

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: P527458

Luminaire Tested: **GALN-SA2C-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-727-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8806 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

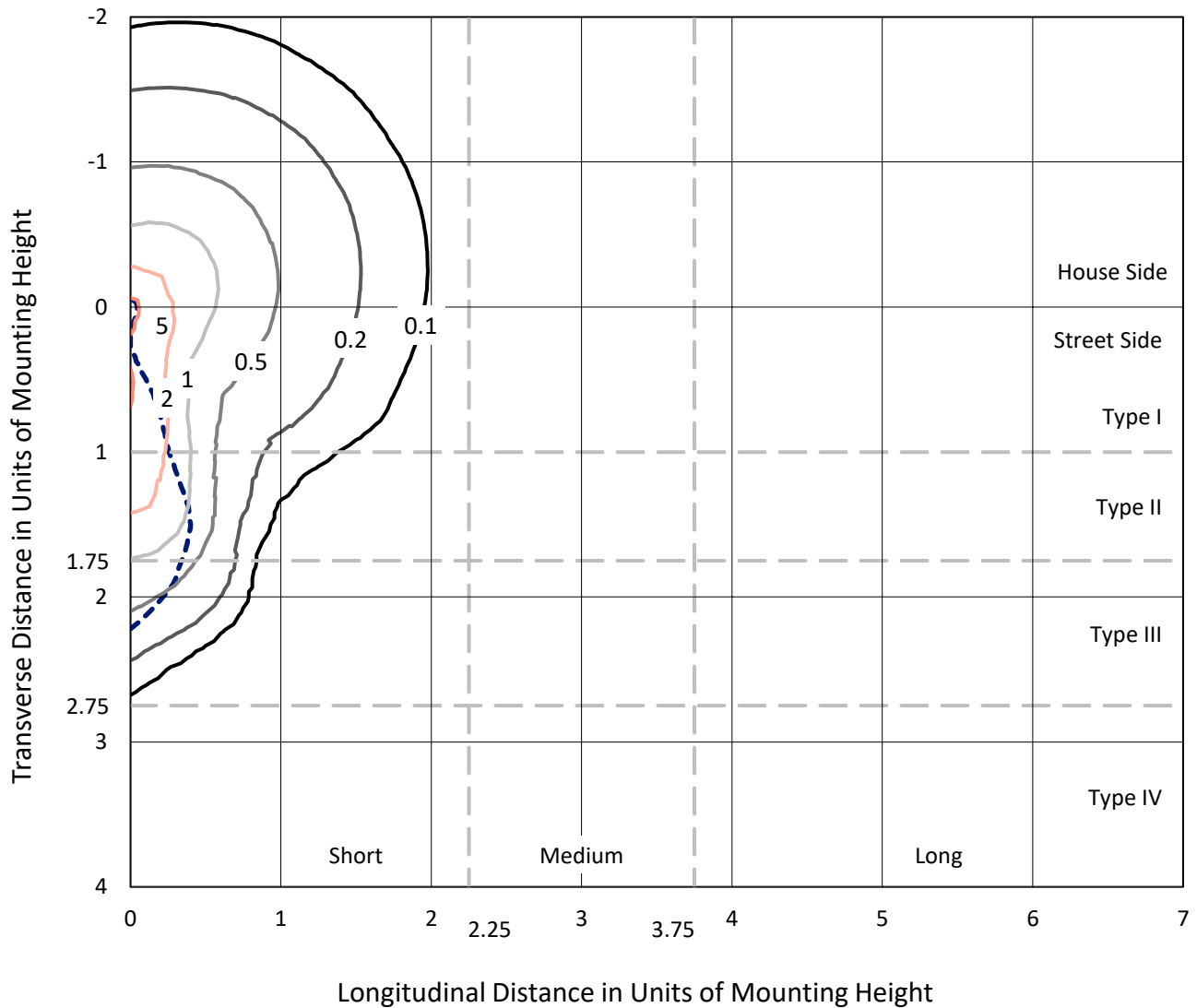
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

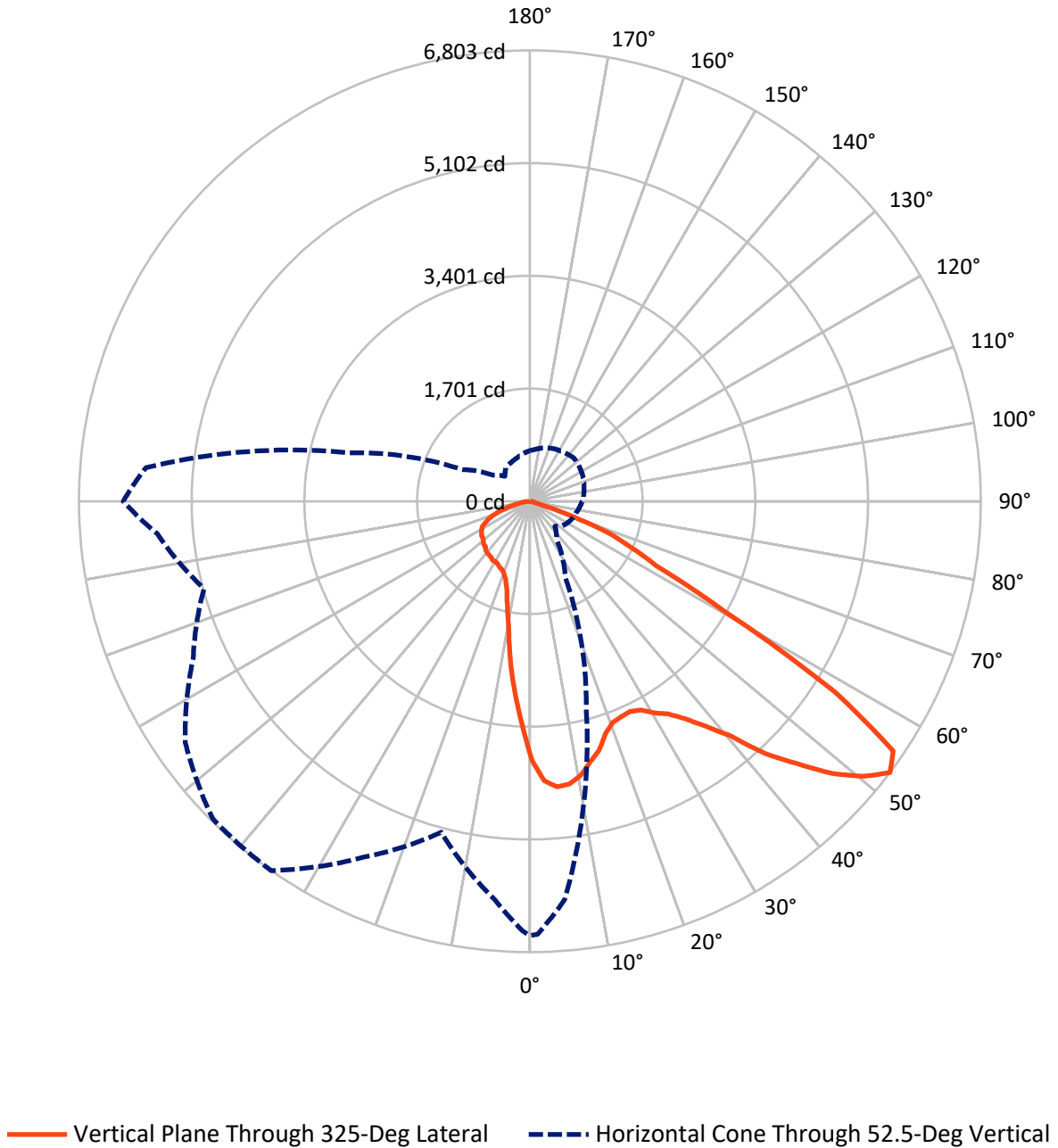
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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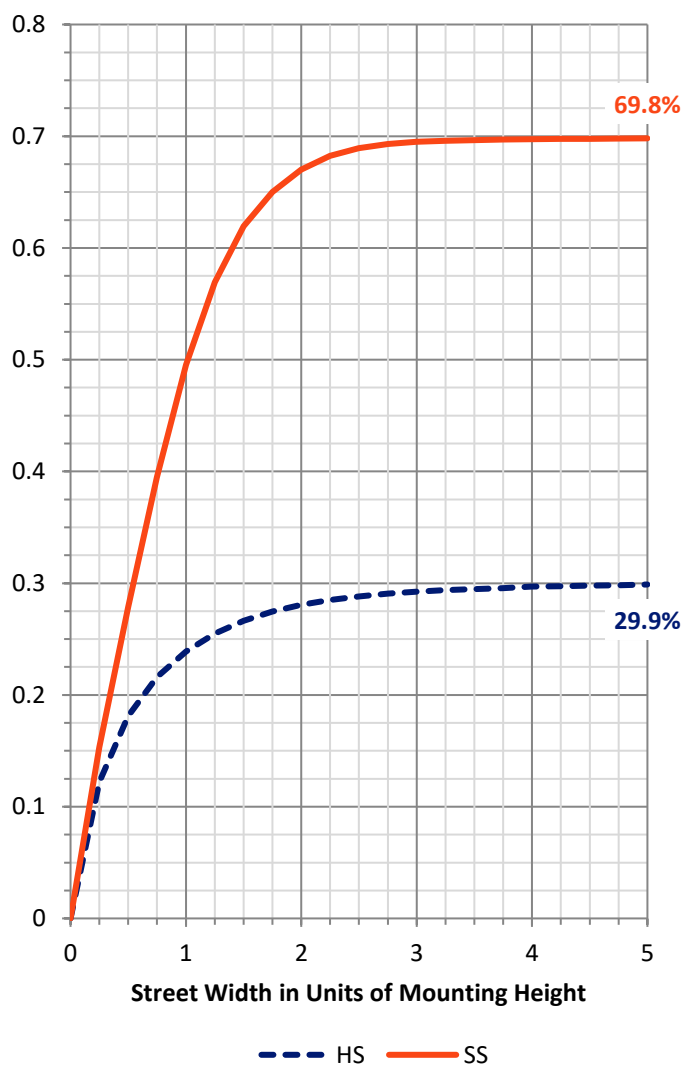
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2654.6	0.0	2654.6
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	6151.4	0.0	6151.4
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	8806.0	0.0	8806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.2	3.4
10°-20°	646.4	7.3
20°-30°	976.6	11.1
30°-40°	1411.2	16.0
40°-50°	1878.1	21.3
50°-60°	2100.7	23.9
60°-70°	1183.9	13.4
70°-80°	263.9	3.0
80°-90°	47.0	0.5
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°	8806.0	100.0
0°-180°	8806.0	100.0

**Coefficient of Utilization**



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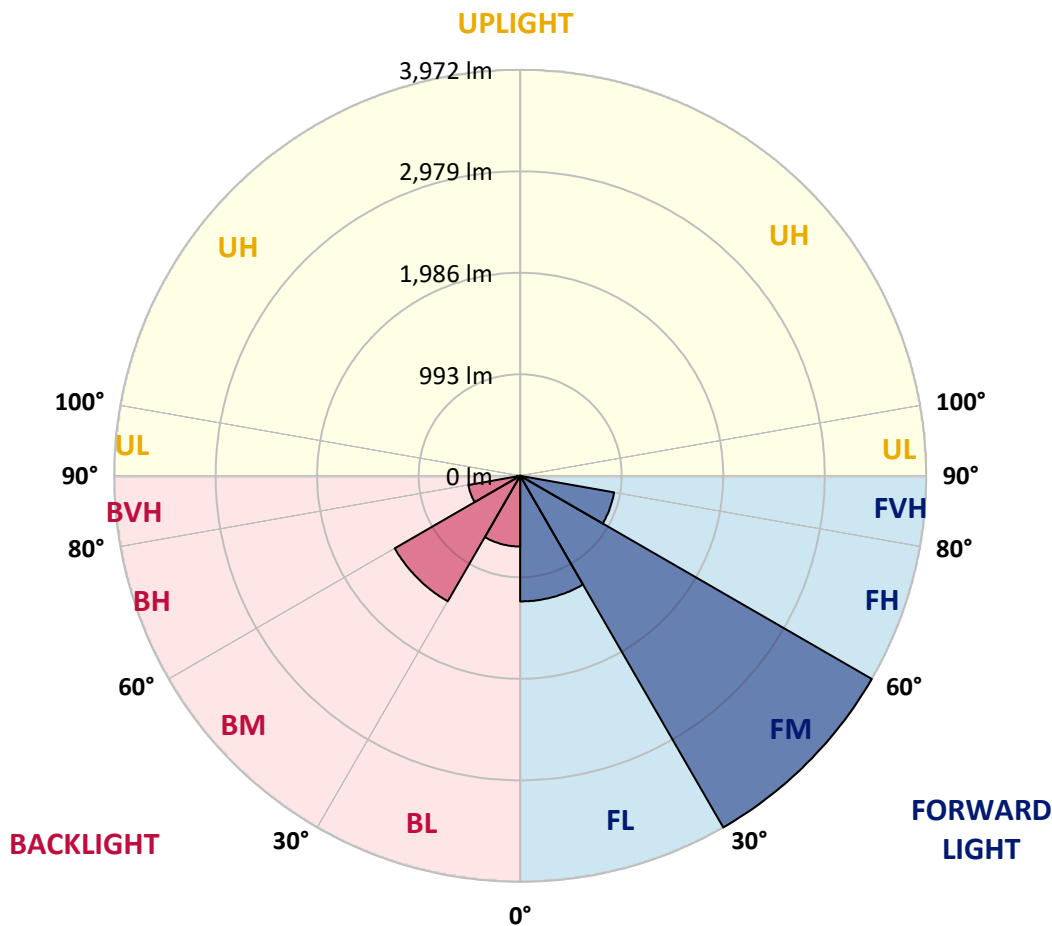
CATALOG NUMBER: GALN-SA2C-727-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.9	14.0			
FM (30°-60°)	3972.2	45.1			
FH (60°-80°)	933.3	10.6			G1/1800
FVH (80°-90°)	17.0	0.2			G1/100
BL (0°-30°)	692.3	7.9	B2/1000		
BM (30°-60°)	1417.8	16.1	B2/2500		
BH (60°-80°)	514.5	5.8	B2/1000		G2/1000
BVH (80°-90°)	30.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2
