

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: P646845

Luminaire Tested: **GALN-SA3C-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646845
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-SA3C-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA 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: 11801.4 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

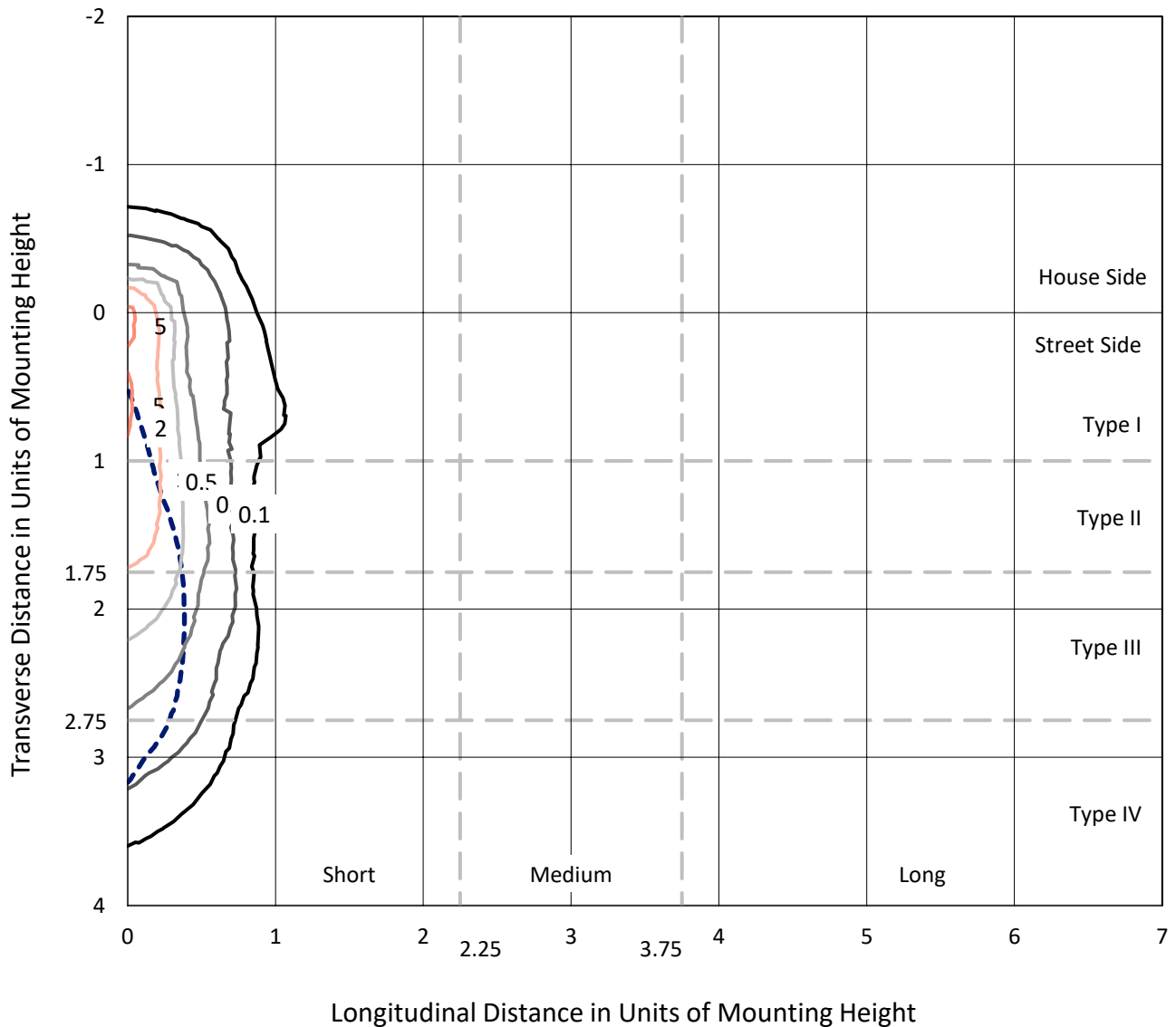
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

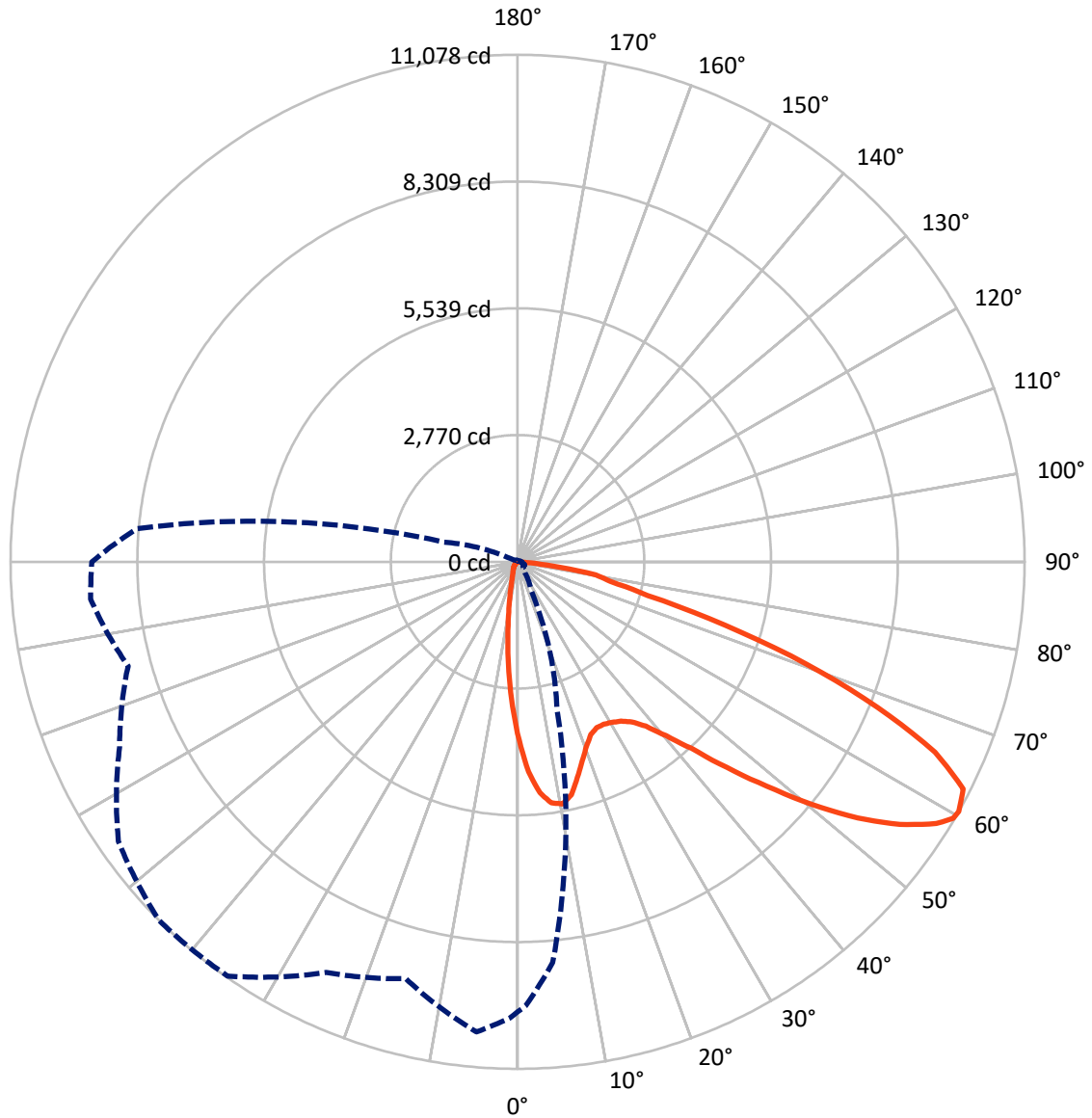
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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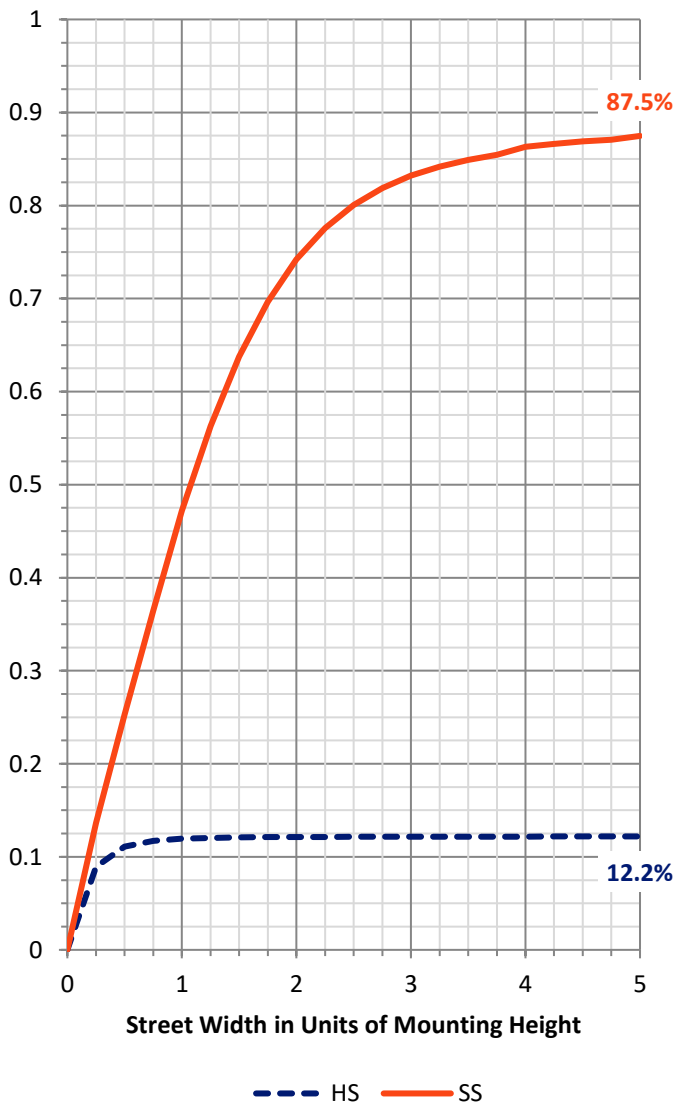
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1455.6	0.0	1455.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	10345.8	0.0	10345.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	11801.4	0.0	11801.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	2.5
10°-20°	576.2	4.9
20°-30°	844.8	7.2
30°-40°	1256.4	10.6
40°-50°	1828.4	15.5
50°-60°	2636.7	22.3
60°-70°	2900.1	24.6
70°-80°	1299.0	11.0
80°-90°	169.7	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°	11801.4	100.0
0°-180°	11801.4	100.0

Coefficient of Utilization



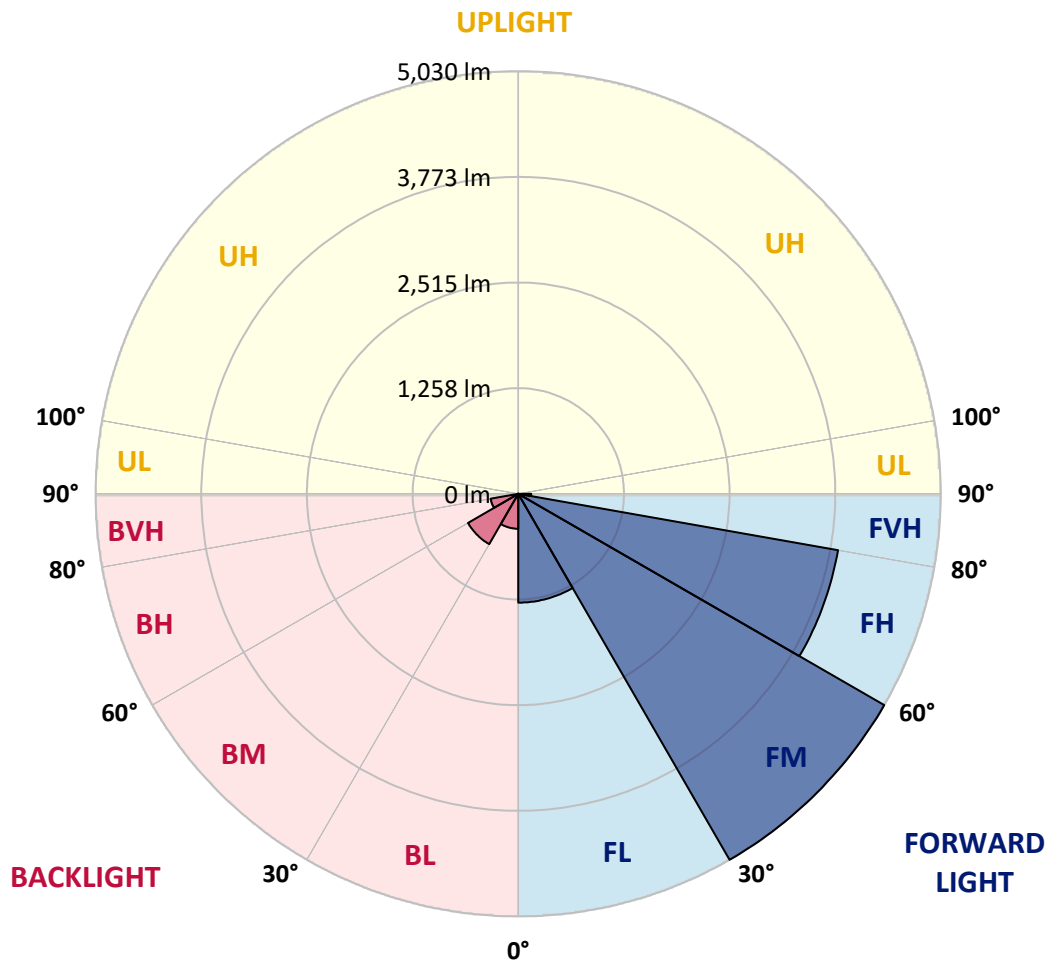
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.2	11.0			
FM (30°-60°)	5030.1	42.6			
FH (60°-80°)	3865.3	32.8			G2/5000
FVH (80°-90°)	155.2	1.3			G2/225
BL (0°-30°)	415.9	3.5	B1/500		
BM (30°-60°)	691.4	5.9	B1/1000		
BH (60°-80°)	333.8	2.8	B1/500		G1/500
