

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: P647285

Luminaire Tested: **GALN-SA2D-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647285
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-SA2D-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 8747.7 lumens
Efficiency: N/A
Efficacy: 70.0 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): 125
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

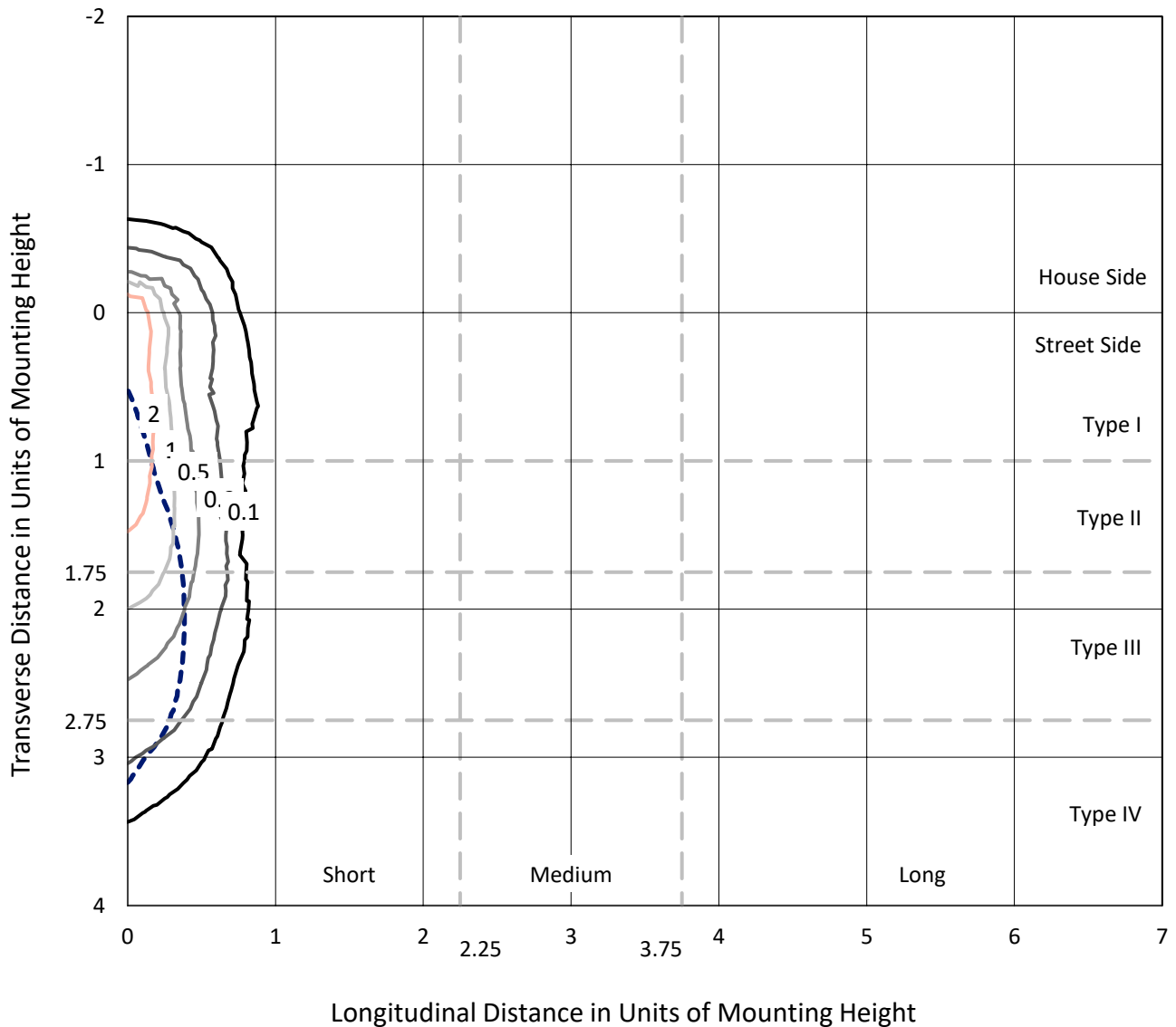




REPORT NUMBER: P647285
 CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

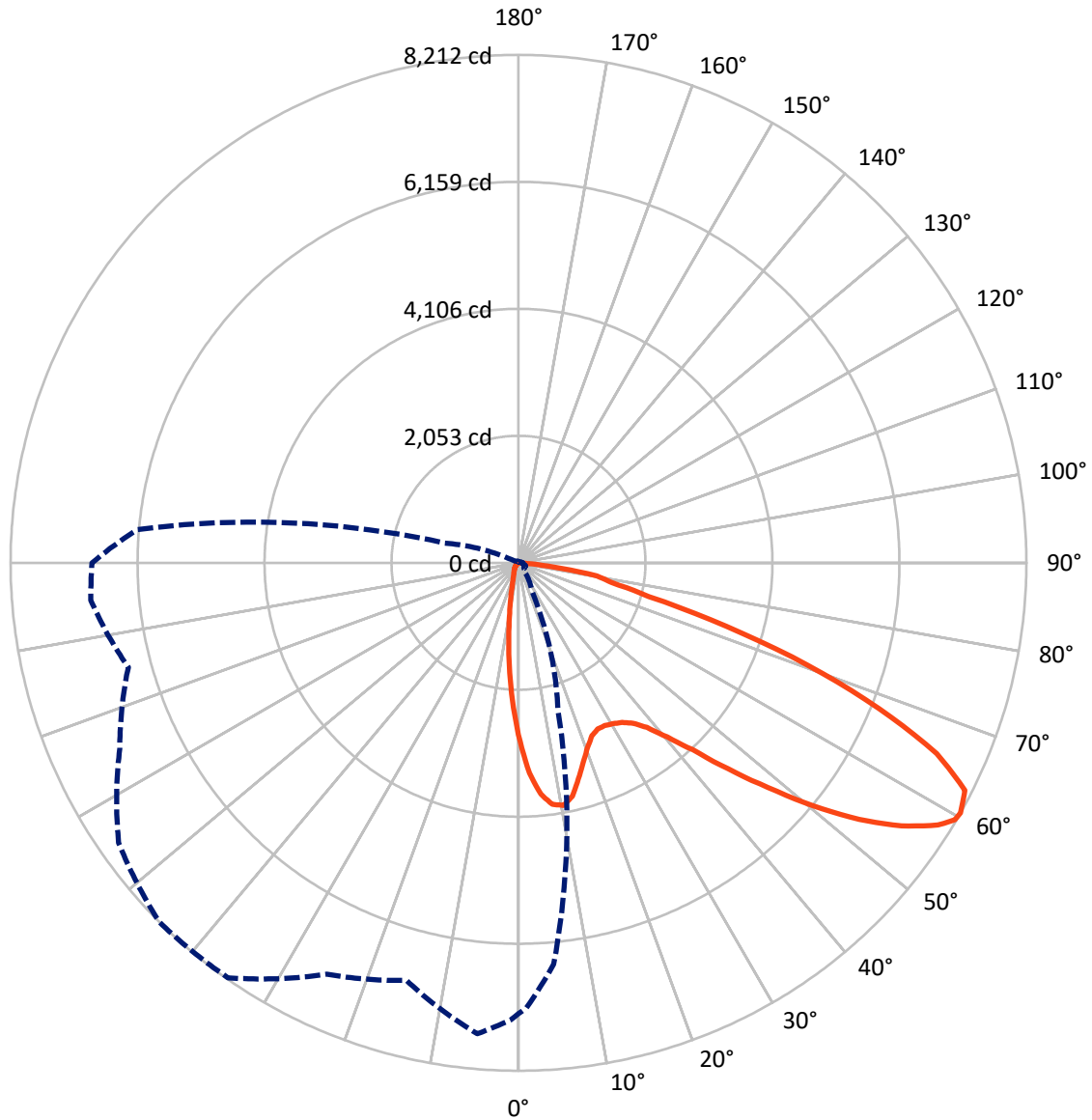
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P647285
CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647285
 CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

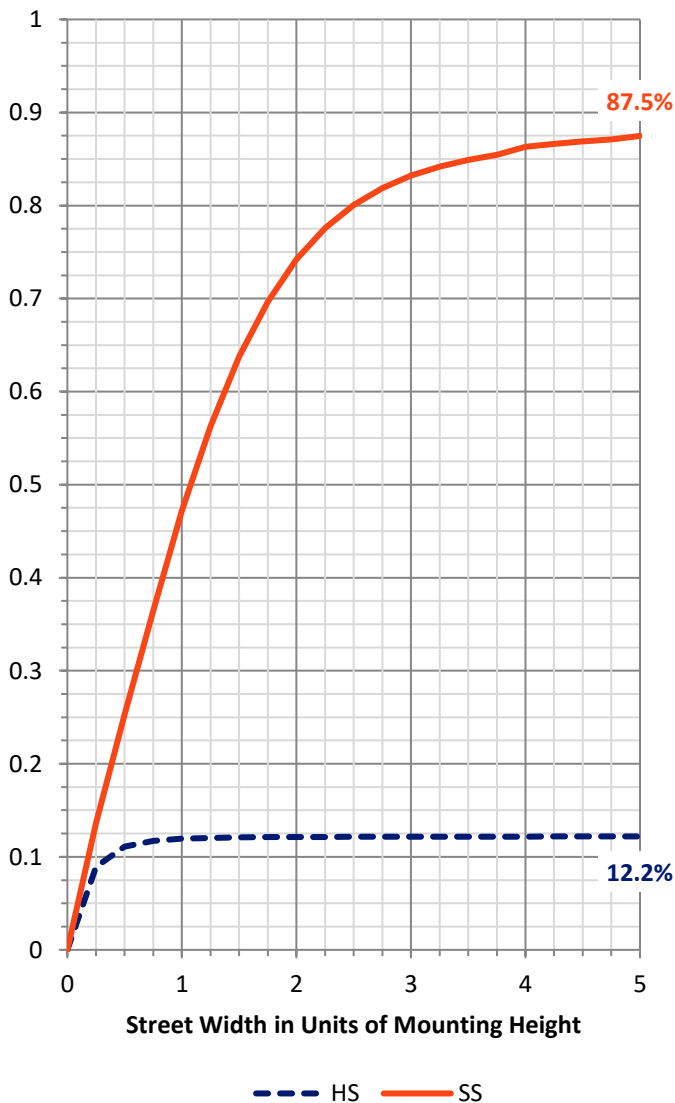
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1078.9	0.0	1078.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	7668.7	0.0	7668.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	8747.7	0.0	8747.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	2.5
10°-20°	427.1	4.9
20°-30°	626.2	7.2
30°-40°	931.3	10.6
40°-50°	1355.3	15.5
50°-60°	1954.4	22.3
60°-70°	2149.7	24.6
70°-80°	962.9	11.0
80°-90°	125.8	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°	8747.7	100.0
0°-180°	8747.7	100.0

Coefficient of Utilization



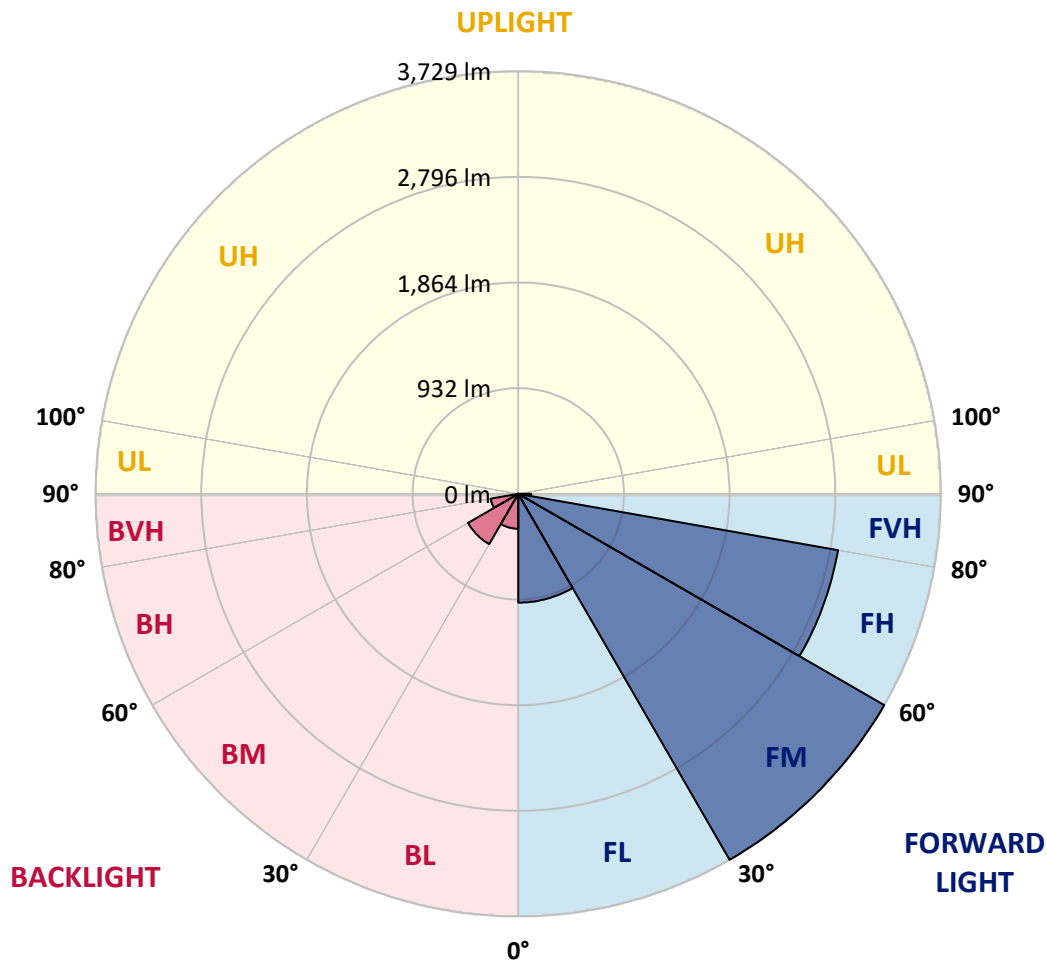
REPORT NUMBER: P647285
 CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.0	11.0			
FM (30°-60°)	3728.5	42.6			
FH (60°-80°)	2865.1	32.8			G2/5000
