

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: P453191

Luminaire Tested: **GALN-SA4B-722-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453191  
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-SA4B-722-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 800mA 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: 11884 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

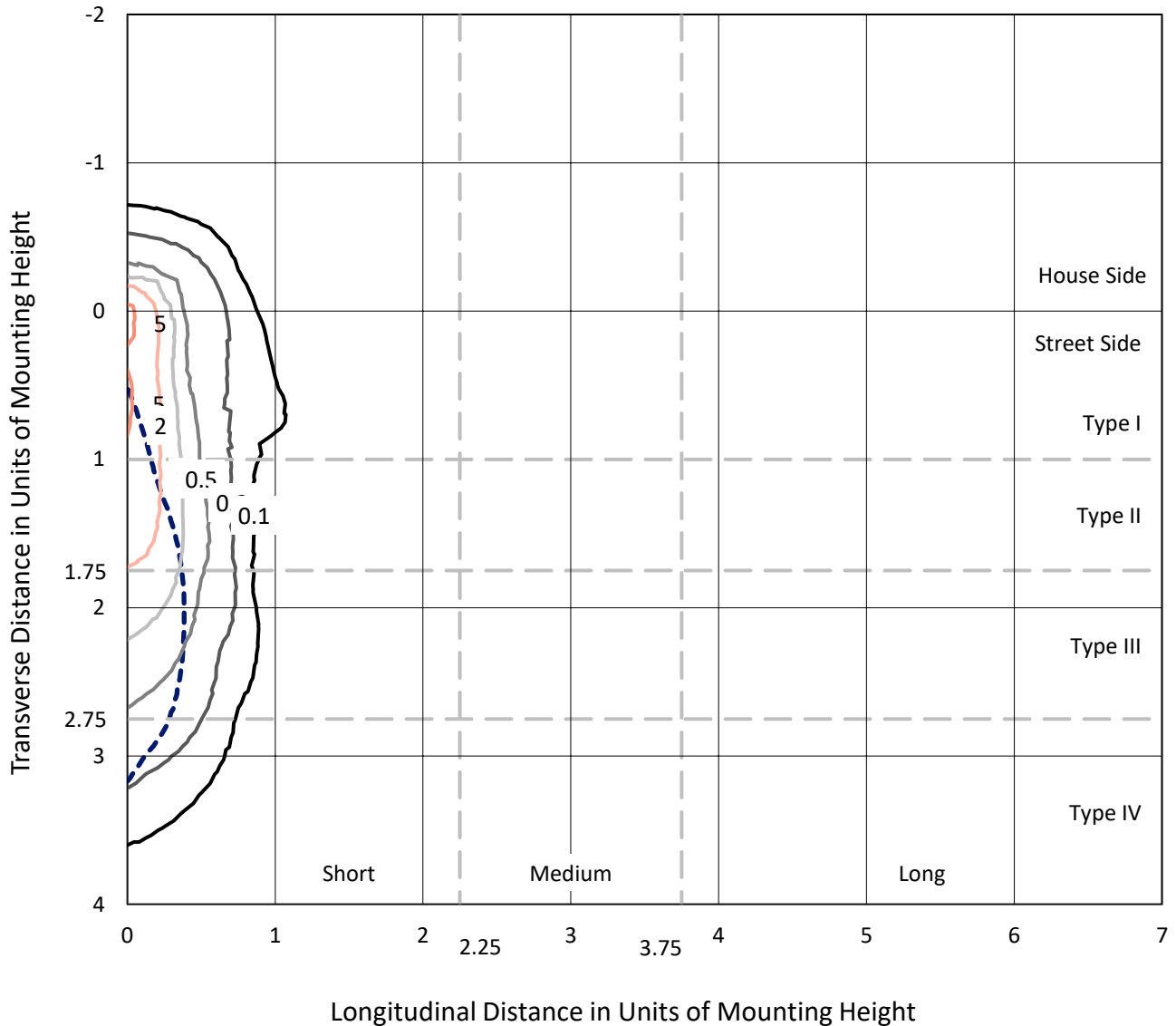
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

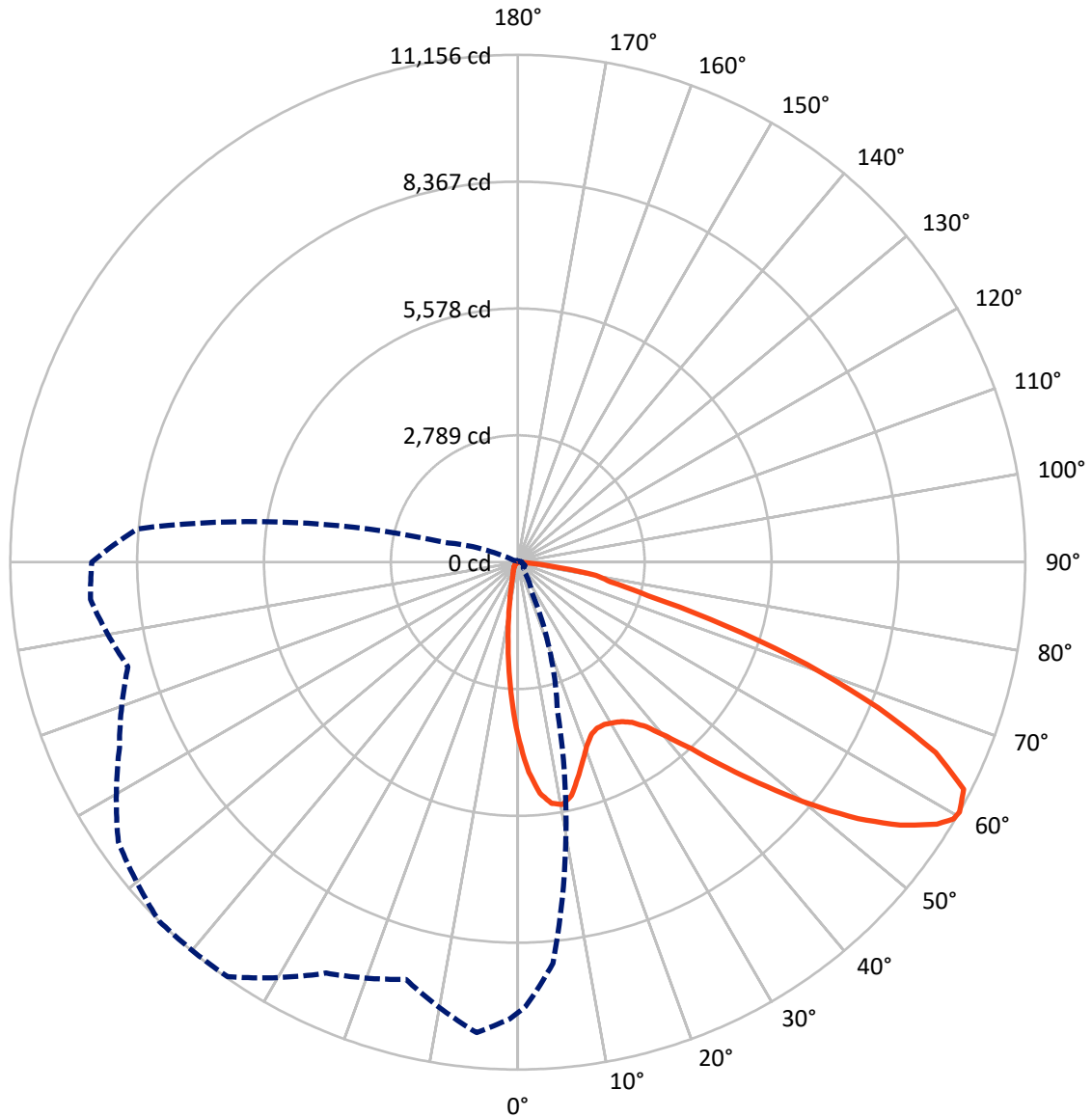
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1465.8	0.0	1465.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	10418.2	0.0	10418.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	11884.0	0.0	11884.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.1	2.5
10°-20°	580.2	4.9
20°-30°	850.7	7.2
30°-40°	1265.2	10.6
40°-50°	1841.2	15.5
50°-60°	2655.2	22.3
60°-70°	2920.4	24.6
70°-80°	1308.1	11.0
80°-90°	170.9	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°	11884.0	100.0
0°-180°	11884.0	100.0

**Coefficient of Utilization**



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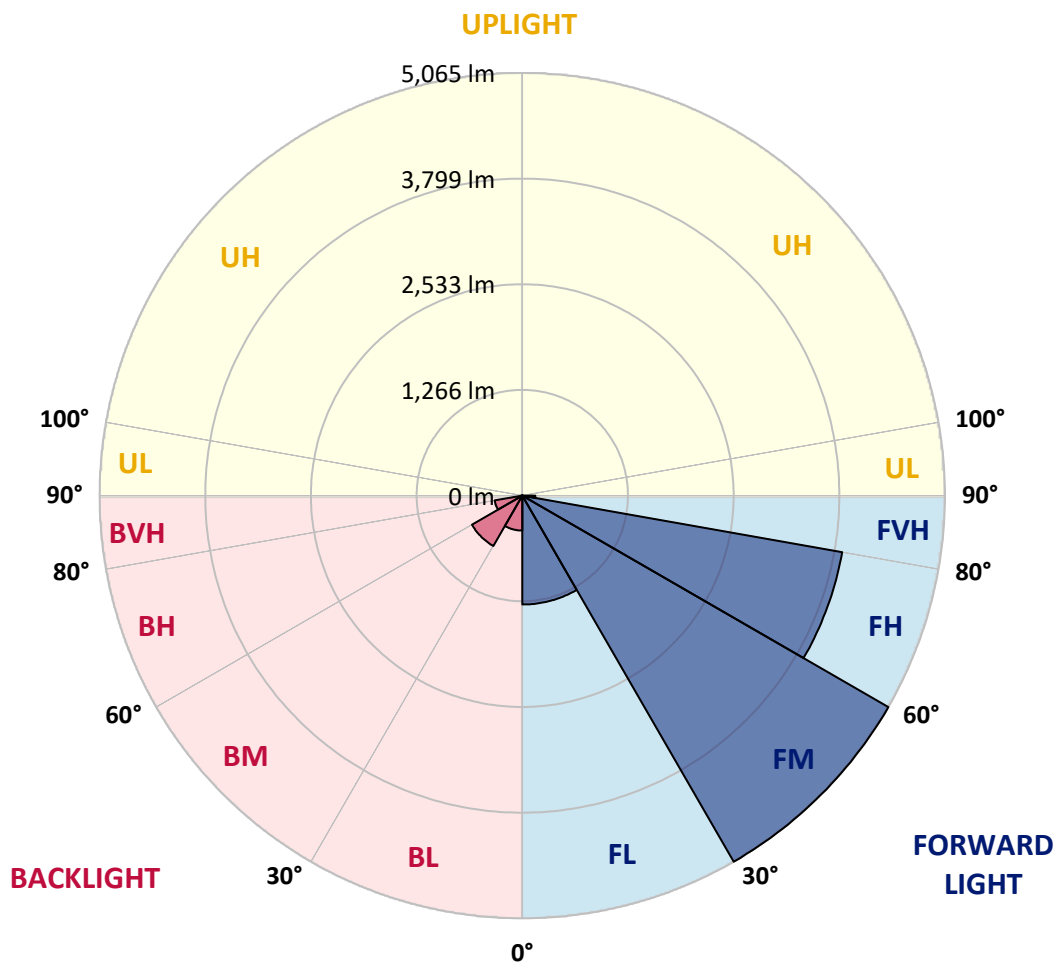
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.2	11.0			
FM (30°-60°)	5065.3	42.6			
FH (60°-80°)	3892.4	32.8			G2/5000
FVH (80°-90°)	156.3	1.3			G2/225
BL (0°-30°)	418.8	3.5	B1/500		
BM (30°-60°)	696.2	5.9	B1/1000		
BH (60°-80°)	336.1	2.8	B1/500		G1/500
BVH (80°-90°)	14.6	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°	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8
