

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: P453018

Luminaire Tested: **GALN-SA4A-730-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453018  
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-730-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 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: 14202 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

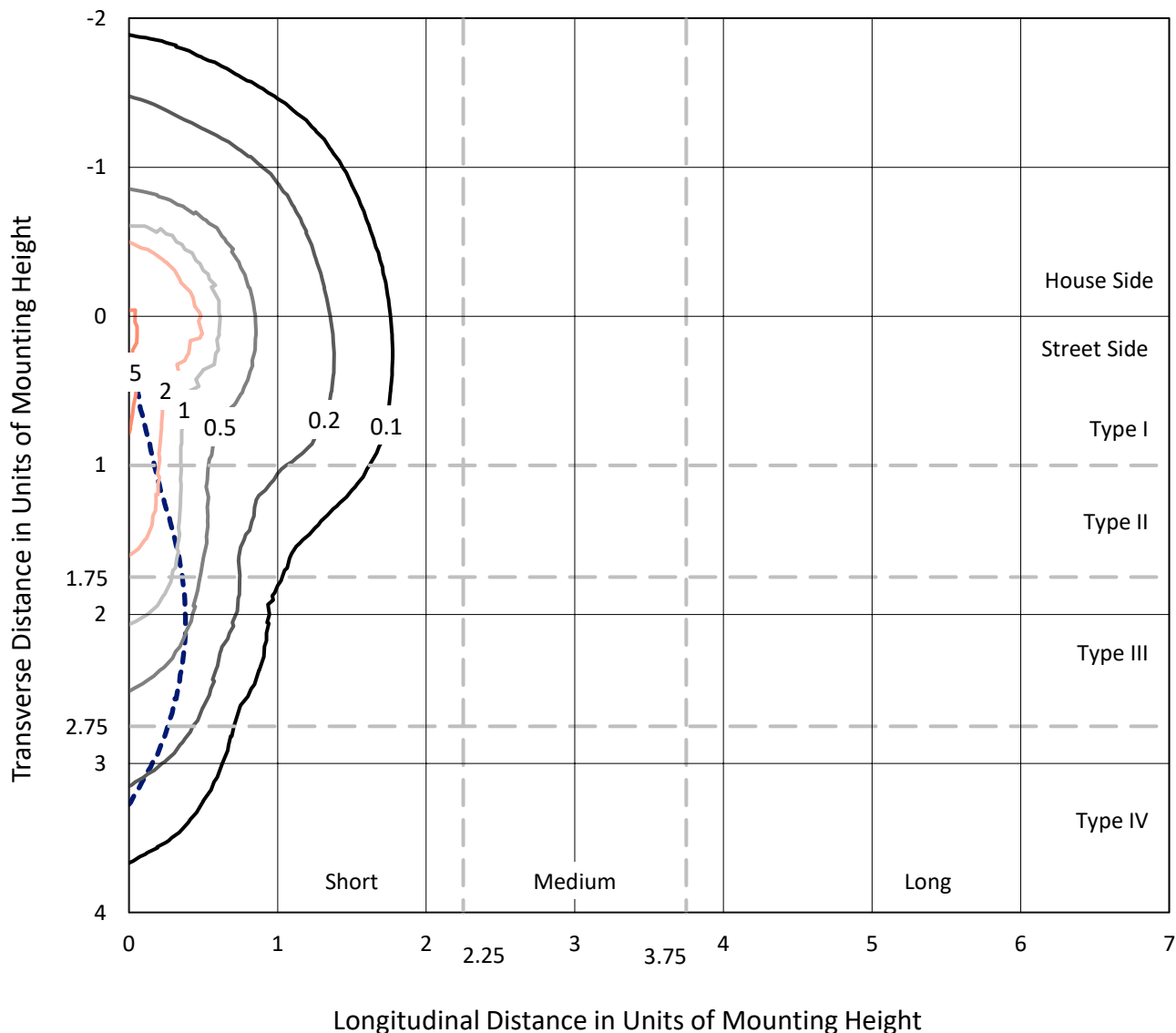
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

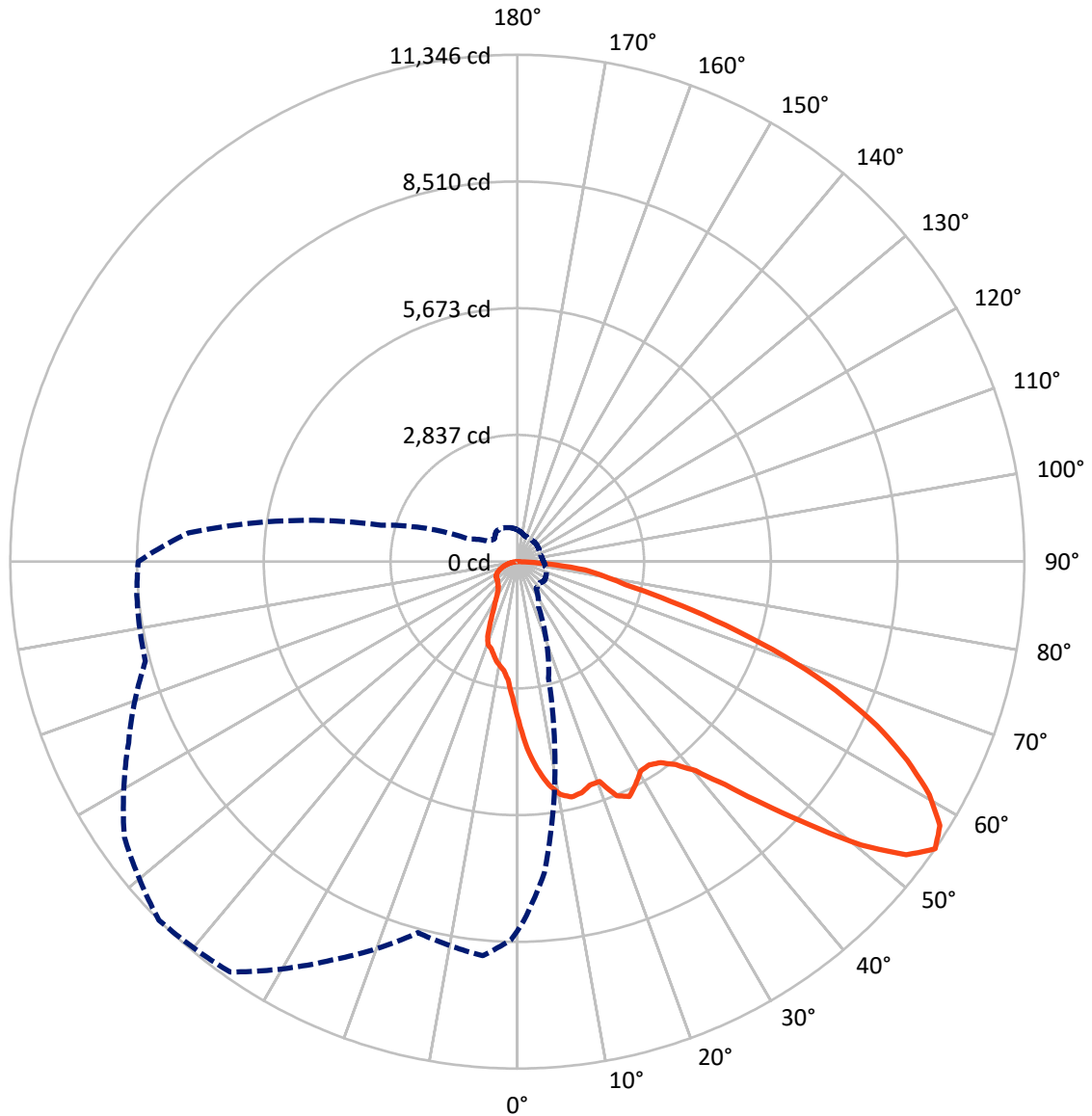
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3106.6	0.0	3106.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	11095.4	0.0	11095.4
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	14202.0	0.0	14202.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.1	2.1
10°-20°	801.4	5.6
20°-30°	1384.5	9.7
30°-40°	1609.0	11.3
40°-50°	2244.8	15.8
50°-60°	3046.0	21.4
60°-70°	2897.9	20.4
70°-80°	1565.5	11.0
80°-90°	350.9	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°	14202.0	100.0
0°-180°	14202.0	100.0

**Coefficient of Utilization**



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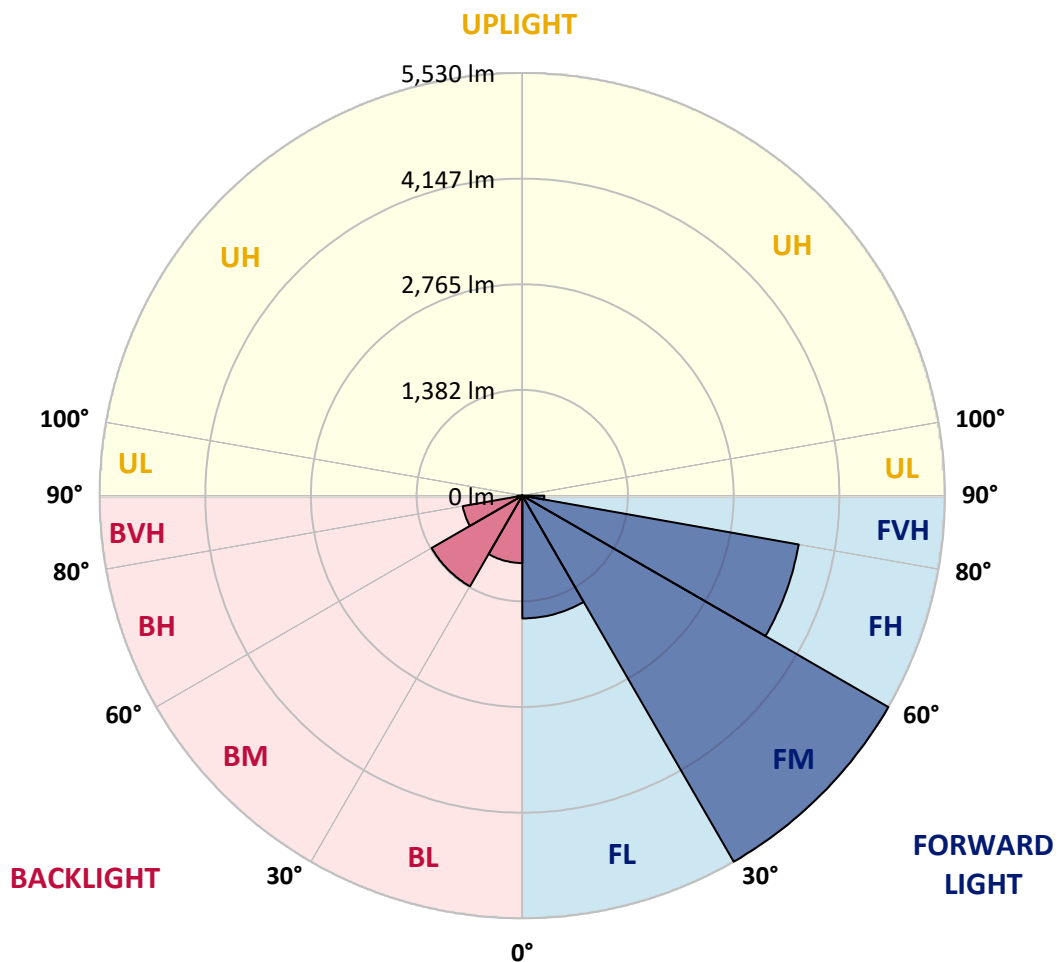
CATALOG NUMBER: GALN-SA4A-730-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1606.3	11.3			
FM	(30°-60°)	5530.0	38.9			
FH	(60°-80°)	3672.4	25.9			G2/5000
FVH	(80°-90°)	286.7	2.0			G3/500
BL	(0°-30°)	881.7	6.2	B2/1000		
BM	(30°-60°)	1369.8	9.6	B2/2500		
BH	(60°-80°)	791.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	64.1	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°	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1
