

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: P528859

Luminaire Tested: **GALN-SA4A-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528859
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-SA4A-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 8364 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

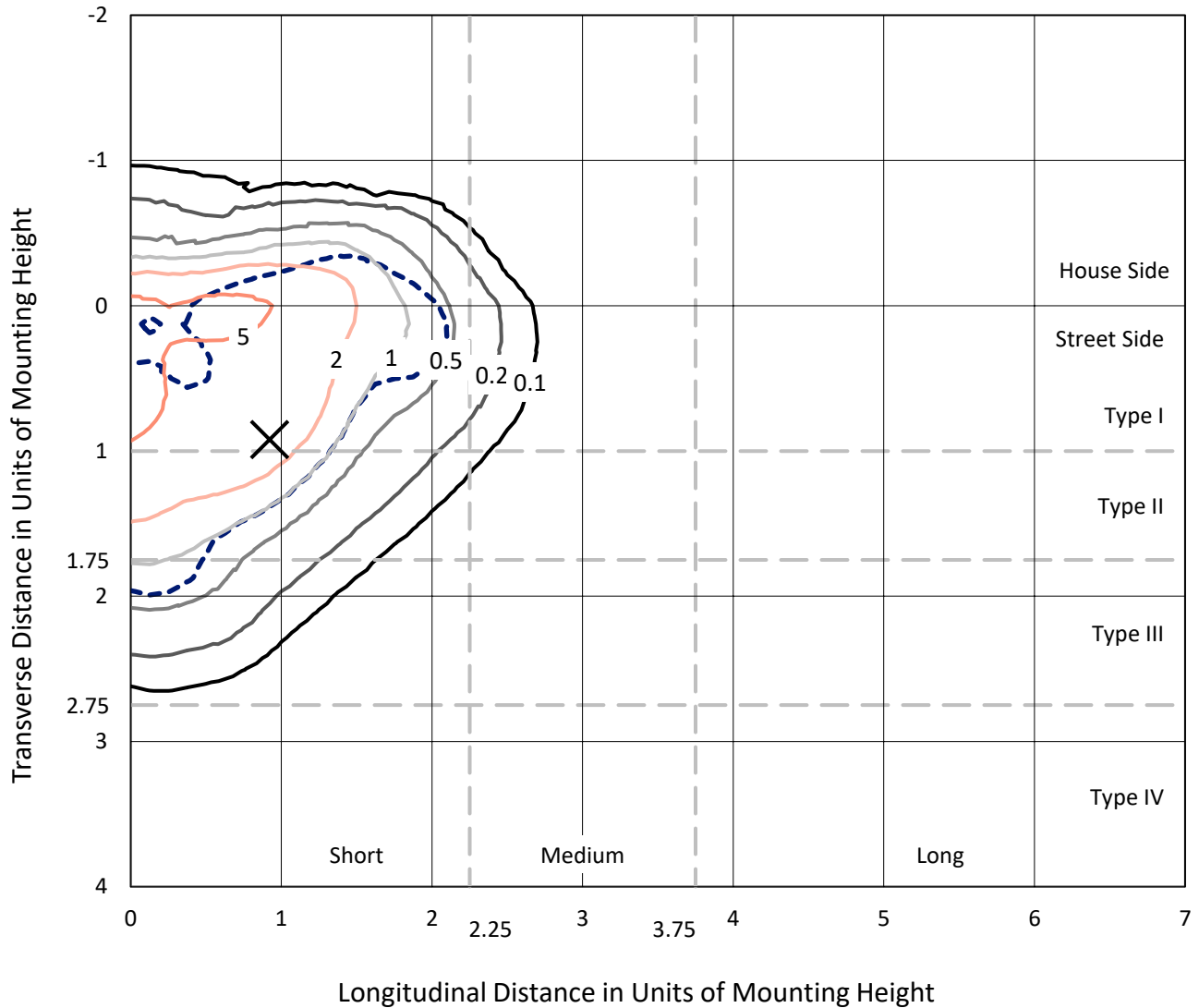
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

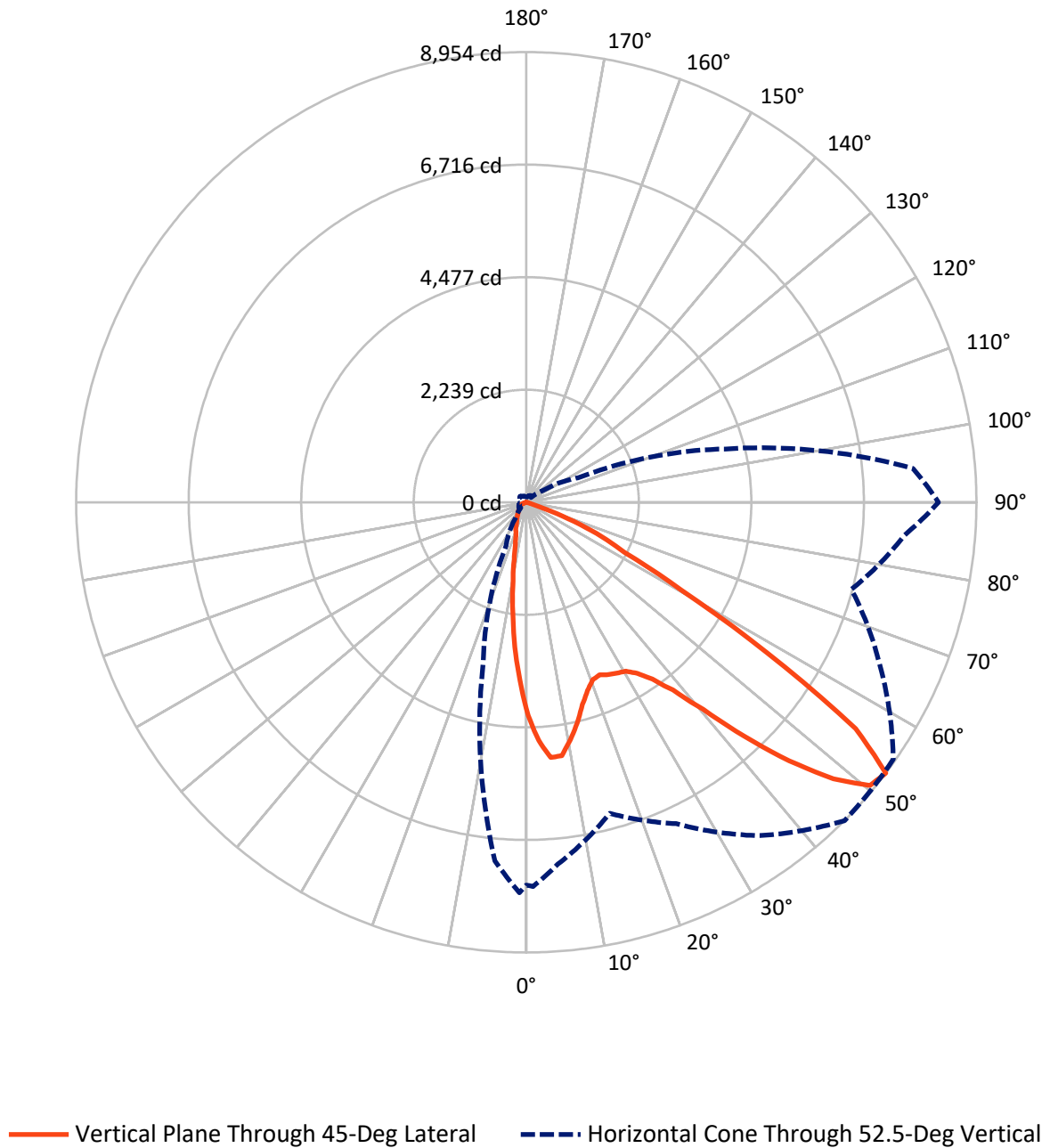
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1697.5	0.0	1697.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6666.5	0.0	6666.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	8364.0	0.0	8364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	3.7
10°-20°	610.2	7.3
20°-30°	928.6	11.1
30°-40°	1388.0	16.6
40°-50°	1976.6	23.6
50°-60°	2124.8	25.4
60°-70°	941.5	11.3
70°-80°	76.2	0.9
80°-90°	8.9	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°	8364.0	100.0
0°-180°	8364.0	100.0

Coefficient of Utilization

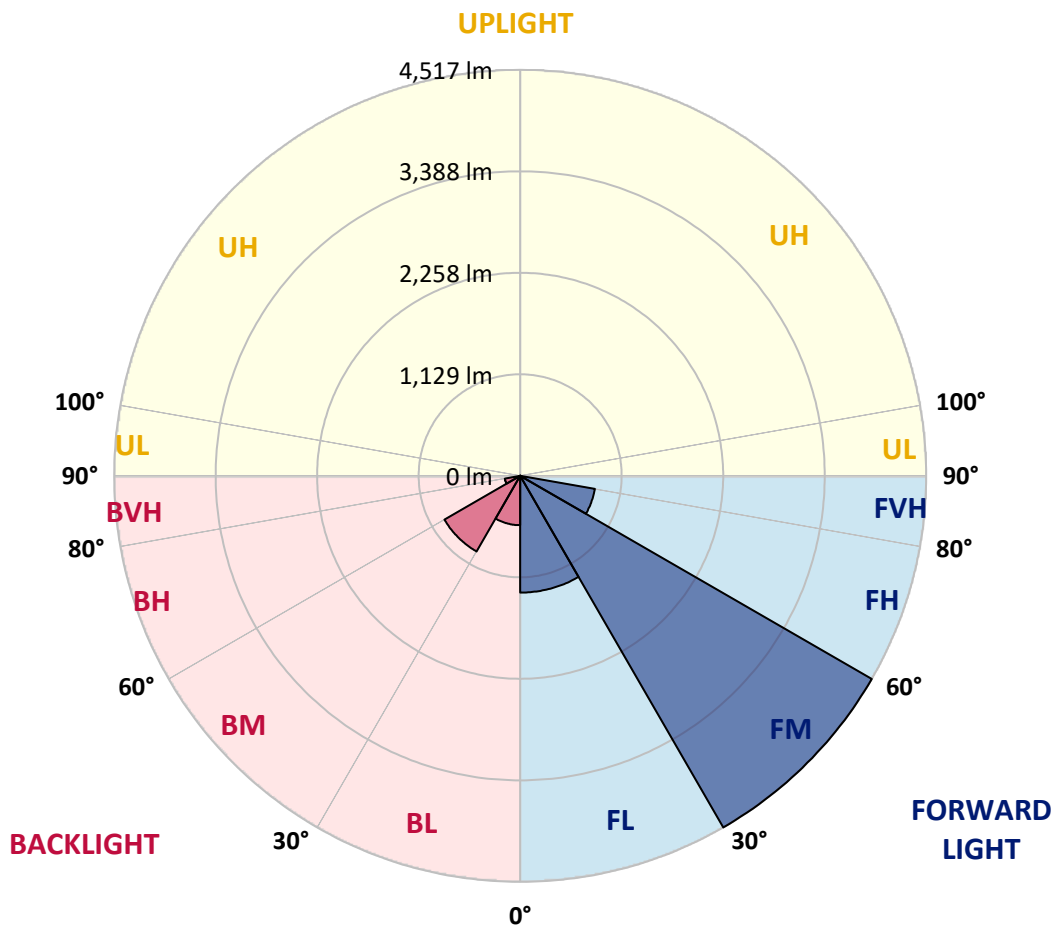


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1299.1	15.5			
FM (30°-60°)	4516.8	54.0			
FH (60°-80°)	844.0	10.1			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	549.0	6.6	B2/1000		
BM (30°-60°)	972.5	11.6	B1/1000		
BH (60°-80°)	173.7	2.1	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4487.7	4500.9	4573.2	4663.7	4711.4	4820.0	4744.3	4764.1	4722.9	4578.2	4464.7
5°	4351.2	4349.5	4441.6	4665.4	4877.6	5093.1	5099.7	4984.5	4782.2	4560.1	4242.6
7.5°	3939.9	4004.0	4099.5	4456.4	4849.6	5010.8	5088.1	4953.2	4642.3	4324.8	3981.0
10°	3629.0	3661.9	3823.1	4254.1	4542.0	4757.5	4805.2	4727.9	4489.3	4092.9	3707.9
