

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: P451596

Luminaire Tested: **GALN-SA2C-727-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451596  
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-SA2C-727-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 8491 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

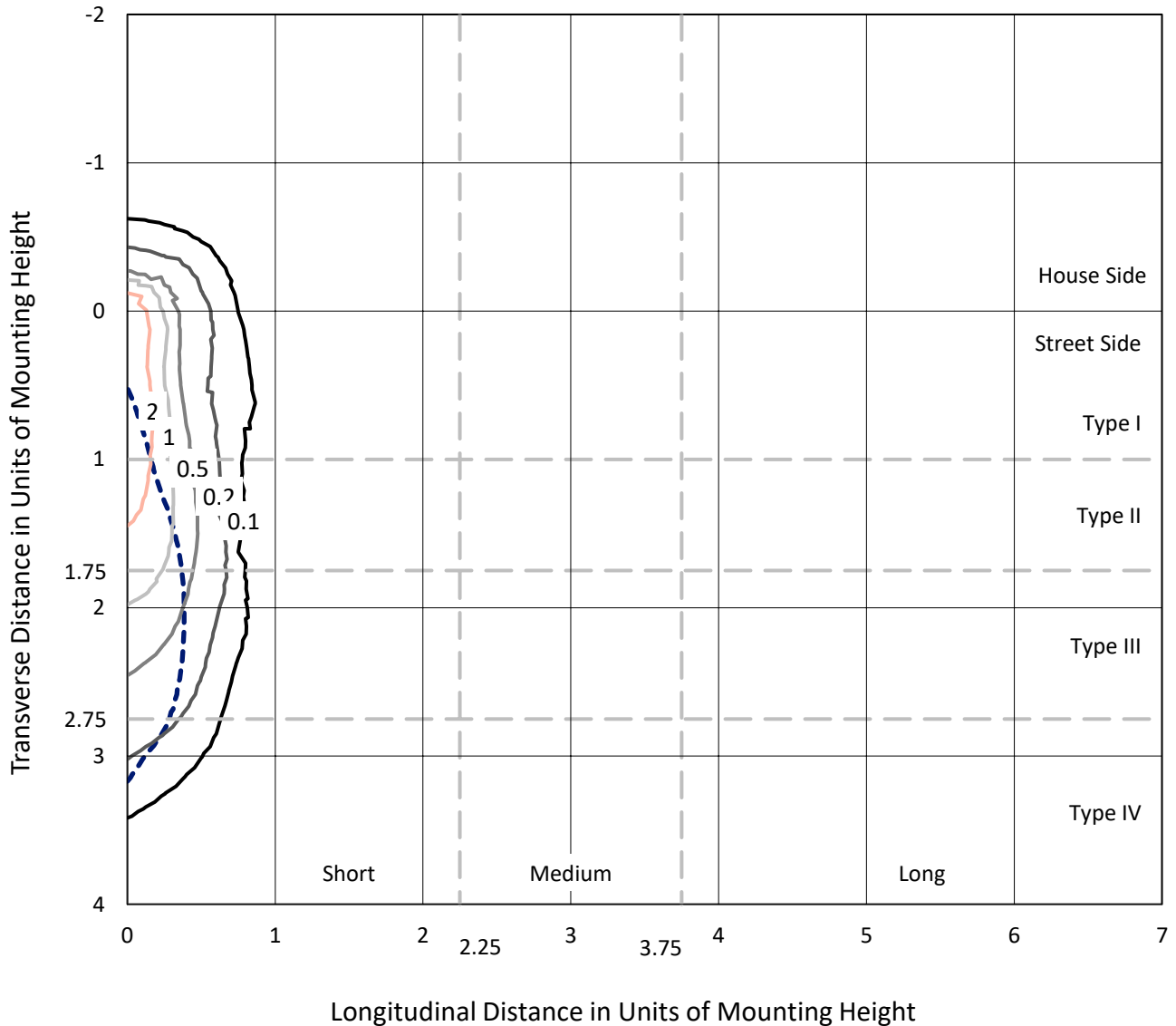
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

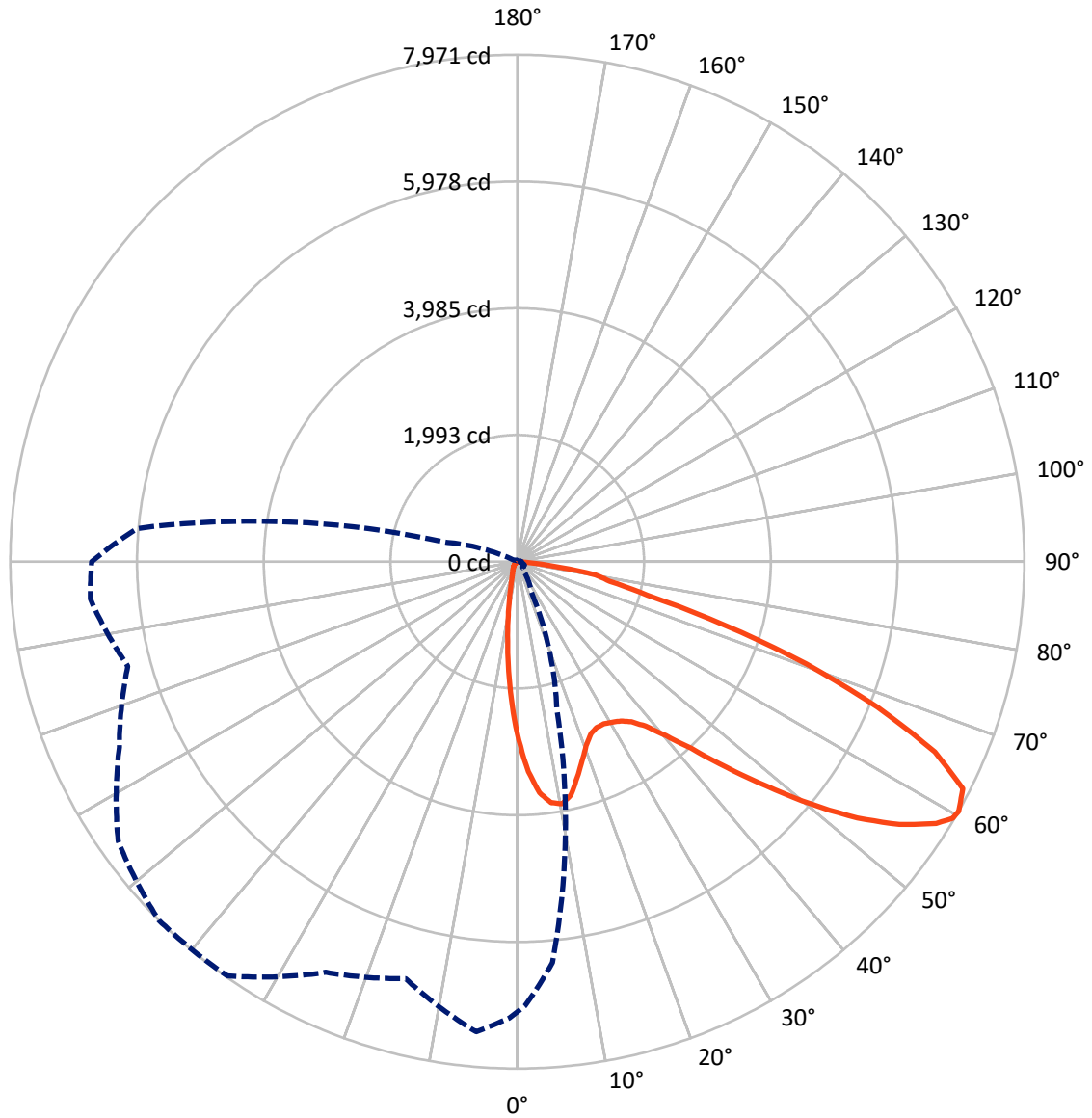
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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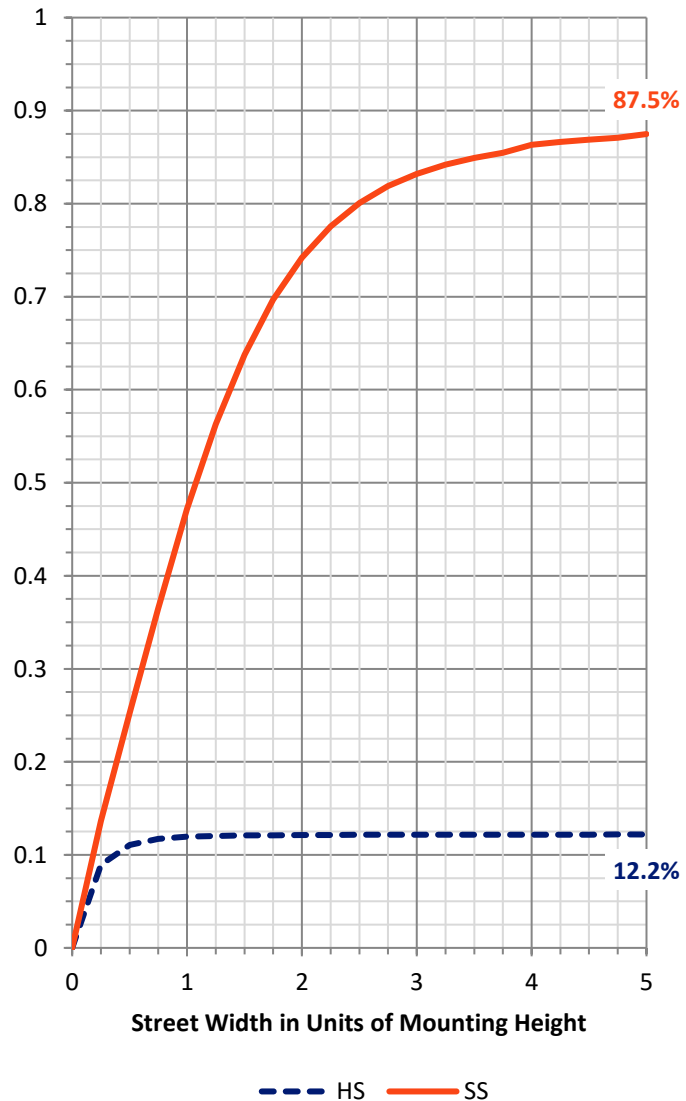
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1047.3	0.0	1047.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7443.7	0.0	7443.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	8491.0	0.0	8491.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.7	2.5
10°-20°	414.5	4.9
20°-30°	607.8	7.2
30°-40°	903.9	10.6
40°-50°	1315.5	15.5
50°-60°	1897.1	22.3
60°-70°	2086.6	24.6
70°-80°	934.6	11.0
80°-90°	122.1	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°	8491.0	100.0
0°-180°	8491.0	100.0



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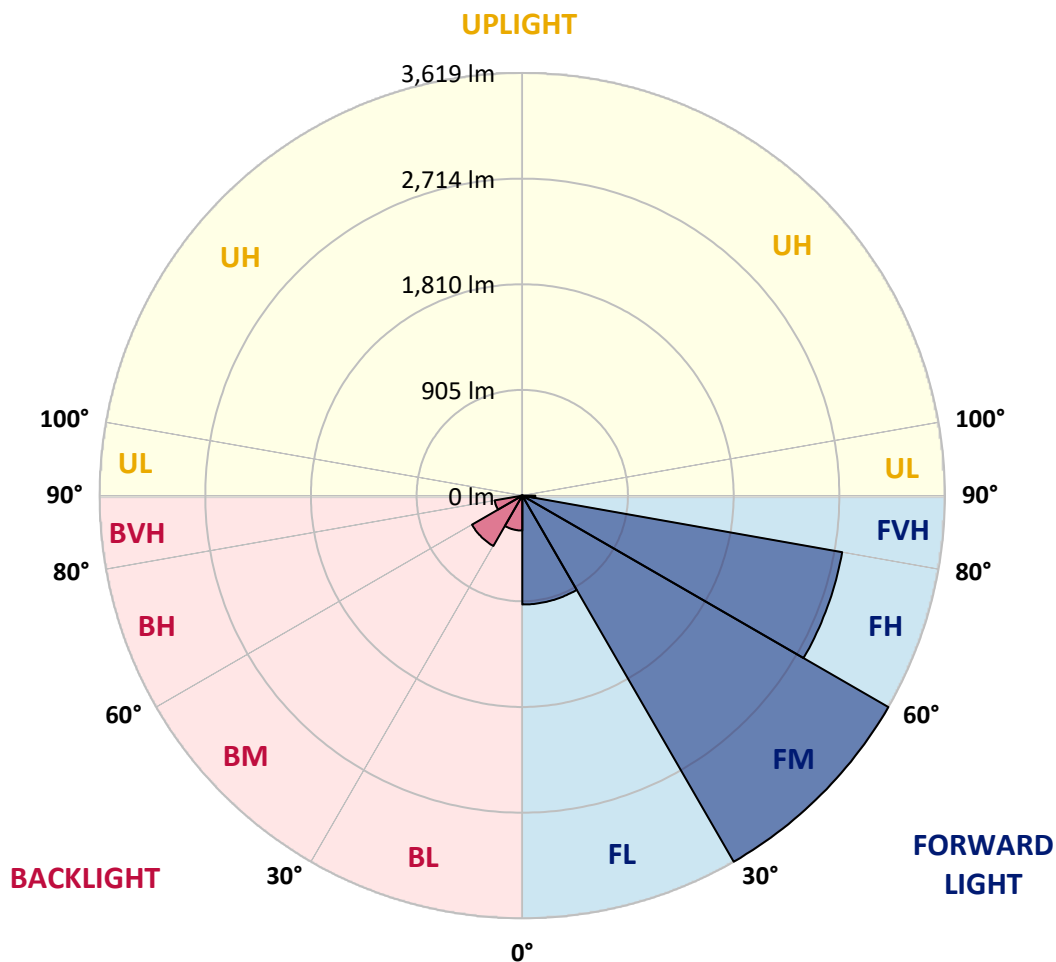
CATALOG NUMBER: GALN-SA2C-727-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	931.9	11.0			
FM	(30°-60°)	3619.1	42.6			
FH	(60°-80°)	2781.1	32.8			G2/5000
FVH	(80°-90°)	111.7	1.3			G2/225
BL	(0°-30°)	299.2	3.5	B1/500		
BM	(30°-60°)	497.4	5.9	B1/1000		
BH	(60°-80°)	240.2	2.8	B1/500		G1/500
