

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: P459049

Luminaire Tested: **GALN-SA5C-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459049  
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-SA5C-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 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: 23554 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

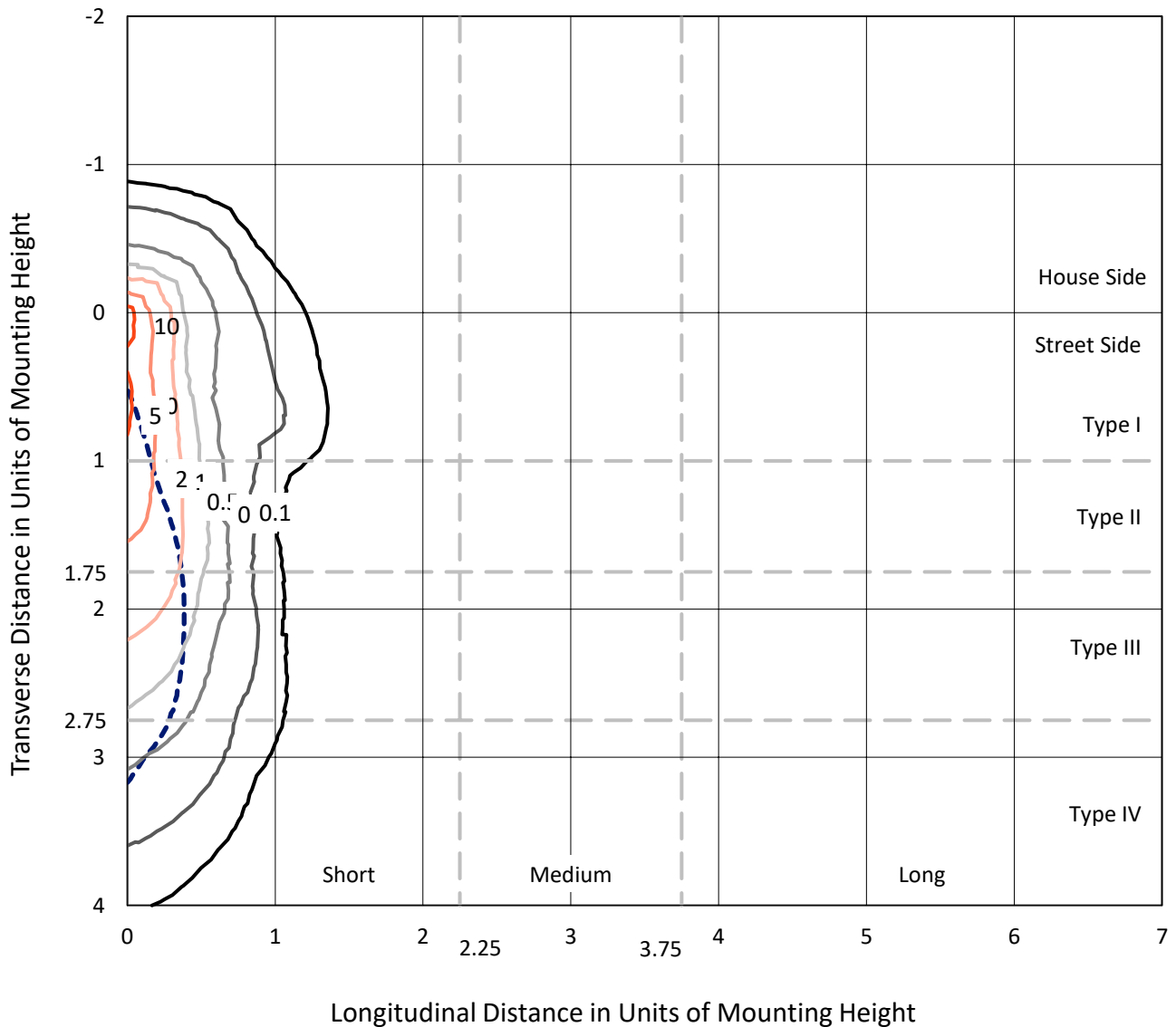
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

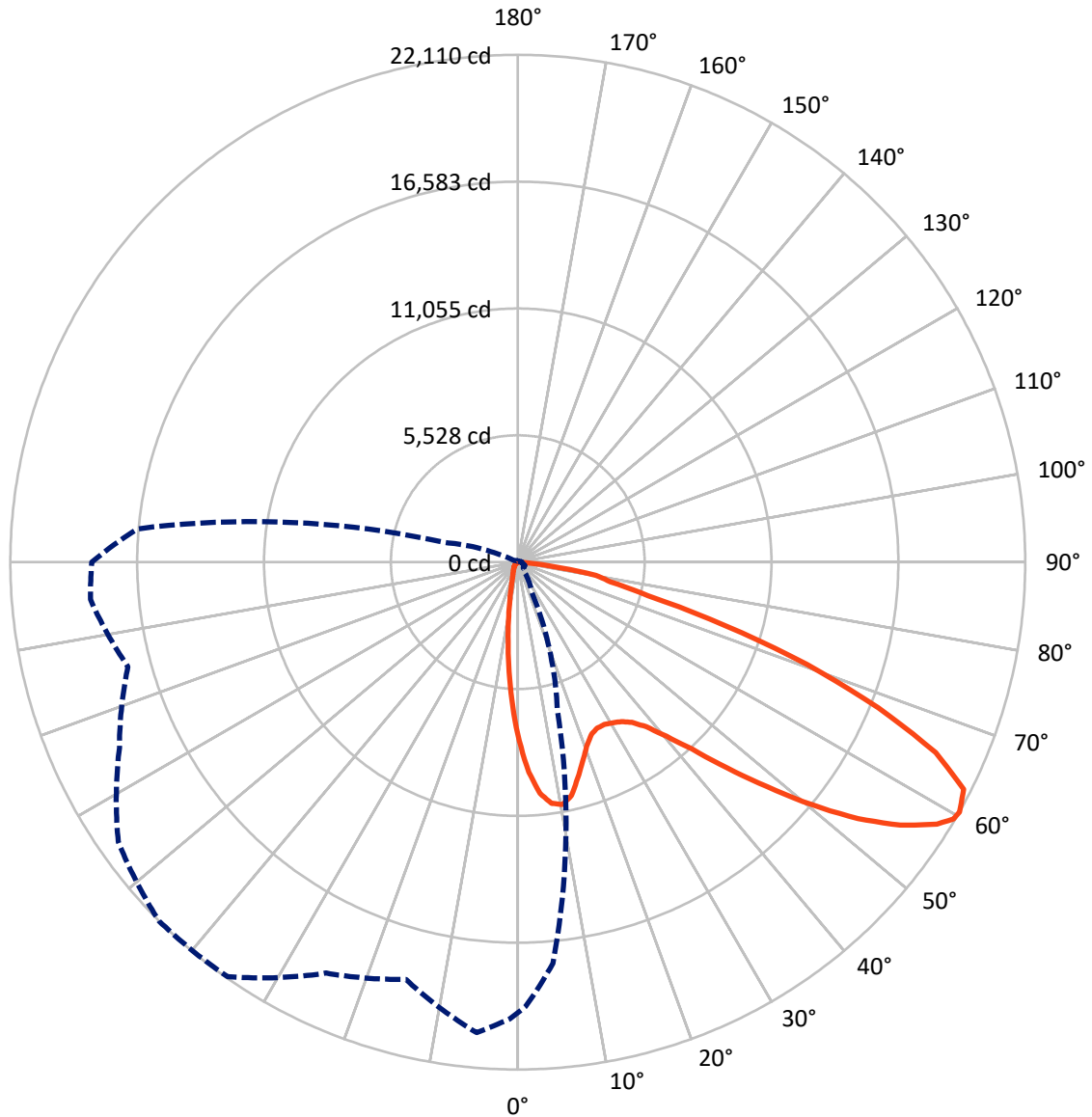
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	2905.2	0.0	2905.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	20648.9	0.0	20648.9
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	23554.0	0.0	23554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.0	2.5
10°-20°	1149.9	4.9
20°-30°	1686.1	7.2
30°-40°	2507.5	10.6
40°-50°	3649.3	15.5
50°-60°	5262.5	22.3
60°-70°	5788.2	24.6
70°-80°	2592.6	11.0
80°-90°	338.8	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°	23554.0	100.0
0°-180°	23554.0	100.0

**Coefficient of Utilization**



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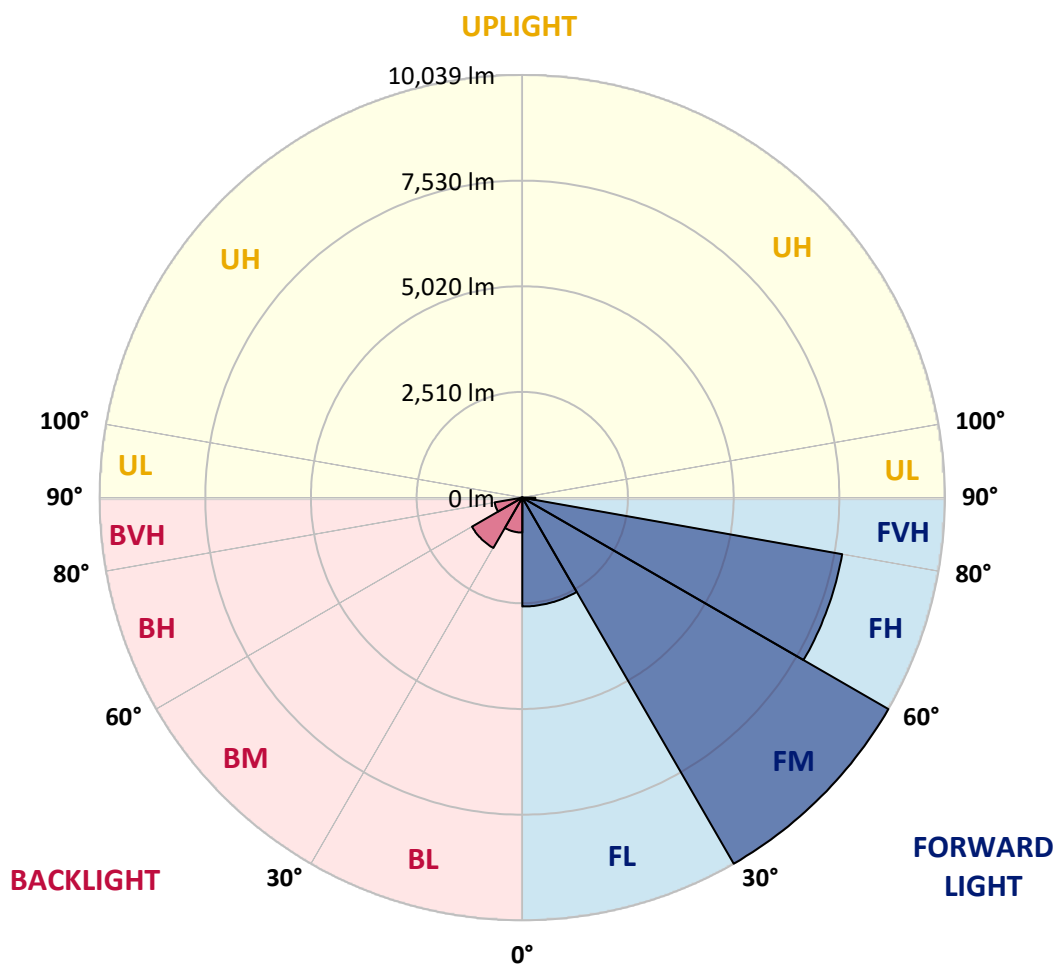
CATALOG NUMBER: GALN-SA5C-735-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2585.0	11.0			
FM	(30°-60°)	10039.4	42.6			
FH	(60°-80°)	7714.6	32.8			G4/12000
FVH	(80°-90°)	309.8	1.3			G3/500
BL	(0°-30°)	830.1	3.5	B2/1000		
BM	(30°-60°)	1379.9	5.9	B2/2500		
BH	(60°-80°)	666.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	29.0	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9
