

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: P529095

Luminaire Tested: **GALN-SA4B-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529095  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10407 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

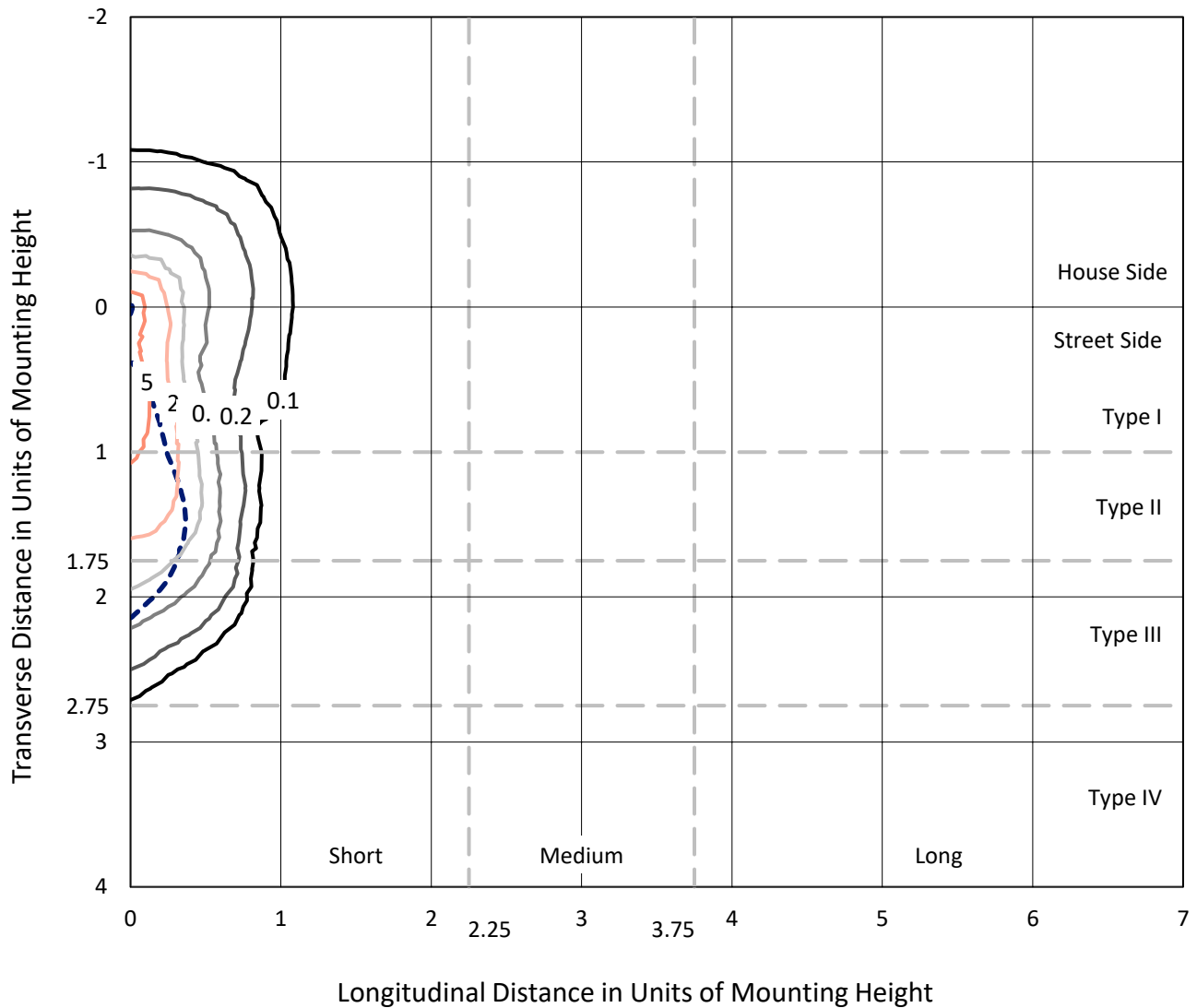
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

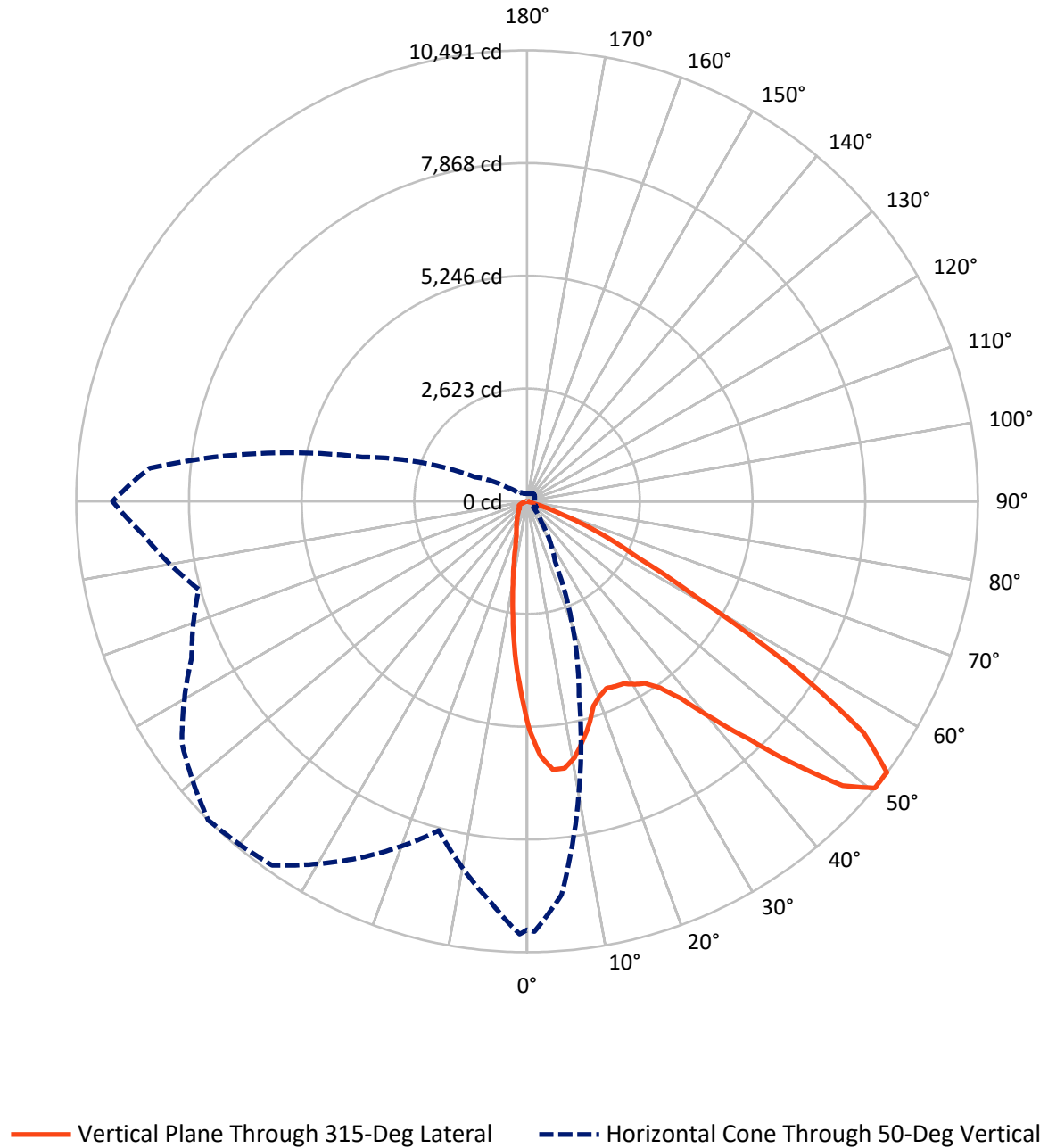
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2084.5	0.0	2084.5
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	8322.5	0.0	8322.5
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	10407.0	0.0	10407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.7	3.7
10°-20°	764.5	7.3
20°-30°	1148.6	11.0
30°-40°	1724.0	16.6
40°-50°	2422.9	23.3
50°-60°	2613.6	25.1
60°-70°	1213.5	11.7
70°-80°	114.2	1.1
80°-90°	21.0	0.2
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°	10407.0	100.0
0°-180°	10407.0	100.0

**Coefficient of Utilization**



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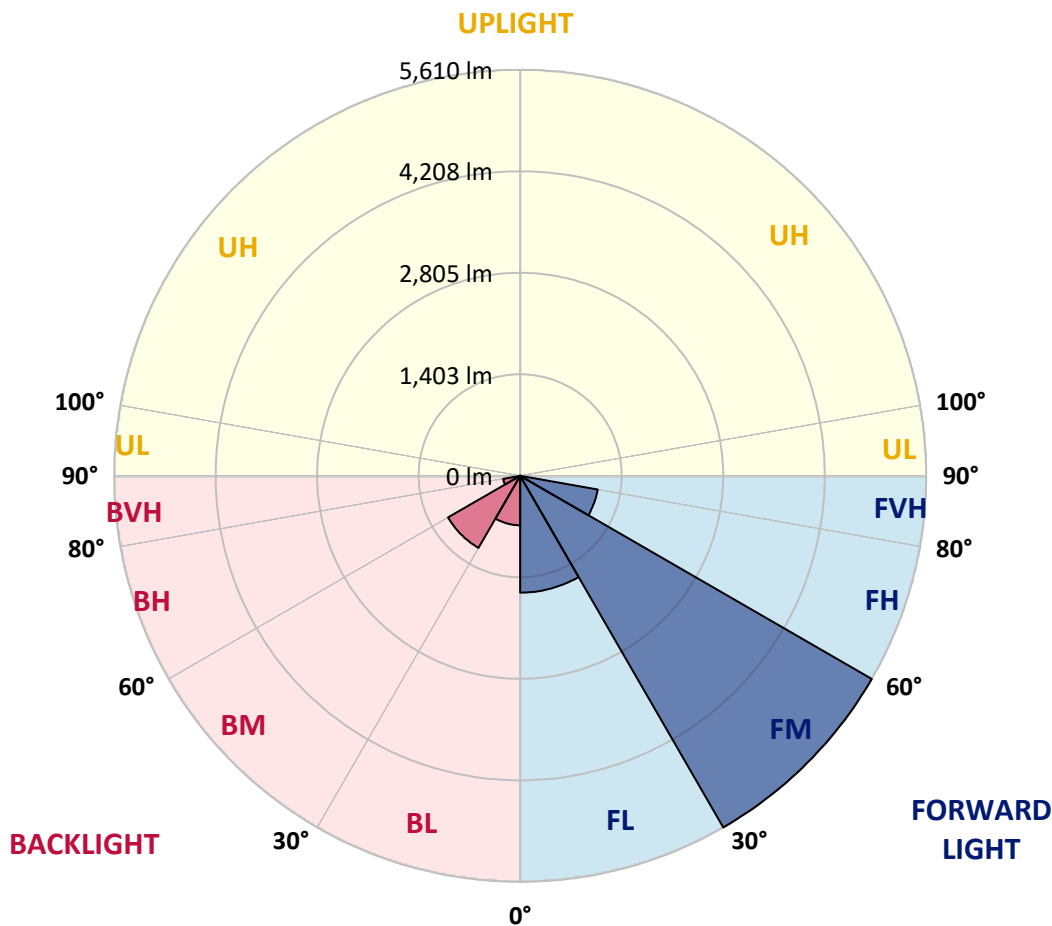
CATALOG NUMBER: GALN-SA4B-727-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1614.6	15.5			
FM (30°-60°)	5610.2	53.9			
FH (60°-80°)	1088.3	10.5			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	683.3	6.6	B2/1000		
BM (30°-60°)	1150.3	11.1	B2/2500		
BH (60°-80°)	239.4	2.3	B1/500		G1/500
BVH (80°-90°)	11.6	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7
2.5°	5486.2	5401.5	5294.2	5205.4	5073.2	4806.9	4734.6	4647.9	4575.6	4478.6	4342.3
