

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: P455308

Luminaire Tested: **GALN-SA6C-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455308
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-SA6C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 25039 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

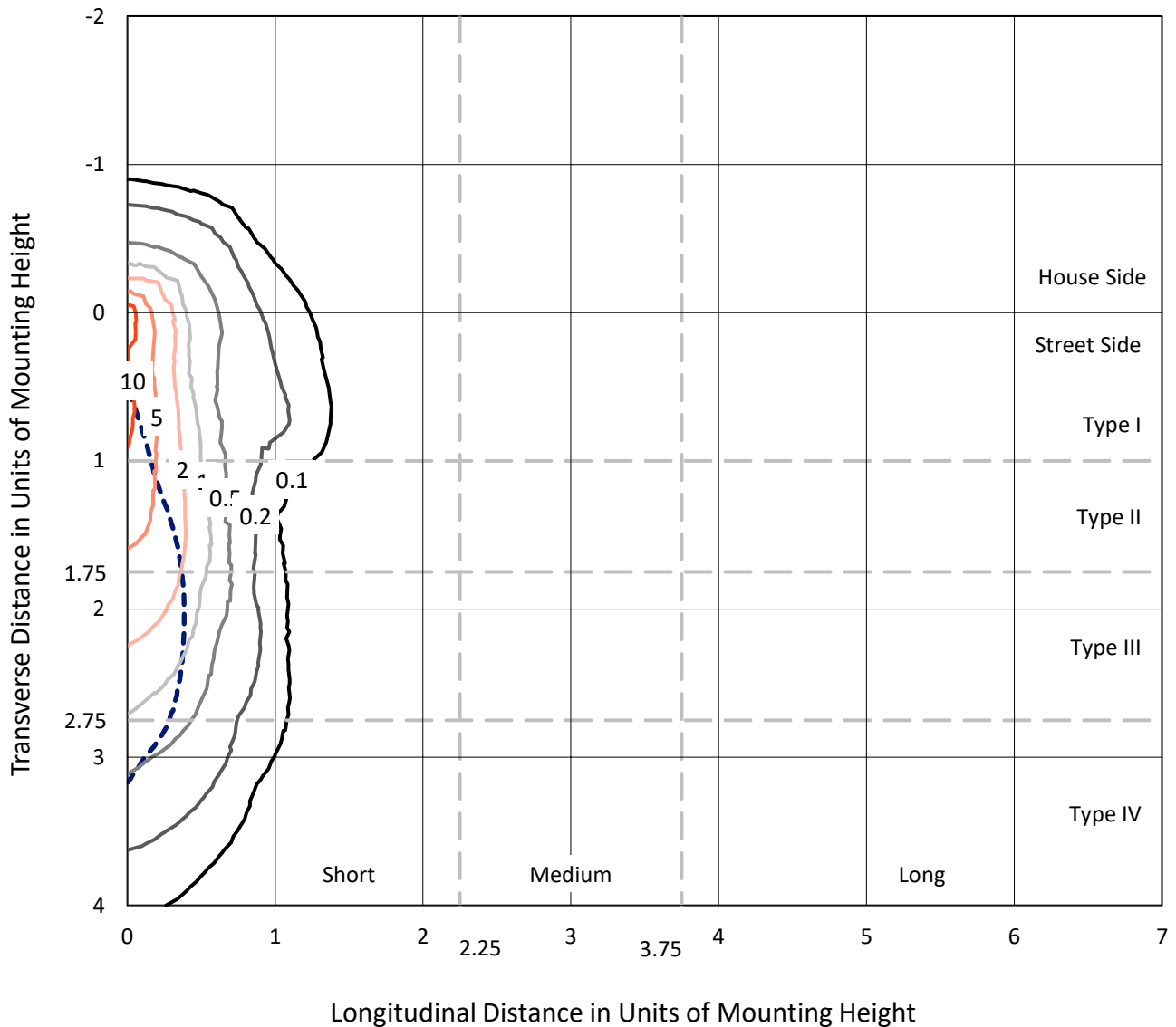
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

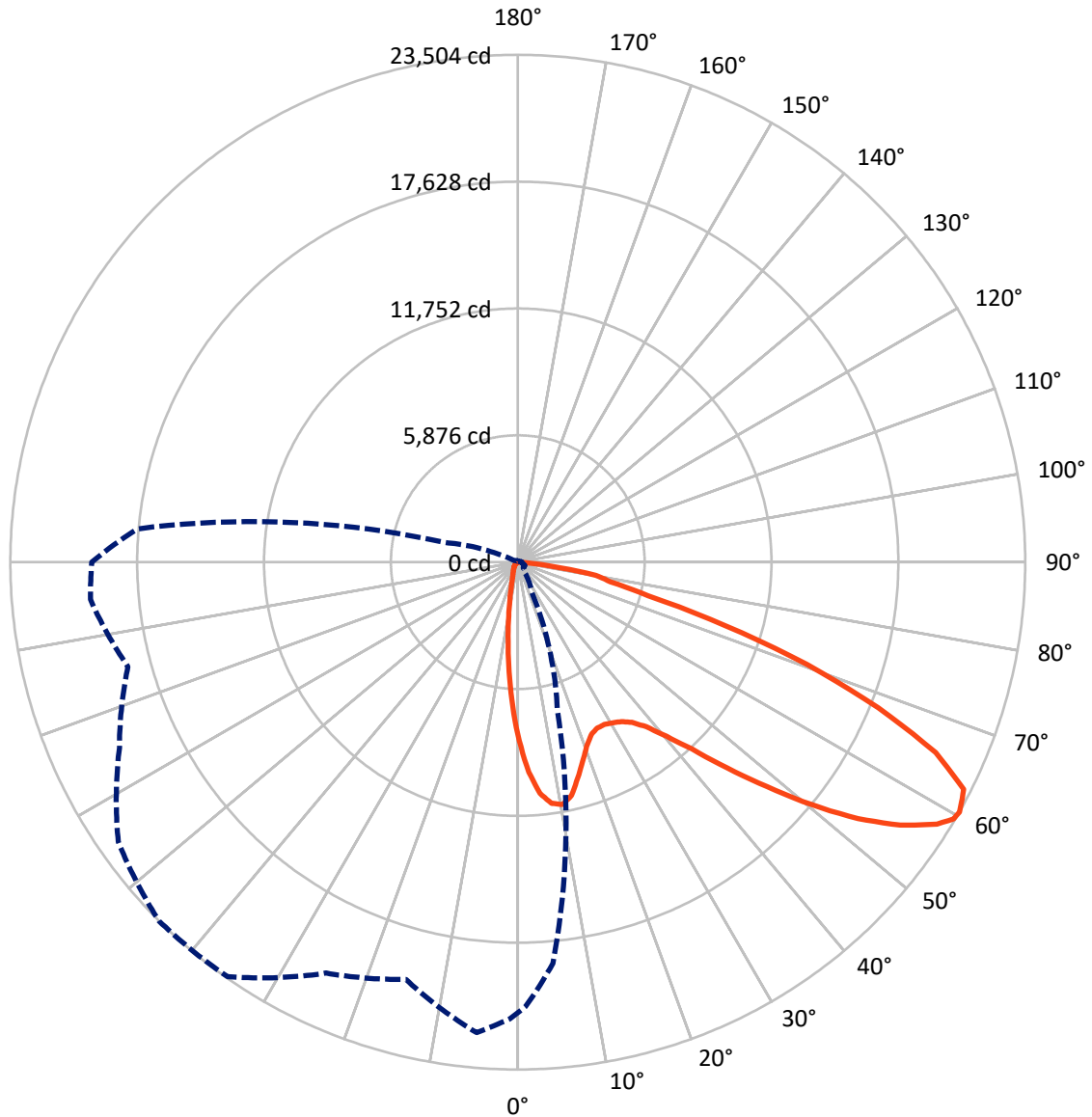
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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
House Side	Lumens	3088.3	0.0	3088.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	21950.7	0.0	21950.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	25039.0	0.0	25039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.5	2.5
10°-20°	1222.4	4.9
20°-30°	1792.4	7.2
30°-40°	2665.6	10.6
40°-50°	3879.3	15.5
50°-60°	5594.3	22.3
60°-70°	6153.1	24.6
70°-80°	2756.1	11.0
80°-90°	360.1	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°	25039.0	100.0
0°-180°	25039.0	100.0

Coefficient of Utilization



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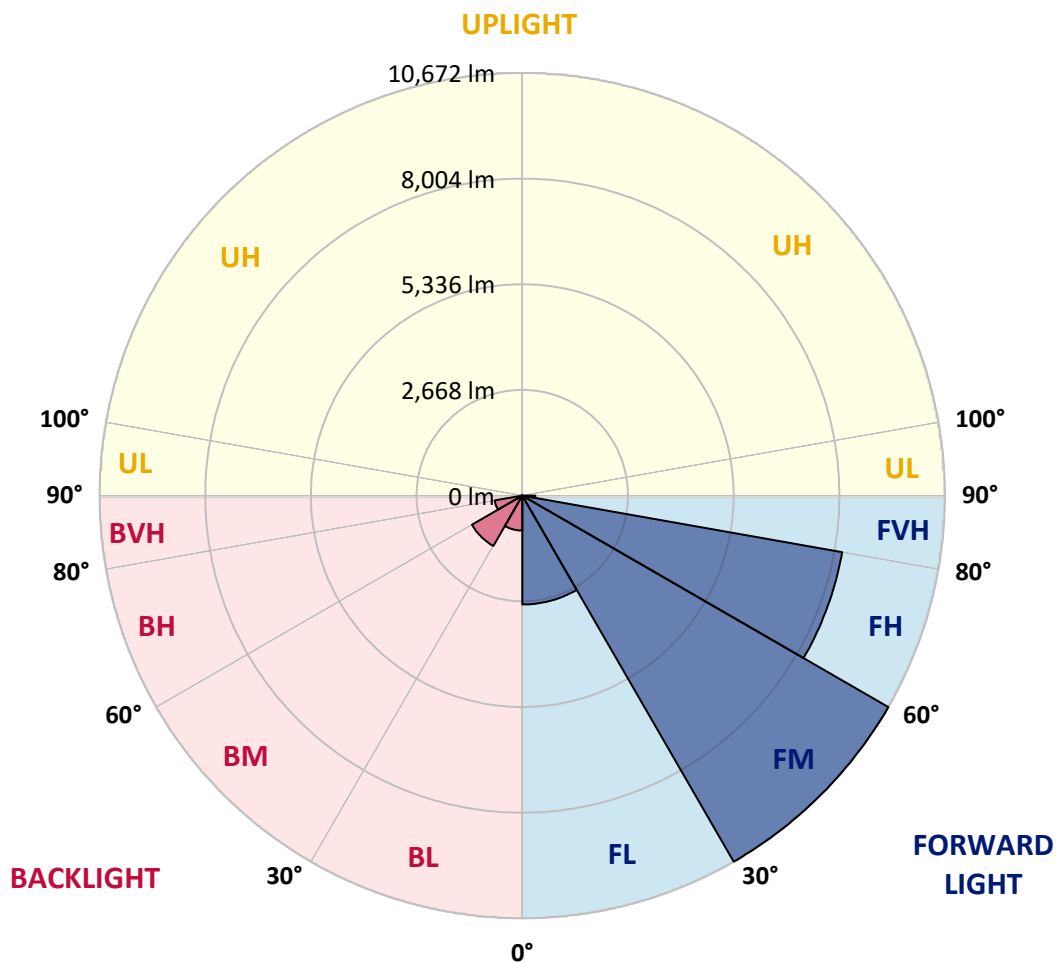
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2747.9	11.0			
FM	(30°-60°)	10672.4	42.6			
FH	(60°-80°)	8201.0	32.8			G4/12000
FVH	(80°-90°)	329.3	1.3			G3/500
BL	(0°-30°)	882.4	3.5	B2/1000		
BM	(30°-60°)	1466.9	5.9	B2/2500		
BH	(60°-80°)	708.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	30.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7
2.5°	9098.0	9058.0	8966.7	8688.8	8447.0	8131.1	7811.3	7560.1	7405.9	7122.3	6992.9
