

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: P453163

Luminaire Tested: **GALN-SA4A-830-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453163  
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-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 12392 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

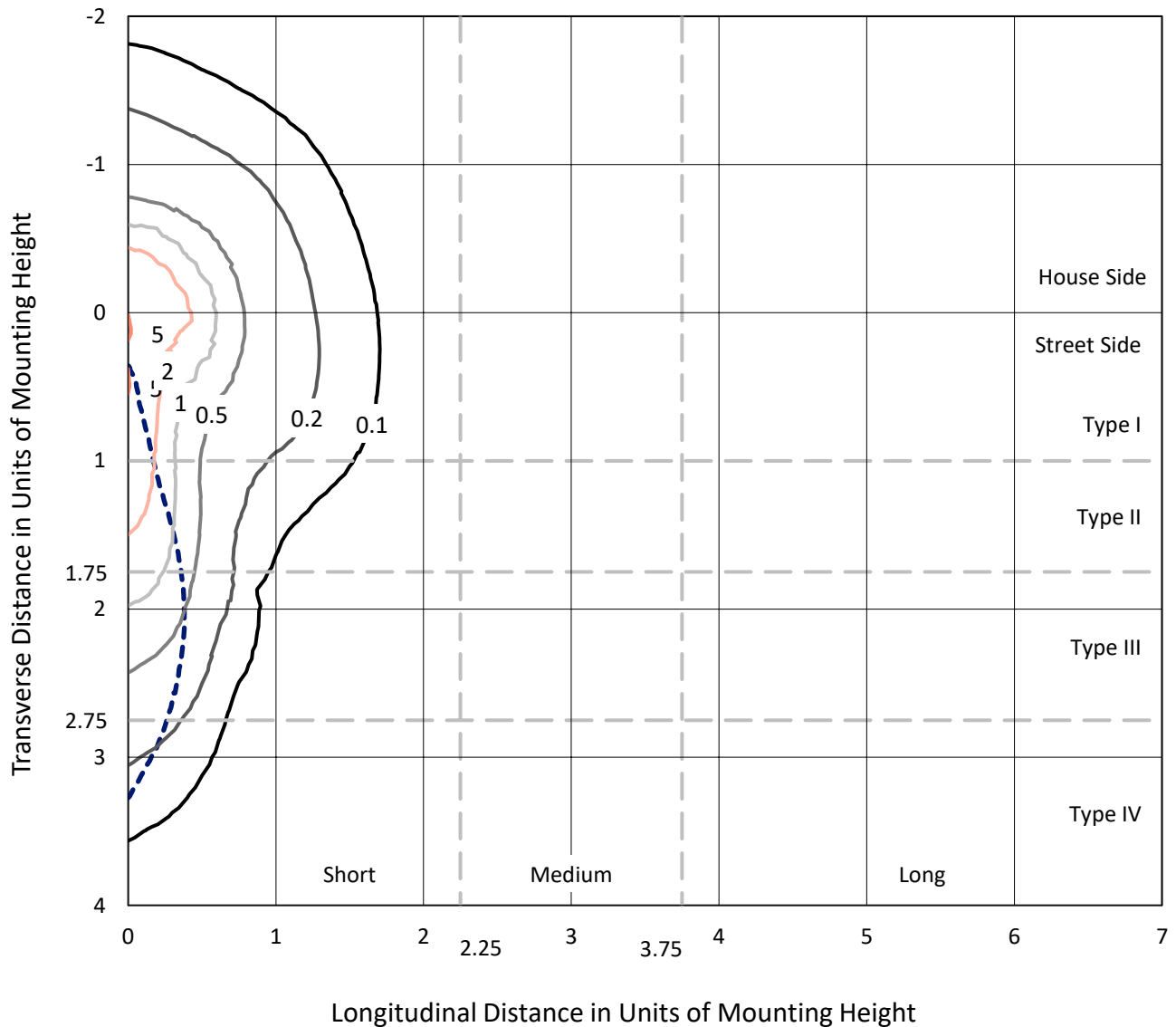
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

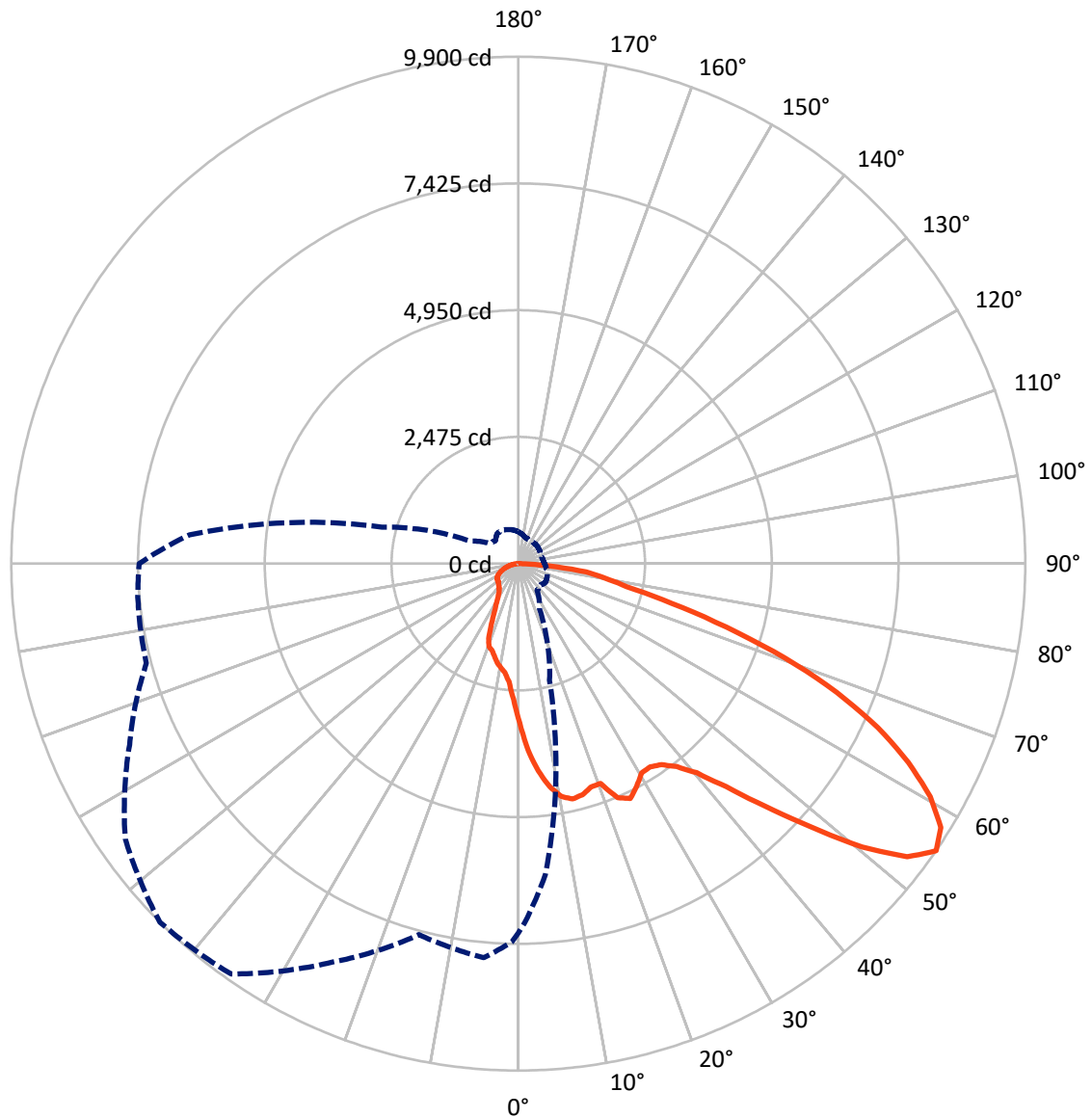
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2710.7	0.0	2710.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	9681.3	0.0	9681.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	12392.0	0.0	12392.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.6	2.1
10°-20°	699.3	5.6
20°-30°	1208.0	9.7
30°-40°	1403.9	11.3
40°-50°	1958.7	15.8
50°-60°	2657.8	21.4
60°-70°	2528.6	20.4
70°-80°	1366.0	11.0
80°-90°	306.1	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°	12392.0	100.0
0°-180°	12392.0	100.0

**Coefficient of Utilization**



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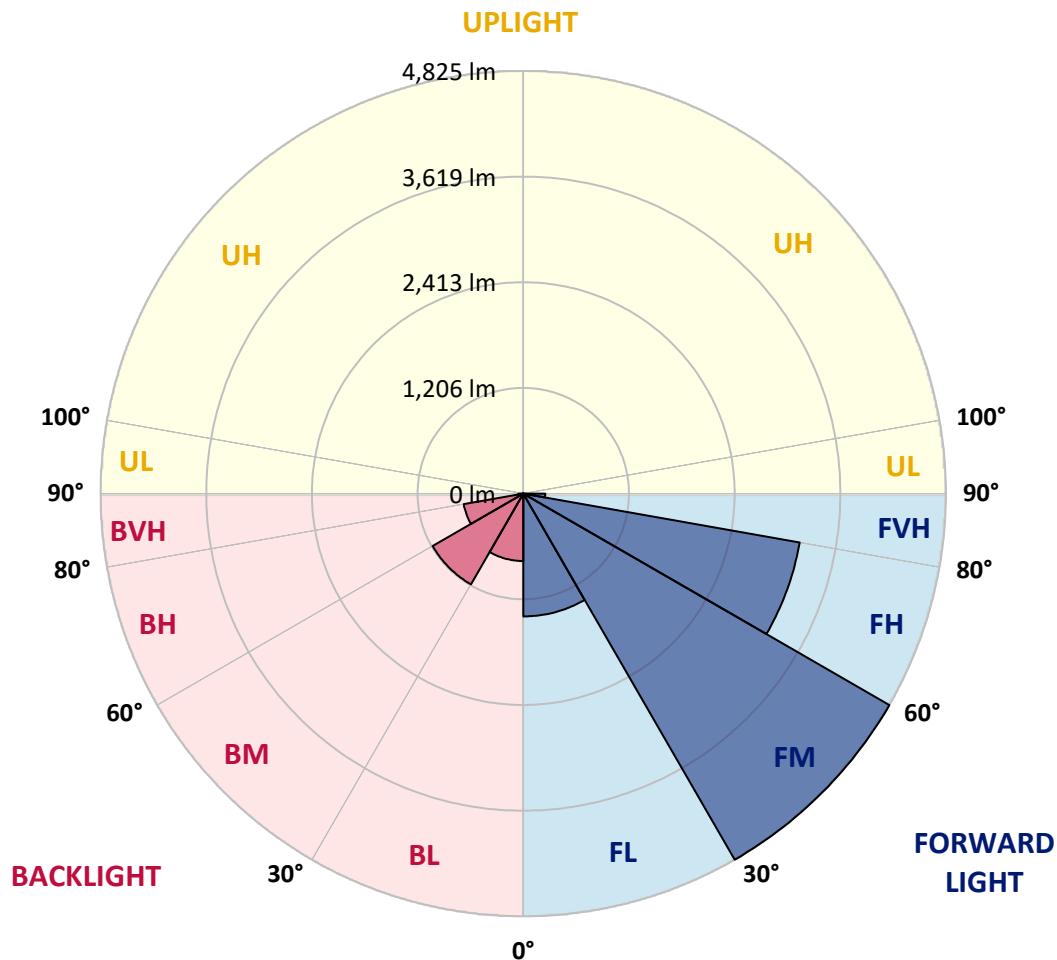
CATALOG NUMBER: GALN-SA4A-830-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1401.6	11.3			
FM	(30°-60°)	4825.2	38.9			
FH	(60°-80°)	3204.4	25.9			G2/5000
FVH	(80°-90°)	250.2	2.0			G3/500
BL	(0°-30°)	769.3	6.2	B2/1000		
BM	(30°-60°)	1195.2	9.6	B2/2500		
BH	(60°-80°)	690.2	5.6	B2/1000		G2/1000
BVH	(80°-90°)	55.9	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°	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9
2.5°	3454.9	3441.8	3405.0	3308.6	3211.3	3112.4	3036.3	2941.5	2842.6	2789.4	2721.6
