

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: P458876

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14527 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

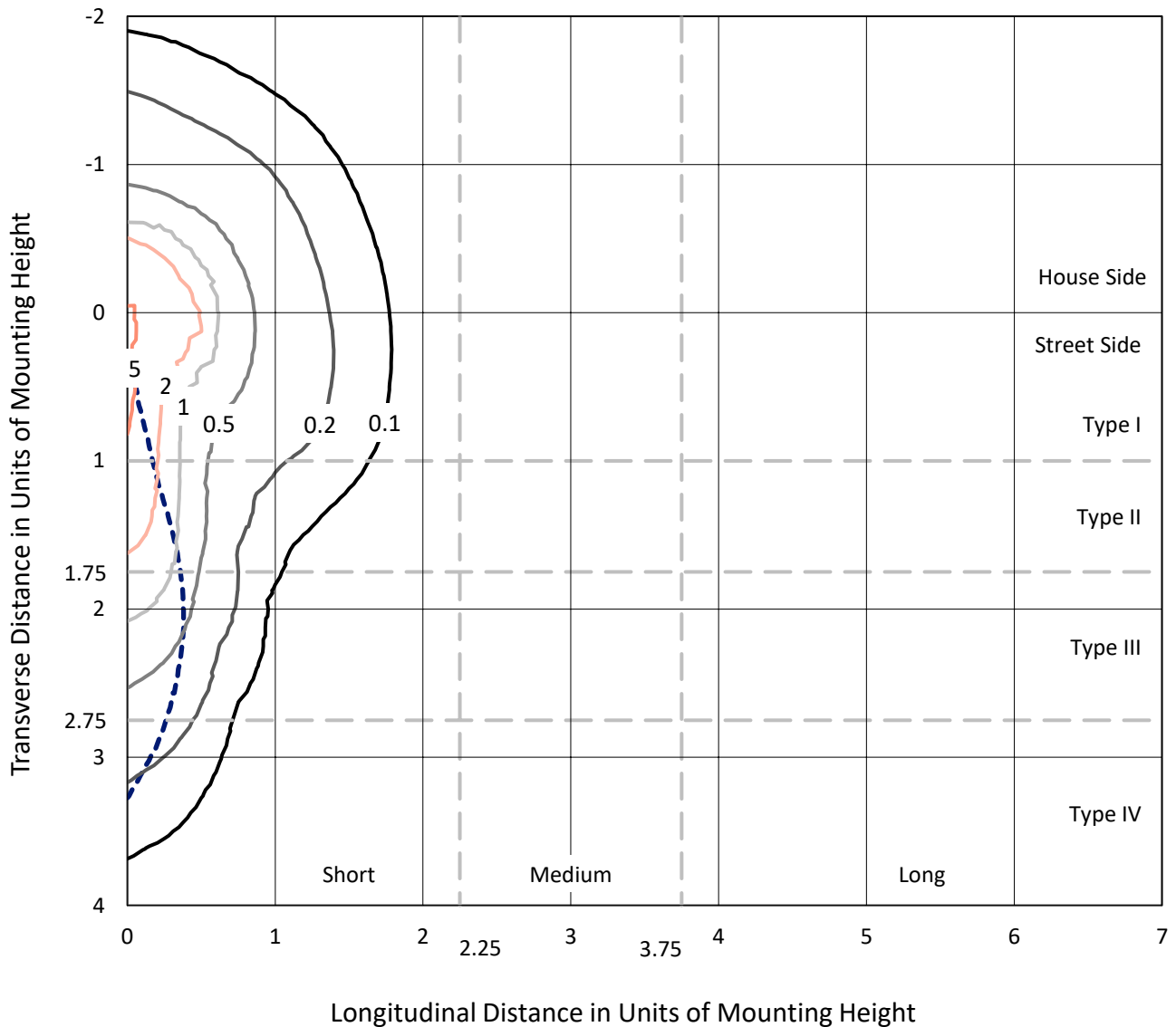
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

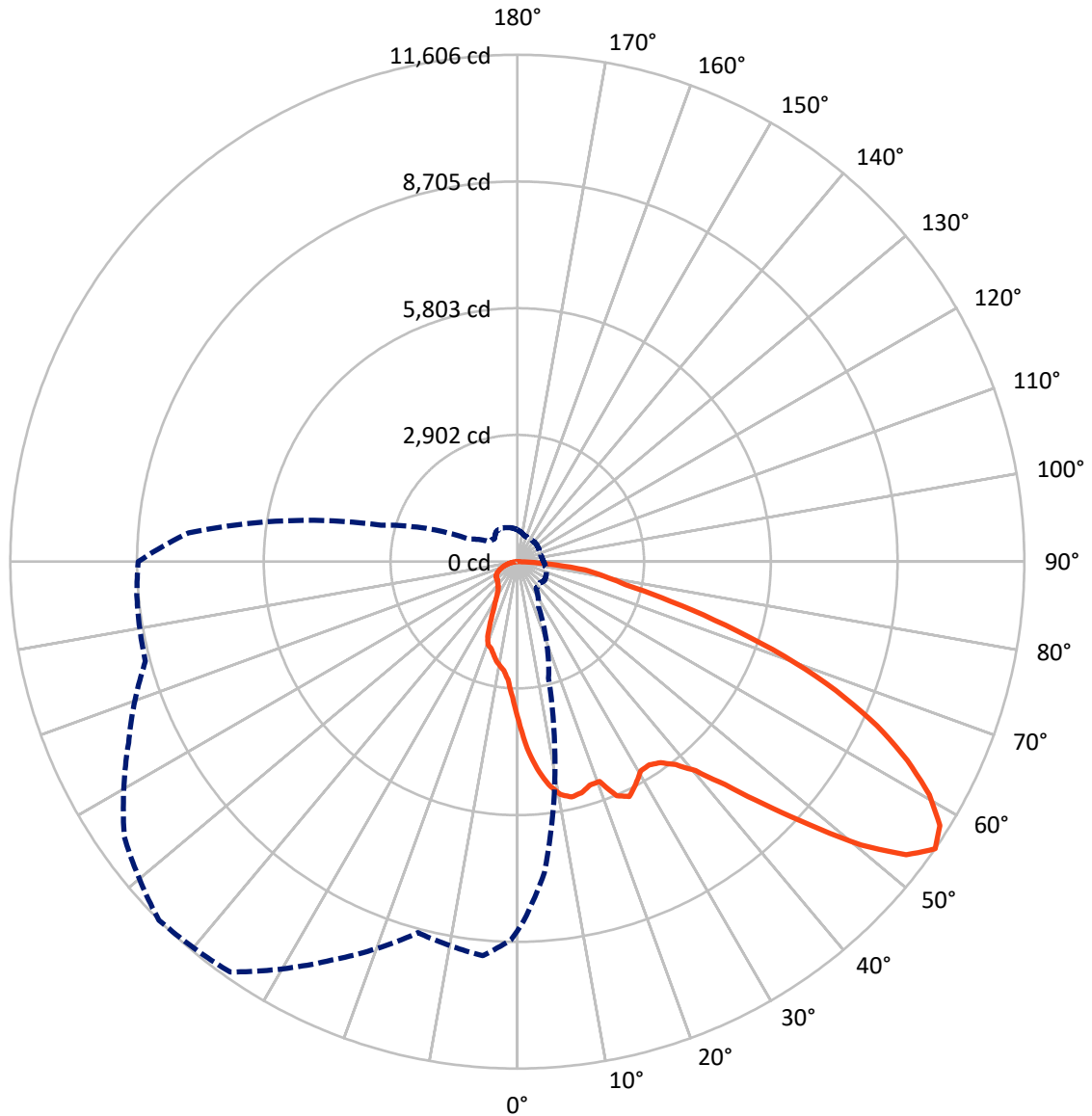
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3177.7	0.0	3177.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11349.3	0.0	11349.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	14527.0	0.0	14527.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.0	2.1
10°-20°	819.7	5.6
20°-30°	1416.1	9.7
30°-40°	1645.8	11.3
40°-50°	2296.2	15.8
50°-60°	3115.7	21.4
60°-70°	2964.2	20.4
70°-80°	1601.3	11.0
80°-90°	358.9	2.5
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°	14527.0	100.0
0°-180°	14527.0	100.0

**Coefficient of Utilization**



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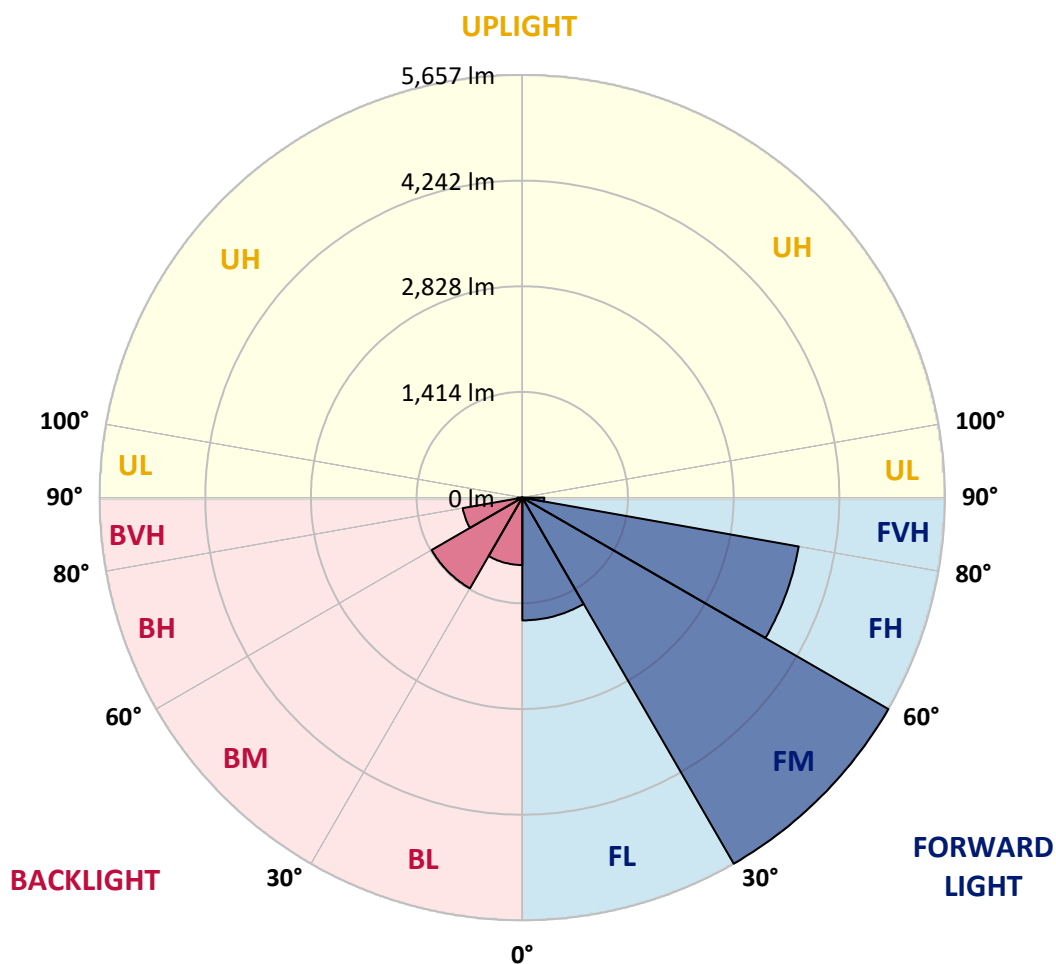
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1643.0	11.3			
FM	(30°-60°)	5656.5	38.9			
FH	(60°-80°)	3756.4	25.9			G2/5000
FVH	(80°-90°)	293.3	2.0			G3/500
BL	(0°-30°)	901.8	6.2	B2/1000		
BM	(30°-60°)	1401.2	9.6	B2/2500		
BH	(60°-80°)	809.1	5.6	B2/1000		G2/1000
BVH	(80°-90°)	65.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	4050.1	4034.8	3991.7	3878.6	3764.5	3648.6	3559.5	3448.3	3332.3	3270.0	3190.5
5°	4105.7	4088.5	3986.9	3732.0	3501.0	3258.5	3064.9	2895.3	2826.3	2724.7	2643.2
7.5°	3975.4	3967.7	3815.3	3449.2	3133.0	2815.7	2596.3	2460.2	2336.6	2290.5	2300.1
