

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: P455743

Luminaire Tested: **GALN-SA7A-722-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455743  
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-SA7A-722-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 615mA 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: 16816 lumens  
Efficiency: N/A  
Efficacy: 78.2 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

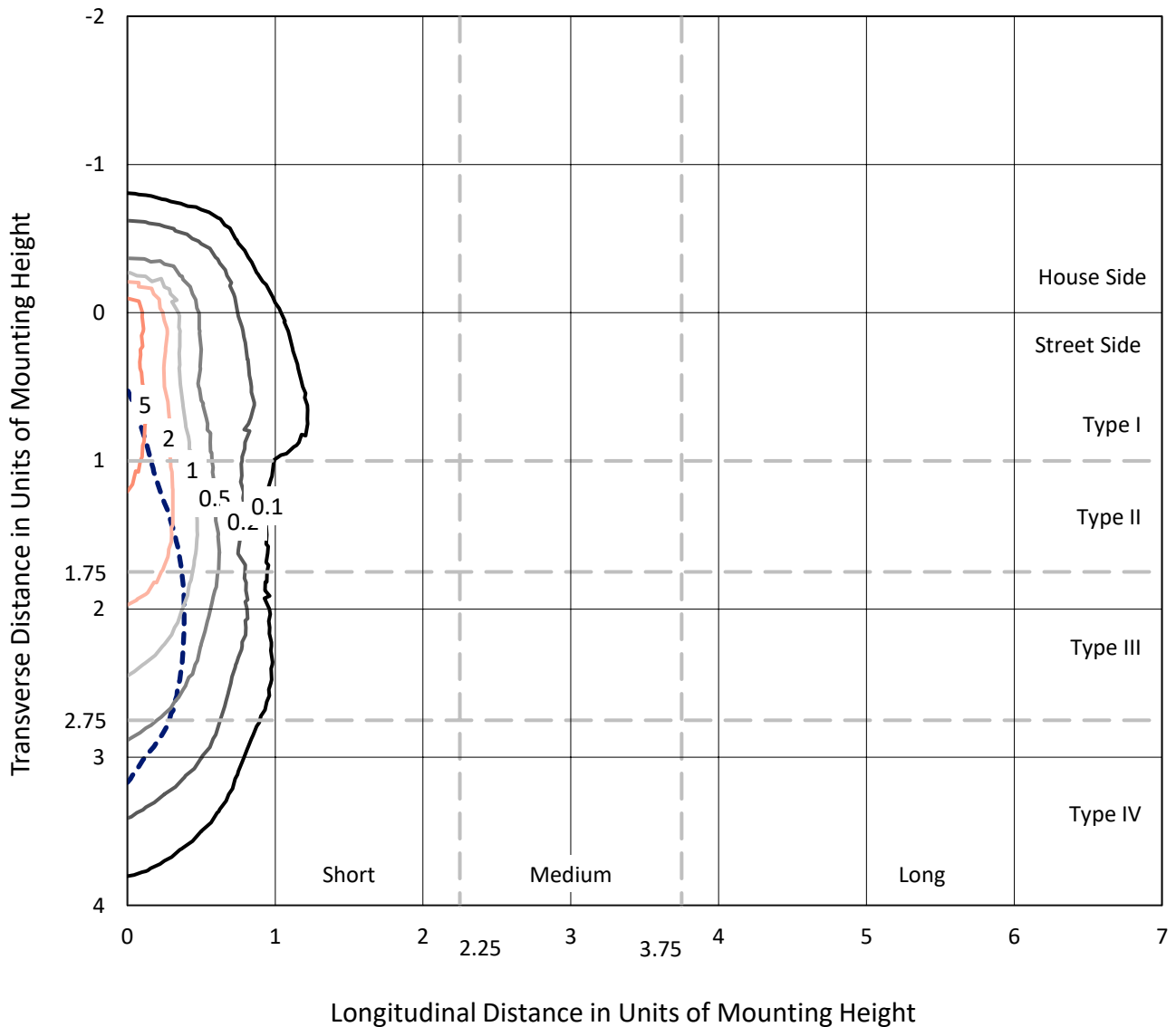
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

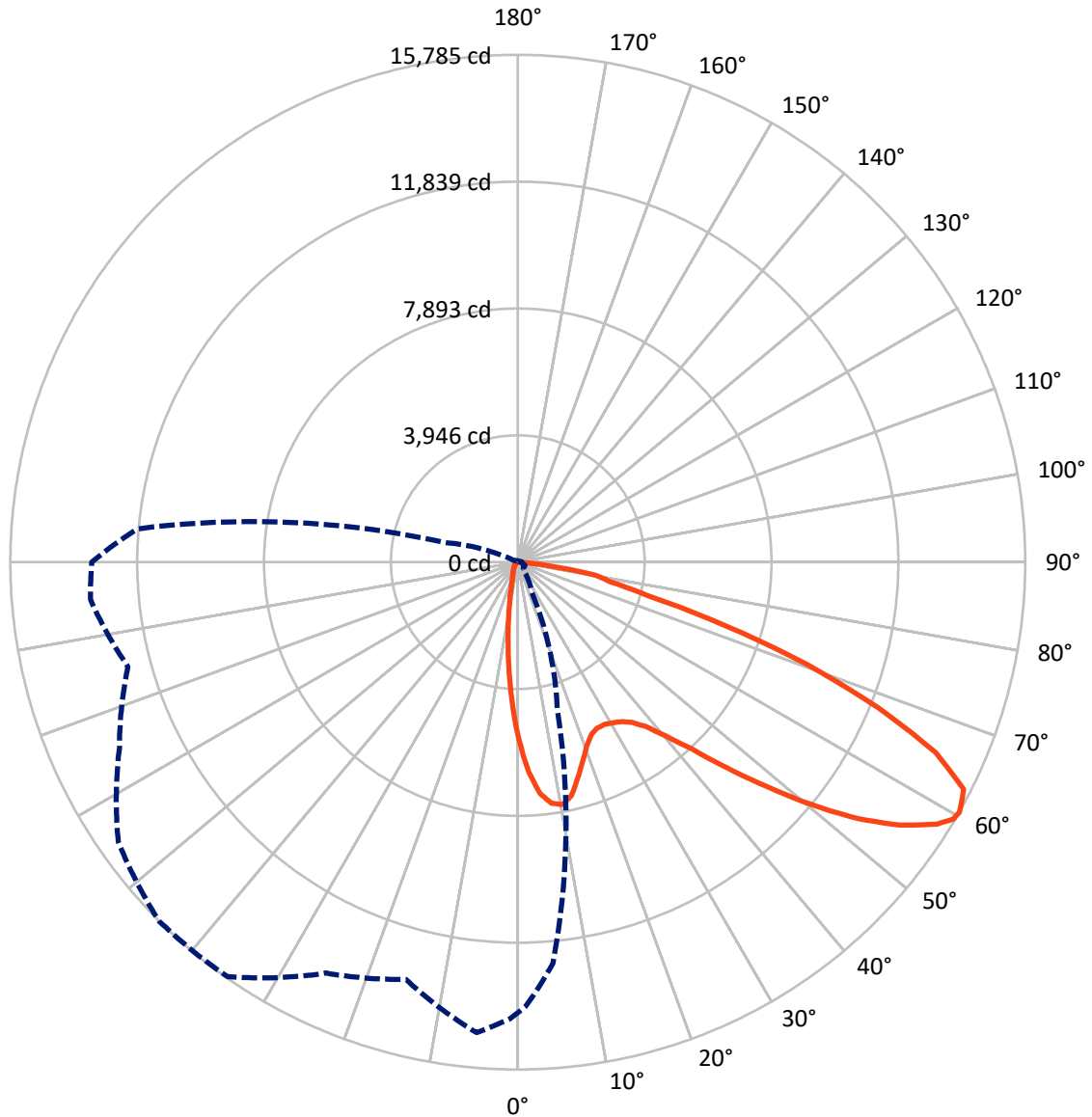
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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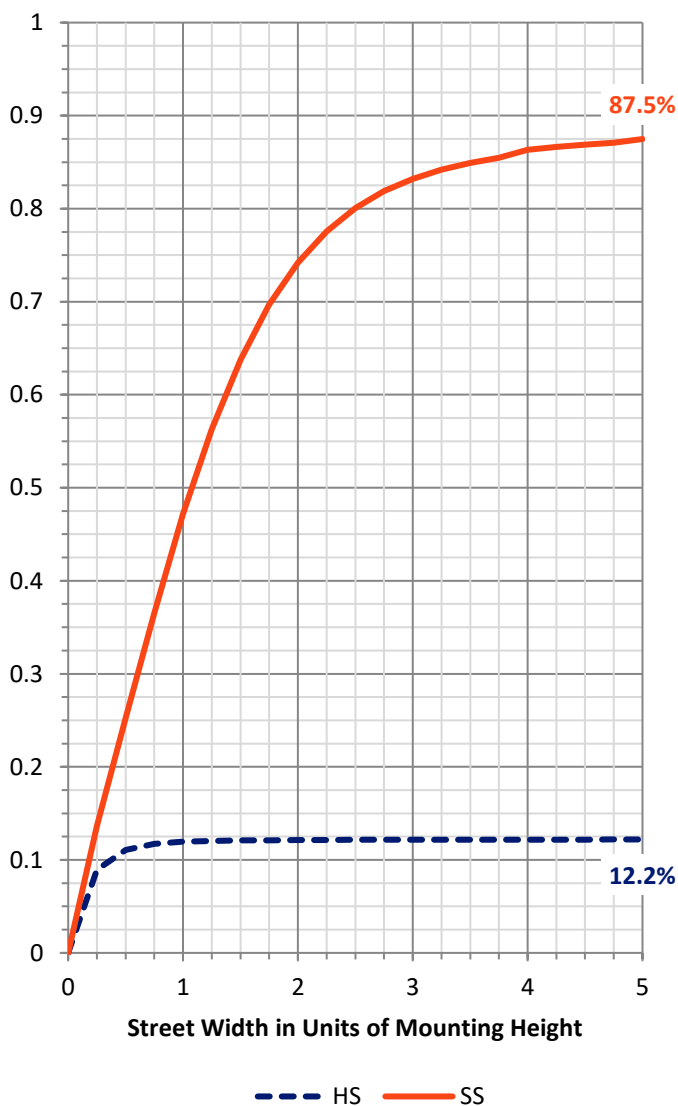
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2074.1	0.0	2074.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	14741.9	0.0	14741.9
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	16816.0	0.0	16816.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.4	2.5
10°-20°	821.0	4.9
20°-30°	1203.8	7.2
30°-40°	1790.2	10.6
40°-50°	2605.3	15.5
50°-60°	3757.1	22.3
60°-70°	4132.4	24.6
70°-80°	1851.0	11.0
80°-90°	241.9	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°	16816.0	100.0
0°-180°	16816.0	100.0



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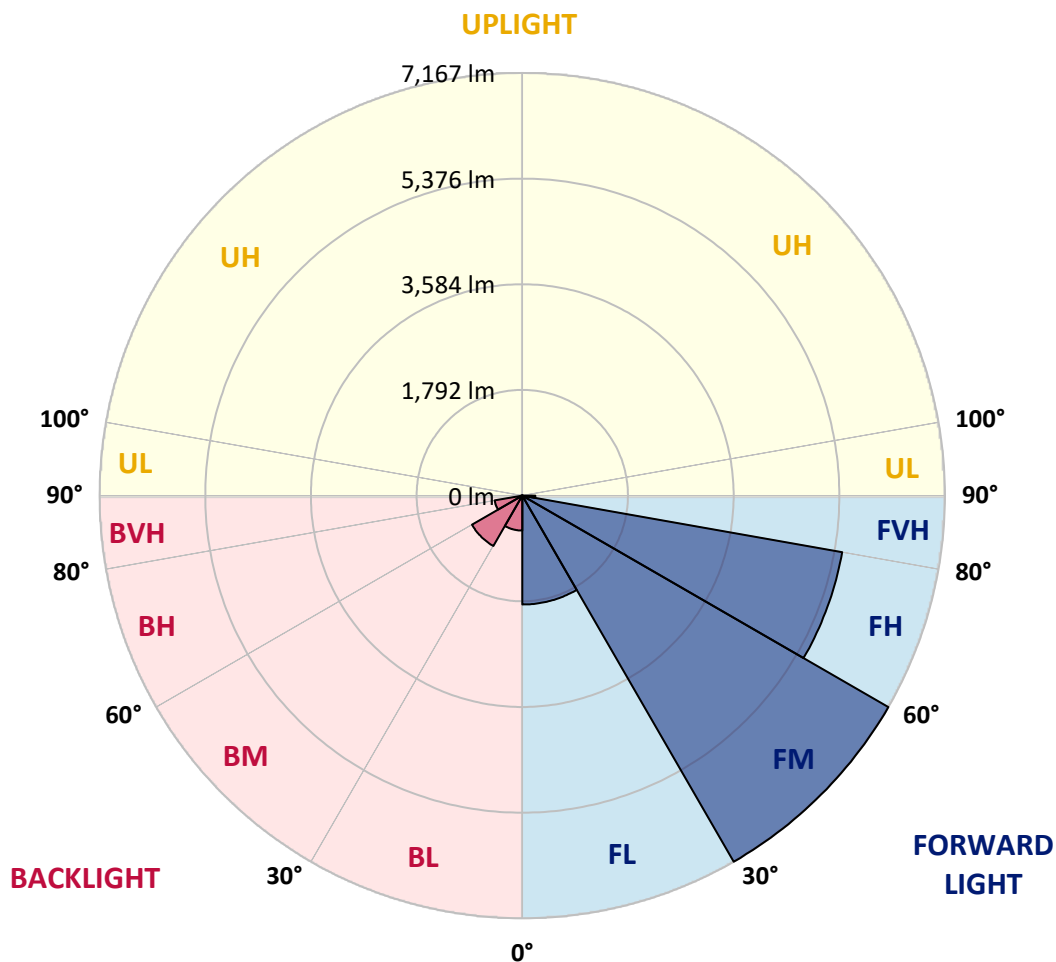
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.5	11.0			
FM	(30°-60°)	7167.5	42.6			
FH	(60°-80°)	5507.7	32.8			G3/7500
FVH	(80°-90°)	221.2	1.3			G2/225
BL	(0°-30°)	592.6	3.5	B2/1000		
BM	(30°-60°)	985.1	5.9	B1/1000		
