.6	1221.0
10°	2450.0	2440.6	2319.6	1982.4	1709.2	1554.3	1420.9	1280.5	1172.0	1053.6	958.9
12.5°	2319.0	2297.7	2158.6	1806.3	1583.9	1439.6	1294.2	1148.2	998.4	878.7	764.0
15°	2275.2	2244.5	2089.6	1745.5	1503.6	1320.5	1138.2	970.3	797.9	665.7	579.1
17.5°	2354.7	2304.0	2139.2	1734.9	1407.7	1165.1	940.7	722.0	542.8	441.9	388.6
20°	2537.1	2478.8	2264.5	1724.2	1301.1	990.9	715.1	510.2	375.4	320.3	290.8
22.5°	2807.8	2727.6	2450.0	1741.1	1202.7	821.1	516.5	360.4	298.3	263.9	243.2
25°	3133.1	3066.1	2685.1	1801.3	1125.0	687.5	399.2	294.6	251.3	230.0	214.4
27.5°	3489.8	3382.6	2989.0	1873.4	1054.2	584.2	350.4	263.2	223.8	204.4	196.2
30°	3743.6	3660.3	3243.5	1923.5	965.8	506.5	320.3	259.4	224.4	201.2	186.1
32.5°	3994.3	3887.8	3456.6	1946.7	901.3	452.5	277.0	226.2	196.8	184.9	169.9
35°	4262.6	4151.0	3669.0	1934.2	853.0	416.8	251.3	201.8	168.6	148.5	133.5
37.5°	4534.0	4416.2	3880.3	1889.1	822.9	402.4	231.3	191.7	159.2	138.5	122.2
40°	4856.1	4698.8	4078.3	1852.1	791.6	394.8	218.1	185.5	152.3	130.4	114.0
42.5°	5119.3	4969.6	4265.7	1832.6	770.3	377.3	218.1	180.5	147.9	123.5	106.6
45°	5368.8	5213.4	4468.1	1848.3	761.5	355.4	220.6	179.9	144.8	118.5	101.5
47.5°	5577.5	5442.8	4676.2	1907.2	750.3	331.5	207.5	188.6	142.9	114.0	96.5
50°	5823.8	5693.5	4951.4	2026.3	730.2	307.7	191.2	203.1	142.3	110.3	92.2
52.5°	6171.1	6030.1	5331.2	2161.7	698.2	271.4	176.1	201.2	139.8	104.0	87.7
55°	6595.4	6481.3	5771.2	2324.0	654.3	230.7	152.3	178.6	132.2	93.4	80.2
57.5°	6867.4	6770.2	6100.9	2394.2	587.3	188.6	134.1	149.8	120.9	83.3	71.5
59°	6899.4	6811.6	6169.8	2371.0	543.4	172.3	125.4	128.5	117.8	77.7	66.4
60°	6872.4	6781.5	6142.2	2325.9	502.7	161.1	117.8	114.0	118.5	74.6	62.7
62.5°	6699.4	6544.0	5874.6	2097.1	439.3	147.9	104.7	93.4	104.7	67.0	55.8
65°	6365.4	6132.2	5345.0	1775.0	414.3	140.4	89.0	78.4	79.6	59.0	48.3
67.5°	5781.9	5487.9	4639.9	1442.1	403.6	141.0	75.2	70.2	61.4	50.1	42.6
70°	4859.3	4566.0	3722.9	1186.5	398.6	141.0	63.9	60.1	51.4	42.0	37.0
72.5°	3443.4	3127.5	2511.4	932.0	359.1	140.4	54.5	54.5	42.0	35.1	30.1
75°	1945.5	1947.9	1578.8	659.3	298.3	116.0	43.9	43.2	30.7	26.9	22.5
77.5°	1133.8	1113.7	1064.2	283.3	138.5	52.6	30.7	26.3	21.3	19.4	16.3
80°	582.9	479.5	466.9	102.8	49.5	33.2	21.3	15.1	13.8	12.5	11.3
82.5°	172.3	173.0	154.2	41.4	27.6	22.0	10.7	8.2	7.5	6.9	6.9
85°	11.9	7.5	8.7	12.5	16.9	8.7	0.6	1.9	1.9	2.5	3.1
87.5°	1.3	0.6	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: P651795
 CATALOG NUMBER: GALN-SA3A-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	2255.7	2283.3	2231.8	2233.1	2190.6	2204.3	2154.1	2170.5	2141.0	2163.6	2230.0