2.5°	3973.3	4037.1	3968.1	3845.6	3758.8	3679.7	3596.7	3580.1	3471.6	3452.5	3373.4
5°	3747.3	3733.3	3649.1	3488.2	3310.8	3150.0	3031.3	2916.4	2838.6	2748.0	2741.6
7.5°	3472.9	3391.2	3342.7	3099.0	2879.4	2626.7	2518.2	2343.4	2288.5	2206.8	2164.7
10°	3227.9	3167.9	3054.3	2810.5	2504.2	2337.0	2220.8	2126.4	2062.6	1978.3	1872.4
12.5°	3106.6	3082.4	2954.7	2576.9	2349.7	2171.1	2089.4	1997.5	1889.0	1753.7	1701.4
15°	3128.3	3046.6	2949.6	2532.3	2218.3	2046.0	1915.8	1800.9	1661.8	1532.9	1457.6
17.5°	3290.4	3227.9	3033.9	2560.3	2168.5	1919.6	1683.5	1513.7	1388.7	1272.5	1220.2
20°	3609.5	3518.9	3300.6	2596.1	2061.3	1743.5	1472.9	1263.6	1129.6	1068.3	1050.4
22.5°	3963.0	3909.4	3561.0	2676.5	1975.8	1580.1	1249.5	1040.2	990.4	973.8	1007.0
25°	4393.2	4254.0	3965.6	2808.0	1909.4	1441.0	1060.6	944.5	919.0	935.6	973.8
27.5°	4719.9	4682.9	4248.9	2931.8	1818.8	1273.8	954.7	878.1	885.8	902.4	938.1
30°	5107.9	4920.3	4523.4	3017.3	1737.1	1158.9	880.7	860.3	867.9	896.0	913.9
32.5°	5341.5	5271.3	4695.7	3146.2	1642.7	1059.4	823.2	804.1	815.6	857.7	899.8
35°	5638.9	5499.8	4908.8	3179.4	1576.3	1019.8	782.4	768.4	795.2	824.5	871.7
37.5°	5986.0	5890.3	5203.6	3156.4	1540.5	979.0	747.9	741.6	760.7	801.5	856.4
40°	6191.5	6162.2	5358.1	3170.4	1484.4	943.2	708.4	716.0	755.6	787.5	841.1
42.5°	6389.4	6197.9	5586.5	3165.3	1448.6	894.7	712.2	703.3	733.9	770.9	822.0
45°	6432.8	6242.6	5640.2	3129.6	1405.3	847.5	682.8	686.7	723.7	769.6	802.8
47.5°	6404.7	6264.3	5739.7	3119.4	1364.4	814.3	639.4	685.4	707.1	744.1	791.3