5°	8814.4	8833.4	8568.9	7997.9	7362.1	6928.2	6454.2	6077.4	5662.5	5399.8	5123.8
7.5°	8074.0	8035.9	7748.5	6952.9	6180.2	5552.1	4952.5	4465.2	4158.8	3913.3	3707.7
10°	7440.2	7411.6	7044.3	6020.3	5190.4	4720.3	4314.9	3888.5	3559.3	3199.5	2912.1
12.5°	7042.4	6977.7	6555.1	5485.4	4809.8	4372.0	3930.4	3486.9	3032.0	2668.5	2320.2
15°	6909.1	6815.9	6345.8	5300.8	4566.1	4010.3	3456.5	2946.4	2423.0	2021.4	1758.7
17.5°	7150.9	6996.7	6496.1	5268.5	4274.9	3538.3	2856.9	2192.7	1648.3	1341.9	1180.1
20°	7704.7	7527.7	6876.8	5236.1	3951.3	3009.2	2171.7	1549.3	1140.1	972.6	883.2
22.5°	8527.0	8283.4	7440.2	5287.5	3652.5	2493.4	1568.4	1094.4	906.0	801.3	738.5
25°	9514.8	9311.2	8153.9	5470.2	3416.5	2088.0	1212.4	894.6	763.2	698.5	650.9
27.5°	10597.8	10272.4	9077.1	5689.1	3201.4	1773.9	1064.0	799.4	679.5	620.5	595.7
30°	11368.7	11115.5	9849.8	5841.4	2933.1	1537.9	972.6	788.0	681.4	611.0	565.3
32.5°	12130.0	11806.5	10497.0	5911.8	2737.0	1374.2	841.3	687.1	597.7	561.5	515.8
35°	12944.7	12605.9	11142.2	5873.7	2590.5	1265.7	763.2	612.9	512.0	451.1	405.4
37.5°	13768.8	13411.0	11783.6	5736.7	2499.1	1221.9	702.3	582.4	483.4	420.6	371.2
40°	14747.1	14269.4	12385.1	5624.4	2403.9	1199.1	662.4	563.4	462.5	395.9	346.4
42.5°	15546.5	15091.6	12954.2	5565.4	2339.2	1145.8	662.4	548.2	449.2	375.0	323.6
45°	16304.1	15832.0	13569.0	5613.0	2312.6	1079.2	670.0	546.3	439.7	359.7	308.3
47.5°	16937.9	16528.7	14200.9	5791.9	2278.3	1006.9	630.0	572.9	434.0	346.4	293.1
50°	17685.9	17290.0	15036.4	6153.5	2217.4	934.5	580.5	616.7	432.1	335.0	279.8
52.5°	18740.3	18312.1	16189.9	6564.6	2120.3	824.1	534.8	611.0	424.4	316.0	266.5