5°	1697.2	1703.5	1662.2	1649.0	1655.3	1681.0	1691.0	1645.2	1664.7	1626.4	1624.0
7.5°	1195.8	1203.4	1179.6	1176.4	1221.6	1210.9	1230.3	1183.3	1138.8	1158.2	1122.5
10°	928.9	897.5	848.7	834.9	826.0	831.7	831.7	789.1	782.8	765.9	791.6
12.5°	733.3	695.1	648.7	586.0	570.4	569.1	545.9	508.3	496.4	482.0	503.3
15°	532.8	517.0	478.2	443.1	407.4	400.5	362.9	332.2	291.4	285.8	283.9
17.5°	374.8	351.6	350.9	330.9	310.2	296.5	261.4	226.2	210.6	208.7	208.7
20°	280.8	272.7	259.4	257.0	250.7	235.1	203.7	184.9	177.4	178.0	180.5
22.5°	236.3	230.7	218.7	213.1	210.6	196.8	173.6	161.1	157.4	157.4	157.9
25°	211.3	206.2	193.0	184.3	181.2	171.1	152.9	143.6	140.4	140.4	140.4
27.5°	192.4	186.1	172.3	164.8	159.2	147.9	136.7	127.2	124.1	124.1	124.7
30°	179.2	172.3	159.8	149.8	141.0	131.0	121.6	113.5	109.7	109.1	109.7
32.5°	161.7	155.4	142.9	136.7	126.6	114.7	107.1	99.7	95.9	96.5	95.9
35°	126.0	124.1	115.3	117.2	111.6	101.5	94.6	86.5	82.1	81.5	82.8
37.5°	114.7	107.1	97.1	97.8	95.9	92.2	80.8	72.1	69.0	69.0	69.6
40°	105.9	98.4	87.1	81.5	82.1	82.1	70.2	60.8	57.7	57.0	58.3
42.5°	98.4	90.9	78.4	69.0	66.4	69.6	59.5	50.1	47.0	45.8	47.0
45°	93.4	85.3	70.8	60.1	52.6	56.4	48.9	41.4	37.6	37.6	37.0
47.5°	88.4	80.8	65.2	52.1	43.9	42.0	40.1	33.2	29.4	28.8	29.4
50°	84.0	76.4	59.0	45.2	37.0	32.6	32.6	26.3	23.8	22.5	23.2
52.5°	79.6	71.5	53.2	40.1	32.0	26.3	23.2	21.3	19.4	18.8	19.4
55°	73.3	65.2	47.6	34.5	27.6	22.0	18.2	17.6	16.3	15.1	16.3
57.5°	65.9	58.3	42.0	29.4	22.0	16.9	15.1	14.4	13.2	12.5	12.5
59°	61.4	54.5	38.9	25.7	19.4	15.1	13.8	13.2	11.9	10.7	11.3
60°	59.0	53.2	37.0	23.8	17.6	13.8	12.5	11.9	10.7	10.0	10.7
62.5°	52.1	47.6	32.6	19.4	13.8	10.0	8.7	9.4	8.7	8.2	8.7
65°	45.8	42.0	27.6	15.1	10.7	6.9	6.3	8.2	7.5	6.9	7.5
67.5°	40.7	36.3	23.2	11.3	7.5	3.8	4.4	6.9	6.9	6.3	6.9
70°	35.1	31.4	18.8	8.2	3.8	1.9	3.1	5.0	6.3	5.6	6.3
72.5°	28.8	24.5	14.4	5.6	1.9	0.0	1.9	4.4	6.3	5.6	6.3
75°	22.5	18.2	10.7	3.1	0.0	0.0	0.6	3.8	6.3	5.6	6.3
77.5°	16.3	13.2	6.3	0.6	0.0	0.0	0.6	3.8	6.3	5.6	6.3
80°	10.7	9.4	2.5	0.0	0.0	0.0	0.6	3.8	6.3	6.3	6.9
82.5°	6.9	5.0	0.0	0.0	0.0	0.0	1.3	5.0	6.9	7.5	7.5
85°	3.1	0.0	0.0	0.0	0.0	0.0	2.5	6.3	8.2	8.2	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	4.4	7.5	9.4	9.4	9.4
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: P651795

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

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	2241.3	2280.8	2336.6	2422.4	2492.0	2601.6	2685.6	2800.4	2916.3	2951.4	3005.9
5°	1649.6	1700.4	1827.0	1942.3	2015.0	2246.9	2393.6	2624.8	2832.3	2932.0	3040.4
7.5°	1145.7	1205.9	1302.4	1463.5	1616.4	1805.0	2041.9	2306.4	2610.5	2752.8	2905.7
