

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: P456236

Luminaire Tested: **GALN-SA7C-727-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456236  
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-SA7C-727-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA 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: 29410 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

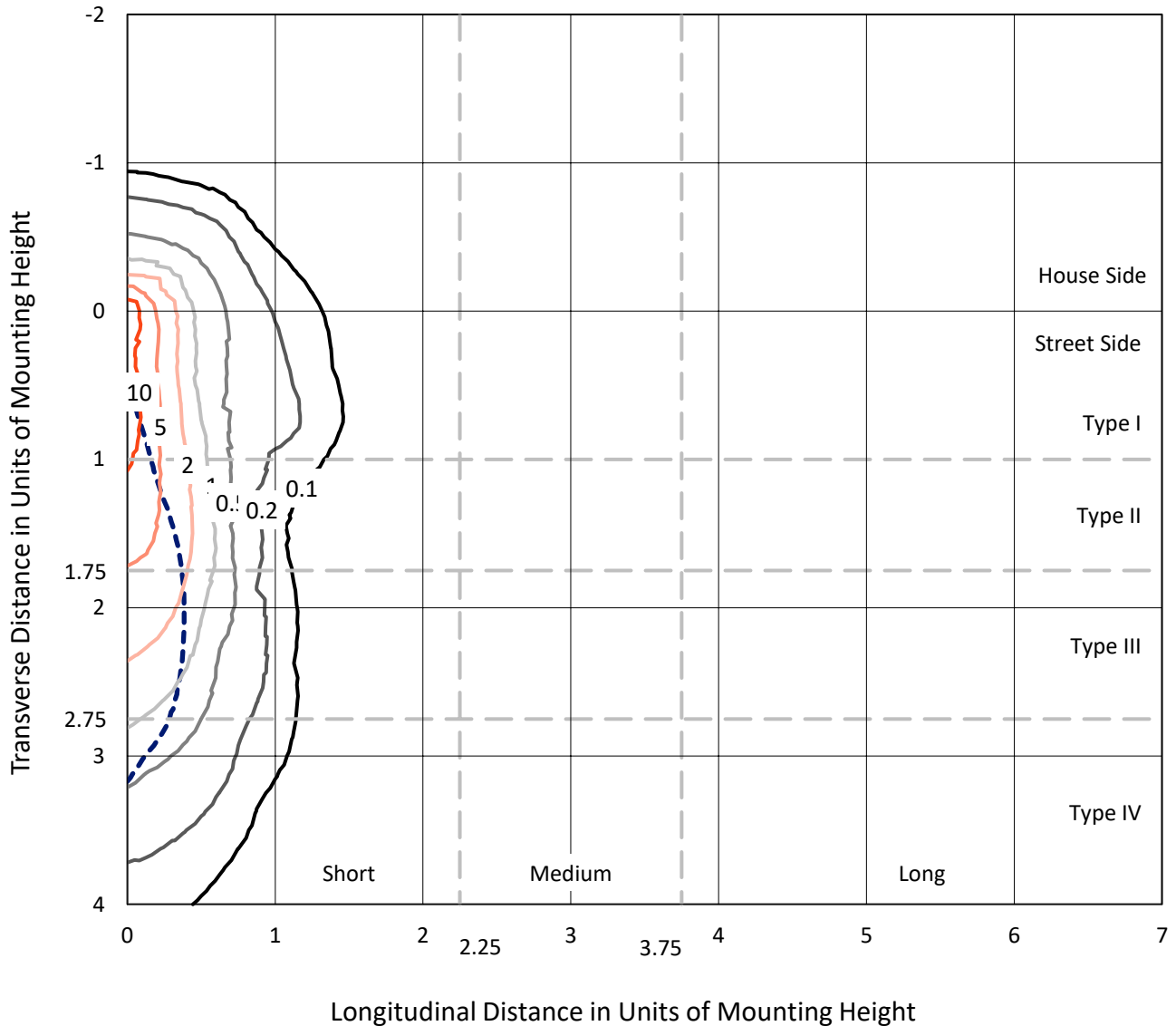
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

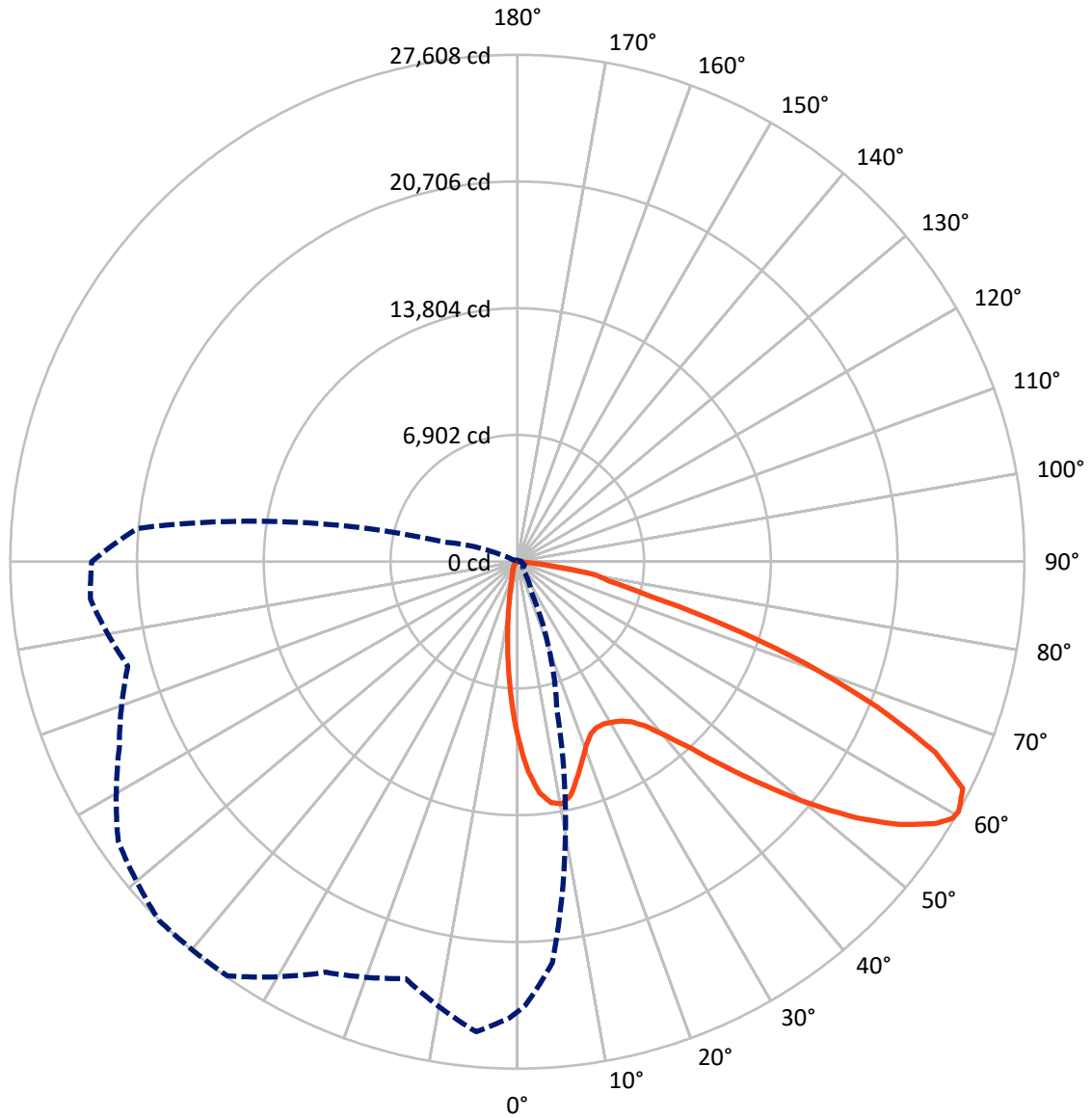
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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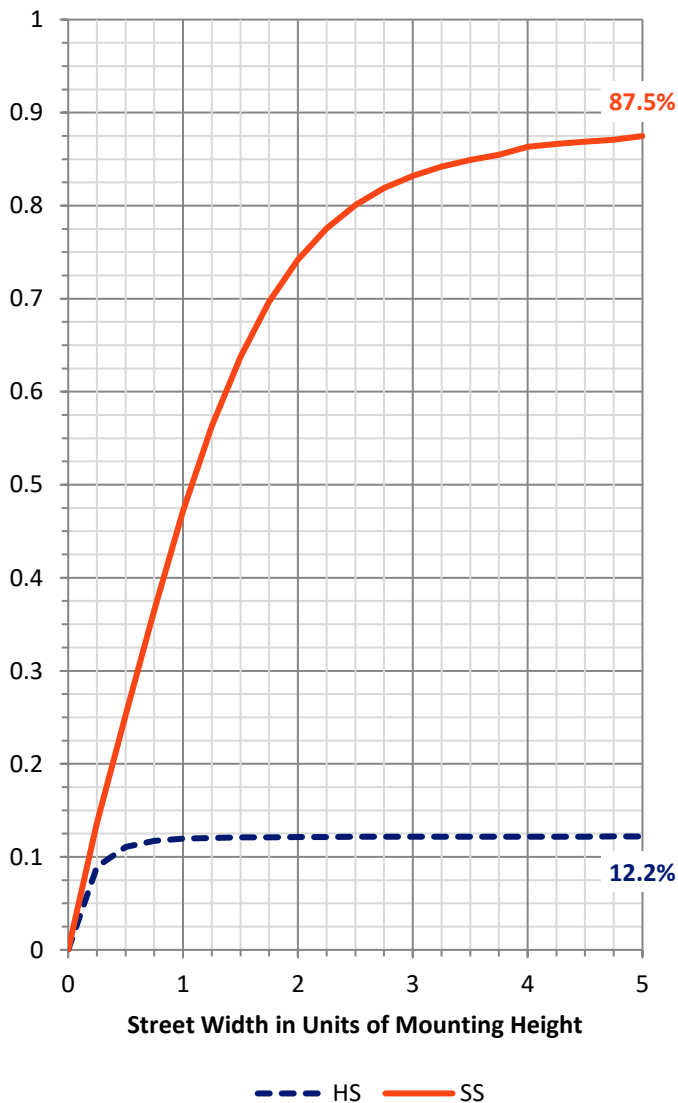
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3627.4	0.0	3627.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	25782.6	0.0	25782.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	29410.0	0.0	29410.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	723.0	2.5
10°-20°	1435.8	4.9
20°-30°	2105.3	7.2
30°-40°	3131.0	10.6
40°-50°	4556.5	15.5
50°-60°	6570.9	22.3
60°-70°	7227.3	24.6
70°-80°	3237.2	11.0
80°-90°	423.0	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°	29410.0	100.0
0°-180°	29410.0	100.0



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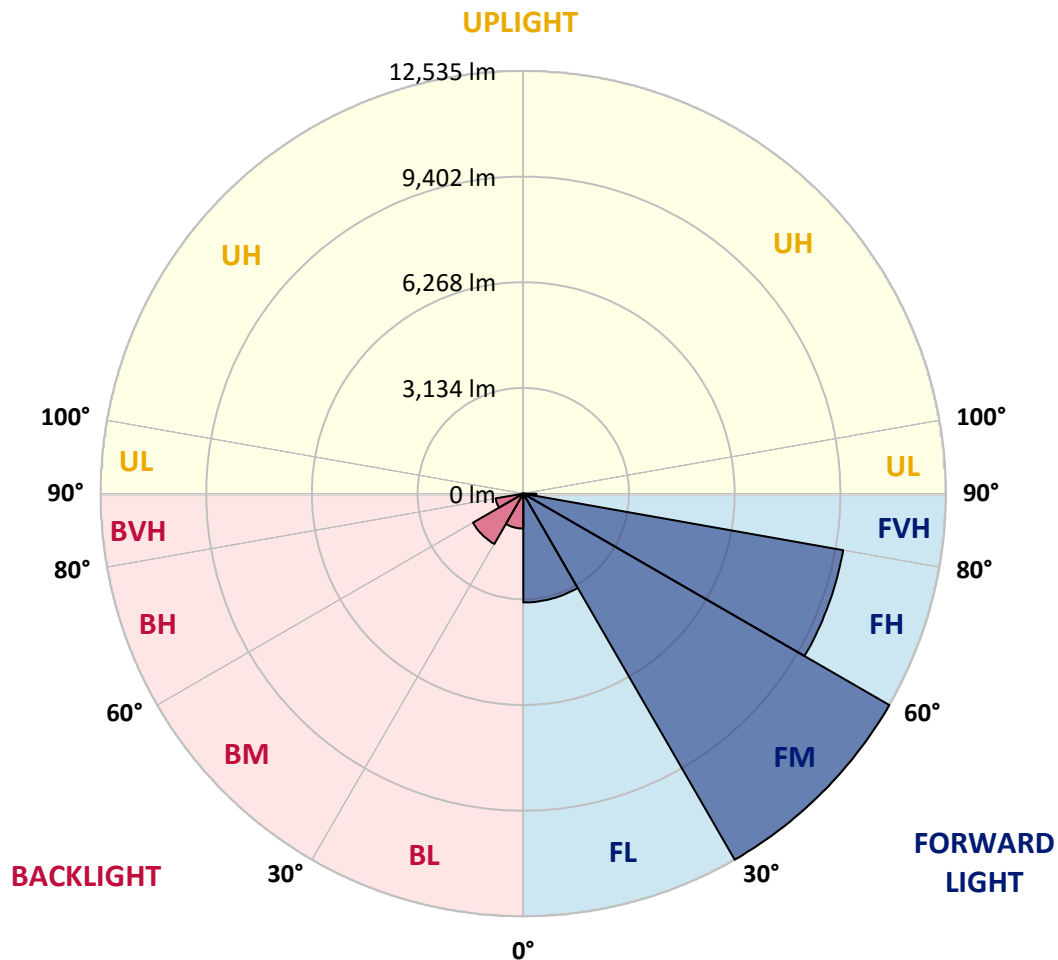
CATALOG NUMBER: GALN-SA7C-727-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3227.6	11.0			
FM	(30°-60°)	12535.4	42.6			
FH	(60°-80°)	9632.6	32.8			G4/12000
FVH	(80°-90°)	386.8	1.3			G3/500
BL	(0°-30°)	1036.5	3.5	B3/2500		
BM	(30°-60°)	1722.9	5.9	B2/2500		