55°	20028.9	19682.5	17526.0	7057.6	1987.1	700.4	462.5	542.5	401.6	283.6	243.6
57.5°	20855.0	20559.9	18527.2	7270.8	1783.4	572.9	407.3	454.9	367.3	253.1	217.0
59°	20952.0	20685.6	18736.5	7200.4	1650.2	523.4	380.7	390.2	357.8	236.0	201.8
60°	20870.2	20594.2	18652.8	7063.3	1526.5	489.2	357.8	346.4	359.7	226.5	190.3
62.5°	20344.9	19872.8	17840.1	6368.6	1334.2	449.2	317.9	283.6	317.9	203.7	169.4
65°	19330.4	18622.3	16231.7	5390.3	1258.1	426.3	270.3	237.9	241.7	178.9	146.6
67.5°	17558.4	16665.7	14090.5	4379.6	1225.8	428.3	228.4	213.2	186.5	152.3	129.4
70°	14756.6	13865.9	11305.9	3603.0	1210.5	428.3	194.1	182.7	156.1	127.5	112.3
72.5°	10457.0	9497.7	7626.7	2830.3	1090.6	426.3	165.6	165.6	127.5	106.6	91.4
75°	5908.0	5915.6	4794.5	2002.3	906.0	352.1	133.2	131.3	93.3	81.8	68.5
77.5°	3443.2	3382.2	3231.9	860.3	420.6	159.9	93.3	79.9	64.7	59.0	49.5
80°	1770.1	1456.1	1418.0	312.1	150.4	100.9	64.7	45.7	41.9	38.1	34.3
82.5°	523.4	525.3	468.2	125.6	83.7	66.6	32.4	24.7	22.8	20.9	20.9
85°	36.2	22.8	26.6	38.1	51.4	26.6	1.9	5.7	5.7	7.6	9.5
87.5°	3.8	1.9	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°	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7
2.5°	6850.1	6933.9	6777.8	6781.6	6652.2	6694.1	6541.8	6591.3	6501.8	6570.3	6772.1
5°	5154.3	5173.3	5047.7	5007.7	5026.7	5104.8	5135.2	4996.3	5055.3	4939.2	4931.6
7.5°	3631.6	3654.4	3582.1	3572.6	3709.6	3677.3	3736.3	3593.5	3458.4	3517.4	3408.9
10°	2820.8	2725.6	2577.1	2535.3	2508.6	2525.7	2525.7	2396.3	2377.3	2325.9	2403.9
12.5°	2226.9	2110.8	1970.0	1779.6	1732.0	1728.2	1657.8	1543.6	1507.4	1463.7	1528.4