5°	3502.3	3487.6	3401.0	3183.5	2986.5	2779.6	2614.5	2469.8	2410.9	2324.3	2254.8
7.5°	3391.1	3384.6	3254.6	2942.3	2672.5	2401.9	2214.7	2098.6	1993.2	1953.9	1962.1
10°	3289.8	3263.6	3100.9	2693.0	2378.2	2158.3	2024.2	1910.6	1836.2	1816.6	1820.7
12.5°	3205.6	3170.4	2978.3	2525.4	2249.9	2074.1	1903.2	1784.7	1716.8	1735.6	1799.4
15°	3188.4	3141.0	2926.8	2468.1	2179.6	1953.1	1765.9	1629.3	1578.7	1619.5	1721.7
17.5°	3299.6	3239.9	3015.1	2486.9	2112.5	1829.6	1599.9	1443.8	1401.3	1466.7	1599.9
20°	3656.8	3568.5	3290.6	2595.7	2106.0	1768.3	1503.4	1346.5	1364.5	1488.7	1627.7
22.5°	4317.4	4185.0	3772.9	2754.3	2140.3	1752.8	1483.8	1402.1	1501.0	1606.5	1698.0
25°	4448.2	4344.4	3859.6	2790.3	2133.0	1742.2	1539.4	1580.3	1690.7	1743.0	1711.1
27.5°	4521.8	4403.3	3853.9	2612.0	1907.3	1580.3	1471.6	1539.4	1567.2	1516.5	1429.9
30°	4693.5	4570.0	3951.2	2424.8	1570.5	1172.3	1027.6	999.8	1018.7	1028.5	997.4
32.5°	4929.7	4807.9	4134.3	2302.2	1357.9	969.6	827.3	788.1	779.1	768.5	756.2
35°	5235.5	5048.3	4314.1	2223.7	1270.5	896.8	766.0	735.8	723.5	708.8	695.7
37.5°	5546.2	5350.0	4541.4	2141.1	1212.4	846.2	725.2	711.3	690.0	674.5	655.7
40°	5876.5	5656.5	4748.3	2069.2	1156.0	813.4	695.7	694.1	666.3	648.3	626.2
42.5°	6162.6	5936.1	4933.0	2025.0	1112.7	779.1	677.7	682.6	654.0	627.1	598.4
45°	6389.9	6167.5	5103.9	2025.0	1077.5	744.8	674.5	671.2	642.6	609.1	576.4
47.5°	6589.3	6359.6	5270.7	2076.5	1055.4	716.2	656.5	662.2	632.8	590.3	558.4
50°	6743.9	6541.1	5495.5	2156.7	1033.4	693.3	633.6	664.7	624.6	580.5	543.7
52.5°	6940.9	6759.4	5766.1	2266.2	1014.6	667.9	613.2	664.7	623.8	581.3	541.2
