

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: P459105

Luminaire Tested: **GALN-SA6A-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459105  
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-SA6A-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA 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: 18142 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

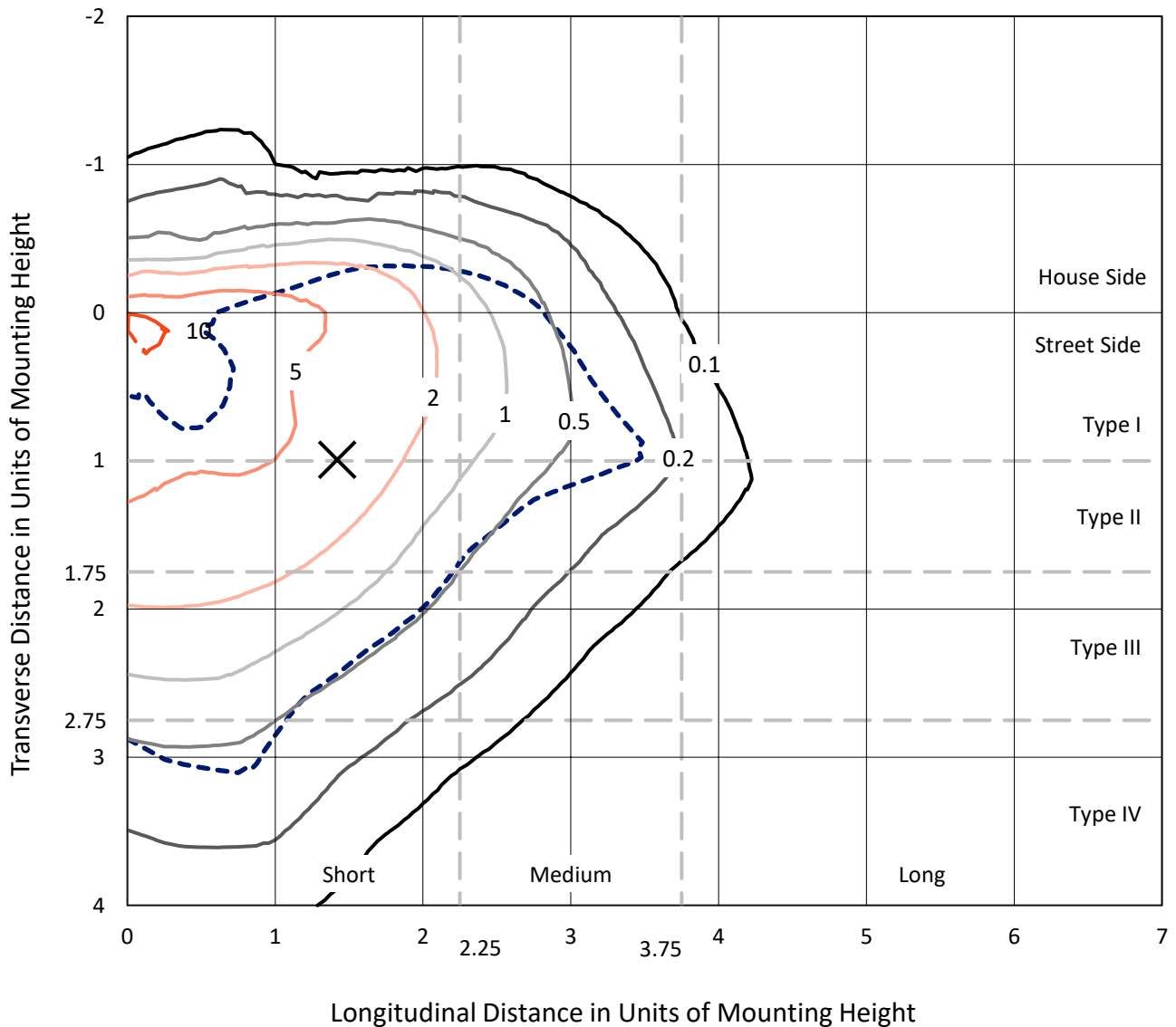
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

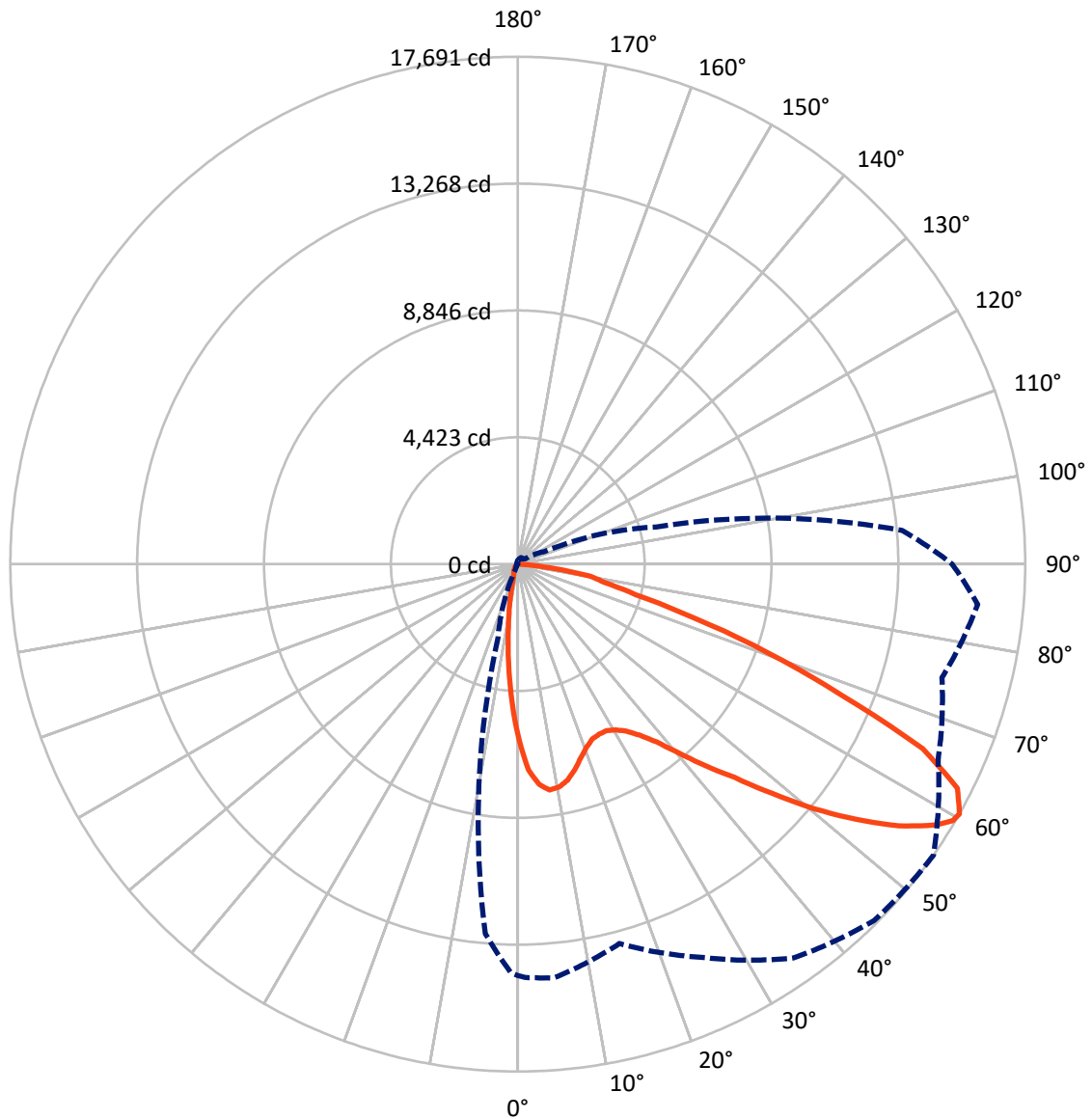
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	2692.4	0.0	2692.4
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	15449.6	0.0	15449.6
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	18142.0	0.0	18142.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.9	2.5
10°-20°	895.8	4.9
20°-30°	1325.9	7.3
30°-40°	1976.4	10.9
40°-50°	2894.5	16.0
50°-60°	4178.7	23.0
60°-70°	4395.8	24.2
70°-80°	1808.3	10.0
80°-90°	211.8	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°	18142.0	100.0
0°-180°	18142.0	100.0

**Coefficient of Utilization**



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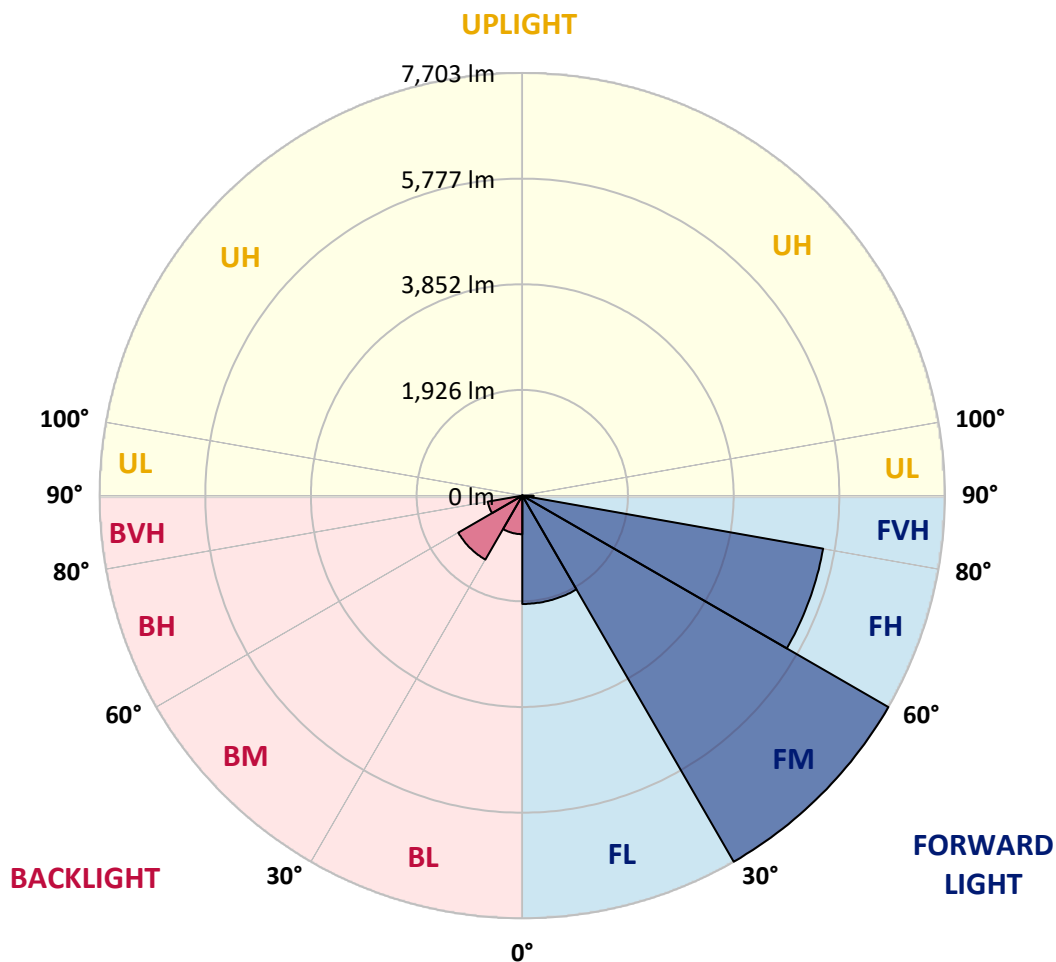
CATALOG NUMBER: GALN-SA6A-735-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1974.1	10.9			
FM	(30°-60°)	7703.1	42.5			
FH	(60°-80°)	5566.8	30.7			G3/7500
FVH	(80°-90°)	205.6	1.1			G2/225
BL	(0°-30°)	702.5	3.9	B2/1000		
BM	(30°-60°)	1346.5	7.4	B2/2500		
BH	(60°-80°)	637.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.2	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8
2.5°	6711.2	6700.0	6799.1	6961.1	7124.5	7209.7	7192.9	7186.0	7050.5	6951.4	6743.3
5°	6697.2	6754.5	6931.8	7370.3	7702.6	7863.2	7910.7	7711.0	7447.1	7064.5	6592.5
