

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: P527923

Luminaire Tested: **GALN-SA3A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6312 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

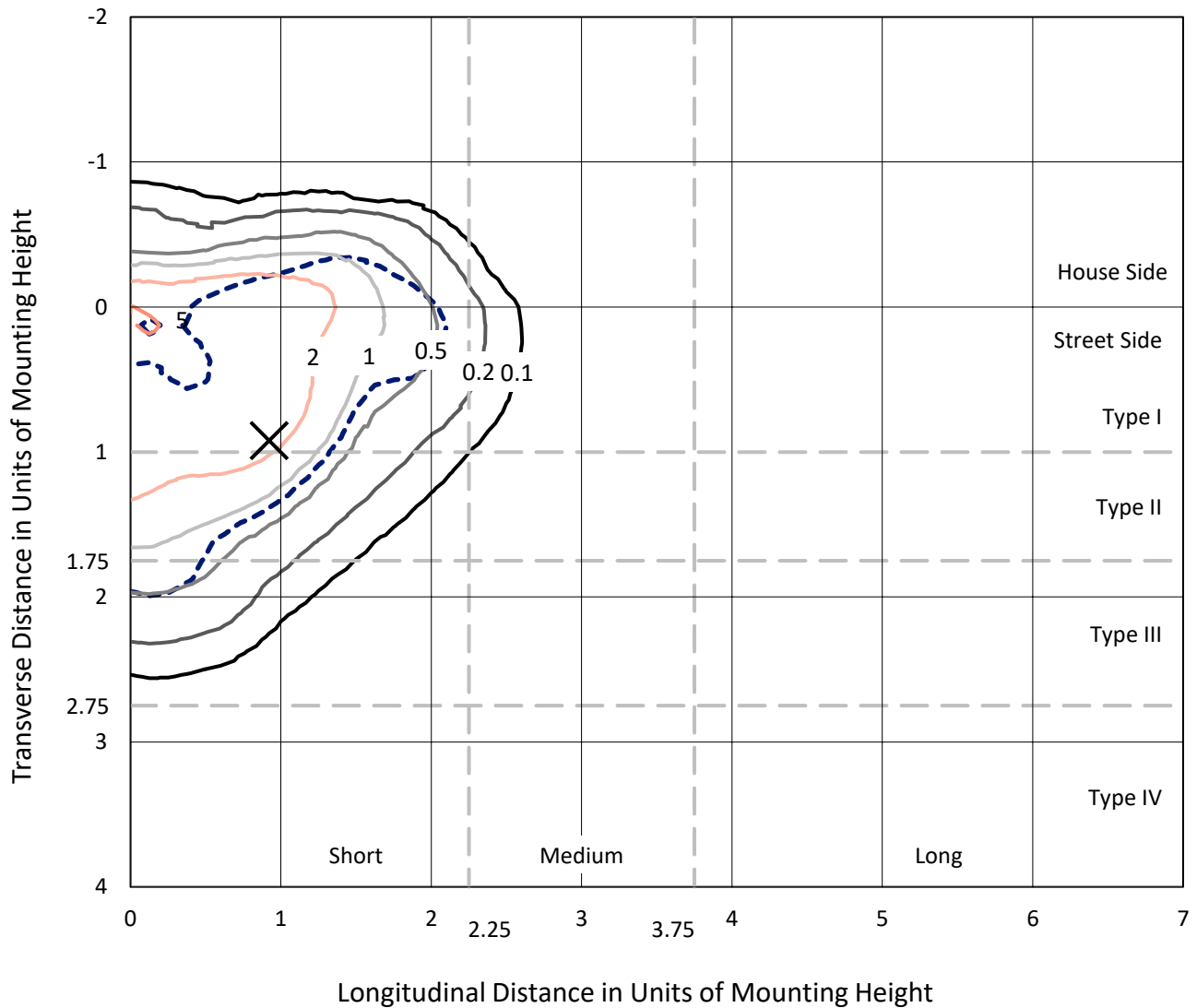
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

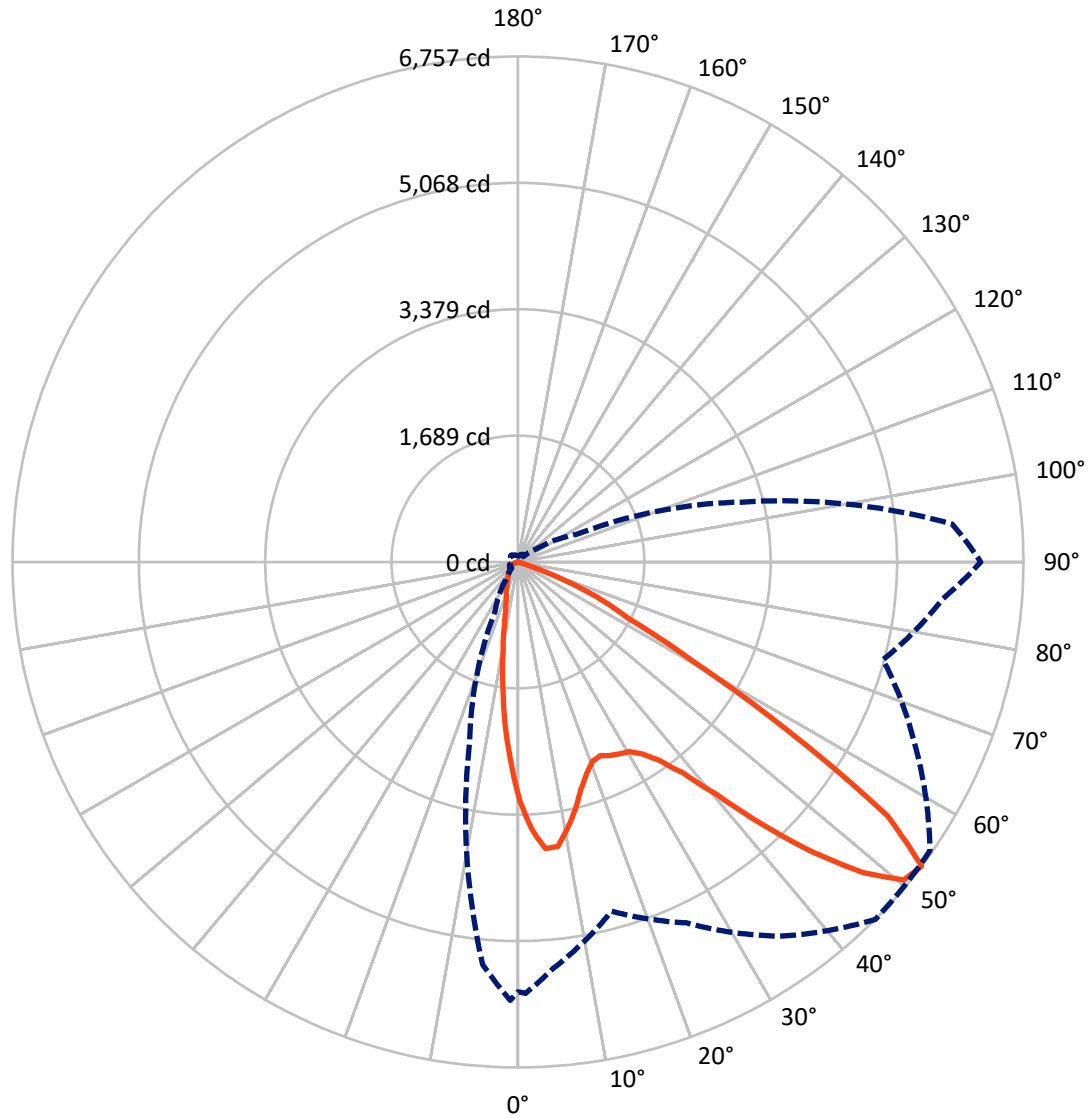
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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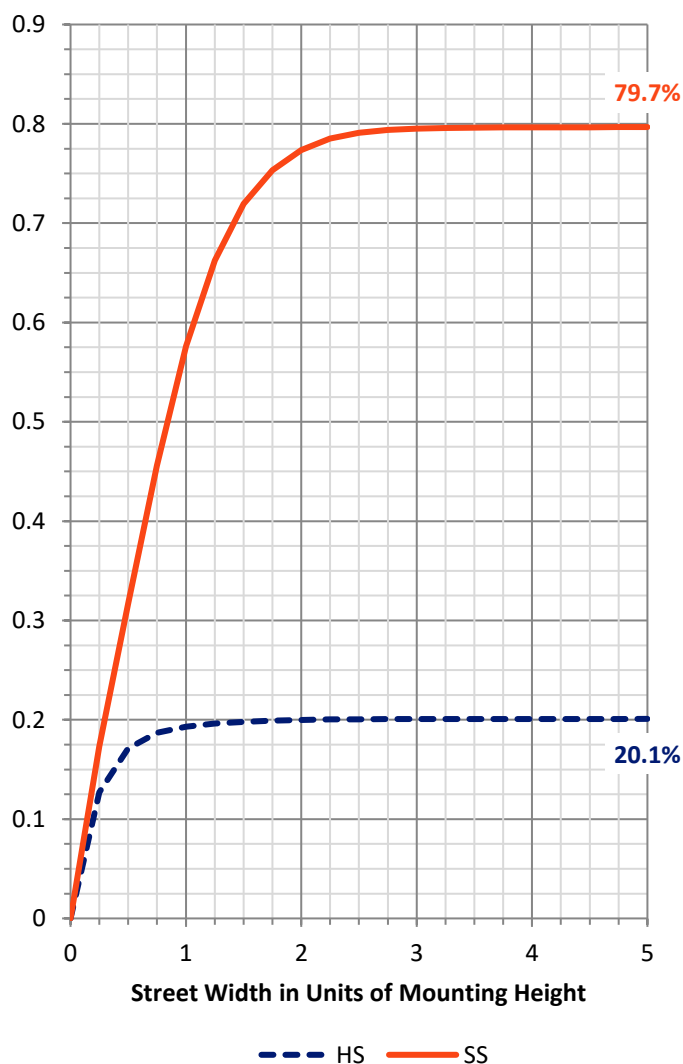
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1281.0	0.0	1281.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	5031.0	0.0	5031.0
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	6312.0	0.0	6312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.4	3.7
10°-20°	460.5	7.3
20°-30°	700.8	11.1
30°-40°	1047.4	16.6
40°-50°	1491.6	23.6
50°-60°	1603.5	25.4
60°-70°	710.5	11.3
70°-80°	57.5	0.9
80°-90°	6.7	0.1
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°	6312.0	100.0
0°-180°	6312.0	100.0

**Coefficient of Utilization**



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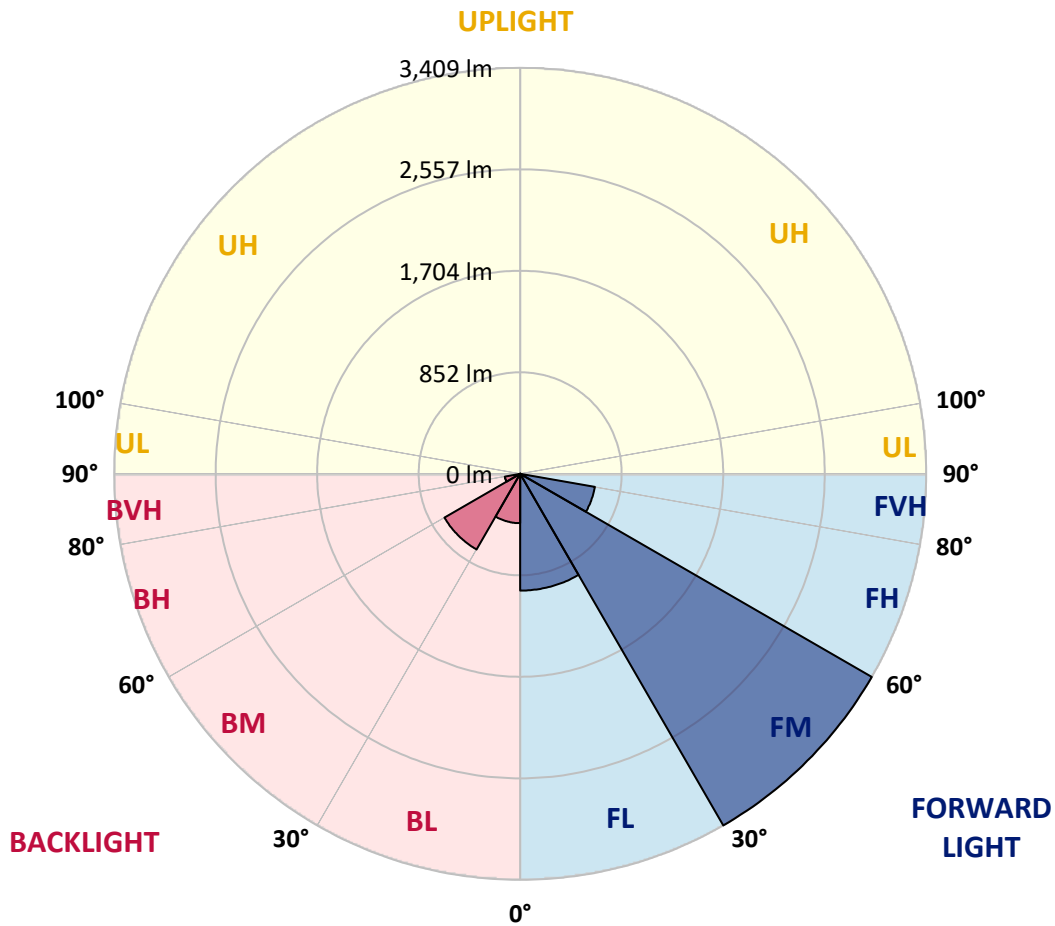
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.4	15.5			
FM (30°-60°)	3408.7	54.0			
FH (60°-80°)	637.0	10.1			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	414.3	6.6	B1/500		
BM (30°-60°)	733.9	11.6	B1/1000		
BH (60°-80°)	131.1	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	3386.7	3396.6	3451.3	3519.5	3555.5	3637.5	3580.4	3595.3	3564.2	3455.0	3369.3