BVH	(80°-90°)	10.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4
2.5°	3085.2	3071.7	3040.7	2946.5	2864.5	2757.3	2648.9	2563.7	2511.4	2415.3	2371.4
5°	2989.1	2995.5	2905.8	2712.2	2496.6	2349.4	2188.7	2060.9	1920.2	1831.1	1737.5
7.5°	2738.0	2725.1	2627.6	2357.8	2095.8	1882.8	1679.4	1514.2	1410.3	1327.0	1257.3
10°	2523.0	2513.4	2388.8	2041.5	1760.1	1600.7	1463.2	1318.6	1207.0	1085.0	987.5
12.5°	2388.1	2366.2	2222.9	1860.2	1631.0	1482.6	1332.8	1182.5	1028.2	904.9	786.8
15°	2343.0	2311.3	2151.9	1797.6	1548.4	1360.0	1172.1	999.1	821.7	685.5	596.4
17.5°	2424.9	2372.7	2202.9	1786.6	1449.7	1199.9	968.8	743.6	559.0	455.0	400.2
20°	2612.8	2552.7	2332.0	1775.6	1339.9	1020.4	736.5	525.4	386.6	329.8	299.5
22.5°	2891.6	2809.0	2523.0	1793.0	1238.6	845.5	531.8	371.1	307.2	271.7	250.4
25°	3226.6	3157.5	2765.1	1855.0	1158.6	708.1	411.1	303.4	258.8	236.9	220.7
27.5°	3593.8	3483.5	3078.1	1929.2	1085.6	601.6	360.8	271.1	230.4	210.4	202.0
30°	3855.2	3769.4	3340.2	1980.9	994.6	521.5	329.8	267.2	231.1	207.2	191.7
32.5°	4113.4	4003.7	3559.6	2004.8	928.2	466.0	285.3	233.0	202.7	190.4	174.9
35°	4389.7	4274.8	3778.4	1991.8	878.5	429.2	258.8	207.8	173.6	153.0	137.5
37.5°	4669.2	4547.8	3996.0	1945.4	847.5	414.4	238.2	197.5	163.9	142.6	125.9
40°	5000.9	4838.9	4199.9	1907.3	815.2	406.6	224.6	191.1	156.8	134.3	117.5
42.5°	5272.0	5117.7	4392.9	1887.3	793.3	388.6	224.6	185.9	152.3	127.2	109.7
45°	5528.9	5368.8	4601.4	1903.4	784.2	366.0	227.2	185.2	149.1	122.0	104.6
