

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: P529093

Luminaire Tested: **GALN-SA4B-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529093
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-SA4B-727-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 10407 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

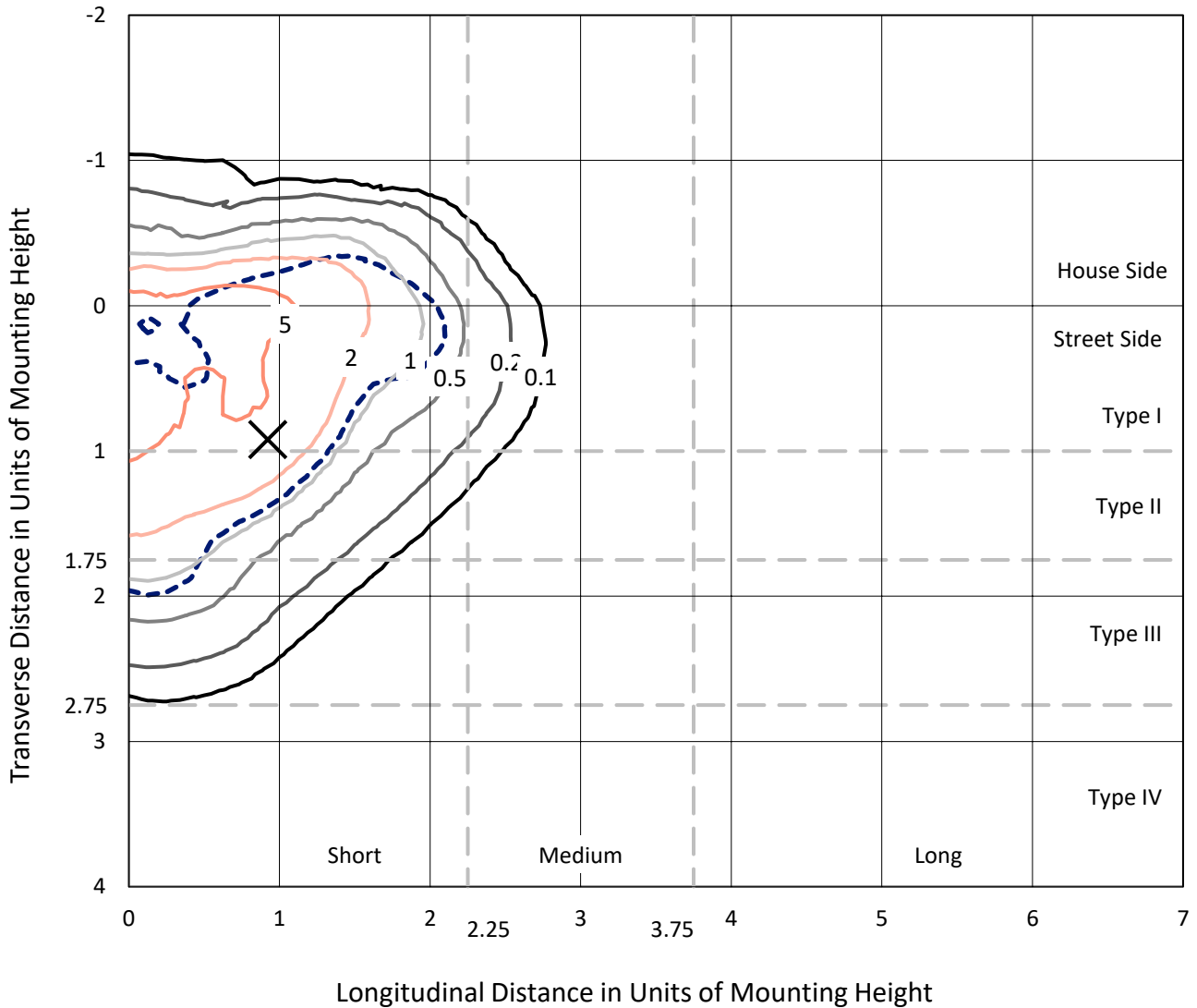
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

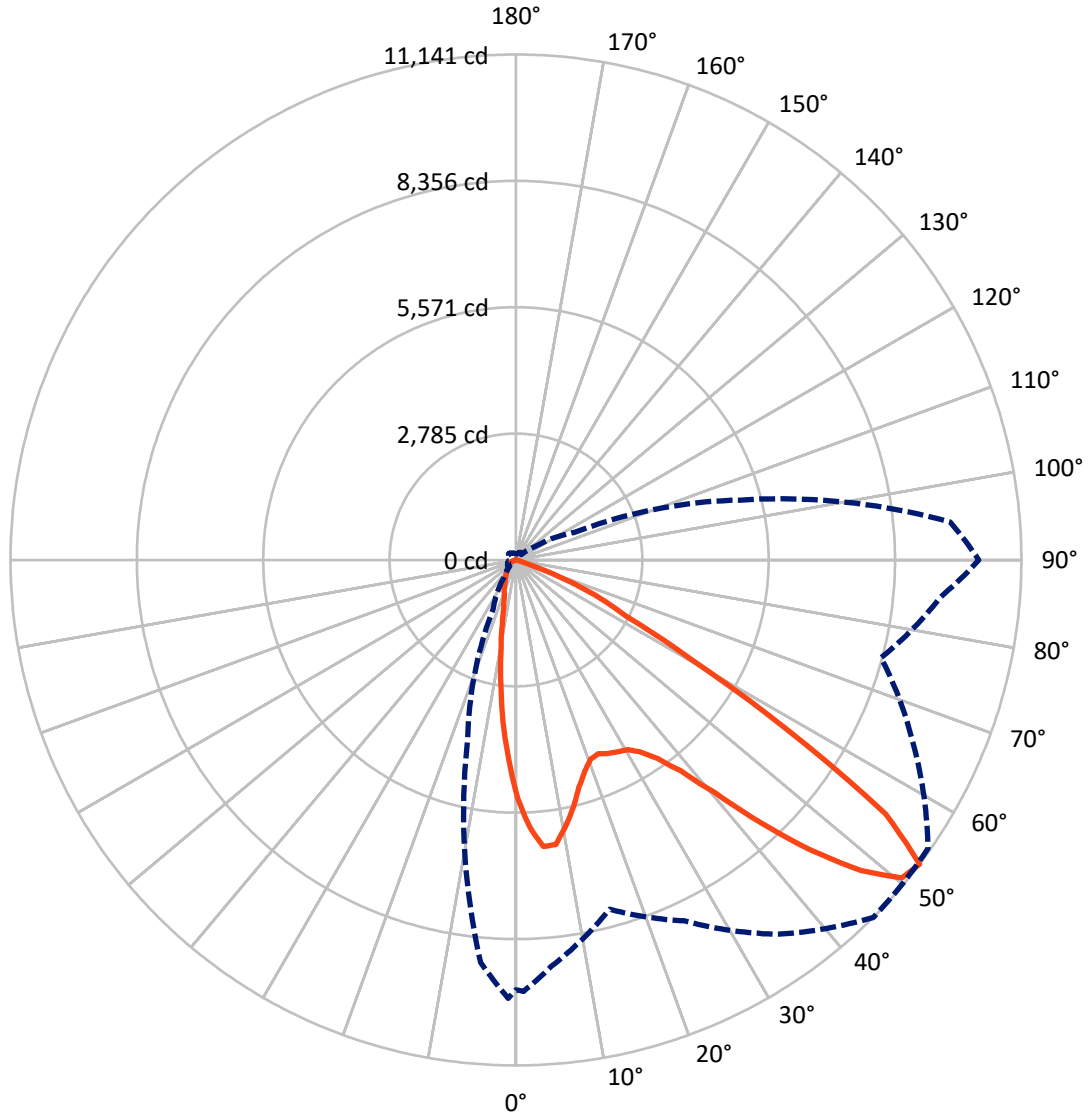
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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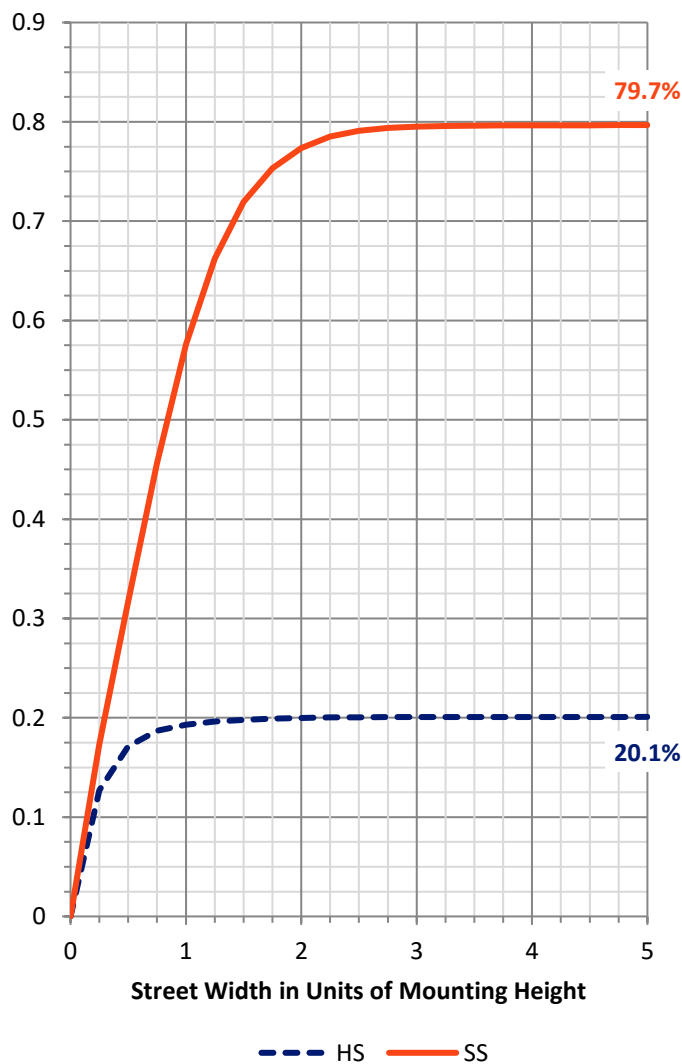
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2112.1	0.0	2112.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8294.9	0.0	8294.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	10407.0	0.0	10407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	3.7
10°-20°	759.3	7.3
20°-30°	1155.5	11.1
30°-40°	1727.0	16.6
40°-50°	2459.4	23.6
50°-60°	2643.8	25.4
60°-70°	1171.5	11.3
70°-80°	94.8	0.9
80°-90°	11.0	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°	10407.0	100.0
0°-180°	10407.0	100.0

Coefficient of Utilization

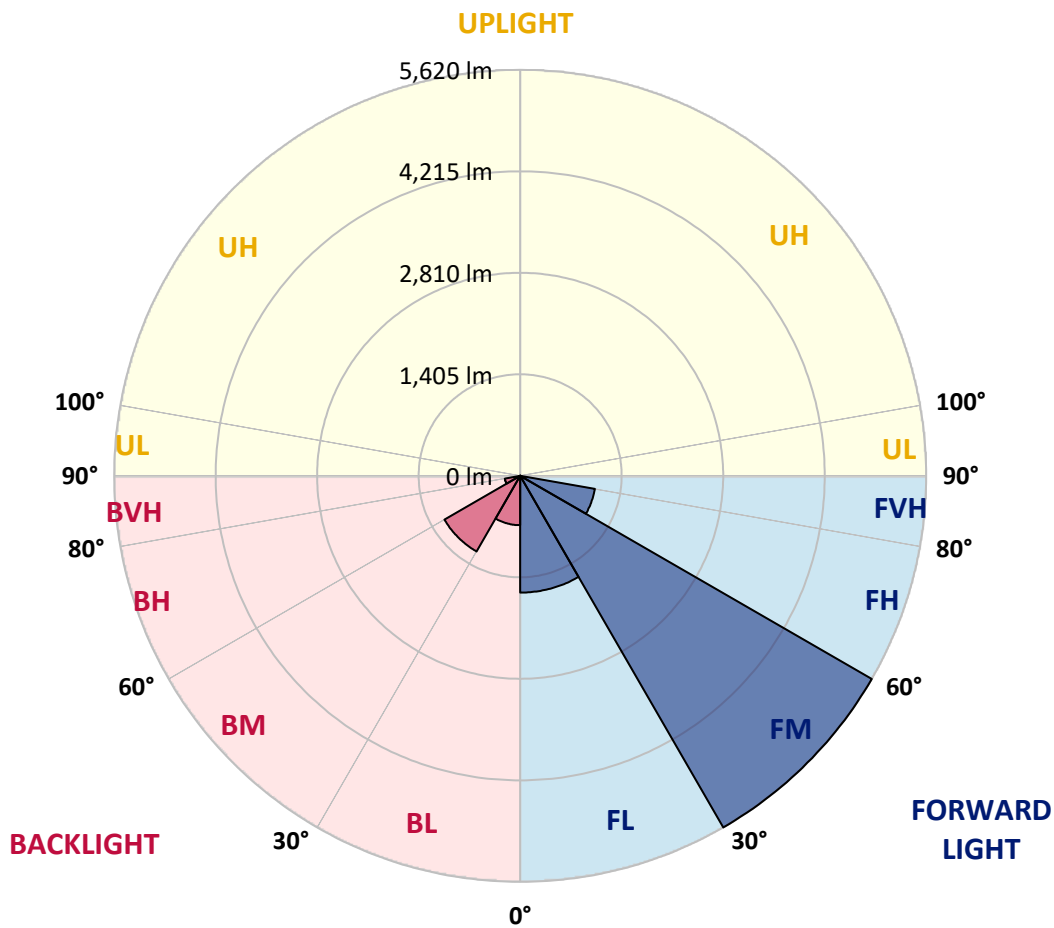


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.4	15.5			
FM (30°-60°)	5620.1	54.0			
FH (60°-80°)	1050.2	10.1			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	683.1	6.6	B2/1000		
BM (30°-60°)	1210.0	11.6	B2/2500		