55°	7213.9	7022.6	6092.3	2357.0	984.3	644.2	595.2	645.9	621.3	577.2	534.7
57.5°	7405.2	7262.2	6322.8	2417.5	941.0	614.0	578.8	627.9	610.7	561.6	515.0
58°	7414.2	7274.4	6356.3	2431.4	930.4	608.2	574.7	619.7	605.8	555.1	508.5
60°	7311.2	7191.0	6362.9	2411.7	869.9	579.6	553.5	586.2	579.6	516.7	473.4
62.5°	6936.8	6808.4	6098.8	2252.3	789.7	544.5	520.8	541.2	526.5	462.7	422.7
65°	6404.6	6168.3	5556.0	2002.1	732.5	506.9	476.6	478.3	462.7	416.9	381.8
67.5°	5695.8	5431.7	4704.1	1687.4	689.2	465.2	424.3	420.2	401.4	372.0	343.4
70°	4823.5	4642.8	3822.8	1372.6	640.9	419.4	365.4	363.0	351.5	329.5	304.1
72.5°	3909.5	3679.7	3087.0	1098.8	582.1	375.2	310.7	315.6	300.9	285.3	262.4
75°	2885.1	2734.7	2386.4	881.3	502.8	327.0	259.2	260.8	254.3	237.9	219.9
77.5°	1900.0	1855.0	1707.0	578.8	386.7	260.0	211.7	213.4	208.5	193.8	175.0
80°	1278.6	1248.4	1156.8	372.8	258.3	188.0	163.5	165.1	164.3	148.8	123.4
82.5°	788.1	775.0	745.6	251.8	179.0	134.9	107.9	112.8	121.8	104.6	84.2
85°	372.0	372.8	450.5	137.3	105.5	86.7	58.9	63.0	63.0	63.0	47.4
87.5°	48.2	50.7	62.1	58.0	38.4	32.7	21.3	18.0	15.5	20.4	14.7
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°	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9
2.5°	2697.9	2681.5	2646.4	2638.2	2633.3	2647.2	2610.4	2620.2	2603.9	2649.6	2642.3
5°	2258.9	2260.5	2289.1	2307.9	2314.4	2307.9	2283.4	2240.9	2208.2	2195.1	2198.4
7.5°	1946.6	1975.2	2024.2	2079.0	2128.9	2143.6	2129.7	2048.7	1960.5	1904.9	1886.9
10°	1842.7	1881.2	1937.6	1980.9	2025.0	2060.2	2067.5	2004.6	1900.0	1768.3	1716.8
12.5°	1848.4	1900.8	1954.7	1968.6	1964.5	1978.4	1971.9	1961.3	1892.6	1725.0	1639.2