BH	(60°-80°)	475.6	2.8	B1/500		G1/500
BVH	(80°-90°)	20.7	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°	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9
2.5°	6110.1	6083.3	6021.9	5835.3	5673.0	5460.8	5246.0	5077.3	4973.8	4783.3	4696.4
5°	5919.7	5932.5	5754.8	5371.3	4944.4	4652.9	4334.6	4081.5	3802.9	3626.5	3441.1
7.5°	5422.4	5396.9	5203.8	4669.5	4150.6	3728.7	3326.1	2998.8	2793.0	2628.1	2490.1
10°	4996.8	4977.6	4730.9	4043.2	3485.8	3170.1	2897.8	2611.5	2390.4	2148.8	1955.8
12.5°	4729.6	4686.1	4402.4	3684.0	3230.2	2936.2	2639.6	2341.8	2036.3	1792.1	1558.2
15°	4640.1	4577.5	4261.8	3560.0	3066.6	2693.3	2321.3	1978.8	1627.2	1357.5	1181.1
17.5°	4802.5	4698.9	4362.7	3538.3	2871.0	2376.3	1918.7	1472.6	1107.0	901.2	792.5
20°	5174.4	5055.6	4618.4	3516.5	2653.7	2020.9	1458.5	1040.5	765.7	653.2	593.1
22.5°	5726.7	5563.0	4996.8	3551.0	2453.0	1674.5	1053.3	735.0	608.5	538.2	496.0
25°	6390.1	6253.3	5476.1	3673.8	2294.5	1402.3	814.3	600.8	512.6	469.1	437.2
27.5°	7117.4	6898.8	6096.1	3820.8	2150.1	1191.3	714.6	536.9	456.3	416.7	400.1
30°	7635.1	7465.1	6615.1	3923.0	1969.8	1032.8	653.2	529.2	457.6	410.3	379.6
32.5°	8146.4	7929.1	7049.7	3970.3	1838.2	922.9	565.0	461.5	401.4	377.1	346.4
35°	8693.5	8466.0	7483.0	3944.7	1739.7	850.1	512.6	411.6	343.9	303.0	272.3
37.5°	9247.0	9006.7	7913.8	3852.7	1678.4	820.7	471.7	391.2	324.7	282.5	249.3
40°	9904.1	9583.2	8317.7	3777.3	1614.5	805.3	444.8	378.4	310.6	265.9	232.6
42.5°	10440.9	10135.4	8699.9	3737.7	1571.0	769.5	444.8	368.1	301.7	251.8	217.3
45°	10949.7	10632.7	9112.8	3769.6	1553.1	724.8	450.0	366.9	295.3	241.6	207.1