15°	1617.8	1570.3	1452.3	1345.7	1237.2	1216.2	1102.0	1008.8	885.1	867.9	862.2
17.5°	1138.2	1067.8	1065.9	1005.0	942.2	900.3	793.7	687.1	639.5	633.8	633.8
20°	852.7	828.0	788.0	780.4	761.3	713.8	618.6	561.5	538.6	540.6	548.2
22.5°	717.6	700.4	664.3	647.1	639.5	597.7	527.2	489.2	477.7	477.7	479.6
25°	641.4	626.2	586.2	559.6	550.1	519.6	464.4	435.9	426.3	426.3	426.3
27.5°	584.3	565.3	523.4	500.6	483.4	449.2	414.9	386.4	376.9	376.9	378.8
30°	544.4	523.4	485.4	454.9	428.3	397.8	369.2	344.5	333.1	331.2	333.1
32.5°	491.1	472.0	434.0	414.9	384.5	348.3	325.5	302.6	291.2	293.1	291.2
35°	382.6	376.9	350.2	355.9	338.8	308.3	287.4	262.7	249.3	247.4	251.2
37.5°	348.3	325.5	295.0	296.9	291.2	279.8	245.5	218.9	209.4	209.4	211.3
40°	321.7	298.8	264.6	247.4	249.3	249.3	213.2	184.6	175.1	173.2	177.0
42.5°	298.8	276.0	237.9	209.4	201.8	211.3	180.8	152.3	142.8	138.9	142.8
45°	283.6	258.9	215.1	182.7	159.9	171.3	148.5	125.6	114.2	114.2	112.3
47.5°	268.4	245.5	197.9	158.0	133.2	127.5	121.8	100.9	89.5	87.6	89.5
50°	255.0	232.2	178.9	137.0	112.3	99.0	99.0	79.9	72.3	68.5	70.4
52.5°	241.7	217.0	161.8	121.8	97.1	79.9	70.4	64.7	59.0	57.1	59.0
55°	222.7	197.9	144.7	104.7	83.7	66.6	55.2	53.3	49.5	45.7	49.5
57.5°	199.9	177.0	127.5	89.5	66.6	51.4	45.7	43.8	40.0	38.1	38.1
59°	186.5	165.6	118.0	78.0	59.0	45.7	41.9	40.0	36.2	32.4	34.3
60°	178.9	161.8	112.3	72.3	53.3	41.9	38.1	36.2	32.4	30.5	32.4
62.5°	158.0	144.7	99.0	59.0	41.9	30.5	26.6	28.6	26.6	24.7	26.6
65°	138.9	127.5	83.7	45.7	32.4	20.9	19.0	24.7	22.8	20.9	22.8
67.5°	123.7	110.4	70.4	34.3	22.8	11.4	13.3	20.9	20.9	19.0	20.9
