

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: P527223

Luminaire Tested: **GALN-SA2B-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5291 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

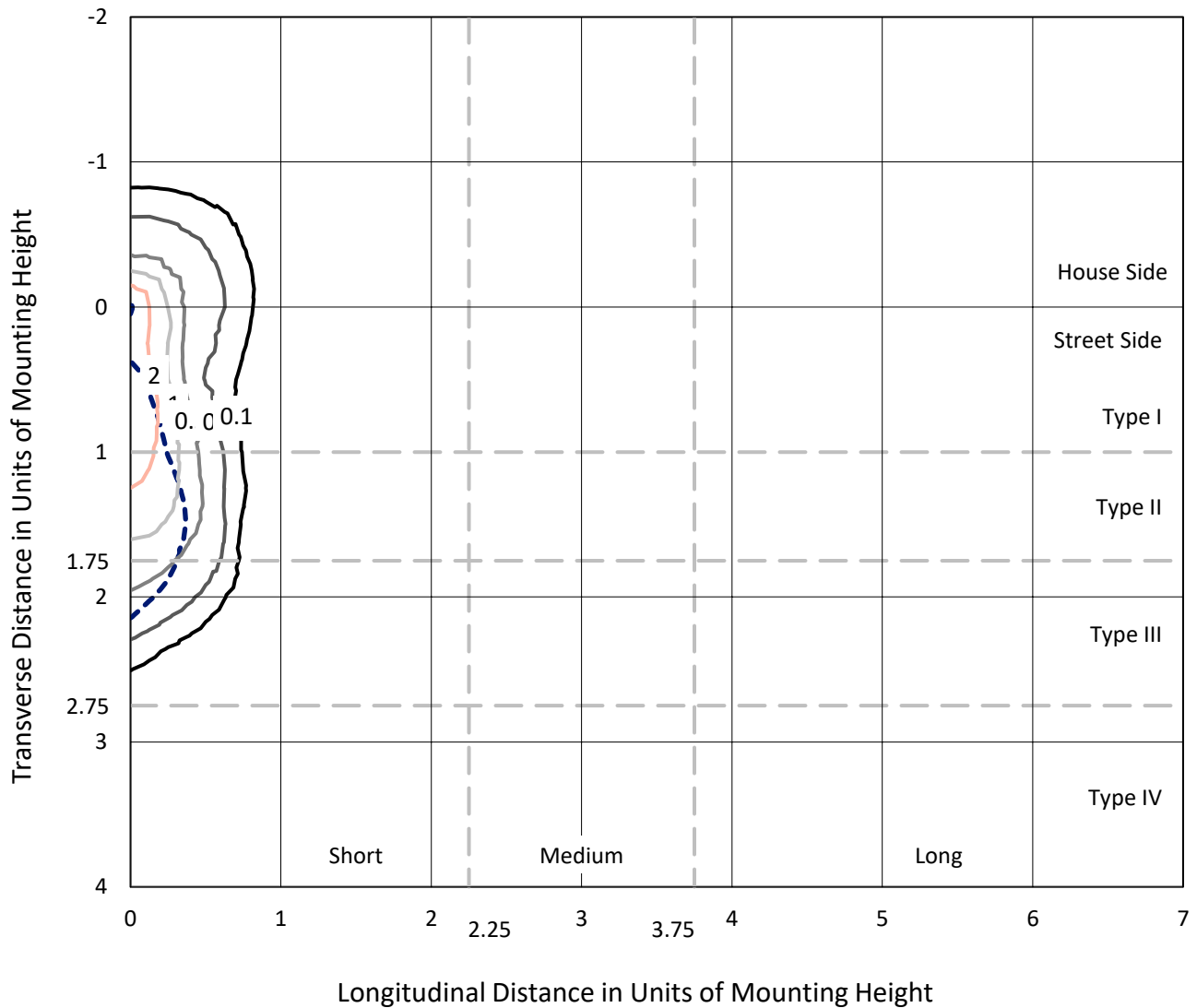
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

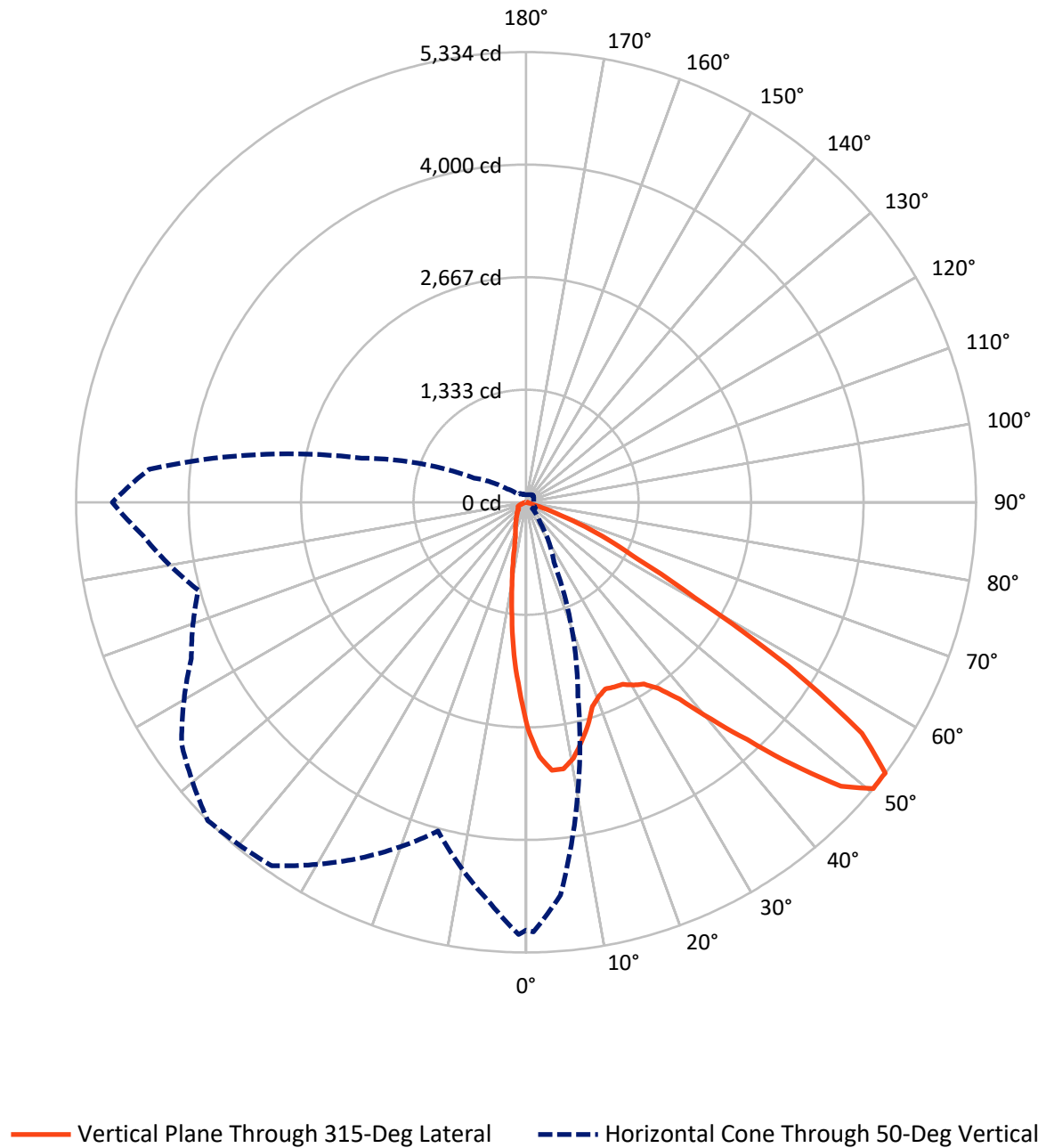
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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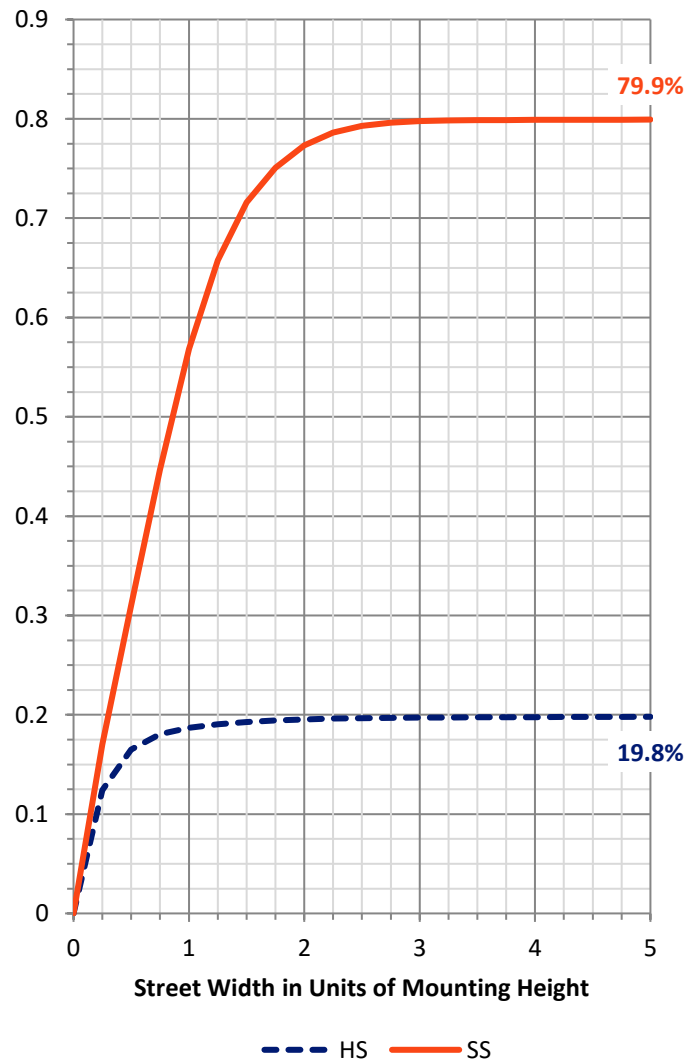
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1059.8	0.0	1059.8
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	4231.2	0.0	4231.2
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	5291.0	0.0	5291.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.6	3.7
10°-20°	388.7	7.3
20°-30°	583.9	11.0
30°-40°	876.5	16.6
40°-50°	1231.8	23.3
50°-60°	1328.8	25.1
60°-70°	616.9	11.7
70°-80°	58.0	1.1
80°-90°	10.7	0.2
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°	5291.0	100.0
0°-180°	5291.0	100.0



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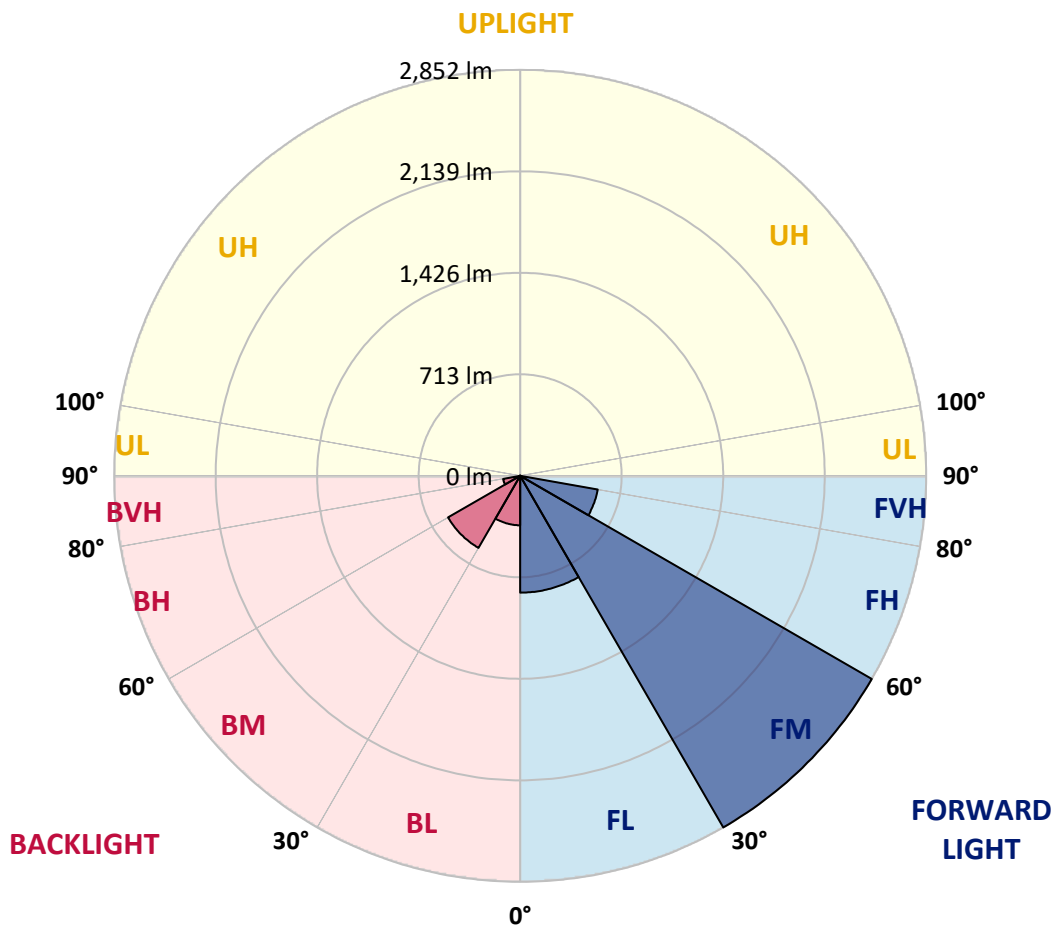
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.9	15.5			
FM (30°-60°)	2852.2	53.9			
FH (60°-80°)	553.3	10.5			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	347.4	6.6	B1/500		
BM (30°-60°)	584.8	11.1	B1/1000		
BH (60°-80°)	121.7	2.3	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			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°	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2