47.5°	11375.3	11100.5	9537.2	3889.8	1530.1	676.2	423.1	384.8	291.4	232.6	196.9
50°	11877.7	11611.8	10098.4	4132.7	1489.2	627.6	389.9	414.2	290.2	225.0	187.9
52.5°	12585.9	12298.3	10873.0	4408.8	1424.0	553.5	359.2	410.3	285.1	212.2	179.0
55°	13451.3	13218.6	11770.3	4739.8	1334.5	470.4	310.6	364.3	269.7	190.5	163.6
57.5°	14006.0	13807.9	12442.7	4883.0	1197.7	384.8	273.6	305.5	246.7	170.0	145.7
59°	14071.2	13892.3	12583.3	4835.7	1108.3	351.5	255.7	262.0	240.3	158.5	135.5
60°	14016.3	13830.9	12527.1	4743.7	1025.2	328.5	240.3	232.6	241.6	152.1	127.8
62.5°	13663.5	13346.4	11981.2	4277.1	896.1	301.7	213.5	190.5	213.5	136.8	113.8
65°	12982.1	12506.6	10901.1	3620.1	844.9	286.3	181.5	159.8	162.3	120.2	98.4
67.5°	11792.1	11192.6	9463.1	2941.3	823.2	287.6	153.4	143.2	125.3	102.3	86.9
70°	9910.4	9312.2	7592.9	2419.8	813.0	287.6	130.4	122.7	104.8	85.6	75.4
72.5°	7022.8	6378.6	5122.0	1900.8	732.5	286.3	111.2	111.2	85.6	71.6	61.4
75°	3967.8	3972.9	3220.0	1344.7	608.5	236.5	89.5	88.2	62.6	55.0	46.0
77.5°	2312.4	2271.5	2170.5	577.8	282.5	107.4	62.6	53.7	43.5	39.6	33.2
80°	1188.8	977.9	952.3	209.6	101.0	67.7	43.5	30.7	28.1	25.6	23.0
82.5°	351.5	352.8	314.5	84.4	56.2	44.7	21.7	16.6	15.3	14.1	14.1
85°	24.3	15.3	17.9	25.6	34.5	17.9	1.3	3.8	3.8	5.1	6.4
87.5°	2.6	1.3	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°	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9
2.5°	4600.5	4656.7	4551.9	4554.5	4467.6	4495.7	4393.4	4426.7	4366.6	4412.6	4548.1
5°	3461.6	3474.3	3390.0	3363.1	3375.9	3428.3	3448.8	3355.5	3395.1	3317.1	3312.0
7.5°	2438.9	2454.3	2405.7	2399.3	2491.4	2469.6	2509.2	2413.4	2322.6	2362.2	2289.4