BVH (80°-90°)	14.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5
2.5°	4288.1	4269.2	4226.2	4095.2	3981.2	3832.3	3681.7	3563.2	3490.5	3356.9	3295.9
5°	4154.4	4163.4	4038.6	3769.5	3469.9	3265.4	3042.0	2864.4	2668.9	2545.1	2414.9
7.5°	3805.5	3787.5	3652.1	3277.0	2912.8	2616.8	2334.2	2104.5	1960.2	1844.4	1747.5
10°	3506.7	3493.3	3320.1	2837.5	2446.3	2224.7	2033.7	1832.8	1677.6	1508.0	1372.5
12.5°	3319.2	3288.7	3089.6	2585.4	2266.9	2060.6	1852.5	1643.4	1429.1	1257.7	1093.5
15°	3256.4	3212.5	2990.9	2498.4	2152.1	1890.2	1629.1	1388.7	1142.0	952.7	828.9
17.5°	3370.3	3297.7	3061.8	2483.1	2014.8	1667.7	1346.5	1033.4	776.9	632.4	556.2
20°	3631.4	3548.0	3241.2	2467.9	1862.4	1418.3	1023.5	730.2	537.4	458.4	416.2
22.5°	4018.9	3904.1	3506.7	2492.1	1721.5	1175.2	739.2	515.8	427.0	377.6	348.0
25°	4484.6	4388.6	3843.1	2578.2	1610.2	984.1	571.4	421.6	359.7	329.3	306.8
27.5°	4995.0	4841.6	4278.2	2681.4	1508.9	836.1	501.4	376.8	320.2	292.5	280.8
30°	5358.3	5239.0	4642.4	2753.2	1382.4	724.8	458.4	371.4	321.2	288.0	266.5
32.5°	5717.2	5564.6	4947.4	2786.3	1290.0	647.7	396.5	323.8	281.7	264.7	243.1
35°	6101.1	5941.4	5251.5	2768.4	1220.9	596.6	359.7	288.8	241.3	212.6	191.1
37.5°	6489.5	6320.8	5553.8	2703.8	1177.9	575.9	331.1	274.5	227.9	198.3	174.9
40°	6950.6	6725.4	5837.3	2650.8	1133.0	565.2	312.2	265.5	218.0	186.6	163.3
42.5°	7327.4	7113.0	6105.5	2623.0	1102.5	540.0	312.2	258.4	211.7	176.7	152.5
45°	7684.4	7461.9	6395.3	2645.5	1089.9	508.6	315.8	257.5	207.3	169.5	145.3