5°	4988.6	4961.7	4912.2	4577.7	4336.1	4014.0	3749.7	3638.2	3491.6	3371.8	3285.1
7.5°	4608.7	4501.3	4344.4	4007.8	3621.7	3276.9	2983.7	2812.3	2618.2	2552.1	2434.4
10°	4201.9	4226.7	3995.4	3522.6	3055.9	2777.2	2595.5	2430.3	2254.8	2139.1	1971.9
12.5°	4071.8	3991.3	3813.7	3229.4	2830.9	2570.7	2349.8	2145.3	1959.5	1773.7	1612.6
15°	4156.5	4032.6	3784.8	3167.4	2657.4	2333.2	2056.6	1779.9	1608.5	1371.0	1203.8
17.5°	4460.0	4360.9	4028.4	3233.5	2568.6	2106.1	1695.2	1410.3	1148.0	933.3	848.6
20°	4965.9	4825.5	4408.4	3318.2	2436.5	1831.5	1375.2	1024.1	776.4	685.5	638.0
22.5°	5461.4	5385.0	4858.5	3481.3	2318.8	1587.8	1032.4	689.6	580.2	563.7	532.7
25°	6405.0	6175.9	5546.1	3776.5	2227.9	1358.6	778.4	555.4	491.4	479.0	483.2
27.5°	6966.7	6774.6	6182.0	3972.7	2126.8	1183.1	658.7	510.0	466.6	439.8	429.5
30°	7505.6	7282.6	6498.0	4088.3	1910.0	997.3	584.3	489.4	479.0	439.8	427.4
32.5°	7920.6	7701.8	6954.3	4261.8	1821.2	877.5	481.1	382.0	355.1	351.0	388.2
35°	8556.6	8323.3	7344.5	4356.8	1753.0	815.6	417.1	340.7	309.7	297.3	299.4
37.5°	9149.2	8990.2	7705.9	4393.9	1680.8	797.0	373.7	305.6	278.7	270.5	268.4
40°	9644.7	9289.6	8048.6	4433.2	1649.8	761.9	346.9	278.7	260.2	247.8	247.8
42.5°	9871.9	9510.5	8432.7	4410.4	1641.5	706.2	346.9	256.0	241.6	229.2	227.1
45°	9822.3	9675.7	8604.1	4400.1	1641.5	650.4	315.9	249.8	229.2	212.7	208.5
47.5°	9950.3	9758.3	8818.8	4443.5	1608.5	611.2	266.4	262.2	216.8	196.2	192.0
50°	9973.0	10010.2	9192.5	4668.5	1536.2	561.6	208.5	258.1	208.5	177.6	173.4