2.5°	2789.2	2746.2	2691.6	2646.5	2579.3	2443.9	2407.1	2363.0	2326.3	2276.9	2207.7
5°	2536.2	2522.6	2497.4	2327.3	2204.5	2040.7	1906.4	1849.7	1775.2	1714.3	1670.2
7.5°	2343.1	2288.5	2208.7	2037.6	1841.3	1666.0	1516.9	1429.8	1331.1	1297.5	1237.7
10°	2136.3	2148.9	2031.3	1790.9	1553.7	1411.9	1319.6	1235.6	1146.3	1087.6	1002.5
12.5°	2070.1	2029.2	1938.9	1641.8	1439.2	1307.0	1194.6	1090.7	996.2	901.7	819.9
15°	2113.2	2050.2	1924.2	1610.3	1351.0	1186.2	1045.6	904.9	817.8	697.0	612.0
17.5°	2267.5	2217.1	2048.1	1643.9	1305.9	1070.8	861.9	717.0	583.7	474.5	431.5
20°	2524.7	2453.3	2241.3	1687.0	1238.7	931.1	699.1	520.7	394.7	348.5	324.4
22.5°	2776.6	2737.8	2470.1	1769.9	1178.9	807.3	524.9	350.6	295.0	286.6	270.8
25°	3256.4	3139.9	2819.7	1920.0	1132.7	690.7	395.8	282.4	249.8	243.5	245.6
27.5°	3541.9	3444.3	3143.0	2019.8	1081.3	601.5	334.9	259.3	237.2	223.6	218.4
30°	3815.9	3702.5	3303.6	2078.5	971.0	507.0	297.1	248.8	243.5	223.6	217.3
32.5°	4026.9	3915.6	3535.6	2166.7	925.9	446.2	244.6	194.2	180.6	178.5	197.4
35°	4350.2	4231.6	3734.0	2215.0	891.3	414.7	212.1	173.2	157.5	151.2	152.2
37.5°	4651.5	4570.7	3917.7	2233.9	854.5	405.2	190.0	155.4	141.7	137.5	136.5
40°	4903.5	4722.9	4092.0	2253.8	838.8	387.4	176.4	141.7	132.3	126.0	126.0
42.5°	5018.9	4835.2	4287.2	2242.3	834.6	359.0	176.4	130.2	122.8	116.5	115.5
45°	4993.7	4919.2	4374.4	2237.1	834.6	330.7	160.6	127.0	116.5	108.1	106.0
47.5°	5058.8	4961.2	4483.6	2259.1	817.8	310.7	135.4	133.3	110.2	99.7	97.6