2.5°	4318.1	4299.1	4255.8	4123.9	4009.1	3859.2	3707.4	3588.2	3515.0	3380.4	3319.0
5°	4183.5	4192.5	4067.0	3795.9	3494.2	3288.2	3063.3	2884.4	2687.5	2562.8	2431.9
7.5°	3832.1	3814.0	3677.6	3300.0	2933.2	2635.1	2350.6	2119.3	1973.9	1857.3	1759.8
10°	3531.3	3517.7	3343.4	2857.3	2463.5	2240.3	2047.9	1845.6	1689.3	1518.6	1382.1
12.5°	3342.5	3311.7	3111.2	2603.5	2282.8	2075.0	1865.4	1655.0	1439.1	1266.5	1101.2
15°	3279.2	3235.0	3011.8	2515.9	2167.2	1903.4	1640.5	1398.4	1150.0	959.4	834.7
17.5°	3393.9	3320.8	3083.2	2500.5	2029.0	1679.4	1356.0	1040.7	782.3	636.9	560.1
20°	3656.8	3572.8	3263.9	2485.2	1875.4	1428.2	1030.7	735.3	541.1	461.6	419.2
22.5°	4047.1	3931.4	3531.3	2509.5	1733.6	1183.4	744.4	519.4	430.0	380.3	350.5
25°	4515.9	4419.3	3870.0	2596.3	1621.5	991.0	575.4	424.6	362.2	331.5	309.0
27.5°	5029.9	4875.5	4308.1	2700.2	1519.5	841.9	505.0	379.4	322.5	294.5	282.8
30°	5395.8	5275.7	4674.9	2772.4	1392.1	729.9	461.6	374.0	323.4	290.0	268.3
32.5°	5757.1	5603.6	4982.1	2805.9	1299.0	652.2	399.3	326.1	283.7	266.5	244.8
35°	6143.8	5983.0	5288.3	2787.8	1229.5	600.7	362.2	290.9	243.0	214.1	192.4
37.5°	6534.9	6365.1	5592.7	2722.7	1186.1	580.0	333.3	276.4	229.5	199.6	176.2
40°	6999.3	6772.5	5878.2	2669.4	1141.0	569.1	314.4	267.4	219.5	187.9	164.4
42.5°	7378.7	7162.8	6148.3	2641.4	1110.2	543.8	314.4	260.2	213.2	178.0	153.6
45°	7738.2	7514.2	6440.1	2664.0	1097.6	512.2	318.0	259.3	208.7	170.7	146.3
47.5°	8039.0	7844.8	6740.0	2748.9	1081.3	477.9	299.0	271.9	206.0	164.4	139.1