10°	3856.6	3825.9	3635.2	3156.9	2788.0	2530.1	2373.0	2239.8	2152.5	2129.5	2134.3
12.5°	3757.8	3716.6	3491.4	2960.5	2637.5	2431.4	2231.1	2092.2	2012.6	2034.7	2109.4
15°	3737.7	3682.1	3431.0	2893.4	2555.1	2289.6	2070.1	1910.1	1850.6	1898.6	2018.4
17.5°	3868.1	3798.1	3534.5	2915.4	2476.5	2144.9	1875.6	1692.5	1642.7	1719.3	1875.6
20°	4286.9	4183.4	3857.5	3042.9	2468.8	2073.0	1762.5	1578.5	1599.6	1745.2	1908.2
22.5°	5061.2	4906.0	4423.0	3228.8	2509.1	2054.8	1739.5	1643.6	1759.6	1883.2	1990.6
25°	5214.6	5092.9	4524.6	3271.0	2500.4	2042.3	1804.6	1852.6	1981.9	2043.3	2005.9
27.5°	5300.8	5161.9	4517.8	3062.1	2235.9	1852.6	1725.1	1804.6	1837.2	1777.8	1676.2
30°	5502.1	5357.4	4631.9	2842.6	1841.1	1374.3	1204.7	1172.1	1194.2	1205.7	1169.2
32.5°	5779.1	5636.3	4846.6	2698.8	1591.9	1136.6	969.9	923.9	913.3	900.9	886.5
35°	6137.5	5918.0	5057.4	2606.8	1489.3	1051.4	898.0	862.5	848.2	830.9	815.6
37.5°	6501.7	6271.7	5323.8	2510.0	1421.3	991.9	850.1	833.8	808.9	790.7	768.6
40°	6888.9	6631.1	5566.3	2425.7	1355.2	953.6	815.6	813.7	781.1	760.0	734.1
42.5°	7224.3	6958.9	5782.9	2373.9	1304.4	913.3	794.5	800.3	766.7	735.1	701.5
45°	7490.8	7230.1	5983.2	2373.9	1263.2	873.1	790.7	786.8	753.3	714.0	675.7
47.5°	7724.6	7455.3	6178.7	2434.3	1237.3	839.5	769.6	776.3	741.8	692.0	654.6
50°	7905.7	7668.1	6442.3	2528.2	1211.4	812.7	742.8	779.2	732.2	680.5	637.3
52.5°	8136.7	7924.0	6759.5	2656.7	1189.4	783.0	718.8	779.2	731.3	681.4	634.5
55°	8456.8	8232.6	7141.9	2763.0	1153.9	755.2	697.7	757.1	728.4	676.6	626.8
57.5°	8681.1	8513.4	7412.2	2834.0	1103.1	719.7	678.5	736.0	715.9	658.4	603.8