15°	1794.5	1856.6	1894.2	1886.9	1873.8	1861.5	1844.4	1817.4	1792.9	1675.1	1580.3
17.5°	1670.2	1734.0	1765.1	1767.5	1767.5	1764.2	1722.5	1712.7	1709.5	1652.2	1594.2
20°	1693.1	1728.3	1714.4	1691.5	1698.0	1720.1	1695.6	1690.7	1709.5	1734.8	1724.2
22.5°	1706.2	1693.9	1589.3	1487.9	1465.0	1533.7	1547.6	1602.4	1678.4	1770.0	1829.6
25°	1625.3	1526.3	1339.1	1224.7	1160.1	1223.9	1307.2	1408.6	1522.3	1640.0	1709.5
27.5°	1358.7	1283.5	1149.5	1046.4	990.0	999.8	1071.0	1163.4	1268.8	1348.1	1398.8
30°	1023.6	990.0	920.5	885.4	851.1	842.9	873.1	908.3	954.9	964.7	977.8
32.5°	753.8	748.9	753.0	741.5	735.0	734.1	725.2	733.3	738.2	744.0	732.5
35°	681.8	675.3	663.8	660.6	656.5	658.1	654.0	649.9	653.2	658.1	661.4
37.5°	645.0	635.2	618.9	613.2	613.2	615.6	609.1	607.4	613.2	628.7	636.9
40°	616.4	605.0	586.2	578.8	583.7	590.3	581.3	578.0	591.9	608.2	621.3
42.5°	589.4	580.5	562.5	554.3	558.4	570.6	557.6	555.1	573.1	591.1	606.6
45°	566.6	557.6	541.2	537.1	538.8	550.2	541.2	541.2	558.4	578.0	591.9
47.5°	548.6	537.1	526.5	523.2	524.9	531.4	529.8	529.8	546.1	566.6	580.5
50°	530.6	520.8	506.9	508.5	512.6	521.6	520.8	523.2	539.6	564.9	579.6
52.5°	522.4	507.7	492.2	493.8	506.1	516.7	513.4	515.9	534.7	582.1	603.3
55°	513.4	493.8	475.8	478.3	492.2	507.7	503.6	506.9	528.9	593.5	623.0
57.5°	496.2	473.4	453.7	455.4	475.8	492.2	485.6	489.7	515.9	581.3	612.3
58°	488.9	469.3	450.5	451.3	470.9	488.9	481.5	484.8	511.8	578.0	607.4
60°	457.8	446.4	430.0	430.8	449.6	465.2	461.1	464.4	490.5	554.3	576.4
62.5°	415.3	408.8	404.7	404.7	416.1	430.8	434.9	439.0	462.7	501.1	520.8
