

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: P458904

Luminaire Tested: **GALN-SA4B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458904
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-SA4B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 15059 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

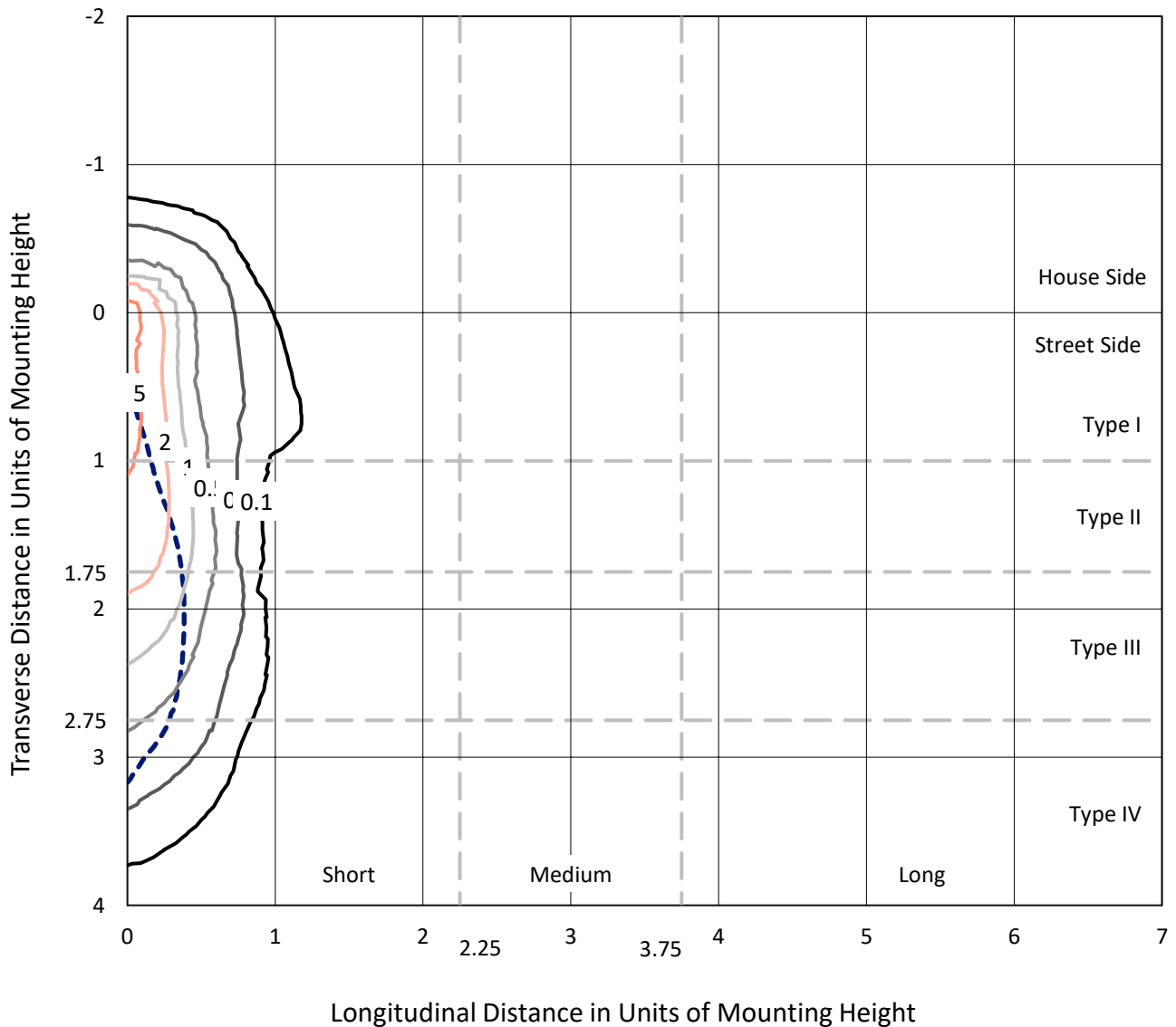
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

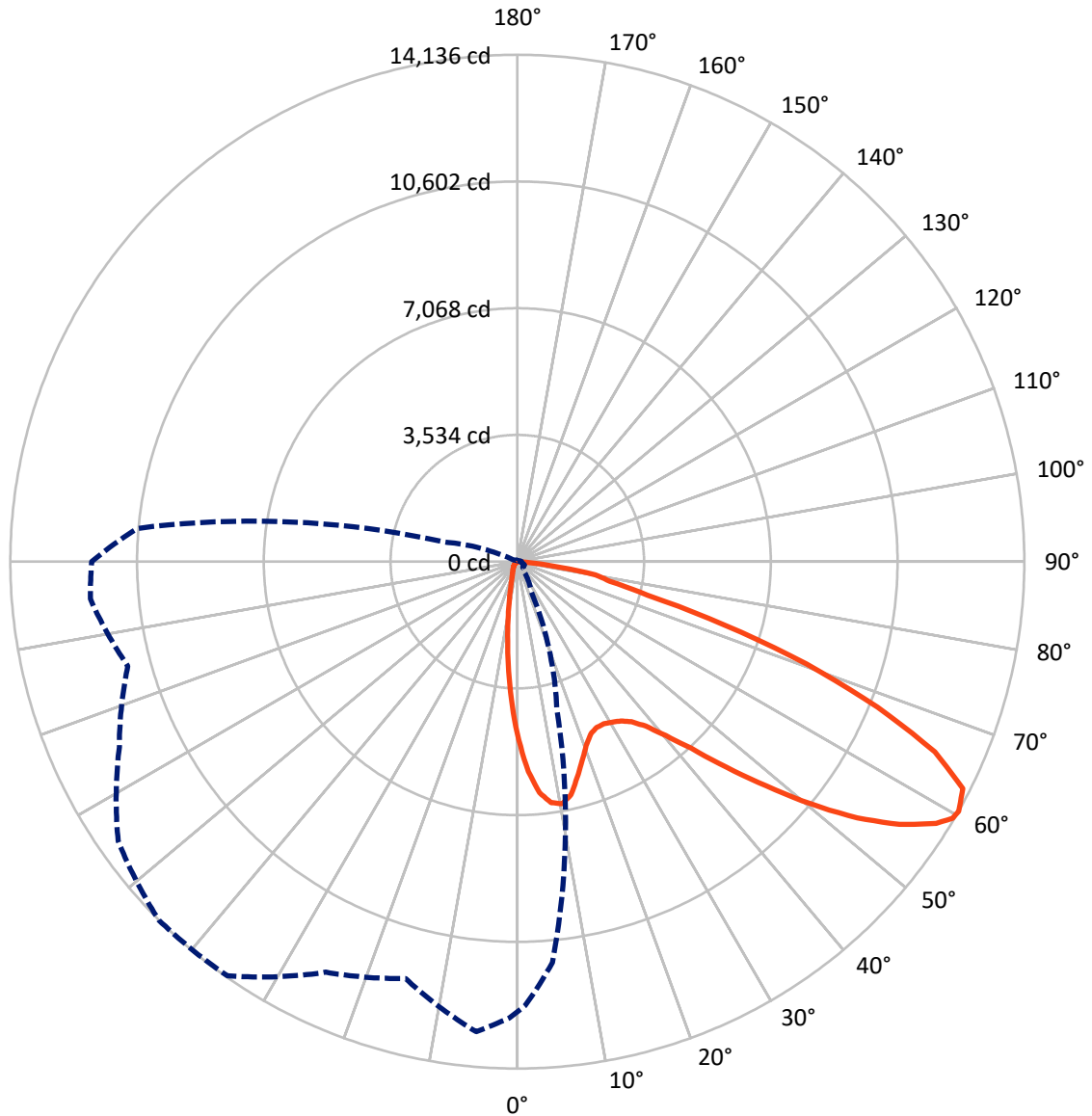
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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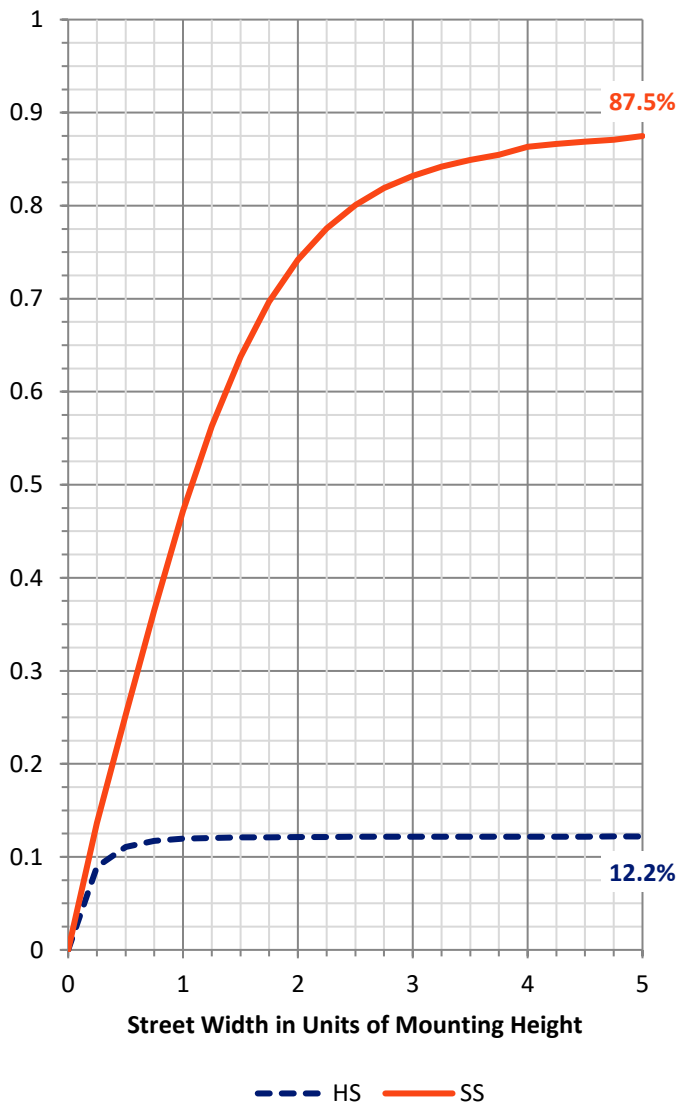
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1857.4	0.0	1857.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13201.6	0.0	13201.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	15059.0	0.0	15059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	2.5
10°-20°	735.2	4.9
20°-30°	1078.0	7.2
30°-40°	1603.2	10.6
40°-50°	2333.1	15.5
50°-60°	3364.5	22.3
60°-70°	3700.6	24.6
70°-80°	1657.6	11.0
80°-90°	216.6	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°	15059.0	100.0
0°-180°	15059.0	100.0

Coefficient of Utilization



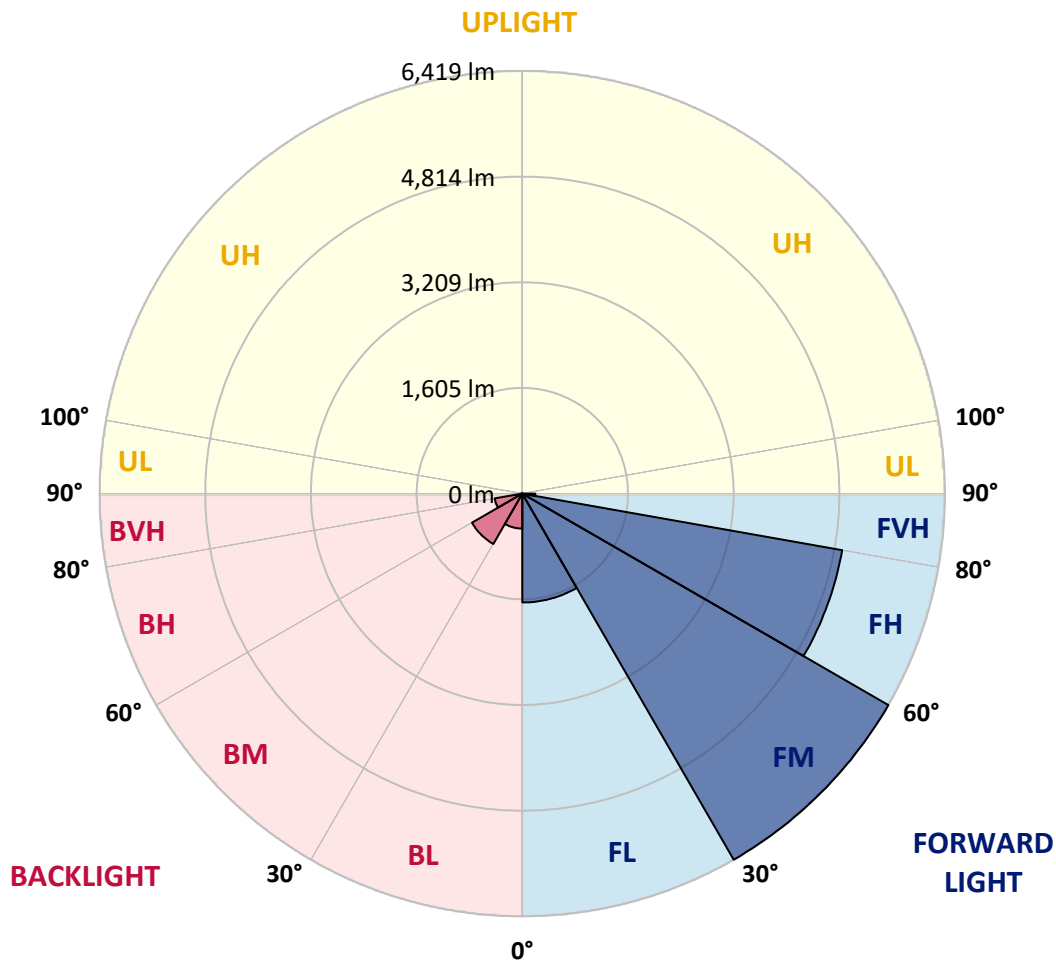
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.7	11.0			
FM (30°-60°)	6418.6	42.6			
FH (60°-80°)	4932.3	32.8			G2/5000
FVH (80°-90°)	198.1	1.3			G2/225
BL (0°-30°)	530.7	3.5	B2/1000		
BM (30°-60°)	882.2	5.9	B1/1000		
BH (60°-80°)	425.9	2.8	B1/500		G1/500
BVH (80°-90°)	18.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2