50°	8394.1	8206.2	7136.6	2920.6	1052.4	443.6	275.5	292.7	205.1	159.0	132.8
52.5°	8894.5	8691.3	7684.0	3115.7	1006.3	391.2	253.8	290.0	201.5	150.0	126.5
55°	9506.1	9341.7	8318.2	3349.7	943.1	332.4	219.5	257.5	190.6	134.6	115.6
57.5°	9898.2	9758.2	8793.4	3450.9	846.5	271.9	193.3	215.9	174.3	120.1	103.0
59°	9944.2	9817.8	8892.7	3417.4	783.2	248.4	180.7	185.2	169.8	112.0	95.8
60°	9905.4	9774.4	8853.0	3352.4	724.5	232.2	169.8	164.4	170.7	107.5	90.3
62.5°	9656.1	9432.0	8467.2	3022.7	633.3	213.2	150.9	134.6	150.9	96.7	80.4
65°	9174.6	8838.5	7703.9	2558.3	597.1	202.4	128.3	112.9	114.7	84.9	69.6
67.5°	8333.5	7909.9	6687.6	2078.6	581.8	203.3	108.4	101.2	88.5	72.3	61.4
70°	7003.8	6581.0	5366.0	1710.1	574.5	203.3	92.1	86.7	74.1	60.5	53.3
72.5°	4963.1	4507.8	3619.8	1343.3	517.6	202.4	78.6	78.6	60.5	50.6	43.4
75°	2804.0	2807.7	2275.6	950.3	430.0	167.1	63.2	62.3	44.3	38.8	32.5
77.5°	1634.2	1605.3	1533.9	408.3	199.6	75.9	44.3	37.9	30.7	28.0	23.5
80°	840.1	691.1	673.0	148.2	71.4	47.9	30.7	21.7	19.9	18.1	16.3
82.5°	248.4	249.3	222.2	59.6	39.7	31.6	15.4	11.7	10.8	9.9	9.9
85°	17.2	10.8	12.6	18.1	24.4	12.6	0.9	2.7	2.7	3.6	4.5
87.5°	1.8	0.9	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°	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8
2.5°	3251.2	3291.0	3216.9	3218.7	3157.3	3177.1	3104.9	3128.4	3085.9	3118.4	3214.2
5°	2446.3	2455.3	2395.7	2376.8	2385.8	2422.8	2437.3	2371.3	2399.3	2344.2	2340.6
7.5°	1723.6	1734.5	1700.1	1695.6	1760.7	1745.3	1773.3	1705.6	1641.4	1669.4	1617.9
