

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: P454902

Luminaire Tested: **GALN-SA6A-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19475 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

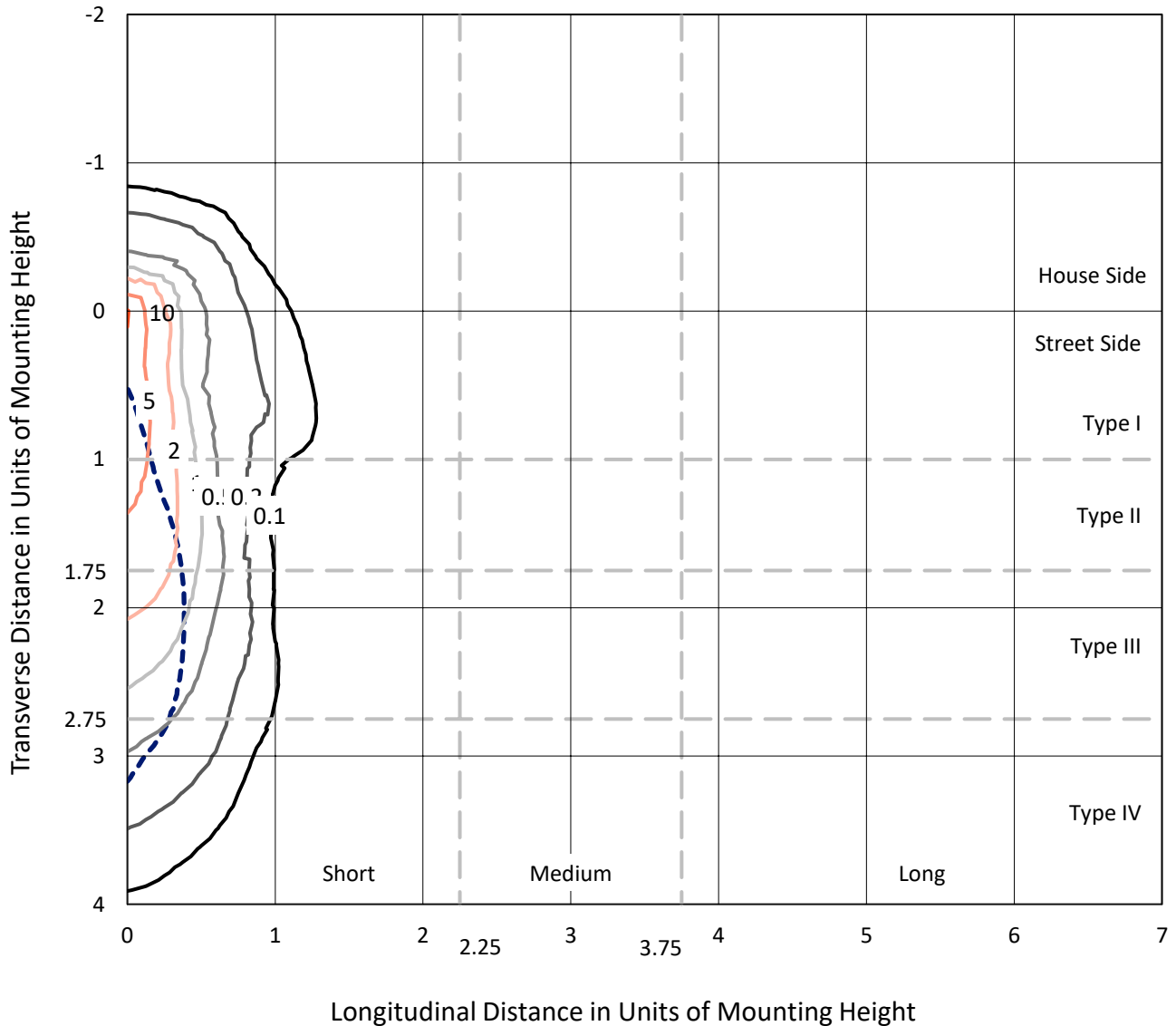
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

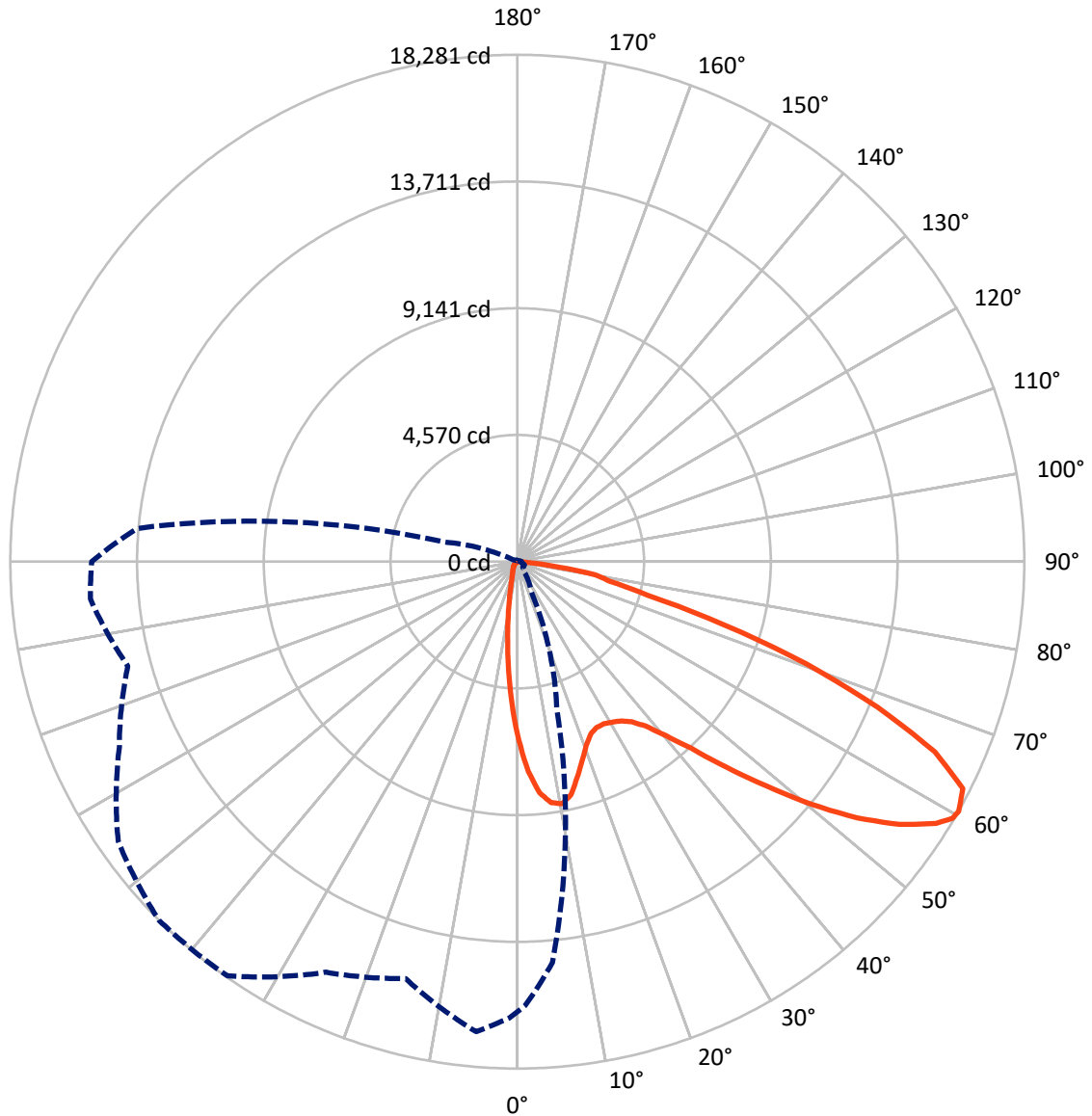
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2402.0	0.0	2402.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	17073.0	0.0	17073.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	19475.0	0.0	19475.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.7	2.5
10°-20°	950.8	4.9
20°-30°	1394.1	7.2
30°-40°	2073.3	10.6
40°-50°	3017.3	15.5
50°-60°	4351.2	22.3
60°-70°	4785.8	24.6
70°-80°	2143.7	11.0
80°-90°	280.1	1.4
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°	19475.0	100.0
0°-180°	19475.0	100.0

**Coefficient of Utilization**



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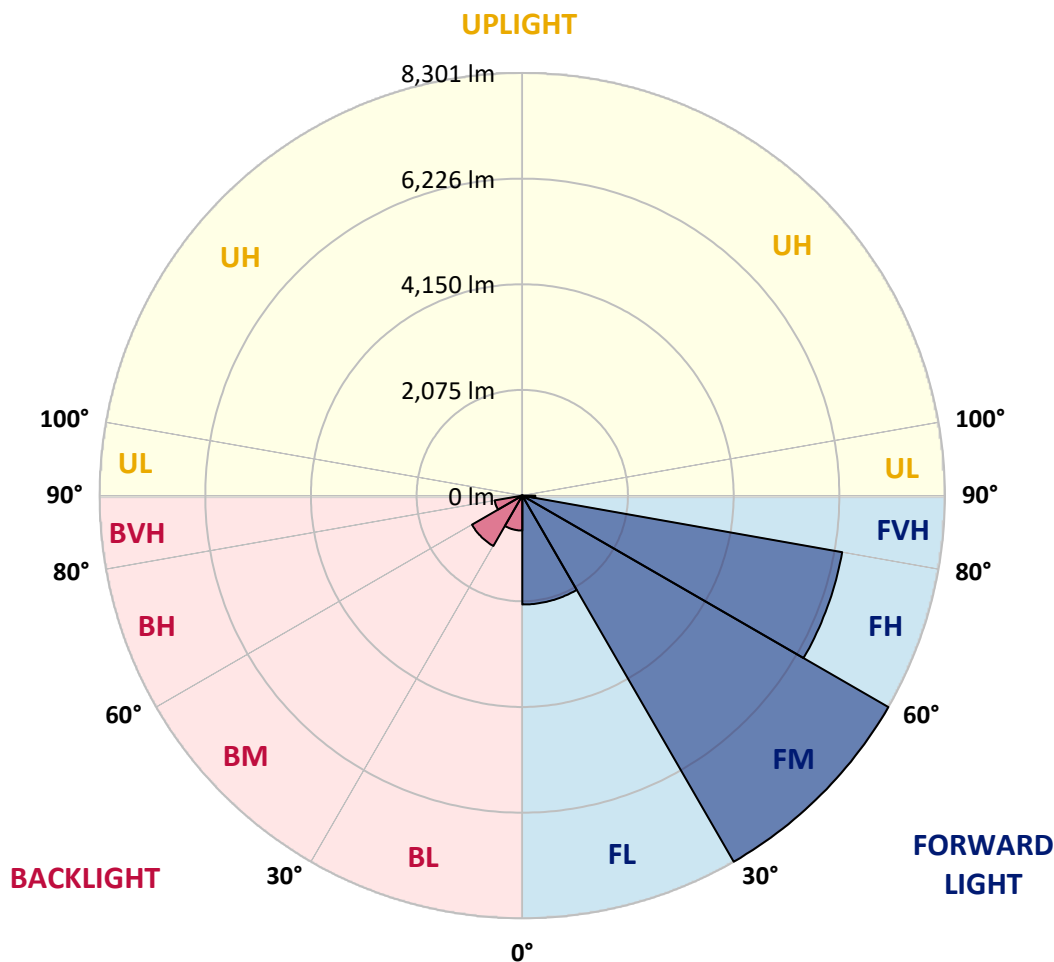
CATALOG NUMBER: GALN-SA6A-740-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2137.3	11.0			
FM	(30°-60°)	8300.8	42.6			
FH	(60°-80°)	6378.6	32.8			G3/7500
FVH	(80°-90°)	256.2	1.3			G3/500
BL	(0°-30°)	686.3	3.5	B2/1000		
BM	(30°-60°)	1140.9	5.9	B2/2500		
BH	(60°-80°)	550.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	23.9	0.1			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°	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8
2.5°	7076.3	7045.2	6974.1	6758.0	6570.0	6324.3	6075.5	5880.1	5760.2	5539.6	5439.0