2.5°	8558.4	8520.8	8434.9	8173.5	7946.1	7648.9	7348.1	7111.7	6966.7	6699.9	6578.2
5°	8291.6	8309.5	8060.7	7523.5	6925.5	6517.3	6071.5	5716.9	5326.6	5079.5	4819.9
7.5°	7595.1	7559.3	7289.0	6540.6	5813.6	5222.8	4658.8	4200.4	3912.2	3681.2	3487.8
10°	6998.9	6972.1	6626.5	5663.2	4882.6	4440.3	4059.0	3657.9	3348.2	3009.8	2739.4
12.5°	6624.7	6563.8	6166.4	5160.1	4524.5	4112.7	3697.3	3280.1	2852.2	2510.2	2182.6
15°	6499.4	6411.6	5969.4	4986.4	4295.3	3772.5	3251.5	2771.6	2279.3	1901.5	1654.4
17.5°	6726.8	6581.7	6110.9	4956.0	4021.4	3328.5	2687.5	2062.6	1550.5	1262.3	1110.1
20°	7247.8	7081.3	6468.9	4925.6	3717.0	2830.7	2042.9	1457.4	1072.5	914.9	830.8
22.5°	8021.3	7792.1	6998.9	4973.9	3435.9	2345.5	1475.3	1029.5	852.3	753.8	694.7
25°	8950.5	8758.9	7670.3	5145.8	3213.9	1964.1	1140.5	841.5	718.0	657.1	612.3
27.5°	9969.3	9663.1	8538.7	5351.7	3011.6	1668.7	1000.9	752.0	639.2	583.7	560.4
30°	10694.4	10456.3	9265.6	5494.9	2759.1	1446.7	914.9	741.3	641.0	574.7	531.8
32.5°	11410.6	11106.2	9874.4	5561.2	2574.7	1292.7	791.4	646.4	562.2	528.2	485.2
35°	12176.9	11858.2	10481.4	5525.4	2436.8	1190.7	718.0	576.5	481.6	424.3	381.4
37.5°	12952.2	12615.6	11084.8	5396.5	2350.9	1149.5	660.7	547.9	454.8	395.7	349.1
40°	13872.5	13423.1	11650.5	5290.8	2261.4	1128.0	623.1	530.0	435.1	372.4	325.9
42.5°	14624.5	14196.6	12185.9	5235.3	2200.5	1077.9	623.1	515.7	422.5	352.7	304.4
45°	15337.1	14893.1	12764.2	5280.1	2175.4	1015.2	630.2	513.9	413.6	338.4	290.1
47.5°	15933.3	15548.4	13358.6	5448.4	2143.2	947.2	592.6	538.9	408.2	325.9	275.7
50°	16637.0	16264.6	14144.7	5788.6	2085.9	879.1	546.1	580.1	406.4	315.1	263.2