12.5°	3449.7	3466.1	3655.3	4017.2	4321.5	4481.1	4504.1	4540.3	4369.3	3997.5	3535.2
15°	3451.3	3464.5	3719.5	4022.1	4142.2	4099.5	4175.1	4173.5	4247.5	3979.4	3680.0
17.5°	3699.7	3714.5	3944.8	4094.5	4041.9	3941.5	3936.6	4012.3	4168.6	4204.7	3898.8
20°	4127.4	4162.0	4331.4	4323.2	4027.1	3824.7	3768.8	3826.4	4189.9	4395.6	4339.6
22.5°	4703.2	4750.9	4869.3	4642.3	4094.5	3745.8	3727.7	3839.5	4331.4	4821.6	4839.7
25°	5371.1	5451.7	5509.3	5218.1	4334.7	3882.3	3796.8	3989.2	4522.2	5283.9	5476.4
27.5°	5813.6	5897.5	5884.3	5468.1	4495.9	3918.5	3846.1	4025.4	4688.4	5394.1	5808.7
30°	6159.1	6210.1	6302.2	5603.0	4657.1	4020.5	3897.1	4178.4	4742.7	5584.9	6210.1
32.5°	6562.1	6596.6	6603.2	5841.6	4905.5	4148.8	4055.0	4369.3	4982.9	5767.5	6565.4
35°	6968.4	7019.4	6912.5	6136.0	5058.5	4387.3	4318.3	4699.9	5175.3	5956.7	6956.9
37.5°	7409.3	7435.6	7188.9	6257.8	5277.3	4775.6	4737.7	5056.9	5509.3	6298.9	7391.2
40°	7779.4	7804.1	7483.3	6407.5	5507.6	5318.4	5415.5	5737.9	5963.3	6521.0	7608.4
42.5°	7985.1	8042.6	7582.0	6325.2	5969.9	5933.7	6364.7	6478.2	6489.7	6583.5	7802.5
45°	8041.0	8014.7	7419.2	6392.7	6374.6	6945.4	7336.9	7486.6	7012.8	6698.6	7851.8
47.5°	7782.7	7817.3	7179.0	6333.4	6905.9	7712.0	8218.7	8496.7	7402.7	6598.3	7730.1
50°	7573.8	7529.4	7101.7	6290.7	7049.0	8073.9	8855.3	8917.8	7761.3	6721.7	7596.8
52.5°	7614.9	7642.9	7225.1	6404.2	7052.3	8095.3	8954.0	8911.2	7772.9	6693.7	7549.1
55°	7702.1	7578.7	7172.4	6154.1	6580.2	7498.1	7947.2	7881.4	7174.1	6396.0	7432.3
57.5°	6646.0	6836.8	6595.0	5494.5	5400.7	5649.1	5640.9	5843.2	5351.3	5504.3	6766.1
60°	5394.1	5427.0	5517.5	4699.9	3737.6	3652.0	3533.6	3405.3	3601.0	4706.5	6154.1