2.5°	5471.7	5447.7	5392.7	5225.6	5080.2	4890.2	4697.9	4546.8	4454.1	4283.5	4205.7
5°	5301.2	5312.6	5153.5	4810.1	4427.8	4166.8	3881.7	3655.1	3405.5	3247.6	3081.6
7.5°	4855.9	4833.0	4660.1	4181.6	3716.9	3339.1	2978.5	2685.5	2501.2	2353.5	2229.9
10°	4474.7	4457.5	4236.6	3620.7	3121.6	2838.9	2595.1	2338.6	2140.6	1924.3	1751.4
12.5°	4235.4	4196.5	3942.4	3299.1	2892.7	2629.4	2363.8	2097.1	1823.5	1604.9	1395.4
15°	4155.3	4099.2	3816.5	3188.0	2746.2	2411.9	2078.8	1772.0	1457.2	1215.7	1057.7
17.5°	4300.7	4208.0	3906.9	3168.6	2571.0	2128.0	1718.2	1318.7	991.3	807.0	709.7
20°	4633.8	4527.3	4135.9	3149.1	2376.4	1809.8	1306.1	931.8	685.7	584.9	531.1
22.5°	5128.3	4981.8	4474.7	3180.0	2196.7	1499.6	943.2	658.2	544.9	481.9	444.1
25°	5722.4	5599.9	4904.0	3289.9	2054.8	1255.8	729.2	538.0	459.0	420.1	391.5
27.5°	6373.8	6178.0	5459.1	3421.5	1925.4	1066.9	639.9	480.8	408.7	373.2	358.3
30°	6837.4	6685.1	5923.9	3513.1	1764.0	924.9	584.9	473.9	409.8	367.5	340.0
32.5°	7295.3	7100.7	6313.1	3555.5	1646.1	826.5	506.0	413.2	359.4	337.7	310.2
35°	7785.2	7581.4	6701.2	3532.6	1558.0	761.2	459.0	368.6	307.9	271.3	243.8
37.5°	8280.9	8065.7	7086.9	3450.2	1503.0	734.9	422.4	350.3	290.8	253.0	223.2
40°	8869.2	8581.9	7448.7	3382.6	1445.8	721.2	398.4	338.8	278.2	238.1	208.3
42.5°	9350.0	9076.4	7790.9	3347.1	1406.9	689.1	398.4	329.7	270.2	225.5	194.6
45°	9805.6	9521.7	8160.7	3375.8	1390.8	649.1	402.9	328.5	264.4	216.4	185.4
47.5°	10186.8	9940.7	8540.7	3483.4	1370.2	605.6	378.9	344.6	261.0	208.3	176.3
50°	10636.7	10398.6	9043.2	3700.9	1333.6	562.1	349.1	370.9	259.8	201.5	168.3
