

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: P455975

Luminaire Tested: **GALN-SA7B-722-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455975  
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-SA7B-722-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 20923 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

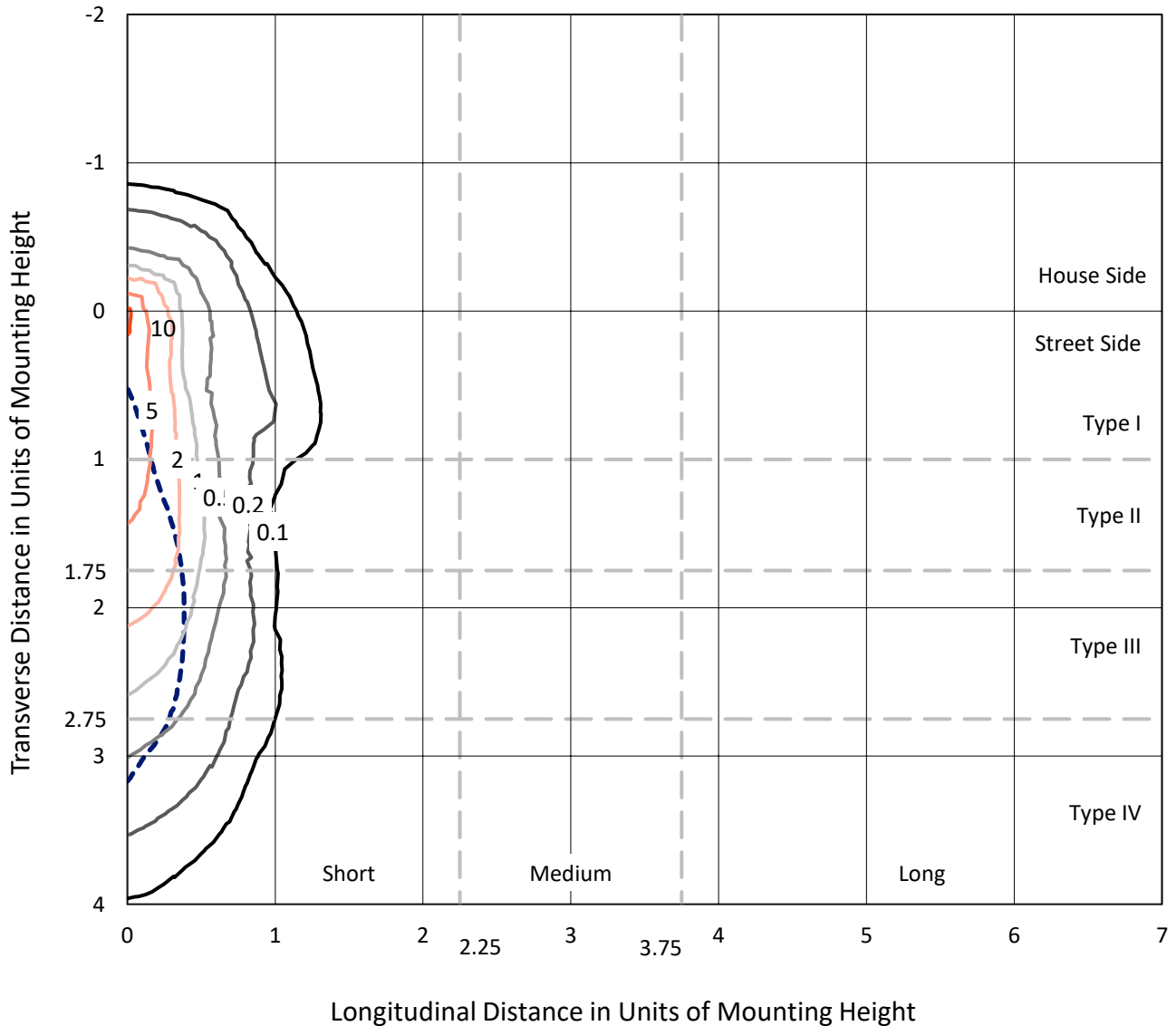
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

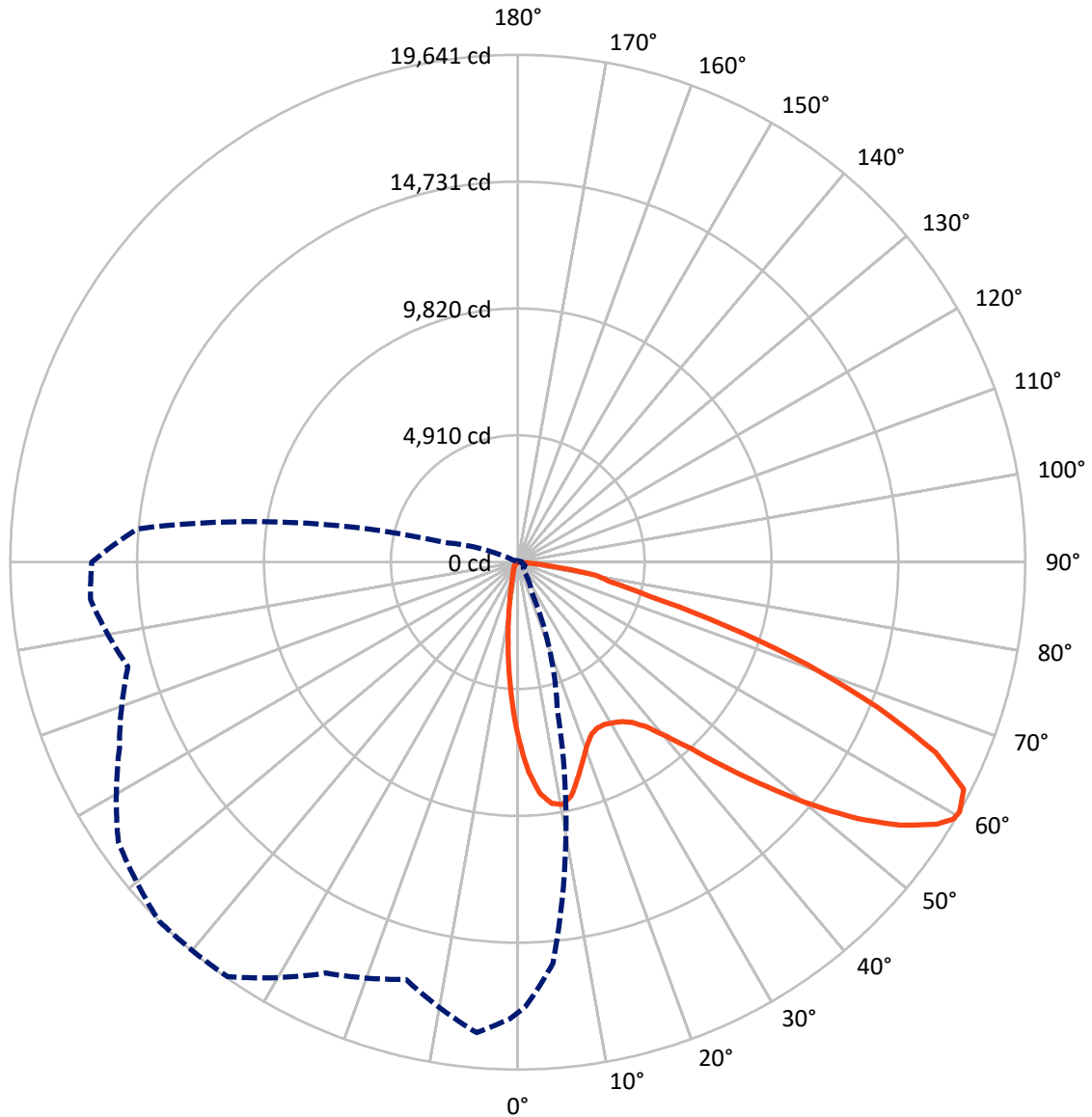
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	2580.6	0.0	2580.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	18342.4	0.0	18342.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	20923.0	0.0	20923.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.3	2.5
10°-20°	1021.5	4.9
20°-30°	1497.8	7.2
30°-40°	2227.5	10.6
40°-50°	3241.6	15.5
50°-60°	4674.7	22.3
60°-70°	5141.7	24.6
70°-80°	2303.0	11.0
80°-90°	300.9	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°	20923.0	100.0
0°-180°	20923.0	100.0

**Coefficient of Utilization**



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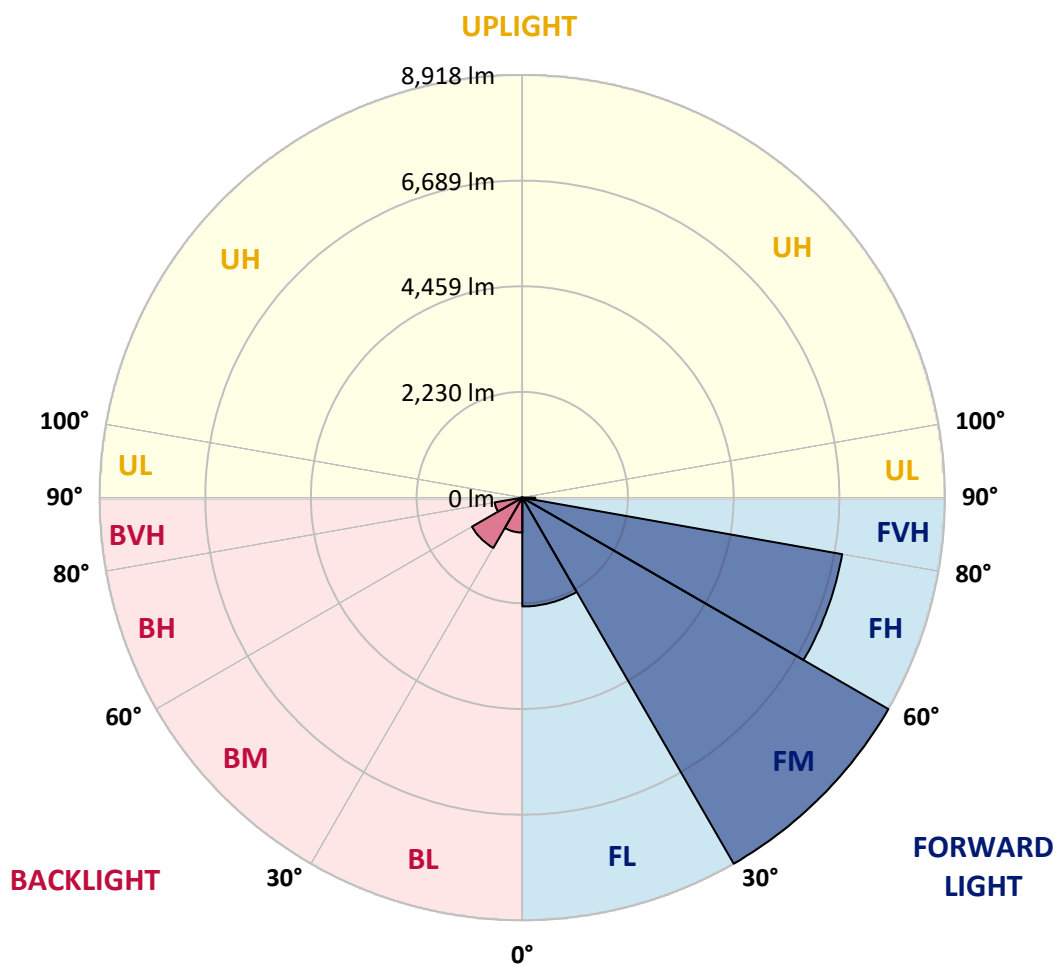
CATALOG NUMBER: GALN-SA7B-722-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2296.2	11.0			
FM	(30°-60°)	8918.0	42.6			
FH	(60°-80°)	6852.9	32.8			G3/7500
FVH	(80°-90°)	275.2	1.3			G3/500
BL	(0°-30°)	737.4	3.5	B2/1000		
BM	(30°-60°)	1225.7	5.9	B2/2500		
BH	(60°-80°)	591.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	25.7	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4
2.5°	7602.4	7569.0	7492.7	7260.5	7058.5	6794.5	6527.3	6317.3	6188.5	5951.5	5843.4