BH	(60°-80°)	831.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	36.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	10686.2	10639.3	10532.0	10205.6	9921.6	9550.5	9174.9	8879.8	8698.8	8365.6	8213.6
5°	10353.1	10375.5	10064.7	9394.0	8647.3	8137.6	7580.9	7138.3	6650.9	6342.4	6018.3
7.5°	9483.5	9438.7	9101.2	8166.7	7259.0	6521.3	5817.1	5244.7	4884.8	4596.4	4355.0
10°	8739.0	8705.5	8274.0	7071.2	6096.5	5544.3	5068.1	4567.3	4180.6	3758.1	3420.5
12.5°	8271.8	8195.7	7699.4	6443.0	5649.4	5135.2	4616.5	4095.6	3561.3	3134.3	2725.2
15°	8115.3	8005.7	7453.5	6226.2	5363.2	4710.4	4059.9	3460.7	2845.9	2374.2	2065.7
17.5°	8399.2	8218.1	7630.1	6188.2	5021.2	4156.0	3355.6	2575.4	1936.0	1576.1	1386.1
20°	9049.7	8841.8	8077.3	6150.2	4641.1	3534.5	2550.8	1819.8	1339.1	1142.4	1037.3
22.5°	10015.5	9729.4	8739.0	6210.5	4290.1	2928.6	1842.1	1285.5	1064.1	941.2	867.4
25°	11175.8	10936.6	9577.3	6425.1	4012.9	2452.5	1424.1	1050.7	896.5	820.5	764.6
27.5°	12447.9	12065.6	10661.6	6682.2	3760.3	2083.6	1249.7	939.0	798.1	728.8	699.7
30°	13353.3	13056.0	11569.3	6861.1	3445.1	1806.4	1142.4	925.5	800.3	717.6	664.0
32.5°	14247.5	13867.5	12329.4	6943.8	3214.8	1614.1	988.1	807.1	702.0	659.5	605.8
35°	15204.4	14806.4	13087.3	6899.1	3042.7	1486.7	896.5	719.9	601.4	529.8	476.2
37.5°	16172.4	15752.1	13840.7	6738.1	2935.4	1435.3	824.9	684.1	567.8	494.1	435.9
40°	17321.5	16760.4	14547.1	6606.2	2823.6	1408.4	778.0	661.7	543.3	465.0	406.9
42.5°	18260.4	17726.1	15215.6	6536.9	2747.6	1345.8	778.0	643.9	527.6	440.4	380.1
45°	19150.2	18595.8	15937.7	6592.8	2716.3	1267.6	786.9	641.6	516.4	422.5	362.2
47.5°	19894.7	19414.0	16679.9	6803.0	2676.0	1182.6	740.0	672.9	509.7	406.9	344.3