7.5°	6296.4	6367.7	6656.7	7342.4	7933.0	8282.1	8269.6	7949.8	7405.2	6813.1	6140.0
10°	5799.3	5883.1	6222.4	7054.7	7821.3	8282.1	8307.3	7902.3	7225.1	6465.4	5757.4
12.5°	5448.8	5548.0	5923.6	6786.6	7533.7	7987.5	8016.8	7723.6	7089.6	6331.3	5549.4
15°	5330.1	5423.7	5804.9	6651.1	7227.8	7472.2	7465.2	7434.5	7036.5	6363.5	5560.5
17.5°	5534.0	5610.8	6040.9	6712.6	6941.6	6916.4	6952.8	7100.8	7047.7	6633.0	5912.4
20°	6060.4	6138.6	6600.9	6901.1	6722.3	6563.2	6579.9	6827.1	7151.0	7139.9	6462.6
22.5°	6785.2	6917.8	7336.8	7266.9	6693.0	6343.9	6309.0	6630.2	7327.0	7723.6	7205.5
25°	7702.6	7836.7	8163.4	7850.6	6836.8	6292.2	6260.1	6570.1	7540.6	8293.3	8042.0
27.5°	8473.4	8575.4	8900.8	8419.0	7049.1	6314.6	6261.5	6578.5	7713.8	8777.9	8747.1
30°	9090.7	9166.1	9357.4	8684.3	7232.0	6412.3	6350.9	6701.4	7790.6	9013.9	9318.3
32.5°	9587.8	9714.9	9774.9	8967.8	7494.6	6596.7	6491.9	6937.4	7977.7	9305.7	9917.3
35°	10156.1	10302.8	10225.9	9238.7	7840.9	6884.3	6755.9	7320.0	8261.2	9575.2	10612.8
37.5°	10876.7	11045.6	10745.4	9523.6	8206.7	7317.2	7257.2	7857.6	8691.3	9960.6	11358.4
40°	11622.4	11720.1	11249.5	9869.9	8656.4	7947.0	8004.3	8656.4	9254.0	10422.8	12151.6
42.5°	12204.7	12296.8	11767.6	10160.3	9115.8	8694.1	8932.9	9619.9	9899.2	10896.2	12743.7
45°	12650.1	12728.3	12126.5	10477.3	9735.8	9776.3	10227.3	10612.8	10545.7	11185.3	13200.3
47.5°	12996.4	13063.5	12403.0	10818.0	10664.4	11100.1	11789.9	11953.3	11216.0	11498.1	13613.7
50°	13138.9	13158.4	12489.5	11252.3	11718.7	12787.0	13506.1	13407.0	11984.0	11845.8	14053.5
52.5°	13324.6	13320.4	12736.7	11665.7	12710.2	14295.1	15012.9	14788.0	12852.6	12366.7	14547.9
55°	13811.9	13817.5	13265.9	12252.1	13555.0	15512.8	16280.8	16117.4	13768.7	13246.4	15124.6