FVH (80°-90°)	115.1	1.3			G2/225
BL (0°-30°)	308.3	3.5	B1/500		
BM (30°-60°)	512.5	5.9	B1/1000		
BH (60°-80°)	247.4	2.8	B1/500		G1/500
BVH (80°-90°)	10.8	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: P647285

CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	3178.5	3164.5	3132.6	3035.5	2951.0	2840.7	2729.0	2641.2	2587.3	2488.3	2443.0
5°	3079.4	3086.0	2993.6	2794.1	2572.1	2420.4	2254.9	2123.2	1978.2	1886.5	1790.1
7.5°	2820.8	2807.4	2707.1	2429.1	2159.1	1939.6	1730.2	1560.0	1452.9	1367.1	1295.3
10°	2599.3	2589.3	2461.0	2103.3	1813.3	1649.1	1507.4	1358.5	1243.5	1117.8	1017.4
12.5°	2460.3	2437.7	2290.1	1916.4	1680.3	1527.4	1373.1	1218.2	1059.2	932.2	810.6
15°	2413.8	2381.2	2217.0	1851.9	1595.2	1401.1	1207.5	1029.3	846.5	706.2	614.4
17.5°	2498.2	2444.4	2269.5	1840.6	1493.5	1236.1	998.1	766.0	575.8	468.8	412.2
20°	2691.7	2629.9	2402.5	1829.3	1380.4	1051.3	758.7	541.3	398.3	339.8	308.5
22.5°	2979.0	2893.9	2599.3	1847.3	1276.1	871.1	547.9	382.3	316.5	279.9	258.0
25°	3324.1	3253.0	2848.7	1911.1	1193.6	729.4	423.6	312.5	266.6	244.1	227.4
27.5°	3702.5	3588.8	3171.2	1987.6	1118.4	619.7	371.7	279.3	237.4	216.8	208.1
30°	3971.8	3883.4	3441.1	2040.7	1024.7	537.3	339.8	275.3	238.0	213.4	197.5
32.5°	4237.8	4124.8	3667.3	2065.3	956.2	480.1	293.9	240.1	208.8	196.1	180.2
35°	4522.4	4404.0	3892.7	2052.1	905.0	442.2	266.6	214.2	178.8	157.6	141.6
37.5°	4810.3	4685.3	4116.8	2004.2	873.1	426.9	245.4	203.5	168.9	147.0	129.7
40°	5152.1	4985.2	4326.9	1964.9	839.8	418.9	231.4	196.8	161.6	138.3	121.1