5°	7365.5	7381.4	7160.3	6683.1	6151.9	5789.3	5393.3	5078.4	4731.6	4512.2	4281.5
7.5°	6746.8	6715.0	6474.8	5810.0	5164.2	4639.4	4138.4	3731.2	3475.2	3270.0	3098.2
10°	6217.1	6193.3	5886.3	5030.6	4337.2	3944.4	3605.6	3249.3	2974.2	2673.6	2433.4
12.5°	5884.7	5830.7	5477.6	4583.7	4019.1	3653.3	3284.3	2913.7	2533.6	2229.8	1938.8
15°	5773.4	5695.5	5302.6	4429.5	3815.5	3351.1	2888.3	2462.0	2024.7	1689.1	1469.6
17.5°	5975.4	5846.6	5428.3	4402.4	3572.2	2956.7	2387.3	1832.2	1377.3	1121.3	986.1
20°	6438.2	6290.3	5746.4	4375.4	3301.8	2514.5	1814.7	1294.6	952.7	812.7	738.0
22.5°	7125.3	6921.7	6217.1	4418.3	3052.1	2083.5	1310.5	914.5	757.1	669.6	617.1
25°	7950.7	7780.6	6813.6	4571.0	2854.9	1744.7	1013.1	747.5	637.8	583.7	543.9
27.5°	8855.7	8583.8	7584.9	4753.9	2675.2	1482.3	889.1	668.0	567.8	518.5	497.8
30°	9499.9	9288.3	8230.7	4881.1	2450.9	1285.1	812.7	658.5	569.4	510.5	472.4
32.5°	10136.0	9865.7	8771.4	4940.0	2287.1	1148.3	703.0	574.2	499.4	469.2	431.0
35°	10816.8	10533.7	9310.6	4908.2	2164.6	1057.7	637.8	512.1	427.8	376.9	338.8
37.5°	11505.4	11206.4	9846.6	4793.7	2088.3	1021.1	586.9	486.7	404.0	351.5	310.1
40°	12322.9	11923.7	10349.2	4699.8	2008.8	1002.0	553.5	470.8	386.5	330.8	289.5
42.5°	12990.9	12610.8	10824.7	4650.5	1954.7	957.5	553.5	458.1	375.4	313.3	270.4
45°	13623.9	13229.5	11338.4	4690.3	1932.4	901.8	559.8	456.5	367.4	300.6	257.7
47.5°	14153.6	13811.6	11866.5	4839.8	1903.8	841.4	526.4	478.7	362.6	289.5	244.9
50°	14778.6	14447.8	12564.7	5142.0	1852.9	780.9	485.1	515.3	361.0	279.9	233.8