2.5°	3959.5	3944.5	3902.4	3791.8	3680.3	3567.0	3479.8	3371.1	3257.8	3196.9	3119.1
5°	4013.9	3997.0	3897.7	3648.5	3422.7	3185.6	2996.4	2830.5	2763.1	2663.7	2584.1
7.5°	3886.5	3879.0	3730.0	3372.1	3062.9	2752.8	2538.2	2405.1	2284.3	2239.3	2248.7
10°	3770.3	3740.3	3553.8	3086.3	2725.6	2473.5	2319.9	2189.6	2104.4	2081.9	2086.6
12.5°	3673.8	3633.5	3413.3	2894.2	2578.5	2377.0	2181.2	2045.4	1967.6	1989.1	2062.2
15°	3654.1	3599.8	3354.3	2828.6	2497.9	2238.4	2023.8	1867.3	1809.2	1856.1	1973.2
17.5°	3781.5	3713.1	3455.5	2850.2	2421.1	2096.9	1833.6	1654.6	1605.9	1680.9	1833.6
20°	4191.0	4089.8	3771.2	2974.8	2413.6	2026.6	1723.0	1543.2	1563.8	1706.2	1865.5
22.5°	4948.0	4796.2	4324.0	3156.6	2452.9	2008.8	1700.6	1606.9	1720.2	1841.1	1946.0
25°	5097.9	4978.9	4423.3	3197.8	2444.5	1996.6	1764.3	1811.1	1937.6	1997.6	1961.0
27.5°	5182.3	5046.4	4416.8	2993.5	2185.9	1811.1	1686.5	1764.3	1796.1	1738.0	1638.7
30°	5379.0	5237.5	4528.3	2779.0	1799.9	1343.6	1177.7	1145.9	1167.4	1178.7	1143.1
32.5°	5649.8	5510.2	4738.1	2638.4	1556.3	1111.2	948.2	903.2	892.9	880.7	866.7
35°	6000.2	5785.6	4944.3	2548.5	1456.0	1027.8	877.9	843.3	829.2	812.3	797.3
37.5°	6356.2	6131.4	5204.7	2453.9	1389.5	969.7	831.1	815.1	790.8	773.0	751.4
40°	6734.8	6482.7	5441.8	2371.4	1324.8	932.3	797.3	795.5	763.6	743.0	717.7
42.5°	7062.7	6803.2	5653.5	2320.8	1275.2	892.9	776.7	782.4	749.6	718.6	685.8
45°	7323.2	7068.3	5849.4	2320.8	1234.9	853.6	773.0	769.2	736.4	698.0	660.5
47.5°	7551.8	7288.5	6040.5	2379.8	1209.6	820.8	752.4	758.9	725.2	676.5	639.9
50°	7728.9	7496.5	6298.2	2471.7	1184.3	794.5	726.1	761.7	715.8	665.2	623.1
