

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: P451594

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451594
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-SA2C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 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 III - Short
BUG Rating: B1 - U0 - G2

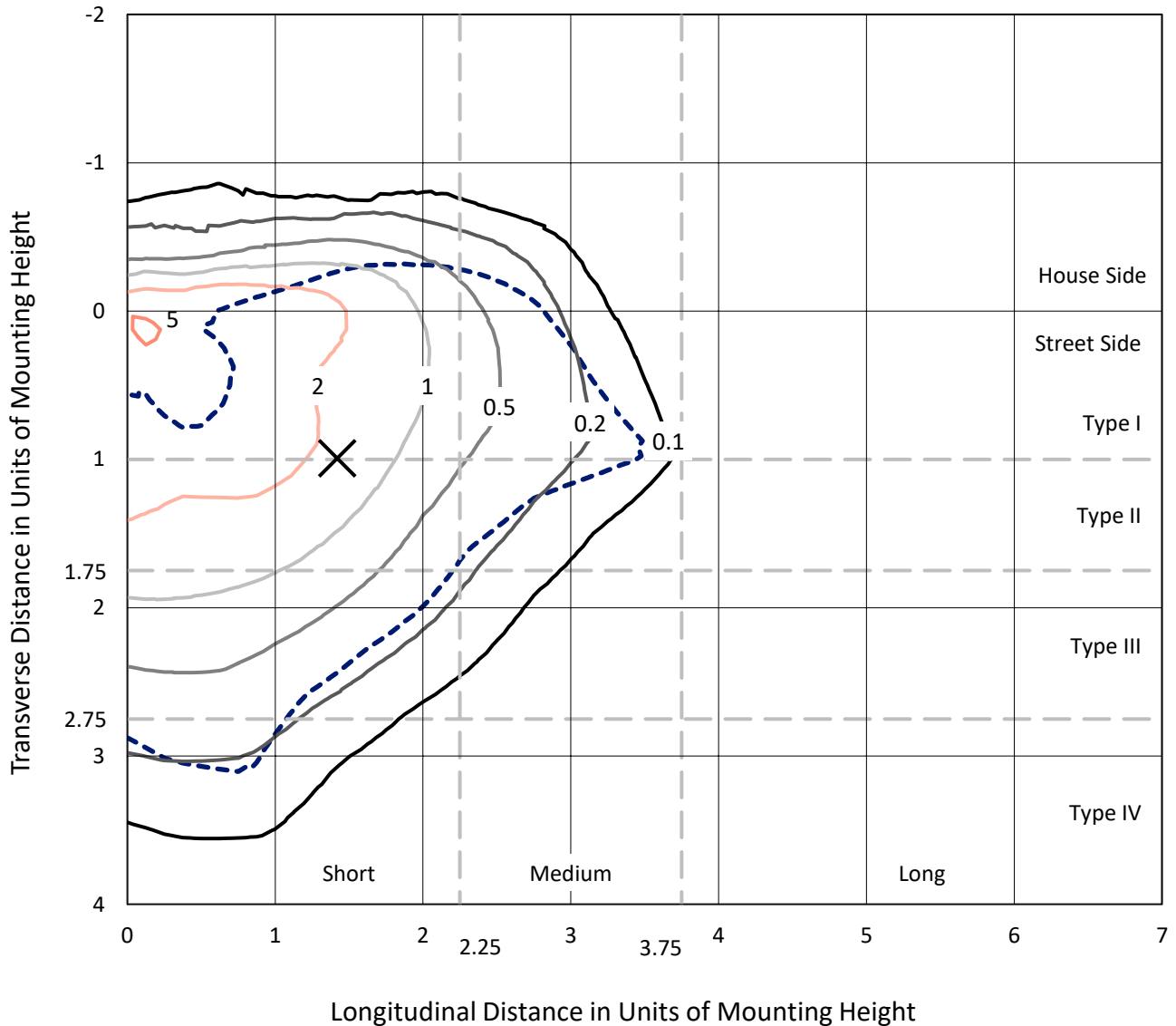
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451594
 CATALOG NUMBER: GALN-SA2C-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

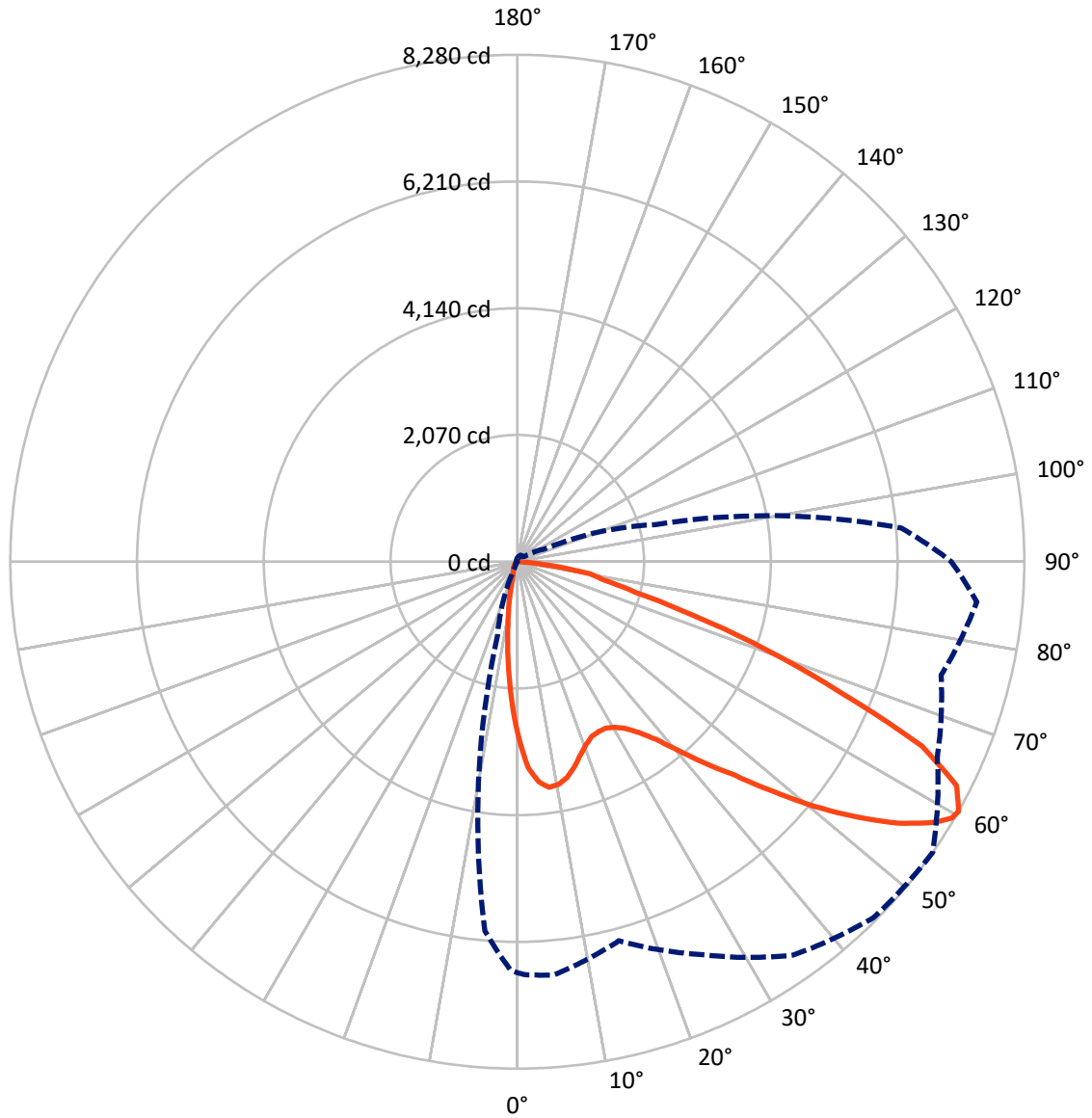
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P451594
CATALOG NUMBER: GALN-SA2C-727-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451594
 CATALOG NUMBER: GALN-SA2C-727-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.1	0.0	1260.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	7230.9	0.0	7230.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	8491.0	0.0	8491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	2.5
10°-20°	419.3	4.9
20°-30°	620.6	7.3
30°-40°	925.0	10.9
40°-50°	1354.7	16.0
50°-60°	1955.8	23.0
60°-70°	2057.4	24.2
70°-80°	846.3	10.0
80°-90°	99.1	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°	8491.0	100.0
0°-180°	8491.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451594

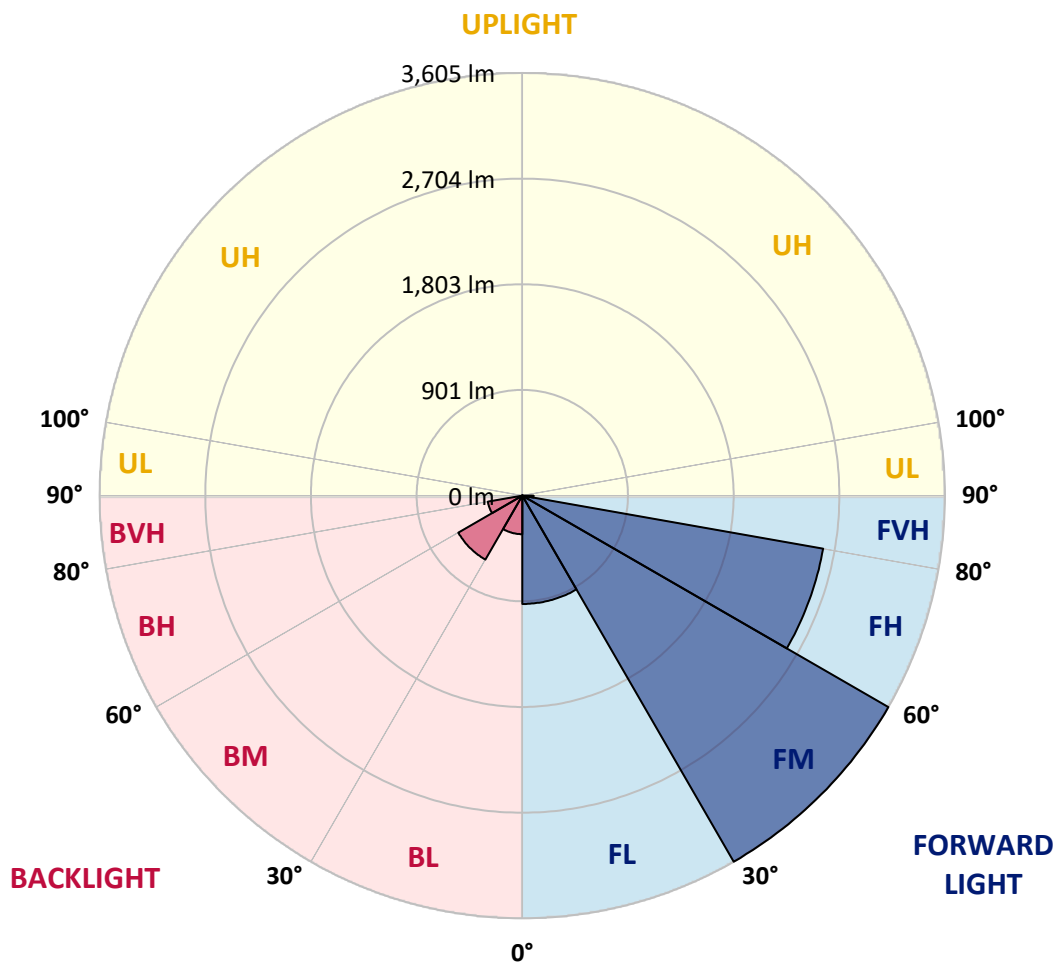
CATALOG NUMBER: GALN-SA2C-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.9	10.9			
FM	(30°-60°)	3605.3	42.5			
FH	(60°-80°)	2605.4	30.7			G2/5000
FVH	(80°-90°)	96.2	1.1			G1/100
BL	(0°-30°)	328.8	3.9	B1/500		
BM	(30°-60°)	630.2	7.4	B1/1000		
BH	(60°-80°)	298.3	3.5	B1/500		G1/500
BVH	(80°-90°)	2.9	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-G2

Type III Short