50°	6385.5	6377.9	5823.9	3167.9	1309.5	762.0	587.1	668.8	690.5	727.5	778.6
52.5°	6554.0	6537.4	6034.5	3295.5	1266.1	705.8	533.5	626.7	679.0	714.8	764.5
55°	6656.1	6583.4	6395.7	3452.5	1193.4	631.8	496.5	574.4	650.9	682.8	733.9
57.5°	5987.3	5937.5	5785.7	3222.8	1070.9	534.8	450.5	520.7	612.6	662.4	714.8
60°	4981.6	4903.7	4514.4	2739.0	790.1	416.1	422.5	478.6	602.4	621.6	682.8
62.5°	4696.9	4504.2	3974.5	2204.2	606.3	357.4	379.1	440.3	548.8	580.7	642.0
65°	3726.9	3584.0	2843.7	1591.6	405.9	310.2	345.9	396.9	473.5	536.1	592.2
67.5°	2333.2	2196.6	1517.6	753.0	283.3	265.5	308.9	362.5	425.0	481.2	543.7
70°	1218.9	1069.6	700.7	271.9	195.3	217.0	257.8	308.9	370.1	416.1	464.6
72.5°	454.4	368.9	228.5	117.4	135.3	165.9	209.3	246.3	289.7	345.9	372.7
75°	70.2	60.0	58.7	71.5	91.9	120.0	149.3	186.3	224.6	260.4	278.2
77.5°	33.2	31.9	35.7	47.2	61.3	85.5	108.5	144.2	174.9	197.8	208.0
80°	21.7	20.4	23.0	31.9	45.9	63.8	86.8	111.0	139.1	158.3	155.7
82.5°	12.8	14.0	14.0	21.7	31.9	45.9	62.5	84.2	103.4	120.0	109.8
85°	7.7	6.4	6.4	12.8	21.7	37.0	52.3	35.7	37.0	37.0	42.1
87.5°	2.6	2.6	2.6	1.3	2.6	2.6	3.8	6.4	7.7	8.9	11.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2
2.5°	3370.8	3410.4	3396.3	3346.6	3384.9	3391.2	3365.7	3453.8	3470.4	3443.6	3451.2
5°	2732.6	2742.9	2765.8	2814.3	2848.8	2889.6	2889.6	2892.2	2857.7	2944.5	2919.0
7.5°	2128.9	2135.3	2162.1	2265.5	2294.9	2372.7	2405.9	2382.9	2314.0	2284.7	2308.9
10°	1837.9	1800.9	1792.0	1804.7	1871.1	1904.3	1932.4	1924.7	1913.2	1890.3	1864.7