52.5°	7954.7	7746.7	6608.3	2597.2	1162.8	765.5	702.7	761.7	714.9	666.2	620.3
55°	8267.6	8048.4	6982.1	2701.2	1128.1	738.3	682.1	740.2	712.1	661.5	612.8
57.5°	8486.9	8322.9	7246.3	2770.6	1078.4	703.6	663.4	719.6	699.9	643.7	590.3
58°	8497.2	8337.0	7284.8	2786.5	1066.2	697.1	658.7	710.2	694.3	636.2	582.8
60°	8379.1	8241.4	7292.3	2764.0	996.9	664.3	634.3	671.8	664.3	592.2	542.5
62.5°	7950.0	7802.9	6989.6	2581.3	905.1	624.0	596.8	620.3	603.4	530.3	484.4
65°	7340.0	7069.3	6367.5	2294.6	839.5	580.9	546.2	548.1	530.3	477.8	437.6
67.5°	6527.7	6225.1	5391.2	1933.9	789.8	533.1	486.3	481.6	460.0	426.3	393.5
70°	5528.0	5320.9	4381.2	1573.1	734.6	480.7	418.8	416.0	402.9	377.6	348.5
72.5°	4480.5	4217.2	3537.9	1259.3	667.1	430.1	356.0	361.7	344.8	327.0	300.8
75°	3306.5	3134.1	2734.9	1010.0	576.2	374.8	297.0	298.9	291.4	272.7	252.0
77.5°	2177.5	2125.9	1956.3	663.4	443.2	297.9	242.7	244.5	238.9	222.1	200.5
80°	1465.4	1430.7	1325.8	427.2	296.1	215.5	187.4	189.3	188.3	170.5	141.5
82.5°	903.2	888.2	854.5	288.6	205.2	154.6	123.7	129.3	139.6	119.9	96.5
85°	426.3	427.2	516.3	157.4	120.9	99.3	67.5	72.1	72.1	72.1	54.3
87.5°	55.3	58.1	71.2	66.5	44.0	37.5	24.4	20.6	17.8	23.4	16.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1
2.5°	3091.9	3073.2	3032.9	3023.5	3017.9	3033.8	2991.7	3002.9	2984.2	3036.6	3028.2
5°	2588.8	2590.7	2623.5	2645.0	2652.5	2645.0	2616.9	2568.2	2530.7	2515.7	2519.5
7.5°	2230.9	2263.7	2319.9	2382.7	2439.8	2456.7	2440.7	2348.0	2246.8	2183.1	2162.5
10°	2111.9	2155.9	2220.6	2270.2	2320.8	2361.1	2369.5	2297.4	2177.5	2026.6	1967.6
12.5°	2118.4	2178.4	2240.2	2256.2	2251.5	2267.4	2259.9	2247.7	2169.0	1977.0	1878.6