50°	20773.3	20308.3	17661.3	7227.7	2604.5	1097.7	681.9	724.3	507.5	393.5	328.6
52.5°	22011.8	21508.8	19016.1	7710.6	2490.5	968.0	628.2	717.6	498.5	371.1	313.0
55°	23525.3	23118.4	20585.5	8289.6	2334.0	822.7	543.3	637.1	471.7	333.1	286.2
57.5°	24495.6	24149.0	21761.4	8540.0	2094.8	672.9	478.4	534.3	431.5	297.3	254.9
59°	24609.6	24296.6	22007.3	8457.3	1938.3	614.8	447.1	458.3	420.3	277.2	237.0
60°	24513.4	24189.3	21909.0	8296.3	1793.0	574.6	420.3	406.9	422.5	266.0	223.6
62.5°	23896.4	23342.0	20954.4	7480.3	1567.2	527.6	373.3	333.1	373.3	239.2	199.0
65°	22704.8	21873.2	19065.3	6331.2	1477.7	500.8	317.5	279.5	283.9	210.1	172.1
67.5°	20623.5	19575.0	16550.2	5144.1	1439.7	503.0	268.3	250.4	219.1	178.8	152.0
70°	17332.7	16286.4	13279.5	4232.0	1421.8	503.0	228.0	214.6	183.3	149.8	131.9
72.5°	12282.4	11155.7	8958.1	3324.3	1281.0	500.8	194.5	194.5	149.8	125.2	107.3
75°	6939.3	6948.3	5631.5	2351.9	1064.1	413.6	156.5	154.3	109.5	96.1	80.5
77.5°	4044.2	3972.7	3796.1	1010.5	494.1	187.8	109.5	93.9	76.0	69.3	58.1
80°	2079.1	1710.2	1665.5	366.6	176.6	118.5	76.0	53.7	49.2	44.7	40.2
82.5°	614.8	617.0	550.0	147.6	98.4	78.2	38.0	29.1	26.8	24.6	24.6
85°	42.5	26.8	31.3	44.7	60.4	31.3	2.2	6.7	6.7	8.9	11.2
87.5°	4.5	2.2	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°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	8046.0	8144.3	7961.0	7965.5	7813.5	7862.6	7683.8	7741.9	7636.8	7717.3	7954.3
5°	6054.0	6076.4	5928.8	5881.9	5904.2	5995.9	6031.7	5868.5	5937.8	5801.4	5792.5
7.5°	4265.5	4292.4	4207.4	4196.2	4357.2	4319.2	4388.5	4220.8	4062.1	4131.4	4004.0
10°	3313.2	3201.4	3027.0	2977.8	2946.5	2966.7	2966.7	2814.6	2792.3	2731.9	2823.6