12.5°	1643.9	1617.1	1595.4	1564.8	1568.6	1600.5	1622.2	1604.4	1609.5	1614.6	1622.2
15°	1433.3	1414.2	1402.7	1356.8	1351.6	1373.3	1381.0	1391.2	1410.4	1411.6	1402.7
17.5°	1210.0	1193.4	1218.9	1244.4	1226.6	1227.8	1241.9	1250.8	1245.7	1222.7	1211.2
20°	1056.8	1074.7	1100.2	1124.5	1143.6	1155.1	1160.2	1146.2	1129.6	1082.3	1081.1
22.5°	1012.1	1035.1	1056.8	1093.8	1111.7	1141.0	1114.2	1082.3	1059.4	1036.4	1009.6
25°	979.0	998.1	1041.5	1055.5	1090.0	1114.2	1095.1	1063.2	1023.6	990.4	970.0
27.5°	954.7	976.4	1004.5	1042.8	1069.6	1083.6	1064.5	1051.7	1010.9	971.3	941.9
30°	939.4	962.4	1013.4	1045.3	1068.3	1079.8	1046.6	1031.3	1001.9	968.7	943.2
32.5°	929.2	949.6	993.0	1033.8	1049.2	1049.2	1054.3	1036.4	995.5	939.4	917.7
35°	896.0	924.1	959.8	1007.0	1035.1	1051.7	1026.2	1005.8	979.0	921.5	882.0
37.5°	876.8	896.0	941.9	986.6	1010.9	1028.7	1018.5	982.8	947.0	899.8	867.9
40°	856.4	887.1	927.9	970.0	996.8	1014.7	1007.0	964.9	921.5	876.8	855.1
42.5°	842.4	862.8	904.9	952.2	984.1	1018.5	995.5	943.2	912.6	851.3	827.1
45°	830.9	864.1	908.8	927.9	961.1	996.8	956.0	924.1	888.3	843.7	823.2
47.5°	816.9	847.5	876.8	927.9	943.2	959.8	952.2	901.1	870.5	822.0	807.9
50°	811.8	823.2	876.8	904.9	926.6	943.2	922.8	884.5	855.1	805.4	774.7
52.5°	791.3	813.0	847.5	884.5	911.3	931.7	898.5	874.3	834.7	782.4	763.3
55°	765.8	778.6	839.8	878.1	892.2	906.2	893.4	853.9	813.0	759.4	740.3
57.5°	732.6	762.0	811.8	865.4	883.2	890.9	870.5	838.6	787.5	740.3	709.6
60°	698.2	728.8	783.7	827.1	844.9	873.0	842.4	823.2	764.5	712.2	679.0
62.5°	663.7	698.2	739.0	793.9	809.2	820.7	813.0	786.2	739.0	680.3	639.4