15°	2056.6	2127.8	2170.9	2162.5	2147.5	2133.4	2113.8	2082.8	2054.7	1919.8	1811.1
17.5°	1914.2	1987.3	2022.9	2025.7	2025.7	2021.9	1974.1	1962.9	1959.2	1893.6	1827.0
20°	1940.4	1980.7	1964.8	1938.5	1946.0	1971.3	1943.2	1937.6	1959.2	1988.2	1976.0
22.5°	1955.4	1941.4	1821.4	1705.2	1679.0	1757.7	1773.6	1836.4	1923.6	2028.5	2096.9
25°	1862.7	1749.3	1534.7	1403.5	1329.5	1402.6	1498.2	1614.4	1744.6	1879.5	1959.2
27.5°	1557.2	1471.0	1317.3	1199.3	1134.6	1145.9	1227.4	1333.3	1454.1	1545.0	1603.1
30°	1173.1	1134.6	1055.0	1014.7	975.4	966.0	1000.7	1040.9	1094.4	1105.6	1120.6
32.5°	863.9	858.2	862.9	849.8	842.3	841.4	831.1	840.4	846.1	852.6	839.5
35°	781.4	773.9	760.8	757.1	752.4	754.2	749.6	744.9	748.6	754.2	758.0
37.5°	739.3	728.0	709.3	702.7	702.7	705.5	698.0	696.2	702.7	720.5	729.9
40°	706.5	693.3	671.8	663.4	669.0	676.5	666.2	662.4	678.3	697.1	712.1
42.5°	675.5	665.2	644.6	635.3	639.9	654.0	639.0	636.2	656.8	677.4	695.2
45°	649.3	639.0	620.3	615.6	617.4	630.6	620.3	620.3	639.9	662.4	678.3
47.5°	628.7	615.6	603.4	599.6	601.5	609.0	607.1	607.1	625.9	649.3	665.2
50°	608.1	596.8	580.9	582.8	587.5	597.8	596.8	599.6	618.4	647.4	664.3
52.5°	598.7	581.8	564.0	565.9	580.0	592.2	588.4	591.2	612.8	667.1	691.5
55°	588.4	565.9	545.3	548.1	564.0	581.8	577.2	580.9	606.2	680.2	714.0
57.5°	568.7	542.5	520.0	521.9	545.3	564.0	556.5	561.2	591.2	666.2	701.8
58°	560.3	537.8	516.3	517.2	539.7	560.3	551.9	555.6	586.5	662.4	696.2
60°	524.7	511.6	492.8	493.8	515.3	533.1	528.4	532.2	562.2	635.3	660.5
62.5°	476.0	468.5	463.8	463.8	476.9	493.8	498.5	503.1	530.3	574.3	596.8