52.5°	11270.9	11013.3	9736.9	3948.1	1275.2	495.7	321.7	367.5	255.3	190.0	160.3
55°	12045.8	11837.5	10540.5	4244.6	1195.1	421.3	278.2	326.2	241.5	170.6	146.5
57.5°	12542.6	12365.2	11142.6	4372.8	1072.6	344.6	245.0	273.6	220.9	152.2	130.5
59°	12601.0	12440.7	11268.6	4330.5	992.5	314.8	228.9	234.7	215.2	141.9	121.3
60°	12551.8	12385.8	11218.2	4248.0	918.1	294.2	215.2	208.3	216.4	136.2	114.5
62.5°	12235.8	11952.0	10729.4	3830.2	802.4	270.2	191.2	170.6	191.2	122.5	101.9
65°	11625.7	11199.9	9762.1	3241.8	756.7	256.4	162.5	143.1	145.4	107.6	88.1
67.5°	10560.0	10023.1	8474.3	2634.0	737.2	257.6	137.4	128.2	112.2	91.6	77.8
70°	8875.0	8339.2	6799.6	2166.9	728.0	257.6	116.8	109.9	93.9	76.7	67.5
72.5°	6289.1	5712.1	4586.9	1702.2	655.9	256.4	99.6	99.6	76.7	64.1	54.9
75°	3553.2	3557.8	2883.5	1204.2	544.9	211.8	80.1	79.0	56.1	49.2	41.2
77.5°	2070.8	2034.2	1943.7	517.4	253.0	96.2	56.1	48.1	38.9	35.5	29.8
80°	1064.6	875.7	852.8	187.7	90.4	60.7	38.9	27.5	25.2	22.9	20.6
82.5°	314.8	315.9	281.6	75.6	50.4	40.1	19.5	14.9	13.7	12.6	12.6
85°	21.7	13.7	16.0	22.9	30.9	16.0	1.1	3.4	3.4	4.6	5.7
87.5°	2.3	1.1	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°	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2
2.5°	4119.8	4170.2	4076.3	4078.6	4000.8	4026.0	3934.4	3964.1	3910.3	3951.6	4072.9
5°	3099.9	3111.3	3035.8	3011.7	3023.2	3070.1	3088.4	3004.9	3040.4	2970.5	2966.0
7.5°	2184.1	2197.9	2154.4	2148.6	2231.0	2211.6	2247.1	2161.2	2079.9	2115.4	2050.2
10°	1696.5	1639.2	1549.9	1524.8	1508.7	1519.0	1519.0	1441.2	1429.7	1398.8	1445.8
