

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: P452351

Luminaire Tested: **GALN-SA3B-740-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452351  
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-SA3B-740-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA 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: 14642 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

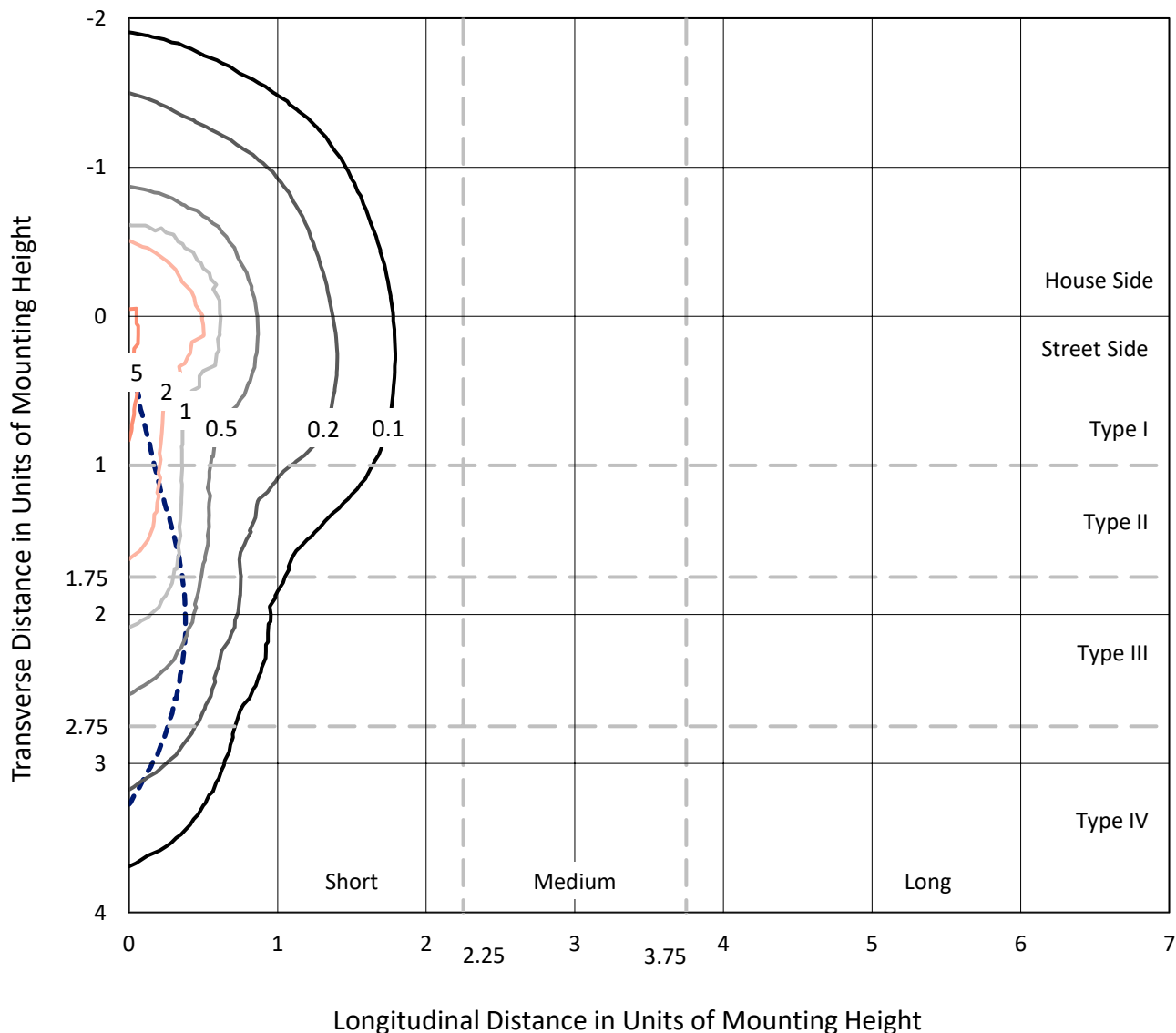
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

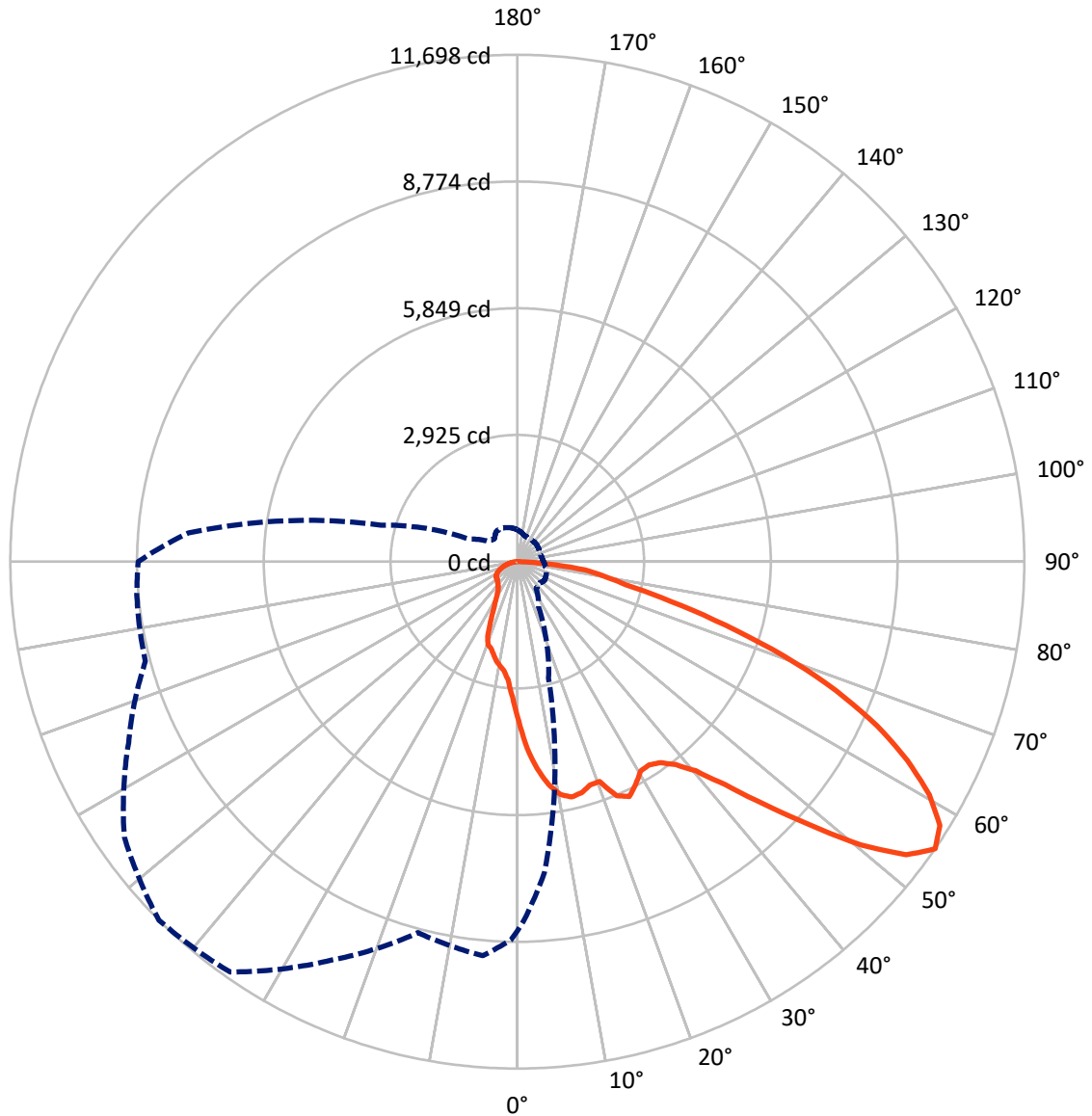
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	3202.9	0.0	3202.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11439.1	0.0	11439.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	14642.0	0.0	14642.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.4	2.1
10°-20°	826.2	5.6
20°-30°	1427.4	9.7
30°-40°	1658.8	11.3
40°-50°	2314.4	15.8
50°-60°	3140.4	21.4
60°-70°	2987.7	20.4
70°-80°	1614.0	11.0
80°-90°	361.7	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°	14642.0	100.0
0°-180°	14642.0	100.0



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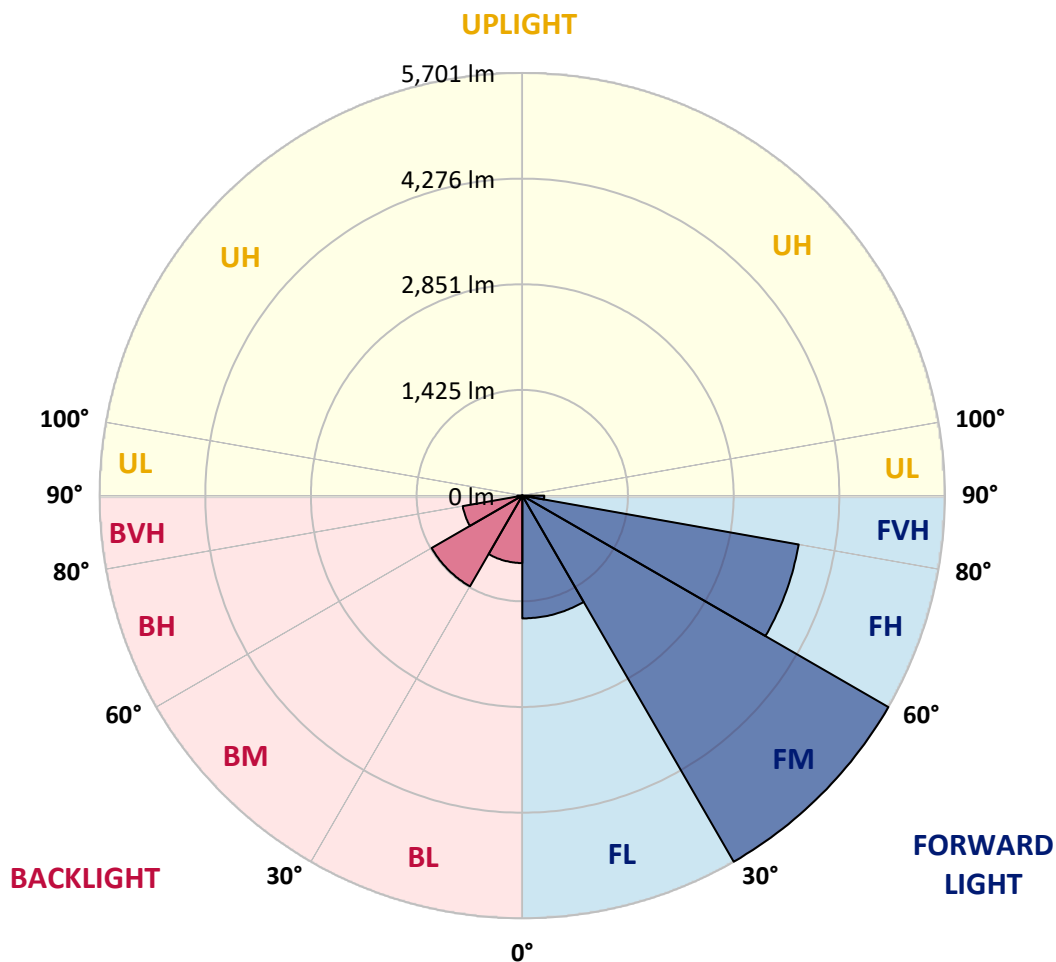
CATALOG NUMBER: GALN-SA3B-740-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.0	11.3			
FM	(30°-60°)	5701.3	38.9			
FH	(60°-80°)	3786.2	25.9			G2/5000
FVH	(80°-90°)	295.6	2.0			G3/500
BL	(0°-30°)	909.0	6.2	B2/1000		
BM	(30°-60°)	1412.3	9.6	B2/2500		
BH	(60°-80°)	815.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	66.1	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°	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6