65°	423.5	423.5	424.4	424.4	432.9	454.4	457.2	469.4	494.7	516.3	533.1
67.5°	387.9	386.0	387.9	383.2	387.0	400.1	414.1	425.4	451.6	466.6	472.2
70°	342.0	341.0	342.0	335.4	340.1	351.4	360.7	379.5	406.6	417.9	420.7
72.5°	297.0	297.0	298.9	294.2	294.2	306.4	312.9	333.6	358.9	365.4	366.3
75°	250.2	253.0	253.0	246.4	248.3	255.8	264.2	281.1	304.5	309.2	309.2
77.5°	198.6	208.9	208.9	202.4	205.2	206.1	217.4	225.8	243.6	245.5	238.0
80°	144.3	154.6	163.0	157.4	162.1	156.5	163.0	168.7	186.5	178.0	165.8
82.5°	103.1	110.6	117.1	118.1	113.4	103.1	111.5	112.4	120.9	109.6	103.1
85°	57.2	63.7	72.1	68.4	60.9	54.3	57.2	59.0	58.1	55.3	51.5
87.5°	15.0	15.9	17.8	13.1	12.2	10.3	14.1	14.1	15.9	16.9	15.9
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°	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1
2.5°	3034.8	3076.0	3165.0	3232.5	3314.9	3415.2	3533.2	3652.2	3780.6	3820.9	3877.1
5°	2511.0	2614.1	2657.2	2779.9	2901.7	3084.4	3279.3	3505.1	3752.5	3871.5	3985.8
7.5°	2145.6	2200.9	2245.9	2335.8	2482.0	2704.0	2948.6	3230.6	3581.0	3754.3	3922.1
10°	1948.9	1954.5	2009.8	2121.2	2248.7	2444.5	2675.9	2991.7	3382.4	3593.2	3790.0
12.5°	1818.6	1794.3	1854.2	1970.4	2114.7	2295.5	2508.2	2809.0	3239.0	3455.5	3693.4
15°	1704.3	1665.9	1710.9	1829.9	1972.3	2185.0	2413.6	2732.1	3182.8	3434.8	3699.1
17.5°	1707.1	1601.2	1617.2	1717.4	1858.9	2075.3	2352.7	2729.3	3268.1	3558.5	3871.5
20°	1917.9	1748.3	1676.2	1694.9	1831.7	2067.8	2380.8	2860.5	3548.2	3971.7	4306.2
22.5°	2125.0	2022.9	1906.7	1868.3	1943.2	2190.6	2559.7	3170.6	4157.2	4795.3	5399.6
25°	2052.9	2140.0	2110.9	2056.6	2073.5	2278.7	2681.5	3425.5	4630.4	5349.0	5916.8