12.5°	1339.3	1269.5	1184.8	1070.3	1041.7	1039.4	997.0	928.4	906.6	880.3	919.2
15°	973.0	944.4	873.4	809.3	744.1	731.5	662.8	606.7	532.3	522.0	518.6
17.5°	684.5	642.2	641.0	604.4	566.6	541.4	477.3	413.2	384.6	381.2	381.2
20°	512.8	498.0	473.9	469.3	457.9	429.3	372.0	337.7	324.0	325.1	329.7
22.5°	431.6	421.3	399.5	389.2	384.6	359.4	317.1	294.2	287.3	287.3	288.5
25°	385.8	376.6	352.6	336.5	330.8	312.5	279.3	262.1	256.4	256.4	256.4
27.5°	351.4	340.0	314.8	301.1	290.8	270.2	249.5	232.4	226.7	226.7	227.8
30°	327.4	314.8	291.9	273.6	257.6	239.2	222.1	207.2	200.3	199.2	200.3
32.5°	295.3	283.9	261.0	249.5	231.2	209.5	195.7	182.0	175.1	176.3	175.1
35°	230.1	226.7	210.6	214.1	203.8	185.4	172.9	158.0	150.0	148.8	151.1
37.5°	209.5	195.7	177.4	178.6	175.1	168.3	147.7	131.6	125.9	125.9	127.1
40°	193.5	179.7	159.1	148.8	150.0	150.0	128.2	111.0	105.3	104.2	106.5
42.5°	179.7	166.0	143.1	125.9	121.3	127.1	108.7	91.6	85.9	83.6	85.9
45°	170.6	155.7	129.4	109.9	96.2	103.0	89.3	75.6	68.7	68.7	67.5
47.5°	161.4	147.7	119.1	95.0	80.1	76.7	73.3	60.7	53.8	52.7	53.8
50°	153.4	139.7	107.6	82.4	67.5	59.5	59.5	48.1	43.5	41.2	42.4
52.5°	145.4	130.5	97.3	73.3	58.4	48.1	42.4	38.9	35.5	34.3	35.5
55°	133.9	119.1	87.0	63.0	50.4	40.1	33.2	32.1	29.8	27.5	29.8
57.5°	120.2	106.5	76.7	53.8	40.1	30.9	27.5	26.3	24.0	22.9	22.9
59°	112.2	99.6	71.0	46.9	35.5	27.5	25.2	24.0	21.7	19.5	20.6
60°	107.6	97.3	67.5	43.5	32.1	25.2	22.9	21.7	19.5	18.3	19.5
62.5°	95.0	87.0	59.5	35.5	25.2	18.3	16.0	17.2	16.0	14.9	16.0
65°	83.6	76.7	50.4	27.5	19.5	12.6	11.4	14.9	13.7	12.6	13.7