10°	804.2	879.3	1015.3	1147.6	1340.0	1519.3	1753.1	2045.1	2380.5	2548.4	2740.1
12.5°	507.7	574.7	754.6	903.1	1143.2	1351.3	1566.9	1831.4	2220.0	2392.3	2593.6
15°	290.2	346.6	430.6	621.1	887.5	1162.6	1431.6	1738.6	2137.9	2350.3	2567.8
17.5°	216.2	231.3	268.9	376.7	619.2	940.7	1306.8	1710.4	2193.7	2443.1	2691.3
20°	181.7	191.7	209.3	252.0	394.8	724.5	1185.2	1715.5	2374.1	2687.5	2923.2
22.5°	163.0	169.2	183.7	211.3	269.5	527.7	1042.9	1744.9	2592.9	2987.7	3259.8
25°	142.9	151.0	163.6	187.4	224.4	366.0	902.6	1810.7	2899.3	3368.8	3624.5
27.5°	127.2	134.7	147.3	169.2	196.8	279.5	739.0	1867.1	3222.8	3752.4	3961.7
30°	111.6	119.1	131.6	149.2	174.3	226.2	562.8	1900.3	3536.8	4040.1	4201.1
32.5°	98.4	104.7	116.6	132.2	152.9	191.7	443.7	1865.8	3776.8	4301.5	4409.3
35°	85.3	92.8	102.8	117.2	135.4	163.6	369.2	1746.8	3983.1	4570.3	4609.2
37.5°	71.5	80.2	90.9	104.0	118.5	150.5	296.5	1615.1	4203.7	4905.6	4841.7
40°	60.1	68.3	78.4	92.8	105.9	137.9	228.2	1474.8	4441.8	5220.3	5095.5
42.5°	48.9	57.7	69.6	82.8	104.7	120.3	176.8	1329.4	4655.5	5494.2	5325.0
45°	38.9	46.3	59.0	75.9	104.0	103.4	136.7	1185.8	4816.7	5689.7	5496.0
47.5°	30.7	37.0	49.5	73.9	95.9	87.7	109.7	1096.8	4985.9	5865.8	5627.0
50°	24.5	30.7	42.6	77.1	84.0	75.2	92.2	1111.2	5149.4	5955.5	5681.0
52.5°	20.7	26.9	37.0	60.8	64.6	65.9	80.8	1177.7	5360.7	6051.3	5788.1
55°	18.2	23.8	31.4	42.6	50.1	59.0	73.9	1225.9	5643.4	6257.0	6024.4
57.5°	14.4	20.7	28.2	36.3	41.4	51.4	68.3	1229.7	5899.0	6520.8	6338.4
59°	13.2	18.8	26.3	34.5	37.0	46.3	64.6	1197.8	5908.4	6560.3	6482.6
60°	11.9	18.2	25.1	32.0	35.1	43.9	61.4	1160.7	5823.3	6497.6	6542.1
62.5°	10.0	15.6	22.0	25.7	30.1	36.3	53.2	1026.6	5410.2	6213.6	6431.8
65°	8.7	13.8	18.8	21.3	25.1	31.4	47.0	821.7	4953.9	5828.9	6115.9
67.5°	8.2	12.5	16.3	18.2	22.0	28.8	42.0	580.4	4362.9	5340.6	5641.4
70°	7.5	11.9	14.4	16.9	19.4	24.5	35.7	338.4	3360.6	4484.5	4802.2
72.5°	7.5	11.3	12.5	14.4	16.9	22.0	33.2	183.0	2297.7	3420.9	3831.3
75°	7.5	10.7	11.3	12.5	15.1	20.0	29.4	95.9	1485.5	2376.7	2933.2
77.5°	7.5	10.0	11.3	11.9	14.4	17.6	25.7	60.1	989.7	1664.7	1982.4
80°	8.2	10.0	10.7	11.9	13.8	16.3	21.3	40.1	581.6	1001.5	1206.5
82.5°	8.7	10.0	11.3	12.5	14.4	15.6	18.8	25.1	268.3	662.5	749.6
85°	9.4	10.7	11.9	13.2	15.1	15.6	17.6	18.2	43.9	299.0	404.3
87.5°	10.0	11.3	12.5	13.8	16.3	16.3	16.3	16.3	15.1	32.0	81.5
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: P651795

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2	2725.2
2.5°	3074.9	3145.7	3195.2	3207.7	3172.0	3155.8	3110.6	3040.4	2997.7	2995.9
5°	3240.4	3406.5	3521.8	3541.2	3472.2	3355.7	3217.2	3038.5	2933.8	2902.5