52.5°	17628.9	17226.0	15229.7	6175.3	1994.6	775.3	503.1	574.7	399.3	297.2	250.7
55°	18841.0	18515.2	16486.6	6639.0	1869.2	658.9	435.1	510.3	377.8	266.8	229.2
57.5°	19618.1	19340.6	17428.4	6839.6	1677.7	538.9	383.2	427.9	345.6	238.1	204.1
59°	19709.4	19458.8	17625.3	6773.3	1552.3	492.4	358.1	367.0	336.6	222.0	189.8
60°	19632.4	19372.8	17546.5	6644.4	1436.0	460.1	336.6	325.9	338.4	213.1	179.0
62.5°	19138.3	18694.2	16782.0	5990.9	1255.1	422.5	299.0	266.8	299.0	191.6	159.4
65°	18183.9	17517.9	15269.1	5070.6	1183.5	401.1	254.2	223.8	227.4	168.3	137.9
67.5°	16517.0	15677.3	13254.8	4119.9	1153.1	402.9	214.9	200.5	175.5	143.2	121.8
70°	13881.5	13043.5	10635.4	3389.3	1138.7	402.9	182.6	171.9	146.8	120.0	105.6
72.5°	9836.8	8934.4	7174.4	2662.4	1025.9	401.1	155.8	155.8	120.0	100.3	85.9
75°	5557.6	5564.8	4510.2	1883.6	852.3	331.2	125.3	123.5	87.7	77.0	64.5
77.5°	3238.9	3181.7	3040.2	809.3	395.7	150.4	87.7	75.2	60.9	55.5	46.6
80°	1665.1	1369.7	1333.9	293.6	141.4	94.9	60.9	43.0	39.4	35.8	32.2
82.5°	492.4	494.2	440.5	118.2	78.8	62.7	30.4	23.3	21.5	19.7	19.7
85°	34.0	21.5	25.1	35.8	48.3	25.1	1.8	5.4	5.4	7.2	9.0
87.5°	3.6	1.8	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°	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9
2.5°	6443.9	6522.7	6375.8	6379.4	6257.7	6297.1	6153.8	6200.4	6116.2	6180.7	6370.5
5°	4848.6	4866.5	4748.3	4710.7	4728.6	4802.0	4830.7	4700.0	4755.5	4646.3	4639.1
7.5°	3416.2	3437.7	3369.7	3360.7	3489.6	3459.2	3514.7	3380.4	3253.3	3308.8	3206.7
10°	2653.5	2563.9	2424.3	2384.9	2359.8	2375.9	2375.9	2254.2	2236.3	2187.9	2261.4