70°	106.6	95.2	57.1	24.7	11.4	5.7	9.5	15.2	19.0	17.1	19.0
72.5°	87.6	74.2	43.8	17.1	5.7	0.0	5.7	13.3	19.0	17.1	19.0
75°	68.5	55.2	32.4	9.5	0.0	0.0	1.9	11.4	19.0	17.1	19.0
77.5°	49.5	40.0	19.0	1.9	0.0	0.0	1.9	11.4	19.0	17.1	19.0
80°	32.4	28.6	7.6	0.0	0.0	0.0	1.9	11.4	19.0	19.0	20.9
82.5°	20.9	15.2	0.0	0.0	0.0	0.0	3.8	15.2	20.9	22.8	22.8
85°	9.5	0.0	0.0	0.0	0.0	0.0	7.6	19.0	24.7	24.7	24.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	13.3	22.8	28.6	28.6	28.6
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°	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7
2.5°	6806.4	6926.3	7095.7	7356.4	7567.7	7900.8	8155.8	8504.1	8856.3	8962.9	9128.4
5°	5009.6	5163.8	5548.3	5898.5	6119.3	6823.5	7268.9	7971.2	8601.2	8903.9	9233.1
7.5°	3479.3	3662.0	3955.2	4444.3	4908.7	5481.6	6201.1	7004.3	7927.4	8359.5	8823.9
10°	2442.0	2670.4	3083.4	3485.0	4069.4	4613.7	5323.7	6210.6	7228.9	7739.0	8321.4
12.5°	1541.7	1745.4	2291.6	2742.7	3471.7	4103.6	4758.4	5561.6	6741.7	7265.1	7876.0
15°	881.2	1052.6	1307.6	1886.2	2695.1	3530.7	4347.2	5279.9	6492.3	7137.5	7798.0
17.5°	656.7	702.3	816.5	1143.9	1880.5	2856.9	3968.5	5194.2	6661.7	7419.2	8173.0
20°	552.0	582.4	635.7	765.1	1199.1	2200.3	3599.2	5209.5	7209.9	8161.5	8877.2
22.5°	494.9	513.9	557.7	641.4	818.4	1602.6	3167.2	5298.9	7874.1	9073.2	9899.3
25°	434.0	458.7	496.8	569.1	681.4	1111.6	2740.8	5498.8	8804.9	10230.5	11007.0
27.5°	386.4	409.2	447.3	513.9	597.7	848.9	2244.0	5670.1	9787.0	11395.3	12031.0
30°	338.8	361.6	399.7	453.0	529.1	687.1	1709.2	5770.9	10740.6	12269.0	12758.1
32.5°	298.8	317.9	354.0	401.6	464.4	582.4	1347.6	5666.3	11469.6	13062.7	13390.0