50°	5070.4	5089.3	4673.6	2373.5	781.0	285.5	106.0	131.2	106.0	90.3	88.2
52°	5146.0	5028.4	4731.3	2434.4	742.2	266.6	89.2	112.3	101.8	84.0	81.9
52.5°	5042.0	5118.7	4744.9	2456.5	746.4	254.0	86.1	110.2	99.7	84.0	78.7
55°	4925.5	4999.0	4689.3	2503.7	684.4	199.5	67.2	79.8	90.3	73.5	70.3
57.5°	4280.9	4355.5	4075.2	2292.7	557.4	140.7	55.6	59.8	79.8	68.2	65.1
60°	3805.4	3751.9	3420.1	1912.7	395.8	78.7	44.1	46.2	87.1	63.0	61.9
62.5°	3477.9	3363.5	2858.5	1477.0	241.4	52.5	34.6	35.7	67.2	58.8	58.8
65°	2573.0	2444.9	1899.0	893.4	118.6	36.7	26.2	28.3	42.0	50.4	50.4
67.5°	1468.6	1419.3	917.5	403.1	49.3	23.1	19.9	22.0	32.5	40.9	38.8
70°	675.0	605.7	352.7	85.0	23.1	15.7	15.7	17.8	26.2	30.4	28.3
72.5°	197.4	186.9	86.1	13.6	9.4	9.4	10.5	13.6	19.9	23.1	21.0
75°	14.7	9.4	6.3	4.2	4.2	6.3	8.4	13.6	19.9	22.0	17.8
77.5°	1.0	2.1	1.0	1.0	3.1	6.3	9.4	16.8	26.2	27.3	19.9
80°	1.0	1.0	0.0	1.0	3.1	6.3	10.5	18.9	29.4	31.5	16.8
82.5°	0.0	0.0	0.0	1.0	4.2	8.4	12.6	19.9	27.3	33.6	17.8
85°	0.0	0.0	0.0	1.0	6.3	11.5	14.7	5.2	3.1	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°	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2
2.5°	2257.0	2229.7	2219.2	2228.7	2225.5	2222.4	2280.1	2267.5	2265.4	2284.3	2280.1
5°	1694.3	1646.0	1778.3	1724.8	1780.4	1814.0	1820.3	1823.4	1862.3	1821.3	1874.9
7.5°	1207.2	1219.8	1218.8	1254.5	1318.5	1375.2	1408.8	1382.5	1380.4	1375.2	1352.1
10°	964.7	942.7	938.5	930.1	950.0	998.3	1039.3	1006.7	983.6	1015.1	1005.7
12.5°	788.4	757.9	741.1	707.5	708.6	741.1	741.1	741.1	764.2	782.1	795.7