65°	369.5	369.5	370.3	370.3	377.7	396.5	399.0	409.6	431.7	450.5	465.2
67.5°	338.5	336.8	338.5	334.4	337.6	349.1	361.4	371.2	394.1	407.1	412.0
70°	298.4	297.6	298.4	292.7	296.8	306.6	314.8	331.1	354.8	364.6	367.1
72.5°	259.2	259.2	260.8	256.7	256.7	267.3	273.1	291.0	313.1	318.8	319.7
75°	218.3	220.7	220.7	215.0	216.6	223.2	230.5	245.3	265.7	269.8	269.8
77.5°	173.3	182.3	182.3	176.6	179.0	179.9	189.7	197.0	212.6	214.2	207.7
80°	125.9	134.9	142.3	137.3	141.4	136.5	142.3	147.2	162.7	155.3	144.7
82.5°	89.9	96.5	102.2	103.0	98.9	89.9	97.3	98.1	105.5	95.7	89.9
85°	49.9	55.6	63.0	59.7	53.1	47.4	49.9	51.5	50.7	48.2	45.0
87.5°	13.1	13.9	15.5	11.4	10.6	9.0	12.3	12.3	13.9	14.7	13.9
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°	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9
2.5°	2648.0	2684.0	2761.6	2820.5	2892.4	2979.9	3082.9	3186.8	3298.8	3333.9	3383.0
5°	2191.0	2280.9	2318.5	2425.6	2531.9	2691.3	2861.4	3058.4	3274.2	3378.1	3477.8
7.5°	1872.2	1920.4	1959.6	2038.1	2165.7	2359.4	2572.8	2818.9	3124.6	3275.9	3422.2
10°	1700.5	1705.4	1753.6	1850.9	1962.1	2133.0	2334.9	2610.4	2951.3	3135.3	3306.9
12.5°	1586.8	1565.6	1617.9	1719.3	1845.2	2003.0	2188.5	2451.0	2826.2	3015.1	3222.7
15°	1487.1	1453.6	1492.8	1596.6	1720.9	1906.5	2106.0	2383.9	2777.2	2997.1	3227.6
17.5°	1489.6	1397.2	1411.1	1498.5	1622.0	1810.8	2052.8	2381.5	2851.6	3105.0	3378.1
20°	1673.5	1525.5	1462.6	1478.9	1598.3	1804.3	2077.4	2495.9	3096.0	3465.5	3757.4
22.5°	1854.2	1765.1	1663.7	1630.2	1695.6	1911.4	2233.5	2766.5	3627.4	4184.2	4711.5
25°	1791.2	1867.3	1841.9	1794.5	1809.2	1988.2	2339.8	2988.9	4040.3	4667.3	5162.7