35°	258.9	281.7	312.1	355.9	411.1	496.8	1121.1	5304.6	12095.8	13879.2	13997.2
37.5°	217.0	243.6	276.0	316.0	359.7	456.8	900.3	4904.9	12765.7	14897.5	14703.3
40°	182.7	207.5	237.9	281.7	321.7	418.7	692.8	4478.6	13489.0	15853.0	15474.2
42.5°	148.5	175.1	211.3	251.2	317.9	365.4	536.7	4037.0	14138.1	16684.7	16170.8
45°	118.0	140.8	178.9	230.3	316.0	314.1	414.9	3601.1	14627.2	17278.6	16690.4
47.5°	93.3	112.3	150.4	224.6	291.2	266.5	333.1	3330.9	15141.1	17813.4	17088.2
50°	74.2	93.3	129.4	234.1	255.0	228.4	279.8	3374.6	15637.9	18085.6	17251.9
52.5°	62.8	81.8	112.3	184.6	196.0	199.9	245.5	3576.4	16279.3	18376.8	17577.4
55°	55.2	72.3	95.2	129.4	152.3	178.9	224.6	3722.9	17137.7	19001.1	18295.0
57.5°	43.8	62.8	85.7	110.4	125.6	156.1	207.5	3734.4	17914.3	19802.4	19248.5
59°	40.0	57.1	79.9	104.7	112.3	140.8	196.0	3637.3	17942.8	19922.3	19686.3
60°	36.2	55.2	76.1	97.1	106.6	133.2	186.5	3525.0	17684.0	19732.0	19867.1
62.5°	30.5	47.6	66.6	78.0	91.4	110.4	161.8	3117.7	16429.7	18869.8	19532.1
65°	26.6	41.9	57.1	64.7	76.1	95.2	142.8	2495.3	15044.0	17701.1	18572.8
67.5°	24.7	38.1	49.5	55.2	66.6	87.6	127.5	1762.5	13249.2	16218.4	17132.0
70°	22.8	36.2	43.8	51.4	59.0	74.2	108.5	1027.8	10205.7	13618.4	14583.4
72.5°	22.8	34.3	38.1	43.8	51.4	66.6	100.9	555.8	6977.7	10388.5	11635.2
75°	22.8	32.4	34.3	38.1	45.7	60.9	89.5	291.2	4510.9	7217.5	8907.7
77.5°	22.8	30.5	34.3	36.2	43.8	53.3	78.0	182.7	3005.4	5055.3	6020.3
80°	24.7	30.5	32.4	36.2	41.9	49.5	64.7	121.8	1766.3	3041.5	3663.9
82.5°	26.6	30.5	34.3	38.1	43.8	47.6	57.1	76.1	814.6	2011.8	2276.4
85°	28.6	32.4	36.2	40.0	45.7	47.6	53.3	55.2	133.2	907.9	1227.7