10°	1338.8	1293.6	1223.2	1203.3	1190.6	1198.8	1198.8	1137.3	1128.3	1103.9	1141.0
12.5°	1056.9	1001.8	935.0	844.6	822.1	820.3	786.8	732.6	715.5	694.7	725.4
15°	767.9	745.3	689.3	638.7	587.2	577.3	523.0	478.8	420.1	411.9	409.2
17.5°	540.2	506.8	505.9	477.0	447.2	427.3	376.7	326.1	303.5	300.8	300.8
20°	404.7	393.0	374.0	370.4	361.3	338.8	293.6	266.5	255.7	256.6	260.2
22.5°	340.6	332.4	315.3	307.1	303.5	283.7	250.2	232.2	226.7	226.7	227.6
25°	304.4	297.2	278.2	265.6	261.1	246.6	220.4	206.9	202.4	202.4	202.4
27.5°	277.3	268.3	248.4	237.6	229.5	213.2	196.9	183.4	178.9	178.9	179.8
30°	258.4	248.4	230.4	215.9	203.3	188.8	175.3	163.5	158.1	157.2	158.1
32.5°	233.1	224.0	206.0	196.9	182.5	165.3	154.5	143.6	138.2	139.1	138.2
35°	181.6	178.9	166.2	168.9	160.8	146.3	136.4	124.7	118.3	117.4	119.2
37.5°	165.3	154.5	140.0	140.9	138.2	132.8	116.5	103.9	99.4	99.4	100.3
40°	152.7	141.8	125.6	117.4	118.3	118.3	101.2	87.6	83.1	82.2	84.0
42.5°	141.8	131.0	112.9	99.4	95.8	100.3	85.8	72.3	67.8	65.9	67.8
45°	134.6	122.9	102.1	86.7	75.9	81.3	70.5	59.6	54.2	54.2	53.3
47.5°	127.4	116.5	93.9	75.0	63.2	60.5	57.8	47.9	42.5	41.6	42.5
50°	121.1	110.2	84.9	65.0	53.3	47.0	47.0	37.9	34.3	32.5	33.4
52.5°	114.7	103.0	76.8	57.8	46.1	37.9	33.4	30.7	28.0	27.1	28.0
55°	105.7	93.9	68.7	49.7	39.7	31.6	26.2	25.3	23.5	21.7	23.5
57.5°	94.9	84.0	60.5	42.5	31.6	24.4	21.7	20.8	19.0	18.1	18.1
59°	88.5	78.6	56.0	37.0	28.0	21.7	19.9	19.0	17.2	15.4	16.3
60°	84.9	76.8	53.3	34.3	25.3	19.9	18.1	17.2	15.4	14.5	15.4
62.5°	75.0	68.7	47.0	28.0	19.9	14.5	12.6	13.6	12.6	11.7	12.6