42.5°	5431.4	5272.4	4525.7	1944.3	817.2	400.3	231.4	191.5	156.9	131.0	113.1
45°	5696.0	5531.1	4740.4	1960.9	807.9	377.0	234.0	190.8	153.6	125.7	107.7
47.5°	5917.4	5774.5	4961.2	2023.4	795.9	351.7	220.1	200.1	151.6	121.1	102.4
50°	6178.8	6040.5	5253.1	2149.8	774.7	326.5	202.8	215.5	151.0	117.1	97.7
52.5°	6547.1	6397.6	5656.2	2293.4	740.8	287.9	186.8	213.4	148.3	110.4	93.1
55°	6997.4	6876.3	6122.9	2465.7	694.2	244.7	161.6	189.5	140.3	99.0	85.1
57.5°	7285.9	7182.9	6472.7	2540.1	623.0	200.1	142.3	158.9	128.3	88.4	75.8
59°	7319.9	7226.8	6545.8	2515.5	576.5	182.8	133.0	136.3	125.0	82.4	70.5
60°	7291.2	7194.8	6516.6	2467.6	533.3	170.9	125.0	121.1	125.7	79.2	66.5
62.5°	7107.8	6942.8	6232.6	2225.0	466.1	156.9	111.0	99.0	111.0	71.2	59.2
65°	6753.3	6505.9	5670.7	1883.2	439.5	148.9	94.4	83.2	84.5	62.5	51.2
67.5°	6134.3	5822.4	4922.6	1530.1	428.2	149.6	79.8	74.5	65.1	53.2	45.2
70°	5155.4	4844.2	3949.8	1258.8	422.9	149.6	67.8	63.8	54.5	44.6	39.2
72.5°	3653.2	3318.1	2664.5	988.8	381.0	148.9	57.9	57.9	44.6	37.3	31.9
75°	2064.0	2066.7	1675.0	699.5	316.5	123.0	46.5	45.9	32.6	28.6	24.0
77.5°	1202.9	1181.6	1129.1	300.6	147.0	55.8	32.6	28.0	22.6	20.6	17.3
80°	618.4	508.7	495.4	109.1	52.5	35.2	22.6	16.0	14.6	13.3	12.0
82.5°	182.8	183.5	163.6	43.8	29.3	23.3	11.3	8.6	8.0	7.3	7.3
85°	12.6	8.0	9.3	13.3	17.9	9.3	0.6	2.0	2.0	2.7	3.3
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: P647285

CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	2393.2	2422.4	2367.9	2369.3	2324.0	2338.7	2285.4	2302.7	2271.5	2295.4	2365.9
