

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: P458875

Luminaire Tested: **GALN-SA4A-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458875  
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-SA4A-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 12103 lumens  
Efficiency: N/A  
Efficacy: 100.0 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): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

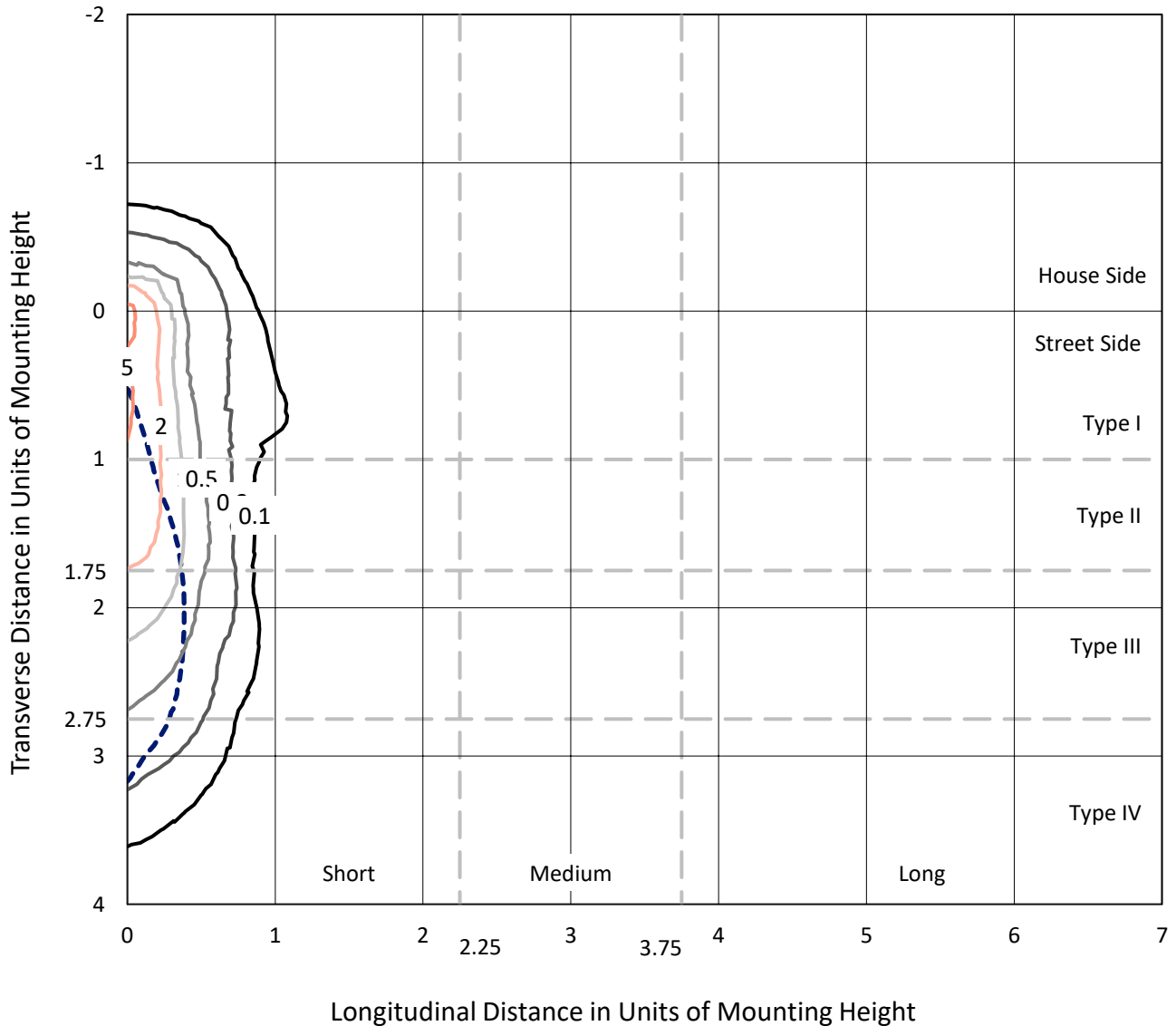




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### Iso-Footcandle Lines of Horizontal Illumination

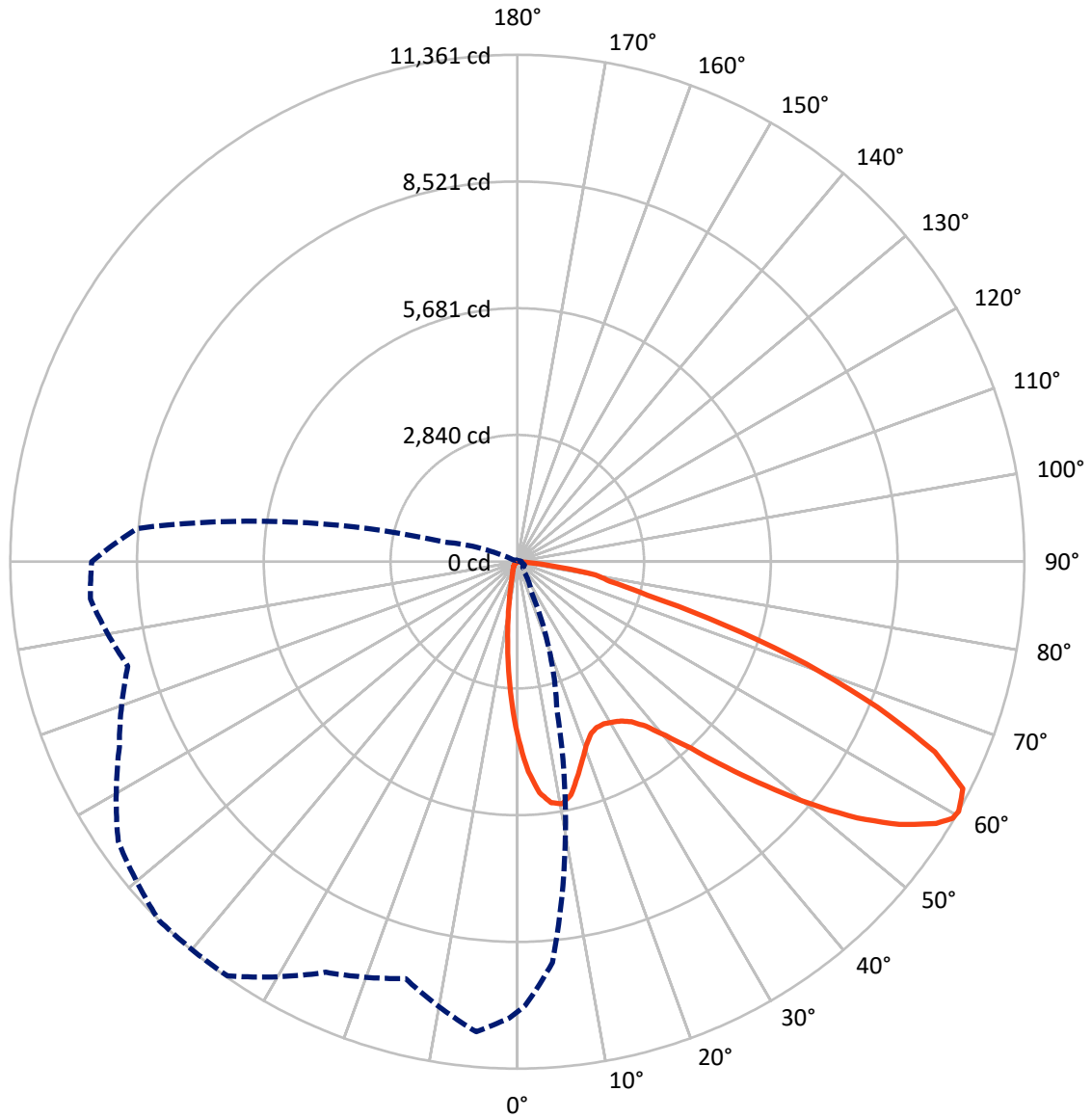
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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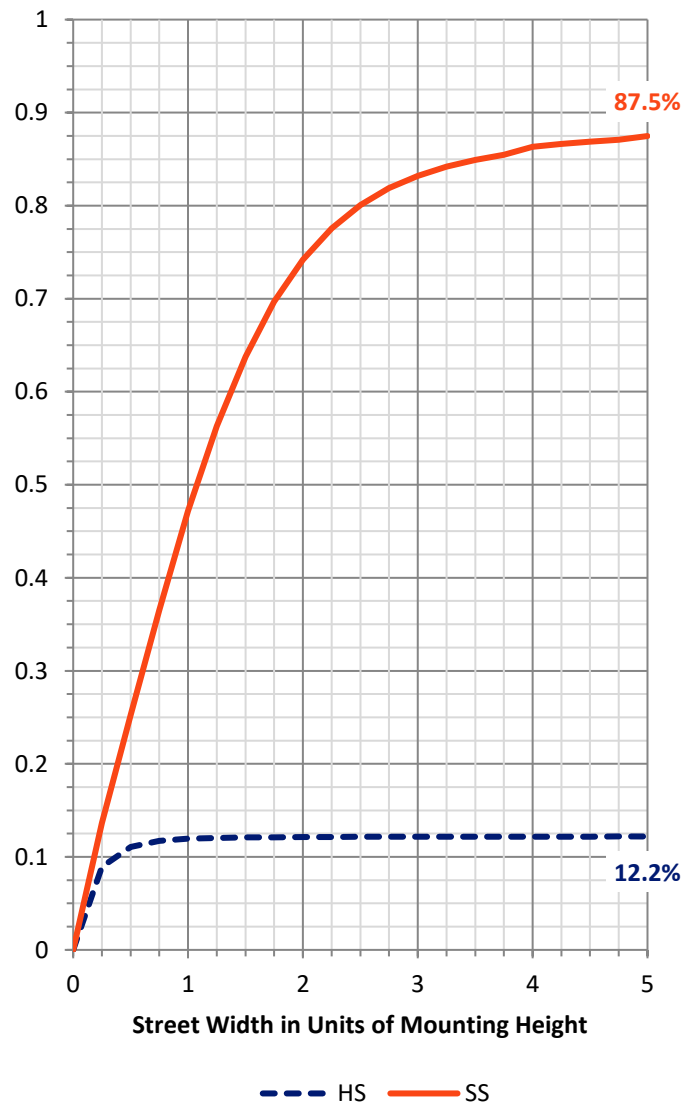
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1492.8	0.0	1492.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	10610.2	0.0	10610.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	12103.0	0.0	12103.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.5	2.5
10°-20°	590.9	4.9
20°-30°	866.4	7.2
30°-40°	1288.5	10.6
40°-50°	1875.1	15.5
50°-60°	2704.1	22.3
60°-70°	2974.2	24.6
70°-80°	1332.2	11.0
80°-90°	174.1	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°	12103.0	100.0
0°-180°	12103.0	100.0



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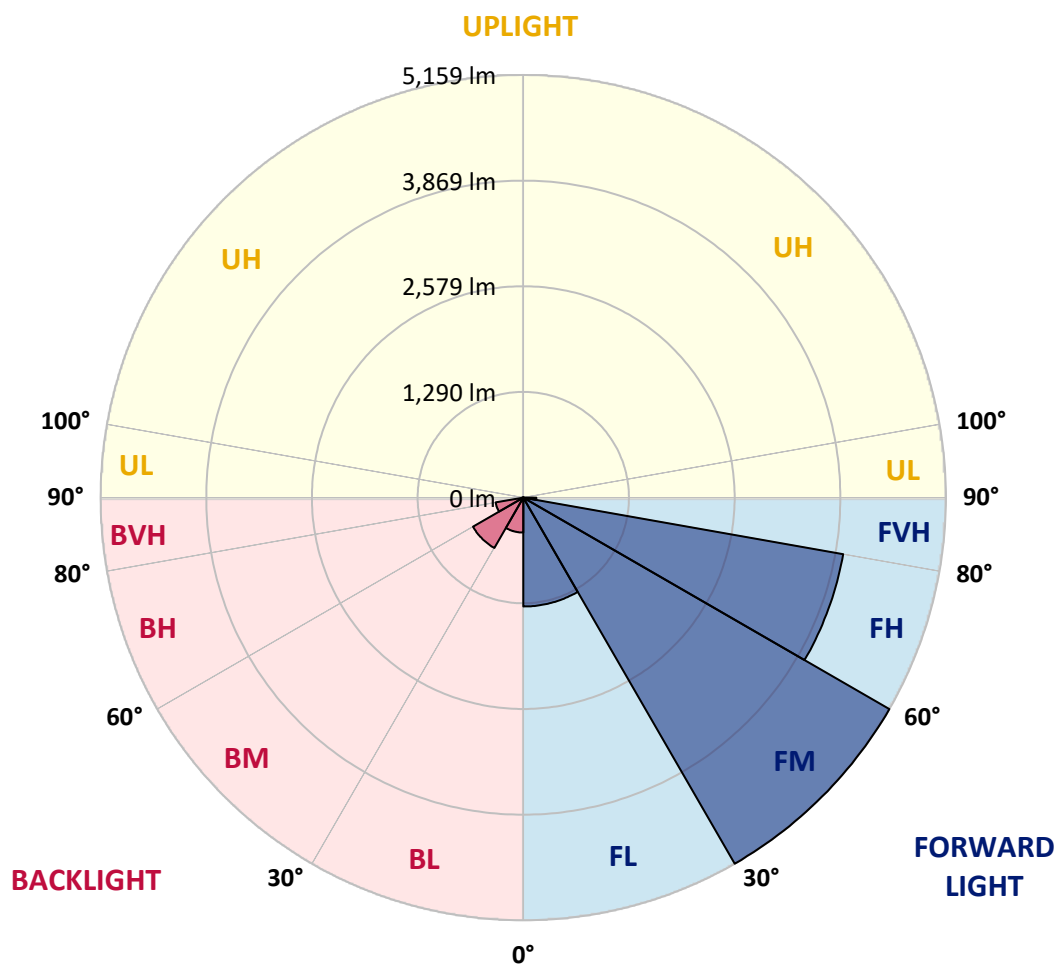
CATALOG NUMBER: GALN-SA4A-735-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1328.3	11.0			
FM	(30°-60°)	5158.7	42.6			
FH	(60°-80°)	3964.1	32.8			G2/5000
FVH	(80°-90°)	159.2	1.3			G2/225