5°	6855.7	6870.5	6664.7	6220.6	5726.2	5388.6	5020.0	4726.9	4404.2	4199.9	3985.2
7.5°	6279.8	6250.2	6026.7	5407.9	4806.8	4318.3	3852.0	3473.0	3234.7	3043.7	2883.8
10°	5786.9	5764.7	5478.9	4682.5	4037.0	3671.4	3356.1	3024.5	2768.3	2488.5	2265.0
12.5°	5477.5	5427.1	5098.5	4266.5	3741.0	3400.5	3057.0	2712.1	2358.3	2075.5	1804.6
15°	5373.8	5301.3	4935.6	4122.9	3551.5	3119.2	2688.4	2291.7	1884.5	1572.2	1367.9
17.5°	5561.9	5441.9	5052.6	4097.7	3325.0	2752.1	2222.1	1705.4	1282.0	1043.7	917.8
20°	5992.6	5855.0	5348.7	4072.6	3073.3	2340.5	1689.1	1205.0	886.8	756.5	686.9
22.5°	6632.2	6442.7	5786.9	4112.5	2840.9	1939.3	1219.8	851.2	704.7	623.2	574.4
25°	7400.5	7242.1	6342.0	4254.7	2657.3	1624.0	943.0	695.8	593.6	543.3	506.3
27.5°	8242.9	7989.7	7060.0	4424.9	2490.0	1379.7	827.5	621.8	528.5	482.6	463.4
30°	8842.4	8645.5	7661.1	4543.3	2281.3	1196.2	756.5	612.9	530.0	475.2	439.7
32.5°	9434.6	9182.9	8164.4	4598.1	2128.8	1068.8	654.3	534.4	464.8	436.7	401.2
35°	10068.2	9804.7	8666.2	4568.5	2014.8	984.5	593.6	476.7	398.2	350.9	315.3
37.5°	10709.2	10430.9	9165.1	4461.9	1943.8	950.4	546.3	453.0	376.0	327.2	288.7
40°	11470.1	11098.5	9632.9	4374.6	1869.7	932.7	515.2	438.2	359.7	307.9	269.4
42.5°	12091.9	11738.1	10075.6	4328.7	1819.4	891.2	515.2	426.4	349.4	291.6	251.7
45°	12681.1	12313.9	10553.7	4365.7	1798.7	839.4	521.1	424.9	342.0	279.8	239.8
47.5°	13174.1	12855.8	11045.2	4504.8	1772.0	783.1	490.0	445.6	337.5	269.4	228.0
50°	13755.8	13447.9	11695.1	4786.1	1724.7	726.9	451.5	479.6	336.1	260.5	217.6
52.5°	14576.0	14242.9	12592.3	5105.9	1649.2	641.0	416.0	475.2	330.1	245.7	207.3