12.5°	2094.8	1985.6	1853.1	1674.1	1629.3	1625.7	1559.5	1452.1	1418.0	1376.9	1437.7
15°	1521.9	1477.1	1366.1	1265.9	1163.8	1144.1	1036.7	948.9	832.6	816.5	811.1
17.5°	1070.7	1004.4	1002.7	945.4	886.3	846.9	746.6	646.4	601.6	596.2	596.2
20°	802.1	778.9	741.3	734.1	716.2	671.4	581.9	528.2	506.7	508.5	515.7
22.5°	675.0	658.9	624.9	608.8	601.6	562.2	496.0	460.1	449.4	449.4	451.2
25°	603.4	589.1	551.5	526.4	517.4	488.8	436.9	410.0	401.1	401.1	401.1
27.5°	549.7	531.8	492.4	470.9	454.8	422.5	390.3	363.5	354.5	354.5	356.3
30°	512.1	492.4	456.6	427.9	402.9	374.2	347.3	324.1	313.3	311.5	313.3
32.5°	461.9	444.0	408.2	390.3	361.7	327.7	306.2	284.7	273.9	275.7	273.9
35°	359.9	354.5	329.4	334.8	318.7	290.1	270.4	247.1	234.6	232.8	236.3
37.5°	327.7	306.2	277.5	279.3	273.9	263.2	231.0	205.9	197.0	197.0	198.7
40°	302.6	281.1	248.9	232.8	234.6	234.6	200.5	173.7	164.7	162.9	166.5
42.5°	281.1	259.6	223.8	197.0	189.8	198.7	170.1	143.2	134.3	130.7	134.3
45°	266.8	243.5	202.3	171.9	150.4	161.1	139.7	118.2	107.4	107.4	105.6
47.5°	252.5	231.0	186.2	148.6	125.3	120.0	114.6	94.9	84.2	82.4	84.2
50°	239.9	218.4	168.3	128.9	105.6	93.1	93.1	75.2	68.0	64.5	66.2
52.5°	227.4	204.1	152.2	114.6	91.3	75.2	66.2	60.9	55.5	53.7	55.5
55°	209.5	186.2	136.1	98.5	78.8	62.7	51.9	50.1	46.6	43.0	46.6
57.5°	188.0	166.5	120.0	84.2	62.7	48.3	43.0	41.2	37.6	35.8	35.8
59°	175.5	155.8	111.0	73.4	55.5	43.0	39.4	37.6	34.0	30.4	32.2
60°	168.3	152.2	105.6	68.0	50.1	39.4	35.8	34.0	30.4	28.6	30.4
62.5°	148.6	136.1	93.1	55.5	39.4	28.6	25.1	26.9	25.1	23.3	25.1
65°	130.7	120.0	78.8	43.0	30.4	19.7	17.9	23.3	21.5	19.7	21.5
67.5°	116.4	103.8	66.2	32.2	21.5	10.7	12.5	19.7	19.7	17.9	19.7