47.5°	5743.8	5605.0	4815.7	1964.1	772.6	341.4	213.6	194.3	147.2	117.5	99.4
50°	5997.5	5863.2	5099.0	2086.7	751.9	316.9	196.9	209.1	146.5	113.6	94.9
52.5°	6355.1	6209.8	5490.2	2226.1	719.0	279.5	181.4	207.2	143.9	107.1	90.4
55°	6792.0	6674.6	5943.3	2393.3	673.8	237.5	156.8	184.0	136.2	96.2	82.6
57.5°	7072.1	6972.1	6282.8	2465.6	604.8	194.3	138.1	154.3	124.6	85.8	73.6
59°	7105.1	7014.7	6353.8	2441.7	559.6	177.5	129.1	132.3	121.3	80.0	68.4
60°	7077.3	6983.7	6325.4	2395.2	517.6	165.9	121.3	117.5	122.0	76.8	64.5
62.5°	6899.2	6739.1	6049.8	2159.7	452.5	152.3	107.8	96.2	107.8	69.1	57.4
65°	6555.1	6315.0	5504.4	1827.9	426.6	144.6	91.7	80.7	82.0	60.7	49.7
67.5°	5954.2	5651.5	4778.2	1485.2	415.7	145.2	77.5	72.3	63.3	51.6	43.9
70°	5004.1	4702.1	3833.9	1221.8	410.5	145.2	65.8	62.0	52.9	43.2	38.1
72.5°	3546.1	3220.8	2586.3	959.8	369.8	144.6	56.2	56.2	43.2	36.1	31.0
75°	2003.5	2006.0	1625.9	679.0	307.2	119.4	45.2	44.5	31.6	27.8	23.2
77.5°	1167.6	1147.0	1096.0	291.7	142.6	54.2	31.6	27.1	21.9	20.0	16.8
80°	600.3	493.8	480.9	105.9	51.0	34.2	21.9	15.5	14.2	12.9	11.6
82.5°	177.5	178.1	158.8	42.6	28.4	22.6	11.0	8.4	7.7	7.1	7.1
85°	12.3	7.7	9.0	12.9	17.4	9.0	0.6	1.9	1.9	2.6	3.2
87.5°	1.3	0.6	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°	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4
2.5°	2323.0	2351.4	2298.4	2299.7	2255.8	2270.0	2218.4	2235.2	2204.8	2228.1	2296.5
5°	1747.9	1754.3	1711.7	1698.2	1704.6	1731.1	1741.4	1694.3	1714.3	1674.9	1672.3
7.5°	1231.5	1239.3	1214.7	1211.5	1258.0	1247.0	1267.0	1218.6	1172.8	1192.8	1156.0
