

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: P458815

Luminaire Tested: **GALN-SA3C-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14040 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

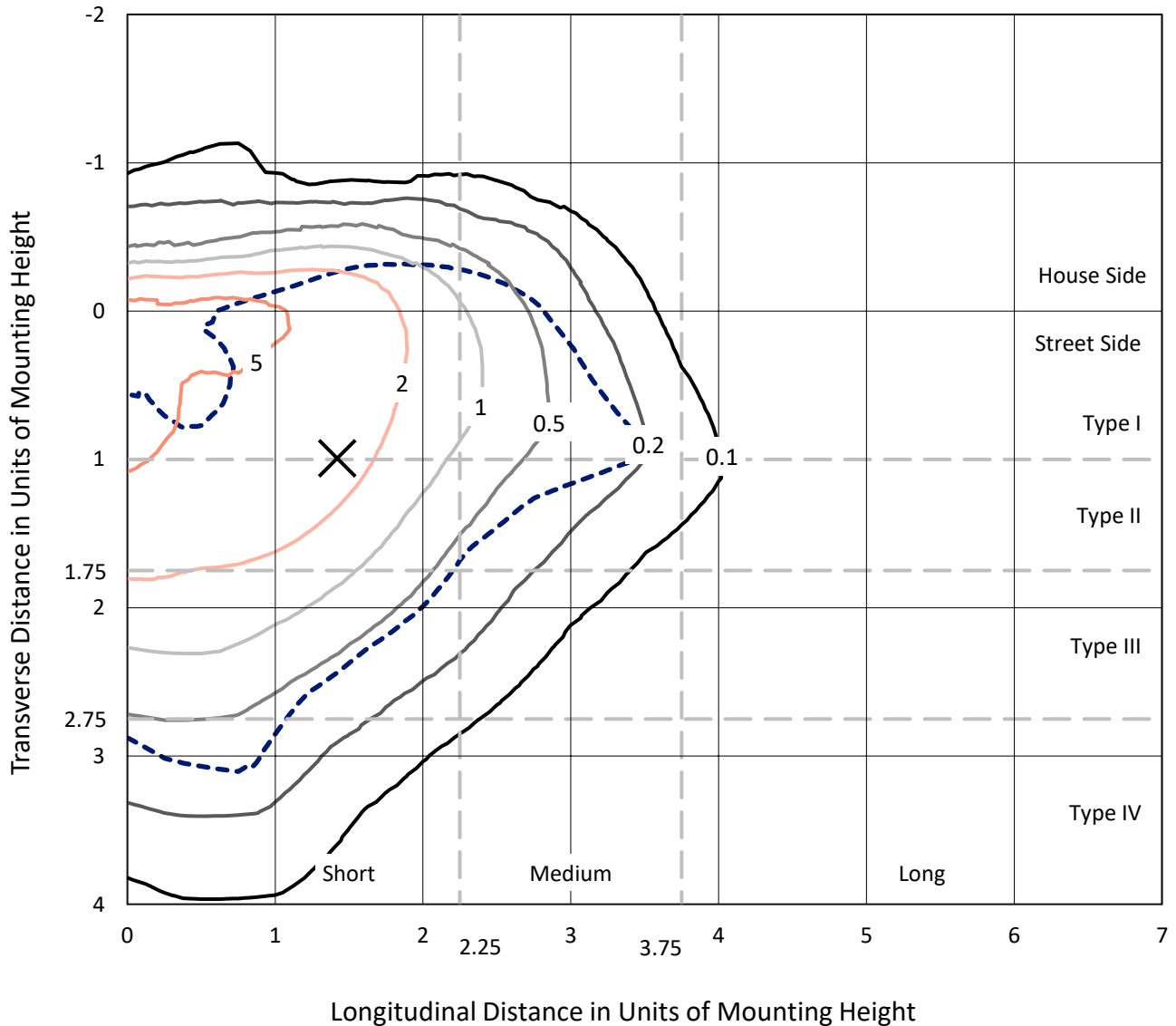
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

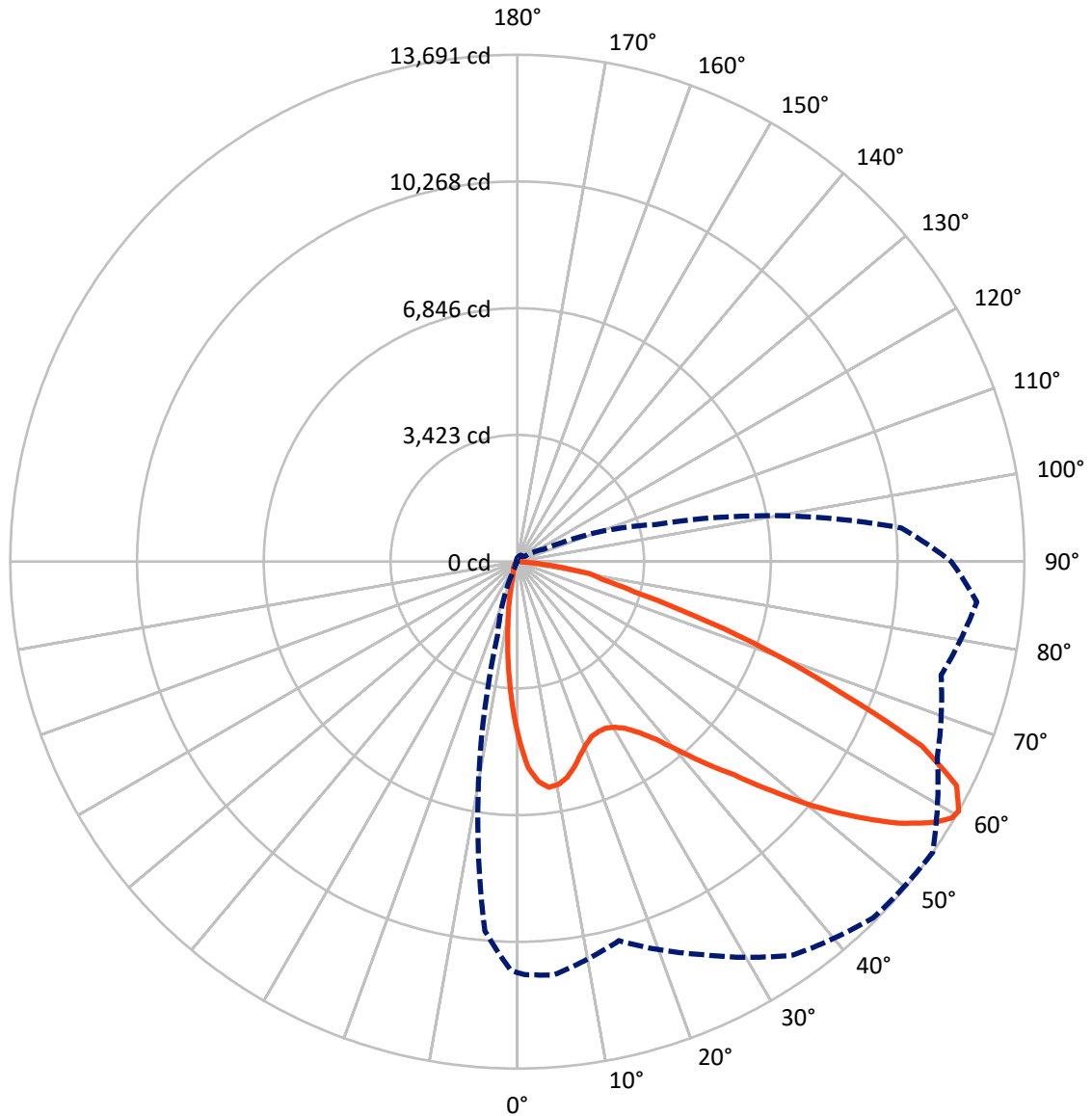
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2083.7	0.0	2083.7
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	11956.3	0.0	11956.3
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	14040.0	0.0	14040.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.0	2.5
10°-20°	693.2	4.9
20°-30°	1026.1	7.3
30°-40°	1529.5	10.9
40°-50°	2240.0	16.0
50°-60°	3233.9	23.0
60°-70°	3401.9	24.2
70°-80°	1399.4	10.0
80°-90°	163.9	1.2
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°	14040.0	100.0
0°-180°	14040.0	100.0

**Coefficient of Utilization**



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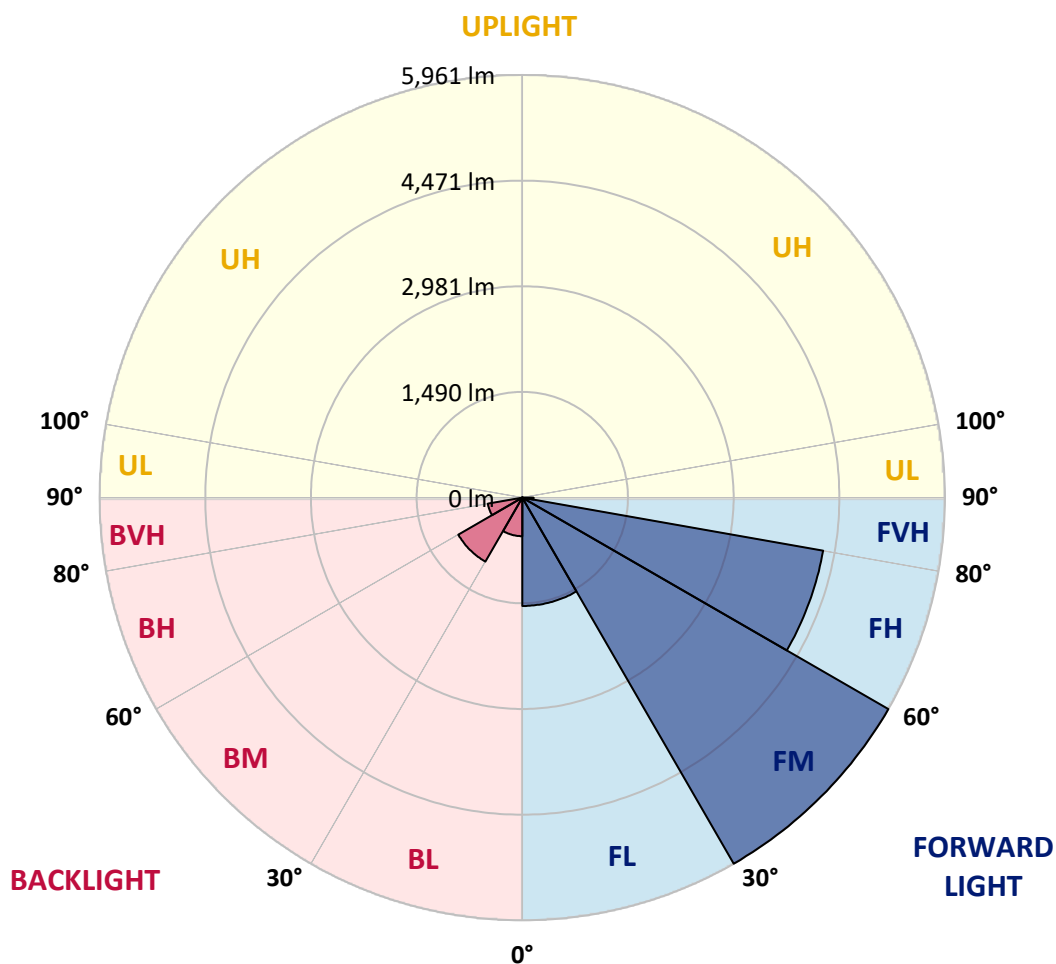
CATALOG NUMBER: GALN-SA3C-735-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1527.7	10.9			
FM	(30°-60°)	5961.4	42.5			
FH	(60°-80°)	4308.1	30.7			G2/5000
FVH	(80°-90°)	159.1	1.1			G2/225
BL	(0°-30°)	543.6	3.9	B2/1000		
BM	(30°-60°)	1042.0	7.4	B2/2500		
BH	(60°-80°)	493.2	3.5	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9
2.5°	5193.7	5185.1	5261.8	5387.2	5513.6	5579.5	5566.6	5561.2	5456.3	5379.6	5218.6
5°	5182.9	5227.2	5364.5	5703.8	5961.0	6085.3	6122.0	5967.5	5763.3	5467.2	5101.9
7.5°	4872.8	4927.9	5151.6	5682.2	6139.3	6409.5	6399.8	6152.3	5730.8	5272.6	4751.7
10°	4488.1	4552.9	4815.5	5459.6	6052.9	6409.5	6429.0	6115.6	5591.4	5003.5	4455.6