47.5°	7983.2	7790.3	6693.2	2729.9	1073.8	474.6	296.9	270.1	204.5	163.3	138.1
50°	8335.7	8149.2	7086.9	2900.3	1045.1	440.4	273.6	290.6	203.7	157.9	131.9
52.5°	8832.7	8630.9	7630.6	3094.0	999.3	388.4	252.0	288.0	200.1	148.9	125.6
55°	9440.0	9276.7	8260.3	3326.4	936.5	330.1	218.0	255.6	189.3	133.7	114.8
57.5°	9829.4	9690.3	8732.3	3426.9	840.6	270.1	192.0	214.4	173.1	119.3	102.3
59°	9875.1	9749.5	8830.9	3393.7	777.8	246.7	179.4	183.9	168.7	111.3	95.1
60°	9836.5	9706.5	8791.4	3329.1	719.5	230.5	168.7	163.3	169.5	106.7	89.7
62.5°	9588.9	9366.5	8408.4	3001.6	628.8	211.7	149.8	133.7	149.8	96.0	79.9
65°	9110.8	8777.0	7650.3	2540.5	593.0	200.9	127.4	112.1	113.9	84.3	69.1
67.5°	8275.6	7854.9	6641.1	2064.2	577.7	201.9	107.7	100.5	87.9	71.8	61.0
70°	6955.1	6535.2	5328.7	1698.2	570.6	201.9	91.5	86.1	73.5	60.1	52.9
72.5°	4928.6	4476.5	3594.6	1334.0	514.0	200.9	78.1	78.1	60.1	50.3	43.1
75°	2784.6	2788.1	2259.7	943.7	427.0	166.0	62.8	61.9	43.9	38.6	32.3
77.5°	1622.8	1594.1	1523.2	405.5	198.3	75.3	43.9	37.7	30.5	27.8	23.3
80°	834.3	686.3	668.3	147.1	70.9	47.5	30.5	21.5	19.7	17.9	16.1
82.5°	246.7	247.6	220.6	59.2	39.5	31.4	15.3	11.7	10.7	9.9	9.9
85°	17.1	10.7	12.5	17.9	24.2	12.5	0.9	2.7	2.7	3.6	4.5
87.5°	1.8	0.9	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5
2.5°	3228.6	3268.1	3194.5	3196.3	3135.3	3155.0	3083.3	3106.6	3064.4	3096.8	3191.8
5°	2429.3	2438.3	2379.1	2360.2	2369.2	2406.0	2420.3	2354.9	2382.7	2327.9	2324.3
7.5°	1711.6	1722.4	1688.3	1683.8	1748.4	1733.2	1761.0	1693.7	1630.0	1657.8	1606.7