65°	65.9	60.5	39.7	21.7	15.4	9.9	9.0	11.7	10.8	9.9	10.8
67.5°	58.7	52.4	33.4	16.3	10.8	5.4	6.3	9.9	9.9	9.0	9.9
70°	50.6	45.2	27.1	11.7	5.4	2.7	4.5	7.2	9.0	8.1	9.0
72.5°	41.6	35.2	20.8	8.1	2.7	0.0	2.7	6.3	9.0	8.1	9.0
75°	32.5	26.2	15.4	4.5	0.0	0.0	0.9	5.4	9.0	8.1	9.0
77.5°	23.5	19.0	9.0	0.9	0.0	0.0	0.9	5.4	9.0	8.1	9.0
80°	15.4	13.6	3.6	0.0	0.0	0.0	0.9	5.4	9.0	9.0	9.9
82.5°	9.9	7.2	0.0	0.0	0.0	0.0	1.8	7.2	9.9	10.8	10.8
85°	4.5	0.0	0.0	0.0	0.0	0.0	3.6	9.0	11.7	11.7	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	6.3	10.8	13.6	13.6	13.6
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°	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8
2.5°	3230.4	3287.3	3367.7	3491.5	3591.8	3749.9	3870.9	4036.2	4203.4	4253.9	4332.5
5°	2377.7	2450.8	2633.3	2799.5	2904.3	3238.6	3450.0	3783.3	4082.3	4225.9	4382.2
7.5°	1651.4	1738.1	1877.2	2109.4	2329.8	2601.7	2943.2	3324.4	3762.5	3967.6	4188.0
10°	1159.0	1267.4	1463.5	1654.1	1931.4	2189.8	2526.7	2947.7	3431.0	3673.1	3949.5
12.5°	731.7	828.4	1087.7	1301.7	1647.7	1947.7	2258.4	2639.6	3199.7	3448.1	3738.1
15°	418.3	499.6	620.6	895.2	1279.2	1675.7	2063.3	2505.9	3081.4	3387.6	3701.1
17.5°	311.7	333.3	387.5	542.9	892.5	1356.0	1883.5	2465.3	3161.8	3521.3	3879.1
20°	262.0	276.4	301.7	363.2	569.1	1044.3	1708.3	2472.5	3421.9	3873.6	4213.3
22.5°	234.9	243.9	264.7	304.4	388.4	760.6	1503.2	2515.0	3737.2	4306.3	4698.4
25°	206.0	217.7	235.8	270.1	323.4	527.6	1300.8	2609.8	4179.0	4855.6	5224.2
27.5°	183.4	194.2	212.3	243.9	283.7	402.9	1065.1	2691.1	4645.1	5408.4	5710.2