52°	10121.7	9890.5	9306.1	4788.3	1459.8	524.5	175.5	220.9	200.3	165.2	161.1
52.5°	9917.3	10068.0	9333.0	4831.7	1468.1	499.7	169.3	216.8	196.2	165.2	154.9
55°	9688.1	9832.6	9223.5	4924.6	1346.3	392.3	132.1	156.9	177.6	144.5	138.3
57.5°	8420.3	8566.9	8015.6	4509.6	1096.4	276.7	109.4	117.7	156.9	134.2	128.0
60°	7484.9	7379.6	6727.2	3762.1	778.4	154.9	86.7	90.9	171.4	123.9	121.8
62.5°	6840.7	6615.7	5622.5	2905.2	474.9	103.2	68.1	70.2	132.1	115.6	115.6
65°	5060.9	4808.9	3735.2	1757.2	233.3	72.3	51.6	55.7	82.6	99.1	99.1
67.5°	2888.7	2791.6	1804.6	792.9	97.0	45.4	39.2	43.4	64.0	80.5	76.4
70°	1327.7	1191.4	693.8	167.2	45.4	31.0	31.0	35.1	51.6	59.9	55.7
72.5°	388.2	367.5	169.3	26.8	18.6	18.6	20.6	26.8	39.2	45.4	41.3
75°	28.9	18.6	12.4	8.3	8.3	12.4	16.5	26.8	39.2	43.4	35.1
77.5°	2.1	4.1	2.1	2.1	6.2	12.4	18.6	33.0	51.6	53.7	39.2
80°	2.1	2.1	0.0	2.1	6.2	12.4	20.6	37.2	57.8	61.9	33.0
82.5°	0.0	0.0	0.0	2.1	8.3	16.5	24.8	39.2	53.7	66.1	35.1
85°	0.0	0.0	0.0	2.1	12.4	22.7	28.9	10.3	6.2	0.0	0.0
87.5°	0.0	0.0	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°	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7
2.5°	4439.3	4385.7	4365.0	4383.6	4377.4	4371.2	4484.8	4460.0	4455.9	4493.0	4484.8
5°	3332.6	3237.6	3497.8	3392.5	3501.9	3568.0	3580.4	3586.6	3663.0	3582.4	3687.8
7.5°	2374.5	2399.3	2397.2	2467.5	2593.4	2704.9	2771.0	2719.4	2715.2	2704.9	2659.5
10°	1897.6	1854.2	1845.9	1829.4	1868.7	1963.6	2044.2	1980.2	1934.7	1996.7	1978.1
12.5°	1550.7	1490.8	1457.8	1391.7	1393.7	1457.8	1457.8	1457.8	1503.2	1538.3	1565.1
