

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: P453190

Luminaire Tested: **GALN-SA4B-722-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
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-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14264 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

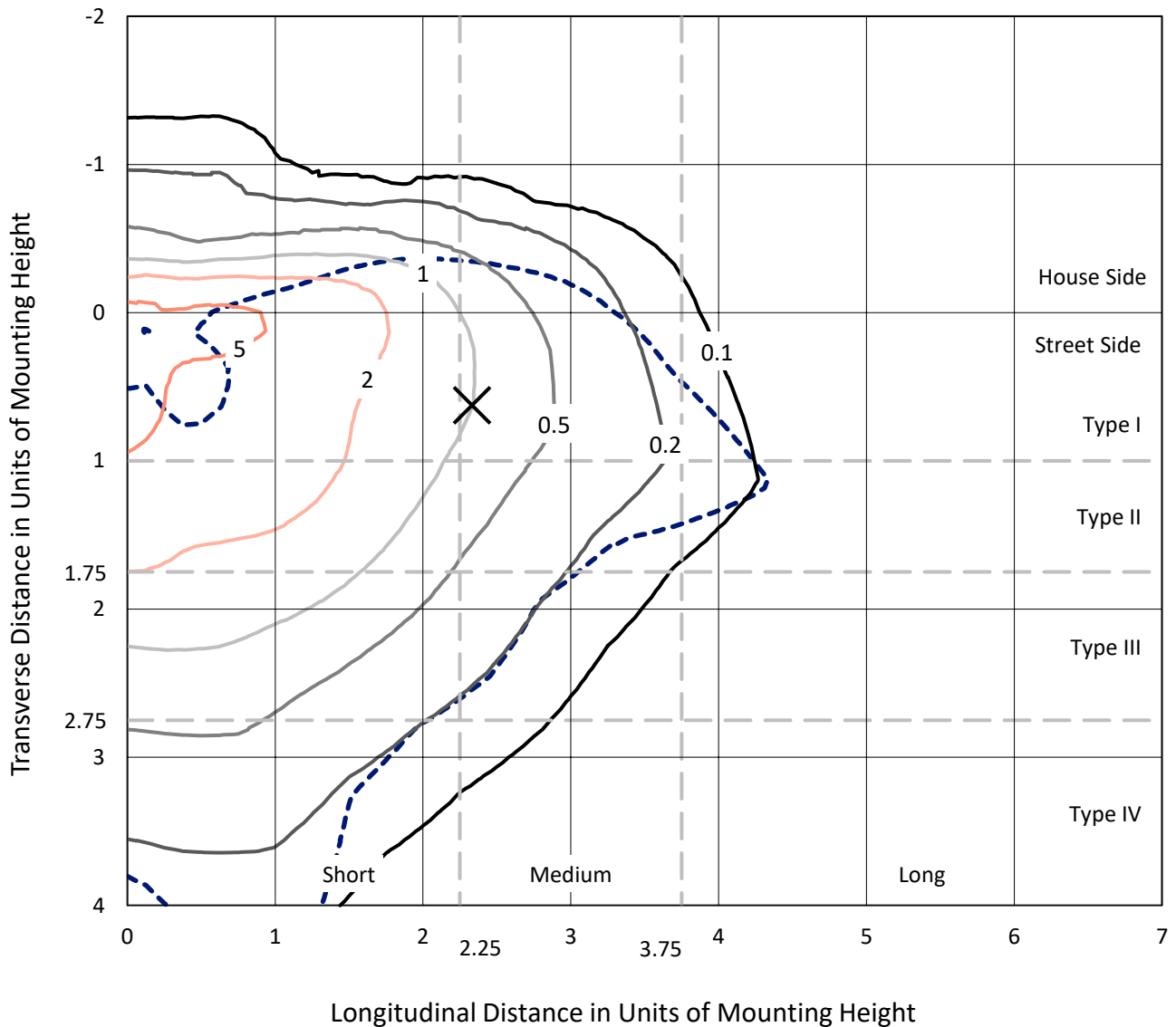
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

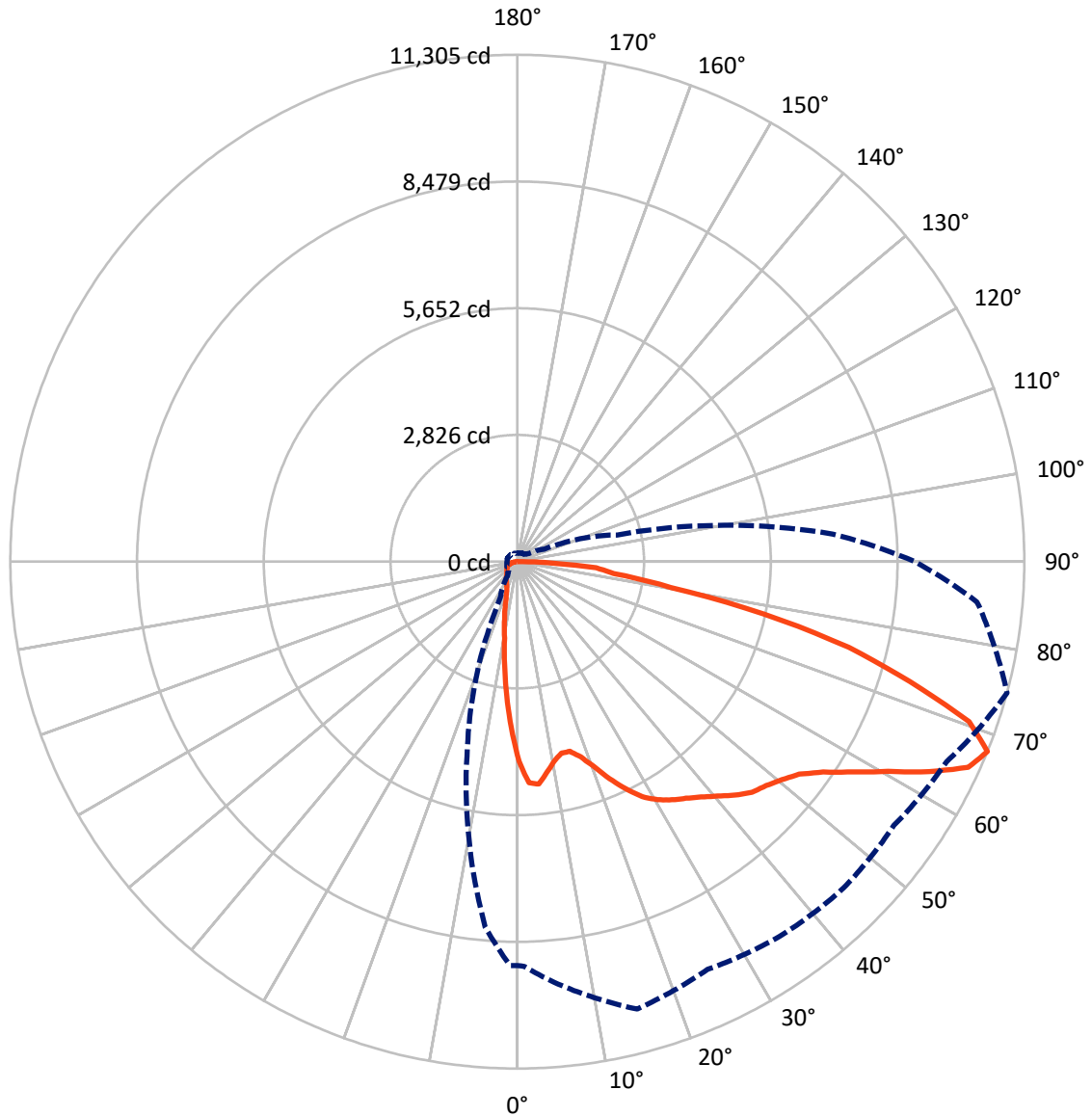
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2410.9	0.0	2410.9
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	11853.1	0.0	11853.1
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	14264.0	0.0	14264.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.0	2.4
10°-20°	704.9	4.9
20°-30°	1014.4	7.1
30°-40°	1461.0	10.2
40°-50°	2052.3	14.4
50°-60°	2862.3	20.1
60°-70°	3403.0	23.9
70°-80°	2004.2	14.1
80°-90°	423.8	3.0
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°	14264.0	100.0
0°-180°	14264.0	100.0

**Coefficient of Utilization**



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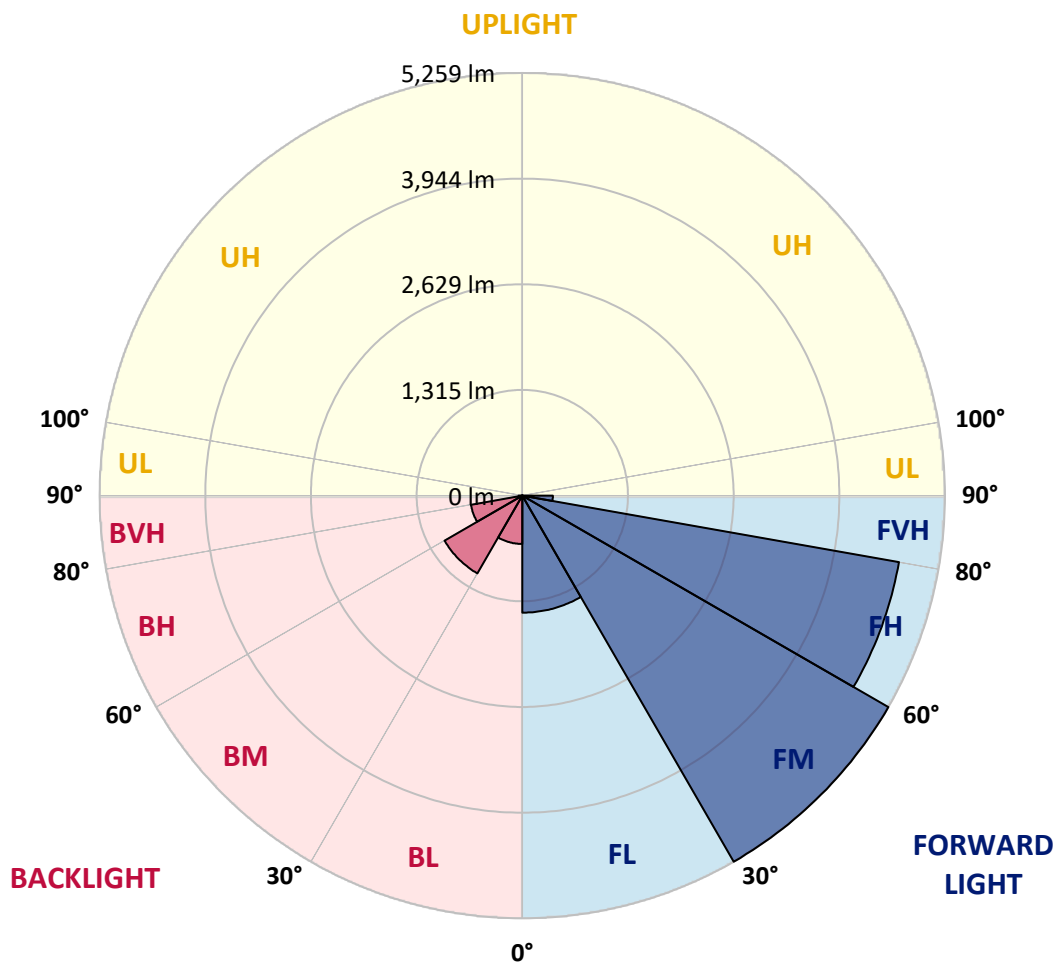
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1456.0	10.2			
FM	(30°-60°)	5258.6	36.9			
FH	(60°-80°)	4758.5	33.4			G2/5000
FVH	(80°-90°)	380.0	2.7			G3/500
BL	(0°-30°)	601.4	4.2	B2/1000		
BM	(30°-60°)	1117.0	7.8	B2/2500		
BH	(60°-80°)	648.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	43.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4
2.5°	4804.9	4811.3	4852.5	4972.3	5054.6	5084.8	5105.8	5066.5	5028.1	4934.8	4793.9
5°	4790.3	4827.8	4934.8	5203.7	5415.9	5507.4	5534.8	5416.8	5222.0	4982.4	4694.2
7.5°	4510.4	4560.7	4725.3	5176.3	5550.4	5764.4	5736.1	5522.9	5171.7	4744.5	4342.1
10°	4178.3	4234.1	4432.6	4977.8	5459.8	5754.4	5754.4	5494.6	5028.1	4520.4	4056.7