5°	3283.7	3282.4	3351.9	3520.8	3680.9	3843.6	3848.5	3761.6	3608.9	3441.3	3201.7
7.5°	2973.3	3021.7	3093.7	3363.1	3659.8	3781.5	3839.8	3738.0	3503.4	3263.8	3004.3
10°	2738.7	2763.5	2885.1	3210.4	3427.7	3590.3	3626.3	3567.9	3387.9	3088.7	2798.2
12.5°	2603.3	2615.8	2758.5	3031.6	3261.3	3381.7	3399.1	3426.4	3297.3	3016.7	2667.9
15°	2604.6	2614.5	2806.9	3035.4	3126.0	3093.7	3150.8	3149.6	3205.4	3003.1	2777.1
17.5°	2792.0	2803.2	2977.0	3090.0	3050.3	2974.5	2970.8	3027.9	3145.9	3173.2	2942.3
20°	3114.8	3140.9	3268.8	3262.6	3039.1	2886.4	2844.2	2887.6	3162.0	3317.2	3275.0
22.5°	3549.3	3585.3	3674.7	3503.4	3090.0	2826.8	2813.1	2897.6	3268.8	3638.7	3652.4
25°	4053.4	4114.2	4157.6	3937.9	3271.2	2929.8	2865.3	3010.5	3412.8	3987.6	4132.8
27.5°	4387.3	4450.6	4440.7	4126.6	3392.9	2957.2	2902.5	3037.8	3538.2	4070.7	4383.6
30°	4648.0	4686.5	4756.0	4228.4	3514.6	3034.1	2941.0	3153.3	3579.1	4214.7	4686.5
32.5°	4952.2	4978.2	4983.2	4408.4	3702.0	3131.0	3060.2	3297.3	3760.4	4352.5	4954.7
35°	5258.8	5297.3	5216.6	4630.6	3817.5	3311.0	3258.8	3546.8	3905.6	4495.3	5250.1
37.5°	5591.5	5611.4	5425.2	4722.5	3982.6	3604.0	3575.4	3816.2	4157.6	4753.5	5577.9
40°	5870.9	5889.5	5647.4	4835.5	4156.4	4013.6	4086.9	4330.2	4500.3	4921.1	5741.7
42.5°	6026.0	6069.5	5721.9	4773.4	4505.2	4477.9	4803.2	4888.9	4897.5	4968.3	5888.2
45°	6068.2	6048.4	5599.0	4824.3	4810.6	5241.4	5536.9	5649.9	5292.3	5055.2	5925.5