57.5°	14404.0	14425.0	14018.6	12937.8	14362.1	16395.3	17227.6	17164.7	15007.3	14225.3	15669.2
59°	14480.8	14522.7	14374.7	13420.9	14841.1	16666.2	17551.5	17613.0	15670.6	14870.4	15963.8
60°	14341.2	14411.0	14478.0	13694.6	15121.8	16764.0	17571.1	17691.2	16169.1	15308.9	16097.9
62.5°	13732.3	13842.7	14179.2	14536.7	15472.3	16459.5	16946.9	17198.3	16786.3	16460.9	16110.4
65°	12935.0	12992.2	13478.2	14686.1	14792.2	15038.0	15188.8	15511.4	16044.8	16905.0	15533.7
67.5°	11628.0	11796.9	12391.8	13818.9	12785.6	12495.1	12457.4	12136.2	13521.5	15846.5	14112.2
70°	9605.9	9681.3	10414.5	11329.1	9649.2	9202.4	9381.1	9261.0	10481.5	13641.6	11358.4
72.5°	7264.2	7434.5	8150.9	9030.6	6565.9	5986.4	6479.4	6434.7	7873.0	10963.3	7803.2
75°	5168.1	5278.4	6191.7	7067.3	4598.4	3896.0	4073.3	4239.5	5496.3	8656.4	4611.0
77.5°	3551.1	3646.0	4331.7	4673.8	3354.2	3213.2	2939.5	3100.0	3601.4	5136.0	2509.4
80°	2142.1	2137.9	2589.0	2672.7	2336.2	2713.2	2276.2	2555.4	2177.0	2198.0	971.9
82.5°	1390.8	1376.9	1583.5	1726.0	1300.1	1367.1	917.4	1322.4	1418.8	613.0	307.2
85°	622.8	649.3	761.0	1004.0	569.7	303.0	187.1	406.4	604.6	308.6	0.0
87.5°	64.2	50.3	134.1	244.4	78.2	8.4	27.9	14.0	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°	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8
2.5°	6646.9	6565.9	6324.4	6098.1	5904.0	5666.7	5513.0	5271.5	5124.8	5080.2	5087.1
5°	6380.2	6147.0	5687.6	5320.3	4911.2	4678.0	4323.3	3982.6	3798.2	3729.8	3699.1
7.5°	5821.7	5571.7	5017.3	4440.6	4002.1	3593.0	3329.1	3028.8	2823.6	2654.6	2625.3
10°	5406.9	5078.8	4391.7	3771.7	3425.4	3118.2	2854.3	2554.0	2312.5	2119.8	2066.7
12.5°	5158.4	4791.1	4024.5	3505.0	3176.8	2861.3	2517.7	2170.0	1922.9	1714.8	1618.4