15°	604.7	579.5	579.5	545.9	538.5	539.6	556.4	558.5	595.2	605.7	611.0
17.5°	423.1	409.4	425.2	438.8	430.4	432.5	438.8	440.9	446.2	442.0	452.4
20°	325.4	323.3	327.5	351.7	369.5	380.0	372.7	362.2	355.9	341.2	341.2
22.5°	276.1	280.3	287.6	307.6	330.7	337.0	328.6	304.4	285.5	283.4	284.5
25°	245.6	249.8	261.4	274.0	286.6	297.1	288.7	270.8	260.3	250.9	250.9
27.5°	226.7	228.8	235.1	244.6	255.1	263.5	260.3	250.9	239.3	235.1	225.7
30°	212.1	215.2	222.6	224.7	234.1	238.3	233.0	230.9	223.6	218.4	215.2
32.5°	204.7	203.7	208.9	211.0	212.1	215.2	208.9	212.1	211.0	202.6	199.5
35°	154.3	162.7	176.4	187.9	191.1	195.3	194.2	190.0	178.5	169.0	157.5
37.5°	138.6	143.8	151.2	160.6	173.2	178.5	176.4	165.9	152.2	145.9	143.8
40°	128.1	131.2	137.5	143.8	156.4	165.9	158.5	149.1	138.6	133.3	130.2
42.5°	118.6	119.7	122.8	129.1	138.6	153.3	140.7	128.1	123.9	120.7	118.6
45°	108.1	108.1	112.3	115.5	126.0	139.6	127.0	115.5	113.4	111.3	110.2
47.5°	99.7	100.8	102.9	107.1	115.5	124.9	116.5	107.1	101.8	100.8	98.7
50°	89.2	90.3	94.5	98.7	109.2	114.4	109.2	98.7	93.4	90.3	90.3
52°	80.8	84.0	88.2	96.6	103.9	112.3	106.0	94.5	88.2	85.0	82.9
52.5°	79.8	81.9	86.1	95.5	103.9	111.3	105.0	93.4	86.1	84.0	81.9
55°	71.4	74.5	81.9	93.4	102.9	111.3	102.9	92.4	81.9	76.6	74.5
57.5°	68.2	70.3	79.8	94.5	101.8	111.3	102.9	92.4	81.9	72.4	70.3
60°	65.1	69.3	79.8	91.3	100.8	112.3	103.9	91.3	79.8	68.2	68.2
62.5°	61.9	65.1	78.7	89.2	96.6	108.1	99.7	89.2	76.6	65.1	64.0
