

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: P455770

Luminaire Tested: **GALN-SA7A-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19131 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

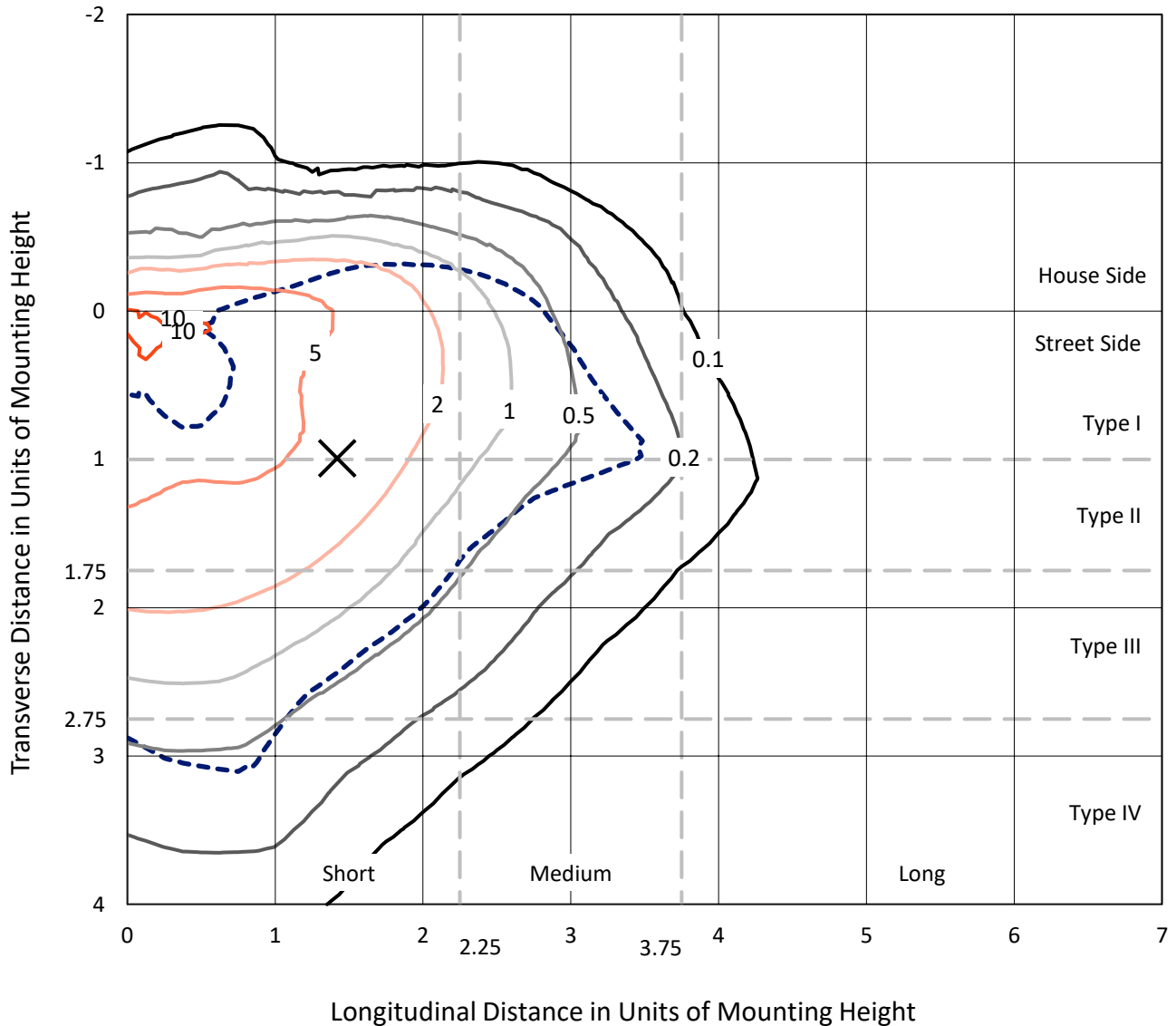
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

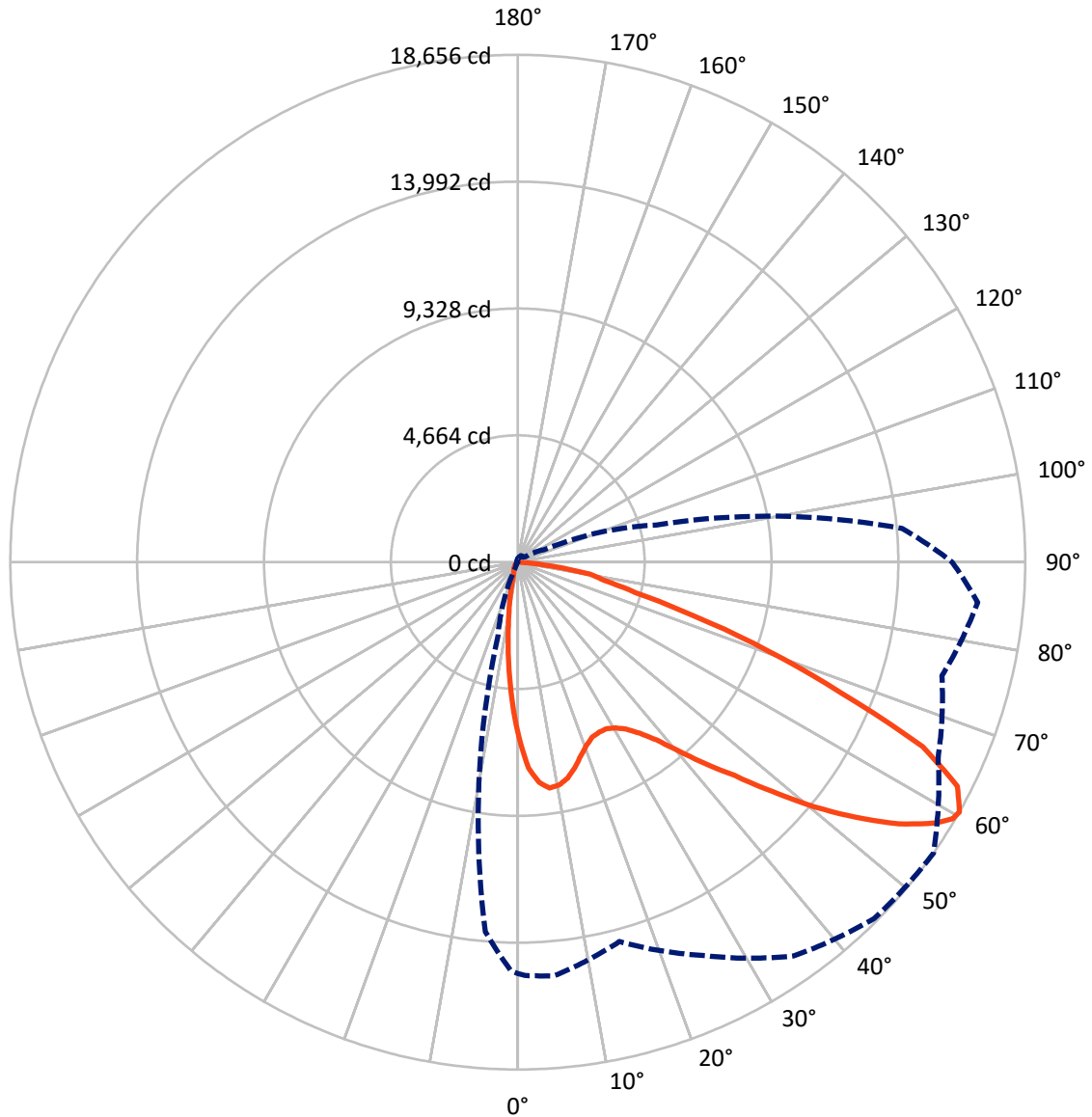
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2839.2	0.0	2839.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	16291.8	0.0	16291.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	19131.0	0.0	19131.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.7	2.5
10°-20°	944.6	4.9
20°-30°	1398.2	7.3
30°-40°	2084.2	10.9
40°-50°	3052.3	16.0
50°-60°	4406.5	23.0
60°-70°	4635.4	24.2
70°-80°	1906.9	10.0
80°-90°	223.3	1.2
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°	19131.0	100.0
0°-180°	19131.0	100.0

**Coefficient of Utilization**



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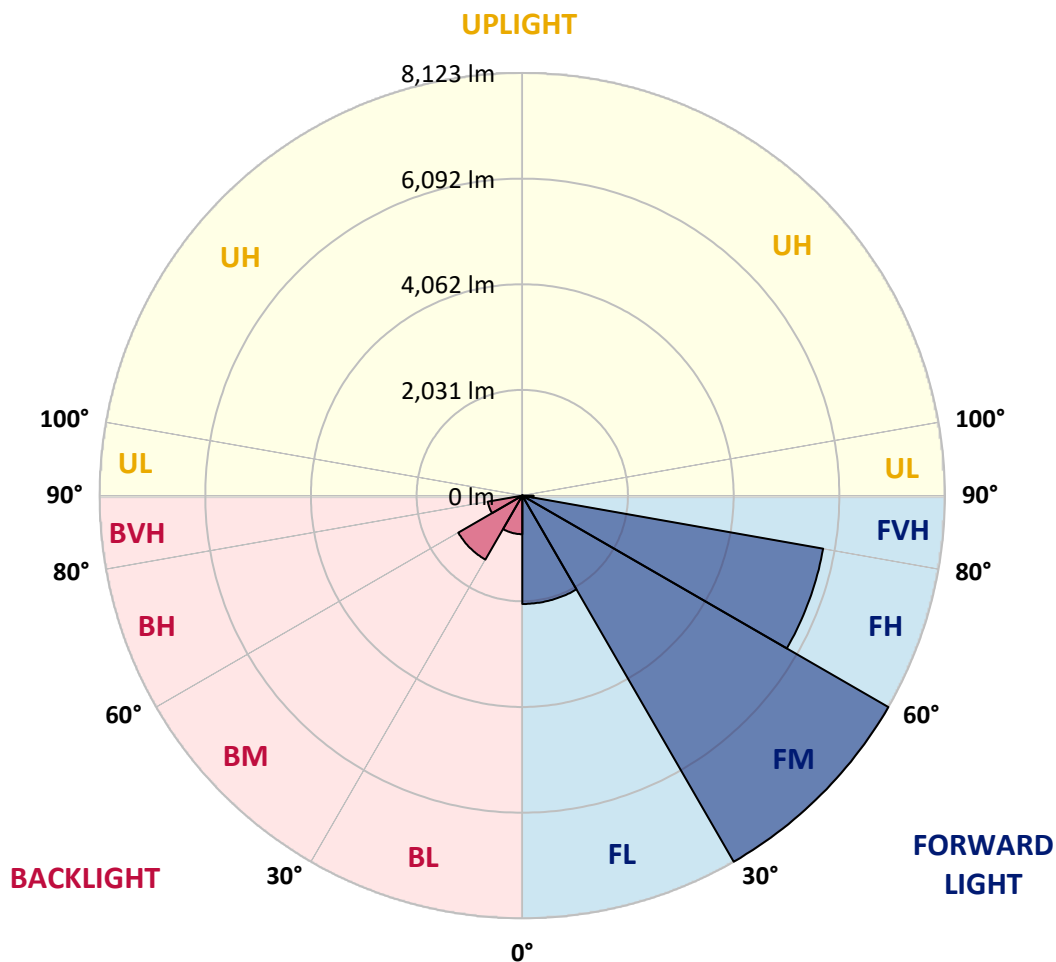
CATALOG NUMBER: GALN-SA7A-727-U-SLL-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2081.7	10.9			
FM	(30°-60°)	8123.1	42.5			
FH	(60°-80°)	5870.3	30.7			G3/7500
FVH	(80°-90°)	216.8	1.1			G2/225
BL	(0°-30°)	740.8	3.9	B2/1000		
BM	(30°-60°)	1419.9	7.4	B2/2500		
BH	(60°-80°)	672.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7
2.5°	7077.0	7065.2	7169.8	7340.6	7512.9	7602.7	7585.1	7577.7	7434.9	7330.3	7110.9
5°	7062.3	7122.7	7309.7	7772.1	8122.5	8291.9	8341.9	8131.4	7853.1	7449.6	6951.9
7.5°	6639.7	6714.8	7019.6	7742.6	8365.5	8733.6	8720.4	8383.2	7808.9	7184.5	6474.8
10°	6115.5	6203.8	6561.6	7439.3	8247.7	8733.6	8760.1	8333.1	7618.9	6817.9	6071.3