10°	956.6	924.3	873.9	859.7	850.7	856.5	856.5	812.6	806.2	788.7	815.2
12.5°	755.2	715.8	668.0	603.5	587.4	586.1	562.2	523.5	511.2	496.3	518.3
15°	548.6	532.5	492.5	456.3	419.5	412.4	373.7	342.1	300.1	294.3	292.4
17.5°	386.0	362.1	361.4	340.8	319.5	305.3	269.2	233.0	216.9	214.9	214.9
20°	289.2	280.8	267.2	264.6	258.2	242.0	209.8	190.4	182.7	183.3	185.9
22.5°	243.3	237.5	225.3	219.5	216.9	202.7	178.8	165.9	162.0	162.0	162.7
25°	217.5	212.4	198.8	189.8	186.5	176.2	157.5	147.8	144.6	144.6	144.6
27.5°	198.2	191.7	177.5	169.8	163.9	152.3	140.7	131.0	127.8	127.8	128.4
30°	184.6	177.5	164.6	154.3	145.2	134.9	125.2	116.8	113.0	112.3	113.0
32.5°	166.5	160.1	147.2	140.7	130.4	118.1	110.4	102.6	98.8	99.4	98.8
35°	129.7	127.8	118.8	120.7	114.9	104.6	97.5	89.1	84.6	83.9	85.2
37.5°	118.1	110.4	100.0	100.7	98.8	94.9	83.3	74.2	71.0	71.0	71.6
40°	109.1	101.3	89.7	83.9	84.6	84.6	72.3	62.6	59.4	58.7	60.0
42.5°	101.3	93.6	80.7	71.0	68.4	71.6	61.3	51.6	48.4	47.1	48.4
45°	96.2	87.8	72.9	62.0	54.2	58.1	50.3	42.6	38.7	38.7	38.1
47.5°	91.0	83.3	67.1	53.6	45.2	43.2	41.3	34.2	30.3	29.7	30.3
50°	86.5	78.7	60.7	46.5	38.1	33.6	33.6	27.1	24.5	23.2	23.9
52.5°	82.0	73.6	54.9	41.3	32.9	27.1	23.9	21.9	20.0	19.4	20.0
55°	75.5	67.1	49.1	35.5	28.4	22.6	18.7	18.1	16.8	15.5	16.8
57.5°	67.8	60.0	43.2	30.3	22.6	17.4	15.5	14.8	13.6	12.9	12.9
59°	63.3	56.2	40.0	26.5	20.0	15.5	14.2	13.6	12.3	11.0	11.6
60°	60.7	54.9	38.1	24.5	18.1	14.2	12.9	12.3	11.0	10.3	11.0
62.5°	53.6	49.1	33.6	20.0	14.2	10.3	9.0	9.7	9.0	8.4	9.0