87.5°	30.5	34.3	38.1	41.9	49.5	49.5	49.5	49.5	45.7	97.1	247.4
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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CATALOG NUMBER: GALN-SA6C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7	8275.7
2.5°	9337.8	9552.9	9703.3	9741.3	9632.8	9583.3	9446.3	9233.1	9103.7	9098.0
5°	9840.3	10344.7	10694.9	10753.9	10544.5	10190.5	9769.9	9227.4	8909.6	8814.4
7.5°	9754.6	10637.8	11201.2	11283.0	10930.9	10255.2	9440.6	8567.0	8220.6	8074.0
10°	9402.5	10479.8	11284.9	11414.4	10944.2	9992.6	8957.1	7982.6	7552.5	7440.2
12.5°	9101.8	10190.5	10906.2	11085.1	10729.2	9779.4	8667.8	7607.7	7147.1	7042.4
15°	8970.5	9847.9	10285.7	10377.0	10318.0	9646.2	8637.4	7550.6	7023.3	6909.1
17.5°	9101.8	9556.7	9611.9	9705.2	9836.5	9632.8	8930.5	7860.8	7291.7	7150.9
20°	9446.3	9303.6	9075.2	9115.1	9415.9	9688.0	9452.0	8547.9	7855.1	7704.7
22.5°	10032.5	9240.7	8723.0	8688.8	9069.4	9872.7	10217.2	9478.7	8675.4	8527.0
25°	10752.0	9398.7	8593.6	8519.4	8934.3	10142.9	11048.9	10618.8	9741.3	9514.8
27.5°	11536.2	9726.1	8593.6	8521.3	8922.9	10382.8	11760.8	11627.5	10845.3	10597.8
30°	11966.3	9996.4	8717.3	8635.5	9063.7	10521.7	12141.4	12524.0	11675.1	11368.7
32.5°	12350.8	10371.3	8959.0	8804.9	9358.8	10727.3	12482.1	13285.4	12335.6	12130.0
35°	12704.8	10772.9	9292.1	9113.2	9747.0	11009.0	12859.0	14084.8	13254.9	12944.7
37.5°	13095.0	11239.3	9811.7	9659.5	10396.1	11557.1	13306.3	15135.4	14159.0	13768.8
40°	13519.5	11779.8	10666.3	10601.6	11427.7	12177.6	13871.6	16256.5	15190.6	14747.1
42.5°	13951.5	12402.2	11713.2	11819.8	12596.3	13047.4	14452.1	17118.7	16035.7	15546.5