10°	1894.4	1830.5	1730.8	1702.7	1684.8	1696.3	1696.3	1609.3	1596.6	1562.0	1614.5
12.5°	1495.6	1417.6	1323.0	1195.2	1163.2	1160.7	1113.4	1036.7	1012.4	983.0	1026.5
15°	1086.5	1054.6	975.3	903.7	830.9	816.8	740.1	677.5	594.4	582.9	579.1
17.5°	764.4	717.1	715.8	674.9	632.7	604.6	533.0	461.5	429.5	425.7	425.7
20°	572.7	556.0	529.2	524.1	511.3	479.4	415.4	377.1	361.8	363.0	368.1
22.5°	481.9	470.4	446.1	434.6	429.5	401.4	354.1	328.5	320.8	320.8	322.1
25°	430.8	420.6	393.7	375.8	369.4	349.0	311.9	292.7	286.3	286.3	286.3
27.5°	392.4	379.6	351.5	336.2	324.7	301.7	278.7	259.5	253.1	253.1	254.4
30°	365.6	351.5	326.0	305.5	287.6	267.2	248.0	231.4	223.7	222.4	223.7
32.5°	329.8	317.0	291.4	278.7	258.2	233.9	218.6	203.2	195.6	196.9	195.6
35°	256.9	253.1	235.2	239.0	227.5	207.1	193.0	176.4	167.5	166.2	168.7
37.5°	233.9	218.6	198.1	199.4	195.6	187.9	164.9	147.0	140.6	140.6	141.9
40°	216.0	200.7	177.7	166.2	167.5	167.5	143.2	124.0	117.6	116.3	118.9
42.5°	200.7	185.3	159.8	140.6	135.5	141.9	121.4	102.3	95.9	93.3	95.9
45°	190.5	173.8	144.4	122.7	107.4	115.0	99.7	84.4	76.7	76.7	75.4
47.5°	180.2	164.9	132.9	106.1	89.5	85.6	81.8	67.7	60.1	58.8	60.1
50°	171.3	155.9	120.2	92.0	75.4	66.5	66.5	53.7	48.6	46.0	47.3
52.5°	162.3	145.7	108.7	81.8	65.2	53.7	47.3	43.5	39.6	38.3	39.6
55°	149.6	132.9	97.1	70.3	56.2	44.7	37.1	35.8	33.2	30.7	33.2
57.5°	134.2	118.9	85.6	60.1	44.7	34.5	30.7	29.4	26.8	25.6	25.6
59°	125.3	111.2	79.3	52.4	39.6	30.7	28.1	26.8	24.3	21.7	23.0
60°	120.2	108.7	75.4	48.6	35.8	28.1	25.6	24.3	21.7	20.5	21.7
62.5°	106.1	97.1	66.5	39.6	28.1	20.5	17.9	19.2	17.9	16.6	17.9