2.5°	4082.2	4066.8	4023.3	3909.3	3794.4	3677.5	3587.6	3475.6	3358.7	3295.9	3215.7
5°	4138.2	4120.9	4018.5	3761.5	3528.7	3284.3	3089.2	2918.2	2848.7	2746.3	2664.2
7.5°	4006.9	3999.1	3845.5	3476.5	3157.8	2838.0	2616.8	2479.7	2355.0	2308.7	2318.3
10°	3887.1	3856.2	3663.9	3181.9	2810.0	2550.2	2391.8	2257.5	2169.6	2146.4	2151.2
12.5°	3787.6	3746.1	3519.0	2983.9	2658.4	2450.7	2248.8	2108.7	2028.5	2050.8	2126.1
15°	3767.3	3711.3	3458.2	2916.3	2575.3	2307.7	2086.5	1925.2	1865.3	1913.6	2034.3
17.5°	3898.7	3828.2	3562.5	2938.5	2496.1	2161.9	1890.4	1705.9	1655.7	1733.0	1890.4
20°	4320.8	4216.5	3888.1	3067.0	2488.4	2089.4	1776.4	1591.0	1612.2	1759.0	1923.3
22.5°	5101.3	4944.8	4458.0	3254.4	2528.9	2071.1	1753.2	1656.6	1773.5	1898.1	2006.3
25°	5255.9	5133.2	4560.4	3296.9	2520.2	2058.5	1818.9	1867.2	1997.6	2059.5	2021.8
27.5°	5342.8	5202.7	4553.6	3086.3	2253.6	1867.2	1738.8	1818.9	1851.8	1791.9	1689.5
30°	5545.7	5399.8	4668.6	2865.1	1855.6	1385.2	1214.2	1181.4	1203.6	1215.2	1178.5
32.5°	5824.8	5680.9	4884.9	2720.2	1604.5	1145.6	977.6	931.2	920.6	908.0	893.5
35°	6186.1	5964.9	5097.5	2627.5	1501.1	1059.7	905.1	869.4	854.9	837.5	822.0
37.5°	6553.2	6321.3	5366.0	2529.9	1432.5	999.8	856.8	840.4	815.3	796.9	774.7
40°	6943.4	6683.6	5610.4	2444.9	1365.9	961.1	822.0	820.1	787.3	766.0	739.9
42.5°	7281.5	7013.9	5828.7	2392.7	1314.7	920.6	800.8	806.6	772.8	740.9	707.1
45°	7550.1	7287.3	6030.6	2392.7	1273.2	880.0	796.9	793.1	759.3	719.7	681.0
47.5°	7785.8	7514.3	6227.6	2453.6	1247.1	846.2	775.7	782.4	747.7	697.4	659.8
50°	7968.3	7728.8	6493.3	2548.2	1221.0	819.1	748.6	785.3	738.0	685.8	642.4
52.5°	8201.1	7986.7	6813.0	2677.7	1198.8	789.2	724.5	785.3	737.0	686.8	639.5