47.5°	5873.3	5899.4	5417.7	4779.6	5211.6	5820.0	6202.3	6412.1	5586.6	4979.5	5833.6
50°	5715.7	5682.2	5359.4	4747.3	5319.6	6093.1	6682.8	6729.9	5857.2	5072.6	5733.1
52.5°	5746.7	5767.8	5452.5	4833.0	5322.1	6109.2	6757.3	6725.0	5865.9	5051.5	5697.0
55°	5812.5	5719.4	5412.8	4644.3	4965.8	5658.6	5997.5	5947.8	5414.0	4826.8	5608.9
57.5°	5015.5	5159.5	4977.0	4146.5	4075.7	4263.2	4257.0	4409.7	4038.5	4153.9	5106.1
60°	4070.7	4095.6	4163.8	3546.8	2820.6	2756.0	2666.7	2569.8	2717.6	3551.8	4644.3
62.5°	3580.4	3550.6	3793.9	3226.5	1991.3	1667.3	1652.4	1712.0	2096.8	3387.9	4356.3
65°	2602.1	2639.3	2815.6	2504.0	1494.7	1272.5	1250.1	1426.4	1697.1	2715.1	3324.6
67.5°	1589.1	1661.1	1677.2	1544.4	1014.3	805.7	773.4	933.6	1225.3	1756.7	1949.1
70°	733.7	820.6	902.5	842.9	587.2	331.5	312.8	392.3	618.2	1010.5	1034.1
72.5°	222.2	223.5	312.8	326.5	189.9	74.5	65.8	86.9	209.8	334.0	351.3
75°	16.1	17.4	42.2	48.4	36.0	18.6	19.9	23.6	44.7	74.5	55.9
77.5°	1.2	1.2	1.2	6.2	11.2	12.4	16.1	18.6	23.6	27.3	24.8
80°	1.2	0.0	1.2	5.0	8.7	12.4	14.9	17.4	18.6	21.1	18.6
82.5°	0.0	0.0	0.0	3.7	8.7	12.4	13.7	18.6	21.1	24.8	21.1
85°	0.0	0.0	0.0	3.7	8.7	13.7	12.4	6.2	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	3384.2	3335.8	3225.3	3169.4	3037.8	3019.2	2890.1	2869.0	2825.6	2802.0	2744.9
5°	3096.2	3037.8	2857.8	2706.4	2530.1	2407.2	2312.8	2227.2	2177.5	2131.6	2152.7