67.5°	74.4	66.4	42.4	20.6	13.7	6.9	8.0	12.6	12.6	11.4	12.6
70°	64.1	57.2	34.3	14.9	6.9	3.4	5.7	9.2	11.4	10.3	11.4
72.5°	52.7	44.6	26.3	10.3	3.4	0.0	3.4	8.0	11.4	10.3	11.4
75°	41.2	33.2	19.5	5.7	0.0	0.0	1.1	6.9	11.4	10.3	11.4
77.5°	29.8	24.0	11.4	1.1	0.0	0.0	1.1	6.9	11.4	10.3	11.4
80°	19.5	17.2	4.6	0.0	0.0	0.0	1.1	6.9	11.4	11.4	12.6
82.5°	12.6	9.2	0.0	0.0	0.0	0.0	2.3	9.2	12.6	13.7	13.7
85°	5.7	0.0	0.0	0.0	0.0	0.0	4.6	11.4	14.9	14.9	14.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	8.0	13.7	17.2	17.2	17.2
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°	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2
2.5°	4093.5	4165.6	4267.5	4424.3	4551.4	4751.7	4905.1	5114.6	5326.4	5390.5	5490.0
5°	3012.9	3105.6	3336.8	3547.5	3680.3	4103.8	4371.7	4794.1	5173.0	5355.0	5553.0
7.5°	2092.5	2202.4	2378.7	2672.9	2952.2	3296.8	3729.5	4212.5	4767.7	5027.6	5306.9
10°	1468.7	1606.0	1854.4	2096.0	2447.4	2774.8	3201.8	3735.2	4347.6	4654.4	5004.7
12.5°	927.2	1049.7	1378.2	1649.5	2088.0	2468.0	2861.8	3344.9	4054.6	4369.4	4736.8
15°	530.0	633.0	786.4	1134.4	1620.9	2123.4	2614.5	3175.4	3904.6	4292.7	4689.9
17.5°	394.9	422.4	491.1	688.0	1131.0	1718.2	2386.7	3123.9	4006.5	4462.1	4915.4
20°	332.0	350.3	382.3	460.2	721.2	1323.3	2164.7	3133.1	4336.2	4908.5	5338.9
22.5°	297.6	309.1	335.4	385.8	492.2	963.8	1904.8	3186.9	4735.7	5456.8	5953.7
25°	261.0	275.9	298.8	342.3	409.8	668.5	1648.4	3307.1	5295.4	6152.8	6619.9
27.5°	232.4	246.1	269.0	309.1	359.4	510.5	1349.6	3410.1	5886.1	6853.4	7235.7
30°	203.8	217.5	240.4	272.4	318.2	413.2	1028.0	3470.8	6459.6	7378.8	7673.0