65°	622.9	648.4	699.4	727.5	737.7	764.5	737.7	727.5	685.4	629.2	594.8
67.5°	561.6	583.3	628.0	654.8	662.4	673.9	672.6	661.1	613.9	575.6	545.0
70°	491.4	510.5	538.6	570.5	574.4	588.4	575.6	573.1	542.4	490.1	473.5
72.5°	394.4	412.3	449.3	463.3	464.6	469.7	463.3	454.4	446.7	391.8	375.2
75°	302.5	312.7	330.6	343.3	343.3	349.7	345.9	337.0	316.5	282.1	265.5
77.5°	210.6	220.8	243.8	251.4	250.2	252.7	241.2	232.3	201.7	183.8	169.8
80°	153.2	159.5	171.0	176.1	177.4	181.2	167.2	159.5	141.7	121.3	114.9
82.5°	111.0	114.9	116.1	122.5	122.5	116.1	112.3	104.7	91.9	79.1	74.0
85°	45.9	47.2	48.5	56.2	57.4	68.9	63.8	60.0	52.3	44.7	40.8
87.5°	11.5	12.8	16.6	14.0	16.6	16.6	17.9	20.4	20.4	16.6	16.6
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°	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2
2.5°	3480.6	3490.8	3621.0	3637.6	3701.4	3766.5	3897.9	3992.4	4069.0	4118.8	4132.8
5°	2945.8	3010.9	3070.9	3167.9	3255.9	3381.0	3525.3	3703.9	3928.6	4043.4	4089.4
7.5°	2306.3	2382.9	2469.7	2564.2	2693.1	2917.7	3110.4	3317.2	3604.4	3723.1	3903.1
10°	1882.6	1968.1	2083.0	2155.7	2311.5	2525.9	2750.5	2989.2	3263.6	3434.6	3642.7
12.5°	1664.3	1734.5	1840.5	1993.6	2109.8	2248.9	2416.1	2717.3	3110.4	3272.5	3415.5
15°	1423.1	1501.0	1623.5	1793.3	1932.4	2098.3	2285.9	2613.9	3032.6	3282.7	3404.0
17.5°	1224.0	1280.2	1409.1	1555.9	1715.4	1896.6	2166.0	2608.8	3114.3	3434.6	3632.5
20°	1086.2	1093.8	1164.0	1289.1	1506.1	1742.2	2091.9	2583.3	3375.9	3696.3	3946.4
22.5°	999.4	991.7	993.0	1098.9	1250.8	1590.3	1975.8	2670.1	3673.3	4112.4	4280.8