65°	47.1	43.2	28.4	15.5	11.0	7.1	6.5	8.4	7.7	7.1	7.7
67.5°	42.0	37.4	23.9	11.6	7.7	3.9	4.5	7.1	7.1	6.5	7.1
70°	36.1	32.3	19.4	8.4	3.9	1.9	3.2	5.2	6.5	5.8	6.5
72.5°	29.7	25.2	14.8	5.8	1.9	0.0	1.9	4.5	6.5	5.8	6.5
75°	23.2	18.7	11.0	3.2	0.0	0.0	0.6	3.9	6.5	5.8	6.5
77.5°	16.8	13.6	6.5	0.6	0.0	0.0	0.6	3.9	6.5	5.8	6.5
80°	11.0	9.7	2.6	0.0	0.0	0.0	0.6	3.9	6.5	6.5	7.1
82.5°	7.1	5.2	0.0	0.0	0.0	0.0	1.3	5.2	7.1	7.7	7.7
85°	3.2	0.0	0.0	0.0	0.0	0.0	2.6	6.5	8.4	8.4	8.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	4.5	7.7	9.7	9.7	9.7
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°	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4
2.5°	2308.1	2348.8	2406.2	2494.6	2566.3	2679.2	2765.7	2883.9	3003.3	3039.4	3095.6
5°	1698.8	1751.1	1881.5	2000.2	2075.1	2313.9	2465.0	2703.1	2916.8	3019.4	3131.1
7.5°	1179.9	1241.8	1341.2	1507.1	1664.6	1858.9	2102.9	2375.2	2688.3	2834.8	2992.3
10°	828.1	905.6	1045.6	1181.8	1380.0	1564.6	1805.3	2106.1	2451.4	2624.4	2821.9
12.5°	522.8	591.9	777.1	930.1	1177.3	1391.6	1613.6	1886.0	2286.2	2463.7	2670.9
15°	298.8	356.9	443.4	639.6	914.0	1197.3	1474.2	1790.5	2201.6	2420.4	2644.4
17.5°	222.7	238.2	276.9	387.9	637.7	968.8	1345.8	1761.4	2259.1	2515.9	2771.5
20°	187.2	197.5	215.6	259.5	406.6	746.1	1220.5	1766.6	2444.9	2767.7	3010.4
22.5°	167.8	174.3	189.1	217.5	277.5	543.5	1074.0	1796.9	2670.2	3076.8	3357.0
25°	147.2	155.6	168.5	193.0	231.1	376.9	929.4	1864.7	2985.8	3469.3	3732.6
27.5°	131.0	138.8	151.7	174.3	202.7	287.9	761.0	1922.8	3318.9	3864.3	4079.9