12.5°	5745.9	5850.4	6246.5	7156.5	7944.4	8422.9	8453.9	8144.6	7476.1	6676.5	5851.9
15°	5620.7	5719.3	6121.3	7013.7	7621.9	7879.6	7872.2	7839.8	7420.1	6710.4	5863.7
17.5°	5835.7	5916.7	6370.2	7078.5	7320.0	7293.5	7331.8	7487.9	7431.9	6994.6	6234.7
20°	6390.8	6473.3	6960.7	7277.3	7088.8	6920.9	6938.6	7199.2	7540.9	7529.1	6814.9
22.5°	7155.1	7295.0	7736.7	7663.1	7057.9	6689.7	6652.9	6991.6	7726.4	8144.6	7598.3
25°	8122.5	8263.9	8608.5	8278.6	7209.6	6635.3	6601.4	6928.3	7951.7	8745.4	8480.4
27.5°	8935.4	9042.9	9386.0	8877.9	7433.4	6658.8	6602.9	6937.1	8134.3	9256.4	9224.0
30°	9586.2	9665.8	9867.5	9157.7	7626.3	6761.9	6697.1	7066.7	8215.3	9505.2	9826.3
32.5°	10110.5	10244.5	10307.8	9456.7	7903.1	6956.3	6845.8	7315.6	8412.6	9813.0	10458.0
35°	10709.8	10864.4	10783.4	9742.3	8268.3	7259.6	7124.1	7719.1	8711.5	10097.2	11191.3
37.5°	11469.6	11647.8	11331.2	10042.7	8654.1	7716.1	7652.8	8286.0	9165.1	10503.6	11977.6
40°	12256.0	12359.0	11862.8	10407.9	9128.3	8380.2	8440.6	9128.3	9758.5	10991.0	12814.0
42.5°	12870.0	12967.2	12409.1	10714.2	9612.7	9168.0	9419.8	10144.3	10438.8	11490.2	13438.4
45°	13339.7	13422.2	12787.5	11048.5	10266.5	10309.3	10784.9	11191.3	11120.6	11795.0	13919.9
47.5°	13704.9	13775.6	13079.1	11407.8	11245.8	11705.2	12432.7	12604.9	11827.4	12124.9	14355.8
50°	13855.1	13875.7	13170.4	11865.7	12357.6	13484.0	14242.4	14137.9	12637.3	12491.6	14819.6
52.5°	14051.0	14046.6	13431.0	12301.6	13403.1	15074.4	15831.3	15594.2	13553.3	13040.8	15340.9
55°	14564.9	14570.8	13989.1	12920.1	14293.9	16358.4	17168.3	16996.1	14519.2	13968.5	15949.1
57.5°	15189.3	15211.3	14782.8	13643.1	15145.1	17289.1	18166.7	18100.5	15825.4	15000.8	16523.4