BH (60°-80°)	216.1	2.1	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: 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°	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8
2.5°	5583.9	5600.2	5690.3	5802.9	5862.2	5997.3	5903.2	5927.7	5876.6	5696.4	5555.2
5°	5414.0	5411.9	5526.6	5804.9	6069.0	6337.1	6345.3	6202.0	5950.3	5673.9	5278.9
7.5°	4902.3	4982.1	5100.8	5545.0	6034.2	6234.8	6331.0	6163.1	5776.3	5381.2	4953.4
10°	4515.4	4556.3	4756.9	5293.2	5651.4	5919.6	5978.9	5882.7	5585.9	5092.6	4613.6
12.5°	4292.3	4312.8	4548.1	4998.5	5377.1	5575.7	5604.3	5649.4	5436.5	4973.9	4398.7
15°	4294.3	4310.7	4628.0	5004.6	5154.0	5100.8	5195.0	5192.9	5285.0	4951.4	4578.8
17.5°	4603.4	4621.8	4908.4	5094.7	5029.2	4904.3	4898.2	4992.3	5186.8	5231.8	4851.1
20°	5135.6	5178.6	5389.4	5379.2	5010.7	4759.0	4689.4	4761.0	5213.4	5469.2	5399.6
22.5°	5852.0	5911.4	6058.7	5776.3	5094.7	4660.7	4638.2	4777.4	5389.4	5999.4	6021.9
25°	6683.0	6783.3	6855.0	6492.7	5393.5	4830.6	4724.2	4963.7	5626.8	6574.5	6814.0
27.5°	7233.6	7338.0	7321.7	6803.8	5594.1	4875.6	4785.6	5008.7	5833.6	6711.7	7227.5
30°	7663.5	7726.9	7841.6	6971.6	5794.7	5002.6	4849.0	5199.1	5901.1	6949.1	7726.9
32.5°	8165.0	8208.0	8216.1	7268.4	6103.8	5162.2	5045.5	5436.5	6200.0	7176.3	8169.1
35°	8670.5	8734.0	8601.0	7634.8	6294.1	5459.0	5373.0	5847.9	6439.5	7411.7	8656.2
37.5°	9219.1	9251.9	8944.8	7786.3	6566.4	5942.1	5895.0	6292.1	6855.0	7837.5	9196.6
40°	9679.7	9710.4	9311.2	7972.6	6852.9	6617.5	6738.3	7139.5	7419.9	8113.8	9466.8