27.5°	1433.1	1571.3	1599.1	1598.3	1604.0	1751.2	2104.3	2839.3	4091.8	4759.7	5233.0
30°	1007.2	1019.5	1034.2	1062.8	1089.0	1220.6	1646.5	2492.7	4068.9	4801.4	5275.6
32.5°	726.8	743.1	763.6	802.8	865.0	1032.5	1440.5	2382.3	4189.9	4973.9	5399.8
35°	664.7	683.5	703.1	748.0	806.9	962.2	1358.7	2336.5	4388.5	5253.5	5623.0
37.5°	645.0	666.3	683.5	716.2	763.6	911.6	1284.3	2305.5	4592.1	5549.4	5922.2
40°	631.1	655.7	669.6	695.7	728.4	865.0	1218.1	2280.9	4789.1	5820.0	6162.6
42.5°	618.9	644.2	662.2	681.0	708.0	823.3	1159.3	2256.4	4960.0	6082.5	6402.1
45°	604.2	636.0	658.9	673.6	697.4	788.1	1114.3	2236.8	5154.6	6315.5	6644.1
47.5°	591.9	627.1	655.7	672.8	681.8	763.6	1078.3	2263.8	5388.4	6559.1	6868.9
50°	592.7	626.2	662.2	689.2	665.5	743.1	1056.3	2370.9	5692.5	6848.5	7046.3
52.5°	618.9	659.8	688.4	694.9	642.6	718.6	1044.8	2558.1	6052.2	7104.4	7225.4
55°	648.3	690.8	721.9	717.8	630.3	687.5	1042.4	2757.5	6446.3	7402.8	7458.4
57.5°	637.7	699.8	747.2	726.0	631.1	657.3	1031.7	2918.6	6775.7	7626.0	7688.9
58°	634.4	696.5	750.5	724.3	628.7	648.3	1029.3	2932.5	6821.5	7641.5	7721.6
60°	602.5	667.9	748.0	712.1	614.8	623.8	1002.3	2977.5	6809.3	7561.4	7741.3
62.5°	544.5	598.4	691.6	652.4	572.3	591.1	941.8	2921.9	6477.3	7175.5	7454.3
65°	479.1	519.1	581.3	573.9	511.8	557.6	859.2	2702.0	5812.7	6549.3	6842.8
67.5°	430.0	462.7	502.0	491.3	460.3	512.6	770.1	2330.0	5067.1	5797.1	6166.7
70°	380.2	405.5	425.1	417.8	408.0	468.4	690.8	1891.0	4352.6	5082.6	5440.7
72.5°	329.5	353.2	369.5	358.9	353.2	421.8	626.2	1467.5	3437.7	4193.1	4653.4
75°	275.5	299.2	310.7	298.4	295.1	372.0	530.6	1096.3	2579.3	3232.5	3629.9