30°	160.8	171.6	189.7	215.0	251.1	326.1	811.2	2739.0	5097.7	5823.1	6055.3
32.5°	141.8	150.9	168.0	190.6	220.4	276.4	639.6	2689.3	5443.7	6199.8	6355.2
35°	122.9	133.7	148.2	168.9	195.1	235.8	532.1	2517.7	5740.9	6587.3	6643.3
37.5°	103.0	115.6	131.0	150.0	170.7	216.8	427.3	2328.0	6058.9	7070.6	6978.5
40°	86.7	98.5	112.9	133.7	152.7	198.7	328.8	2125.6	6402.1	7524.1	7344.4
42.5°	70.5	83.1	100.3	119.2	150.9	173.4	254.7	1916.0	6710.2	7918.9	7675.0
45°	56.0	66.8	84.9	109.3	150.0	149.1	196.9	1709.2	6942.4	8200.7	7921.6
47.5°	44.3	53.3	71.4	106.6	138.2	126.5	158.1	1580.9	7186.3	8454.6	8110.4
50°	35.2	44.3	61.4	111.1	121.1	108.4	132.8	1601.7	7422.0	8583.8	8188.1
52.5°	29.8	38.8	53.3	87.6	93.0	94.9	116.5	1697.4	7726.5	8722.0	8342.6
55°	26.2	34.3	45.2	61.4	72.3	84.9	106.6	1767.0	8133.9	9018.3	8683.1
57.5°	20.8	29.8	40.7	52.4	59.6	74.1	98.5	1772.4	8502.5	9398.6	9135.7
59°	19.0	27.1	37.9	49.7	53.3	66.8	93.0	1726.3	8516.0	9455.5	9343.5
60°	17.2	26.2	36.1	46.1	50.6	63.2	88.5	1673.0	8393.2	9365.2	9429.3
62.5°	14.5	22.6	31.6	37.0	43.4	52.4	76.8	1479.7	7797.8	8956.0	9270.3
65°	12.6	19.9	27.1	30.7	36.1	45.2	67.8	1184.3	7140.2	8401.3	8815.0
67.5°	11.7	18.1	23.5	26.2	31.6	41.6	60.5	836.5	6288.3	7697.6	8131.2
70°	10.8	17.2	20.8	24.4	28.0	35.2	51.5	487.8	4843.8	6463.6	6921.6
72.5°	10.8	16.3	18.1	20.8	24.4	31.6	47.9	263.8	3311.7	4930.6	5522.3
75°	10.8	15.4	16.3	18.1	21.7	28.9	42.5	138.2	2141.0	3425.6	4227.7
77.5°	10.8	14.5	16.3	17.2	20.8	25.3	37.0	86.7	1426.4	2399.3	2857.3
80°	11.7	14.5	15.4	17.2	19.9	23.5	30.7	57.8	838.3	1443.6	1739.0