59°	15270.2	15314.4	15158.3	14152.6	15650.2	17574.8	18508.4	18573.1	16524.8	15681.1	16834.1
60°	15123.0	15196.6	15267.3	14441.2	15946.1	17677.8	18529.0	18655.6	17050.5	16143.5	16975.4
62.5°	14481.0	14597.3	14952.2	15329.1	16315.7	17356.8	17870.7	18135.8	17701.4	17358.3	16988.7
65°	13640.1	13700.5	14213.0	15486.7	15598.6	15857.8	16016.8	16357.0	16919.5	17826.6	16380.5
67.5°	12261.8	12440.0	13067.3	14572.3	13482.6	13176.3	13136.5	12797.8	14258.6	16710.4	14881.5
70°	10129.6	10209.1	10982.2	11946.7	10175.3	9704.0	9892.5	9765.9	11052.9	14385.2	11977.6
72.5°	7660.2	7839.8	8595.2	9522.9	6923.9	6312.8	6832.6	6785.5	8302.2	11560.9	8228.6
75°	5449.9	5566.2	6529.2	7452.5	4849.1	4108.4	4295.4	4470.6	5795.9	9128.3	4862.3
77.5°	3744.7	3844.8	4567.8	4928.6	3537.0	3388.3	3099.7	3269.0	3797.7	5416.0	2646.2
80°	2258.9	2254.5	2730.1	2818.4	2463.6	2861.1	2400.2	2694.7	2295.7	2317.8	1024.9
82.5°	1466.6	1451.9	1669.9	1820.1	1370.9	1441.6	967.5	1394.5	1496.1	646.4	324.0
85°	656.8	684.7	802.5	1058.8	600.8	319.5	197.3	428.5	637.6	325.4	0.0
87.5°	67.7	53.0	141.4	257.7	82.5	8.8	29.5	14.7	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°	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7
2.5°	7009.3	6923.9	6669.1	6430.6	6225.9	5975.6	5813.6	5558.8	5404.2	5357.1	5364.5
5°	6728.0	6482.1	5997.7	5610.4	5178.9	4933.0	4559.0	4199.7	4005.3	3933.2	3900.8
7.5°	6139.0	5875.4	5290.8	4682.7	4220.3	3788.8	3510.5	3193.9	2977.5	2799.3	2768.4
10°	5701.7	5355.6	4631.1	3977.3	3612.1	3288.2	3009.9	2693.3	2438.5	2235.3	2179.4
12.5°	5439.6	5052.3	4243.9	3696.1	3350.0	3017.2	2655.0	2288.3	2027.7	1808.3	1706.7
15°	5392.4	4943.3	4134.9	3494.3	3067.3	2665.3	2183.8	1787.7	1519.7	1312.0	1248.7