15°	1189.3	1139.8	1139.8	1073.7	1059.2	1061.3	1094.4	1098.5	1170.7	1191.4	1201.7
17.5°	832.1	805.3	836.2	863.1	846.6	850.7	863.1	867.2	877.5	869.3	889.9
20°	640.1	636.0	644.2	691.7	726.8	747.5	733.0	712.4	700.0	671.1	671.1
22.5°	543.0	551.3	565.8	605.0	650.4	662.8	646.3	598.8	561.6	557.5	559.6
25°	483.2	491.4	514.1	538.9	563.7	584.3	567.8	532.7	512.1	493.5	493.5
27.5°	446.0	450.1	462.5	481.1	501.7	518.3	512.1	493.5	470.8	462.5	443.9
30°	417.1	423.3	437.7	441.9	460.5	468.7	458.4	454.3	439.8	429.5	423.3
32.5°	402.6	400.6	410.9	415.0	417.1	423.3	410.9	417.1	415.0	398.5	392.3
35°	303.5	320.0	346.9	369.6	375.8	384.1	382.0	373.7	351.0	332.4	309.7
37.5°	272.6	282.9	297.3	315.9	340.7	351.0	346.9	326.2	299.4	287.0	282.9
40°	251.9	258.1	270.5	282.9	307.7	326.2	311.8	293.2	272.6	262.2	256.0
42.5°	233.3	235.4	241.6	254.0	272.6	301.5	276.7	251.9	243.6	237.5	233.3
45°	212.7	212.7	220.9	227.1	247.8	274.6	249.8	227.1	223.0	218.9	216.8
47.5°	196.2	198.2	202.4	210.6	227.1	245.7	229.2	210.6	200.3	198.2	194.1
50°	175.5	177.6	185.8	194.1	214.7	225.1	214.7	194.1	183.8	177.6	177.6
52°	159.0	165.2	173.4	190.0	204.4	220.9	208.5	185.8	173.4	167.2	163.1
52.5°	156.9	161.1	169.3	187.9	204.4	218.9	206.5	183.8	169.3	165.2	161.1
55°	140.4	146.6	161.1	183.8	202.4	218.9	202.4	181.7	161.1	150.7	146.6
57.5°	134.2	138.3	156.9	185.8	200.3	218.9	202.4	181.7	161.1	142.5	138.3
60°	128.0	136.3	156.9	179.6	198.2	220.9	204.4	179.6	156.9	134.2	134.2
62.5°	121.8	128.0	154.9	175.5	190.0	212.7	196.2	175.5	150.7	128.0	126.0
65°	105.3	115.6	136.3	146.6	163.1	183.8	167.2	152.8	132.1	113.6	111.5