12.5°	2615.7	2479.3	2313.9	2090.3	2034.4	2029.9	1947.2	1813.1	1770.6	1719.2	1795.2
15°	1900.3	1844.4	1705.8	1580.6	1453.1	1428.6	1294.4	1184.9	1039.6	1019.4	1012.7
17.5°	1336.9	1254.2	1251.9	1180.4	1106.6	1057.4	932.2	807.1	751.2	744.5	744.5
20°	1001.6	972.5	925.5	916.6	894.2	838.4	726.6	659.5	632.7	634.9	643.9
22.5°	842.8	822.7	780.2	760.1	751.2	702.0	619.3	574.6	561.1	561.1	563.4
25°	753.4	735.5	688.6	657.3	646.1	610.3	545.5	512.0	500.8	500.8	500.8
27.5°	686.3	664.0	614.8	588.0	567.8	527.6	487.4	453.8	442.7	442.7	444.9
30°	639.4	614.8	570.1	534.3	503.0	467.2	433.7	404.6	391.2	389.0	391.2
32.5°	576.8	554.4	509.7	487.4	451.6	409.1	382.3	355.5	342.0	344.3	342.0
35°	449.4	442.7	411.4	418.1	397.9	362.2	337.6	308.5	292.9	290.6	295.1
37.5°	409.1	382.3	346.5	348.8	342.0	328.6	288.4	257.1	245.9	245.9	248.2
40°	377.8	351.0	310.7	290.6	292.9	292.9	250.4	216.9	205.7	203.4	207.9
42.5°	351.0	324.2	279.5	245.9	237.0	248.2	212.4	178.8	167.7	163.2	167.7
45°	333.1	304.0	252.6	214.6	187.8	201.2	174.4	147.6	134.1	134.1	131.9
47.5°	315.2	288.4	232.5	185.6	156.5	149.8	143.1	118.5	105.1	102.8	105.1
50°	299.6	272.7	210.1	161.0	131.9	116.3	116.3	93.9	85.0	80.5	82.7
52.5°	283.9	254.9	190.0	143.1	114.0	93.9	82.7	76.0	69.3	67.1	69.3
55°	261.6	232.5	169.9	123.0	98.4	78.2	64.8	62.6	58.1	53.7	58.1
57.5°	234.7	207.9	149.8	105.1	78.2	60.4	53.7	51.4	46.9	44.7	44.7
59°	219.1	194.5	138.6	91.7	69.3	53.7	49.2	46.9	42.5	38.0	40.2
60°	210.1	190.0	131.9	85.0	62.6	49.2	44.7	42.5	38.0	35.8	38.0
62.5°	185.6	169.9	116.3	69.3	49.2	35.8	31.3	33.5	31.3	29.1	31.3
65°	163.2	149.8	98.4	53.7	38.0	24.6	22.4	29.1	26.8	24.6	26.8