77.5°	213.4	238.7	253.4	249.3	251.0	305.8	428.4	750.5	1844.4	2203.3	2621.8
80°	149.6	177.4	187.2	183.1	194.6	233.0	302.5	476.6	1272.1	1429.9	1725.0
82.5°	92.4	118.5	120.2	124.3	132.4	172.5	228.1	290.2	798.7	825.7	1039.9
85°	46.6	56.4	60.5	67.0	74.4	105.5	130.0	179.9	514.2	389.1	581.3
87.5°	15.5	16.4	19.6	24.5	30.2	43.3	55.6	73.6	127.5	70.3	179.9
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: P453163

CATALOG NUMBER: GALN-SA4A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9	3109.9
2.5°	3481.9	3551.4	3602.1	3648.7	3603.7	3599.6	3555.5	3484.3	3454.9	3454.9
5°	3687.1	3849.8	3981.4	4065.6	4029.6	3943.0	3799.9	3617.6	3519.5	3502.3
7.5°	3743.5	4064.8	4309.2	4395.9	4335.4	4144.1	3870.2	3562.8	3422.2	3391.1
10°	3709.2	4126.9	4485.8	4623.2	4539.0	4249.6	3875.9	3499.1	3325.7	3289.8
12.5°	3673.2	4135.1	4518.5	4717.2	4662.4	4334.6	3917.6	3457.4	3257.1	3205.6
15°	3699.4	4138.4	4478.5	4683.7	4718.8	4436.8	3986.3	3487.6	3243.2	3188.4
17.5°	3864.5	4200.5	4421.2	4587.2	4710.6	4575.8	4181.7	3632.3	3367.4	3299.6
20°	4209.5	4349.3	4453.9	4582.3	4781.0	4859.4	4581.5	4029.6	3716.5	3656.8
22.5°	5208.5	5183.2	4969.0	4966.5	5254.3	5569.1	5550.3	4837.4	4366.5	4317.4
25°	5583.0	5465.2	5155.4	5080.2	5206.9	5692.5	5622.2	5002.5	4567.6	4448.2
27.5°	5436.6	5144.8	4941.2	4924.0	4882.3	5341.0	5510.2	5069.5	4637.9	4521.8
30°	5427.6	4998.4	4707.4	4741.7	4781.8	5220.0	5572.3	5279.6	4817.7	4693.5
32.5°	5449.7	5018.9	4724.5	4731.1	4850.4	5238.0	5641.0	5508.6	5054.0	4929.7
35°	5538.8	5134.9	4834.1	4818.6	5005.0	5355.7	5757.9	5868.3	5376.9	5235.5
37.5°	5682.7	5366.3	5034.4	5030.3	5300.9	5568.2	5903.4	6231.3	5698.2	5546.2