62.5°	4744.3	4704.8	5027.3	4275.5	2638.7	2209.3	2189.6	2268.5	2778.5	4489.3	5772.5
65°	3448.0	3497.4	3731.0	3318.1	1980.6	1686.2	1656.6	1890.2	2248.8	3597.7	4405.4
67.5°	2105.7	2201.1	2222.5	2046.4	1344.0	1067.6	1024.9	1237.1	1623.7	2327.7	2582.7
70°	972.2	1087.4	1196.0	1117.0	778.1	439.2	414.6	519.8	819.2	1339.1	1370.3
72.5°	294.5	296.1	414.6	432.6	251.7	98.7	87.2	115.2	278.0	442.5	465.5
75°	21.4	23.0	55.9	64.2	47.7	24.7	26.3	31.3	59.2	98.7	74.0
77.5°	1.6	1.6	1.6	8.2	14.8	16.5	21.4	24.7	31.3	36.2	32.9
80°	1.6	0.0	1.6	6.6	11.5	16.5	19.7	23.0	24.7	28.0	24.7
82.5°	0.0	0.0	0.0	4.9	11.5	16.5	18.1	24.7	28.0	32.9	28.0
85°	0.0	0.0	0.0	4.9	11.5	18.1	16.5	8.2	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°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4484.4	4420.2	4273.8	4199.8	4025.4	4000.8	3829.7	3801.7	3744.1	3712.9	3637.2
5°	4102.8	4025.4	3786.9	3586.2	3352.6	3189.8	3064.7	2951.2	2885.4	2824.5	2852.5
7.5°	3791.8	3566.5	3301.6	2966.0	2696.2	2521.9	2331.0	2174.8	2082.6	2020.1	2034.9
10°	3466.1	3319.7	2951.2	2574.5	2248.8	2125.4	1975.7	1855.6	1725.7	1613.8	1561.2
12.5°	3364.1	3147.0	2684.7	2301.4	2054.7	1934.6	1763.5	1625.3	1459.2	1322.6	1274.9
15°	3382.2	3173.3	2612.3	2202.7	1911.5	1704.3	1500.3	1329.2	1146.6	1051.2	1001.8
17.5°	3676.7	3314.8	2660.0	2099.1	1712.5	1424.6	1172.9	955.8	819.2	720.5	699.1
20°	4038.6	3620.8	2762.0	2023.4	1549.6	1133.4	857.1	669.5	556.0	539.6	534.6
22.5°	4568.3	4120.8	2980.8	1972.4	1350.6	883.4	587.3	486.9	455.7	452.4	454.0
25°	5308.6	4747.6	3219.4	1929.6	1200.9	681.1	480.4	412.9	403.0	398.1	406.3
27.5°	5629.4	5126.0	3346.0	1837.5	1064.3	613.6	473.8	409.6	381.7	373.4	378.4