65°	93.3	85.6	56.2	30.7	21.7	14.1	12.8	16.6	15.3	14.1	15.3
67.5°	83.1	74.1	47.3	23.0	15.3	7.7	8.9	14.1	14.1	12.8	14.1
70°	71.6	63.9	38.3	16.6	7.7	3.8	6.4	10.2	12.8	11.5	12.8
72.5°	58.8	49.9	29.4	11.5	3.8	0.0	3.8	8.9	12.8	11.5	12.8
75°	46.0	37.1	21.7	6.4	0.0	0.0	1.3	7.7	12.8	11.5	12.8
77.5°	33.2	26.8	12.8	1.3	0.0	0.0	1.3	7.7	12.8	11.5	12.8
80°	21.7	19.2	5.1	0.0	0.0	0.0	1.3	7.7	12.8	12.8	14.1
82.5°	14.1	10.2	0.0	0.0	0.0	0.0	2.6	10.2	14.1	15.3	15.3
85°	6.4	0.0	0.0	0.0	0.0	0.0	5.1	12.8	16.6	16.6	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	8.9	15.3	19.2	19.2	19.2
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°	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9
2.5°	4571.1	4651.6	4765.4	4940.5	5082.4	5306.1	5477.4	5711.3	5947.8	6019.4	6130.6
5°	3364.4	3468.0	3726.2	3961.4	4109.6	4582.6	4881.7	5353.4	5776.5	5979.8	6200.9
7.5°	2336.7	2459.4	2656.3	2984.8	3296.7	3681.4	4164.6	4704.0	5324.0	5614.2	5926.1
10°	1640.0	1793.4	2070.8	2340.5	2732.9	3098.5	3575.3	4171.0	4854.9	5197.5	5588.6
12.5°	1035.4	1172.2	1539.0	1842.0	2331.6	2756.0	3195.7	3735.1	4527.6	4879.2	5289.5
15°	591.8	706.9	878.2	1266.8	1810.0	2371.2	2919.6	3545.9	4360.2	4793.5	5237.1
17.5°	441.0	471.7	548.4	768.2	1262.9	1918.7	2665.2	3488.4	4474.0	4982.7	5488.9
20°	370.7	391.2	426.9	513.9	805.3	1477.7	2417.2	3498.6	4842.1	5481.2	5961.9
22.5°	332.4	345.1	374.5	430.8	549.7	1076.3	2127.0	3558.7	5288.2	6093.5	6648.3
25°	291.4	308.1	333.6	382.2	457.6	746.5	1840.7	3692.9	5913.3	6870.7	7392.2
27.5°	259.5	274.8	300.4	345.1	401.4	570.1	1507.1	3808.0	6572.9	7653.0	8080.0