65°	53.5	58.8	69.3	74.5	82.9	93.4	85.0	77.7	67.2	57.7	56.7
67.5°	40.9	43.0	51.4	57.7	63.0	72.4	68.2	58.8	51.4	44.1	44.1
70°	28.3	30.4	36.7	39.9	45.1	50.4	47.2	39.9	34.6	30.4	29.4
72.5°	19.9	21.0	23.1	25.2	27.3	29.4	28.3	23.1	19.9	18.9	17.8
75°	15.7	17.8	18.9	17.8	16.8	15.7	15.7	13.6	11.5	10.5	10.5
77.5°	15.7	16.8	15.7	13.6	11.5	10.5	9.4	8.4	6.3	5.2	6.3
80°	13.6	13.6	13.6	11.5	10.5	9.4	8.4	7.3	6.3	5.2	5.2
82.5°	14.7	14.7	13.6	11.5	11.5	9.4	9.4	8.4	7.3	5.2	5.2
85°	0.0	0.0	0.0	2.1	5.2	9.4	9.4	8.4	7.3	6.3	6.3
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	5.2	6.3	6.3	6.3
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°	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2
2.5°	2317.9	2357.8	2433.4	2508.9	2555.1	2609.7	2708.4	2760.9	2829.1	2862.7	2928.8
5°	1867.5	1962.0	1995.6	2081.7	2174.1	2266.4	2413.4	2575.1	2709.4	2801.8	2921.5
7.5°	1362.6	1384.6	1514.8	1572.6	1723.7	1891.7	2092.2	2295.8	2465.9	2617.1	2708.4
10°	1021.4	1102.3	1184.1	1294.4	1416.1	1589.3	1781.5	2006.1	2226.6	2377.7	2493.2
12.5°	820.9	885.0	994.1	1112.8	1262.9	1377.3	1570.5	1793.0	2078.5	2226.6	2378.8
15°	621.5	703.3	827.2	950.0	1108.6	1229.3	1424.5	1704.8	2072.2	2275.9	2407.1
17.5°	460.8	516.5	627.8	765.3	926.9	1097.0	1360.5	1695.4	2142.6	2385.1	2520.5
20°	352.7	371.6	442.0	564.8	740.1	962.6	1256.6	1736.3	2350.4	2650.7	2788.2
22.5°	285.5	293.9	321.2	406.3	576.3	845.1	1207.2	1764.7	2584.5	2968.7	3152.4
25°	248.8	246.7	264.5	301.3	450.3	734.8	1144.2	1871.7	2871.1	3342.5	3507.3