25°	956.0	935.6	922.8	945.8	1083.6	1410.4	1887.7	2785.0	3993.7	4455.7	4662.5
27.5°	933.0	897.3	871.7	875.6	976.4	1319.7	1832.8	2834.8	4311.5	4934.3	5007.1
30°	924.1	879.4	842.4	829.6	896.0	1193.4	1715.4	2920.3	4596.1	5197.3	5259.8
32.5°	892.2	837.3	801.5	790.1	816.9	1082.3	1631.2	2981.5	4847.5	5483.2	5461.5
35°	855.1	809.2	764.5	742.8	762.0	1010.9	1563.5	2952.2	5143.7	5705.2	5693.8
37.5°	851.3	791.3	754.3	718.6	717.3	922.8	1471.6	2980.3	5332.6	6103.5	5946.5
40°	818.1	779.8	731.3	702.0	685.4	878.1	1382.3	2913.9	5609.5	6264.3	6109.8
42.5°	819.4	762.0	719.9	685.4	668.8	813.0	1321.0	2896.0	5706.5	6525.9	6186.4
45°	799.0	742.8	707.1	666.3	657.3	763.3	1262.3	2813.1	5877.6	6538.7	6090.7
47.5°	778.6	728.8	690.5	642.0	621.6	745.4	1216.4	2744.1	5788.2	6418.7	5958.0
50°	764.5	707.1	671.4	636.9	579.5	714.8	1156.4	2727.5	5663.1	6256.6	5711.6
52.5°	740.3	689.2	652.2	625.4	533.5	686.7	1133.4	2824.5	5816.3	6135.4	5640.2
55°	717.3	665.0	617.7	565.4	495.2	612.6	1069.6	2915.2	6039.6	6414.9	5964.3
57.5°	693.1	643.3	592.2	529.7	458.2	536.1	1003.2	2931.8	5621.0	5928.6	5661.8
60°	661.1	597.3	559.0	477.4	418.6	444.2	795.2	2584.6	4360.0	4950.9	4959.9
62.5°	625.4	556.5	523.3	427.6	377.8	382.9	648.4	2172.3	3536.7	4098.3	4342.1
65°	578.2	511.8	472.2	395.7	348.4	331.8	474.8	1591.6	2686.7	3324.9	3601.8
67.5°	516.9	454.4	404.6	344.6	311.4	284.6	324.2	896.0	1586.5	2232.3	2316.6
70°	451.8	398.2	345.9	296.1	259.1	240.0	237.4	396.9	758.1	1201.0	1367.0
72.5°	356.1	317.8	275.7	238.7	214.4	186.3	169.8	164.6	256.5	488.8	675.2