10°	1329.5	1284.6	1214.7	1194.9	1182.3	1190.4	1190.4	1129.4	1120.5	1096.2	1133.0
12.5°	1049.6	994.9	928.5	838.7	816.4	814.6	781.4	727.6	710.5	689.8	720.4
15°	762.5	740.1	684.5	634.2	583.1	573.2	519.4	475.4	417.2	409.0	406.4
17.5°	536.4	503.2	502.4	473.6	444.0	424.3	374.1	323.8	301.5	298.7	298.7
20°	401.9	390.2	371.4	367.8	358.8	336.4	291.6	264.7	253.8	254.8	258.4
22.5°	338.2	330.1	313.0	305.0	301.5	281.7	248.5	230.5	225.2	225.2	226.1
25°	302.3	295.1	276.3	263.7	259.3	244.9	218.9	205.5	200.9	200.9	200.9
27.5°	275.4	266.5	246.7	235.9	227.9	211.7	195.6	182.1	177.6	177.6	178.5
30°	256.6	246.7	228.8	214.4	201.9	187.5	174.1	162.4	157.0	156.1	157.0
32.5°	231.5	222.5	204.5	195.6	181.2	164.2	153.4	142.7	137.3	138.1	137.3
35°	180.3	177.6	165.1	167.7	159.7	145.3	135.5	123.8	117.5	116.6	118.4
37.5°	164.2	153.4	139.1	139.9	137.3	131.9	115.7	103.2	98.7	98.7	99.6
40°	151.6	140.9	124.7	116.6	117.5	117.5	100.5	87.0	82.5	81.7	83.5
42.5°	140.9	130.1	112.1	98.7	95.1	99.6	85.2	71.8	67.3	65.5	67.3
45°	133.7	122.0	101.4	86.1	75.3	80.7	70.0	59.2	53.8	53.8	52.9
47.5°	126.5	115.7	93.3	74.5	62.8	60.1	57.4	47.5	42.1	41.3	42.1
50°	120.2	109.5	84.3	64.6	52.9	46.7	46.7	37.7	34.1	32.3	33.2
52.5°	113.9	102.3	76.3	57.4	45.7	37.7	33.2	30.5	27.8	26.9	27.8
55°	104.9	93.3	68.2	49.3	39.5	31.4	26.0	25.1	23.3	21.5	23.3
57.5°	94.2	83.5	60.1	42.1	31.4	24.2	21.5	20.7	18.9	17.9	17.9
59°	87.9	78.1	55.6	36.8	27.8	21.5	19.7	18.9	17.1	15.3	16.1
60°	84.3	76.3	52.9	34.1	25.1	19.7	17.9	17.1	15.3	14.3	15.3
62.5°	74.5	68.2	46.7	27.8	19.7	14.3	12.5	13.5	12.5	11.7	12.5