17.5°	5676.6	5139.2	4118.7	3283.8	2697.7	2127.8	1627.2	1298.8	996.9	880.6	834.9
20°	6183.2	5485.2	4117.2	3039.3	2317.8	1638.9	1142.7	846.7	724.5	668.5	642.0
22.5°	6873.8	5956.4	4195.3	2828.7	1923.1	1209.0	815.8	674.4	603.7	558.1	547.8
25°	7717.6	6654.4	4386.7	2685.9	1621.3	948.3	673.0	577.2	518.3	497.7	488.9
27.5°	8467.1	7322.9	4597.3	2538.7	1404.8	839.3	624.4	528.6	481.5	465.3	452.1
30°	9113.6	7929.6	4698.9	2344.3	1231.0	768.7	633.2	565.5	503.6	455.0	432.9
32.5°	9652.5	8395.0	4765.1	2167.6	1083.8	628.8	500.7	437.3	409.4	391.7	377.0
35°	10326.9	8898.6	4725.4	2067.4	1008.7	572.8	456.5	377.0	329.8	294.5	279.8
37.5°	11033.7	9402.2	4656.2	1985.0	974.8	531.6	434.4	357.8	306.3	269.5	250.3
40°	11765.6	9869.0	4575.2	1908.4	943.9	505.1	421.1	341.6	290.1	250.3	229.7
42.5°	12435.6	10324.0	4542.8	1858.3	893.8	509.5	410.8	334.3	273.9	232.7	215.0
45°	12977.5	10755.4	4587.0	1831.8	839.3	502.1	413.8	325.4	260.6	220.9	203.2
47.5°	13556.2	11365.1	4729.8	1805.3	786.3	466.8	435.9	324.0	254.7	213.5	194.4
50°	14229.2	12145.5	5056.7	1740.5	721.5	428.5	463.9	322.5	247.4	204.7	185.5
52.5°	15125.9	13032.0	5393.9	1627.2	627.3	391.7	443.2	318.1	232.7	194.4	175.2
55°	15931.4	13965.6	5679.6	1493.2	508.0	338.7	399.1	298.9	207.6	176.7	159.0
57.5°	16264.2	14492.7	5670.8	1307.6	406.4	297.5	328.4	273.9	181.1	156.1	141.4
59°	16142.0	14426.5	5480.8	1170.7	371.1	275.4	272.4	270.9	169.3	141.4	129.6
60°	15969.7	14185.0	5276.1	1102.9	349.0	260.6	250.3	268.0	159.0	132.5	120.7
62.5°	15310.0	13183.7	4597.3	988.1	319.5	220.9	200.3	226.8	141.4	114.9	104.6
65°	14354.3	11644.8	3891.9	955.7	310.7	182.6	166.4	162.0	120.7	97.2	88.4
67.5°	12490.1	9854.2	3152.7	933.6	313.7	153.1	145.8	122.2	100.1	81.0	75.1
