

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: P529485

Luminaire Tested: **GALN-SA4C-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529485  
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-SA4C-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA 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: 11303 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

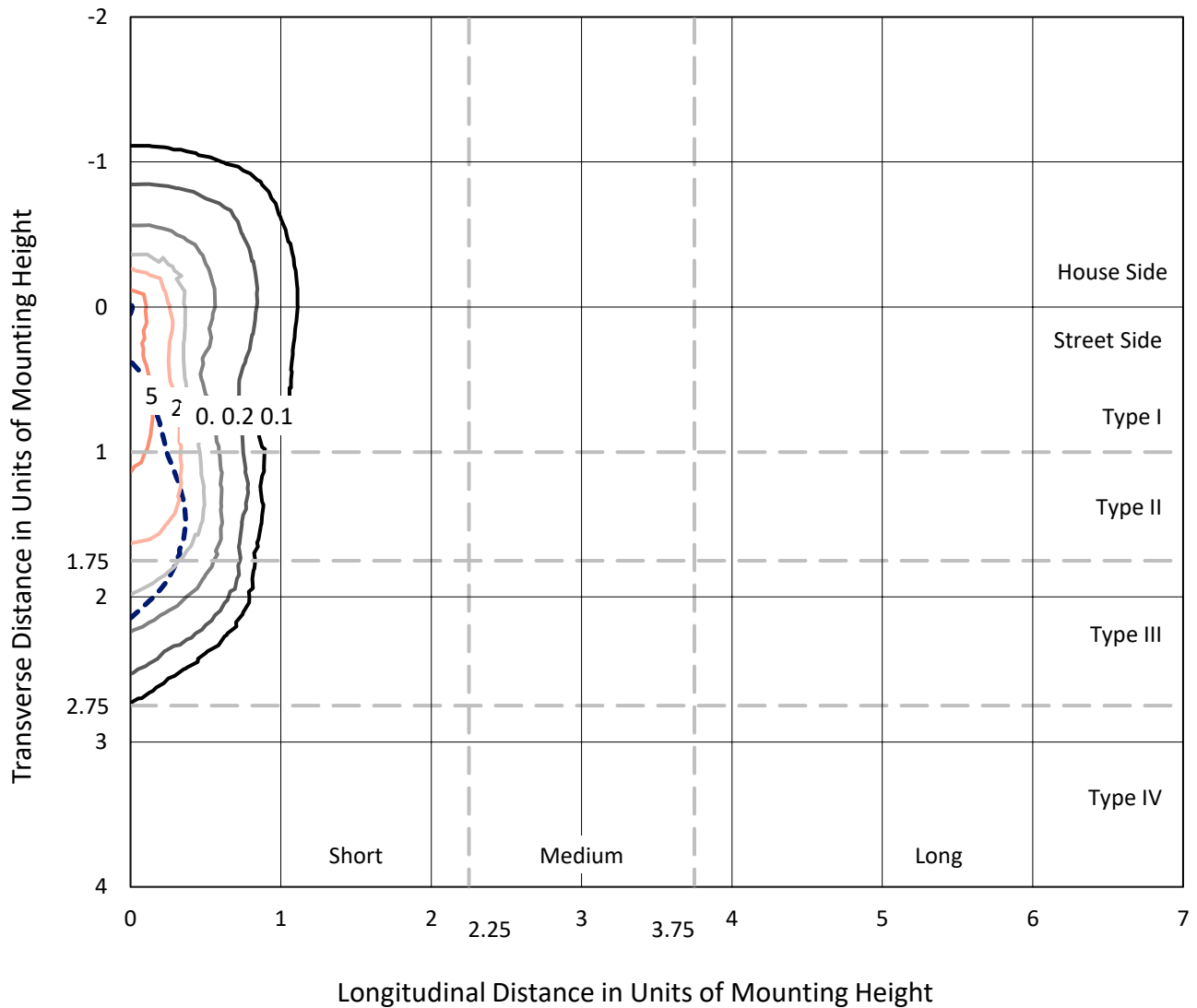
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

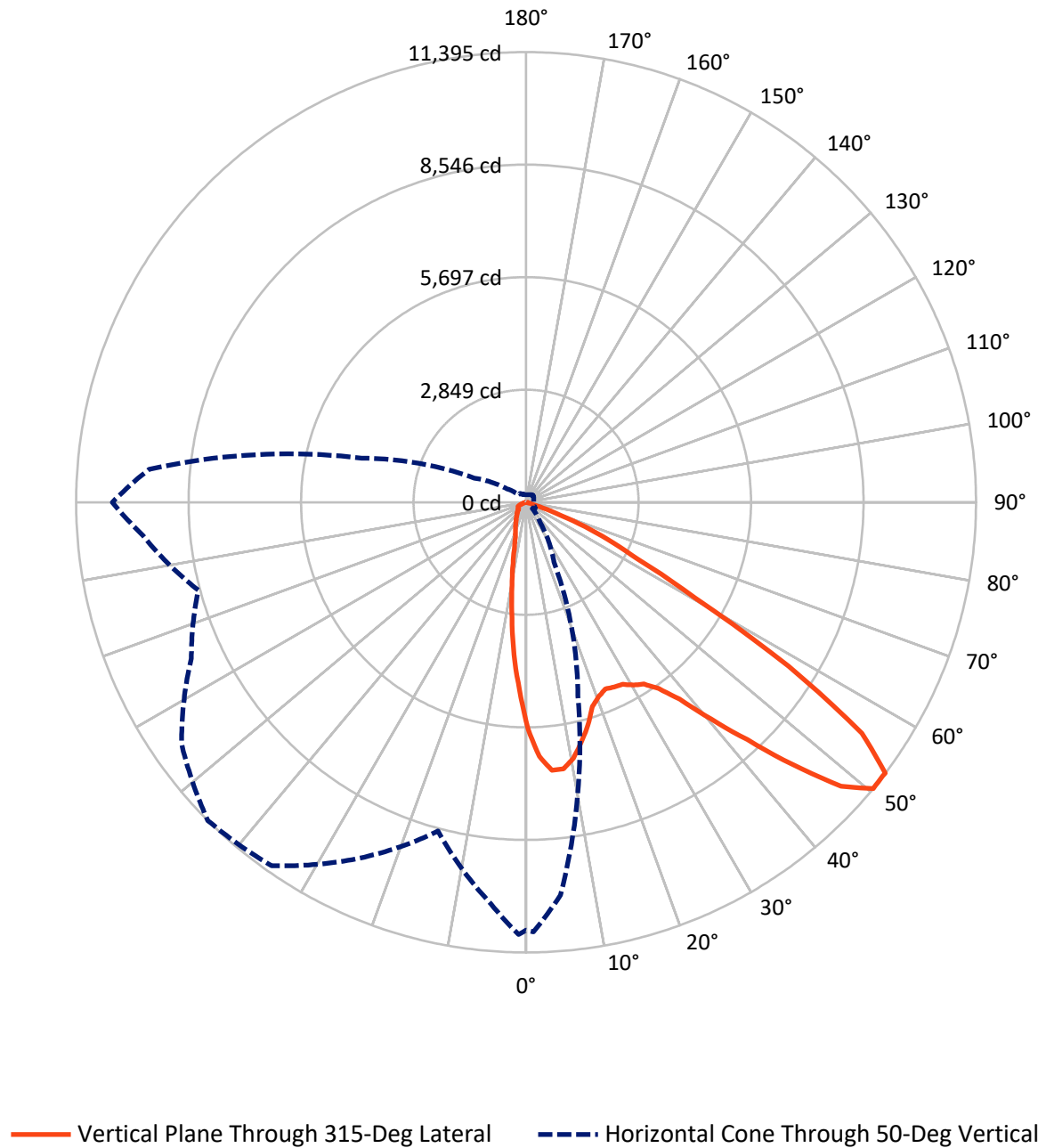
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	2264.0	0.0	2264.0
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	9039.0	0.0	9039.0
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	11303.0	0.0	11303.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.8	3.7
10°-20°	830.4	7.3
20°-30°	1247.5	11.0
30°-40°	1872.4	16.6
40°-50°	2631.5	23.3
50°-60°	2838.6	25.1
60°-70°	1317.9	11.7
70°-80°	124.0	1.1
80°-90°	22.9	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°	11303.0	100.0
0°-180°	11303.0	100.0

**Coefficient of Utilization**

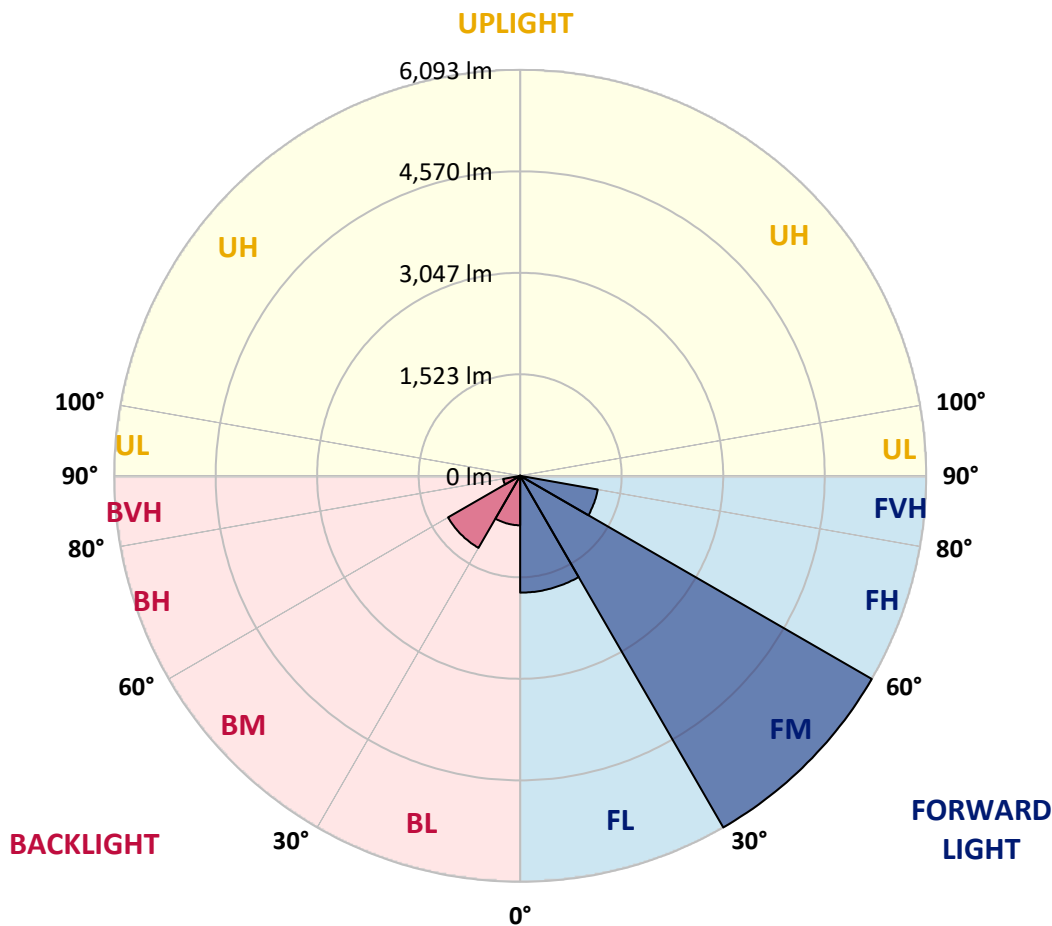


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1753.6	15.5			
FM (30°-60°)	6093.2	53.9			
FH (60°-80°)	1182.0	10.5			G1/1800
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	742.1	6.6	B2/1000		
BM (30°-60°)	1249.4	11.1	B2/2500		
BH (60°-80°)	260.0	2.3	B1/500		G1/500
BVH (80°-90°)	12.6	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°	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0
2.5°	5958.5	5866.6	5750.0	5653.6	5510.0	5220.7	5142.2	5048.1	4969.6	4864.2	4716.2
5°	5418.1	5388.9	5335.1	4971.8	4709.4	4359.6	4072.5	3951.4	3792.2	3662.1	3568.0
7.5°	5005.4	4888.8	4718.4	4352.9	3933.5	3559.0	3240.5	3054.4	2843.6	2771.8	2644.0