58°	8691.6	8527.7	7451.5	2850.2	1090.6	713.0	673.7	726.5	710.2	650.7	596.1
60°	8570.9	8430.0	7459.1	2827.2	1019.7	679.5	648.8	687.2	679.5	605.7	554.9
62.5°	8131.9	7981.5	7149.6	2640.4	925.8	638.3	610.5	634.5	617.2	542.4	495.5
65°	7508.0	7231.0	6513.2	2347.1	858.7	594.2	558.7	560.7	542.4	488.8	447.6
67.5°	6677.1	6367.5	5514.6	1978.1	807.9	545.3	497.4	492.6	470.6	436.1	402.5
70°	5654.5	5442.7	4481.4	1609.1	751.4	491.7	428.4	425.5	412.1	386.2	356.5
72.5°	4583.0	4313.7	3618.9	1288.1	682.4	439.9	364.2	369.9	352.7	334.5	307.6
75°	3382.2	3205.8	2797.5	1033.1	589.4	383.4	303.8	305.7	298.1	278.9	257.8
77.5°	2227.3	2174.6	2001.1	678.5	453.3	304.8	248.2	250.1	244.4	227.1	205.1
80°	1498.9	1463.5	1356.1	437.0	302.9	220.4	191.7	193.6	192.6	174.4	144.7
82.5°	923.9	908.6	874.1	295.2	209.9	158.1	126.5	132.3	142.8	122.7	98.7
85°	436.1	437.0	528.1	161.0	123.6	101.6	69.0	73.8	73.8	73.8	55.6
87.5°	56.5	59.4	72.8	68.0	45.0	38.3	24.9	21.1	18.2	24.0	17.3
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°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	3162.7	3143.5	3102.3	3092.7	3087.0	3103.3	3060.1	3071.6	3052.5	3106.1	3097.5
5°	2648.0	2649.9	2683.5	2705.5	2713.2	2705.5	2676.8	2626.9	2588.6	2573.3	2577.1
7.5°	2281.9	2315.5	2373.0	2437.2	2495.6	2512.9	2496.6	2401.7	2298.2	2233.0	2212.0
10°	2160.2	2205.3	2271.4	2322.2	2373.9	2415.1	2423.8	2350.0	2227.3	2073.0	2012.6
12.5°	2166.9	2228.3	2291.5	2307.8	2303.0	2319.3	2311.6	2299.2	2218.7	2022.2	1921.6
15°	2103.7	2176.5	2220.6	2212.0	2196.6	2182.3	2162.1	2130.5	2101.7	1963.7	1852.6
17.5°	1958.0	2032.7	2069.2	2072.0	2072.0	2068.2	2019.3	2007.8	2004.0	1936.9	1868.9