30°	6025.8	5377.7	3545.1	1679.6	863.7	505.0	442.5	445.8	432.6	391.5	378.4
32.5°	6552.2	5691.9	3645.4	1567.7	771.5	417.8	324.1	297.8	332.3	338.9	350.4
35°	6889.5	6011.0	3696.4	1501.9	723.8	357.0	274.7	250.0	241.8	243.5	250.0
37.5°	7516.2	6442.0	3760.6	1432.8	687.6	310.9	248.4	225.4	213.9	213.9	220.4
40°	7891.3	6784.2	3847.8	1395.0	651.4	282.9	225.4	205.6	195.8	195.8	199.1
42.5°	7985.1	6953.6	3818.2	1381.8	610.3	276.4	205.6	190.8	179.3	177.7	176.0
45°	8152.9	7211.9	3823.1	1367.0	567.5	251.7	194.1	177.7	161.2	159.6	157.9
47.5°	8337.1	7397.8	3833.0	1309.5	526.4	210.6	202.3	164.5	144.8	141.5	141.5
50°	8179.2	7545.8	3918.5	1251.9	473.8	171.1	199.1	154.6	128.3	123.4	125.0
52.5°	8198.9	7720.2	4099.5	1171.3	408.0	136.5	161.2	146.4	116.8	108.6	110.2
55°	7883.1	7536.0	4124.1	1085.7	319.1	105.3	123.4	128.3	98.7	95.4	95.4
57.5°	6785.8	6381.1	3638.8	880.1	210.6	87.2	88.8	111.9	85.5	82.3	83.9
60°	5807.0	5122.7	2928.2	580.7	131.6	69.1	64.2	113.5	75.7	74.0	79.0
62.5°	5293.8	4209.7	2220.8	360.3	90.5	52.6	44.4	92.1	65.8	65.8	72.4
65°	3824.7	2827.8	1291.4	189.2	64.2	41.1	32.9	52.6	54.3	55.9	59.2
67.5°	2368.9	1427.9	544.5	92.1	42.8	28.0	21.4	32.9	36.2	36.2	39.5
70°	1169.6	569.2	181.0	52.6	32.9	23.0	14.8	18.1	18.1	16.5	18.1
72.5°	361.9	171.1	46.1	32.9	23.0	14.8	8.2	6.6	3.3	0.0	1.6
75°	41.1	32.9	29.6	23.0	14.8	6.6	1.6	0.0	0.0	0.0	0.0
77.5°	24.7	28.0	28.0	23.0	14.8	4.9	0.0	0.0	0.0	0.0	0.0
80°	19.7	21.4	23.0	21.4	13.2	6.6	0.0	0.0	0.0	0.0	0.0
82.5°	24.7	28.0	31.3	28.0	18.1	8.2	3.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.9	1.6	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°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	3605.9	3569.8	3620.8	3545.1	3543.4	3545.1	3523.7	3504.0	3535.2	3619.1	3627.3