70°	10000.0	7683.7	2581.4	908.6	316.6	125.2	122.2	97.2	81.0	67.7	61.8
72.5°	6075.7	4554.6	2032.1	789.3	307.8	100.1	109.0	73.6	58.9	48.6	45.6
75°	3756.4	3117.4	1260.5	614.0	203.2	73.6	76.6	45.6	39.8	30.9	30.9
77.5°	2176.4	1968.8	450.6	220.9	89.8	44.2	33.9	23.6	22.1	13.3	13.3
80°	902.7	723.0	156.1	75.1	48.6	20.6	7.4	1.5	0.0	0.0	0.0
82.5°	263.6	234.1	42.7	33.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7
2.5°	5239.3	5190.7	5168.6	5243.7	5174.5	5262.9	5195.1	5224.6	5311.5	5349.7	5448.4
5°	3921.4	3871.3	3847.7	3961.1	3955.2	4011.2	4005.3	4056.8	4101.0	4002.4	4104.0
7.5°	2731.6	2697.7	2753.6	2842.0	2936.2	2905.3	2905.3	2836.1	2859.7	2844.9	2840.5
10°	2077.8	1961.4	1932.0	1929.0	1964.4	1971.7	1932.0	1836.3	1871.6	1881.9	1943.8
12.5°	1634.5	1544.7	1407.7	1345.9	1329.7	1343.0	1211.9	1128.0	1167.7	1144.2	1204.5
15°	1172.1	1098.5	1017.5	948.3	929.2	902.7	759.8	659.7	647.9	652.3	662.6
17.5°	836.4	786.3	786.3	712.7	673.0	593.4	521.3	477.1	472.7	477.1	484.5
20°	617.0	590.5	587.5	568.4	524.2	471.2	421.1	412.3	409.4	416.7	419.7
22.5°	531.6	503.6	480.0	478.6	437.3	393.2	369.6	357.8	359.3	362.2	369.6
25°	475.6	446.2	421.1	406.4	377.0	346.0	324.0	318.1	318.1	322.5	324.0
27.5°	435.9	399.1	377.0	356.4	329.8	303.3	284.2	279.8	276.8	279.8	287.1
30°	407.9	371.1	343.1	312.2	291.6	266.5	250.3	244.4	243.0	244.4	250.3
32.5°	349.0	326.9	304.8	276.8	251.8	235.6	217.9	207.6	207.6	210.6	216.5
35°	263.6	251.8	250.3	243.0	222.4	204.7	184.1	173.8	173.8	179.6	182.6
37.5°	232.7	210.6	207.6	204.7	195.8	172.3	153.1	144.3	142.8	147.3	153.1
40°	212.0	187.0	173.8	170.8	172.3	145.8	125.2	116.3	116.3	117.8	123.7
42.5°	195.8	166.4	142.8	139.9	145.8	122.2	101.6	92.8	92.8	92.8	100.1