20°	1984.8	2026.0	2009.7	1982.9	1990.6	2016.4	1987.7	1981.9	2004.0	2033.7	2021.2
22.5°	2000.2	1985.8	1863.1	1744.3	1717.4	1797.9	1814.2	1878.4	1967.6	2074.9	2144.9
25°	1905.3	1789.3	1569.8	1435.7	1360.0	1434.7	1532.5	1651.3	1784.5	1922.5	2004.0
27.5°	1592.8	1504.7	1347.5	1226.7	1160.6	1172.1	1255.5	1363.8	1487.4	1580.4	1639.8
30°	1199.9	1160.6	1079.1	1037.9	997.7	988.1	1023.6	1064.8	1119.4	1130.9	1146.2
32.5°	883.6	877.9	882.7	869.3	861.6	860.6	850.1	859.7	865.4	872.1	858.7
35°	799.3	791.6	778.2	774.4	769.6	771.5	766.7	761.9	765.8	771.5	775.3
37.5°	756.2	744.7	725.5	718.8	718.8	721.7	714.0	712.1	718.8	737.0	746.6
40°	722.6	709.2	687.2	678.5	684.3	692.0	681.4	677.6	693.9	713.0	728.4
42.5°	691.0	680.5	659.4	649.8	654.6	669.0	653.6	650.7	671.8	692.9	711.1
45°	664.2	653.6	634.5	629.7	631.6	645.0	634.5	634.5	654.6	677.6	693.9
47.5°	643.1	629.7	617.2	613.4	615.3	623.0	621.0	621.0	640.2	664.2	680.5
50°	622.0	610.5	594.2	596.1	600.9	611.5	610.5	613.4	632.5	662.2	679.5
52.5°	612.4	595.2	576.9	578.9	593.2	605.7	601.9	604.7	626.8	682.4	707.3
55°	601.9	578.9	557.8	560.7	576.9	595.2	590.4	594.2	620.1	695.8	730.3
57.5°	581.7	554.9	531.9	533.8	557.8	576.9	569.3	574.1	604.7	681.4	717.8
58°	573.1	550.1	528.1	529.0	552.0	573.1	564.5	568.3	600.0	677.6	712.1
60°	536.7	523.3	504.1	505.1	527.1	545.3	540.5	544.4	575.0	649.8	675.7
62.5°	486.9	479.2	474.4	474.4	487.8	505.1	509.9	514.7	542.4	587.5	610.5
65°	433.2	433.2	434.1	434.1	442.8	464.8	467.7	480.2	506.0	528.1	545.3
67.5°	396.8	394.9	396.8	392.0	395.8	409.2	423.6	435.1	461.9	477.3	483.0