12.5°	3914.9	3973.5	4200.3	4773.8	5271.4	5550.4	5597.0	5373.9	4924.7	4378.7	3869.2
15°	3828.0	3884.7	4128.9	4650.3	5072.0	5242.1	5257.7	5184.5	4874.4	4388.7	3860.9
17.5°	3935.9	4009.1	4256.1	4686.9	4889.1	4899.1	4911.0	4968.6	4879.9	4572.6	4027.4
20°	4247.9	4326.5	4584.5	4804.9	4729.0	4624.7	4631.1	4779.3	4944.9	4876.3	4425.3
22.5°	4697.9	4766.5	5030.8	5012.5	4661.3	4446.3	4401.5	4608.3	5040.9	5254.9	4848.8
25°	5183.6	5264.1	5567.8	5320.8	4680.5	4340.2	4311.9	4507.6	5140.6	5608.9	5338.2
27.5°	5739.7	5818.4	6058.0	5631.8	4781.1	4332.0	4298.2	4498.5	5230.2	5936.4	5805.6
30°	6153.2	6225.4	6388.3	5893.4	4904.6	4386.9	4344.8	4570.7	5307.1	6160.5	6261.1
32.5°	6477.9	6552.9	6641.6	6056.2	5067.4	4486.6	4408.8	4702.5	5407.7	6331.5	6598.6
35°	6816.3	6905.1	6898.7	6200.7	5219.3	4601.8	4525.9	4892.7	5565.9	6480.6	7026.7
37.5°	7245.3	7281.0	7235.3	6330.6	5401.3	4809.5	4767.4	5175.4	5791.0	6660.8	7527.1
40°	7680.7	7752.1	7517.0	6488.0	5622.7	5200.1	5195.5	5593.4	6058.0	6872.1	8011.8
42.5°	8053.9	8114.3	7780.4	6625.2	5890.7	5676.6	5711.4	6154.1	6408.4	7117.3	8401.5
45°	8334.7	8388.7	8023.7	6757.8	6243.7	6227.3	6432.2	6755.0	6850.2	7337.7	8630.2
47.5°	8573.5	8625.6	8193.0	6959.0	6680.0	6884.9	7241.7	7381.6	7227.9	7463.9	8886.3
50°	8774.7	8790.3	8309.1	7198.7	7221.5	7690.8	8036.5	8127.1	7601.1	7645.1	9108.6
52.5°	8984.2	8964.0	8509.4	7500.5	7807.0	8455.5	8707.0	8801.2	7958.8	7868.2	9432.4
55°	9453.4	9472.6	8958.6	7881.0	8398.8	9206.4	9537.6	9447.0	8354.9	8278.9	9844.0
57.5°	10020.5	10004.1	9590.6	8476.5	9001.5	9905.3	10152.2	10006.8	8883.6	8843.3	10261.1
60°	10241.0	10262.9	10119.3	9116.8	9596.1	10517.2	10769.7	10543.7	9517.4	9499.1	10575.7
62.5°	10019.6	10143.1	10240.0	9686.7	10102.8	10967.2	11217.9	10959.9	10178.8	10311.4	10796.2