70°	100.3	89.5	53.7	23.3	10.7	5.4	9.0	14.3	17.9	16.1	17.9
72.5°	82.4	69.8	41.2	16.1	5.4	0.0	5.4	12.5	17.9	16.1	17.9
75°	64.5	51.9	30.4	9.0	0.0	0.0	1.8	10.7	17.9	16.1	17.9
77.5°	46.6	37.6	17.9	1.8	0.0	0.0	1.8	10.7	17.9	16.1	17.9
80°	30.4	26.9	7.2	0.0	0.0	0.0	1.8	10.7	17.9	17.9	19.7
82.5°	19.7	14.3	0.0	0.0	0.0	0.0	3.6	14.3	19.7	21.5	21.5
85°	9.0	0.0	0.0	0.0	0.0	0.0	7.2	17.9	23.3	23.3	23.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	12.5	21.5	26.9	26.9	26.9
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°	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9
2.5°	6402.7	6515.5	6674.8	6920.1	7118.9	7432.2	7672.1	7999.8	8331.0	8431.3	8587.1
5°	4712.5	4857.5	5219.2	5548.6	5756.3	6418.8	6837.8	7498.5	8091.1	8375.8	8685.5
7.5°	3273.0	3444.9	3720.6	4180.7	4617.6	5156.5	5833.3	6588.9	7457.3	7863.7	8300.6
10°	2297.2	2512.0	2900.6	3278.3	3828.0	4340.1	5007.9	5842.3	6800.2	7280.0	7827.9
12.5°	1450.3	1641.9	2155.7	2580.1	3265.8	3860.2	4476.2	5231.7	6341.8	6834.2	7408.9
15°	829.0	990.1	1230.0	1774.3	2535.3	3321.3	4089.4	4966.7	6107.3	6714.2	7335.5
17.5°	617.7	660.7	768.1	1076.1	1769.0	2687.5	3733.1	4886.2	6266.6	6979.2	7688.2
20°	519.2	547.9	598.0	719.8	1128.0	2069.8	3385.8	4900.5	6782.3	7677.5	8350.7
22.5°	465.5	483.4	524.6	603.4	769.9	1507.6	2979.3	4984.6	7407.1	8535.1	9312.2
25°	408.2	431.5	467.3	535.3	641.0	1045.6	2578.3	5172.6	8282.7	9623.7	10354.2
27.5°	363.5	384.9	420.8	483.4	562.2	798.5	2111.0	5333.8	9206.6	10719.5	11317.5
30°	318.7	340.2	376.0	426.1	497.7	646.4	1607.8	5428.7	10103.6	11541.3	12001.5