7.5°	2861.6	2691.5	2491.6	2238.3	2034.7	1903.2	1759.1	1641.2	1571.7	1524.5	1535.7
10°	2615.8	2505.3	2227.2	1942.9	1697.1	1604.0	1491.0	1400.4	1302.3	1217.9	1178.1
12.5°	2538.8	2374.9	2026.1	1736.8	1550.6	1460.0	1330.8	1226.6	1101.2	998.1	962.1
15°	2552.4	2394.8	1971.4	1662.3	1442.6	1286.1	1132.2	1003.1	865.3	793.3	756.0
17.5°	2774.7	2501.5	2007.4	1584.1	1292.4	1075.1	885.2	721.3	618.2	543.8	527.6
20°	3047.8	2732.4	2084.4	1527.0	1169.5	855.4	646.8	505.3	419.6	407.2	403.5
22.5°	3447.5	3109.9	2249.5	1488.5	1019.2	666.7	443.2	367.5	343.9	341.4	342.6
25°	4006.2	3582.8	2429.5	1456.2	906.3	514.0	362.5	311.6	304.2	300.4	306.6
27.5°	4248.3	3868.4	2525.1	1386.7	803.2	463.1	357.5	309.1	288.0	281.8	285.5
30°	4547.5	4058.3	2675.3	1267.5	651.8	381.1	334.0	336.4	326.5	295.5	285.5
32.5°	4944.7	4295.4	2751.1	1183.1	582.2	315.3	244.6	224.7	250.8	255.7	264.4
35°	5199.2	4536.3	2789.6	1133.5	546.2	269.4	207.3	188.7	182.5	183.7	188.7
37.5°	5672.2	4861.5	2838.0	1081.3	518.9	234.6	187.5	170.1	161.4	161.4	166.4
40°	5955.3	5119.8	2903.8	1052.8	491.6	213.5	170.1	155.2	147.7	147.7	150.2
42.5°	6026.0	5247.6	2881.4	1042.8	460.6	208.6	155.2	144.0	135.3	134.1	132.8
45°	6152.7	5442.5	2885.1	1031.7	428.3	189.9	146.5	134.1	121.7	120.4	119.2
47.5°	6291.7	5582.8	2892.6	988.2	397.3	158.9	152.7	124.1	109.2	106.8	106.8
50°	6172.5	5694.6	2957.2	944.7	357.5	129.1	150.2	116.7	96.8	93.1	94.4
52.5°	6187.4	5826.2	3093.7	883.9	307.9	103.0	121.7	110.5	88.1	81.9	83.2