15°	5113.7	4687.8	3921.1	3313.7	2908.7	2527.5	2070.9	1695.2	1441.1	1244.2	1184.2
17.5°	5383.2	4873.5	3905.8	3114.0	2558.2	2017.8	1543.0	1231.6	945.4	835.1	791.8
20°	5863.5	5201.6	3904.4	2882.2	2198.0	1554.2	1083.6	802.9	687.0	634.0	608.8
22.5°	6518.5	5648.5	3978.4	2682.5	1823.7	1146.5	773.6	639.6	572.5	529.2	519.5
25°	7318.6	6310.4	4159.9	2547.1	1537.5	899.3	638.2	547.4	491.5	472.0	463.6
27.5°	8029.4	6944.4	4359.6	2407.4	1332.2	796.0	592.1	501.3	456.6	441.3	428.7
30°	8642.4	7519.7	4456.0	2223.1	1167.4	728.9	600.5	536.2	477.6	431.5	410.5
32.5°	9153.5	7961.0	4518.8	2055.5	1027.8	596.3	474.8	414.7	388.2	371.4	357.5
35°	9793.1	8438.5	4481.1	1960.6	956.5	543.2	432.9	357.5	312.8	279.3	265.3
37.5°	10463.3	8916.1	4415.5	1882.4	924.4	504.1	411.9	339.3	290.5	255.5	237.4
40°	11157.4	9358.8	4338.7	1809.8	895.1	479.0	399.4	324.0	275.1	237.4	217.8
42.5°	11792.7	9790.3	4307.9	1762.3	847.6	483.2	389.6	317.0	259.7	220.6	203.9
45°	12306.6	10199.4	4349.8	1737.1	796.0	476.2	392.4	308.6	247.2	209.5	192.7
47.5°	12855.4	10777.5	4485.3	1712.0	745.7	442.7	413.3	307.2	241.6	202.5	184.3
50°	13493.6	11517.6	4795.3	1650.6	684.2	406.4	439.9	305.8	234.6	194.1	175.9
52.5°	14344.0	12358.3	5115.1	1543.0	594.9	371.4	420.3	301.6	220.6	184.3	166.2
55°	15107.8	13243.6	5386.0	1416.0	481.8	321.2	378.4	283.5	196.9	167.6	150.8
57.5°	15423.4	13743.5	5377.6	1240.0	385.4	282.1	311.4	259.7	171.8	148.0	134.1
59°	15307.5	13680.7	5197.5	1110.2	351.9	261.1	258.3	256.9	160.6	134.1	122.9
60°	15144.1	13451.7	5003.4	1045.9	331.0	247.2	237.4	254.1	150.8	125.7	114.5
62.5°	14518.5	12502.1	4359.6	937.0	303.0	209.5	189.9	215.0	134.1	108.9	99.1
65°	13612.3	11042.9	3690.7	906.3	294.6	173.2	157.8	153.6	114.5	92.2	83.8