BL	(0°-30°)	426.5	3.5	B1/500		
BM	(30°-60°)	709.0	5.9	B1/1000		
BH	(60°-80°)	342.3	2.8	B1/500		G1/500
BVH	(80°-90°)	14.9	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°	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2
2.5°	4397.7	4378.3	4334.2	4199.9	4083.0	3930.3	3775.7	3654.3	3579.8	3442.7	3380.1
5°	4260.6	4269.8	4141.9	3865.9	3558.6	3348.8	3119.8	2937.6	2737.0	2610.1	2476.7
7.5°	3902.7	3884.3	3745.4	3360.8	2987.3	2683.7	2393.9	2158.3	2010.2	1891.5	1792.2
10°	3596.3	3582.5	3405.0	2910.0	2508.9	2281.6	2085.7	1879.6	1720.4	1546.5	1407.6
12.5°	3404.0	3372.8	3168.5	2651.5	2324.9	2113.3	1899.8	1685.5	1465.6	1289.9	1121.5
15°	3339.6	3294.6	3067.3	2562.2	2207.1	1938.5	1670.7	1424.2	1171.2	977.1	850.1
17.5°	3456.5	3382.0	3140.0	2546.6	2066.3	1710.3	1380.9	1059.9	796.7	648.6	570.4
20°	3724.2	3638.6	3324.0	2531.0	1909.9	1454.5	1049.7	748.9	551.1	470.1	426.9
22.5°	4121.7	4003.9	3596.3	2555.8	1765.5	1205.2	758.1	529.0	437.9	387.3	357.0
25°	4599.1	4500.7	3941.3	2644.1	1651.4	1009.3	586.0	432.4	368.9	337.6	314.6
27.5°	5122.6	4965.3	4387.5	2749.9	1547.5	857.5	514.3	386.4	328.4	299.9	288.0
30°	5495.2	5372.9	4761.1	2823.5	1417.7	743.4	470.1	380.9	329.4	295.3	273.2
32.5°	5863.2	5706.8	5073.9	2857.6	1323.0	664.2	406.6	332.1	288.9	271.4	249.3
35°	6257.0	6093.2	5385.8	2839.2	1252.1	611.8	368.9	296.2	247.5	218.0	196.0
37.5°	6655.4	6482.4	5695.8	2772.9	1208.0	590.6	339.5	281.5	233.7	203.3	179.4
40°	7128.3	6897.3	5986.5	2718.6	1162.0	579.6	320.2	272.3	223.6	191.4	167.4
42.5°	7514.7	7294.8	6261.6	2690.1	1130.7	553.8	320.2	265.0	217.1	181.2	156.4