5°	1800.7	1807.3	1763.5	1749.5	1756.1	1783.4	1794.1	1745.5	1766.1	1725.6	1722.9
7.5°	1268.8	1276.7	1251.5	1248.1	1296.0	1284.7	1305.3	1255.5	1208.2	1228.8	1190.9
10°	985.5	952.2	900.4	885.7	876.4	882.4	882.4	837.2	830.5	812.6	839.8
12.5°	778.0	737.4	688.3	621.7	605.1	603.8	579.2	539.3	526.6	511.4	533.9
15°	565.2	548.6	507.4	470.1	432.2	424.9	385.0	352.4	309.2	303.3	301.2
17.5°	397.6	373.0	372.4	351.1	329.2	314.5	277.3	240.1	223.4	221.4	221.4
20°	297.9	289.2	275.3	272.6	266.0	249.4	216.1	196.1	188.2	188.9	191.5
22.5°	250.7	244.7	232.1	226.1	223.4	208.8	184.2	170.9	166.9	166.9	167.6
25°	224.1	218.8	204.8	195.5	192.1	181.5	162.2	152.3	148.9	148.9	148.9
27.5°	204.1	197.5	182.8	174.9	168.9	156.9	144.9	135.0	131.6	131.6	132.3
30°	190.2	182.8	169.6	158.9	149.6	139.0	129.0	120.3	116.4	115.7	116.4
32.5°	171.6	164.9	151.6	144.9	134.3	121.7	113.7	105.7	101.7	102.4	101.7
35°	133.7	131.6	122.4	124.3	118.4	107.7	100.4	91.8	87.1	86.4	87.8
37.5°	121.7	113.7	103.0	103.7	101.7	97.7	85.8	76.5	73.1	73.1	73.8
40°	112.4	104.4	92.4	86.4	87.1	87.1	74.5	64.5	61.2	60.5	61.9
42.5°	104.4	96.4	83.2	73.1	70.5	73.8	63.2	53.2	49.9	48.5	49.9
45°	99.0	90.4	75.2	63.8	55.8	59.8	51.8	43.8	39.9	39.9	39.2
47.5°	93.7	85.8	69.1	55.2	46.5	44.6	42.6	35.2	31.2	30.6	31.2
50°	89.1	81.1	62.5	47.8	39.2	34.6	34.6	28.0	25.3	24.0	24.6
52.5°	84.5	75.8	56.5	42.6	33.9	28.0	24.6	22.6	20.6	20.0	20.6
55°	77.8	69.1	50.5	36.6	29.3	23.3	19.3	18.6	17.3	16.0	17.3
57.5°	69.8	61.9	44.6	31.2	23.3	17.9	16.0	15.3	13.9	13.3	13.3
59°	65.1	57.9	41.3	27.2	20.6	16.0	14.6	13.9	12.6	11.3	12.0