55°	15578.2	15308.8	13631.5	5489.3	1545.5	544.8	359.7	421.9	312.4	220.6	189.5
57.5°	16220.7	15991.2	14410.2	5655.1	1387.1	445.6	316.8	353.8	285.7	196.9	168.8
59°	16296.2	16089.0	14573.0	5600.3	1283.5	407.1	296.1	303.5	278.3	183.6	156.9
60°	16232.6	16017.9	14507.9	5493.8	1187.3	380.5	278.3	269.4	279.8	176.2	148.0
62.5°	15824.0	15456.8	13875.8	4953.4	1037.8	349.4	247.2	220.6	247.2	158.4	131.8
65°	15034.9	14484.2	12624.8	4192.5	978.5	331.6	210.2	185.0	188.0	139.2	114.0
67.5°	13656.7	12962.4	10959.4	3406.4	953.4	333.1	177.6	165.8	145.1	118.4	100.7
70°	11477.5	10784.7	8793.6	2802.4	941.5	333.1	151.0	142.1	121.4	99.2	87.3
72.5°	8133.3	7387.2	5932.0	2201.4	848.3	331.6	128.8	128.8	99.2	82.9	71.1
75°	4595.2	4601.1	3729.1	1557.4	704.7	273.9	103.6	102.1	72.5	63.7	53.3
77.5°	2678.0	2630.7	2513.7	669.1	327.2	124.4	72.5	62.2	50.3	45.9	38.5
80°	1376.8	1132.5	1102.9	242.8	117.0	78.5	50.3	35.5	32.6	29.6	26.6
82.5°	407.1	408.6	364.2	97.7	65.1	51.8	25.2	19.2	17.8	16.3	16.3
85°	28.1	17.8	20.7	29.6	40.0	20.7	1.5	4.4	4.4	5.9	7.4
87.5°	3.0	1.5	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8
2.5°	5327.9	5393.1	5271.7	5274.7	5174.0	5206.6	5088.1	5126.6	5057.0	5110.3	5267.3
5°	4008.9	4023.7	3926.0	3894.9	3909.7	3970.4	3994.1	3886.0	3931.9	3841.6	3835.7
7.5°	2824.6	2842.4	2786.1	2778.7	2885.3	2860.1	2906.0	2795.0	2689.9	2735.8	2651.4
10°	2193.9	2119.9	2004.5	1971.9	1951.2	1964.5	1964.5	1863.8	1849.0	1809.0	1869.7
12.5°	1732.1	1641.8	1532.2	1384.2	1347.2	1344.2	1289.4	1200.6	1172.5	1138.4	1188.8
15°	1258.3	1221.3	1129.5	1046.6	962.3	946.0	857.1	784.6	688.4	675.1	670.6