10°	4563.7	4590.6	4339.4	3825.8	3319.0	3016.3	2818.9	2639.5	2448.9	2323.3	2141.7
12.5°	4422.4	4334.9	4142.1	3507.4	3074.6	2792.0	2552.1	2330.0	2128.2	1926.4	1751.5
15°	4514.3	4379.8	4110.7	3440.1	2886.2	2534.1	2233.6	1933.1	1747.0	1489.1	1307.4
17.5°	4844.0	4736.3	4375.3	3511.9	2789.8	2287.4	1841.2	1531.7	1246.9	1013.6	921.7
20°	5393.4	5240.9	4787.9	3603.8	2646.2	1989.2	1493.6	1112.3	843.2	744.5	693.0
22.5°	5931.6	5848.7	5276.8	3781.0	2518.4	1724.5	1121.3	749.0	630.2	612.2	578.6
25°	6956.5	6707.6	6023.6	4101.7	2419.7	1475.6	845.5	603.3	533.7	520.3	524.8
27.5°	7566.5	7357.9	6714.3	4314.7	2309.9	1285.0	715.4	553.9	506.8	477.7	466.5
30°	8151.8	7909.6	7057.4	4440.3	2074.4	1083.2	634.7	531.5	520.3	477.7	464.2
32.5°	8602.6	8364.8	7553.0	4628.7	1978.0	953.1	522.5	414.9	385.7	381.2	421.6
35°	9293.3	9039.9	7976.9	4731.9	1904.0	885.8	453.0	370.0	336.4	322.9	325.2
37.5°	9936.9	9764.2	8369.3	4772.2	1825.5	865.6	405.9	331.9	302.7	293.8	291.5
40°	10475.1	10089.4	8741.6	4814.8	1791.8	827.5	376.8	302.7	282.6	269.1	269.1
42.5°	10721.8	10329.3	9158.7	4790.2	1782.9	767.0	376.8	278.1	262.4	248.9	246.7
45°	10668.0	10508.8	9344.8	4778.9	1782.9	706.4	343.1	271.4	248.9	231.0	226.5
47.5°	10807.0	10598.5	9578.1	4826.0	1747.0	663.8	289.3	284.8	235.5	213.0	208.6
50°	10831.7	10872.0	9984.0	5070.5	1668.5	610.0	226.5	280.3	226.5	192.9	188.4
52°	10993.1	10742.0	10107.3	5200.6	1585.5	569.6	190.6	240.0	217.5	179.4	174.9
52.5°	10771.1	10934.8	10136.5	5247.6	1594.5	542.7	183.9	235.5	213.0	179.4	168.2
55°	10522.2	10679.2	10017.6	5348.6	1462.2	426.1	143.5	170.4	192.9	157.0	150.3
57.5°	9145.3	9304.5	8705.7	4897.8	1190.8	300.5	118.9	127.8	170.4	145.8	139.0
60°	8129.4	8015.0	7306.3	4086.0	845.5	168.2	94.2	98.7	186.1	134.6	132.3