67.5°	11844.4	9344.8	2989.7	885.3	297.4	145.2	138.2	115.9	95.0	76.8	71.2
70°	9483.1	7286.5	2447.9	861.6	300.2	118.7	115.9	92.2	76.8	64.2	58.6
72.5°	5761.6	4319.1	1927.1	748.5	291.9	95.0	103.3	69.8	55.9	46.1	43.3
75°	3562.3	2956.2	1195.3	582.3	192.7	69.8	72.6	43.3	37.7	29.3	29.3
77.5°	2063.9	1867.0	427.3	209.5	85.2	41.9	32.1	22.3	20.9	12.6	12.6
80°	856.0	685.6	148.0	71.2	46.1	19.5	7.0	1.4	0.0	0.0	0.0
82.5°	250.0	222.0	40.5	32.1	14.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8
2.5°	4968.4	4922.4	4901.4	4972.6	4907.0	4990.8	4926.6	4954.5	5036.9	5073.2	5166.7
5°	3718.7	3671.2	3648.8	3756.4	3750.8	3803.8	3798.2	3847.1	3889.0	3795.5	3891.8
7.5°	2590.4	2558.2	2611.3	2695.1	2784.5	2755.1	2755.1	2689.5	2711.8	2697.9	2693.7
10°	1970.3	1860.0	1832.1	1829.3	1862.8	1869.8	1832.1	1741.3	1774.8	1784.6	1843.3
12.5°	1550.0	1464.8	1335.0	1276.3	1261.0	1273.5	1149.2	1069.7	1107.4	1085.0	1142.3
15°	1111.5	1041.7	964.9	899.3	881.1	856.0	720.6	625.6	614.4	618.6	628.4
17.5°	793.2	745.7	745.7	675.9	638.2	562.8	494.3	452.4	448.2	452.4	459.4
20°	585.1	560.0	557.2	539.0	497.1	446.9	399.4	391.0	388.2	395.2	398.0
22.5°	504.1	477.6	455.2	453.8	414.7	372.8	350.5	339.3	340.7	343.5	350.5
25°	451.0	423.1	399.4	385.4	357.5	328.2	307.2	301.6	301.6	305.8	307.2
27.5°	413.3	378.4	357.5	337.9	312.8	287.7	269.5	265.3	262.5	265.3	272.3
30°	386.8	351.9	325.4	296.0	276.5	252.8	237.4	231.8	230.4	231.8	237.4
32.5°	331.0	310.0	289.1	262.5	238.8	223.4	206.7	196.9	196.9	199.7	205.3
35°	250.0	238.8	237.4	230.4	210.9	194.1	174.6	164.8	164.8	170.4	173.2
37.5°	220.6	199.7	196.9	194.1	185.7	163.4	145.2	136.8	135.5	139.6	145.2
40°	201.1	177.3	164.8	162.0	163.4	138.2	118.7	110.3	110.3	111.7	117.3
42.5°	185.7	157.8	135.5	132.7	138.2	115.9	96.4	88.0	88.0	88.0	95.0