32.5°	281.1	299.0	333.0	377.8	436.9	547.9	1267.6	5330.2	10789.3	12287.9	12595.9
35°	243.5	265.0	293.6	334.8	386.7	467.3	1054.6	4990.0	11378.4	13056.1	13167.1
37.5°	204.1	229.2	259.6	297.2	338.4	429.7	846.9	4614.0	12008.6	14014.0	13831.3
40°	171.9	195.2	223.8	265.0	302.6	393.9	651.7	4213.0	12689.0	14912.8	14556.5
42.5°	139.7	164.7	198.7	236.3	299.0	343.8	504.9	3797.6	13299.6	15695.2	15211.8
45°	111.0	132.5	168.3	216.6	297.2	295.4	390.3	3387.6	13759.7	16253.8	15700.6
47.5°	87.7	105.6	141.4	211.3	273.9	250.7	313.3	3133.3	14243.1	16756.9	16074.8
50°	69.8	87.7	121.8	220.2	239.9	214.9	263.2	3174.5	14710.4	17013.0	16228.8
52.5°	59.1	77.0	105.6	173.7	184.4	188.0	231.0	3364.3	15313.8	17286.9	16534.9
55°	51.9	68.0	89.5	121.8	143.2	168.3	211.3	3502.1	16121.3	17874.2	17209.9
57.5°	41.2	59.1	80.6	103.8	118.2	146.8	195.2	3512.9	16851.8	18628.0	18107.0
59°	37.6	53.7	75.2	98.5	105.6	132.5	184.4	3421.6	16878.7	18740.8	18518.8
60°	34.0	51.9	71.6	91.3	100.3	125.3	175.5	3315.9	16635.2	18561.7	18688.9
62.5°	28.6	44.8	62.7	73.4	85.9	103.8	152.2	2932.8	15455.3	17750.7	18373.7
65°	25.1	39.4	53.7	60.9	71.6	89.5	134.3	2347.3	14151.8	16651.3	17471.3
67.5°	23.3	35.8	46.6	51.9	62.7	82.4	120.0	1658.0	12463.4	15256.5	16116.0
70°	21.5	34.0	41.2	48.3	55.5	69.8	102.1	966.9	9600.5	12810.8	13718.5
72.5°	21.5	32.2	35.8	41.2	48.3	62.7	94.9	522.8	6563.8	9772.3	10945.1
75°	21.5	30.4	32.2	35.8	43.0	57.3	84.2	273.9	4243.4	6789.4	8379.4
77.5°	21.5	28.6	32.2	34.0	41.2	50.1	73.4	171.9	2827.1	4755.5	5663.2
80°	23.3	28.6	30.4	34.0	39.4	46.6	60.9	114.6	1661.5	2861.2	3446.6
82.5°	25.1	28.6	32.2	35.8	41.2	44.8	53.7	71.6	766.3	1892.5	2141.4