55°	5949.1	5687.1	3112.3	819.4	240.8	79.5	93.1	96.8	74.5	72.0	72.0
57.5°	5121.0	4815.6	2746.1	664.2	158.9	65.8	67.0	84.4	64.6	62.1	63.3
60°	4382.3	3865.9	2209.8	438.2	99.3	52.1	48.4	85.7	57.1	55.9	59.6
62.5°	3995.0	3176.9	1676.0	271.9	68.3	39.7	33.5	69.5	49.7	49.7	54.6
65°	2886.4	2134.1	974.5	142.8	48.4	31.0	24.8	39.7	41.0	42.2	44.7
67.5°	1787.7	1077.6	410.9	69.5	32.3	21.1	16.1	24.8	27.3	27.3	29.8
70°	882.7	429.5	136.6	39.7	24.8	17.4	11.2	13.7	13.7	12.4	13.7
72.5°	273.1	129.1	34.8	24.8	17.4	11.2	6.2	5.0	2.5	0.0	1.2
75°	31.0	24.8	22.3	17.4	11.2	5.0	1.2	0.0	0.0	0.0	0.0
77.5°	18.6	21.1	21.1	17.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0
80°	14.9	16.1	17.4	16.1	9.9	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.6	21.1	23.6	21.1	13.7	6.2	2.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.7	1.2	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°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	2721.3	2694.0	2732.4	2675.3	2674.1	2675.3	2659.2	2644.3	2667.9	2731.2	2737.4
5°	2077.0	2135.3	2153.9	2214.8	2181.2	2131.6	2141.5	2108.0	2189.9	2225.9	2197.4
7.5°	1512.1	1508.4	1633.8	1641.2	1657.3	1658.6	1656.1	1590.3	1523.3	1538.2	1582.9
10°	1173.2	1109.9	1170.7	1164.5	1204.2	1193.0	1209.2	1138.4	1162.0	1162.0	1190.6
12.5°	955.9	888.9	877.7	861.6	877.7	883.9	890.1	876.5	916.2	934.8	954.7
15°	730.0	692.7	682.8	651.8	656.7	674.1	689.0	695.2	682.8	711.4	713.8
17.5°	530.1	528.9	535.1	533.8	528.9	525.1	523.9	507.8	502.8	505.3	515.2