30°	227.5	242.9	268.4	304.2	355.4	461.5	1147.9	3875.7	7213.3	8239.7	8568.3
32.5°	200.7	213.5	237.8	269.7	311.9	391.2	905.0	3805.4	7702.9	8772.8	8992.6
35°	173.8	189.2	209.6	239.0	276.1	333.6	752.9	3562.5	8123.4	9321.2	9400.4
37.5°	145.7	163.6	185.3	212.2	241.6	306.8	604.6	3294.1	8573.4	10005.0	9874.7
40°	122.7	139.3	159.8	189.2	216.0	281.2	465.3	3007.8	9059.1	10646.7	10392.4
42.5°	99.7	117.6	141.9	168.7	213.5	245.4	360.5	2711.2	9495.0	11205.3	10860.2
45°	79.3	94.6	120.2	154.7	212.2	210.9	278.7	2418.5	9823.5	11604.2	11209.2
47.5°	62.6	75.4	101.0	150.8	195.6	179.0	223.7	2237.0	10168.7	11963.4	11476.3
50°	49.9	62.6	86.9	157.2	171.3	153.4	187.9	2266.4	10502.3	12146.1	11586.3
52.5°	42.2	55.0	75.4	124.0	131.7	134.2	164.9	2401.9	10933.1	12341.7	11804.8
55°	37.1	48.6	63.9	86.9	102.3	120.2	150.8	2500.3	11509.6	12761.0	12286.8
57.5°	29.4	42.2	57.5	74.1	84.4	104.8	139.3	2508.0	12031.1	13299.1	12927.2
59°	26.8	38.3	53.7	70.3	75.4	94.6	131.7	2442.8	12050.3	13379.7	13221.2
60°	24.3	37.1	51.1	65.2	71.6	89.5	125.3	2367.4	11876.4	13251.8	13342.6
62.5°	20.5	32.0	44.7	52.4	61.4	74.1	108.7	2093.8	11034.0	12672.8	13117.6
65°	17.9	28.1	38.3	43.5	51.1	63.9	95.9	1675.8	10103.5	11887.9	12473.4
67.5°	16.6	25.6	33.2	37.1	44.7	58.8	85.6	1183.7	8898.1	10892.2	11505.7
70°	15.3	24.3	29.4	34.5	39.6	49.9	72.9	690.3	6854.1	9146.0	9794.1
72.5°	15.3	23.0	25.6	29.4	34.5	44.7	67.7	373.3	4686.1	6976.8	7814.1
75°	15.3	21.7	23.0	25.6	30.7	40.9	60.1	195.6	3029.5	4847.2	5982.3
77.5°	15.3	20.5	23.0	24.3	29.4	35.8	52.4	122.7	2018.4	3395.1	4043.2
80°	16.6	20.5	21.7	24.3	28.1	33.2	43.5	81.8	1186.2	2042.7	2460.7