82.5°	12.6	14.5	16.3	18.1	20.8	22.6	27.1	36.1	386.6	954.9	1080.4
85°	13.6	15.4	17.2	19.0	21.7	22.6	25.3	26.2	63.2	430.9	582.7
87.5°	14.5	16.3	18.1	19.9	23.5	23.5	23.5	23.5	21.7	46.1	117.4
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-SA4B-722-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8	3927.8
2.5°	4431.9	4534.0	4605.4	4623.4	4571.9	4548.4	4483.4	4382.2	4320.8	4318.1
5°	4670.4	4909.8	5076.0	5104.0	5004.6	4836.6	4637.0	4379.5	4228.7	4183.5
7.5°	4629.7	5048.9	5316.3	5355.1	5188.0	4867.3	4480.7	4066.0	3901.6	3832.1
10°	4462.6	4973.9	5356.1	5417.5	5194.3	4742.7	4251.2	3788.7	3584.6	3531.3
12.5°	4319.9	4836.6	5176.3	5261.2	5092.3	4641.5	4113.9	3610.8	3392.1	3342.5
15°	4257.6	4674.0	4881.8	4925.1	4897.1	4578.3	4099.5	3583.6	3333.4	3279.2
17.5°	4319.9	4535.8	4562.0	4606.3	4668.6	4571.9	4238.6	3730.9	3460.8	3393.9
20°	4483.4	4415.6	4307.2	4326.2	4468.9	4598.1	4486.1	4057.0	3728.2	3656.8
22.5°	4761.6	4385.8	4140.1	4123.9	4304.5	4685.8	4849.3	4498.8	4117.5	4047.1
25°	5103.1	4460.8	4078.7	4043.5	4240.4	4814.0	5244.0	5039.9	4623.4	4515.9
27.5°	5475.3	4616.2	4078.7	4044.4	4235.0	4927.9	5581.9	5518.7	5147.4	5029.9
30°	5679.5	4744.5	4137.4	4098.6	4301.8	4993.8	5762.6	5944.1	5541.2	5395.8
32.5°	5861.9	4922.4	4252.1	4179.0	4441.8	5091.4	5924.3	6305.5	5854.7	5757.1
35°	6030.0	5113.0	4410.2	4325.3	4626.1	5225.1	6103.1	6684.9	6291.0	6143.8
37.5°	6215.2	5334.4	4656.8	4584.6	4934.2	5485.2	6315.4	7183.6	6720.1	6534.9
40°	6416.6	5590.9	5062.5	5031.7	5423.8	5779.7	6583.7	7715.6	7209.8	6999.3