45°	7880.8	7652.7	6558.8	2713.1	1117.8	521.6	323.8	264.0	212.5	173.9	149.0
47.5°	8187.2	7989.4	6864.2	2799.6	1101.3	486.7	304.5	276.9	209.8	167.4	141.7
50°	8548.8	8357.4	7268.1	2974.4	1071.8	451.7	280.6	298.1	208.8	161.9	135.2
52.5°	9058.4	8851.4	7825.6	3173.1	1024.9	398.4	258.5	295.3	205.2	152.7	128.8
55°	9681.3	9513.8	8471.5	3411.4	960.5	338.6	223.6	262.2	194.1	137.1	117.8
57.5°	10080.6	9938.0	8955.4	3514.4	862.1	276.9	196.9	219.9	177.6	122.4	104.9
59°	10127.5	9998.7	9056.6	3480.4	797.7	253.0	184.0	188.6	173.0	114.1	97.5
60°	10087.9	9954.5	9016.1	3414.2	737.9	236.4	173.0	167.4	173.9	109.5	92.0
62.5°	9834.0	9605.9	8623.3	3078.4	644.9	217.1	153.6	137.1	153.6	98.4	81.9
65°	9343.6	9001.4	7845.9	2605.5	608.1	206.1	130.6	115.0	116.8	86.5	70.8
67.5°	8487.1	8055.6	6810.9	2116.9	592.5	207.0	110.4	103.0	90.2	73.6	62.6
70°	7132.9	6702.3	5464.9	1741.6	585.1	207.0	93.8	88.3	75.4	61.6	54.3
72.5°	5054.5	4590.9	3686.5	1368.1	527.2	206.1	80.0	80.0	61.6	51.5	44.2
75°	2855.7	2859.4	2317.5	967.9	437.9	170.2	64.4	63.5	45.1	39.6	33.1
77.5°	1664.3	1634.9	1562.2	415.8	203.3	77.3	45.1	38.6	31.3	28.5	23.9
80°	855.6	703.8	685.4	150.9	72.7	48.8	31.3	22.1	20.2	18.4	16.6
82.5°	253.0	253.9	226.3	60.7	40.5	32.2	15.6	12.0	11.0	10.1	10.1
85°	17.5	11.0	12.9	18.4	24.8	12.9	0.9	2.8	2.8	3.7	4.6
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°	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2
2.5°	3311.1	3351.6	3276.2	3278.0	3215.4	3235.7	3162.1	3186.0	3142.8	3175.9	3273.4
5°	2491.4	2500.6	2439.9	2420.6	2429.8	2467.5	2482.2	2415.0	2443.6	2387.4	2383.8