60°	62.5	56.5	39.2	25.3	18.6	14.6	13.3	12.6	11.3	10.6	11.3
62.5°	55.2	50.5	34.6	20.6	14.6	10.6	9.3	9.9	9.3	8.6	9.3
65°	48.5	44.6	29.3	16.0	11.3	7.3	6.7	8.6	8.0	7.3	8.0
67.5°	43.2	38.6	24.6	12.0	8.0	4.0	4.6	7.3	7.3	6.7	7.3
70°	37.3	33.3	20.0	8.6	4.0	2.0	3.3	5.3	6.7	6.0	6.7
72.5°	30.6	25.9	15.3	6.0	2.0	0.0	2.0	4.6	6.7	6.0	6.7
75°	24.0	19.3	11.3	3.3	0.0	0.0	0.6	4.0	6.7	6.0	6.7
77.5°	17.3	13.9	6.7	0.6	0.0	0.0	0.6	4.0	6.7	6.0	6.7
80°	11.3	9.9	2.7	0.0	0.0	0.0	0.6	4.0	6.7	6.7	7.3
82.5°	7.3	5.3	0.0	0.0	0.0	0.0	1.3	5.3	7.3	8.0	8.0
85°	3.3	0.0	0.0	0.0	0.0	0.0	2.7	6.7	8.6	8.6	8.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	4.6	8.0	9.9	9.9	9.9
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: P647285

CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	2377.9	2419.8	2479.0	2570.0	2643.9	2760.2	2849.3	2971.0	3094.0	3131.3	3189.2
5°	1750.2	1804.0	1938.3	2060.7	2137.8	2383.8	2539.5	2784.8	3004.9	3110.7	3225.7
7.5°	1215.5	1279.3	1381.8	1552.7	1714.9	1915.1	2166.4	2447.0	2769.5	2920.5	3082.7
10°	853.2	932.9	1077.3	1217.6	1421.7	1611.9	1859.9	2169.8	2525.5	2703.7	2907.2
12.5°	538.6	609.8	800.6	958.2	1212.9	1433.7	1662.4	1943.0	2355.3	2538.2	2751.6
15°	307.9	367.7	456.8	659.0	941.6	1233.5	1518.8	1844.6	2268.2	2493.6	2724.3
17.5°	229.4	245.4	285.2	399.6	657.0	998.1	1386.5	1814.7	2327.3	2592.0	2855.3
20°	192.9	203.5	222.1	267.3	418.9	768.7	1257.4	1820.0	2518.8	2851.4	3101.4
22.5°	172.9	179.5	194.8	224.1	286.0	559.9	1106.5	1851.2	2750.9	3169.8	3458.4
25°	151.6	160.3	173.6	198.8	238.0	388.4	957.5	1921.1	3076.1	3574.2	3845.5