REPORT NUMBER: P451594

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

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0
2.5°	3141.0	3135.8	3182.2	3258.0	3334.5	3374.4	3366.5	3363.2	3299.8	3253.4	3156.1
5°	3134.5	3161.3	3244.3	3449.5	3605.1	3680.2	3702.4	3609.0	3485.5	3306.4	3085.5
7.5°	2946.9	2980.3	3115.5	3436.4	3712.9	3876.3	3870.4	3720.7	3465.9	3188.7	2873.7
10°	2714.3	2753.5	2912.3	3301.8	3660.6	3876.3	3888.1	3698.5	3381.5	3026.0	2694.6
12.5°	2550.2	2596.6	2772.4	3176.3	3526.0	3738.4	3752.1	3614.9	3318.1	2963.3	2597.3
15°	2494.7	2538.4	2716.9	3112.9	3382.8	3497.2	3494.0	3479.6	3293.3	2978.3	2602.5
17.5°	2590.1	2626.0	2827.3	3141.7	3248.9	3237.1	3254.1	3323.4	3298.5	3104.4	2767.2
20°	2836.5	2873.1	3089.4	3229.9	3146.3	3071.8	3079.6	3195.3	3346.9	3341.7	3024.7
22.5°	3175.7	3237.8	3433.8	3401.1	3132.5	2969.1	2952.8	3103.1	3429.3	3614.9	3372.4
25°	3605.1	3667.8	3820.7	3674.3	3199.9	2945.0	2929.9	3075.0	3529.2	3881.5	3763.9
27.5°	3965.8	4013.5	4165.8	3940.3	3299.2	2955.4	2930.6	3078.9	3610.3	4108.3	4093.9
30°	4254.7	4290.0	4379.5	4064.5	3384.8	3001.2	2972.4	3136.5	3646.2	4218.8	4361.2
32.5°	4487.4	4546.8	4574.9	4197.2	3507.7	3087.4	3038.4	3246.9	3733.8	4355.4	4641.6
35°	4753.4	4822.0	4786.1	4324.0	3669.8	3222.1	3161.9	3426.0	3866.5	4481.5	4967.1
37.5°	5090.6	5169.7	5029.2	4457.3	3841.0	3424.7	3396.6	3677.6	4067.8	4661.9	5316.1
40°	5439.6	5485.4	5265.1	4619.4	4051.4	3719.4	3746.2	4051.4	4331.2	4878.2	5687.3
42.5°	5712.2	5755.3	5507.6	4755.3	4266.5	4069.1	4180.9	4502.4	4633.1	5099.8	5964.4
45°	5920.6	5957.2	5675.6	4903.7	4556.6	4575.6	4786.7	4967.1	4935.7	5235.0	6178.1
47.5°	6082.7	6114.1	5805.0	5063.2	4991.3	5195.2	5518.0	5594.5	5249.4	5381.4	6371.6