7.5°	1755.4	1766.4	1731.5	1726.9	1793.1	1777.5	1806.0	1737.0	1671.7	1700.2	1647.7
10°	1363.5	1317.5	1245.7	1225.5	1212.6	1220.9	1220.9	1158.3	1149.1	1124.3	1162.0
12.5°	1076.4	1020.3	952.2	860.2	837.2	835.4	801.3	746.1	728.6	707.5	738.8
15°	782.0	759.0	702.0	650.4	598.0	587.9	532.7	487.6	427.8	419.5	416.8
17.5°	550.2	516.1	515.2	485.8	455.4	435.2	383.6	332.1	309.1	306.4	306.4
20°	412.2	400.2	380.9	377.2	368.0	345.0	299.0	271.4	260.4	261.3	265.0
22.5°	346.8	338.6	321.1	312.8	309.1	288.9	254.8	236.4	230.9	230.9	231.8
25°	310.0	302.7	283.4	270.5	265.9	251.2	224.5	210.7	206.1	206.1	206.1
27.5°	282.4	273.2	253.0	242.0	233.7	217.1	200.6	186.8	182.2	182.2	183.1
30°	263.1	253.0	234.6	219.9	207.0	192.3	178.5	166.5	161.0	160.1	161.0
32.5°	237.4	228.2	209.8	200.6	185.8	168.4	157.3	146.3	140.8	141.7	140.8
35°	184.9	182.2	169.3	172.0	163.8	149.0	138.9	127.0	120.5	119.6	121.4
37.5°	168.4	157.3	142.6	143.5	140.8	135.2	118.7	105.8	101.2	101.2	102.1
40°	155.5	144.4	127.9	119.6	120.5	120.5	103.0	89.2	84.6	83.7	85.6
42.5°	144.4	133.4	115.0	101.2	97.5	102.1	87.4	73.6	69.0	67.2	69.0
45°	137.1	125.1	104.0	88.3	77.3	82.8	71.8	60.7	55.2	55.2	54.3
47.5°	129.7	118.7	95.7	76.4	64.4	61.6	58.9	48.8	43.2	42.3	43.2
50°	123.3	112.2	86.5	66.2	54.3	47.8	47.8	38.6	35.0	33.1	34.0
52.5°	116.8	104.9	78.2	58.9	46.9	38.6	34.0	31.3	28.5	27.6	28.5
55°	107.6	95.7	69.9	50.6	40.5	32.2	26.7	25.8	23.9	22.1	23.9
57.5°	96.6	85.6	61.6	43.2	32.2	24.8	22.1	21.2	19.3	18.4	18.4
59°	90.2	80.0	57.0	37.7	28.5	22.1	20.2	19.3	17.5	15.6	16.6
60°	86.5	78.2	54.3	35.0	25.8	20.2	18.4	17.5	15.6	14.7	15.6