27.5°	135.0	143.0	156.3	179.5	208.8	296.6	784.0	1980.9	3419.2	3981.1	4203.2
30°	118.4	126.4	139.6	158.2	184.9	240.1	597.1	2016.1	3752.4	4286.3	4457.2
32.5°	104.4	111.0	123.7	140.3	162.2	203.5	470.8	1979.6	4007.0	4563.6	4678.0
35°	90.4	98.4	109.1	124.3	143.6	173.6	391.7	1853.2	4225.8	4848.9	4890.1
37.5°	75.8	85.1	96.4	110.4	125.7	159.6	314.5	1713.6	4459.9	5204.6	5136.8
40°	63.8	72.5	83.2	98.4	112.4	146.3	242.0	1564.7	4712.6	5538.4	5406.1
42.5°	51.8	61.2	73.8	87.8	111.0	127.7	187.5	1410.3	4939.3	5829.0	5649.5
45°	41.3	49.2	62.5	80.5	110.4	109.7	144.9	1258.1	5110.2	6036.5	5831.0
47.5°	32.6	39.2	52.5	78.5	101.7	93.1	116.4	1163.7	5289.7	6223.4	5970.0
50°	25.9	32.6	45.2	81.8	89.1	79.8	97.7	1179.0	5463.3	6318.4	6027.1
52.5°	21.9	28.6	39.2	64.5	68.5	69.8	85.8	1249.4	5687.4	6420.1	6140.9
55°	19.3	25.3	33.3	45.2	53.2	62.5	78.5	1300.6	5987.3	6638.3	6391.6
57.5°	15.3	21.9	29.9	38.6	43.8	54.5	72.5	1304.6	6258.6	6918.2	6724.7
59°	13.9	20.0	28.0	36.6	39.2	49.2	68.5	1270.7	6268.5	6960.1	6877.6
60°	12.6	19.3	26.6	33.9	37.3	46.5	65.1	1231.5	6178.1	6893.6	6940.8
62.5°	10.6	16.6	23.3	27.2	31.9	38.6	56.5	1089.2	5739.9	6592.4	6823.8
65°	9.3	14.6	20.0	22.6	26.6	33.3	49.9	871.8	5255.8	6184.1	6488.6
67.5°	8.6	13.3	17.3	19.3	23.3	30.6	44.6	615.8	4628.8	5666.1	5985.3
70°	8.0	12.6	15.3	17.9	20.6	25.9	37.9	359.1	3565.5	4757.7	5094.9
72.5°	8.0	12.0	13.3	15.3	17.9	23.3	35.2	194.2	2437.7	3629.4	4064.9
75°	8.0	11.3	12.0	13.3	16.0	21.3	31.2	101.7	1575.9	2521.5	3112.0
77.5°	8.0	10.6	12.0	12.6	15.3	18.6	27.2	63.8	1050.0	1766.1	2103.3