52.5°	15659.7	15301.9	13528.5	5485.5	1771.8	688.7	446.9	510.5	354.7	264.0	222.7
55°	16736.5	16447.0	14645.0	5897.5	1660.4	585.3	386.5	453.3	335.6	237.0	203.6
57.5°	17426.7	17180.2	15481.6	6075.6	1490.3	478.7	340.4	380.1	307.0	211.5	181.3
59°	17507.9	17285.2	15656.6	6016.7	1378.9	437.4	318.1	326.0	299.0	197.2	168.6
60°	17439.5	17208.9	15586.6	5902.2	1275.6	408.8	299.0	289.5	300.6	189.3	159.0
62.5°	17000.5	16606.1	14907.4	5321.7	1114.9	375.4	265.6	237.0	265.6	170.2	141.6
65°	16152.8	15561.1	13563.5	4504.2	1051.3	356.3	225.8	198.8	202.0	149.5	122.5
67.5°	14672.1	13926.1	11774.2	3659.7	1024.3	357.9	190.9	178.1	155.9	127.2	108.2
70°	12330.9	11586.6	9447.4	3010.8	1011.5	357.9	162.2	152.7	130.4	106.6	93.8
72.5°	8738.0	7936.4	6373.0	2365.0	911.3	356.3	138.4	138.4	106.6	89.1	76.3
75°	4936.8	4943.2	4006.4	1673.2	757.1	294.2	111.3	109.7	77.9	68.4	57.3
77.5°	2877.2	2826.3	2700.6	718.9	351.5	133.6	77.9	66.8	54.1	49.3	41.4
80°	1479.1	1216.7	1184.9	260.8	125.6	84.3	54.1	38.2	35.0	31.8	28.6
82.5°	437.4	439.0	391.3	105.0	70.0	55.7	27.0	20.7	19.1	17.5	17.5
85°	30.2	19.1	22.3	31.8	42.9	22.3	1.6	4.8	4.8	6.4	8.0
87.5°	3.2	1.6	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°	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4
2.5°	5724.1	5794.1	5663.7	5666.8	5558.7	5593.7	5466.4	5507.8	5433.0	5490.3	5658.9
5°	4307.0	4322.9	4217.9	4184.5	4200.4	4265.6	4291.1	4175.0	4224.3	4127.3	4120.9
7.5°	3034.6	3053.7	2993.3	2985.3	3099.8	3072.8	3122.1	3002.8	2889.9	2939.2	2848.5
10°	2357.1	2277.5	2153.5	2118.5	2096.2	2110.5	2110.5	2002.4	1986.5	1943.6	2008.8
12.5°	1860.8	1763.8	1646.1	1487.1	1447.3	1444.1	1385.3	1289.9	1259.6	1223.1	1277.1