42.5°	9935.5	10007.2	9434.0	7870.2	7428.1	7383.1	7919.3	8060.6	8074.9	8191.6	9708.3
45°	10005.1	9972.4	9231.4	7954.1	7931.6	8641.9	9129.0	9315.3	8725.8	8334.9	9769.7
47.5°	9683.7	9726.7	8932.5	7880.5	8592.8	9595.7	10226.2	10572.1	9210.9	8210.0	9618.2
50°	9423.8	9368.5	8836.3	7827.2	8770.8	10046.0	11018.3	11096.1	9657.1	8363.5	9452.4
52.5°	9475.0	9509.8	8989.9	7968.5	8774.9	10072.7	11141.1	11087.9	9671.5	8328.7	9393.1
55°	9583.4	9429.9	8924.4	7657.3	8187.5	9329.6	9888.4	9806.6	8926.4	7958.2	9247.8
57.5°	8269.4	8506.8	8205.9	6836.5	6719.9	7029.0	7018.7	7270.5	6658.5	6848.8	8418.8
60°	6711.7	6752.6	6865.2	5847.9	4650.5	4544.1	4396.7	4237.0	4480.6	5856.1	7657.3
62.5°	5903.2	5854.1	6255.2	5319.8	3283.2	2748.9	2724.4	2822.6	3457.2	5585.9	7182.5
65°	4290.2	4351.6	4642.3	4128.5	2464.4	2098.0	2061.2	2351.9	2798.1	4476.5	5481.5
67.5°	2620.0	2738.7	2765.3	2546.3	1672.3	1328.4	1275.2	1539.2	2020.3	2896.3	3213.6
70°	1209.7	1353.0	1488.1	1389.8	968.2	546.5	515.8	646.8	1019.3	1666.2	1705.0
72.5°	366.4	368.4	515.8	538.3	313.2	122.8	108.5	143.3	345.9	550.6	579.3
75°	26.6	28.7	69.6	79.8	59.4	30.7	32.7	38.9	73.7	122.8	92.1
77.5°	2.0	2.0	2.0	10.2	18.4	20.5	26.6	30.7	38.9	45.0	40.9
80°	2.0	0.0	2.0	8.2	14.3	20.5	24.6	28.7	30.7	34.8	30.7
82.5°	0.0	0.0	0.0	6.1	14.3	20.5	22.5	30.7	34.8	40.9	34.8
85°	0.0	0.0	0.0	6.1	14.3	22.5	20.5	10.2	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°	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8
2.5°	5579.8	5499.9	5317.8	5225.7	5008.7	4978.0	4765.1	4730.3	4658.7	4619.8	4525.6