55°	8523.8	8297.7	7198.4	2784.9	1163.0	761.2	703.2	763.1	734.1	682.0	631.7
57.5°	8749.8	8580.8	7470.9	2856.4	1111.8	725.4	683.9	741.9	721.6	663.6	608.6
58°	8760.4	8595.2	7510.5	2872.8	1099.3	718.7	679.1	732.2	715.8	655.9	600.8
60°	8638.7	8496.7	7518.2	2849.6	1027.8	684.9	654.0	692.6	684.9	610.5	559.3
62.5°	8196.3	8044.6	7206.2	2661.3	933.1	643.3	615.3	639.5	622.1	546.7	499.4
65°	7567.5	7288.3	6564.8	2365.7	865.5	598.9	563.2	565.1	546.7	492.6	451.1
67.5°	6729.9	6417.9	5558.2	1993.8	814.3	549.6	501.3	496.5	474.3	439.5	405.7
70°	5699.3	5485.8	4516.9	1621.9	757.3	495.5	431.8	428.9	415.4	389.3	359.3
72.5°	4619.3	4347.9	3647.5	1298.3	687.8	443.4	367.1	372.9	355.5	337.1	310.1
75°	3408.9	3231.2	2819.7	1041.3	594.1	386.4	306.2	308.1	300.4	281.1	259.8
77.5°	2244.9	2191.8	2017.0	683.9	456.9	307.2	250.2	252.1	246.3	228.9	206.7
80°	1510.8	1475.0	1366.9	440.5	305.2	222.2	193.2	195.1	194.2	175.8	145.9
82.5°	931.2	915.7	881.0	297.5	211.5	159.4	127.5	133.3	143.9	123.6	99.5
85°	439.5	440.5	532.3	162.3	124.6	102.4	69.6	74.4	74.4	74.4	56.0
87.5°	57.0	59.9	73.4	68.6	45.4	38.6	25.1	21.3	18.4	24.1	17.4
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°	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6
2.5°	3187.7	3168.4	3126.9	3117.2	3111.4	3127.8	3084.4	3096.0	3076.6	3130.7	3122.0
5°	2669.0	2670.9	2704.7	2726.9	2734.7	2726.9	2698.0	2647.7	2609.1	2593.6	2597.5
7.5°	2300.0	2333.8	2391.8	2456.5	2515.4	2532.8	2516.4	2420.7	2316.4	2250.7	2229.5
10°	2177.3	2222.7	2289.4	2340.6	2392.7	2434.3	2443.0	2368.6	2244.9	2089.4	2028.5
12.5°	2184.1	2245.9	2309.6	2326.1	2321.2	2337.7	2329.9	2317.4	2236.2	2038.2	1936.8