17.5°	885.3	830.5	829.0	781.6	732.8	700.2	617.3	534.4	497.4	493.0	493.0
20°	663.2	644.0	612.9	607.0	592.2	555.1	481.1	436.7	419.0	420.4	426.4
22.5°	558.1	544.8	516.7	503.3	497.4	464.8	410.1	380.5	371.6	371.6	373.1
25°	498.9	487.1	456.0	435.2	427.8	404.1	361.2	339.0	331.6	331.6	331.6
27.5°	454.5	439.7	407.1	389.3	376.0	349.4	322.7	300.5	293.1	293.1	294.6
30°	423.4	407.1	377.5	353.8	333.1	309.4	287.2	268.0	259.1	257.6	259.1
32.5°	381.9	367.1	337.5	322.7	299.0	270.9	253.1	235.4	226.5	228.0	226.5
35°	297.6	293.1	272.4	276.8	263.5	239.8	223.5	204.3	193.9	192.5	195.4
37.5°	270.9	253.1	229.5	230.9	226.5	217.6	191.0	170.2	162.8	162.8	164.3
40°	250.2	232.4	205.8	192.5	193.9	193.9	165.8	143.6	136.2	134.7	137.7
42.5°	232.4	214.7	185.0	162.8	156.9	164.3	140.6	118.4	111.0	108.1	111.0
45°	220.6	201.3	167.3	142.1	124.4	133.2	115.5	97.7	88.8	88.8	87.3
47.5°	208.7	191.0	154.0	122.9	103.6	99.2	94.7	78.5	69.6	68.1	69.6
50°	198.4	180.6	139.2	106.6	87.3	77.0	77.0	62.2	56.3	53.3	54.8
52.5°	188.0	168.8	125.8	94.7	75.5	62.2	54.8	50.3	45.9	44.4	45.9
55°	173.2	154.0	112.5	81.4	65.1	51.8	42.9	41.5	38.5	35.5	38.5
57.5°	155.4	137.7	99.2	69.6	51.8	40.0	35.5	34.0	31.1	29.6	29.6
59°	145.1	128.8	91.8	60.7	45.9	35.5	32.6	31.1	28.1	25.2	26.6
60°	139.2	125.8	87.3	56.3	41.5	32.6	29.6	28.1	25.2	23.7	25.2
62.5°	122.9	112.5	77.0	45.9	32.6	23.7	20.7	22.2	20.7	19.2	20.7
65°	108.1	99.2	65.1	35.5	25.2	16.3	14.8	19.2	17.8	16.3	17.8
67.5°	96.2	85.9	54.8	26.6	17.8	8.9	10.4	16.3	16.3	14.8	16.3
70°	82.9	74.0	44.4	19.2	8.9	4.4	7.4	11.8	14.8	13.3	14.8