67.5°	80.5	84.7	101.2	113.6	123.9	142.5	134.2	115.6	101.2	86.7	86.7
70°	55.7	59.9	72.3	78.5	88.8	99.1	92.9	78.5	68.1	59.9	57.8
72.5°	39.2	41.3	45.4	49.6	53.7	57.8	55.7	45.4	39.2	37.2	35.1
75°	31.0	35.1	37.2	35.1	33.0	31.0	31.0	26.8	22.7	20.6	20.6
77.5°	31.0	33.0	31.0	26.8	22.7	20.6	18.6	16.5	12.4	10.3	12.4
80°	26.8	26.8	26.8	22.7	20.6	18.6	16.5	14.5	12.4	10.3	10.3
82.5°	28.9	28.9	26.8	22.7	22.7	18.6	18.6	16.5	14.5	10.3	10.3
85°	0.0	0.0	0.0	4.1	10.3	18.6	18.6	16.5	14.5	12.4	12.4
87.5°	0.0	0.0	0.0	0.0	2.1	4.1	8.3	10.3	12.4	12.4	12.4
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°	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7
2.5°	4559.1	4637.6	4786.2	4934.9	5025.8	5133.1	5327.2	5430.5	5564.7	5630.7	5760.8
5°	3673.3	3859.1	3925.2	4094.5	4276.2	4457.9	4747.0	5065.0	5329.3	5511.0	5746.4
7.5°	2680.1	2723.5	2979.5	3093.1	3390.4	3720.8	4115.2	4515.7	4850.2	5147.6	5327.2
10°	2009.1	2168.1	2329.1	2545.9	2785.4	3126.1	3504.0	3945.9	4379.5	4676.8	4903.9
12.5°	1614.7	1740.6	1955.4	2188.7	2484.0	2709.0	3089.0	3526.7	4088.3	4379.5	4678.9
15°	1222.4	1383.4	1627.1	1868.7	2180.4	2417.9	2802.0	3353.3	4075.9	4476.5	4734.6
17.5°	906.5	1015.9	1234.8	1505.2	1823.2	2157.7	2676.0	3334.7	4214.3	4691.3	4957.6
20°	693.8	730.9	869.3	1110.9	1455.7	1893.4	2471.6	3415.2	4623.1	5213.7	5484.1
22.5°	561.6	578.1	631.8	799.1	1133.6	1662.2	2374.5	3470.9	5083.6	5839.3	6200.6
25°	489.4	485.2	520.3	592.6	885.8	1445.4	2250.6	3681.6	5647.3	6574.4	6898.5