5°	2752.2	2829.5	2854.2	2934.8	2890.4	2824.5	2837.7	2793.3	2901.9	2949.6	2911.7
7.5°	2003.7	1998.7	2164.9	2174.8	2196.1	2197.8	2194.5	2107.3	2018.5	2038.2	2097.4
10°	1554.6	1470.7	1551.3	1543.1	1595.7	1580.9	1602.3	1508.5	1539.8	1539.8	1577.6
12.5°	1266.7	1177.9	1163.0	1141.7	1163.0	1171.3	1179.5	1161.4	1214.0	1238.7	1265.0
15°	967.3	917.9	904.8	863.7	870.2	893.3	913.0	921.2	904.8	942.6	945.9
17.5°	702.4	700.8	709.0	707.4	700.8	695.9	694.2	672.8	666.2	669.5	682.7
20°	533.0	546.2	574.1	602.1	616.9	598.8	574.1	537.9	523.1	526.4	528.1
22.5°	455.7	475.4	513.3	544.5	559.3	526.4	482.0	450.7	444.2	442.5	440.9
25°	412.9	435.9	463.9	473.8	472.1	452.4	419.5	406.3	403.0	399.7	384.9
27.5°	389.9	398.1	403.0	414.6	419.5	406.3	398.1	378.4	375.1	375.1	365.2
30°	376.7	371.8	378.4	370.1	376.7	366.8	368.5	368.5	360.3	363.6	363.6
32.5°	350.4	352.0	352.0	335.6	340.5	329.0	340.5	350.4	352.0	353.7	366.8
35°	256.6	286.2	301.0	301.0	306.0	297.8	296.1	284.6	269.8	255.0	248.4
37.5°	225.4	236.9	256.6	268.1	276.4	269.8	255.0	236.9	228.7	222.1	215.5
40°	200.7	210.6	223.7	236.9	253.3	245.1	222.1	213.9	204.0	204.0	197.4
42.5°	181.0	185.9	194.1	213.9	232.0	215.5	199.1	192.5	187.5	185.9	184.2
45°	162.9	164.5	172.7	189.2	210.6	194.1	177.7	169.4	171.1	172.7	171.1
47.5°	146.4	149.7	154.6	174.4	187.5	179.3	161.2	156.3	156.3	156.3	157.9
50°	126.7	134.9	144.8	161.2	171.1	166.1	151.3	144.8	141.5	141.5	143.1
52.5°	113.5	120.1	133.2	153.0	166.1	157.9	143.1	133.2	126.7	125.0	128.3
55°	98.7	110.2	131.6	146.4	164.5	156.3	139.8	128.3	116.8	115.2	115.2