70°	349.8	348.9	349.8	343.1	347.9	359.4	369.0	388.1	415.9	427.4	430.3
72.5°	303.8	303.8	305.7	300.9	300.9	313.4	320.1	341.2	367.1	373.8	374.7
75°	255.9	258.8	258.8	252.1	254.0	261.6	270.3	287.5	311.5	316.3	316.3
77.5°	203.2	213.7	213.7	207.0	209.9	210.8	222.3	231.0	249.2	251.1	243.4
80°	147.6	158.1	166.8	161.0	165.8	160.1	166.8	172.5	190.7	182.1	169.6
82.5°	105.4	113.1	119.8	120.8	116.0	105.4	114.0	115.0	123.6	112.1	105.4
85°	58.5	65.2	73.8	70.0	62.3	55.6	58.5	60.4	59.4	56.5	52.7
87.5°	15.3	16.3	18.2	13.4	12.5	10.5	14.4	14.4	16.3	17.3	16.3
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°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	3104.2	3146.4	3237.4	3306.4	3390.8	3493.3	3614.1	3735.8	3867.1	3908.3	3965.8
5°	2568.5	2673.9	2718.0	2843.5	2968.1	3155.0	3354.4	3585.3	3838.3	3960.1	4077.0
7.5°	2194.7	2251.3	2297.3	2389.3	2538.8	2765.9	3016.0	3304.5	3663.0	3840.3	4011.8
10°	1993.4	1999.2	2055.7	2169.8	2300.1	2500.4	2737.2	3060.1	3459.8	3675.4	3876.7
12.5°	1860.2	1835.3	1896.7	2015.5	2163.1	2348.1	2565.6	2873.2	3313.1	3534.5	3778.0
15°	1743.3	1704.0	1750.0	1871.7	2017.4	2235.0	2468.8	2794.7	3255.6	3513.5	3783.7
17.5°	1746.2	1637.9	1654.2	1756.7	1901.4	2122.8	2406.5	2791.8	3342.9	3640.0	3960.1
20°	1961.8	1788.4	1714.6	1733.7	1873.6	2115.2	2435.3	2926.0	3629.4	4062.6	4404.8
22.5°	2173.6	2069.2	1950.3	1911.0	1987.7	2240.7	2618.3	3243.2	4252.4	4905.0	5523.2
25°	2099.8	2189.0	2159.2	2103.7	2120.9	2330.8	2742.9	3503.9	4736.4	5471.4	6052.2
27.5°	1680.1	1842.0	1874.6	1873.6	1880.4	2052.9	2466.9	3328.5	4796.7	5579.7	6134.6