15°	1351.9	1312.1	1213.5	1124.5	1033.8	1016.3	920.9	842.9	739.6	725.3	720.5
17.5°	951.1	892.3	890.7	839.8	787.3	752.3	663.2	574.2	534.4	529.6	529.6
20°	712.5	691.9	658.5	652.1	636.2	596.4	516.9	469.2	450.1	451.7	458.1
22.5°	599.6	585.3	555.1	540.8	534.4	499.4	440.6	408.8	399.2	399.2	400.8
25°	536.0	523.3	489.9	467.6	459.6	434.2	388.1	364.2	356.3	356.3	356.3
27.5°	488.3	472.4	437.4	418.3	404.0	375.4	346.7	322.9	314.9	314.9	316.5
30°	454.9	437.4	405.6	380.1	357.9	332.4	308.6	287.9	278.3	276.7	278.3
32.5°	410.3	394.4	362.6	346.7	321.3	291.1	272.0	252.9	243.3	244.9	243.3
35°	319.7	314.9	292.6	297.4	283.1	257.7	240.2	219.5	208.4	206.8	209.9
37.5°	291.1	272.0	246.5	248.1	243.3	233.8	205.2	182.9	175.0	175.0	176.5
40°	268.8	249.7	221.1	206.8	208.4	208.4	178.1	154.3	146.3	144.7	147.9
42.5°	249.7	230.6	198.8	175.0	168.6	176.5	151.1	127.2	119.3	116.1	119.3
45°	237.0	216.3	179.7	152.7	133.6	143.1	124.1	105.0	95.4	95.4	93.8
47.5°	224.3	205.2	165.4	132.0	111.3	106.6	101.8	84.3	74.8	73.2	74.8
50°	213.1	194.0	149.5	114.5	93.8	82.7	82.7	66.8	60.4	57.3	58.8
52.5°	202.0	181.3	135.2	101.8	81.1	66.8	58.8	54.1	49.3	47.7	49.3
55°	186.1	165.4	120.9	87.5	70.0	55.7	46.1	44.5	41.4	38.2	41.4
57.5°	167.0	147.9	106.6	74.8	55.7	42.9	38.2	36.6	33.4	31.8	31.8
59°	155.9	138.4	98.6	65.2	49.3	38.2	35.0	33.4	30.2	27.0	28.6
60°	149.5	135.2	93.8	60.4	44.5	35.0	31.8	30.2	27.0	25.4	27.0
62.5°	132.0	120.9	82.7	49.3	35.0	25.4	22.3	23.9	22.3	20.7	22.3
65°	116.1	106.6	70.0	38.2	27.0	17.5	15.9	20.7	19.1	17.5	19.1
67.5°	103.4	92.2	58.8	28.6	19.1	9.5	11.1	17.5	17.5	15.9	17.5