50°	6149.4	6158.5	5845.5	5266.4	5484.7	5984.7	6321.3	6274.9	5608.9	5544.2	6577.5
52.5°	6236.3	6234.3	5961.2	5459.9	5948.7	6690.5	7026.5	6921.2	6015.4	5788.0	6808.8
55°	6464.4	6467.0	6208.9	5734.4	6344.1	7260.4	7619.9	7543.4	6444.1	6199.7	7078.8
57.5°	6741.5	6751.3	6561.1	6055.3	6721.9	7673.5	8063.0	8033.6	7023.9	6657.9	7333.6
59°	6777.5	6797.1	6727.8	6281.4	6946.1	7800.3	8214.6	8243.4	7334.3	6959.8	7471.5
60°	6712.1	6744.8	6776.2	6409.5	7077.4	7846.0	8223.8	8280.0	7567.6	7165.0	7534.3
62.5°	6427.2	6478.8	6636.3	6803.6	7241.5	7703.6	7931.7	8049.3	7856.5	7704.2	7540.2
65°	6054.0	6080.8	6308.2	6873.5	6923.2	7038.2	7108.8	7259.8	7509.5	7912.0	7270.2
67.5°	5442.2	5521.3	5799.7	6467.7	5984.0	5848.1	5830.4	5680.1	6328.5	7416.6	6604.9
70°	4495.9	4531.2	4874.3	5302.4	4516.1	4307.0	4390.6	4334.4	4905.7	6384.7	5316.1
72.5°	3399.8	3479.6	3814.9	4226.6	3073.1	2801.8	3032.5	3011.6	3684.8	5131.1	3652.1
75°	2418.8	2470.5	2897.9	3307.7	2152.2	1823.4	1906.4	1984.2	2572.4	4051.4	2158.1
77.5°	1662.0	1706.5	2027.4	2187.5	1569.9	1503.9	1375.8	1450.9	1685.5	2403.8	1174.5
80°	1002.6	1000.6	1211.7	1250.9	1093.4	1269.9	1065.3	1196.0	1018.9	1028.7	454.9
82.5°	650.9	644.4	741.1	807.8	608.5	639.8	429.4	618.9	664.0	286.9	143.8
85°	291.5	303.9	356.2	469.9	266.7	141.8	87.6	190.2	283.0	144.4	0.0
87.5°	30.1	23.5	62.7	114.4	36.6	3.9	13.1	6.5	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: P451594
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0
2.5°	3111.0	3073.1	2960.0	2854.1	2763.3	2652.2	2580.3	2467.2	2398.6	2377.7	2380.9
5°	2986.1	2877.0	2662.0	2490.1	2298.6	2189.4	2023.4	1864.0	1777.7	1745.7	1731.3
7.5°	2724.7	2607.7	2348.3	2078.3	1873.1	1681.6	1558.1	1417.6	1321.5	1242.4	1228.7