12.5°	4216.8	4293.5	4584.2	5252.1	5830.3	6181.5	6204.2	5977.2	5486.6	4899.8	4294.6
15°	4125.0	4197.4	4492.4	5147.3	5593.6	5782.7	5777.3	5753.5	5445.5	4924.7	4303.3
17.5°	4282.7	4342.2	4675.0	5194.8	5372.1	5352.6	5380.7	5495.3	5454.2	5133.2	4575.6
20°	4690.1	4750.7	5108.4	5340.7	5202.4	5079.2	5092.2	5283.4	5534.2	5525.5	5001.4
22.5°	5251.0	5353.7	5677.9	5623.9	5179.7	4909.5	4882.5	5131.1	5670.3	5977.2	5576.3
25°	5961.0	6064.8	6317.6	6075.6	5291.0	4869.5	4844.7	5084.6	5835.7	6418.2	6223.6
27.5°	6557.6	6636.4	6888.2	6515.4	5455.3	4886.8	4845.8	5091.1	5969.7	6793.1	6769.4
30°	7035.2	7093.6	7241.6	6720.7	5596.8	4962.5	4914.9	5186.2	6029.1	6975.8	7211.4
32.5°	7419.9	7518.3	7564.8	6940.1	5800.0	5105.1	5024.1	5368.8	6173.9	7201.6	7675.0
35°	7859.8	7973.2	7913.8	7149.8	6068.0	5327.7	5228.3	5664.9	6393.3	7410.2	8213.2
37.5°	8417.4	8548.2	8315.8	7370.2	6351.1	5662.8	5616.3	6081.0	6726.1	7708.5	8790.2
40°	8994.5	9070.1	8705.9	7638.2	6699.1	6150.1	6194.4	6699.1	7161.7	8066.2	9404.1
42.5°	9445.1	9516.5	9106.9	7863.0	7054.7	6728.3	6913.1	7444.8	7660.9	8432.5	9862.3
45°	9789.9	9850.4	9384.6	8108.3	7534.5	7565.8	7914.9	8213.2	8161.3	8656.2	10215.7
47.5°	10057.9	10109.7	9598.6	8372.0	8253.1	8590.3	9124.2	9250.6	8680.0	8898.3	10535.5
50°	10168.1	10183.2	9665.6	8708.1	9069.1	9895.8	10452.3	10375.6	9274.4	9167.4	10875.9
52.5°	10311.8	10308.6	9856.9	9028.0	9836.3	11062.9	11618.4	11444.4	9946.6	9570.5	11258.5
55°	10689.0	10693.3	10266.4	9481.9	10490.1	12005.3	12599.6	12473.2	10655.5	10251.3	11704.8
57.5°	11147.2	11163.4	10848.9	10012.5	11114.8	12688.2	13332.3	13283.7	11614.1	11008.9	12126.3