65°	9578.7	9605.2	9935.5	10169.6	10347.1	11041.3	11172.1	11034.9	10731.2	11051.4	10786.1
67.5°	9006.1	9029.0	9415.9	10327.9	10032.4	10199.8	10291.3	10251.0	10560.2	11304.8	10289.4
70°	8461.0	8442.7	8851.5	9924.5	8733.5	8479.3	8555.2	8428.9	9112.2	10685.5	9315.3
72.5°	7399.9	7465.8	7904.8	8803.1	6915.1	6501.7	6667.2	6340.7	7008.4	9151.6	7560.9
75°	5796.4	5812.0	6544.7	7388.0	5216.5	4564.3	4788.4	4652.2	5368.4	7634.1	5221.1
77.5°	4013.7	3978.9	4766.5	5642.8	3720.1	3341.4	3345.1	3280.1	3748.4	5620.8	3547.2
80°	2549.3	2496.2	2983.7	3485.9	2556.6	2734.9	2645.3	2642.6	2440.4	3467.6	2145.0
82.5°	1377.5	1436.1	1885.2	2185.2	1834.0	2113.9	1937.3	1880.6	1674.8	2170.6	1372.0
85°	627.5	682.4	1005.3	1486.4	1393.1	1408.6	941.2	1110.4	1385.8	1762.6	732.7
87.5°	61.3	78.7	207.6	701.6	475.6	375.0	139.9	269.8	348.5	626.6	58.5
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°	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4
2.5°	4736.3	4688.7	4526.8	4393.3	4251.5	4143.6	4002.7	3908.5	3843.6	3745.7	3733.8
5°	4518.6	4402.4	4120.7	3833.5	3585.6	3399.0	3209.7	3035.9	2933.4	2901.4	2860.3
7.5°	4151.8	3956.1	3593.9	3264.6	2980.1	2702.0	2488.0	2336.1	2234.6	2175.2	2103.8
10°	3850.0	3623.1	3182.2	2778.9	2544.7	2371.8	2183.4	2020.6	1895.3	1788.2	1729.7
12.5°	3646.9	3390.8	2895.0	2567.6	2386.4	2202.6	1982.2	1799.2	1614.4	1492.8	1440.7
15°	3585.6	3314.9	2806.3	2462.4	2202.6	1962.0	1715.1	1476.3	1293.4	1178.1	1139.7
17.5°	3735.6	3408.2	2805.4	2322.4	1986.7	1699.5	1383.0	1158.9	971.4	885.4	858.0
20°	4015.5	3587.4	2813.6	2184.3	1752.6	1348.3	1006.2	822.3	732.7	696.1	682.4
22.5°	4406.1	3860.9	2838.3	2048.0	1496.4	1035.4	753.7	660.4	628.4	622.0	619.3
25°	4887.2	4199.4	2921.5	1925.4	1280.6	790.3	630.2	588.2	569.9	563.5	562.5