82.5°	17.9	20.5	23.0	25.6	29.4	32.0	38.3	51.1	547.1	1351.1	1528.8
85°	19.2	21.7	24.3	26.8	30.7	32.0	35.8	37.1	89.5	609.7	824.5
87.5°	20.5	23.0	25.6	28.1	33.2	33.2	33.2	33.2	30.7	65.2	166.2
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: P455743

CATALOG NUMBER: GALN-SA7A-722-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9	5557.9
2.5°	6271.2	6415.6	6516.6	6542.2	6469.3	6436.1	6344.1	6200.9	6114.0	6110.1
5°	6608.7	6947.4	7182.6	7222.2	7081.6	6843.9	6561.4	6197.1	5983.6	5919.7
7.5°	6551.1	7144.3	7522.6	7577.6	7341.1	6887.3	6340.2	5753.5	5520.9	5422.4
10°	6314.7	7038.2	7578.9	7665.8	7350.1	6710.9	6015.5	5361.1	5072.2	4996.8
12.5°	6112.7	6843.9	7324.5	7444.7	7205.6	6567.8	5821.3	5109.3	4799.9	4729.6
15°	6024.5	6613.8	6907.8	6969.1	6929.5	6478.3	5800.8	5070.9	4716.8	4640.1
17.5°	6112.7	6418.2	6455.3	6517.9	6606.1	6469.3	5997.7	5279.3	4897.1	4802.5
20°	6344.1	6248.2	6094.8	6121.6	6323.6	6506.4	6347.9	5740.7	5275.4	5174.4
22.5°	6737.8	6206.0	5858.3	5835.3	6091.0	6630.4	6861.8	6365.8	5826.4	5726.7
25°	7221.0	6312.1	5771.4	5721.5	6000.2	6811.9	7420.4	7131.5	6542.2	6390.1
27.5°	7747.6	6532.0	5771.4	5722.8	5992.5	6973.0	7898.4	7809.0	7283.6	7117.4
30°	8036.5	6713.5	5854.5	5799.5	6087.1	7066.3	8154.1	8411.0	7840.9	7635.1
32.5°	8294.7	6965.3	6016.8	5913.3	6285.3	7204.3	8382.9	8922.3	8284.5	8146.4
35°	8532.5	7235.0	6240.5	6120.4	6546.0	7393.5	8636.0	9459.2	8901.9	8693.5
37.5°	8794.5	7548.2	6589.5	6487.2	6981.9	7761.7	8936.4	10164.8	9509.1	9247.0
40°	9079.6	7911.2	7163.4	7120.0	7674.7	8178.4	9316.0	10917.7	10201.9	9904.1