40°	5894.4	5636.9	5390.8	5368.8	5703.1	5914.1	6092.3	6618.0	6071.8	5876.5
42.5°	6150.3	5961.5	5860.9	5948.4	6269.7	6302.4	6386.6	6975.2	6389.9	6162.6
45°	6387.4	6378.4	6518.2	6750.4	6937.6	6741.4	6694.0	7214.8	6636.8	6389.9
47.5°	6669.5	6913.1	7334.9	7675.0	7871.2	7252.4	6956.4	7370.9	6816.6	6589.3
50°	6955.6	7553.2	8226.9	8701.0	8742.7	7807.5	7137.1	7518.1	6980.1	6743.9
52.5°	7256.5	8064.2	8961.0	9512.0	9431.1	8290.6	7312.0	7617.8	7148.5	6940.9
55°	7518.1	8377.3	9371.4	9900.4	9781.8	8584.9	7500.9	7725.7	7388.9	7213.9
57.5°	7664.4	8403.5	9269.2	9731.1	9602.8	8527.7	7587.6	7805.8	7542.6	7405.2
58°	7685.7	8368.3	9178.5	9633.0	9502.2	8479.5	7586.7	7802.6	7552.4	7414.2
60°	7666.9	8140.2	8840.8	9245.5	9108.2	8177.0	7555.7	7741.3	7428.1	7311.2
62.5°	7492.7	7744.5	8257.9	8552.2	8513.0	7704.5	7428.1	7509.9	7049.6	6936.8
65°	7263.8	7204.9	7511.5	7720.0	7749.4	7350.5	7301.4	7009.6	6564.0	6404.6
67.5°	6985.8	6593.4	6592.6	6711.2	6760.2	6806.0	7037.4	6465.9	5864.2	5695.8
70°	6514.1	5650.8	5390.8	5530.6	5489.8	5876.5	6565.6	5702.3	5020.5	4823.5
72.5°	5649.2	4484.2	4068.1	4247.9	4144.9	4608.5	5744.8	4692.7	4151.4	3909.5
75°	4579.0	3354.4	2925.1	3090.3	3026.5	3495.8	4780.1	3408.3	2977.5	2885.1
77.5°	3555.5	2430.5	2181.2	2158.3	2205.7	2601.4	3506.4	2301.4	1962.9	1900.0
80°	2284.2	1739.7	1754.4	1725.0	1749.5	1640.0	2128.9	1468.3	1329.3	1278.6
82.5°	1503.4	1212.4	1445.4	1334.2	1267.2	1102.9	1396.4	961.4	815.9	788.1
85°	1024.4	892.7	812.6	621.3	731.7	849.4	1047.3	517.5	410.4	372.0
87.5°	462.7	310.7	228.1	140.6	222.4	256.7	508.5	60.5	46.6	48.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)