10°	2530.6	2377.0	2055.5	1765.3	1603.2	1459.4	1335.9	1195.4	1082.3	992.1	967.3
12.5°	2414.3	2242.4	1883.6	1640.4	1486.9	1339.2	1178.4	1015.6	900.0	802.6	757.5
15°	2393.4	2194.0	1835.2	1550.9	1361.4	1183.0	969.2	793.4	674.5	582.3	554.2
17.5°	2519.5	2280.9	1828.0	1457.4	1197.3	944.4	722.2	576.4	442.5	390.8	370.6
20°	2744.3	2434.5	1827.4	1349.0	1028.7	727.4	507.2	375.8	321.6	296.7	285.0
22.5°	3050.8	2643.7	1862.0	1255.5	853.6	536.6	362.1	299.3	268.0	247.7	243.1
25°	3425.3	2953.5	1947.0	1192.1	719.6	420.9	298.7	256.2	230.1	220.9	217.0
27.5°	3758.0	3250.2	2040.4	1126.7	623.5	372.5	277.1	234.6	213.7	206.5	200.6
30°	4044.9	3519.4	2085.5	1040.5	546.4	341.2	281.0	251.0	223.5	202.0	192.1
32.5°	4284.1	3726.0	2114.9	962.0	481.0	279.1	222.2	194.1	181.7	173.8	167.3
35°	4583.4	3949.5	2097.3	917.6	447.7	254.2	202.6	167.3	146.4	130.7	124.2
37.5°	4897.2	4173.0	2066.6	881.0	432.7	235.9	192.8	158.8	135.9	119.6	111.1
40°	5222.0	4380.2	2030.6	847.0	418.9	224.2	186.9	151.6	128.8	111.1	102.0
42.5°	5519.4	4582.1	2016.2	824.8	396.7	226.1	182.3	148.4	121.6	103.3	95.4
45°	5759.9	4773.6	2035.9	813.0	372.5	222.9	183.7	144.4	115.7	98.0	90.2
47.5°	6016.7	5044.2	2099.2	801.3	349.0	207.2	193.5	143.8	113.1	94.8	86.3
50°	6315.4	5390.6	2244.3	772.5	320.2	190.2	205.9	143.1	109.8	90.8	82.3
52.5°	6713.4	5784.0	2394.0	722.2	278.4	173.8	196.7	141.2	103.3	86.3	77.8
55°	7070.9	6198.4	2520.8	662.7	225.5	150.3	177.1	132.7	92.2	78.4	70.6
57.5°	7218.6	6432.4	2516.9	580.4	180.4	132.0	145.7	121.6	80.4	69.3	62.7
59°	7164.4	6403.0	2432.6	519.6	164.7	122.2	120.9	120.3	75.2	62.7	57.5
60°	7087.9	6295.8	2341.7	489.5	154.9	115.7	111.1	118.9	70.6	58.8	53.6
62.5°	6795.1	5851.4	2040.4	438.5	141.8	98.0	88.9	100.6	62.7	51.0	46.4