62.5°	76.4	69.9	47.8	28.5	20.2	14.7	12.9	13.8	12.9	12.0	12.9
65°	67.2	61.6	40.5	22.1	15.6	10.1	9.2	12.0	11.0	10.1	11.0
67.5°	59.8	53.4	34.0	16.6	11.0	5.5	6.4	10.1	10.1	9.2	10.1
70°	51.5	46.0	27.6	12.0	5.5	2.8	4.6	7.4	9.2	8.3	9.2
72.5°	42.3	35.9	21.2	8.3	2.8	0.0	2.8	6.4	9.2	8.3	9.2
75°	33.1	26.7	15.6	4.6	0.0	0.0	0.9	5.5	9.2	8.3	9.2
77.5°	23.9	19.3	9.2	0.9	0.0	0.0	0.9	5.5	9.2	8.3	9.2
80°	15.6	13.8	3.7	0.0	0.0	0.0	0.9	5.5	9.2	9.2	10.1
82.5°	10.1	7.4	0.0	0.0	0.0	0.0	1.8	7.4	10.1	11.0	11.0
85°	4.6	0.0	0.0	0.0	0.0	0.0	3.7	9.2	12.0	12.0	12.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	6.4	11.0	13.8	13.8	13.8
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°	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2
2.5°	3290.0	3347.9	3429.8	3555.8	3658.0	3819.0	3942.3	4110.6	4280.8	4332.3	4412.4
5°	2421.5	2496.0	2681.8	2851.1	2957.8	3298.2	3513.5	3853.0	4157.5	4303.8	4463.0
7.5°	1681.8	1770.1	1911.8	2148.2	2372.7	2649.6	2997.4	3385.6	3831.9	4040.7	4265.2
10°	1180.4	1290.8	1490.4	1684.5	1967.0	2230.1	2573.3	3002.0	3494.2	3740.8	4022.3
12.5°	745.2	843.7	1107.7	1325.7	1678.1	1983.5	2300.0	2688.3	3258.7	3511.7	3807.0
15°	426.0	508.8	632.0	911.7	1302.7	1706.6	2101.3	2552.1	3138.2	3450.0	3769.3
17.5°	317.4	339.5	394.7	552.9	909.0	1380.9	1918.2	2510.7	3220.0	3586.2	3950.5
20°	266.8	281.5	307.3	369.8	579.6	1063.5	1739.7	2518.1	3485.0	3945.0	4290.9
22.5°	239.2	248.4	269.6	310.0	395.6	774.7	1530.9	2561.3	3806.1	4385.7	4785.0
25°	209.8	221.7	240.1	275.1	329.4	537.3	1324.8	2657.9	4256.0	4945.1	5320.4