27.5°	226.7	226.7	235.1	261.4	373.7	663.5	1104.4	1948.4	3159.8	3671.0	3760.3
30°	215.2	217.3	241.4	249.8	310.7	578.4	1038.2	2026.0	3435.9	3881.0	4003.8
32.5°	199.5	191.1	185.8	206.8	261.4	501.8	972.1	2058.6	3659.5	4138.2	4243.2
35°	153.3	149.1	155.4	171.1	224.7	436.7	898.6	2095.3	3916.7	4436.3	4457.3
37.5°	138.6	137.5	141.7	155.4	189.0	380.0	846.1	2085.9	4113.0	4683.0	4626.3
40°	128.1	128.1	131.2	142.8	169.0	340.1	791.5	2077.5	4303.0	4960.1	4794.3
42.5°	119.7	119.7	124.9	132.3	160.6	313.9	750.6	2065.9	4462.6	5130.2	4893.0
45°	108.1	111.3	119.7	127.0	162.7	296.0	720.1	2021.9	4517.1	5128.1	4845.7
47.5°	99.7	103.9	112.3	122.8	147.0	290.8	699.1	1983.0	4498.3	5002.1	4697.7
50°	90.3	95.5	107.1	124.9	124.9	280.3	677.1	2017.7	4484.6	4904.5	4556.0
52°	84.0	88.2	102.9	121.8	109.2	258.2	663.5	2084.8	4540.2	4891.9	4493.0
52.5°	82.9	86.1	99.7	119.7	103.9	254.0	654.0	2100.6	4558.1	4860.4	4536.0
55°	73.5	77.7	91.3	93.4	85.0	208.9	623.6	2136.3	4469.9	4798.5	4495.1
57.5°	69.3	71.4	80.8	76.6	73.5	157.5	536.4	2080.6	3970.2	4262.1	4182.3
60°	64.0	66.1	75.6	59.8	61.9	110.2	403.1	1806.6	3188.1	3551.4	3695.2
62.5°	61.9	60.9	71.4	48.3	52.5	79.8	284.5	1468.6	2456.5	2923.6	3172.4
65°	54.6	53.5	51.4	40.9	45.1	61.9	170.1	958.4	1731.1	2211.9	2348.3
67.5°	42.0	44.1	37.8	32.5	37.8	48.3	94.5	429.4	908.0	1326.9	1437.1
70°	29.4	31.5	30.4	28.3	33.6	39.9	54.6	147.0	375.8	697.0	768.4
72.5°	17.8	22.0	23.1	24.1	29.4	34.6	38.8	47.2	99.7	246.7	306.5
75°	10.5	14.7	17.8	21.0	24.1	29.4	32.5	33.6	34.6	46.2	74.5