65°	6370.9	5168.4	1727.4	424.2	137.9	81.0	73.9	71.9	53.6	43.1	39.2
67.5°	5543.5	4373.7	1399.3	414.4	139.2	68.0	64.7	54.2	44.4	35.9	33.3
70°	4438.4	3410.3	1145.7	403.2	140.5	55.6	54.2	43.1	35.9	30.1	27.4
72.5°	2696.6	2021.5	901.9	350.3	136.6	44.4	48.4	32.7	26.1	21.6	20.3
75°	1667.2	1383.6	559.5	272.5	90.2	32.7	34.0	20.3	17.6	13.7	13.7
77.5°	966.0	873.8	200.0	98.0	39.9	19.6	15.0	10.5	9.8	5.9	5.9
80°	400.6	320.9	69.3	33.3	21.6	9.1	3.3	0.7	0.0	0.0	0.0
82.5°	117.0	103.9	19.0	15.0	6.5	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°	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0
2.5°	2325.4	2303.8	2294.0	2327.3	2296.6	2335.8	2305.8	2318.8	2357.4	2374.4	2418.2
5°	1740.4	1718.2	1707.8	1758.1	1755.5	1780.3	1777.7	1800.6	1820.2	1776.4	1821.5
7.5°	1212.4	1197.3	1222.2	1261.4	1303.2	1289.5	1289.5	1258.8	1269.2	1262.7	1260.7
10°	922.2	870.5	857.5	856.2	871.9	875.1	857.5	815.0	830.7	835.3	862.7
12.5°	725.5	685.6	624.8	597.4	590.2	596.1	537.9	500.6	518.3	507.8	534.6
15°	520.2	487.6	451.6	420.9	412.4	400.6	337.2	292.8	287.6	289.5	294.1
17.5°	371.2	349.0	349.0	316.3	298.7	263.4	231.4	211.8	209.8	211.8	215.0
20°	273.8	262.1	260.8	252.3	232.7	209.1	186.9	183.0	181.7	185.0	186.3
22.5°	235.9	223.5	213.1	212.4	194.1	174.5	164.0	158.8	159.5	160.8	164.0
25°	211.1	198.0	186.9	180.4	167.3	153.6	143.8	141.2	141.2	143.1	143.8
27.5°	193.5	177.1	167.3	158.2	146.4	134.6	126.1	124.2	122.9	124.2	127.4
30°	181.0	164.7	152.3	138.6	129.4	118.3	111.1	108.5	107.8	108.5	111.1
32.5°	154.9	145.1	135.3	122.9	111.8	104.6	96.7	92.2	92.2	93.5	96.1
35°	117.0	111.8	111.1	107.8	98.7	90.8	81.7	77.1	77.1	79.7	81.0
37.5°	103.3	93.5	92.2	90.8	86.9	76.5	68.0	64.0	63.4	65.4	68.0
40°	94.1	83.0	77.1	75.8	76.5	64.7	55.6	51.6	51.6	52.3	54.9