20°	402.2	412.2	433.3	454.4	465.5	451.9	433.3	406.0	394.8	397.3	398.5
22.5°	343.9	358.8	387.3	410.9	422.1	397.3	363.7	340.2	335.2	334.0	332.7
25°	311.6	329.0	350.1	357.5	356.3	341.4	316.6	306.6	304.2	301.7	290.5
27.5°	294.2	300.4	304.2	312.8	316.6	306.6	300.4	285.5	283.1	283.1	275.6
30°	284.3	280.6	285.5	279.3	284.3	276.8	278.1	278.1	271.9	274.4	274.4
32.5°	264.4	265.7	265.7	253.3	257.0	248.3	257.0	264.4	265.7	266.9	276.8
35°	193.7	216.0	227.2	227.2	230.9	224.7	223.5	214.8	203.6	192.4	187.5
37.5°	170.1	178.8	193.7	202.4	208.6	203.6	192.4	178.8	172.6	167.6	162.6
40°	151.5	158.9	168.8	178.8	191.2	185.0	167.6	161.4	153.9	153.9	149.0
42.5°	136.6	140.3	146.5	161.4	175.0	162.6	150.2	145.3	141.5	140.3	139.0
45°	122.9	124.1	130.4	142.8	158.9	146.5	134.1	127.9	129.1	130.4	129.1
47.5°	110.5	113.0	116.7	131.6	141.5	135.3	121.7	117.9	117.9	117.9	119.2
50°	95.6	101.8	109.2	121.7	129.1	125.4	114.2	109.2	106.8	106.8	108.0
52.5°	85.7	90.6	100.6	115.5	125.4	119.2	108.0	100.6	95.6	94.4	96.8
55°	74.5	83.2	99.3	110.5	124.1	117.9	105.5	96.8	88.1	86.9	86.9
57.5°	67.0	80.7	95.6	109.2	120.4	115.5	105.5	94.4	83.2	81.9	81.9
60°	63.3	78.2	93.1	105.5	120.4	113.0	104.3	91.9	79.5	79.5	78.2
62.5°	59.6	73.2	88.1	100.6	115.5	109.2	100.6	88.1	75.7	75.7	73.2
65°	49.7	63.3	73.2	84.4	100.6	94.4	85.7	77.0	67.0	64.6	65.8
67.5°	34.8	43.5	53.4	64.6	74.5	72.0	68.3	62.1	53.4	52.1	50.9
70°	17.4	23.6	32.3	43.5	52.1	49.7	47.2	42.2	37.2	36.0	36.0