27.5°	186.8	197.8	216.2	248.4	288.9	410.3	1084.7	2740.7	4730.7	5508.1	5815.4
30°	163.8	174.8	193.2	219.0	255.8	332.1	826.2	2789.5	5191.6	5930.4	6166.8
32.5°	144.4	153.6	171.1	194.1	224.5	281.5	651.4	2738.9	5544.0	6314.0	6472.3
35°	125.1	136.2	150.9	172.0	198.7	240.1	541.9	2564.1	5846.7	6708.7	6765.8
37.5°	104.9	117.8	133.4	152.7	173.9	220.8	435.2	2370.9	6170.5	7200.9	7107.1
40°	88.3	100.3	115.0	136.2	155.5	202.4	334.9	2164.8	6520.1	7662.8	7479.7
42.5°	71.8	84.6	102.1	121.4	153.6	176.6	259.4	1951.3	6833.9	8064.8	7816.4
45°	57.0	68.1	86.5	111.3	152.7	151.8	200.6	1740.7	7070.3	8351.9	8067.6
47.5°	45.1	54.3	72.7	108.6	140.8	128.8	161.0	1610.0	7318.7	8610.4	8259.9
50°	35.9	45.1	62.6	113.2	123.3	110.4	135.2	1631.2	7558.8	8742.0	8339.0
52.5°	30.4	39.6	54.3	89.2	94.8	96.6	118.7	1728.7	7868.9	8882.7	8496.3
55°	26.7	35.0	46.0	62.6	73.6	86.5	108.6	1799.5	8283.8	9184.5	8843.2
57.5°	21.2	30.4	41.4	53.4	60.7	75.4	100.3	1805.1	8659.2	9571.8	9304.1
59°	19.3	27.6	38.6	50.6	54.3	68.1	94.8	1758.1	8673.0	9629.8	9515.7
60°	17.5	26.7	36.8	46.9	51.5	64.4	90.2	1703.9	8547.8	9537.8	9603.1
62.5°	14.7	23.0	32.2	37.7	44.2	53.4	78.2	1507.0	7941.5	9121.0	9441.2
65°	12.9	20.2	27.6	31.3	36.8	46.0	69.0	1206.1	7271.8	8556.1	8977.5
67.5°	12.0	18.4	23.9	26.7	32.2	42.3	61.6	851.9	6404.2	7839.4	8281.0
70°	11.0	17.5	21.2	24.8	28.5	35.9	52.4	496.8	4933.1	6582.7	7049.1
72.5°	11.0	16.6	18.4	21.2	24.8	32.2	48.8	268.6	3372.8	5021.4	5624.0
75°	11.0	15.6	16.6	18.4	22.1	29.4	43.2	140.8	2180.4	3488.7	4305.7
77.5°	11.0	14.7	16.6	17.5	21.2	25.8	37.7	88.3	1452.7	2443.6	2910.0