5°	5104.9	5008.7	4711.9	4462.2	4171.5	3968.9	3813.3	3672.1	3590.2	3514.5	3549.3
7.5°	4718.0	4437.6	4108.1	3690.5	3354.8	3137.9	2900.4	2706.0	2591.3	2513.6	2532.0
10°	4312.8	4130.6	3672.1	3203.4	2798.1	2644.6	2458.3	2308.9	2147.2	2008.0	1942.5
12.5°	4185.9	3915.7	3340.5	2863.6	2556.5	2407.1	2194.2	2022.3	1815.6	1645.7	1586.3
15°	4208.4	3948.4	3250.4	2740.8	2378.5	2120.6	1866.7	1653.9	1426.7	1308.0	1246.5
17.5°	4574.8	4124.4	3309.8	2611.8	2130.8	1772.6	1459.4	1189.2	1019.3	896.5	869.9
20°	5025.1	4505.2	3436.7	2517.7	1928.2	1410.3	1066.4	833.1	691.8	671.4	665.2
22.5°	5684.2	5127.4	3708.9	2454.2	1680.5	1099.2	730.7	605.9	567.0	562.9	564.9
25°	6605.3	5907.3	4005.7	2401.0	1494.2	847.4	597.7	513.8	501.5	495.3	505.6
27.5°	7004.4	6378.0	4163.3	2286.4	1324.3	763.5	589.5	509.7	474.9	464.6	470.8
30°	7497.7	6691.2	4411.0	2089.9	1074.6	628.4	550.6	554.7	538.3	487.2	470.8
32.5°	8152.7	7082.2	4535.9	1950.7	960.0	519.9	403.2	370.5	413.5	421.7	436.0
35°	8572.3	7479.3	4599.3	1868.8	900.6	444.2	341.8	311.1	300.9	302.9	311.1
37.5°	9352.2	8015.5	4679.1	1782.8	855.6	386.9	309.1	280.4	266.1	266.1	274.3
40°	9818.8	8441.3	4787.6	1735.7	810.6	352.1	280.4	255.9	243.6	243.6	247.7
42.5°	9935.5	8652.1	4750.8	1719.4	759.4	343.9	255.9	237.4	223.1	221.1	219.0
45°	10144.3	8973.5	4756.9	1700.9	706.2	313.2	241.5	221.1	200.6	198.5	196.5
47.5°	10373.5	9204.8	4769.2	1629.3	655.0	262.0	251.8	204.7	180.1	176.0	176.0
50°	10177.0	9389.0	4875.6	1557.7	589.5	212.9	247.7	192.4	159.7	153.5	155.6