30°	114.9	122.6	135.5	153.6	179.4	233.0	579.6	1957.0	3642.2	4160.5	4326.4
32.5°	101.3	107.8	120.1	136.2	157.5	197.5	457.0	1921.5	3889.5	4429.7	4540.7
35°	87.8	95.5	105.9	120.7	139.4	168.5	380.2	1798.9	4101.8	4706.6	4746.6
37.5°	73.6	82.6	93.6	107.1	122.0	154.9	305.3	1663.3	4329.0	5051.9	4986.1
40°	62.0	70.4	80.7	95.5	109.1	142.0	234.9	1518.7	4574.3	5375.9	5247.5
42.5°	50.3	59.4	71.6	85.2	107.8	123.9	182.0	1369.0	4794.4	5658.0	5483.7
45°	40.0	47.8	60.7	78.1	107.1	106.5	140.7	1221.2	4960.2	5859.4	5659.9
47.5°	31.6	38.1	51.0	76.2	98.8	90.4	113.0	1129.5	5134.5	6040.7	5794.8
50°	25.2	31.6	43.9	79.4	86.5	77.5	94.9	1144.4	5303.0	6133.0	5850.3
52.5°	21.3	27.8	38.1	62.6	66.5	67.8	83.3	1212.8	5520.5	6231.8	5960.7
55°	18.7	24.5	32.3	43.9	51.6	60.7	76.2	1262.5	5811.6	6443.5	6204.0
57.5°	14.8	21.3	29.0	37.4	42.6	52.9	70.4	1266.4	6074.9	6715.2	6527.4
59°	13.6	19.4	27.1	35.5	38.1	47.8	66.5	1233.4	6084.6	6755.9	6675.8
60°	12.3	18.7	25.8	32.9	36.1	45.2	63.3	1195.4	5996.8	6691.3	6737.2
62.5°	10.3	16.1	22.6	26.5	31.0	37.4	54.9	1057.2	5571.5	6398.9	6623.6
65°	9.0	14.2	19.4	21.9	25.8	32.3	48.4	846.2	5101.6	6002.6	6298.3
67.5°	8.4	12.9	16.8	18.7	22.6	29.7	43.2	597.7	4492.9	5499.8	5809.7
70°	7.7	12.3	14.8	17.4	20.0	25.2	36.8	348.5	3460.9	4618.2	4945.4
72.5°	7.7	11.6	12.9	14.8	17.4	22.6	34.2	188.5	2366.2	3522.8	3945.6
75°	7.7	11.0	11.6	12.9	15.5	20.7	30.3	98.8	1529.7	2447.5	3020.7
77.5°	7.7	10.3	11.6	12.3	14.8	18.1	26.5	62.0	1019.2	1714.3	2041.5
80°	8.4	10.3	11.0	12.3	14.2	16.8	21.9	41.3	599.0	1031.4	1242.5