7.5°	3212.1	3502.9	3688.5	3715.5	3599.5	3377.0	3108.8	2821.1	2706.9	2658.7
10°	3096.2	3451.0	3716.0	3758.7	3603.9	3290.5	2949.6	2628.6	2487.0	2450.0
12.5°	2997.2	3355.7	3591.3	3650.3	3533.0	3220.3	2854.3	2505.2	2353.5	2319.0
15°	2953.9	3242.8	3387.0	3417.1	3397.6	3176.4	2844.3	2486.3	2312.8	2275.2
17.5°	2997.2	3146.9	3165.1	3195.8	3239.1	3172.0	2940.7	2588.5	2401.1	2354.7
20°	3110.6	3063.6	2988.4	3001.5	3100.6	3190.2	3112.5	2814.7	2586.7	2537.1
22.5°	3303.6	3042.9	2872.4	2861.2	2986.5	3251.0	3364.4	3121.3	2856.8	2807.8
25°	3540.5	3095.0	2829.8	2805.4	2942.0	3340.0	3638.3	3496.7	3207.7	3133.1
27.5°	3798.8	3202.7	2829.8	2806.0	2938.2	3419.0	3872.7	3828.9	3571.3	3489.8
30°	3940.4	3291.8	2870.6	2843.6	2984.6	3464.8	3998.1	4124.1	3844.5	3743.6
32.5°	4067.0	3415.2	2950.1	2899.3	3081.8	3532.4	4110.3	4374.8	4062.0	3994.3
35°	4183.6	3547.4	3059.8	3000.9	3209.6	3625.1	4234.4	4638.0	4364.7	4262.6
37.5°	4312.1	3701.0	3231.0	3180.8	3423.4	3805.7	4381.7	4984.0	4662.4	4534.0
40°	4451.8	3879.0	3512.4	3491.1	3763.1	4010.0	4567.8	5353.1	5002.2	4856.1
42.5°	4594.1	4084.0	3857.1	3892.1	4147.9	4296.4	4759.0	5637.1	5280.5	5119.3
45°	4723.2	4346.0	4305.2	4478.8	4596.7	4576.0	4900.6	5837.0	5523.0	5368.8
47.5°	4886.2	4727.6	4847.4	5115.0	5118.1	4879.9	5007.8	6000.6	5731.7	5577.5
50°	5068.6	5178.3	5547.4	5820.1	5746.7	5178.9	5133.1	6194.2	5947.3	5823.8
52.5°	5279.8	5682.8	6194.2	6497.0	6325.8	5504.8	5341.9	6403.6	6289.5	6171.1
55°	5525.5	6026.9	6839.2	7080.5	6908.1	5909.7	5659.0	6687.5	6676.2	6595.4
57.5°	5803.2	6390.4	7212.8	7539.3	7385.7	6384.8	6102.1	6955.2	6912.5	6867.4
59°	6022.5	6577.2	7377.6	7716.0	7623.2	6717.6	6399.8	7121.8	6967.0	6899.4
60°	6155.4	6703.8	7438.4	7739.8	7718.5	6915.6	6588.5	7203.3	6966.4	6872.4
62.5°	6549.6	6925.0	7415.2	7633.9	7717.3	7295.5	7141.9	7293.0	6837.3	6699.4
65°	6690.0	6851.7	7031.0	7004.0	7075.5	7276.0	7495.4	7194.6	6561.6	6365.4
67.5°	6416.7	6047.6	6110.9	5931.0	5895.9	6468.8	7351.9	6713.2	6021.9	5781.9
70°	5408.9	4633.0	4601.0	4683.8	4456.9	5237.2	6601.7	5786.2	5131.3	4859.3
72.5°	4257.6	3274.2	3004.6	3309.3	3302.4	3995.6	5484.2	4105.9	3466.6	3443.4
75°	3348.1	2279.5	2000.6	2050.1	2145.4	2892.5	4367.9	2607.4	2134.7	1945.5
77.5°	2247.6	1615.1	1506.7	1445.9	1548.7	1857.1	2763.4	1414.0	1197.1	1133.8
80°	1295.5	1173.3	1332.5	1209.6	1264.8	1170.2	1374.4	648.7	538.4	582.9
82.5°	843.0	668.1	712.0	529.0	723.3	729.6	441.3	191.7	162.3	172.3
85°	527.1	313.4	176.1	125.4	249.4	458.8	137.9	11.9	13.8	11.9
87.5°	136.7	52.1	22.0	32.6	40.1	35.7	32.0	1.9	0.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)