72.5°	68.1	57.7	34.0	13.3	4.4	0.0	4.4	10.4	14.8	13.3	14.8
75°	53.3	42.9	25.2	7.4	0.0	0.0	1.5	8.9	14.8	13.3	14.8
77.5°	38.5	31.1	14.8	1.5	0.0	0.0	1.5	8.9	14.8	13.3	14.8
80°	25.2	22.2	5.9	0.0	0.0	0.0	1.5	8.9	14.8	14.8	16.3
82.5°	16.3	11.8	0.0	0.0	0.0	0.0	3.0	11.8	16.3	17.8	17.8
85°	7.4	0.0	0.0	0.0	0.0	0.0	5.9	14.8	19.2	19.2	19.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	10.4	17.8	22.2	22.2	22.2
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°	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8
2.5°	5293.9	5387.2	5518.9	5721.7	5886.1	6145.1	6343.5	6614.4	6888.3	6971.2	7100.0
5°	3896.4	4016.3	4315.4	4587.8	4759.5	5307.2	5653.6	6199.9	6689.9	6925.3	7181.4
7.5°	2706.2	2848.3	3076.3	3456.7	3817.9	4263.5	4823.1	5447.9	6165.9	6501.9	6863.1
10°	1899.3	2077.0	2398.2	2710.6	3165.1	3588.5	4140.7	4830.5	5622.5	6019.3	6472.3
12.5°	1199.1	1357.5	1782.4	2133.3	2700.2	3191.7	3701.0	4325.7	5243.6	5650.7	6125.9
15°	685.4	818.7	1017.0	1467.1	2096.2	2746.1	3381.2	4106.6	5049.6	5551.5	6065.2
17.5°	510.7	546.3	635.1	889.7	1462.6	2222.1	3086.6	4040.0	5181.4	5770.6	6356.8
20°	429.3	453.0	494.5	595.1	932.7	1711.3	2799.4	4051.8	5607.7	6347.9	6904.6
22.5°	384.9	399.7	433.8	498.9	636.6	1246.5	2463.4	4121.4	6124.4	7057.1	7699.5
25°	337.5	356.8	386.4	442.6	530.0	864.6	2131.8	4276.9	6848.3	7957.1	8561.1
27.5°	300.5	318.3	347.9	399.7	464.8	660.3	1745.4	4410.1	7612.2	8863.1	9357.6
30°	263.5	281.3	310.9	352.3	411.6	534.4	1329.4	4488.6	8353.9	9542.6	9923.1
32.5°	232.4	247.2	275.4	312.4	361.2	453.0	1048.1	4407.1	8920.9	10160.0	10414.6