77.5°	7.3	10.5	15.7	19.9	24.1	29.4	34.6	36.7	34.6	32.5	34.6
80°	6.3	10.5	14.7	18.9	25.2	30.4	34.6	34.6	33.6	29.4	31.5
82.5°	6.3	10.5	15.7	19.9	24.1	29.4	33.6	34.6	31.5	29.4	30.4
85°	7.3	11.5	16.8	21.0	26.2	24.1	22.0	17.8	16.8	13.6	14.7
87.5°	7.3	10.5	10.5	11.5	12.6	12.6	12.6	11.5	9.4	8.4	8.4
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-SA2B-727-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2	2683.2
2.5°	2932.0	3016.0	3012.8	3014.9	3002.3	2917.3	2876.4	2772.4	2801.8	2789.2
5°	3044.3	3127.3	3198.6	3190.2	3093.7	2978.2	2807.1	2645.4	2601.3	2536.2
7.5°	2932.0	3131.5	3197.6	3188.1	3045.4	2897.4	2624.4	2462.8	2386.1	2343.1
10°	2753.5	2984.5	3066.4	3083.2	2986.6	2761.9	2511.0	2251.7	2210.8	2136.3
12.5°	2651.7	2819.7	2870.1	2915.2	2881.6	2713.6	2425.0	2176.2	2119.5	2070.1
15°	2568.8	2668.5	2689.5	2740.9	2760.9	2670.6	2470.1	2258.0	2118.4	2113.2
17.5°	2645.4	2604.5	2527.8	2543.6	2606.6	2671.7	2586.6	2419.7	2284.3	2267.5
20°	2772.4	2591.9	2418.7	2457.5	2510.0	2709.4	2763.0	2645.4	2567.7	2524.7
22.5°	2918.4	2613.9	2384.0	2402.9	2502.6	2794.5	3048.5	2983.4	2838.6	2776.6
25°	3188.1	2674.8	2411.3	2423.9	2560.4	2913.1	3306.8	3355.1	3269.0	3256.4
27.5°	3451.6	2832.3	2471.2	2442.8	2589.8	3028.6	3463.2	3722.5	3571.3	3541.9
30°	3586.0	2960.3	2560.4	2512.1	2711.5	3098.9	3557.7	3961.8	3829.5	3815.9
32.5°	3791.8	3076.9	2629.7	2567.7	2779.8	3186.0	3734.0	4223.2	4095.1	4026.9
35°	3877.8	3203.9	2781.9	2709.4	2975.0	3307.8	3824.3	4456.3	4416.4	4350.2
37.5°	4043.7	3340.4	2961.4	2957.2	3211.2	3466.3	3987.0	4773.3	4765.9	4651.5