75°	255.3	223.4	199.1	174.9	157.0	141.7	128.9	117.4	107.2	122.5	168.5
77.5°	160.8	149.3	130.2	123.8	113.6	109.8	104.7	98.3	90.6	85.5	85.5
80°	108.5	100.8	94.4	93.2	89.3	88.1	89.3	83.0	75.3	68.9	71.5
82.5°	72.8	71.5	70.2	68.9	70.2	71.5	74.0	72.8	66.4	62.5	63.8
85°	43.4	45.9	48.5	51.1	56.2	49.8	40.8	34.5	30.6	28.1	26.8
87.5°	16.6	23.0	20.4	19.1	20.4	19.1	17.9	16.6	14.0	12.8	12.8
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: P527458

CATALOG NUMBER: GALN-SA2C-727-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2	3908.2
2.5°	4226.0	4251.5	4273.2	4268.1	4223.4	4163.4	4139.2	4015.4	3989.8	3973.3
5°	4283.4	4431.5	4463.4	4444.2	4328.1	4181.3	4038.3	3857.1	3751.2	3747.3
7.5°	4177.5	4360.0	4417.4	4460.8	4306.4	4051.1	3806.0	3534.2	3467.8	3472.9
10°	3908.2	4199.2	4340.8	4385.5	4208.1	3987.3	3647.8	3372.1	3230.4	3227.9
12.5°	3758.8	3987.3	4026.9	4089.4	4037.1	3813.7	3555.9	3247.0	3109.2	3106.6
15°	3626.1	3776.7	3788.2	3876.2	3904.3	3753.7	3580.1	3250.8	3139.8	3128.3
17.5°	3742.2	3637.6	3594.2	3605.7	3688.6	3743.5	3720.5	3467.8	3354.2	3290.4
20°	3820.1	3586.5	3455.1	3467.8	3566.1	3766.5	3929.9	3781.8	3601.8	3609.5
22.5°	4028.1	3594.2	3388.7	3374.6	3530.4	3886.5	4166.0	4178.7	4005.2	3963.0
25°	4339.6	3682.2	3368.3	3364.4	3513.8	4015.4	4441.7	4648.4	4471.0	4393.2
27.5°	4589.7	3820.1	3432.1	3444.8	3566.1	4120.0	4676.5	4950.9	4815.6	4719.9
30°	4809.3	3963.0	3521.4	3462.7	3706.5	4174.9	4777.3	5295.5	5187.1	5107.9
32.5°	4899.9	4166.0	3663.1	3566.1	3822.6	4241.3	4986.7	5629.9	5536.8	5341.5