67.5°	145.3	129.7	82.7	40.2	26.8	13.4	15.6	24.6	24.6	22.4	24.6
70°	125.2	111.8	67.1	29.1	13.4	6.7	11.2	17.9	22.4	20.1	22.4
72.5°	102.8	87.2	51.4	20.1	6.7	0.0	6.7	15.6	22.4	20.1	22.4
75°	80.5	64.8	38.0	11.2	0.0	0.0	2.2	13.4	22.4	20.1	22.4
77.5°	58.1	46.9	22.4	2.2	0.0	0.0	2.2	13.4	22.4	20.1	22.4
80°	38.0	33.5	8.9	0.0	0.0	0.0	2.2	13.4	22.4	22.4	24.6
82.5°	24.6	17.9	0.0	0.0	0.0	0.0	4.5	17.9	24.6	26.8	26.8
85°	11.2	0.0	0.0	0.0	0.0	0.0	8.9	22.4	29.1	29.1	29.1
87.5°	0.0	0.0	0.0	0.0	0.0	4.5	15.6	26.8	33.5	33.5	33.5
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°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	7994.5	8135.4	8334.3	8640.6	8888.8	9280.0	9579.6	9988.7	10402.3	10527.5	10722.0
5°	5884.1	6065.2	6516.8	6928.2	7187.5	8014.7	8537.8	9362.7	10102.7	10458.2	10844.9
7.5°	4086.7	4301.3	4645.6	5220.1	5765.6	6438.6	7283.6	8227.0	9311.3	9818.8	10364.3
10°	2868.3	3136.6	3621.7	4093.4	4779.7	5419.1	6253.0	7294.8	8490.8	9090.0	9774.1
12.5°	1810.8	2050.1	2691.7	3221.5	4077.7	4820.0	5589.0	6532.4	7918.5	8533.3	9250.9
15°	1035.1	1236.3	1535.9	2215.5	3165.6	4147.1	5106.1	6201.6	7625.7	8383.5	9159.3
17.5°	771.3	824.9	959.1	1343.6	2208.8	3355.6	4661.2	6101.0	7824.6	8714.4	9599.7
20°	648.3	684.1	746.7	898.7	1408.4	2584.4	4227.5	6118.9	8468.5	9586.3	10426.9
22.5°	581.3	603.6	655.0	753.4	961.3	1882.4	3720.1	6223.9	9248.7	10657.1	11627.4
25°	509.7	538.8	583.5	668.4	800.3	1305.6	3219.3	6458.7	10341.9	12016.4	12928.5
27.5°	453.8	480.7	525.4	603.6	702.0	997.1	2635.8	6659.9	11495.5	13384.6	14131.3
30°	397.9	424.8	469.5	532.1	621.5	807.1	2007.6	6778.4	12615.5	14410.7	14985.3
32.5°	351.0	373.3	415.8	471.7	545.5	684.1	1582.8	6655.4	13471.8	15343.0	15727.5