85°	26.9	30.4	34.0	37.6	43.0	44.8	50.1	51.9	125.3	854.1	1154.8
87.5°	28.6	32.2	35.8	39.4	46.6	46.6	46.6	46.6	43.0	91.3	232.8
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: P459049

CATALOG NUMBER: GALN-SA5C-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9	7784.9
2.5°	8784.0	8986.3	9127.8	9163.6	9061.5	9015.0	8886.1	8685.5	8563.8	8558.4
5°	9256.7	9731.2	10060.6	10116.1	9919.2	9586.1	9190.4	8680.2	8381.2	8291.6
7.5°	9176.1	10006.9	10536.9	10613.9	10282.6	9647.0	8880.7	8058.9	7733.0	7595.1
10°	8844.9	9858.3	10615.7	10737.4	10295.2	9399.9	8425.9	7509.2	7104.6	6998.9
12.5°	8562.0	9586.1	10259.4	10427.7	10092.8	9199.4	8153.8	7156.5	6723.2	6624.7
15°	8438.5	9263.9	9675.7	9761.6	9706.1	9074.1	8125.1	7102.8	6606.8	6499.4
17.5°	8562.0	8989.9	9041.8	9129.6	9253.1	9061.5	8400.9	7394.6	6859.3	6726.8
20°	8886.1	8751.8	8536.9	8574.5	8857.4	9113.5	8891.4	8041.0	7389.2	7247.8
22.5°	9437.5	8692.7	8205.7	8173.5	8531.6	9287.1	9611.2	8916.5	8160.9	8021.3
25°	10114.3	8841.3	8083.9	8014.1	8404.4	9541.4	10393.6	9989.0	9163.6	8950.5
27.5°	10852.0	9149.3	8083.9	8015.9	8393.7	9767.0	11063.3	10937.9	10202.1	9969.3
30°	11256.6	9403.5	8200.3	8123.3	8526.2	9897.7	11421.4	11781.2	10982.7	10694.4
32.5°	11618.3	9756.2	8427.7	8282.7	8803.7	10091.1	11741.9	12497.4	11604.0	11410.6
35°	11951.3	10134.0	8741.0	8572.7	9169.0	10356.0	12096.4	13249.4	12468.8	12176.9
37.5°	12318.4	10572.7	9229.8	9086.6	9779.5	10871.7	12517.1	14237.8	13319.3	12952.2
40°	12717.7	11081.2	10033.8	9972.9	10749.9	11455.4	13048.9	15292.3	14289.7	13872.5
42.5°	13124.1	11666.7	11018.5	11118.8	11849.3	12273.6	13595.0	16103.4	15084.7	14624.5