72.5°	2.5	7.4	13.7	19.9	27.3	28.6	27.3	26.1	24.8	23.6	24.8
75°	0.0	0.0	0.0	5.0	11.2	13.7	16.1	18.6	18.6	16.1	19.9
77.5°	0.0	0.0	0.0	0.0	1.2	6.2	12.4	16.1	19.9	17.4	23.6
80°	0.0	0.0	0.0	0.0	1.2	7.4	12.4	17.4	19.9	17.4	24.8
82.5°	0.0	0.0	0.0	0.0	1.2	8.7	12.4	16.1	18.6	17.4	22.3
85°	0.0	0.0	0.0	0.0	3.7	7.4	5.0	2.5	1.2	1.2	3.7
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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 CATALOG NUMBER: GALN-SA3A-727-U-SLL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	2772.2	2860.3	2954.7	2990.7	3102.4	3186.8	3243.9	3366.8	3385.5	3386.7
5°	2227.2	2271.9	2433.3	2509.0	2675.3	2804.5	2942.3	3140.9	3273.7	3283.7
7.5°	1582.9	1707.0	1775.3	1972.7	2177.5	2379.9	2584.7	2815.6	2969.6	2973.3
10°	1273.7	1354.4	1476.1	1623.8	1796.4	2002.5	2275.6	2543.7	2700.2	2738.7
12.5°	1025.4	1167.0	1306.0	1458.7	1590.3	1745.5	2039.7	2397.3	2526.4	2603.3
15°	789.6	918.7	1082.6	1261.3	1410.3	1617.6	1952.8	2361.3	2578.5	2604.6
17.5°	582.2	697.7	849.2	1018.0	1241.5	1535.7	1967.7	2543.7	2748.6	2792.0
20°	418.4	485.4	604.6	800.7	1085.0	1440.1	1982.6	2728.7	3040.3	3114.8
22.5°	331.5	358.8	437.0	610.8	910.0	1339.5	2088.1	3082.5	3441.3	3549.3
25°	288.0	302.9	340.2	481.7	799.5	1329.6	2257.0	3507.1	3975.1	4053.4
27.5°	278.1	280.6	312.8	442.0	739.9	1263.8	2321.5	3808.8	4307.9	4387.3
30°	293.0	332.7	335.2	373.7	629.4	1133.5	2355.0	4100.5	4589.7	4648.0
32.5°	253.3	240.8	249.5	289.3	553.7	1057.7	2418.4	4355.0	4911.2	4952.2