30°	1180.7	1195.1	1212.4	1245.9	1276.6	1430.9	1930.2	2922.1	4769.9	5628.6	6184.5
32.5°	852.0	871.2	895.1	941.1	1014.0	1210.4	1688.7	2792.7	4911.7	5830.8	6330.2
35°	779.2	801.2	824.2	876.9	945.9	1128.0	1592.8	2739.1	5144.6	6158.6	6591.8
37.5°	756.2	781.1	801.2	839.5	895.1	1068.6	1505.6	2702.7	5383.3	6505.5	6942.6
40°	739.9	768.6	784.9	815.6	853.9	1014.0	1428.0	2673.9	5614.2	6822.8	7224.3
42.5°	725.5	755.2	776.3	798.3	830.0	965.1	1359.0	2645.2	5814.5	7130.4	7505.1
45°	708.2	745.6	772.5	789.7	817.5	923.9	1306.3	2622.2	6042.6	7403.6	7788.8
47.5°	693.9	735.1	768.6	788.8	799.3	895.1	1264.1	2653.8	6316.7	7689.2	8052.4
50°	694.8	734.1	776.3	807.9	780.1	871.2	1238.2	2779.3	6673.3	8028.4	8260.3
52.5°	725.5	773.4	807.0	814.6	753.3	842.4	1224.8	2998.8	7094.9	8328.4	8470.2
55°	760.0	809.8	846.3	841.5	738.9	806.0	1221.9	3232.6	7556.9	8678.2	8743.4
57.5°	747.5	820.4	876.0	851.0	739.9	770.5	1209.5	3421.4	7943.1	8939.8	9013.6
58°	743.7	816.5	879.8	849.1	737.0	760.0	1206.6	3437.7	7996.8	8958.1	9052.0
60°	706.3	783.0	876.9	834.8	720.7	731.3	1175.0	3490.5	7982.4	8864.1	9075.0
62.5°	638.3	701.5	810.8	764.8	670.9	692.9	1104.1	3425.3	7593.3	8411.8	8738.6
65°	561.6	608.6	681.4	672.8	600.0	653.6	1007.3	3167.5	6814.1	7677.6	8021.7
67.5°	504.1	542.4	588.5	576.0	539.6	600.9	902.8	2731.4	5940.1	6795.9	7229.1
70°	445.7	475.4	498.4	489.7	478.2	549.2	809.8	2216.8	5102.5	5958.3	6378.1
72.5°	386.2	414.0	433.2	420.7	414.0	494.5	734.1	1720.3	4030.0	4915.6	5455.1
75°	323.0	350.8	364.2	349.8	346.0	436.1	622.0	1285.2	3023.7	3789.5	4255.2
77.5°	250.1	279.8	297.1	292.3	294.2	358.4	502.2	879.8	2162.1	2582.9	3073.6