59°	11206.6	11239.1	11124.5	10386.4	11485.5	12897.9	13583.0	13630.6	12127.4	11508.1	12354.3
60°	11098.6	11152.6	11204.5	10598.2	11702.7	12973.5	13598.2	13691.1	12513.2	11847.5	12458.1
62.5°	10627.4	10712.8	10973.2	11249.9	11973.9	12738.0	13115.1	13309.6	12990.8	12739.0	12467.8
65°	10010.3	10054.6	10430.7	11365.5	11447.6	11637.8	11754.5	12004.2	12417.0	13082.7	12021.5
67.5°	8998.8	9129.6	9589.9	10694.4	9894.7	9669.9	9640.7	9392.2	10464.2	12263.5	10921.3
70°	7434.0	7492.3	8059.7	8767.5	7467.5	7121.7	7260.0	7167.1	8111.6	10557.1	8790.2
72.5°	5621.7	5753.5	6307.9	6988.7	5081.4	4632.9	5014.3	4979.8	6092.9	8484.4	6038.8
75°	3999.6	4085.0	4791.7	5469.3	3558.7	3015.1	3152.3	3280.9	4253.6	6699.1	3568.4
77.5°	2748.2	2821.7	3352.3	3617.0	2595.8	2486.6	2274.8	2399.1	2787.1	3974.7	1942.0
80°	1657.8	1654.5	2003.6	2068.4	1808.0	2099.8	1761.5	1977.6	1684.8	1701.0	752.2
82.5°	1076.4	1065.5	1225.5	1335.7	1006.1	1058.0	710.0	1023.4	1098.0	474.4	237.7
85°	482.0	502.5	589.0	777.0	440.9	234.5	144.8	314.5	467.9	238.8	0.0
87.5°	49.7	38.9	103.7	189.1	60.5	6.5	21.6	10.8	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°	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9
2.5°	5144.0	5081.4	4894.4	4719.3	4569.1	4385.4	4266.5	4079.6	3966.1	3931.5	3936.9
5°	4937.6	4757.1	4401.6	4117.4	3800.7	3620.3	3345.8	3082.1	2939.4	2886.5	2862.7
7.5°	4505.3	4311.9	3882.9	3436.6	3097.2	2780.6	2576.3	2344.0	2185.1	2054.4	2031.7
10°	4184.4	3930.4	3398.7	2918.9	2650.9	2413.2	2208.9	1976.6	1789.6	1640.5	1599.4
12.5°	3992.0	3707.8	3114.5	2712.5	2458.5	2214.3	1948.5	1679.4	1488.1	1327.1	1252.5
15°	3957.4	3627.8	3034.5	2564.5	2251.1	1956.0	1602.6	1311.9	1115.3	962.9	916.4