52.5°	10201.6	9606.0	5100.8	1457.4	507.6	169.9	200.6	182.2	145.3	135.1	137.1
55°	9808.6	9376.7	5131.5	1350.9	397.1	131.0	153.5	159.7	122.8	118.7	118.7
57.5°	8443.3	7939.8	4527.7	1095.1	262.0	108.5	110.5	139.2	106.4	102.3	104.4
60°	7225.5	6374.0	3643.4	722.5	163.7	86.0	79.8	141.2	94.2	92.1	98.2
62.5°	6586.8	5237.9	2763.3	448.3	112.6	65.5	55.3	114.6	81.9	81.9	90.1
65°	4759.0	3518.6	1606.8	235.4	79.8	51.2	40.9	65.5	67.5	69.6	73.7
67.5°	2947.5	1776.7	677.5	114.6	53.2	34.8	26.6	40.9	45.0	45.0	49.1
70°	1455.3	708.2	225.2	65.5	40.9	28.7	18.4	22.5	22.5	20.5	22.5
72.5°	450.3	212.9	57.3	40.9	28.7	18.4	10.2	8.2	4.1	0.0	2.0
75°	51.2	40.9	36.8	28.7	18.4	8.2	2.0	0.0	0.0	0.0	0.0
77.5°	30.7	34.8	34.8	28.7	18.4	6.1	0.0	0.0	0.0	0.0	0.0
80°	24.6	26.6	28.7	26.6	16.4	8.2	0.0	0.0	0.0	0.0	0.0
82.5°	30.7	34.8	38.9	34.8	22.5	10.2	4.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	6.1	2.0	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°	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8
2.5°	4486.7	4441.7	4505.2	4411.0	4409.0	4411.0	4384.4	4359.8	4398.7	4503.1	4513.3
5°	3424.4	3520.6	3551.3	3651.6	3596.4	3514.5	3530.9	3475.6	3610.7	3670.0	3623.0
7.5°	2493.1	2486.9	2693.7	2706.0	2732.6	2734.6	2730.5	2622.0	2511.5	2536.1	2609.8
10°	1934.3	1829.9	1930.2	1920.0	1985.5	1967.0	1993.7	1877.0	1915.9	1915.9	1962.9
12.5°	1576.1	1465.6	1447.1	1420.5	1447.1	1457.4	1467.6	1445.1	1510.6	1541.3	1574.0
15°	1203.6	1142.2	1125.8	1074.6	1082.8	1111.5	1136.0	1146.2	1125.8	1172.9	1177.0