32.5°	179.7	191.2	212.9	241.5	279.3	350.3	810.5	3407.8	6898.0	7856.2	8053.1
35°	155.7	169.4	187.7	214.1	247.3	298.8	674.2	3190.3	7274.7	8347.3	8418.2
37.5°	130.5	146.5	166.0	190.0	216.4	274.7	541.4	2949.9	7677.6	8959.7	8842.9
40°	109.9	124.8	143.1	169.4	193.5	251.8	416.7	2693.5	8112.6	9534.3	9306.5
42.5°	89.3	105.3	127.1	151.1	191.2	219.8	322.8	2427.9	8502.9	10034.6	9725.5
45°	71.0	84.7	107.6	138.5	190.0	188.9	249.5	2165.8	8797.1	10391.7	10038.0
47.5°	56.1	67.5	90.4	135.1	175.1	160.3	200.3	2003.2	9106.2	10713.4	10277.2
50°	44.6	56.1	77.8	140.8	153.4	137.4	168.3	2029.6	9405.0	10877.1	10375.7
52.5°	37.8	49.2	67.5	111.0	117.9	120.2	147.7	2150.9	9790.7	11052.2	10571.4
55°	33.2	43.5	57.2	77.8	91.6	107.6	135.1	2239.1	10307.0	11427.7	11003.0
57.5°	26.3	37.8	51.5	66.4	75.6	93.9	124.8	2245.9	10774.0	11909.6	11576.5
59°	24.0	34.3	48.1	63.0	67.5	84.7	117.9	2187.5	10791.2	11981.7	11839.8
60°	21.7	33.2	45.8	58.4	64.1	80.1	112.2	2120.0	10635.5	11867.2	11948.5
62.5°	18.3	28.6	40.1	46.9	54.9	66.4	97.3	1875.0	9881.2	11348.7	11747.1
65°	16.0	25.2	34.3	38.9	45.8	57.2	85.9	1500.7	9047.8	10645.8	11170.1
67.5°	14.9	22.9	29.8	33.2	40.1	52.7	76.7	1060.0	7968.4	9754.1	10303.6
70°	13.7	21.7	26.3	30.9	35.5	44.6	65.2	618.1	6138.0	8190.4	8770.8
72.5°	13.7	20.6	22.9	26.3	30.9	40.1	60.7	334.3	4196.5	6247.8	6997.6
75°	13.7	19.5	20.6	22.9	27.5	36.6	53.8	175.1	2713.0	4340.8	5357.3
77.5°	13.7	18.3	20.6	21.7	26.3	32.1	46.9	109.9	1807.5	3040.4	3620.7
80°	14.9	18.3	19.5	21.7	25.2	29.8	38.9	73.3	1062.3	1829.3	2203.6
82.5°	16.0	18.3	20.6	22.9	26.3	28.6	34.3	45.8	489.9	1210.0	1369.1