57.5°	88.8	106.9	126.7	144.8	159.6	153.0	139.8	125.0	110.2	108.6	108.6
60°	83.9	103.6	123.4	139.8	159.6	149.7	138.2	121.7	105.3	105.3	103.6
62.5°	79.0	97.1	116.8	133.2	153.0	144.8	133.2	116.8	100.3	100.3	97.1
65°	65.8	83.9	97.1	111.9	133.2	125.0	113.5	102.0	88.8	85.5	87.2
67.5°	46.1	57.6	70.7	85.5	98.7	95.4	90.5	82.3	70.7	69.1	67.4
70°	23.0	31.3	42.8	57.6	69.1	65.8	62.5	55.9	49.4	47.7	47.7
72.5°	3.3	9.9	18.1	26.3	36.2	37.8	36.2	34.5	32.9	31.3	32.9
75°	0.0	0.0	0.0	6.6	14.8	18.1	21.4	24.7	24.7	21.4	26.3
77.5°	0.0	0.0	0.0	0.0	1.6	8.2	16.5	21.4	26.3	23.0	31.3
80°	0.0	0.0	0.0	0.0	1.6	9.9	16.5	23.0	26.3	23.0	32.9
82.5°	0.0	0.0	0.0	0.0	1.6	11.5	16.5	21.4	24.7	23.0	29.6
85°	0.0	0.0	0.0	0.0	4.9	9.9	6.6	3.3	1.6	1.6	4.9
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-SA4A-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	3673.4	3790.2	3915.2	3962.9	4111.0	4222.8	4298.5	4461.4	4486.0	4487.7
5°	2951.2	3010.4	3224.3	3324.6	3545.1	3716.2	3898.8	4162.0	4338.0	4351.2
7.5°	2097.4	2261.9	2352.4	2614.0	2885.4	3153.6	3425.0	3731.0	3935.0	3939.9
10°	1687.8	1794.7	1956.0	2151.7	2380.4	2653.5	3015.4	3370.7	3578.0	3629.0
12.5°	1358.8	1546.3	1730.6	1932.9	2107.3	2312.9	2702.8	3176.6	3347.7	3449.7
15°	1046.3	1217.3	1434.5	1671.4	1868.8	2143.5	2587.7	3128.9	3416.8	3451.3
17.5°	771.5	924.5	1125.2	1348.9	1645.0	2034.9	2607.4	3370.7	3642.1	3699.7
20°	554.4	643.2	801.1	1061.1	1437.8	1908.3	2627.1	3615.8	4028.7	4127.4
22.5°	439.2	475.4	579.1	809.4	1205.8	1775.0	2767.0	4084.7	4560.1	4703.2
25°	381.7	401.4	450.7	638.3	1059.4	1761.8	2990.7	4647.3	5267.4	5371.1
27.5°	368.5	371.8	414.6	585.6	980.4	1674.7	3076.2	5047.0	5708.3	5813.6