17.5°	874.0	872.0	882.2	880.2	872.0	865.8	863.8	837.2	829.0	833.1	849.5
20°	663.2	679.6	714.4	749.2	767.6	745.1	714.4	669.3	650.9	655.0	657.0
22.5°	567.0	591.5	638.6	677.5	695.9	655.0	599.7	560.8	552.7	550.6	548.6
25°	513.8	542.4	577.2	589.5	587.5	562.9	522.0	505.6	501.5	497.4	479.0
27.5°	485.1	495.3	501.5	515.8	522.0	505.6	495.3	470.8	466.7	466.7	454.4
30°	468.7	462.6	470.8	460.5	468.7	456.5	458.5	458.5	448.3	452.4	452.4
32.5°	436.0	438.0	438.0	417.6	423.7	409.4	423.7	436.0	438.0	440.1	456.5
35°	319.3	356.2	374.6	374.6	380.7	370.5	368.4	354.1	335.7	317.3	309.1
37.5°	280.4	294.7	319.3	333.6	343.9	335.7	317.3	294.7	284.5	276.3	268.1
40°	249.7	262.0	278.4	294.7	315.2	305.0	276.3	266.1	253.8	253.8	245.6
42.5°	225.2	231.3	241.5	266.1	288.6	268.1	247.7	239.5	233.3	231.3	229.2
45°	202.6	204.7	214.9	235.4	262.0	241.5	221.1	210.8	212.9	214.9	212.9
47.5°	182.2	186.3	192.4	217.0	233.3	223.1	200.6	194.5	194.5	194.5	196.5
50°	157.6	167.8	180.1	200.6	212.9	206.7	188.3	180.1	176.0	176.0	178.1
52.5°	141.2	149.4	165.8	190.4	206.7	196.5	178.1	165.8	157.6	155.6	159.7
55°	122.8	137.1	163.7	182.2	204.7	194.5	174.0	159.7	145.3	143.3	143.3
57.5°	110.5	133.0	157.6	180.1	198.5	190.4	174.0	155.6	137.1	135.1	135.1
60°	104.4	129.0	153.5	174.0	198.5	186.3	171.9	151.5	131.0	131.0	129.0
62.5°	98.2	120.8	145.3	165.8	190.4	180.1	165.8	145.3	124.9	124.9	120.8
65°	81.9	104.4	120.8	139.2	165.8	155.6	141.2	126.9	110.5	106.4	108.5