35°	201.3	219.1	242.8	276.8	319.8	386.4	872.0	4125.9	9407.9	10795.1	10886.8
37.5°	168.8	189.5	214.7	245.7	279.8	355.3	700.2	3815.0	9929.0	11587.1	11436.1
40°	142.1	161.4	185.0	219.1	250.2	325.7	538.9	3483.4	10491.6	12330.2	12035.6
42.5°	115.5	136.2	164.3	195.4	247.2	284.2	417.5	3139.9	10996.4	12977.2	12577.5
45°	91.8	109.5	139.2	179.1	245.7	244.3	322.7	2800.9	11376.9	13439.0	12981.6
47.5°	72.5	87.3	117.0	174.7	226.5	207.3	259.1	2590.7	11776.6	13855.0	13291.0
50°	57.7	72.5	100.7	182.1	198.4	177.6	217.6	2624.7	12162.9	14066.7	13418.3
52.5°	48.9	63.7	87.3	143.6	152.5	155.4	191.0	2781.7	12661.8	14293.2	13671.5
55°	42.9	56.3	74.0	100.7	118.4	139.2	174.7	2895.7	13329.5	14778.8	14229.6
57.5°	34.0	48.9	66.6	85.9	97.7	121.4	161.4	2904.5	13933.5	15402.0	14971.3
59°	31.1	44.4	62.2	81.4	87.3	109.5	152.5	2829.0	13955.7	15495.3	15311.7
60°	28.1	42.9	59.2	75.5	82.9	103.6	145.1	2741.7	13754.4	15347.3	15452.4
62.5°	23.7	37.0	51.8	60.7	71.1	85.9	125.8	2424.9	12778.8	14676.7	15191.8
65°	20.7	32.6	44.4	50.3	59.2	74.0	111.0	1940.8	11701.1	13767.7	14445.7
67.5°	19.2	29.6	38.5	42.9	51.8	68.1	99.2	1370.8	10305.0	12614.5	13325.1
70°	17.8	28.1	34.0	40.0	45.9	57.7	84.4	799.4	7937.9	10592.2	11342.8
72.5°	17.8	26.6	29.6	34.0	40.0	51.8	78.5	432.3	5427.1	8080.0	9049.7
75°	17.8	25.2	26.6	29.6	35.5	47.4	69.6	226.5	3508.5	5613.7	6928.3
77.5°	17.8	23.7	26.6	28.1	34.0	41.5	60.7	142.1	2337.5	3931.9	4682.5
80°	19.2	23.7	25.2	28.1	32.6	38.5	50.3	94.7	1373.8	2365.7	2849.8
82.5°	20.7	23.7	26.6	29.6	34.0	37.0	44.4	59.2	633.6	1564.8	1770.6
85°	22.2	25.2	28.1	31.1	35.5	37.0	41.5	42.9	103.6	706.1	954.9