27.5°	446.0	446.0	462.5	514.1	735.1	1305.0	2172.2	3832.3	6215.1	7220.6	7396.2
30°	423.3	427.4	474.9	491.4	611.2	1137.7	2042.1	3985.1	6758.1	7633.6	7875.2
32.5°	392.3	375.8	365.5	406.8	514.1	987.0	1912.0	4049.1	7197.9	8139.5	8346.0
35°	301.5	293.2	305.6	336.6	441.9	859.0	1767.5	4121.4	7703.8	8725.9	8767.2
37.5°	272.6	270.5	278.7	305.6	371.7	747.5	1664.2	4102.8	8089.9	9211.1	9099.6
40°	251.9	251.9	258.1	280.8	332.4	669.0	1556.9	4086.3	8463.7	9756.2	9430.0
42.5°	235.4	235.4	245.7	260.2	315.9	617.4	1476.3	4063.6	8777.5	10090.7	9624.1
45°	212.7	218.9	235.4	249.8	320.0	582.3	1416.5	3976.8	8884.9	10086.6	9531.2
47.5°	196.2	204.4	220.9	241.6	289.1	572.0	1375.2	3900.4	8847.7	9838.8	9240.0
50°	177.6	187.9	210.6	245.7	245.7	551.3	1331.8	3968.6	8820.9	9646.8	8961.3
52°	165.2	173.4	202.4	239.5	214.7	507.9	1305.0	4100.7	8930.3	9622.0	8837.4
52.5°	163.1	169.3	196.2	235.4	204.4	499.7	1286.4	4131.7	8965.4	9560.1	8922.1
55°	144.5	152.8	179.6	183.8	167.2	410.9	1226.5	4201.9	8792.0	9438.3	8841.5
57.5°	136.3	140.4	159.0	150.7	144.5	309.7	1055.1	4092.5	7809.1	8383.1	8226.2
60°	126.0	130.1	148.7	117.7	121.8	216.8	792.9	3553.5	6270.8	6985.3	7268.1
62.5°	121.8	119.8	140.4	95.0	103.2	156.9	559.6	2888.7	4831.7	5750.5	6239.9
65°	107.4	105.3	101.2	80.5	88.8	121.8	334.5	1885.2	3404.9	4350.6	4619.0
67.5°	82.6	86.7	74.3	64.0	74.3	95.0	185.8	844.5	1786.1	2609.9	2826.7
70°	57.8	61.9	59.9	55.7	66.1	78.5	107.4	289.1	739.2	1371.0	1511.4
72.5°	35.1	43.4	45.4	47.5	57.8	68.1	76.4	92.9	196.2	485.2	602.9
75°	20.6	28.9	35.1	41.3	47.5	57.8	64.0	66.1	68.1	90.9	146.6