70°	89.1	79.5	47.7	20.7	9.5	4.8	8.0	12.7	15.9	14.3	15.9
72.5°	73.2	62.0	36.6	14.3	4.8	0.0	4.8	11.1	15.9	14.3	15.9
75°	57.3	46.1	27.0	8.0	0.0	0.0	1.6	9.5	15.9	14.3	15.9
77.5°	41.4	33.4	15.9	1.6	0.0	0.0	1.6	9.5	15.9	14.3	15.9
80°	27.0	23.9	6.4	0.0	0.0	0.0	1.6	9.5	15.9	15.9	17.5
82.5°	17.5	12.7	0.0	0.0	0.0	0.0	3.2	12.7	17.5	19.1	19.1
85°	8.0	0.0	0.0	0.0	0.0	0.0	6.4	15.9	20.7	20.7	20.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	11.1	19.1	23.9	23.9	23.9
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°	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4
2.5°	5687.5	5787.7	5929.3	6147.2	6323.7	6602.0	6815.2	7106.2	7400.4	7489.5	7627.9
5°	4186.1	4314.9	4636.2	4928.9	5113.4	5701.8	6074.0	6660.9	7187.3	7440.2	7715.4
7.5°	2907.4	3060.1	3305.0	3713.7	4101.8	4580.5	5181.7	5852.9	6624.3	6985.3	7373.4
10°	2040.6	2231.4	2576.6	2912.1	3400.4	3855.3	4448.5	5189.7	6040.6	6466.8	6953.5
12.5°	1288.3	1458.5	1914.9	2291.9	2901.0	3429.0	3976.2	4647.3	5633.4	6070.8	6581.4
15°	736.4	879.5	1092.7	1576.2	2252.1	2950.3	3632.6	4412.0	5425.1	5964.3	6516.1
17.5°	548.7	586.9	682.3	955.9	1571.4	2387.3	3316.1	4340.4	5566.6	6199.6	6829.5
20°	461.2	486.7	531.2	639.4	1002.0	1838.6	3007.6	4353.1	6024.7	6819.9	7417.9
22.5°	413.5	429.4	466.0	536.0	683.9	1339.2	2646.5	4427.9	6579.8	7581.8	8272.0
25°	362.6	383.3	415.1	475.5	569.4	928.8	2290.3	4594.9	7357.5	8548.8	9197.7
27.5°	322.9	342.0	373.8	429.4	499.4	709.3	1875.2	4738.0	8178.2	9522.1	10053.3
30°	283.1	302.2	334.0	378.5	442.1	574.2	1428.2	4822.3	8975.0	10252.2	10660.9