27.5°	5329.9	4636.6	3022.2	1820.3	1072.0	681.5	569.9	534.2	515.9	515.0	516.8
30°	5729.7	5002.5	3106.3	1702.3	913.8	605.5	530.5	494.9	477.5	476.6	482.0
32.5°	6075.4	5303.4	3168.5	1586.1	826.0	558.9	494.9	456.4	441.8	439.1	441.8
35°	6445.0	5603.4	3140.2	1495.5	775.7	520.5	468.3	430.8	413.4	405.2	405.2
37.5°	6866.6	5912.6	3091.7	1420.5	752.8	488.4	445.5	408.9	391.5	383.3	382.3
40°	7326.7	6221.8	3024.9	1353.8	729.9	469.2	429.9	391.5	370.5	362.2	360.4
42.5°	7732.9	6486.1	2970.0	1309.8	692.4	472.9	416.2	378.7	352.2	341.2	340.3
45°	8085.9	6752.3	2960.0	1284.2	661.3	467.4	412.5	368.6	337.5	325.6	323.8
47.5°	8362.2	7029.5	3017.6	1269.6	627.5	438.1	436.3	362.2	324.7	311.9	310.1
50°	8698.8	7422.8	3149.3	1239.4	596.4	410.7	461.0	361.3	314.7	298.2	293.6
52.5°	9147.0	7935.0	3327.7	1185.4	551.6	385.1	440.0	361.3	302.8	286.3	280.8
55°	9824.8	8588.1	3502.4	1109.5	488.4	351.2	397.0	350.3	285.4	270.8	267.1
57.5°	10273.9	9065.6	3614.0	1004.3	409.8	326.5	342.1	333.0	268.0	252.5	252.5
60°	10296.8	9193.6	3560.9	871.7	360.4	303.7	297.3	335.7	252.5	236.0	234.2
62.5°	10033.3	8879.9	3284.7	752.8	333.9	279.0	268.9	294.5	236.9	220.4	217.7
65°	9621.7	8079.5	2805.4	696.1	319.2	257.0	242.4	241.5	220.4	204.9	201.2
67.5°	8865.3	7060.6	2305.0	663.2	311.9	232.3	218.6	214.0	201.2	188.4	186.6
70°	7750.2	5913.5	1848.6	649.4	308.3	206.7	195.7	190.3	179.3	169.2	168.3
72.5°	6029.7	4796.7	1525.7	640.3	306.4	182.9	171.0	163.7	157.3	148.2	148.2
75°	4331.1	3528.9	1164.4	577.2	283.6	157.3	144.5	139.9	130.8	123.5	125.3
77.5°	2730.4	2376.4	766.5	424.4	219.5	126.2	115.3	112.5	105.2	95.1	101.5
80°	1844.0	1671.2	447.3	267.1	138.1	92.4	88.7	87.8	79.6	68.6	69.5
82.5°	1255.0	1231.2	232.3	151.8	79.6	54.0	52.1	54.0	44.8	36.6	36.6
85°	490.3	669.6	109.8	59.5	25.6	8.2	11.9	12.8	7.3	3.7	4.6