77.5°	14.5	20.6	31.0	39.2	47.5	57.8	68.1	72.3	68.1	64.0	68.1
80°	12.4	20.6	28.9	37.2	49.6	59.9	68.1	68.1	66.1	57.8	61.9
82.5°	12.4	20.6	31.0	39.2	47.5	57.8	66.1	68.1	61.9	57.8	59.9
85°	14.5	22.7	33.0	41.3	51.6	47.5	43.4	35.1	33.0	26.8	28.9
87.5°	14.5	20.6	20.6	22.7	24.8	24.8	24.8	22.7	18.6	16.5	16.5
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-SA4B-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7
2.5°	5767.0	5932.2	5926.0	5930.1	5905.4	5738.1	5657.6	5453.2	5511.0	5486.2
5°	5988.0	6151.1	6291.5	6275.0	6085.0	5857.9	5521.3	5203.3	5116.6	4988.6
7.5°	5767.0	6159.3	6289.4	6270.8	5990.0	5698.9	5162.0	4844.1	4693.3	4608.7
10°	5416.0	5870.3	6031.3	6064.4	5874.4	5432.5	4939.0	4429.0	4348.5	4201.9
12.5°	5215.7	5546.1	5645.2	5734.0	5667.9	5337.5	4769.7	4280.4	4168.9	4071.8
15°	5052.6	5248.8	5290.0	5391.2	5430.5	5252.9	4858.5	4441.4	4166.8	4156.5
17.5°	5203.3	5122.8	4972.1	5003.0	5126.9	5254.9	5087.7	4759.4	4493.0	4460.0
20°	5453.2	5098.0	4757.3	4833.7	4937.0	5329.3	5434.6	5203.3	5050.5	4965.9
22.5°	5740.2	5141.4	4689.2	4726.4	4922.5	5496.5	5996.2	5868.2	5583.3	5461.4
25°	6270.8	5261.1	4742.9	4767.7	5036.1	5729.9	6504.2	6599.1	6429.8	6405.0
27.5°	6789.1	5570.9	4860.6	4804.8	5093.9	5957.0	6811.8	7321.8	7024.5	6966.7
30°	7053.4	5822.8	5036.1	4941.1	5333.4	6095.3	6997.6	7792.6	7532.4	7505.6
32.5°	7458.1	6052.0	5172.4	5050.5	5467.6	6266.7	7344.5	8306.7	8054.8	7920.6
35°	7627.4	6301.8	5471.8	5329.3	5851.7	6506.2	7522.1	8765.1	8686.7	8556.6
37.5°	7953.7	6570.2	5824.8	5816.6	6316.3	6818.0	7842.2	9388.7	9374.2	9149.2