65°	65.5	60.1	39.5	21.5	15.3	9.9	9.0	11.7	10.7	9.9	10.7
67.5°	58.3	52.1	33.2	16.1	10.7	5.4	6.3	9.9	9.9	9.0	9.9
70°	50.3	44.9	26.9	11.7	5.4	2.7	4.5	7.2	9.0	8.1	9.0
72.5°	41.3	35.0	20.7	8.1	2.7	0.0	2.7	6.3	9.0	8.1	9.0
75°	32.3	26.0	15.3	4.5	0.0	0.0	0.9	5.4	9.0	8.1	9.0
77.5°	23.3	18.9	9.0	0.9	0.0	0.0	0.9	5.4	9.0	8.1	9.0
80°	15.3	13.5	3.6	0.0	0.0	0.0	0.9	5.4	9.0	9.0	9.9
82.5°	9.9	7.2	0.0	0.0	0.0	0.0	1.8	7.2	9.9	10.7	10.7
85°	4.5	0.0	0.0	0.0	0.0	0.0	3.6	9.0	11.7	11.7	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.3	10.7	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5
2.5°	3208.0	3264.5	3344.3	3467.2	3566.8	3723.8	3844.0	4008.2	4174.2	4224.4	4302.4
5°	2361.1	2433.8	2615.0	2780.0	2884.1	3216.0	3425.9	3757.0	4053.9	4196.6	4351.8
7.5°	1639.8	1726.0	1864.2	2094.7	2313.6	2583.6	2922.7	3301.3	3736.3	3940.0	4158.9
10°	1150.9	1258.6	1453.2	1642.6	1918.0	2174.5	2509.1	2927.2	3407.1	3647.5	3922.0
12.5°	726.6	822.6	1080.1	1292.7	1636.3	1934.1	2242.7	2621.2	3177.5	3424.1	3712.1
15°	415.4	496.1	616.3	889.0	1270.3	1664.1	2049.0	2488.5	3060.0	3364.1	3675.3
17.5°	309.5	331.1	384.8	539.2	886.4	1346.5	1870.4	2448.1	3139.8	3496.8	3852.0
20°	260.2	274.5	299.7	360.6	565.2	1037.0	1696.4	2455.3	3398.1	3846.7	4184.0
22.5°	233.3	242.2	262.9	302.3	385.8	755.4	1492.7	2497.5	3711.3	4276.4	4665.7
25°	204.5	216.2	234.1	268.3	321.2	523.9	1291.8	2591.7	4149.9	4821.8	5187.8
27.5°	182.1	192.9	210.8	242.2	281.7	400.1	1057.7	2672.4	4612.8	5370.8	5670.5
30°	159.7	170.5	188.4	213.5	249.4	323.8	805.6	2720.0	5062.3	5782.6	6013.1