15°	2120.3	2193.7	2238.2	2229.5	2214.0	2199.5	2179.2	2147.4	2118.4	1979.3	1867.2
17.5°	1973.5	2048.8	2085.5	2088.4	2088.4	2084.6	2035.3	2023.7	2019.9	1952.2	1883.7
20°	2000.5	2042.1	2025.7	1998.6	2006.3	2032.4	2003.4	1997.6	2019.9	2049.8	2037.2
22.5°	2016.0	2001.5	1877.9	1758.1	1731.0	1812.2	1828.6	1893.3	1983.1	2091.3	2161.9
25°	1920.4	1803.5	1582.3	1447.0	1370.7	1446.1	1544.6	1664.4	1798.6	1937.7	2019.9
27.5°	1605.5	1516.6	1358.2	1236.4	1169.8	1181.4	1265.4	1374.6	1499.2	1592.9	1652.8
30°	1209.4	1169.8	1087.7	1046.2	1005.6	995.9	1031.7	1073.2	1128.3	1139.9	1155.3
32.5°	890.6	884.8	889.7	876.1	868.4	867.4	856.8	866.5	872.3	879.0	865.5
35°	805.6	797.9	784.4	780.5	775.7	777.6	772.8	768.0	771.8	777.6	781.5
37.5°	762.2	750.6	731.2	724.5	724.5	727.4	719.7	717.7	724.5	742.8	752.5
40°	728.3	714.8	692.6	683.9	689.7	697.4	686.8	682.9	699.4	718.7	734.1
42.5°	696.5	685.8	664.6	654.9	659.8	674.3	658.8	655.9	677.1	698.4	716.8
45°	669.4	658.8	639.5	634.6	636.6	650.1	639.5	639.5	659.8	682.9	699.4
47.5°	648.2	634.6	622.1	618.2	620.2	627.9	626.0	626.0	645.3	669.4	685.8
50°	626.9	615.3	598.9	600.8	605.7	616.3	615.3	618.2	637.5	667.5	684.9
52.5°	617.3	599.9	581.5	583.4	597.9	610.5	606.6	609.5	631.7	687.8	712.9
55°	606.6	583.4	562.2	565.1	581.5	599.9	595.0	598.9	625.0	701.3	736.1
57.5°	586.3	559.3	536.1	538.0	562.2	581.5	573.8	578.6	609.5	686.8	723.5
58°	577.7	554.5	532.3	533.2	556.4	577.7	569.0	572.8	604.7	682.9	717.7
60°	540.9	527.4	508.1	509.1	531.3	549.6	544.8	548.7	579.6	654.9	681.0
62.5°	490.7	483.0	478.2	478.2	491.7	509.1	513.9	518.7	546.7	592.1	615.3