80°	8.6	10.6	11.3	12.6	14.6	17.3	22.6	42.6	617.1	1062.6	1280.0
82.5°	9.3	10.6	12.0	13.3	15.3	16.6	20.0	26.6	284.6	702.8	795.3
85°	9.9	11.3	12.6	13.9	16.0	16.6	18.6	19.3	46.5	317.2	428.9
87.5°	10.6	12.0	13.3	14.6	17.3	17.3	17.3	17.3	16.0	33.9	86.4
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: P647285

CATALOG NUMBER: GALN-SA2D-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2	2891.2
2.5°	3262.3	3337.4	3389.9	3403.2	3365.3	3348.0	3300.2	3225.7	3180.5	3178.5
5°	3437.8	3614.0	3736.4	3757.0	3683.9	3560.1	3413.3	3223.7	3112.7	3079.4
7.5°	3407.9	3716.4	3913.3	3941.9	3818.8	3582.8	3298.2	2992.9	2872.0	2820.8
10°	3284.9	3661.2	3942.6	3987.7	3823.5	3491.0	3129.3	2788.8	2638.6	2599.3
12.5°	3179.8	3560.1	3810.2	3872.7	3748.4	3416.5	3028.2	2657.8	2496.9	2460.3
15°	3134.0	3440.5	3593.4	3625.4	3604.7	3370.0	3017.6	2637.8	2453.7	2413.8
17.5°	3179.8	3338.7	3358.1	3390.6	3436.5	3365.3	3119.9	2746.3	2547.4	2498.2
20°	3300.2	3250.3	3170.5	3184.5	3289.5	3384.6	3302.1	2986.3	2744.3	2691.7
22.5°	3505.0	3228.4	3047.5	3035.5	3168.5	3449.1	3569.5	3311.5	3030.8	2979.0
25°	3756.4	3283.6	3002.3	2976.3	3121.3	3543.5	3860.1	3709.8	3403.2	3324.1
27.5°	4030.3	3397.9	3002.3	2977.0	3117.3	3627.3	4108.8	4062.2	3788.9	3702.5
30°	4180.6	3492.3	3045.5	3016.9	3166.5	3675.9	4241.7	4375.4	4078.9	3971.8
32.5°	4314.9	3623.3	3130.0	3076.1	3269.6	3747.7	4360.8	4641.4	4309.6	4237.8
35°	4438.6	3763.6	3246.3	3183.8	3405.3	3846.1	4492.5	4920.7	4630.7	4522.4
37.5°	4574.9	3926.6	3427.8	3374.7	3632.0	4037.6	4648.7	5287.8	4946.6	4810.3