35°	304.0	330.9	366.6	418.1	482.9	583.5	1316.8	6230.6	14207.3	16302.1	16440.7
37.5°	254.9	286.2	324.2	371.1	422.5	536.5	1057.4	5761.2	14994.2	17498.1	17270.1
40°	214.6	243.7	279.5	330.9	377.8	491.8	813.8	5260.4	15843.8	18620.4	18175.5
42.5°	174.4	205.7	248.2	295.1	373.3	429.2	630.4	4741.7	16606.1	19597.3	18993.7
45°	138.6	165.4	210.1	270.5	371.1	368.9	487.4	4229.8	17180.7	20294.9	19604.1
47.5°	109.5	131.9	176.6	263.8	342.0	313.0	391.2	3912.3	17784.3	20923.1	20071.3
50°	87.2	109.5	152.0	275.0	299.6	268.3	328.6	3963.7	18367.8	21242.8	20263.6
52.5°	73.8	96.1	131.9	216.9	230.3	234.7	288.4	4200.7	19121.2	21584.8	20645.8
55°	64.8	85.0	111.8	152.0	178.8	210.1	263.8	4372.9	20129.4	22318.1	21488.7
57.5°	51.4	73.8	100.6	129.7	147.6	183.3	243.7	4386.3	21041.5	23259.3	22608.7
59°	46.9	67.1	93.9	123.0	131.9	165.4	230.3	4272.2	21075.1	23400.1	23122.9
60°	42.5	64.8	89.4	114.0	125.2	156.5	219.1	4140.3	20771.0	23176.6	23335.3
62.5°	35.8	55.9	78.2	91.7	107.3	129.7	190.0	3661.9	19297.8	22163.8	22941.8
65°	31.3	49.2	67.1	76.0	89.4	111.8	167.7	2930.9	17670.2	20791.2	21815.1
67.5°	29.1	44.7	58.1	64.8	78.2	102.8	149.8	2070.2	15562.1	19049.6	20122.7
70°	26.8	42.5	51.4	60.4	69.3	87.2	127.4	1207.2	11987.3	15995.8	17129.2
72.5°	26.8	40.2	44.7	51.4	60.4	78.2	118.5	652.8	8195.7	12202.0	13666.3
75°	26.8	38.0	40.2	44.7	53.7	71.5	105.1	342.0	5298.4	8477.4	10462.6
77.5°	26.8	35.8	40.2	42.5	51.4	62.6	91.7	214.6	3530.0	5937.8	7071.2
80°	29.1	35.8	38.0	42.5	49.2	58.1	76.0	143.1	2074.6	3572.5	4303.5
82.5°	31.3	35.8	40.2	44.7	51.4	55.9	67.1	89.4	956.8	2363.0	2673.8
85°	33.5	38.0	42.5	46.9	53.7	55.9	62.6	64.8	156.5	1066.4	1442.0