30°	388.2	440.9	444.2	495.2	834.0	1501.9	3120.7	5433.6	6081.7	6159.1
32.5°	335.6	319.1	330.7	383.3	733.7	1401.6	3204.6	5770.8	6507.8	6562.1
35°	233.6	245.1	271.4	332.3	641.6	1296.3	3225.9	6142.6	6912.5	6968.4
37.5°	215.5	222.1	243.5	282.9	564.3	1237.1	3196.3	6414.0	7332.0	7409.3
40°	200.7	208.9	220.4	256.6	506.7	1171.3	3155.2	6659.2	7588.6	7779.4
42.5°	189.2	195.8	205.6	245.1	457.3	1105.5	3097.6	7004.6	7818.9	7985.1
45°	176.0	185.9	197.4	238.5	429.4	1061.1	3054.9	6983.2	7952.2	8041.0
47.5°	162.9	179.3	192.5	222.1	421.1	1039.7	3073.0	6902.6	7843.6	7782.7
50°	149.7	171.1	194.1	184.2	401.4	996.9	3094.3	7012.8	7585.3	7573.8
52.5°	138.2	162.9	181.0	151.3	357.0	955.8	3301.6	7157.6	7767.9	7614.9
55°	121.7	146.4	144.8	121.7	289.5	924.5	3464.5	7160.9	7644.5	7702.1
57.5°	110.2	130.0	113.5	102.0	213.9	773.2	3199.6	6004.4	6544.0	6646.0
60°	102.0	126.7	85.5	80.6	139.8	557.7	2793.3	4650.6	5201.6	5394.1
62.5°	93.8	120.1	67.4	65.8	97.1	396.5	2296.5	3892.2	4482.8	4744.3
65°	82.3	85.5	54.3	51.0	69.1	213.9	1398.3	2679.8	3351.0	3448.0
67.5°	67.4	65.8	44.4	41.1	46.1	103.6	616.9	1342.4	1942.8	2105.7
70°	54.3	54.3	37.8	32.9	32.9	47.7	161.2	534.6	878.5	972.2
72.5°	39.5	41.1	29.6	26.3	24.7	23.0	26.3	106.9	230.3	294.5
75°	34.5	36.2	29.6	23.0	18.1	14.8	11.5	9.9	13.2	21.4
77.5°	37.8	37.8	31.3	21.4	16.5	11.5	6.6	3.3	3.3	1.6
80°	47.7	49.4	41.1	28.0	19.7	13.2	8.2	3.3	1.6	1.6
82.5°	51.0	55.9	46.1	34.5	24.7	14.8	8.2	1.6	0.0	0.0
85°	13.2	21.4	36.2	31.3	24.7	14.8	8.2	1.6	0.0	0.0
87.5°	0.0	1.6	4.9	4.9	6.6	6.6	4.9	1.6	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

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