45°	173.2	141.0	114.5	100.5	108.9	95.0	78.2	69.8	67.0	69.8	72.6
47.5°	164.8	128.5	100.5	81.0	81.0	75.4	62.8	53.1	50.3	51.7	55.9
50°	157.8	117.3	85.2	65.6	58.6	60.0	47.5	40.5	37.7	37.7	41.9
52.5°	146.6	106.1	74.0	55.9	44.7	40.5	34.9	29.3	27.9	29.3	32.1
55°	132.7	96.4	64.2	46.1	34.9	27.9	25.1	20.9	19.5	20.9	25.1
57.5°	117.3	81.0	51.7	36.3	23.7	18.2	16.8	14.0	11.2	12.6	15.4
59°	107.5	72.6	44.7	29.3	18.2	12.6	12.6	9.8	7.0	8.4	12.6
60°	103.3	67.0	37.7	25.1	15.4	9.8	9.8	7.0	4.2	5.6	9.8
62.5°	88.0	55.9	29.3	15.4	7.0	1.4	4.2	1.4	0.0	1.4	4.2
65°	74.0	44.7	19.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	61.4	33.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	48.9	22.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	33.5	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	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: P459105

CATALOG NUMBER: GALN-SA6A-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8	6142.8
2.5°	5172.3	5372.0	5494.9	5726.7	5964.1	6147.0	6376.0	6581.3	6666.5	6711.2
5°	3989.6	4267.4	4503.4	4856.7	5184.9	5584.3	5989.2	6466.8	6649.7	6697.2
7.5°	2799.8	3083.3	3330.5	3739.6	4207.4	4742.2	5348.3	5954.3	6221.0	6296.4
10°	2022.0	2325.0	2626.7	3035.8	3472.9	4052.4	4683.6	5433.5	5740.7	5799.3
12.5°	1276.3	1601.7	2091.8	2597.3	3059.5	3525.9	4186.5	5002.0	5341.3	5448.8
15°	740.1	983.1	1353.1	2012.2	2600.1	3217.3	3937.9	4840.0	5219.8	5330.1
17.5°	495.7	579.5	833.7	1337.8	2114.2	2932.5	3875.1	4972.6	5393.0	5534.0
20°	417.5	455.2	544.6	815.5	1628.2	2678.3	3891.8	5332.9	5884.5	6060.4
22.5°	367.3	402.2	459.4	586.5	1136.7	2362.7	3971.4	5848.2	6560.4	6785.2
25°	324.0	358.9	409.1	486.0	763.8	1998.3	4146.0	6602.3	7455.5	7702.6