42.5°	86.9	73.9	63.4	62.1	64.7	54.2	45.1	41.2	41.2	41.2	44.4
45°	81.0	66.0	53.6	47.1	51.0	44.4	36.6	32.7	31.4	32.7	34.0
47.5°	77.1	60.1	47.1	37.9	37.9	35.3	29.4	24.8	23.5	24.2	26.1
50°	73.9	54.9	39.9	30.7	27.4	28.1	22.2	19.0	17.6	17.6	19.6
52.5°	68.6	49.7	34.6	26.1	20.9	19.0	16.3	13.7	13.1	13.7	15.0
55°	62.1	45.1	30.1	21.6	16.3	13.1	11.8	9.8	9.1	9.8	11.8
57.5°	54.9	37.9	24.2	17.0	11.1	8.5	7.8	6.5	5.2	5.9	7.2
59°	50.3	34.0	20.9	13.7	8.5	5.9	5.9	4.6	3.3	3.9	5.9
60°	48.4	31.4	17.6	11.8	7.2	4.6	4.6	3.3	2.0	2.6	4.6
62.5°	41.2	26.1	13.7	7.2	3.3	0.7	2.0	0.7	0.0	0.7	2.0
65°	34.6	20.9	9.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7
67.5°	28.8	15.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	22.9	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	15.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3.9	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: P451594
 CATALOG NUMBER: GALN-SA2C-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0	2875.0
2.5°	2420.8	2514.3	2571.8	2680.3	2791.4	2877.0	2984.2	3080.2	3120.1	3141.0
5°	1867.2	1997.3	2107.7	2273.1	2426.7	2613.6	2803.1	3026.7	3112.3	3134.5
7.5°	1310.4	1443.1	1558.8	1750.2	1969.2	2219.5	2503.2	2786.8	2911.6	2946.9
10°	946.4	1088.2	1229.4	1420.8	1625.4	1896.6	2192.1	2543.0	2686.8	2714.3
12.5°	597.4	749.6	979.0	1215.6	1432.0	1650.2	1959.4	2341.1	2499.9	2550.2
15°	346.4	460.1	633.3	941.8	1216.9	1505.8	1843.1	2265.3	2443.0	2494.7
17.5°	232.0	271.2	390.2	626.1	989.5	1372.5	1813.6	2327.3	2524.1	2590.1
20°	195.4	213.1	254.9	381.7	762.1	1253.5	1821.5	2496.0	2754.1	2836.5
22.5°	171.9	188.2	215.0	274.5	532.0	1105.8	1858.7	2737.1	3070.4	3175.7
25°	151.6	168.0	191.5	227.4	357.5	935.3	1940.4	3090.1	3489.4	3605.1