35°	5053.0	4279.6	3739.7	3732.0	4025.6	4400.8	5084.9	5850.7	5812.5	5638.9
37.5°	5175.6	4394.4	4011.5	3927.3	4303.8	4668.9	5243.2	6155.8	6067.7	5986.0
40°	5270.0	4599.9	4265.5	4376.6	4645.9	4912.6	5388.7	6174.9	6428.9	6191.5
42.5°	5183.2	4783.7	4682.9	4948.4	5203.6	5190.9	5405.3	6323.0	6513.2	6389.4
45°	5161.5	5095.2	5342.8	5584.0	5642.7	5421.9	5286.6	6159.6	6487.6	6432.8
47.5°	5109.2	5401.5	5832.9	6226.0	6136.6	5576.3	5144.9	6130.3	6503.0	6404.7
50°	5091.3	5467.8	6195.4	6578.3	6524.7	5710.4	5078.6	5941.4	6394.5	6385.5
52.5°	5090.0	5604.4	6346.0	6769.7	6802.9	5922.2	5169.2	6037.1	6478.7	6554.0
55°	5147.5	5561.0	6326.8	6663.8	6651.0	5827.8	5179.4	6100.9	6582.1	6656.1
57.5°	4855.2	4981.6	5221.5	5488.3	5419.3	4827.1	4625.5	5640.2	6040.9	5987.3
60°	4192.8	3797.1	3526.5	3513.8	3379.8	3194.7	3785.6	5033.9	5033.9	4981.6
62.5°	3672.0	2492.7	2141.7	2042.1	2137.9	2351.0	3651.6	4896.0	4756.9	4696.9
65°	3211.3	1903.0	1548.2	1520.1	1686.0	2007.7	3301.9	4171.1	3926.0	3726.9
67.5°	2066.4	1393.8	1151.3	1101.5	1301.9	1474.2	2197.9	2565.4	2411.0	2333.2
70°	1332.5	907.5	640.7	601.2	679.0	908.8	1404.0	1495.9	1271.2	1218.9
72.5°	630.5	391.8	224.6	185.1	208.0	347.2	555.2	597.3	496.5	454.4
75°	200.4	144.2	91.9	79.1	75.3	89.3	127.6	98.3	71.5	70.2
77.5°	89.3	85.5	72.8	61.3	53.6	44.7	37.0	30.6	31.9	33.2
80°	74.0	67.6	60.0	53.6	44.7	34.5	26.8	20.4	20.4	21.7
82.5°	65.1	58.7	52.3	44.7	38.3	28.1	20.4	14.0	12.8	12.8
85°	28.1	33.2	35.7	38.3	30.6	23.0	14.0	8.9	7.7	7.7
87.5°	11.5	10.2	8.9	7.7	6.4	6.4	5.1	3.8	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)