62.5°	7429.7	7185.2	6106.6	3155.3	515.8	112.1	74.0	76.2	143.5	125.6	125.6
65°	5496.6	5223.0	4056.8	1908.4	253.4	78.5	56.1	60.5	89.7	107.6	107.6
67.5°	3137.4	3032.0	1960.0	861.2	105.4	49.3	42.6	47.1	69.5	87.5	83.0
70°	1442.0	1294.0	753.5	181.6	49.3	33.6	33.6	38.1	56.1	65.0	60.5
72.5°	421.6	399.2	183.9	29.2	20.2	20.2	22.4	29.2	42.6	49.3	44.9
75°	31.4	20.2	13.5	9.0	9.0	13.5	17.9	29.2	42.6	47.1	38.1
77.5°	2.2	4.5	2.2	2.2	6.7	13.5	20.2	35.9	56.1	58.3	42.6
80°	2.2	2.2	0.0	2.2	6.7	13.5	22.4	40.4	62.8	67.3	35.9
82.5°	0.0	0.0	0.0	2.2	9.0	17.9	26.9	42.6	58.3	71.8	38.1
85°	0.0	0.0	0.0	2.2	13.5	24.7	31.4	11.2	6.7	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°	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0
2.5°	4821.6	4763.2	4740.8	4761.0	4754.3	4747.6	4870.9	4844.0	4839.5	4879.9	4870.9
5°	3619.5	3516.4	3798.9	3684.6	3803.4	3875.2	3888.6	3895.4	3978.3	3890.9	4005.3
7.5°	2579.0	2605.9	2603.6	2679.9	2816.7	2937.8	3009.5	2953.5	2949.0	2937.8	2888.4
10°	2060.9	2013.8	2004.9	1986.9	2029.5	2132.7	2220.2	2150.6	2101.3	2168.6	2148.4
12.5°	1684.2	1619.1	1583.3	1511.5	1513.7	1583.3	1583.3	1583.3	1632.6	1670.7	1699.9
15°	1291.7	1237.9	1237.9	1166.1	1150.4	1152.7	1188.6	1193.1	1271.5	1294.0	1305.2
17.5°	903.8	874.6	908.2	937.4	919.5	923.9	937.4	941.9	953.1	944.1	966.6
20°	695.2	690.7	699.7	751.3	789.4	811.8	796.1	773.7	760.2	728.8	728.8
22.5°	589.8	598.8	614.5	657.1	706.4	719.9	701.9	650.3	610.0	605.5	607.7
25°	524.8	533.7	558.4	585.3	612.2	634.7	616.7	578.6	556.2	536.0	536.0
27.5°	484.4	488.9	502.3	522.5	544.9	562.9	556.2	536.0	511.3	502.3	482.2
30°	453.0	459.7	475.4	479.9	500.1	509.1	497.9	493.4	477.7	466.5	459.7
32.5°	437.3	435.1	446.3	450.8	453.0	459.7	446.3	453.0	450.8	432.8	426.1
35°	329.7	347.6	376.8	401.4	408.2	417.1	414.9	405.9	381.2	361.1	336.4