27.5°	1642.5	1800.8	1832.7	1831.7	1838.3	2006.9	2411.7	3254.0	4689.4	5454.9	5997.4
30°	1154.3	1168.4	1185.2	1218.0	1248.0	1398.9	1887.0	2856.8	4663.2	5502.7	6046.1
32.5°	832.9	851.7	875.1	920.1	991.3	1183.4	1650.9	2730.3	4801.9	5700.4	6188.5
35°	761.7	783.3	805.8	857.3	924.8	1102.8	1557.2	2677.8	5029.5	6020.8	6444.3
37.5°	739.3	763.6	783.3	820.8	875.1	1044.7	1471.9	2642.2	5262.8	6360.0	6787.2
40°	723.3	751.4	767.4	797.3	834.8	991.3	1396.1	2614.1	5488.6	6670.1	7062.7
42.5°	709.3	738.3	758.9	780.5	811.4	943.5	1328.6	2586.0	5684.5	6970.9	7337.2
45°	692.4	728.9	755.2	772.0	799.2	903.2	1277.1	2563.5	5907.5	7237.9	7614.6
47.5°	678.3	718.6	751.4	771.1	781.4	875.1	1235.8	2594.4	6175.4	7517.1	7872.2
50°	679.3	717.7	758.9	789.8	762.7	851.7	1210.5	2717.1	6524.0	7848.8	8075.5
52.5°	709.3	756.1	788.9	796.4	736.4	823.6	1197.4	2931.7	6936.2	8142.1	8280.7
55°	743.0	791.7	827.3	822.6	722.4	788.0	1194.6	3160.3	7387.8	8484.1	8547.8
57.5°	730.8	802.0	856.4	832.0	723.3	753.3	1182.4	3344.9	7765.4	8739.8	8812.0
58°	727.1	798.3	860.1	830.1	720.5	743.0	1179.6	3360.8	7817.9	8757.6	8849.5
60°	690.5	765.5	857.3	816.1	704.6	714.9	1148.7	3412.4	7803.8	8665.8	8872.0
62.5°	624.0	685.8	792.7	747.7	655.9	677.4	1079.4	3348.6	7423.4	8223.6	8543.1
65°	549.1	595.0	666.2	657.7	586.5	639.0	984.7	3096.6	6661.7	7505.9	7842.2
67.5°	492.8	530.3	575.3	563.1	527.5	587.5	882.6	2670.3	5807.2	6643.9	7067.4
70°	435.7	464.7	487.2	478.8	467.5	536.9	791.7	2167.2	4988.3	5825.0	6235.4
72.5°	377.6	404.8	423.5	411.3	404.8	483.5	717.7	1681.8	3939.9	4805.6	5333.1
75°	315.8	342.9	356.0	342.0	338.2	426.3	608.1	1256.4	2956.1	3704.7	4160.0