42.5°	9369.7	8329.2	7866.5	7938.1	8459.6	8762.6	9705.9	11496.8	10769.4	10440.9
45°	9633.1	8863.5	8780.5	9134.5	9374.8	9332.7	9994.8	11904.6	11264.1	10949.7
47.5°	9965.4	9642.0	9886.2	10432.0	10438.4	9952.6	10213.4	12238.2	11689.8	11375.3
50°	10337.4	10561.1	11314.0	11870.0	11720.5	10562.4	10469.1	12633.2	12129.5	11877.7
52.5°	10768.2	11590.1	12633.2	13250.6	12901.6	11227.1	10894.7	13060.1	12827.5	12585.9
55°	11269.2	12291.9	13948.5	14440.6	14089.1	12052.8	11541.5	13639.2	13616.2	13451.3
57.5°	11835.5	13033.3	14710.4	15376.3	15063.2	13021.8	12445.3	14185.0	14098.1	14006.0
59°	12282.9	13414.2	15046.5	15736.8	15547.6	13700.5	13052.4	14525.0	14209.3	14071.2
60°	12553.9	13672.4	15170.5	15785.4	15741.9	14104.5	13437.2	14691.2	14208.0	14016.3
62.5°	13357.9	14123.6	15123.2	15569.4	15739.4	14879.1	14565.9	14874.0	13944.7	13663.5
65°	13644.3	13974.1	14339.7	14284.7	14430.4	14839.5	15286.9	14673.3	13382.2	12982.1
67.5°	13087.0	12334.1	12463.2	12096.3	12024.7	13193.0	14994.1	13691.6	12281.6	11792.1
70°	11031.5	9449.0	9383.8	9552.5	9089.8	10681.2	13464.0	11801.0	10465.2	9910.4
72.5°	8683.3	6677.7	6128.0	6749.3	6735.2	8149.0	11184.9	8374.0	7070.1	7022.8
75°	6828.5	4649.1	4080.2	4181.2	4375.5	5899.2	8908.3	5317.6	4353.8	3967.8
77.5°	4583.9	3294.1	3073.0	2949.0	3158.6	3787.5	5635.9	2883.8	2441.5	2312.4
80°	2642.2	2392.9	2717.6	2467.1	2579.6	2386.5	2803.3	1323.0	1098.0	1188.8
82.5°	1719.3	1362.6	1452.1	1078.9	1475.1	1487.9	899.9	391.2	331.1	351.5
85°	1075.0	639.1	359.2	255.7	508.8	935.7	281.2	24.3	28.1	24.3
87.5°	278.7	106.1	44.7	66.5	81.8	72.9	65.2	3.8	1.3	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)