45°	14343.6	13197.8	13074.1	13601.3	13959.1	13896.3	14882.3	17725.9	16772.3	16304.1
47.5°	14838.5	14356.9	14720.5	15533.2	15542.7	14819.5	15207.7	18222.6	17406.1	16937.9
50°	15392.4	15725.4	16846.5	17674.5	17451.8	15727.3	15588.4	18810.8	18060.8	17685.9
52.5°	16033.8	17257.6	18810.8	19730.1	19210.5	16717.1	16222.2	19446.5	19100.1	18740.3
55°	16779.9	18302.6	20769.3	21502.1	20978.7	17946.6	17185.3	20308.7	20274.4	20028.9
57.5°	17623.1	19406.5	21903.7	22895.3	22429.0	19389.4	18531.0	21121.4	20992.0	20855.0
59°	18289.2	19973.7	22404.3	23432.1	23150.4	20400.1	19435.1	21627.7	21157.6	20952.0
60°	18692.8	20358.2	22588.9	23504.4	23439.7	21001.5	20008.0	21875.2	21155.7	20870.2
62.5°	19890.0	21030.1	22518.5	23182.8	23435.9	22154.9	21688.6	22147.3	20763.6	20344.9
65°	20316.3	20807.4	21351.7	21269.9	21486.9	22095.9	22762.1	21848.5	19926.1	19330.4
67.5°	19486.5	18365.4	18557.6	18011.4	17904.8	19644.4	22326.2	20386.7	18287.3	17558.4
70°	16425.9	14069.5	13972.5	14223.7	13534.7	15904.4	20047.9	17571.7	15582.7	14756.6
72.5°	12929.4	9943.1	9124.6	10049.7	10028.7	12133.8	16654.3	12468.8	10527.4	10457.0
75°	10167.7	6922.5	6075.5	6225.8	6515.2	8783.9	13264.4	7917.9	6482.8	5908.0
77.5°	6825.4	4904.9	4575.6	4391.0	4703.2	5639.6	8391.9	4293.9	3635.4	3443.2
80°	3934.2	3563.1	4046.5	3673.5	3841.0	3553.5	4174.0	1970.0	1635.0	1770.1
82.5°	2560.0	2029.0	2162.2	1606.4	2196.5	2215.5	1340.0	582.4	493.0	523.4
85°	1600.7	951.7	534.8	380.7	757.5	1393.2	418.7	36.2	41.9	36.2
87.5°	414.9	158.0	66.6	99.0	121.8	108.5	97.1	5.7	1.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)