65°	436.6	436.6	437.6	437.6	446.3	468.5	471.4	484.0	510.0	532.3	549.6
67.5°	399.9	398.0	399.9	395.1	398.9	412.5	427.0	438.6	465.6	481.1	486.9
70°	352.6	351.6	352.6	345.8	350.6	362.2	371.9	391.2	419.2	430.8	433.7
72.5°	306.2	306.2	308.1	303.3	303.3	315.9	322.6	343.9	370.0	376.7	377.7
75°	257.9	260.8	260.8	254.1	256.0	263.7	272.4	289.8	313.9	318.8	318.8
77.5°	204.8	215.4	215.4	208.7	211.5	212.5	224.1	232.8	251.2	253.1	245.4
80°	148.8	159.4	168.1	162.3	167.1	161.3	168.1	173.9	192.2	183.5	171.0
82.5°	106.3	114.0	120.7	121.7	116.9	106.3	115.0	115.9	124.6	113.0	106.3
85°	58.9	65.7	74.4	70.5	62.8	56.0	58.9	60.9	59.9	57.0	53.1
87.5°	15.5	16.4	18.4	13.5	12.6	10.6	14.5	14.5	16.4	17.4	16.4
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°	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6
2.5°	3128.8	3171.3	3263.1	3332.6	3417.6	3521.0	3642.7	3765.4	3897.7	3939.2	3997.2
5°	2588.8	2695.1	2739.5	2866.0	2991.6	3180.0	3380.9	3613.7	3868.7	3991.4	4109.3
7.5°	2212.1	2269.1	2315.4	2408.2	2558.9	2787.8	3039.9	3330.7	3692.0	3870.7	4043.6
10°	2009.2	2015.0	2072.0	2187.0	2318.3	2520.2	2758.8	3084.4	3487.2	3704.5	3907.4
12.5°	1875.0	1849.8	1911.7	2031.4	2180.2	2366.6	2585.9	2896.0	3339.4	3562.5	3807.9
15°	1757.1	1717.5	1763.9	1886.5	2033.4	2252.7	2488.4	2816.8	3281.4	3541.3	3813.7
17.5°	1760.0	1650.9	1667.3	1770.6	1916.5	2139.6	2425.6	2813.9	3369.3	3668.8	3991.4
20°	1977.4	1802.5	1728.1	1747.4	1888.5	2131.9	2454.5	2949.1	3658.1	4094.8	4439.6
22.5°	2190.8	2085.5	1965.8	1926.2	2003.4	2258.5	2639.0	3268.9	4286.0	4943.9	5566.9
25°	2116.5	2206.3	2176.3	2120.3	2137.7	2349.3	2764.6	3531.6	4773.8	5514.8	6100.1