17.5°	4166.0	3771.6	3022.7	2409.9	1979.8	1561.6	1194.1	953.2	731.6	646.2	612.7
20°	4537.8	4025.5	3021.6	2230.5	1701.0	1202.8	838.6	621.4	531.7	490.6	471.2
22.5°	5044.6	4371.3	3078.9	2076.0	1411.4	887.2	598.7	495.0	443.1	409.6	402.0
25°	5663.8	4883.6	3219.3	1971.2	1189.8	696.0	493.9	423.6	380.4	365.3	358.8
27.5°	6213.9	5374.2	3373.9	1863.1	1031.0	616.0	458.2	388.0	353.4	341.5	331.8
30°	6688.3	5819.5	3448.4	1720.4	903.4	564.1	464.7	415.0	369.6	333.9	317.7
32.5°	7083.8	6160.9	3497.1	1590.8	795.4	461.4	367.4	321.0	300.4	287.5	276.7
35°	7578.8	6530.5	3467.9	1517.3	740.3	420.4	335.0	276.7	242.1	216.1	205.3
37.5°	8097.5	6900.1	3417.1	1456.8	715.4	390.1	318.8	262.6	224.8	197.8	183.7
40°	8634.6	7242.7	3357.7	1400.6	692.7	370.7	309.1	250.7	212.9	183.7	168.6
42.5°	9126.3	7576.6	3333.9	1363.8	656.0	373.9	301.5	245.3	201.0	170.7	157.8
45°	9524.0	7893.3	3366.3	1344.4	616.0	368.5	303.7	238.8	191.3	162.1	149.1
47.5°	9948.7	8340.7	3471.1	1324.9	577.1	342.6	319.9	237.7	187.0	156.7	142.6
50°	10442.6	8913.4	3711.1	1277.4	529.5	314.5	340.4	236.7	181.6	150.2	136.2
52.5°	11100.7	9564.0	3958.5	1194.1	460.4	287.5	325.3	233.4	170.7	142.6	128.6
55°	11691.9	10249.2	4168.2	1095.8	372.8	248.6	292.9	219.4	152.4	129.7	116.7
57.5°	11936.1	10636.0	4161.7	959.6	298.3	218.3	241.0	201.0	132.9	114.6	103.7
59°	11846.4	10587.4	4022.3	859.1	272.3	202.1	199.9	198.8	124.3	103.7	95.1
60°	11720.0	10410.2	3872.1	809.4	256.1	191.3	183.7	196.7	116.7	97.3	88.6
62.5°	11235.8	9675.3	3373.9	725.1	234.5	162.1	147.0	166.4	103.7	84.3	76.7
65°	10534.5	8546.0	2856.2	701.4	228.0	134.0	122.1	118.9	88.6	71.3	64.8
67.5°	9166.3	7231.9	2313.7	685.2	230.2	112.4	107.0	89.7	73.5	59.4	55.1