67.5°	57.3	71.6	88.0	106.4	122.8	118.7	112.6	102.3	88.0	86.0	83.9
70°	28.7	38.9	53.2	71.6	86.0	81.9	77.8	69.6	61.4	59.4	59.4
72.5°	4.1	12.3	22.5	32.7	45.0	47.1	45.0	43.0	40.9	38.9	40.9
75°	0.0	0.0	0.0	8.2	18.4	22.5	26.6	30.7	30.7	26.6	32.7
77.5°	0.0	0.0	0.0	0.0	2.0	10.2	20.5	26.6	32.7	28.7	38.9
80°	0.0	0.0	0.0	0.0	2.0	12.3	20.5	28.7	32.7	28.7	40.9
82.5°	0.0	0.0	0.0	0.0	2.0	14.3	20.5	26.6	30.7	28.7	36.8
85°	0.0	0.0	0.0	0.0	6.1	12.3	8.2	4.1	2.0	2.0	6.1
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-SA4B-727-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8	5276.8
2.5°	4570.7	4716.0	4871.6	4930.9	5115.1	5254.3	5348.5	5551.1	5581.8	5583.9
5°	3672.1	3745.8	4011.9	4136.7	4411.0	4623.9	4851.1	5178.6	5397.6	5414.0
7.5°	2609.8	2814.4	2927.0	3252.5	3590.2	3923.9	4261.6	4642.3	4896.1	4902.3
10°	2100.1	2233.1	2433.7	2677.3	2961.8	3301.6	3751.9	4194.0	4451.9	4515.4
12.5°	1690.7	1924.1	2153.3	2405.1	2622.0	2877.9	3363.0	3952.5	4165.4	4292.3
15°	1301.8	1514.7	1784.9	2079.6	2325.2	2667.1	3219.7	3893.1	4251.4	4294.3
17.5°	960.0	1150.3	1400.1	1678.4	2046.9	2532.0	3244.3	4194.0	4531.8	4603.4
20°	689.8	800.3	996.8	1320.2	1789.0	2374.4	3268.9	4499.0	5012.8	5135.6
22.5°	546.5	591.5	720.5	1007.1	1500.4	2208.6	3442.8	5082.4	5673.9	5852.0
25°	474.9	499.4	560.8	794.2	1318.2	2192.2	3721.2	5782.4	6554.1	6683.0
27.5°	458.5	462.6	515.8	728.7	1219.9	2083.7	3827.6	6279.8	7102.6	7233.6
30°	483.1	548.6	552.7	616.1	1037.8	1868.8	3882.9	6760.8	7567.3	7663.5