85°	17.2	19.5	21.7	24.0	27.5	28.6	32.1	33.2	80.1	546.0	738.3
87.5°	18.3	20.6	22.9	25.2	29.8	29.8	29.8	29.8	27.5	58.4	148.8
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: P458904

CATALOG NUMBER: GALN-SA4B-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2	4977.2
2.5°	5616.0	5745.3	5835.7	5858.6	5793.4	5763.6	5681.2	5553.0	5475.2	5471.7
5°	5918.2	6221.5	6432.1	6467.6	6341.7	6128.8	5875.8	5549.6	5358.4	5301.2
7.5°	5866.7	6397.8	6736.6	6785.9	6574.1	6167.7	5677.8	5152.4	4944.0	4855.9
10°	5654.9	6302.8	6787.0	6864.8	6582.1	6009.7	5387.0	4800.9	4542.2	4474.7
12.5°	5474.0	6128.8	6559.2	6666.8	6452.8	5881.5	5213.0	4575.4	4298.4	4235.4
15°	5395.0	5922.7	6186.0	6241.0	6205.5	5801.4	5194.7	4541.1	4224.0	4155.3
17.5°	5474.0	5747.6	5780.8	5836.9	5915.9	5793.4	5371.0	4727.7	4385.4	4300.7
20°	5681.2	5595.4	5458.0	5482.0	5662.9	5826.6	5684.6	5140.9	4724.2	4633.8
22.5°	6033.8	5557.6	5246.2	5225.6	5454.6	5937.6	6144.8	5700.7	5217.6	5128.3
25°	6466.5	5652.6	5168.4	5123.7	5373.3	6100.2	6645.1	6386.4	5858.6	5722.4
27.5°	6938.1	5849.5	5168.4	5124.9	5366.4	6244.4	7073.2	6993.1	6522.6	6373.8
30°	7196.8	6012.0	5242.8	5193.6	5451.1	6328.0	7302.1	7532.2	7021.7	6837.4
32.5°	7428.0	6237.5	5388.2	5295.4	5628.6	6451.6	7507.0	7990.1	7418.9	7295.3
35°	7641.0	6479.1	5588.5	5480.9	5862.1	6621.0	7733.7	8470.9	7971.8	7785.2
37.5°	7875.6	6759.5	5901.0	5809.4	6252.4	6950.7	8002.7	9102.8	8515.5	8280.9
40°	8130.9	7084.6	6415.0	6376.1	6872.9	7323.9	8342.7	9777.0	9136.0	8869.2
42.5°	8390.8	7459.0	7044.6	7108.7	7575.7	7847.0	8691.8	10295.6	9644.2	9350.0