70°	7338.9	5639.0	1894.4	666.8	232.3	91.9	89.7	71.3	59.4	49.7	45.4
72.5°	4458.9	3342.5	1491.3	579.2	225.9	73.5	80.0	54.0	43.2	35.7	33.5
75°	2756.8	2287.8	925.1	450.6	149.1	54.0	56.2	33.5	29.2	22.7	22.7
77.5°	1597.2	1444.9	330.7	162.1	65.9	32.4	24.9	17.3	16.2	9.7	9.7
80°	662.5	530.6	114.6	55.1	35.7	15.1	5.4	1.1	0.0	0.0	0.0
82.5°	193.4	171.8	31.3	24.9	10.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9
2.5°	3845.1	3809.4	3793.2	3848.3	3797.5	3862.3	3812.6	3834.2	3898.0	3926.1	3998.5
5°	2877.8	2841.1	2823.8	2907.0	2902.7	2943.8	2939.4	2977.3	3009.7	2937.3	3011.9
7.5°	2004.7	1979.8	2020.9	2085.7	2154.9	2132.2	2132.2	2081.4	2098.7	2087.9	2084.6
10°	1524.8	1439.5	1417.9	1415.7	1441.6	1447.0	1417.9	1347.6	1373.5	1381.1	1426.5
12.5°	1199.6	1133.6	1033.1	987.7	975.9	985.6	889.4	827.8	857.0	839.7	884.0
15°	860.2	806.2	746.7	696.0	681.9	662.5	557.6	484.1	475.5	478.7	486.3
17.5°	613.8	577.1	577.1	523.0	493.9	435.5	382.6	350.1	346.9	350.1	355.5
20°	452.8	433.4	431.2	417.1	384.7	345.8	309.1	302.6	300.4	305.8	308.0
22.5°	390.1	369.6	352.3	351.2	321.0	288.5	271.3	262.6	263.7	265.8	271.3
25°	349.1	327.4	309.1	298.3	276.7	254.0	237.7	233.4	233.4	236.7	237.7
27.5°	319.9	292.9	276.7	261.5	242.1	222.6	208.6	205.3	203.2	205.3	210.7
30°	299.3	272.3	251.8	229.1	214.0	195.6	183.7	179.4	178.3	179.4	183.7
32.5°	256.1	239.9	223.7	203.2	184.8	172.9	159.9	152.4	152.4	154.5	158.9
35°	193.4	184.8	183.7	178.3	163.2	150.2	135.1	127.5	127.5	131.8	134.0
37.5°	170.7	154.5	152.4	150.2	143.7	126.4	112.4	105.9	104.8	108.1	112.4
40°	155.6	137.2	127.5	125.4	126.4	107.0	91.9	85.4	85.4	86.5	90.8
42.5°	143.7	122.1	104.8	102.7	107.0	89.7	74.6	68.1	68.1	68.1	73.5