40°	4057.3	3489.4	3244.8	3377.1	3576.6	3742.4	4129.8	4861.5	4981.1	4903.5
42.5°	4078.3	3750.8	3735.1	3844.2	4015.4	3979.7	4135.0	4882.5	5065.1	5018.9
45°	4087.8	4012.2	4233.7	4435.3	4506.6	4290.4	4085.7	4842.6	5109.2	4993.7
47.5°	4012.2	4236.9	4636.8	5026.3	5047.3	4481.5	4064.7	4801.6	5135.5	5058.8
50°	4022.7	4377.5	4985.3	5333.9	5257.2	4650.5	4032.2	4776.4	5121.8	5070.4
52°	3997.5	4380.7	5034.7	5327.6	5274.0	4557.0	3976.5	4679.9	5109.2	5146.0
52.5°	4025.9	4361.8	4983.2	5331.8	5262.5	4603.2	3969.2	4733.4	5116.6	5042.0
55°	3928.2	4137.1	4682.0	4830.0	4819.5	4178.1	3743.5	4556.0	4924.5	4925.5
57.5°	3550.3	3586.0	3672.1	3668.9	3620.6	3284.7	3201.8	4189.6	4390.1	4280.9
60°	3128.3	2625.5	2393.5	2299.0	2245.5	2190.9	2832.3	3832.7	3851.6	3805.4
62.5°	2703.1	1820.3	1511.7	1485.4	1498.0	1697.5	2737.8	3691.0	3577.6	3477.9
65°	2181.4	1326.9	1098.1	1063.4	1186.2	1401.4	2216.1	2830.2	2655.9	2573.0
67.5°	1369.9	967.9	742.2	677.1	825.1	964.7	1456.0	1778.3	1583.0	1468.6
70°	812.5	540.6	335.9	301.3	339.1	514.4	815.7	887.1	733.8	675.0
72.5°	320.2	198.4	93.4	79.8	82.9	180.6	300.2	292.9	221.5	197.4
75°	86.1	59.8	32.5	26.2	22.0	33.6	48.3	31.5	11.5	14.7
77.5°	39.9	35.7	28.3	22.0	16.8	12.6	6.3	2.1	2.1	1.0
80°	34.6	30.4	26.2	22.0	16.8	10.5	5.2	1.0	1.0	1.0
82.5°	32.5	28.3	24.1	19.9	15.7	10.5	5.2	1.0	0.0	0.0
85°	13.6	17.8	19.9	18.9	16.8	10.5	5.2	1.0	0.0	0.0
87.5°	7.3	6.3	5.2	4.2	3.1	2.1	2.1	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

(END OF REPORT)