77.5°	244.5	273.6	290.5	285.8	287.6	350.4	491.0	860.1	2113.8	2525.1	3004.8
80°	171.5	203.3	214.6	209.9	223.0	267.0	346.7	546.2	1457.9	1638.7	1977.0
82.5°	105.9	135.9	137.7	142.4	151.8	197.7	261.4	332.6	915.4	946.3	1191.8
85°	53.4	64.6	69.3	76.8	85.3	120.9	149.0	206.1	589.3	446.0	666.2
87.5°	17.8	18.7	22.5	28.1	34.7	49.7	63.7	84.3	146.2	80.6	206.1
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: P453018

CATALOG NUMBER: GALN-SA4A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1
2.5°	3990.5	4070.1	4128.2	4181.6	4130.1	4125.4	4074.8	3993.3	3959.5	3959.5
5°	4225.6	4412.1	4562.9	4659.4	4618.2	4518.9	4354.9	4146.0	4033.6	4013.9
7.5°	4290.3	4658.5	4938.6	5038.0	4968.6	4749.4	4435.5	4083.2	3922.1	3886.5
10°	4250.9	4729.7	5141.0	5298.4	5201.9	4870.3	4442.1	4010.1	3811.5	3770.3
12.5°	4209.7	4739.1	5178.5	5406.2	5343.4	4967.7	4489.9	3962.3	3732.8	3673.8
15°	4239.7	4742.8	5132.6	5367.8	5408.1	5084.8	4568.6	3997.0	3716.9	3654.1
17.5°	4428.9	4814.0	5067.0	5257.2	5398.7	5244.1	4792.5	4162.9	3859.3	3781.5
20°	4824.3	4984.6	5104.5	5251.6	5479.3	5569.2	5250.7	4618.2	4259.4	4191.0
22.5°	5969.3	5940.2	5694.8	5692.0	6021.8	6382.5	6360.9	5543.9	5004.2	4948.0
25°	6398.4	6263.5	5908.4	5822.2	5967.4	6524.0	6443.4	5733.2	5234.7	5097.9
27.5°	6230.7	5896.2	5662.9	5643.2	5595.4	6121.1	6315.0	5810.0	5315.3	5182.3
30°	6220.4	5728.5	5394.9	5434.3	5480.2	5982.4	6386.2	6050.8	5521.4	5379.0
32.5°	6245.7	5751.9	5414.6	5422.1	5558.9	6003.0	6464.9	6313.2	5792.2	5649.8
35°	6347.8	5885.0	5540.2	5522.4	5736.0	6137.9	6598.9	6725.4	6162.3	6000.2
37.5°	6512.7	6150.1	5769.7	5765.0	6075.2	6381.5	6765.7	7141.4	6530.5	6356.2