45°	134.0	109.1	88.6	77.8	84.3	73.5	60.5	54.0	51.9	54.0	56.2
47.5°	127.5	99.4	77.8	62.7	62.7	58.4	48.6	41.1	38.9	40.0	43.2
50°	122.1	90.8	65.9	50.8	45.4	46.5	36.7	31.3	29.2	29.2	32.4
52.5°	113.5	82.1	57.3	43.2	34.6	31.3	27.0	22.7	21.6	22.7	24.9
55°	102.7	74.6	49.7	35.7	27.0	21.6	19.5	16.2	15.1	16.2	19.5
57.5°	90.8	62.7	40.0	28.1	18.4	14.0	13.0	10.8	8.6	9.7	11.9
59°	83.2	56.2	34.6	22.7	14.0	9.7	9.7	7.6	5.4	6.5	9.7
60°	80.0	51.9	29.2	19.5	11.9	7.6	7.6	5.4	3.2	4.3	7.6
62.5°	68.1	43.2	22.7	11.9	5.4	1.1	3.2	1.1	0.0	1.1	3.2
65°	57.3	34.6	15.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	47.5	25.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	37.8	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P458815  
 CATALOG NUMBER: GALN-SA3C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9	4753.9
2.5°	4002.8	4157.4	4252.5	4431.9	4615.6	4757.1	4934.4	5093.2	5159.2	5193.7
5°	3087.5	3302.6	3485.2	3758.6	4012.6	4321.6	4635.0	5004.6	5146.2	5182.9
7.5°	2166.8	2386.1	2577.4	2894.1	3256.1	3670.0	4139.0	4608.0	4814.4	4872.8
10°	1564.8	1799.3	2032.8	2349.4	2687.6	3136.1	3624.6	4204.9	4442.7	4488.1
12.5°	987.7	1239.5	1618.9	2010.1	2367.8	2728.7	3239.9	3871.0	4133.6	4216.8
15°	572.8	760.8	1047.2	1557.3	2012.2	2489.9	3047.5	3745.6	4039.6	4125.0
17.5°	383.6	448.5	645.2	1035.3	1636.1	2269.4	2998.9	3848.3	4173.6	4282.7
20°	323.1	352.3	421.5	631.1	1260.1	2072.7	3011.9	4127.1	4554.0	4690.1
22.5°	284.2	311.2	355.5	453.9	879.7	1828.5	3073.4	4525.9	5077.0	5251.0
25°	250.7	277.7	316.6	376.1	591.1	1546.5	3208.5	5109.4	5769.7	5961.0
27.5°	222.6	247.5	281.0	331.8	455.0	1232.0	3328.5	5677.9	6401.9	6557.6