45°	182.6	148.7	120.7	106.0	114.9	100.1	82.5	73.6	70.7	73.6	76.6
47.5°	173.8	135.5	106.0	85.4	85.4	79.5	66.3	56.0	53.0	54.5	58.9
50°	166.4	123.7	89.8	69.2	61.8	63.3	50.1	42.7	39.8	39.8	44.2
52.5°	154.6	111.9	78.0	58.9	47.1	42.7	36.8	30.9	29.5	30.9	33.9
55°	139.9	101.6	67.7	48.6	36.8	29.5	26.5	22.1	20.6	22.1	26.5
57.5°	123.7	85.4	54.5	38.3	25.0	19.1	17.7	14.7	11.8	13.3	16.2
59°	113.4	76.6	47.1	30.9	19.1	13.3	13.3	10.3	7.4	8.8	13.3
60°	109.0	70.7	39.8	26.5	16.2	10.3	10.3	7.4	4.4	5.9	10.3
62.5°	92.8	58.9	30.9	16.2	7.4	1.5	4.4	1.5	0.0	1.5	4.4
65°	78.0	47.1	20.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	64.8	35.3	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	51.5	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	35.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P455770

CATALOG NUMBER: GALN-SA7A-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7	6477.7
2.5°	5454.3	5664.9	5794.4	6038.9	6289.2	6482.1	6723.6	6940.1	7029.9	7077.0
5°	4207.0	4500.1	4748.9	5121.5	5467.5	5888.7	6315.7	6819.3	7012.2	7062.3
7.5°	2952.4	3251.4	3512.0	3943.5	4436.8	5000.7	5639.8	6278.9	6560.2	6639.7
10°	2132.2	2451.8	2769.8	3201.3	3662.2	4273.3	4938.9	5729.7	6053.6	6115.5
12.5°	1345.9	1689.0	2205.9	2738.9	3226.3	3718.2	4414.7	5274.6	5632.5	5745.9
15°	780.4	1036.7	1426.9	2121.9	2741.9	3392.7	4152.6	5103.8	5504.4	5620.7
17.5°	522.8	611.1	879.1	1410.7	2229.4	3092.3	4086.3	5243.7	5686.9	5835.7
20°	440.3	480.0	574.3	860.0	1717.0	2824.3	4104.0	5623.6	6205.3	6390.8
22.5°	387.3	424.1	484.5	618.5	1198.6	2491.5	4187.9	6167.0	6918.0	7155.1
25°	341.6	378.4	431.5	512.4	805.5	2107.2	4372.0	6962.2	7861.9	8122.5
27.5°	303.3	337.2	382.9	452.1	619.9	1678.7	4535.4	7736.7	8723.3	8935.4