40°	4723.2	4115.4	3726.5	3703.8	3992.4	4254.4	4846.2	5679.4	5307.0	5152.1
42.5°	4874.1	4332.9	4092.1	4129.4	4400.7	4558.3	5049.0	5980.6	5602.3	5431.4
45°	5011.1	4610.8	4567.6	4751.8	4876.8	4854.8	5199.3	6192.7	5859.6	5696.0
47.5°	5184.0	5015.7	5142.7	5426.7	5430.0	5177.4	5313.0	6366.3	6081.0	5917.4
50°	5377.5	5493.8	5885.5	6174.8	6097.0	5494.5	5446.0	6571.8	6309.8	6178.8
52.5°	5601.6	6029.2	6571.8	6892.9	6711.4	5840.3	5667.4	6793.9	6672.8	6547.1
55°	5862.2	6394.2	7256.0	7512.0	7329.1	6269.9	6003.9	7095.1	7083.1	6997.4
57.5°	6156.8	6779.9	7652.3	7998.7	7835.9	6773.9	6474.0	7379.0	7333.8	7285.9
59°	6389.6	6978.0	7827.2	8186.3	8087.8	7127.0	6789.9	7555.9	7391.7	7319.9
60°	6530.5	7112.4	7891.7	8211.6	8188.9	7337.1	6990.0	7642.3	7391.0	7291.2
62.5°	6948.8	7347.1	7867.1	8099.2	8187.6	7740.1	7577.2	7737.4	7254.0	7107.8
65°	7097.7	7269.3	7459.5	7430.9	7506.7	7719.5	7952.2	7633.1	6961.4	6753.3
67.5°	6807.8	6416.1	6483.3	6292.5	6255.2	6863.0	7799.9	7122.3	6388.9	6134.3
70°	5738.6	4915.4	4881.5	4969.2	4728.5	5556.4	7004.0	6138.9	5444.0	5155.4
72.5°	4517.0	3473.7	3187.8	3511.0	3503.7	4239.1	5818.4	4356.1	3677.9	3653.2
75°	3552.2	2418.5	2122.6	2175.1	2276.2	3068.8	4634.1	2766.2	2264.8	2064.0
77.5°	2384.5	1713.6	1598.6	1534.1	1643.1	1970.3	2931.8	1500.1	1270.1	1202.9
80°	1374.5	1244.8	1413.7	1283.3	1341.9	1241.4	1458.3	688.3	571.2	618.4
82.5°	894.3	708.8	755.4	561.3	767.3	774.0	468.2	203.5	172.3	182.8
85°	559.2	332.5	186.8	133.0	264.7	486.7	146.3	12.6	14.6	12.6
87.5°	144.9	55.2	23.3	34.6	42.6	37.9	33.9	2.0	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)