45°	13492.9	12415.1	12298.7	12794.6	13131.3	13072.2	13999.6	16674.6	15777.6	15337.1
47.5°	13958.5	13505.5	13847.4	14612.0	14620.9	13940.5	14305.8	17141.9	16373.8	15933.3
50°	14479.5	14792.8	15847.4	16626.2	16416.8	14794.6	14663.9	17695.1	16989.7	16637.0
52.5°	15082.9	16234.1	17695.1	18559.9	18071.1	15725.6	15260.1	18293.2	17967.3	17628.9
55°	15784.7	17217.1	19537.5	20226.9	19734.5	16882.3	16166.1	19104.2	19072.0	18841.0
57.5°	16577.9	18255.6	20604.6	21537.5	21098.8	18239.4	17431.9	19868.8	19747.0	19618.1
59°	17204.6	18789.1	21075.5	22042.4	21777.4	19190.2	18282.4	20345.0	19902.8	19709.4
60°	17584.1	19150.8	21249.2	22110.4	22049.6	19756.0	18821.3	20577.8	19901.0	19632.4
62.5°	18710.3	19782.8	21183.0	21807.8	22046.0	20841.0	20402.3	20833.8	19532.2	19138.3
65°	19111.4	19573.3	20085.4	20008.4	20212.5	20785.5	21412.1	20552.7	18744.4	18183.9
67.5°	18330.8	17276.2	17457.0	16943.2	16842.9	18479.4	21002.1	19177.7	17202.8	16517.0
70°	15451.7	13235.1	13143.8	13380.1	12732.0	14961.1	18858.9	16529.6	14658.5	13881.5
72.5°	12162.6	9353.4	8583.5	9453.6	9434.0	11414.2	15666.6	11729.3	9903.1	9836.8
75°	9564.7	6511.9	5715.2	5856.6	6128.8	8263.0	12477.7	7448.3	6098.3	5557.6
77.5°	6420.6	4614.0	4304.3	4130.6	4424.2	5305.1	7894.2	4039.3	3419.8	3238.9
80°	3700.9	3351.7	3806.5	3455.6	3613.2	3342.8	3926.5	1853.1	1538.0	1665.1
82.5°	2408.2	1908.6	2034.0	1511.2	2066.2	2084.1	1260.5	547.9	463.7	492.4
85°	1505.8	895.2	503.1	358.1	712.6	1310.6	393.9	34.0	39.4	34.0
87.5°	390.3	148.6	62.7	93.1	114.6	102.1	91.3	5.4	1.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)