32.5°	249.7	265.6	295.8	335.6	388.1	486.7	1126.1	4734.8	9584.2	10915.4	11188.9
35°	216.3	235.4	260.8	297.4	343.5	415.1	936.8	4432.6	10107.4	11597.7	11696.3
37.5°	181.3	203.6	230.6	264.0	300.6	381.7	752.3	4098.6	10667.3	12448.6	12286.4
40°	152.7	173.4	198.8	235.4	268.8	349.9	578.9	3742.4	11271.6	13247.0	12930.5
42.5°	124.1	146.3	176.5	209.9	265.6	305.4	448.5	3373.4	11814.0	13942.0	13512.6
45°	98.6	117.7	149.5	192.4	264.0	262.4	346.7	3009.2	12222.7	14438.3	13946.8
47.5°	77.9	93.8	125.6	187.7	243.3	222.7	278.3	2783.3	12652.2	14885.2	14279.2
50°	62.0	77.9	108.2	195.6	213.1	190.9	233.8	2819.9	13067.3	15112.6	14416.0
52.5°	52.5	68.4	93.8	154.3	163.8	167.0	205.2	2988.5	13603.3	15356.0	14688.0
55°	46.1	60.4	79.5	108.2	127.2	149.5	187.7	3111.0	14320.6	15877.6	15287.6
57.5°	36.6	52.5	71.6	92.2	105.0	130.4	173.4	3120.5	14969.5	16547.2	16084.4
59°	33.4	47.7	66.8	87.5	93.8	117.7	163.8	3039.4	14993.3	16647.4	16450.2
60°	30.2	46.1	63.6	81.1	89.1	111.3	155.9	2945.5	14777.0	16488.4	16601.3
62.5°	25.4	39.8	55.7	65.2	76.3	92.2	135.2	2605.2	13728.9	15767.9	16321.4
65°	22.3	35.0	47.7	54.1	63.6	79.5	119.3	2085.1	12571.1	14791.3	15519.8
67.5°	20.7	31.8	41.4	46.1	55.7	73.2	106.6	1472.8	11071.2	13552.4	14315.8
70°	19.1	30.2	36.6	42.9	49.3	62.0	90.7	858.9	8528.1	11379.8	12186.2
72.5°	19.1	28.6	31.8	36.6	42.9	55.7	84.3	464.4	5830.7	8680.8	9722.5
75°	19.1	27.0	28.6	31.8	38.2	50.9	74.8	243.3	3769.4	6031.1	7443.4
77.5°	19.1	25.4	28.6	30.2	36.6	44.5	65.2	152.7	2511.3	4224.3	5030.6
80°	20.7	25.4	27.0	30.2	35.0	41.4	54.1	101.8	1476.0	2541.6	3061.6
82.5°	22.3	25.4	28.6	31.8	36.6	39.8	47.7	63.6	680.7	1681.1	1902.2