37.5°	296.0	307.2	322.9	343.1	370.0	381.2	376.8	354.3	325.2	311.7	307.2
40°	273.6	280.3	293.8	307.2	334.1	354.3	338.6	318.4	296.0	284.8	278.1
42.5°	253.4	255.7	262.4	275.8	296.0	327.4	300.5	273.6	264.6	257.9	253.4
45°	231.0	231.0	240.0	246.7	269.1	298.3	271.4	246.7	242.2	237.7	235.5
47.5°	213.0	215.3	219.8	228.7	246.7	266.9	248.9	228.7	217.5	215.3	210.8
50°	190.6	192.9	201.8	210.8	233.2	244.4	233.2	210.8	199.6	192.9	192.9
52°	172.7	179.4	188.4	206.3	222.0	240.0	226.5	201.8	188.4	181.6	177.2
52.5°	170.4	174.9	183.9	204.1	222.0	237.7	224.3	199.6	183.9	179.4	174.9
55°	152.5	159.2	174.9	199.6	219.8	237.7	219.8	197.3	174.9	163.7	159.2
57.5°	145.8	150.3	170.4	201.8	217.5	237.7	219.8	197.3	174.9	154.7	150.3
60°	139.0	148.0	170.4	195.1	215.3	240.0	222.0	195.1	170.4	145.8	145.8
62.5°	132.3	139.0	168.2	190.6	206.3	231.0	213.0	190.6	163.7	139.0	136.8
65°	114.4	125.6	148.0	159.2	177.2	199.6	181.6	166.0	143.5	123.3	121.1
67.5°	87.5	91.9	109.9	123.3	134.6	154.7	145.8	125.6	109.9	94.2	94.2
70°	60.5	65.0	78.5	85.2	96.4	107.6	100.9	85.2	74.0	65.0	62.8
72.5°	42.6	44.9	49.3	53.8	58.3	62.8	60.5	49.3	42.6	40.4	38.1
75°	33.6	38.1	40.4	38.1	35.9	33.6	33.6	29.2	24.7	22.4	22.4
77.5°	33.6	35.9	33.6	29.2	24.7	22.4	20.2	17.9	13.5	11.2	13.5
80°	29.2	29.2	29.2	24.7	22.4	20.2	17.9	15.7	13.5	11.2	11.2
82.5°	31.4	31.4	29.2	24.7	24.7	20.2	20.2	17.9	15.7	11.2	11.2
85°	0.0	0.0	0.0	4.5	11.2	20.2	20.2	17.9	15.7	13.5	13.5
87.5°	0.0	0.0	0.0	0.0	2.2	4.5	9.0	11.2	13.5	13.5	13.5
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0
2.5°	4951.6	5036.8	5198.3	5359.8	5458.5	5575.1	5785.9	5898.0	6043.8	6115.5	6256.8
5°	3989.6	4191.4	4263.2	4447.0	4644.4	4841.7	5155.7	5501.1	5788.1	5985.5	6241.1
7.5°	2910.9	2958.0	3236.0	3359.4	3682.3	4041.1	4469.5	4904.5	5267.8	5590.8	5785.9