27.5°	1693.4	1856.6	1889.4	1888.5	1895.2	2069.1	2486.4	3354.8	4834.7	5623.9	6183.2
30°	1190.1	1204.6	1222.0	1255.8	1286.7	1442.2	1945.5	2945.3	4807.7	5673.2	6233.4
32.5°	858.8	878.1	902.2	948.6	1022.0	1220.0	1702.0	2814.9	4950.6	5877.0	6380.3
35°	785.3	807.6	830.7	883.9	953.4	1137.0	1605.5	2760.8	5185.4	6207.4	6644.0
37.5°	762.2	787.3	807.6	846.2	902.2	1077.1	1517.5	2724.1	5425.9	6557.0	6997.5
40°	745.7	774.7	791.1	822.0	860.7	1022.0	1439.3	2695.1	5658.7	6876.8	7281.5
42.5°	731.2	761.2	782.4	804.7	836.5	972.7	1369.8	2666.1	5860.6	7186.9	7564.6
45°	713.9	751.5	778.6	796.0	824.0	931.2	1316.6	2642.9	6090.5	7462.2	7850.5
47.5°	699.4	740.9	774.7	795.0	805.6	902.2	1274.1	2674.8	6366.7	7750.0	8116.1
50°	700.3	739.9	782.4	814.3	786.3	878.1	1248.0	2801.3	6726.1	8092.0	8325.7
52.5°	731.2	779.5	813.4	821.1	759.3	849.1	1234.5	3022.5	7151.1	8394.3	8537.3
55°	766.0	816.2	853.0	848.1	744.8	812.4	1231.6	3258.2	7616.7	8746.9	8812.6
57.5°	753.5	826.9	882.9	857.8	745.7	776.6	1219.1	3448.5	8006.0	9010.6	9085.0
58°	749.6	823.0	886.8	855.9	742.8	766.0	1216.2	3465.0	8060.1	9029.0	9123.6
60°	711.9	789.2	883.9	841.4	726.4	737.0	1184.3	3518.1	8045.6	8934.3	9146.8
62.5°	643.3	707.1	817.2	770.8	676.2	698.4	1112.8	3452.4	7653.4	8478.4	8807.8
65°	566.1	613.4	686.8	678.1	604.7	658.8	1015.2	3192.5	6868.1	7738.4	8085.2
67.5°	508.1	546.7	593.1	580.6	543.8	605.7	909.9	2753.0	5987.1	6849.7	7286.4
70°	449.2	479.1	502.3	493.6	482.0	553.5	816.2	2234.3	5142.9	6005.5	6428.6
72.5°	389.3	417.3	436.6	424.1	417.3	498.4	739.9	1733.9	4061.9	4954.5	5498.3
75°	325.5	353.5	367.1	352.6	348.7	439.5	626.9	1295.4	3047.7	3819.5	4288.9