40°	7980.5	6863.4	6382.3	6642.5	7034.8	7361.1	8123.0	9562.1	9797.5	9644.7
42.5°	8021.8	7377.6	7346.6	7561.3	7897.9	7827.7	8133.3	9603.4	9962.7	9871.9
45°	8040.4	7891.7	8327.4	8723.8	8864.2	8438.9	8036.3	9525.0	10049.4	9822.3
47.5°	7891.7	8333.6	9120.3	9886.3	9927.6	8814.7	7995.0	9444.5	10101.1	9950.3
50°	7912.4	8610.3	9805.8	10491.3	10340.6	9147.1	7930.9	9394.9	10074.2	9973.0
52°	7862.8	8616.5	9902.8	10478.9	10373.6	8963.4	7821.5	9204.9	10049.4	10121.7
52.5°	7918.6	8579.3	9801.7	10487.2	10350.9	9054.2	7807.1	9310.2	10063.9	9917.3
55°	7726.5	8137.4	9209.1	9500.2	9479.6	8218.0	7363.1	8961.3	9686.0	9688.1
57.5°	6983.2	7053.4	7222.7	7216.5	7121.5	6460.8	6297.7	8240.7	8635.0	8420.3
60°	6153.1	5164.1	4707.8	4521.9	4416.6	4309.3	5570.9	7538.6	7575.8	7484.9
62.5°	5316.9	3580.4	2973.3	2921.7	2946.5	3338.8	5385.0	7259.9	7036.9	6840.7
65°	4290.7	2609.9	2159.8	2091.7	2333.2	2756.5	4358.8	5566.7	5224.0	5060.9
67.5°	2694.6	1903.8	1459.8	1331.8	1622.9	1897.6	2863.9	3497.8	3113.7	2888.7
70°	1598.2	1063.4	660.7	592.6	666.9	1011.8	1604.4	1744.8	1443.3	1327.7
72.5°	629.8	390.2	183.8	156.9	163.1	355.1	590.5	576.1	435.7	388.2
75°	169.3	117.7	64.0	51.6	43.4	66.1	95.0	61.9	22.7	28.9
77.5°	78.5	70.2	55.7	43.4	33.0	24.8	12.4	4.1	4.1	2.1
80°	68.1	59.9	51.6	43.4	33.0	20.6	10.3	2.1	2.1	2.1
82.5°	64.0	55.7	47.5	39.2	31.0	20.6	10.3	2.1	0.0	0.0
85°	26.8	35.1	39.2	37.2	33.0	20.6	10.3	2.1	0.0	0.0
87.5°	14.5	12.4	10.3	8.3	6.2	4.1	4.1	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

(END OF REPORT)