27.5°	287.7	319.8	363.1	428.7	587.9	1591.9	4301.0	7336.8	8272.4	8473.4
30°	254.1	280.7	322.6	372.8	488.7	1227.4	4379.2	7979.1	8867.2	9090.7
32.5°	220.6	245.8	286.3	326.8	402.2	935.6	4324.7	8451.1	9445.4	9587.8
35°	188.5	215.0	248.6	286.3	347.7	755.5	4052.4	8981.7	10044.4	10156.1
37.5°	162.0	184.3	219.2	248.6	314.2	604.6	3722.8	9459.3	10716.1	10876.7
40°	136.8	159.2	194.1	220.6	289.1	476.2	3425.4	9990.0	11424.1	11622.4
42.5°	111.7	138.2	169.0	212.3	248.6	363.1	3065.1	10420.1	11956.1	12204.7
45°	89.4	118.7	152.2	210.9	216.4	276.5	2717.4	10755.2	12426.7	12650.1
47.5°	71.2	100.5	146.6	196.9	177.3	219.2	2519.1	11105.7	12817.7	12996.4
50°	57.3	83.8	153.6	173.2	148.0	185.7	2513.5	11496.7	13020.2	13138.9
52.5°	46.1	68.4	129.9	132.7	125.7	163.4	2664.4	11936.6	13226.8	13324.6
55°	39.1	57.3	85.2	97.7	113.1	148.0	2777.5	12613.8	13719.8	13811.9
57.5°	30.7	48.9	65.6	78.2	100.5	135.5	2792.8	13136.1	14344.0	14404.0
59°	26.5	41.9	58.6	69.8	92.2	127.1	2730.0	13168.2	14384.5	14480.8
60°	22.3	37.7	51.7	65.6	85.2	120.1	2661.6	12935.0	14233.7	14341.2
62.5°	16.8	29.3	37.7	53.1	69.8	103.3	2337.6	12120.9	13656.9	13732.3
65°	11.2	20.9	27.9	39.1	54.5	89.4	1904.7	11065.2	12766.0	12935.0
67.5°	7.0	15.4	22.3	29.3	44.7	75.4	1357.3	9488.6	11519.0	11628.0
70°	4.2	9.8	16.8	23.7	34.9	60.0	805.7	7500.1	9583.6	9605.9
72.5°	2.8	7.0	11.2	16.8	27.9	54.5	391.0	4888.9	6997.4	7264.2
75°	1.4	4.2	7.0	12.6	22.3	44.7	187.1	3266.2	5091.3	5168.1
77.5°	0.0	1.4	4.2	8.4	16.8	34.9	108.9	2144.9	3471.5	3551.1
80°	0.0	0.0	2.8	7.0	12.6	22.3	65.6	1265.2	2103.0	2142.1
82.5°	0.0	0.0	1.4	5.6	8.4	16.8	33.5	555.8	1376.9	1390.8
85°	0.0	0.0	1.4	5.6	7.0	11.2	12.6	75.4	611.6	622.8
87.5°	0.0	0.0	1.4	7.0	7.0	7.0	7.0	4.2	51.7	64.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)