87.5°	9.1	68.6	2.7	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°	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4
2.5°	3715.5	3707.3	3721.0	3662.5	3674.3	3696.3	3707.3	3713.7	3804.2	3783.2	3840.8
5°	2898.7	2890.4	2943.5	2950.8	2978.3	2972.8	2999.3	3005.7	3038.6	3050.5	3131.0
7.5°	2108.4	2144.1	2204.4	2235.5	2282.2	2296.8	2283.1	2316.9	2248.3	2297.7	2312.4
10°	1694.0	1651.0	1625.4	1696.8	1705.9	1773.6	1746.2	1724.2	1764.5	1766.3	1804.7
12.5°	1410.5	1318.1	1256.8	1276.9	1298.9	1328.1	1332.7	1376.6	1405.9	1433.3	1456.2
15°	1105.9	1073.9	1018.1	990.6	1021.7	1033.6	1062.0	1098.6	1129.7	1137.9	1169.0
17.5°	848.8	854.3	845.2	828.7	847.9	857.1	858.9	859.8	868.0	862.6	908.3
20°	683.3	702.5	725.4	729.0	735.4	740.0	731.8	700.7	701.6	720.8	735.4
22.5°	618.3	622.0	647.6	655.8	676.0	667.7	643.9	629.3	627.5	632.1	639.4
25°	567.1	572.6	590.9	603.7	619.3	604.6	587.2	573.5	571.7	576.3	583.6
27.5°	521.4	529.6	546.1	558.9	573.5	559.8	543.3	531.4	530.5	529.6	534.2
30°	484.8	493.9	505.8	520.5	530.5	518.6	503.1	496.7	495.8	493.9	495.8
32.5°	448.2	462.8	474.7	482.0	492.1	483.0	471.1	467.4	461.0	455.5	452.8
35°	407.0	422.6	440.9	450.0	460.1	450.9	442.7	427.2	416.2	415.3	417.1
37.5°	383.3	389.7	404.3	419.8	429.9	425.3	409.8	394.2	391.5	391.5	393.3
40°	362.2	365.0	371.4	391.5	409.8	396.1	376.9	372.3	372.3	371.4	372.3
42.5°	341.2	343.9	343.9	359.5	388.7	366.8	352.2	352.2	352.2	353.1	355.8
45°	322.0	322.9	322.0	333.0	360.4	342.1	332.0	334.8	336.6	338.4	340.3
47.5°	305.5	306.4	305.5	314.7	328.4	321.1	315.6	319.2	322.9	325.6	327.5
50°	290.9	290.0	291.8	297.3	303.7	305.5	301.9	307.3	309.2	312.8	317.4
52.5°	278.1	277.2	279.0	281.7	290.9	290.9	290.9	295.4	299.1	302.8	309.2
55°	263.4	264.3	267.1	270.8	282.6	280.8	281.7	285.4	289.0	294.5	298.2
57.5°	249.7	251.5	255.2	260.7	272.6	271.7	272.6	274.4	279.0	281.7	285.4