30°	268.0	296.0	340.2	393.2	515.4	1294.4	4617.9	8414.1	9350.6	9586.2
32.5°	232.7	259.2	301.9	344.6	424.1	986.6	4560.5	8911.8	9960.3	10110.5
35°	198.8	226.8	262.1	301.9	366.7	796.6	4273.3	9471.4	10592.0	10709.8
37.5°	170.8	194.4	231.2	262.1	331.3	637.6	3925.8	9975.0	11300.3	11469.6
40°	144.3	167.9	204.7	232.7	304.8	502.1	3612.1	10534.6	12046.9	12256.0
42.5°	117.8	145.8	178.2	223.8	262.1	382.9	3232.2	10988.1	12607.9	12870.0
45°	94.2	125.2	160.5	222.4	228.2	291.6	2865.6	11341.5	13104.1	13339.7
47.5°	75.1	106.0	154.6	207.6	187.0	231.2	2656.5	11711.1	13516.4	13704.9
50°	60.4	88.4	162.0	182.6	156.1	195.8	2650.6	12123.4	13730.0	13855.1
52.5°	48.6	72.2	136.9	139.9	132.5	172.3	2809.6	12587.3	13947.9	14051.0
55°	41.2	60.4	89.8	103.1	119.3	156.1	2928.9	13301.5	14467.7	14564.9
57.5°	32.4	51.5	69.2	82.5	106.0	142.8	2945.1	13852.2	15125.9	15189.3
59°	28.0	44.2	61.8	73.6	97.2	134.0	2878.8	13886.1	15168.6	15270.2
60°	23.6	39.8	54.5	69.2	89.8	126.6	2806.7	13640.1	15009.6	15123.0
62.5°	17.7	30.9	39.8	56.0	73.6	109.0	2465.0	12781.6	14401.4	14481.0
65°	11.8	22.1	29.5	41.2	57.4	94.2	2008.5	11668.4	13462.0	13640.1
67.5°	7.4	16.2	23.6	30.9	47.1	79.5	1431.3	10005.9	12147.0	12261.8
70°	4.4	10.3	17.7	25.0	36.8	63.3	849.7	7909.0	10106.0	10129.6
72.5°	2.9	7.4	11.8	17.7	29.5	57.4	412.3	5155.4	7378.9	7660.2
75°	1.5	4.4	7.4	13.3	23.6	47.1	197.3	3444.3	5368.9	5449.9
77.5°	0.0	1.5	4.4	8.8	17.7	36.8	114.9	2261.8	3660.7	3744.7
80°	0.0	0.0	2.9	7.4	13.3	23.6	69.2	1334.1	2217.6	2258.9
82.5°	0.0	0.0	1.5	5.9	8.8	17.7	35.3	586.1	1451.9	1466.6
85°	0.0	0.0	1.5	5.9	7.4	11.8	13.3	79.5	645.0	656.8
87.5°	0.0	0.0	1.5	7.4	7.4	7.4	7.4	4.4	54.5	67.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)