87.5°	35.8	40.2	44.7	49.2	58.1	58.1	58.1	58.1	53.7	114.0	290.6
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: P456236

CATALOG NUMBER: GALN-SA7C-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4	9720.4
2.5°	10967.9	11220.5	11397.1	11441.8	11314.4	11256.3	11095.3	10844.9	10692.9	10686.2
5°	11558.1	12150.5	12561.9	12631.2	12385.3	11969.4	11475.4	10838.2	10464.9	10353.1
7.5°	11457.5	12494.8	13156.6	13252.7	12839.1	12045.5	11088.6	10062.5	9655.6	9483.5
10°	11043.9	12309.3	13254.9	13406.9	12854.7	11736.9	10520.8	9376.1	8870.9	8739.0
12.5°	10690.7	11969.4	12810.0	13020.2	12602.1	11486.6	10181.0	8935.7	8394.7	8271.8
15°	10536.4	11567.0	12081.2	12188.5	12119.2	11330.1	10145.2	8868.7	8249.4	8115.3
17.5°	10690.7	11225.0	11289.8	11399.4	11553.6	11314.4	10489.5	9233.1	8564.6	8399.2
20°	11095.3	10927.7	10659.4	10706.3	11059.6	11379.2	11102.0	10040.1	9226.4	9049.7
22.5°	11783.9	10853.9	10245.8	10205.6	10652.7	11596.1	12000.7	11133.3	10189.9	10015.5
25°	12629.0	11039.4	10093.8	10006.6	10493.9	11913.6	12977.7	12472.5	11441.8	11175.8
27.5°	13550.0	11424.0	10093.8	10008.8	10480.5	12195.2	13813.8	13657.3	12738.5	12447.9
30°	14055.3	11741.4	10239.1	10143.0	10646.0	12358.4	14260.9	14710.3	13713.2	13353.3
32.5°	14506.9	12181.8	10523.0	10341.9	10992.5	12599.9	14661.1	15604.5	14489.0	14247.5
35°	14922.7	12653.5	10914.2	10704.1	11448.6	12930.8	15103.8	16543.5	15568.8	15204.4
37.5°	15381.0	13201.3	11524.6	11345.7	12210.9	13574.6	15629.1	17777.6	16630.7	16172.4
40°	15879.5	13836.2	12528.3	12452.3	13422.6	14303.4	16293.1	19094.3	17842.4	17321.5