85°	23.9	27.0	30.2	33.4	38.2	39.8	44.5	46.1	111.3	758.7	1025.9
87.5°	25.4	28.6	31.8	35.0	41.4	41.4	41.4	41.4	38.2	81.1	206.8
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: P455975

CATALOG NUMBER: GALN-SA7B-722-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4	6915.4
2.5°	7802.8	7982.6	8108.2	8140.0	8049.4	8008.0	7893.5	7715.4	7607.2	7602.4
5°	8222.7	8644.2	8936.8	8986.1	8811.2	8515.4	8163.9	7710.6	7445.0	7365.5
7.5°	8151.1	8889.1	9359.9	9428.3	9134.1	8569.4	7888.7	7158.7	6869.2	6746.8
10°	7856.9	8757.1	9429.9	9538.0	9145.2	8350.0	7484.7	6670.4	6311.0	6217.1
12.5°	7605.6	8515.4	9113.4	9262.9	8965.5	8171.8	7243.0	6357.1	5972.2	5884.7
15°	7495.9	8229.1	8594.9	8671.2	8621.9	8060.5	7217.5	6309.4	5868.8	5773.4
17.5°	7605.6	7985.7	8031.9	8109.8	8219.5	8049.4	7462.5	6568.6	6093.1	5975.4
20°	7893.5	7774.2	7583.3	7616.7	7868.0	8095.5	7898.3	7142.8	6563.9	6438.2
22.5°	8383.4	7721.7	7289.1	7260.5	7578.6	8249.8	8537.6	7920.5	7249.3	7125.3
25°	8984.5	7853.7	7181.0	7118.9	7465.7	8475.6	9232.7	8873.2	8140.0	7950.7
27.5°	9639.8	8127.3	7181.0	7120.5	7456.1	8676.0	9827.5	9716.2	9062.5	8855.7
30°	9999.3	8353.1	7284.3	7215.9	7573.8	8792.1	10145.6	10465.3	9755.9	9499.9
32.5°	10320.5	8666.5	7486.3	7357.5	7820.3	8963.9	10430.3	11101.5	10307.8	10136.0
35°	10616.4	9002.0	7764.7	7615.2	8144.8	9199.3	10745.2	11769.5	11076.0	10816.8
37.5°	10942.4	9391.7	8198.9	8071.6	8687.1	9657.3	11119.0	12647.4	11831.5	11505.4
40°	11297.1	9843.4	8913.0	8858.9	9549.2	10175.8	11591.3	13584.2	12693.5	12322.9
42.5°	11658.1	10363.5	9787.7	9876.8	10525.7	10902.7	12076.4	14304.7	13399.7	12990.9