87.5°	23.7	26.6	29.6	32.6	38.5	38.5	38.5	38.5	35.5	75.5	192.5
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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CATALOG NUMBER: GALN-SA6A-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8	6436.8
2.5°	7262.8	7430.1	7547.1	7576.7	7492.3	7453.8	7347.2	7181.4	7080.7	7076.3
5°	7653.7	8046.0	8318.4	8364.2	8201.4	7926.0	7598.9	7177.0	6929.7	6855.7
7.5°	7587.0	8273.9	8712.1	8775.8	8501.9	7976.4	7342.8	6663.3	6393.8	6279.8
10°	7313.2	8151.1	8777.3	8877.9	8512.3	7772.1	6966.7	6208.8	5874.2	5786.9
12.5°	7079.3	7926.0	8482.7	8621.8	8345.0	7606.3	6741.7	5917.1	5558.9	5477.5
15°	6977.1	7659.6	8000.1	8071.1	8025.2	7502.7	6718.0	5872.7	5462.7	5373.8
17.5°	7079.3	7433.1	7476.0	7548.5	7650.7	7492.3	6946.0	6114.0	5671.4	5561.9
20°	7347.2	7236.2	7058.5	7089.6	7323.5	7535.2	7351.7	6648.5	6109.6	5992.6
22.5°	7803.2	7187.3	6784.7	6758.0	7054.1	7678.8	7946.8	7372.4	6747.6	6632.2
25°	8362.8	7310.2	6684.0	6626.3	6949.0	7889.0	8593.7	8259.1	7576.7	7400.5
27.5°	8972.7	7564.8	6684.0	6627.7	6940.1	8075.6	9147.4	9043.7	8435.3	8242.9
30°	9307.3	7775.0	6780.2	6716.6	7049.7	8183.6	9443.5	9741.0	9080.8	8842.4
32.5°	9606.3	8066.7	6968.2	6848.3	7279.1	8343.5	9708.4	10333.2	9594.5	9434.6
35°	9881.6	8379.0	7227.3	7088.1	7581.1	8562.6	10001.6	10954.9	10309.5	10068.2
37.5°	10185.1	8741.7	7631.4	7513.0	8085.9	8989.0	10349.5	11772.1	11012.7	10709.2
40°	10515.3	9162.2	8296.1	8245.8	8888.3	9471.6	10789.1	12644.1	11815.0	11470.1
42.5°	10851.3	9646.3	9110.4	9193.3	9797.3	10148.1	11240.7	13314.7	12472.3	12091.9