80°	12.0	14.7	15.6	17.5	20.2	23.9	31.3	58.9	853.8	1470.2	1771.0
82.5°	12.9	14.7	16.6	18.4	21.2	23.0	27.6	36.8	393.8	972.5	1100.3
85°	13.8	15.6	17.5	19.3	22.1	23.0	25.8	26.7	64.4	438.8	593.4
87.5°	14.7	16.6	18.4	20.2	23.9	23.9	23.9	23.9	22.1	46.9	119.6
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: P458875

CATALOG NUMBER: GALN-SA4A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2	4000.2
2.5°	4513.6	4617.5	4690.2	4708.6	4656.2	4632.3	4566.0	4463.0	4400.4	4397.7
5°	4756.5	5000.3	5169.6	5198.1	5096.9	4925.7	4722.4	4460.2	4306.6	4260.6
7.5°	4715.1	5142.0	5414.3	5453.8	5283.6	4957.0	4563.3	4141.0	3973.5	3902.7
10°	4544.9	5065.6	5454.8	5517.3	5290.1	4830.1	4329.6	3858.5	3650.6	3596.3
12.5°	4399.5	4925.7	5271.7	5358.2	5186.1	4727.0	4189.7	3677.3	3454.6	3404.0
15°	4336.0	4760.1	4971.7	5015.9	4987.4	4662.6	4175.0	3649.7	3394.8	3339.6
17.5°	4399.5	4619.4	4646.1	4691.1	4754.6	4656.2	4316.7	3799.7	3524.6	3456.5
20°	4566.0	4497.0	4386.6	4405.9	4551.3	4682.9	4568.8	4131.8	3796.9	3724.2
22.5°	4849.4	4466.7	4216.4	4199.9	4383.9	4772.1	4938.6	4581.7	4193.4	4121.7
25°	5197.2	4543.0	4153.9	4118.0	4318.5	4902.7	5340.7	5132.7	4708.6	4599.1
27.5°	5576.2	4701.3	4153.9	4118.9	4313.0	5018.7	5684.8	5620.4	5242.2	5122.6
30°	5784.1	4831.9	4213.7	4174.1	4381.1	5085.8	5868.8	6053.7	5643.4	5495.2
32.5°	5970.0	5013.1	4330.5	4256.0	4523.7	5185.2	6033.4	6421.7	5962.6	5863.2
35°	6141.1	5207.3	4491.5	4405.0	4711.4	5321.4	6215.6	6808.1	6407.0	6257.0
37.5°	6329.7	5432.7	4742.7	4669.1	5025.1	5586.3	6431.8	7315.9	6844.0	6655.4
40°	6534.8	5694.0	5155.8	5124.5	5523.8	5886.2	6705.1	7857.8	7342.6	7128.3