82.5°	9.0	10.3	11.6	12.9	14.8	16.1	19.4	25.8	276.3	682.2	772.0
85°	9.7	11.0	12.3	13.6	15.5	16.1	18.1	18.7	45.2	307.9	416.3
87.5°	10.3	11.6	12.9	14.2	16.8	16.8	16.8	16.8	15.5	32.9	83.9
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: P451596

CATALOG NUMBER: GALN-SA2C-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4	2806.4
2.5°	3166.6	3239.5	3290.5	3303.4	3266.6	3249.8	3203.3	3131.1	3087.2	3085.2
5°	3337.0	3508.0	3626.8	3646.8	3575.8	3455.7	3313.1	3129.1	3021.3	2989.1
7.5°	3307.9	3607.4	3798.4	3826.2	3706.8	3477.7	3201.4	2905.2	2787.7	2738.0
10°	3188.5	3553.8	3826.8	3870.7	3711.3	3388.6	3037.5	2707.0	2561.1	2523.0
12.5°	3086.5	3455.7	3698.4	3759.1	3638.4	3316.3	2939.4	2579.8	2423.6	2388.1
15°	3042.0	3339.5	3488.0	3519.0	3499.0	3271.1	2929.0	2560.5	2381.7	2343.0
17.5°	3086.5	3240.8	3259.5	3291.1	3335.7	3266.6	3028.4	2665.7	2472.7	2424.9
20°	3203.3	3154.9	3077.5	3091.0	3193.0	3285.3	3205.3	2898.7	2663.8	2612.8
22.5°	3402.1	3133.6	2958.1	2946.5	3075.5	3347.9	3464.8	3214.3	2941.9	2891.6
25°	3646.1	3187.2	2914.2	2889.0	3029.7	3439.6	3746.8	3600.9	3303.4	3226.6
27.5°	3912.0	3298.2	2914.2	2889.7	3025.8	3520.9	3988.2	3943.0	3677.7	3593.8
30°	4057.9	3389.9	2956.1	2928.4	3073.6	3568.0	4117.3	4247.0	3959.2	3855.2
32.5°	4188.3	3517.0	3038.1	2985.8	3173.7	3637.7	4232.8	4505.2	4183.1	4113.4
35°	4308.3	3653.2	3151.1	3090.4	3305.3	3733.3	4360.6	4776.3	4494.9	4389.7
37.5°	4440.7	3811.4	3327.3	3275.6	3525.4	3919.1	4512.3	5132.6	4801.5	4669.2
40°	4584.6	3994.7	3617.1	3595.1	3875.3	4129.6	4704.0	5512.7	5151.3	5000.9