30°	196.7	217.2	249.6	288.5	378.2	949.9	3389.0	6175.0	6862.3	7035.2
32.5°	170.7	190.2	221.5	252.9	311.2	724.1	3346.9	6540.3	7309.7	7419.9
35°	145.9	166.4	192.4	221.5	269.1	584.6	3136.1	6950.9	7773.3	7859.8
37.5°	125.4	142.6	169.7	192.4	243.2	467.9	2881.1	7320.5	8293.1	8417.4
40°	105.9	123.2	150.2	170.7	223.7	368.5	2650.9	7731.2	8841.0	8994.5
42.5°	86.5	107.0	130.8	164.3	192.4	281.0	2372.1	8064.0	9252.8	9445.1
45°	69.2	91.9	117.8	163.2	167.5	214.0	2103.0	8323.4	9617.0	9789.9
47.5°	55.1	77.8	113.5	152.4	137.2	169.7	1949.5	8594.6	9919.5	10057.9
50°	44.3	64.8	118.9	134.0	114.6	143.7	1945.2	8897.2	10076.2	10168.1
52.5°	35.7	53.0	100.5	102.7	97.3	126.4	2061.9	9237.6	10236.2	10311.8
55°	30.3	44.3	65.9	75.6	87.5	114.6	2149.5	9761.8	10617.7	10689.0
57.5°	23.8	37.8	50.8	60.5	77.8	104.8	2161.4	10165.9	11100.7	11147.2
59°	20.5	32.4	45.4	54.0	71.3	98.3	2112.7	10190.8	11132.1	11206.6
60°	17.3	29.2	40.0	50.8	65.9	92.9	2059.8	10010.3	11015.4	11098.6
62.5°	13.0	22.7	29.2	41.1	54.0	80.0	1809.1	9380.3	10569.0	10627.4
65°	8.6	16.2	21.6	30.3	42.1	69.2	1474.0	8563.3	9879.6	10010.3
67.5°	5.4	11.9	17.3	22.7	34.6	58.4	1050.4	7343.2	8914.5	8998.8
70°	3.2	7.6	13.0	18.4	27.0	46.5	623.6	5804.3	7416.7	7434.0
72.5°	2.2	5.4	8.6	13.0	21.6	42.1	302.6	3783.5	5415.3	5621.7
75°	1.1	3.2	5.4	9.7	17.3	34.6	144.8	2527.7	3940.2	3999.6
77.5°	0.0	1.1	3.2	6.5	13.0	27.0	84.3	1659.9	2686.6	2748.2
80°	0.0	0.0	2.2	5.4	9.7	17.3	50.8	979.1	1627.5	1657.8
82.5°	0.0	0.0	1.1	4.3	6.5	13.0	25.9	430.1	1065.5	1076.4
85°	0.0	0.0	1.1	4.3	5.4	8.6	9.7	58.4	473.3	482.0
87.5°	0.0	0.0	1.1	5.4	5.4	5.4	5.4	3.2	40.0	49.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)