10°	2182.0	2354.7	2529.6	2765.1	3025.2	3395.3	3805.7	4285.6	4756.5	5079.5	5326.1
12.5°	1753.7	1890.5	2123.7	2377.1	2697.8	2942.3	3354.9	3830.3	4440.3	4756.5	5081.7
15°	1327.6	1502.5	1767.2	2029.5	2368.2	2626.1	3043.2	3642.0	4426.9	4861.9	5142.2
17.5°	984.5	1103.4	1341.1	1634.8	1980.2	2343.5	2906.4	3621.8	4577.1	5095.2	5384.4
20°	753.5	793.9	944.1	1206.5	1581.0	2056.4	2684.4	3709.2	5021.1	5662.5	5956.3
22.5°	610.0	627.9	686.2	867.9	1231.2	1805.3	2579.0	3769.8	5521.2	6342.0	6734.5
25°	531.5	527.0	565.1	643.6	962.1	1569.8	2444.4	3998.5	6133.5	7140.4	7492.5
27.5°	484.4	484.4	502.3	558.4	798.4	1417.3	2359.2	4162.2	6750.2	7842.3	8032.9
30°	459.7	464.2	515.8	533.7	663.8	1235.7	2217.9	4328.2	7340.0	8290.8	8553.2
32.5°	426.1	408.2	396.9	441.8	558.4	1072.0	2076.6	4397.7	7817.6	8840.3	9064.5
35°	327.4	318.4	331.9	365.5	479.9	932.9	1919.7	4476.2	8367.1	9477.2	9522.0
37.5°	296.0	293.8	302.7	331.9	403.7	811.8	1807.5	4456.0	8786.4	10004.2	9883.1
40°	273.6	273.6	280.3	305.0	361.1	726.6	1690.9	4438.1	9192.4	10596.2	10241.9
42.5°	255.7	255.7	266.9	282.6	343.1	670.5	1603.4	4413.4	9533.2	10959.5	10452.7
45°	231.0	237.7	255.7	271.4	347.6	632.4	1538.4	4319.2	9649.8	10955.0	10351.8
47.5°	213.0	222.0	240.0	262.4	314.0	621.2	1493.6	4236.2	9609.5	10685.9	10035.6
50°	192.9	204.1	228.7	266.9	266.9	598.8	1446.5	4310.2	9580.3	10477.4	9732.8
52°	179.4	188.4	219.8	260.1	233.2	551.7	1417.3	4453.8	9699.2	10450.4	9598.3
52.5°	177.2	183.9	213.0	255.7	222.0	542.7	1397.1	4487.4	9737.3	10383.2	9690.2
55°	157.0	166.0	195.1	199.6	181.6	446.3	1332.1	4563.7	9548.9	10250.9	9602.7
57.5°	148.0	152.5	172.7	163.7	157.0	336.4	1146.0	4444.8	8481.5	9104.9	8934.5
60°	136.8	141.3	161.5	127.8	132.3	235.5	861.2	3859.5	6810.7	7586.7	7893.9