80°	175.4	208.0	219.5	214.7	228.1	273.1	354.6	558.7	1491.3	1676.2	2022.2
82.5°	108.3	139.0	140.9	145.7	155.3	202.2	267.4	340.2	936.3	968.0	1219.1
85°	54.6	66.1	70.9	78.6	87.2	123.6	152.4	210.8	602.8	456.2	681.4
87.5°	18.2	19.2	23.0	28.8	35.5	50.8	65.2	86.3	149.5	82.4	210.8
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: P458876

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	4081.8	4163.2	4222.7	4277.3	4224.6	4219.8	4168.0	4084.7	4050.1	4050.1
5°	4322.3	4513.1	4667.4	4766.1	4723.9	4622.3	4454.6	4240.9	4125.9	4105.7
7.5°	4388.5	4765.1	5051.7	5153.3	5082.3	4858.1	4537.0	4176.7	4011.8	3975.4
10°	4348.2	4837.9	5258.7	5419.7	5321.0	4981.7	4543.7	4101.9	3898.7	3856.6
12.5°	4306.0	4847.5	5297.0	5529.9	5465.7	5081.4	4592.6	4053.0	3818.2	3757.8
15°	4336.7	4851.4	5250.1	5490.6	5531.8	5201.2	4673.1	4088.5	3801.9	3737.7
17.5°	4530.3	4924.2	5183.0	5377.5	5522.2	5364.1	4902.2	4258.1	3947.6	3868.1
20°	4934.7	5098.6	5221.3	5371.8	5604.7	5696.7	5370.8	4723.9	4356.8	4286.9
22.5°	6105.9	6076.2	5825.1	5822.2	6159.6	6528.5	6506.5	5670.8	5118.8	5061.2
25°	6544.8	6406.8	6043.6	5955.4	6104.0	6673.3	6590.8	5864.4	5354.5	5214.6
27.5°	6373.3	6031.1	5792.5	5772.4	5723.5	6261.2	6459.5	5943.0	5436.9	5300.8
30°	6362.7	5859.6	5518.4	5558.7	5605.6	6119.3	6532.4	6189.3	5647.8	5502.1
32.5°	6388.6	5883.5	5538.5	5546.2	5686.1	6140.4	6612.9	6457.6	5924.8	5779.1
35°	6493.1	6019.6	5667.0	5648.7	5867.3	6278.4	6749.9	6879.3	6303.3	6137.5
37.5°	6661.8	6290.9	5901.8	5897.0	6214.2	6527.6	6920.5	7304.8	6680.0	6501.7
40°	6910.0	6608.1	6319.6	6293.7	6685.7	6933.0	7141.9	7758.2	7118.0	6888.9