77.5°	252.1	282.1	299.5	294.6	296.6	361.3	506.2	886.8	2179.2	2603.3	3097.9
80°	176.8	209.6	221.2	216.4	229.9	275.3	357.4	563.2	1503.1	1689.5	2038.2
82.5°	109.2	140.1	142.0	146.8	156.5	203.8	269.5	342.9	943.8	975.6	1228.7
85°	55.1	66.7	71.5	79.2	87.9	124.6	153.6	212.5	607.6	459.8	686.8
87.5°	18.4	19.3	23.2	29.0	35.7	51.2	65.7	86.9	150.7	83.1	212.5
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: P452351

CATALOG NUMBER: GALN-SA3B-740-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6	3674.6
2.5°	4114.1	4196.2	4256.1	4311.1	4258.0	4253.2	4201.0	4117.0	4082.2	4082.2
5°	4356.5	4548.8	4704.3	4803.8	4761.3	4658.9	4489.9	4274.4	4158.5	4138.2
7.5°	4423.2	4802.8	5091.7	5194.0	5122.6	4896.5	4572.9	4209.7	4043.6	4006.9
10°	4382.6	4876.2	5300.3	5462.6	5363.1	5021.1	4579.7	4134.4	3929.6	3887.1
12.5°	4340.1	4885.9	5338.9	5573.7	5509.0	5121.6	4629.0	4085.1	3848.4	3787.6
15°	4371.0	4889.8	5291.6	5534.1	5575.6	5242.3	4710.1	4120.9	3832.0	3767.3
17.5°	4566.2	4963.2	5224.0	5420.1	5565.9	5406.6	4941.0	4291.8	3978.9	3898.7
20°	4973.8	5139.0	5262.6	5414.3	5649.0	5741.8	5413.3	4761.3	4391.3	4320.8
22.5°	6154.2	6124.3	5871.2	5868.3	6208.3	6580.2	6558.0	5715.7	5159.3	5101.3
25°	6596.6	6457.5	6091.4	6002.6	6152.3	6726.1	6643.0	5910.8	5396.9	5255.9
27.5°	6423.7	6078.9	5838.4	5818.1	5768.8	6310.7	6510.7	5990.0	5480.0	5342.8
30°	6413.1	5906.0	5562.1	5602.7	5650.0	6167.8	6584.1	6238.3	5692.5	5545.7
32.5°	6439.2	5930.1	5582.4	5590.1	5731.1	6189.0	6665.2	6508.7	5971.7	5824.8
35°	6544.5	6067.3	5711.8	5693.5	5913.7	6328.1	6803.4	6933.8	6353.2	6186.1
37.5°	6714.5	6340.7	5948.5	5943.6	6263.4	6579.3	6975.3	7362.7	6732.8	6553.2