62.5°	132.3	130.1	152.5	103.2	112.1	170.4	607.7	3137.4	5247.6	6245.6	6777.1
65°	116.6	114.4	109.9	87.5	96.4	132.3	363.3	2047.5	3698.0	4725.1	5016.7
67.5°	89.7	94.2	80.7	69.5	80.7	103.2	201.8	917.2	1939.8	2834.6	3070.1
70°	62.8	67.3	65.0	60.5	71.8	85.2	116.6	314.0	802.8	1489.1	1641.6
72.5°	38.1	47.1	49.3	51.6	62.8	74.0	83.0	100.9	213.0	527.0	654.8
75°	22.4	31.4	38.1	44.9	51.6	62.8	69.5	71.8	74.0	98.7	159.2
77.5°	15.7	22.4	33.6	42.6	51.6	62.8	74.0	78.5	74.0	69.5	74.0
80°	13.5	22.4	31.4	40.4	53.8	65.0	74.0	74.0	71.8	62.8	67.3
82.5°	13.5	22.4	33.6	42.6	51.6	62.8	71.8	74.0	67.3	62.8	65.0
85°	15.7	24.7	35.9	44.9	56.1	51.6	47.1	38.1	35.9	29.2	31.4
87.5°	15.7	22.4	22.4	24.7	26.9	26.9	26.9	24.7	20.2	17.9	17.9
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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CATALOG NUMBER: GALN-SA4C-827-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0	5732.0
2.5°	6263.5	6442.9	6436.2	6440.7	6413.8	6232.1	6144.7	5922.7	5985.5	5958.5
5°	6503.5	6680.7	6833.2	6815.2	6608.9	6362.2	5996.7	5651.3	5557.1	5418.1
7.5°	6263.5	6689.6	6830.9	6810.7	6505.7	6189.5	5606.5	5261.1	5097.4	5005.4
10°	5882.3	6375.7	6550.6	6586.5	6380.2	5900.2	5364.3	4810.3	4722.9	4563.7
12.5°	5664.8	6023.6	6131.2	6227.7	6155.9	5797.1	5180.4	4648.9	4527.8	4422.4
15°	5487.6	5700.6	5745.5	5855.4	5898.0	5705.1	5276.8	4823.8	4525.5	4514.3
17.5°	5651.3	5563.9	5400.1	5433.8	5568.3	5707.4	5525.7	5169.2	4879.9	4844.0
20°	5922.7	5536.9	5166.9	5249.9	5362.0	5788.1	5902.5	5651.3	5485.4	5393.4
22.5°	6234.4	5584.0	5092.9	5133.3	5346.3	5969.8	6512.5	6373.4	6063.9	5931.6
25°	6810.7	5714.1	5151.2	5178.1	5469.7	6223.2	7064.1	7167.3	6983.4	6956.5
27.5°	7373.6	6050.5	5279.0	5218.5	5532.5	6469.9	7398.3	7952.2	7629.3	7566.5
30°	7660.7	6324.1	5469.7	5366.5	5792.6	6620.1	7600.1	8463.5	8180.9	8151.8