42.5°	7210.0	6988.6	6870.7	6973.2	7349.9	7388.2	7486.9	8177.0	7490.8	7224.3
45°	7487.9	7477.3	7641.2	7913.4	8132.9	7902.9	7847.3	8457.8	7780.2	7490.8
47.5°	7818.5	8104.1	8598.7	8997.4	9227.4	8501.9	8154.9	8640.8	7991.0	7724.6
50°	8154.0	8854.6	9644.3	10200.1	10249.0	9152.6	8366.7	8813.3	8182.7	7905.7
52.5°	8506.7	9453.5	10504.9	11150.8	11056.0	9719.0	8571.8	8930.3	8380.1	8136.7
55°	8813.3	9820.6	10986.0	11606.1	11467.1	10064.0	8793.2	9056.8	8661.9	8456.8
57.5°	8984.9	9851.3	10866.2	11407.7	11257.2	9996.9	8894.8	9150.7	8842.1	8681.1
58°	9009.8	9810.1	10759.8	11292.7	11139.3	9940.4	8893.8	9146.9	8853.6	8691.6
60°	8987.8	9542.7	10364.0	10838.4	10677.4	9585.8	8857.4	9075.0	8707.9	8570.9
62.5°	8783.6	9078.8	9680.7	10025.7	9979.7	9031.9	8707.9	8803.8	8264.2	8131.9
65°	8515.3	8446.3	8805.7	9050.1	9084.6	8616.9	8559.4	8217.2	7694.9	7508.0
67.5°	8189.4	7729.4	7728.4	7867.4	7924.9	7978.6	8249.8	7579.9	6874.5	6677.1
70°	7636.4	6624.4	6319.6	6483.5	6435.6	6888.9	7696.8	6684.8	5885.5	5654.5
72.5°	6622.5	5256.8	4768.9	4979.8	4859.0	5402.4	6734.6	5501.1	4866.7	4583.0
75°	5367.9	3932.3	3429.1	3622.7	3548.0	4098.1	5603.7	3995.5	3490.5	3382.2
77.5°	4168.0	2849.3	2557.0	2530.1	2585.7	3049.6	4110.5	2697.9	2301.1	2227.3
80°	2677.7	2039.5	2056.7	2022.2	2051.0	1922.5	2495.6	1721.3	1558.3	1498.9
82.5°	1762.5	1421.3	1694.4	1564.1	1485.5	1292.9	1636.9	1127.1	956.5	923.9
85°	1200.9	1046.6	952.6	728.4	857.8	995.8	1227.7	606.7	481.1	436.1
87.5°	542.4	364.2	267.4	164.8	260.7	300.9	596.1	70.9	54.6	56.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)