42.5°	6743.7	5994.8	5661.8	5713.3	6088.6	6306.7	6985.7	8274.6	7751.1	7514.7
45°	6933.2	6379.4	6319.6	6574.4	6747.4	6717.0	7193.6	8568.1	8107.2	7880.8
47.5°	7172.4	6939.7	7115.4	7508.2	7512.8	7163.2	7350.9	8808.2	8413.5	8187.2
50°	7440.1	7601.1	8143.0	8543.2	8435.6	7602.1	7534.9	9092.5	8730.0	8548.8
52.5°	7750.2	8341.8	9092.5	9536.8	9285.7	8080.5	7841.3	9399.8	9232.3	9058.4
55°	8110.8	8846.8	10039.2	10393.4	10140.4	8674.8	8306.8	9816.5	9800.0	9681.3
57.5°	8518.4	9380.4	10587.5	11066.8	10841.4	9372.2	8957.2	10209.4	10146.8	10080.6
59°	8840.4	9654.6	10829.5	11326.3	11190.1	9860.7	9394.2	10454.1	10226.9	10127.5
60°	9035.4	9840.5	10918.7	11361.2	11330.0	10151.4	9671.2	10573.7	10225.9	10087.9
62.5°	9614.1	10165.2	10884.7	11205.8	11328.1	10708.9	10483.5	10705.3	10036.4	9834.0
65°	9820.2	10057.6	10320.7	10281.1	10386.0	10680.4	11002.4	10560.8	9631.6	9343.6
67.5°	9419.1	8877.2	8970.1	8706.1	8654.6	9495.4	10791.7	9854.3	8839.5	8487.1
70°	7939.7	6800.7	6753.8	6875.3	6542.2	7687.6	9690.5	8493.6	7532.1	7132.9
72.5°	6249.6	4806.1	4410.5	4857.7	4847.5	5865.1	8050.1	6027.0	5088.6	5054.5
75°	4914.7	3346.1	2936.7	3009.4	3149.2	4245.9	6411.6	3827.3	3133.6	2855.7
77.5°	3299.2	2370.9	2211.7	2122.5	2273.4	2726.0	4056.3	2075.5	1757.2	1664.3
80°	1901.7	1722.3	1955.9	1775.6	1856.6	1717.7	2017.6	952.2	790.3	855.6
82.5°	1237.4	980.7	1045.1	776.5	1061.7	1070.9	647.7	281.5	238.3	253.0
85°	773.7	460.0	258.5	184.0	366.2	673.4	202.4	17.5	20.2	17.5
87.5°	200.6	76.4	32.2	47.8	58.9	52.4	46.9	2.8	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)