32.5°	8100.2	6573.0	5617.7	5485.4	5938.4	6806.2	7976.9	9021.9	8748.3	8602.6
35°	8284.1	6844.4	5942.8	5788.1	6355.5	7066.4	8169.7	9519.8	9434.6	9293.3
37.5°	8638.4	7135.9	6326.3	6317.4	6860.1	7405.0	8517.3	10197.0	10181.3	9936.9
40°	8667.6	7454.4	6931.8	7214.4	7640.5	7994.8	8822.3	10385.4	10641.1	10475.1
42.5°	8712.4	8012.8	7979.1	8212.3	8577.9	8501.6	8833.5	10430.3	10820.5	10721.8
45°	8732.6	8571.2	9044.3	9474.9	9627.4	9165.4	8728.1	10345.0	10914.7	10668.0
47.5°	8571.2	9051.1	9905.5	10737.5	10782.3	9573.6	8683.3	10257.6	10970.7	10807.0
50°	8593.6	9351.6	10650.0	11394.6	11230.9	9934.6	8613.8	10203.8	10941.6	10831.7
52°	8539.8	9358.3	10755.4	11381.1	11266.7	9735.1	8494.9	9997.4	10914.7	10993.1
52.5°	8600.3	9317.9	10645.5	11390.1	11242.1	9833.7	8479.2	10111.8	10930.4	10771.1
55°	8391.8	8838.0	10001.9	10318.1	10295.7	8925.5	7997.1	9732.8	10520.0	10522.2
57.5°	7584.4	7660.7	7844.6	7837.8	7734.7	7017.0	6839.9	8950.2	9378.5	9145.3
60°	6682.9	5608.7	5113.1	4911.3	4796.9	4680.3	6050.5	8187.7	8228.0	8129.4
62.5°	5774.7	3888.6	3229.3	3173.3	3200.2	3626.3	5848.7	7884.9	7642.7	7429.7
65°	4660.1	2834.6	2345.7	2271.7	2534.1	2993.9	4734.1	6046.0	5673.7	5496.6
67.5°	2926.6	2067.7	1585.5	1446.5	1762.7	2060.9	3110.5	3798.9	3381.8	3137.4
70°	1735.8	1154.9	717.6	643.6	724.4	1098.9	1742.5	1895.0	1567.6	1442.0
72.5°	684.0	423.8	199.6	170.4	177.2	385.7	641.4	625.7	473.2	421.6
75°	183.9	127.8	69.5	56.1	47.1	71.8	103.2	67.3	24.7	31.4
77.5°	85.2	76.2	60.5	47.1	35.9	26.9	13.5	4.5	4.5	2.2
80°	74.0	65.0	56.1	47.1	35.9	22.4	11.2	2.2	2.2	2.2
82.5°	69.5	60.5	51.6	42.6	33.6	22.4	11.2	2.2	0.0	0.0
85°	29.2	38.1	42.6	40.4	35.9	22.4	11.2	2.2	0.0	0.0
87.5°	15.7	13.5	11.2	9.0	6.7	4.5	4.5	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)