60°	234.2	237.8	242.4	246.1	257.9	257.0	261.6	265.3	268.0	268.0	269.8
62.5°	218.6	224.1	228.7	231.4	244.2	245.1	251.5	254.3	256.1	254.3	257.0
65°	203.1	211.3	213.1	216.8	229.6	230.5	237.8	244.2	242.4	240.6	245.1
67.5°	187.5	197.6	196.7	201.2	214.0	215.9	222.3	233.2	229.6	227.8	231.4
70°	170.1	177.5	178.4	181.1	198.5	195.7	205.8	215.9	213.1	214.0	214.0
72.5°	150.9	157.3	157.3	162.8	181.1	176.5	184.8	195.7	195.7	194.8	194.8
75°	128.1	131.7	135.4	143.6	162.8	157.3	162.8	172.9	174.7	172.9	172.9
77.5°	103.4	108.8	110.7	121.7	135.4	134.5	139.9	144.5	148.2	146.4	146.4
80°	73.2	78.7	86.0	97.9	106.1	108.8	111.6	115.3	117.1	117.1	118.9
82.5°	41.2	49.4	55.8	67.7	71.3	85.1	84.2	86.9	84.2	74.1	82.3
85°	9.1	17.4	24.7	31.1	35.7	49.4	52.1	58.5	48.5	44.8	44.8
87.5°	0.0	0.0	0.0	0.0	0.0	7.3	14.6	20.1	17.4	14.6	14.6
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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 CATALOG NUMBER: GALN-SA4B-722-U-SLL

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4	4456.4
2.5°	3889.3	3968.9	4064.9	4230.5	4346.6	4472.0	4598.2	4732.7	4768.3	4804.9
5°	3153.0	3309.4	3394.4	3616.7	3850.0	4146.3	4388.7	4654.0	4764.7	4790.3
7.5°	2388.3	2494.4	2717.6	2942.6	3231.6	3542.6	3914.0	4327.4	4456.4	4510.4
10°	1893.4	2037.9	2233.7	2475.2	2728.5	3063.3	3482.3	3965.2	4148.2	4178.3
12.5°	1611.7	1772.7	1985.8	2241.0	2480.7	2733.1	3155.7	3654.2	3850.0	3914.9
15°	1288.8	1483.6	1729.7	1998.6	2259.3	2535.5	2963.6	3526.2	3752.1	3828.0
17.5°	1012.6	1169.9	1436.1	1727.9	2037.0	2386.4	2923.4	3587.4	3865.5	3935.9
20°	774.7	887.3	1111.4	1419.6	1781.8	2239.2	2933.4	3818.9	4151.8	4247.9
22.5°	669.6	727.2	863.5	1157.1	1562.3	2111.1	2974.6	4136.3	4537.8	4697.9
25°	606.4	636.6	713.5	905.6	1352.8	1986.7	3068.8	4563.4	5077.5	5183.6