45°	11156.3	10265.1	10168.8	10578.9	10857.2	10808.4	11575.2	13786.9	13045.3	12681.1
47.5°	11541.2	11166.6	11449.4	12081.5	12088.9	11526.4	11828.4	14173.3	13538.2	13174.1
50°	11972.0	12231.0	13103.0	13747.0	13573.8	12232.5	12124.5	14630.8	14047.5	13755.8
52.5°	12470.9	13422.8	14630.8	15345.8	14941.6	13002.3	12617.4	15125.2	14855.8	14576.0
55°	13051.2	14235.5	16154.1	16724.0	16316.9	13958.7	13366.5	15795.8	15769.2	15578.2
57.5°	13707.0	15094.1	17036.4	17807.7	17445.0	15080.8	14413.1	16428.0	16327.3	16220.7
59°	14225.1	15535.3	17425.8	18225.2	18006.1	15866.9	15116.3	16821.8	16456.1	16296.2
60°	14539.0	15834.3	17569.4	18281.4	18231.1	16334.7	15561.9	17014.2	16454.6	16232.6
62.5°	15470.1	16356.9	17514.6	18031.2	18228.1	17231.8	16869.1	17225.9	16149.7	15824.0
65°	15801.8	16183.7	16607.1	16543.4	16712.2	17185.9	17704.1	16993.5	15498.3	15034.9
67.5°	15156.3	14284.3	14433.9	14009.0	13926.1	15279.2	17365.1	15856.5	14223.7	13656.7
70°	12775.8	10943.1	10867.6	11063.0	10527.1	12370.2	15593.0	13667.0	12120.0	11477.5
72.5°	10056.3	7733.6	7097.0	7816.5	7800.2	9437.5	12953.5	9698.1	8188.1	8133.3
75°	7908.3	5384.2	4725.4	4842.4	5067.4	6832.0	10316.9	6158.5	5042.2	4595.2
77.5°	5308.7	3815.0	3558.9	3415.3	3658.1	4386.4	6527.1	3339.8	2827.6	2678.0
80°	3060.0	2771.3	3147.3	2857.2	2987.4	2763.9	3246.5	1532.2	1271.7	1376.8
82.5°	1991.1	1578.1	1681.7	1249.5	1708.4	1723.2	1042.2	453.0	383.4	407.1
85°	1245.0	740.2	416.0	296.1	589.2	1083.7	325.7	28.1	32.6	28.1
87.5°	322.7	122.9	51.8	77.0	94.7	84.4	75.5	4.4	1.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)