40°	6755.4	6460.3	6178.2	6152.9	6536.1	6777.9	6982.1	7584.6	6958.7	6734.8
42.5°	7048.7	6832.2	6717.0	6817.2	7185.4	7222.9	7319.4	7994.0	7323.2	7062.7
45°	7320.4	7310.1	7470.3	7736.4	7950.9	7726.1	7671.7	8268.6	7606.1	7323.2
47.5°	7643.6	7922.8	8406.3	8796.1	9020.9	8311.7	7972.5	8447.5	7812.3	7551.8
50°	7971.5	8656.5	9428.5	9971.9	10019.7	8947.8	8179.5	8616.2	7999.7	7728.9
52.5°	8316.3	9242.0	10269.9	10901.4	10808.6	9501.6	8380.1	8730.5	8192.7	7954.7
55°	8616.2	9600.9	10740.2	11346.4	11210.6	9838.9	8596.5	8854.2	8468.1	8267.6
57.5°	8783.9	9630.9	10623.1	11152.5	11005.4	9773.3	8695.8	8946.0	8644.3	8486.9
58°	8808.2	9590.6	10519.1	11040.0	10890.1	9718.0	8694.9	8942.2	8655.5	8497.2
60°	8786.7	9329.2	10132.1	10595.9	10438.5	9371.3	8659.3	8872.0	8513.1	8379.1
62.5°	8587.1	8875.7	9464.1	9801.4	9756.4	8829.8	8513.1	8606.8	8079.3	7950.0
65°	8324.8	8257.3	8608.7	8847.6	8881.3	8424.1	8367.9	8033.4	7522.7	7340.0
67.5°	8006.2	7556.5	7555.5	7691.4	7747.6	7800.1	8065.2	7410.3	6720.7	6527.7
70°	7465.6	6476.2	6178.2	6338.4	6291.6	6734.8	7524.6	6535.2	5753.8	5528.0
72.5°	6474.3	5139.2	4662.2	4868.4	4750.3	5281.6	6583.9	5378.1	4757.8	4480.5
75°	5247.8	3844.3	3352.4	3541.7	3468.6	4006.4	5478.3	3906.1	3412.4	3306.5
77.5°	4074.8	2785.5	2499.8	2473.5	2527.9	2981.4	4018.6	2637.5	2249.6	2177.5
80°	2617.8	1993.8	2010.7	1977.0	2005.1	1879.5	2439.8	1682.8	1523.5	1465.4
82.5°	1723.0	1389.5	1656.5	1529.1	1452.3	1263.9	1600.3	1101.8	935.1	903.2
85°	1174.0	1023.1	931.3	712.1	838.6	973.5	1200.2	593.1	470.3	426.3
87.5°	530.3	356.0	261.4	161.2	254.8	294.2	582.8	69.3	53.4	55.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)