32.5°	140.9	149.8	166.9	189.3	218.9	274.5	635.2	2670.7	5405.8	6156.7	6311.0
35°	122.0	132.8	147.1	167.7	193.8	234.1	528.4	2500.2	5700.9	6541.6	6597.2
37.5°	102.3	114.8	130.1	148.9	169.5	215.3	424.3	2311.8	6016.7	7021.5	6929.9
40°	86.1	97.8	112.1	132.8	151.6	197.4	326.5	2110.8	6357.6	7471.9	7293.3
42.5°	70.0	82.5	99.6	118.4	149.8	172.3	253.0	1902.7	6663.6	7863.8	7621.6
45°	55.6	66.4	84.3	108.5	148.9	148.0	195.6	1697.3	6894.1	8143.7	7866.6
47.5°	43.9	52.9	70.9	105.9	137.3	125.6	157.0	1569.9	7136.3	8395.8	8054.0
50°	35.0	43.9	61.0	110.3	120.2	107.7	131.9	1590.5	7370.5	8524.1	8131.1
52.5°	29.6	38.6	52.9	87.0	92.4	94.2	115.7	1685.6	7672.8	8661.4	8284.6
55°	26.0	34.1	44.9	61.0	71.8	84.3	105.9	1754.7	8077.3	8955.6	8622.8
57.5°	20.7	29.6	40.4	52.1	59.2	73.5	97.8	1760.1	8443.3	9333.3	9072.2
59°	18.9	26.9	37.7	49.3	52.9	66.4	92.4	1714.3	8456.8	9389.8	9278.6
60°	17.1	26.0	35.9	45.7	50.3	62.8	87.9	1661.4	8334.8	9300.1	9363.7
62.5°	14.3	22.4	31.4	36.8	43.1	52.1	76.3	1469.5	7743.6	8893.7	9205.9
65°	12.5	19.7	26.9	30.5	35.9	44.9	67.3	1176.1	7090.5	8342.9	8753.8
67.5°	11.7	17.9	23.3	26.0	31.4	41.3	60.1	830.7	6244.6	7644.0	8074.7
70°	10.7	17.1	20.7	24.2	27.8	35.0	51.1	484.4	4810.2	6418.6	6873.5
72.5°	10.7	16.1	17.9	20.7	24.2	31.4	47.5	261.9	3288.7	4896.3	5483.9
75°	10.7	15.3	16.1	17.9	21.5	28.7	42.1	137.3	2126.1	3401.7	4198.4
77.5°	10.7	14.3	16.1	17.1	20.7	25.1	36.8	86.1	1416.5	2382.7	2837.5
80°	11.7	14.3	15.3	17.1	19.7	23.3	30.5	57.4	832.5	1433.5	1726.9
82.5°	12.5	14.3	16.1	17.9	20.7	22.4	26.9	35.9	384.0	948.2	1072.9