42.5°	6621.7	5886.3	5559.3	5609.9	5978.5	6192.6	6859.3	8124.9	7610.9	7378.7
45°	6807.8	6263.9	6205.2	6455.4	6625.3	6595.5	7063.4	8413.0	7960.5	7738.2
47.5°	7042.6	6814.1	6986.6	7372.4	7376.9	7033.6	7217.9	8648.8	8261.3	8039.0
50°	7305.5	7463.6	7995.7	8388.6	8283.0	7464.5	7398.6	8928.0	8572.0	8394.1
52.5°	7609.9	8190.8	8928.0	9364.3	9117.7	7934.3	7699.4	9229.7	9065.3	8894.5
55°	7964.1	8686.8	9857.5	10205.3	9956.9	8517.8	8156.5	9638.9	9622.6	9506.1
57.5°	8364.3	9210.7	10395.9	10866.6	10645.3	9202.6	8795.2	10024.6	9963.2	9898.2
59°	8680.4	9479.9	10633.5	11121.3	10987.6	9682.3	9224.3	10264.9	10041.8	9944.2
60°	8871.9	9662.4	10721.1	11155.7	11124.9	9967.7	9496.2	10382.4	10040.9	9905.4
62.5°	9440.2	9981.3	10687.7	11003.0	11123.1	10515.2	10293.8	10511.6	9854.8	9656.1
65°	9642.5	9875.6	10134.0	10095.1	10198.1	10487.2	10803.3	10369.7	9457.3	9174.6
67.5°	9248.7	8716.6	8807.8	8548.5	8498.0	9323.6	10596.5	9675.9	8679.5	8333.5
70°	7796.0	6677.7	6631.6	6750.8	6423.8	7548.5	9515.1	8339.9	7395.9	7003.8
72.5°	6136.6	4719.2	4330.7	4769.8	4759.8	5759.0	7904.4	5917.9	4996.5	4963.1
75°	4825.8	3285.5	2883.5	2954.9	3092.2	4169.0	6295.6	3758.0	3076.9	2804.0
77.5°	3239.5	2328.0	2171.7	2084.1	2232.2	2676.7	3982.9	2038.0	1725.4	1634.2
80°	1867.3	1691.1	1920.6	1743.5	1823.0	1686.6	1981.1	935.0	776.0	840.1
82.5°	1215.0	963.0	1026.2	762.4	1042.5	1051.5	636.0	276.4	234.0	248.4
85°	759.7	451.7	253.8	180.7	359.5	661.3	198.7	17.2	19.9	17.2
87.5°	196.9	75.0	31.6	47.0	57.8	51.5	46.1	2.7	0.9	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)