45°	8626.6	7937.4	7863.0	8180.1	8395.3	8357.6	8950.5	10660.7	10087.2	9805.6
47.5°	8924.2	8634.6	8853.2	9342.0	9347.7	8912.7	9146.3	10959.5	10468.4	10186.8
50°	9257.3	9457.6	10131.9	10629.8	10495.9	9458.8	9375.2	11313.2	10862.2	10636.7
52.5°	9643.1	10379.1	11313.2	11866.1	11553.6	10054.0	9756.4	11695.5	11487.2	11270.9
55°	10091.8	11007.6	12491.1	12931.8	12617.0	10793.5	10335.6	12214.1	12193.5	12045.8
57.5°	10598.9	11671.5	13173.4	13769.8	13489.3	11661.2	11144.9	12702.9	12625.0	12542.6
59°	10999.6	12012.6	13474.4	14092.6	13923.2	12269.0	11688.7	13007.4	12724.6	12601.0
60°	11242.2	12243.9	13585.5	14136.1	14097.1	12630.8	12033.2	13156.2	12723.5	12551.8
62.5°	11962.3	12647.9	13543.1	13942.6	14094.9	13324.5	13044.0	13319.9	12487.7	12235.8
65°	12218.7	12514.0	12841.4	12792.2	12922.7	13289.0	13689.6	13140.2	11984.0	11625.7
67.5°	11719.6	11045.3	11161.0	10832.4	10768.3	11814.6	13427.5	12261.0	10998.4	10560.0
70°	9878.9	8461.7	8403.3	8554.4	8140.1	9565.2	12057.3	10568.0	9371.8	8875.0
72.5°	7776.0	5980.0	5487.8	6044.1	6031.5	7297.5	10016.2	7499.0	6331.4	6289.1
75°	6115.1	4163.3	3653.9	3744.4	3918.4	5282.9	7977.5	4762.0	3898.9	3553.2
77.5°	4104.9	2949.9	2751.9	2640.9	2828.6	3391.8	5047.0	2582.5	2186.4	2070.8
80°	2366.1	2142.9	2433.7	2209.3	2310.0	2137.2	2510.4	1184.8	983.3	1064.6
82.5°	1539.6	1220.3	1300.4	966.1	1321.0	1332.4	805.9	350.3	296.5	314.8
85°	962.7	572.4	321.7	228.9	455.6	837.9	251.8	21.7	25.2	21.7
87.5°	249.5	95.0	40.1	59.5	73.3	65.2	58.4	3.4	1.1	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)