40°	6964.7	6660.4	6369.6	6343.6	6738.6	6987.9	7198.4	7819.6	7174.3	6943.4
42.5°	7267.0	7043.9	6925.1	7028.4	7408.1	7446.7	7546.2	8241.7	7550.1	7281.5
45°	7547.2	7536.5	7701.7	7976.1	8197.3	7965.4	7909.4	8524.7	7841.8	7550.1
47.5°	7880.4	8168.3	8666.7	9068.6	9300.4	8569.2	8219.5	8709.2	8054.3	7785.8
50°	8218.5	8924.6	9720.6	10280.9	10330.1	9225.1	8433.0	8883.1	8247.5	7968.3
52.5°	8574.0	9528.4	10588.1	11239.1	11143.5	9796.0	8639.7	9001.0	8446.5	8201.1
55°	8883.1	9898.3	11073.0	11698.0	11557.9	10143.7	8862.8	9128.5	8730.5	8523.8
57.5°	9056.0	9929.3	10952.2	11498.0	11346.3	10076.1	8965.2	9223.1	8912.1	8749.8
58°	9081.1	9887.7	10845.0	11382.1	11227.5	10019.1	8964.3	9219.3	8923.7	8760.4
60°	9058.9	9618.2	10446.1	10924.2	10761.9	9661.7	8927.5	9146.8	8776.9	8638.7
62.5°	8853.2	9150.7	9757.3	10105.1	10058.7	9103.4	8776.9	8873.4	8329.6	8196.3
65°	8582.7	8513.1	8875.4	9121.7	9156.5	8685.1	8627.1	8282.3	7755.8	7567.5
67.5°	8254.3	7790.6	7789.6	7929.7	7987.6	8041.7	8315.1	7639.9	6928.9	6729.9
70°	7696.9	6676.8	6369.6	6534.8	6486.5	6943.4	7757.7	6737.7	5932.1	5699.3
72.5°	6674.9	5298.4	4806.7	5019.2	4897.5	5445.2	6787.9	5544.7	4905.2	4619.3
75°	5410.4	3963.4	3456.3	3651.4	3576.0	4130.5	5648.1	4027.2	3518.1	3408.9
77.5°	4201.0	2871.8	2577.2	2550.2	2606.2	3073.7	4143.1	2719.2	2319.3	2244.9
80°	2698.9	2055.6	2073.0	2038.2	2067.2	1937.7	2515.4	1734.9	1570.7	1510.8
82.5°	1776.4	1432.5	1707.8	1576.5	1497.3	1303.1	1649.9	1136.0	964.0	931.2
85°	1210.4	1054.8	960.2	734.1	864.5	1003.6	1237.4	611.5	484.9	439.5
87.5°	546.7	367.1	269.5	166.1	262.7	303.3	600.8	71.5	55.1	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)