85°	13.5	15.3	17.1	18.9	21.5	22.4	25.1	26.0	62.8	427.9	578.6
87.5°	14.3	16.1	17.9	19.7	23.3	23.3	23.3	23.3	21.5	45.7	116.6
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: P646845

CATALOG NUMBER: GALN-SA3C-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5	3900.5
2.5°	4401.1	4502.5	4573.3	4591.3	4540.1	4516.8	4452.2	4351.8	4290.8	4288.1
5°	4637.9	4875.7	5040.7	5068.5	4969.9	4803.0	4604.7	4349.1	4199.2	4154.4
7.5°	4597.5	5013.8	5279.4	5317.9	5152.0	4833.5	4449.6	4037.8	3874.5	3805.5
10°	4431.6	4939.3	5318.8	5379.8	5158.2	4709.7	4221.7	3762.4	3559.6	3506.7
12.5°	4289.8	4803.0	5140.3	5224.6	5056.8	4609.2	4085.3	3585.7	3368.5	3319.2
15°	4228.0	4641.5	4847.9	4890.9	4863.1	4546.4	4071.0	3558.7	3310.2	3256.4
17.5°	4289.8	4504.3	4530.3	4574.2	4636.1	4540.1	4209.1	3704.9	3436.7	3370.3
20°	4452.2	4385.0	4277.3	4296.2	4437.9	4566.1	4455.0	4028.8	3702.3	3631.4
22.5°	4728.5	4355.4	4111.4	4095.2	4274.6	4653.2	4815.5	4467.5	4088.9	4018.9
25°	5067.7	4429.8	4050.3	4015.4	4210.9	4780.5	5207.6	5004.9	4591.3	4484.6
27.5°	5437.2	4584.1	4050.3	4016.2	4205.6	4893.6	5543.1	5480.3	5111.6	4995.0
30°	5639.9	4711.5	4108.6	4070.0	4271.9	4959.1	5722.5	5902.8	5502.7	5358.3
32.5°	5821.2	4888.2	4222.6	4149.9	4411.0	5056.0	5883.1	6261.7	5814.0	5717.2
35°	5988.1	5077.5	4379.6	4295.2	4593.9	5188.7	6060.7	6638.4	6247.3	6101.1
37.5°	6171.9	5297.3	4624.5	4552.7	4899.9	5447.1	6271.5	7133.6	6673.4	6489.5
40°	6372.0	5552.0	5027.3	4996.8	5386.1	5739.5	6538.0	7662.0	7159.6	6950.6