45°	11985.8	11028.3	10924.9	11365.5	11664.5	11612.0	12435.9	14812.0	14015.2	13623.9
47.5°	12399.3	11996.9	12300.7	12979.8	12987.8	12383.4	12707.8	15227.1	14544.8	14153.6
50°	12862.1	13140.4	14077.2	14769.1	14583.0	13142.0	13025.9	15718.6	15091.9	14778.6
52.5°	13398.1	14420.8	15718.6	16486.8	16052.6	13969.1	13555.6	16249.8	15960.3	15659.7
55°	14021.6	15293.9	17355.2	17967.5	17530.1	14996.5	14360.3	16970.3	16941.7	16736.5
57.5°	14726.1	16216.4	18303.1	19131.7	18742.1	16202.1	15484.8	17649.4	17541.3	17426.7
59°	15282.8	16690.4	18721.4	19580.2	19344.9	17046.6	16240.3	18072.5	17679.6	17507.9
60°	15620.0	17011.6	18875.7	19640.7	19586.6	17549.2	16719.0	18279.2	17678.0	17439.5
62.5°	16620.4	17573.1	18816.8	19371.9	19583.4	18513.0	18123.4	18506.7	17350.4	17000.5
65°	16976.6	17387.0	17841.9	17773.5	17954.8	18463.7	19020.4	18257.0	16650.6	16152.8
67.5°	16283.2	15346.4	15507.1	15050.6	14961.5	16415.2	18656.2	17035.5	15281.2	14672.1
70°	13725.7	11756.7	11675.6	11885.6	11309.8	13289.9	16752.4	14683.2	13021.2	12330.9
72.5°	10804.0	8308.6	7624.7	8397.7	8380.2	10139.2	13916.6	10419.1	8796.9	8738.0
75°	8496.3	5784.5	5076.8	5202.4	5444.2	7340.0	11084.0	6616.3	5417.1	4936.8
77.5°	5703.4	4098.6	3823.5	3669.2	3930.0	4712.6	7012.4	3588.1	3037.8	2877.2
80°	3287.5	2977.4	3381.3	3069.6	3209.6	2969.4	3487.9	1646.1	1366.2	1479.1
82.5°	2139.2	1695.4	1806.8	1342.4	1835.4	1851.3	1119.7	486.7	411.9	437.4
85°	1337.6	795.2	446.9	318.1	633.0	1164.2	349.9	30.2	35.0	30.2
87.5°	346.7	132.0	55.7	82.7	101.8	90.7	81.1	4.8	1.6	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)