27.5°	134.6	149.7	169.9	200.6	275.2	745.1	2013.0	3433.8	3871.7	3965.8
30°	118.9	131.4	151.0	174.5	228.7	574.5	2049.6	3734.5	4150.1	4254.7
32.5°	103.3	115.0	134.0	152.9	188.2	437.9	2024.1	3955.4	4420.7	4487.4
35°	88.2	100.6	116.3	134.0	162.7	353.6	1896.6	4203.7	4701.1	4753.4
37.5°	75.8	86.3	102.6	116.3	147.1	283.0	1742.4	4427.2	5015.5	5090.6
40°	64.0	74.5	90.8	103.3	135.3	222.9	1603.2	4675.6	5346.8	5439.6
42.5°	52.3	64.7	79.1	99.3	116.3	169.9	1434.6	4876.9	5595.8	5712.2
45°	41.8	55.6	71.2	98.7	101.3	129.4	1271.8	5033.8	5816.1	5920.6
47.5°	33.3	47.1	68.6	92.2	83.0	102.6	1179.0	5197.8	5999.1	6082.7
50°	26.8	39.2	71.9	81.0	69.3	86.9	1176.4	5380.8	6093.8	6149.4
52.5°	21.6	32.0	60.8	62.1	58.8	76.5	1247.0	5586.7	6190.6	6236.3
55°	18.3	26.8	39.9	45.7	52.9	69.3	1299.9	5903.6	6421.3	6464.4
57.5°	14.4	22.9	30.7	36.6	47.1	63.4	1307.1	6148.1	6713.4	6741.5
59°	12.4	19.6	27.4	32.7	43.1	59.5	1277.7	6163.1	6732.4	6777.5
60°	10.5	17.6	24.2	30.7	39.9	56.2	1245.7	6054.0	6661.8	6712.1
62.5°	7.8	13.7	17.6	24.8	32.7	48.4	1094.1	5672.9	6391.9	6427.2
65°	5.2	9.8	13.1	18.3	25.5	41.8	891.5	5178.8	5974.9	6054.0
67.5°	3.3	7.2	10.5	13.7	20.9	35.3	635.3	4441.0	5391.3	5442.2
70°	2.0	4.6	7.8	11.1	16.3	28.1	377.1	3510.3	4485.4	4495.9
72.5°	1.3	3.3	5.2	7.8	13.1	25.5	183.0	2288.1	3275.0	3399.8
75°	0.7	2.0	3.3	5.9	10.5	20.9	87.6	1528.7	2382.9	2418.8
77.5°	0.0	0.7	2.0	3.9	7.8	16.3	51.0	1003.9	1624.8	1662.0
80°	0.0	0.0	1.3	3.3	5.9	10.5	30.7	592.1	984.3	1002.6
82.5°	0.0	0.0	0.7	2.6	3.9	7.8	15.7	260.1	644.4	650.9
85°	0.0	0.0	0.7	2.6	3.3	5.2	5.9	35.3	286.3	291.5
87.5°	0.0	0.0	0.7	3.3	3.3	3.3	3.3	2.0	24.2	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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