42.5°	4731.1	4205.7	3972.1	4008.2	4271.6	4424.5	4900.9	5805.1	5437.9	5272.0
45°	4864.1	4475.5	4433.6	4612.4	4733.7	4712.4	5046.7	6011.0	5687.7	5528.9
47.5°	5031.9	4868.6	4991.9	5267.5	5270.7	5025.4	5157.1	6179.5	5902.6	5743.8
50°	5219.7	5332.7	5712.8	5993.6	5918.1	5333.3	5286.2	6378.9	6124.6	5997.5
52.5°	5437.2	5852.3	6378.9	6690.7	6514.5	5668.9	5501.1	6594.5	6477.0	6355.1
55°	5690.2	6206.6	7043.1	7291.6	7114.1	6085.9	5827.7	6886.9	6875.3	6792.0
57.5°	5976.2	6581.0	7427.8	7764.1	7605.9	6575.2	6284.1	7162.5	7118.6	7072.1
59°	6202.1	6773.3	7597.5	7946.1	7850.6	6917.9	6590.6	7334.2	7174.8	7105.1
60°	6338.9	6903.7	7660.1	7970.6	7948.7	7121.8	6784.9	7418.1	7174.1	7077.3
62.5°	6744.9	7131.5	7636.3	7861.5	7947.4	7513.0	7354.9	7510.4	7041.2	6899.2
65°	6889.5	7056.0	7240.6	7212.9	7286.4	7493.0	7718.9	7409.1	6757.2	6555.1
67.5°	6608.1	6227.9	6293.1	6107.9	6071.7	6661.6	7571.1	6913.4	6201.4	5954.2
70°	5570.2	4771.1	4738.2	4823.4	4589.8	5393.3	6798.5	5958.8	5284.3	5004.1
72.5°	4384.5	3371.8	3094.3	3408.0	3400.9	4114.7	5647.6	4228.3	3570.0	3546.1
75°	3448.0	2347.5	2060.3	2111.3	2209.4	2978.7	4498.1	2685.1	2198.4	2003.5
77.5°	2314.6	1663.3	1551.7	1489.0	1594.9	1912.5	2845.8	1456.1	1232.8	1167.6
80°	1334.1	1208.3	1372.2	1245.7	1302.5	1205.0	1415.5	668.0	554.4	600.3
82.5°	868.1	688.0	733.2	544.8	744.8	751.3	454.4	197.5	167.2	177.5
85°	542.8	322.7	181.4	129.1	256.9	472.5	142.0	12.3	14.2	12.3
87.5°	140.7	53.6	22.6	33.6	41.3	36.8	32.9	1.9	0.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)