35°	176.3	185.0	204.8	250.8	484.2	978.3	2434.5	4635.6	5216.6	5258.8
37.5°	162.6	167.6	183.7	213.5	425.8	933.6	2412.2	4840.4	5533.2	5591.5
40°	151.5	157.7	166.4	193.7	382.4	883.9	2381.1	5025.4	5726.8	5870.9
42.5°	142.8	147.7	155.2	185.0	345.1	834.3	2337.7	5286.1	5900.6	6026.0
45°	132.8	140.3	149.0	180.0	324.0	800.7	2305.4	5270.0	6001.2	6068.2
47.5°	122.9	135.3	145.3	167.6	317.8	784.6	2319.0	5209.2	5919.3	5873.3
50°	113.0	129.1	146.5	139.0	302.9	752.3	2335.2	5292.3	5724.4	5715.7
52.5°	104.3	122.9	136.6	114.2	269.4	721.3	2491.6	5401.6	5862.2	5746.7
55°	91.9	110.5	109.2	91.9	218.5	697.7	2614.5	5404.1	5769.1	5812.5
57.5°	83.2	98.1	85.7	77.0	161.4	583.5	2414.6	4531.3	4938.5	5015.5
60°	77.0	95.6	64.6	60.8	105.5	420.9	2108.0	3509.6	3925.5	4070.7
62.5°	70.8	90.6	50.9	49.7	73.2	299.2	1733.1	2937.3	3383.0	3580.4
65°	62.1	64.6	41.0	38.5	52.1	161.4	1055.2	2022.3	2528.8	2602.1
67.5°	50.9	49.7	33.5	31.0	34.8	78.2	465.5	1013.0	1466.2	1589.1
70°	41.0	41.0	28.6	24.8	24.8	36.0	121.7	403.5	662.9	733.7
72.5°	29.8	31.0	22.3	19.9	18.6	17.4	19.9	80.7	173.8	222.2
75°	26.1	27.3	22.3	17.4	13.7	11.2	8.7	7.4	9.9	16.1
77.5°	28.6	28.6	23.6	16.1	12.4	8.7	5.0	2.5	2.5	1.2
80°	36.0	37.2	31.0	21.1	14.9	9.9	6.2	2.5	1.2	1.2
82.5°	38.5	42.2	34.8	26.1	18.6	11.2	6.2	1.2	0.0	0.0
85°	9.9	16.1	27.3	23.6	18.6	11.2	6.2	1.2	0.0	0.0
87.5°	0.0	1.2	3.7	3.7	5.0	5.0	3.7	1.2	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)