42.5°	16387.0	14567.2	13757.9	13883.1	14795.3	15325.1	16975.0	20107.1	18835.0	18260.4
45°	16847.5	15501.7	15356.4	15975.7	16396.0	16322.2	17480.2	20820.2	19700.2	19150.2
47.5°	17428.8	16863.2	17290.2	18244.8	18256.0	17406.4	17862.5	21403.7	20444.6	19894.7
50°	18079.4	18470.6	19787.4	20759.9	20498.3	18472.8	18309.6	22094.5	21213.7	20773.3
52.5°	18832.8	20270.3	22094.5	23174.3	22564.0	19635.3	19054.1	22841.2	22434.3	22011.8
55°	19709.1	21497.6	24395.0	25255.7	24640.9	21079.6	20185.3	23853.9	23813.7	23525.3
57.5°	20699.5	22794.3	25727.4	26892.1	26344.4	22774.1	21765.9	24808.5	24656.5	24495.6
59°	21482.0	23460.5	26315.3	27522.6	27191.7	23961.3	22827.8	25403.2	24851.0	24609.6
60°	21955.9	23912.1	26532.2	27607.5	27531.5	24667.7	23500.7	25693.8	24848.8	24513.4
62.5°	23362.1	24701.2	26449.5	27229.7	27527.0	26022.5	25474.8	26013.5	24388.3	23896.4
65°	23862.9	24439.7	25079.1	24982.9	25237.8	25953.2	26735.6	25662.5	23404.6	22704.8
67.5°	22888.2	21571.4	21797.2	21155.6	21030.4	23073.7	26223.7	23945.6	21479.7	20623.5
70°	19293.3	16525.6	16411.6	16706.7	15897.4	18680.7	23547.7	20639.1	18302.9	17332.7
72.5°	15186.5	11678.8	10717.5	11804.0	11779.4	14252.0	19561.6	14645.5	12365.2	12282.4
75°	11942.6	8130.9	7136.1	7312.7	7652.5	10317.3	15580.0	9300.1	7614.5	6939.3
77.5°	8016.9	5761.2	5374.4	5157.5	5524.2	6624.1	9856.8	5043.5	4270.0	4044.2
80°	4621.0	4185.1	4752.9	4314.7	4511.5	4173.9	4902.7	2313.9	1920.4	2079.1
82.5°	3006.9	2383.2	2539.7	1886.9	2579.9	2602.2	1573.9	684.1	579.0	614.8
85°	1880.1	1117.8	628.2	447.1	889.8	1636.5	491.8	42.5	49.2	42.5
87.5°	487.4	185.6	78.2	116.3	143.1	127.4	114.0	6.7	2.2	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)