42.5°	6575.6	5845.4	5520.6	5570.9	5936.9	6149.5	6811.6	8068.3	7557.9	7327.4
45°	6760.4	6220.4	6162.1	6410.6	6579.2	6549.6	7014.3	8354.5	7905.1	7684.4
47.5°	6993.7	6766.7	6938.1	7321.1	7325.6	6984.7	7167.7	8588.6	8203.8	7983.2
50°	7254.7	7411.7	7940.1	8330.3	8225.3	7412.6	7347.1	8865.9	8512.5	8335.7
52.5°	7557.0	8133.9	8865.9	9299.1	9054.3	7879.1	7645.8	9165.5	9002.2	8832.7
55°	7908.7	8626.4	9789.0	10134.4	9887.6	8458.6	8099.7	9571.9	9555.7	9440.0
57.5°	8306.1	9146.7	10323.6	10791.0	10571.2	9138.6	8734.1	9955.0	9893.9	9829.4
59°	8620.0	9414.0	10559.6	11044.0	10911.3	9614.9	9160.2	10193.6	9972.0	9875.1
60°	8810.2	9595.2	10646.6	11078.1	11047.6	9898.5	9430.1	10310.2	9971.1	9836.5
62.5°	9374.5	9911.9	10613.4	10926.5	11045.8	10442.1	10222.3	10438.5	9786.3	9588.9
65°	9575.5	9806.9	10063.5	10024.9	10127.2	10414.3	10728.2	10297.6	9391.6	9110.8
67.5°	9184.4	8656.0	8746.6	8489.1	8438.9	9258.8	10522.8	9608.7	8619.2	8275.6
70°	7741.8	6631.2	6585.5	6703.9	6379.2	7496.1	9449.0	8281.9	7344.5	6955.1
72.5°	6093.9	4686.3	4300.6	4736.6	4726.7	5718.9	7849.5	5876.8	4961.8	4928.6
75°	4792.2	3262.7	2863.5	2934.4	3070.7	4140.0	6251.8	3731.9	3055.5	2784.6
77.5°	3217.0	2311.8	2156.6	2069.5	2216.7	2658.1	3955.2	2023.8	1713.4	1622.8
80°	1854.3	1679.4	1907.2	1731.4	1810.3	1674.8	1967.3	928.5	770.6	834.3
82.5°	1206.6	956.3	1019.1	757.2	1035.2	1044.2	631.6	274.5	232.3	246.7
85°	754.4	448.6	252.0	179.4	357.0	656.7	197.4	17.1	19.7	17.1
87.5°	195.6	74.5	31.4	46.7	57.4	51.1	45.7	2.7	0.9	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)