27.5°	552.5	574.4	622.0	760.1	1162.6	1871.5	3178.6	5037.2	5581.5	5739.7
30°	501.3	530.5	575.3	675.0	1040.9	1766.3	3316.7	5421.4	6005.9	6153.2
32.5°	461.9	491.2	532.4	615.6	937.6	1655.6	3399.0	5758.9	6352.6	6477.9
35°	429.9	454.6	497.6	568.0	858.9	1571.5	3382.6	6026.9	6688.3	6816.3
37.5°	407.0	428.1	471.1	523.2	799.4	1483.6	3374.3	6380.9	7097.1	7245.3
40°	386.0	408.0	447.3	493.9	740.0	1380.3	3378.9	6732.2	7532.5	7680.7
42.5°	369.5	394.2	426.2	485.7	678.7	1297.0	3378.9	7037.7	7911.2	8053.9
45°	355.8	382.3	413.4	484.8	630.2	1233.9	3356.0	7300.2	8213.1	8334.7
47.5°	343.9	373.2	418.0	468.3	618.3	1188.2	3335.9	7510.6	8459.1	8573.5
50°	335.7	370.5	444.5	449.1	622.0	1174.5	3432.9	7775.9	8675.9	8774.7
52.5°	329.3	371.4	443.6	420.8	615.6	1183.6	3635.0	8190.2	8976.9	8984.2
55°	316.5	370.5	420.8	388.7	589.1	1199.2	3894.8	8792.1	9447.9	9453.4
57.5°	303.7	360.4	390.6	361.3	535.1	1199.2	4207.6	9361.9	10015.9	10020.5
60°	290.9	375.0	343.0	337.5	464.7	1177.2	4537.8	9612.6	10194.3	10241.0
62.5°	278.1	377.8	306.4	316.5	413.4	1124.2	4783.9	9335.4	9952.8	10019.6
65°	263.4	304.6	282.6	294.5	386.9	1035.4	4706.1	8827.8	9499.1	9578.7
67.5°	246.1	257.9	257.0	271.7	377.8	904.6	4296.3	8185.6	9010.7	9006.1
70°	225.0	231.4	234.2	249.7	360.4	803.1	3580.1	7352.3	8358.5	8461.0
72.5°	203.1	208.6	211.3	225.0	343.0	745.5	2778.9	6204.4	7239.8	7399.9
75°	179.3	182.9	186.6	198.5	324.7	660.4	1979.4	4736.3	5544.9	5796.4
77.5°	154.6	154.6	159.2	171.0	273.5	545.2	1328.1	3322.2	3756.7	4013.7
80°	125.3	126.2	124.4	137.2	201.2	373.2	754.6	2219.1	2499.9	2549.3
82.5°	96.0	93.3	94.2	100.6	150.0	254.3	402.5	1378.5	1405.0	1377.5
85°	60.4	60.4	58.5	65.9	96.0	132.6	219.5	844.3	659.5	627.5
87.5°	24.7	20.1	22.9	26.5	45.7	54.0	86.0	173.8	66.8	61.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)