32.5°	417.6	397.1	411.4	476.9	912.9	1743.9	3987.3	7180.4	8097.4	8165.0
35°	290.7	305.0	337.7	413.5	798.3	1612.9	4013.9	7643.0	8601.0	8670.5
37.5°	268.1	276.3	302.9	352.1	702.1	1539.2	3977.1	7980.7	9122.9	9219.1
40°	249.7	260.0	274.3	319.3	630.4	1457.4	3925.9	8285.7	9442.2	9679.7
42.5°	235.4	243.6	255.9	305.0	569.0	1375.5	3854.3	8715.6	9728.8	9935.5
45°	219.0	231.3	245.6	296.8	534.2	1320.2	3801.0	8689.0	9894.6	10005.1
47.5°	202.6	223.1	239.5	276.3	524.0	1293.6	3823.6	8588.7	9759.5	9683.7
50°	186.3	212.9	241.5	229.2	499.4	1240.4	3850.2	8725.8	9438.1	9423.8
52.5°	171.9	202.6	225.2	188.3	444.2	1189.2	4108.1	8905.9	9665.3	9475.0
55°	151.5	182.2	180.1	151.5	360.2	1150.3	4310.7	8910.0	9511.8	9583.4
57.5°	137.1	161.7	141.2	126.9	266.1	962.0	3981.2	7471.1	8142.5	8269.4
60°	126.9	157.6	106.4	100.3	174.0	693.9	3475.6	5786.5	6472.2	6711.7
62.5°	116.7	149.4	83.9	81.9	120.8	493.3	2857.4	4842.9	5577.7	5903.2
65°	102.3	106.4	67.5	63.5	86.0	266.1	1739.8	3334.4	4169.5	4290.2
67.5°	83.9	81.9	55.3	51.2	57.3	129.0	767.6	1670.2	2417.4	2620.0
70°	67.5	67.5	47.1	40.9	40.9	59.4	200.6	665.2	1093.0	1209.7
72.5°	49.1	51.2	36.8	32.7	30.7	28.7	32.7	133.0	286.6	366.4
75°	43.0	45.0	36.8	28.7	22.5	18.4	14.3	12.3	16.4	26.6
77.5°	47.1	47.1	38.9	26.6	20.5	14.3	8.2	4.1	4.1	2.0
80°	59.4	61.4	51.2	34.8	24.6	16.4	10.2	4.1	2.0	2.0
82.5°	63.5	69.6	57.3	43.0	30.7	18.4	10.2	2.0	0.0	0.0
85°	16.4	26.6	45.0	38.9	30.7	18.4	10.2	2.0	0.0	0.0
87.5°	0.0	2.0	6.1	6.1	8.2	8.2	6.1	2.0	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)