

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: P457831

Luminaire Tested: **GALN-SA9B-722-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457831
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-SA9B-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 27233 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

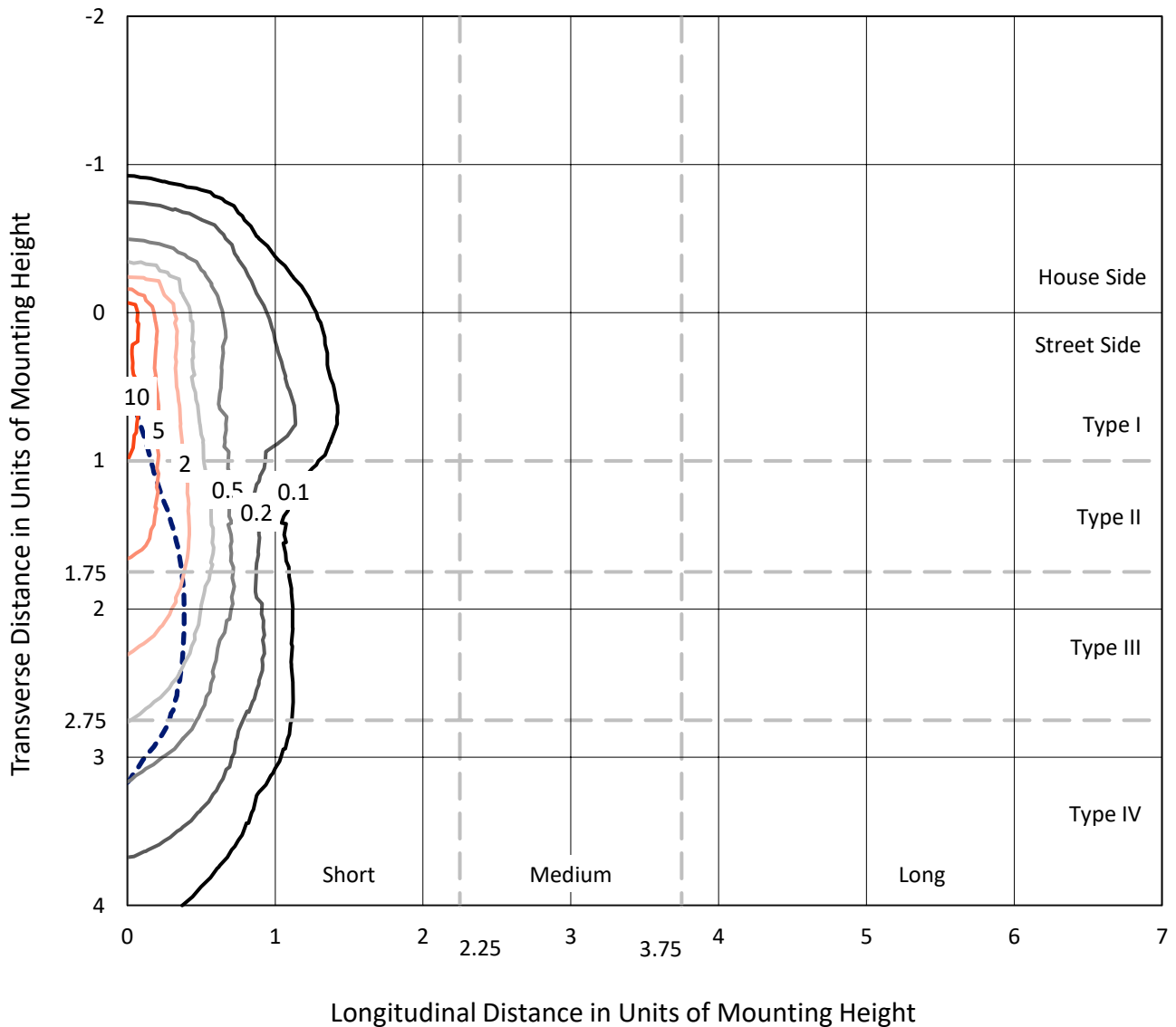
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

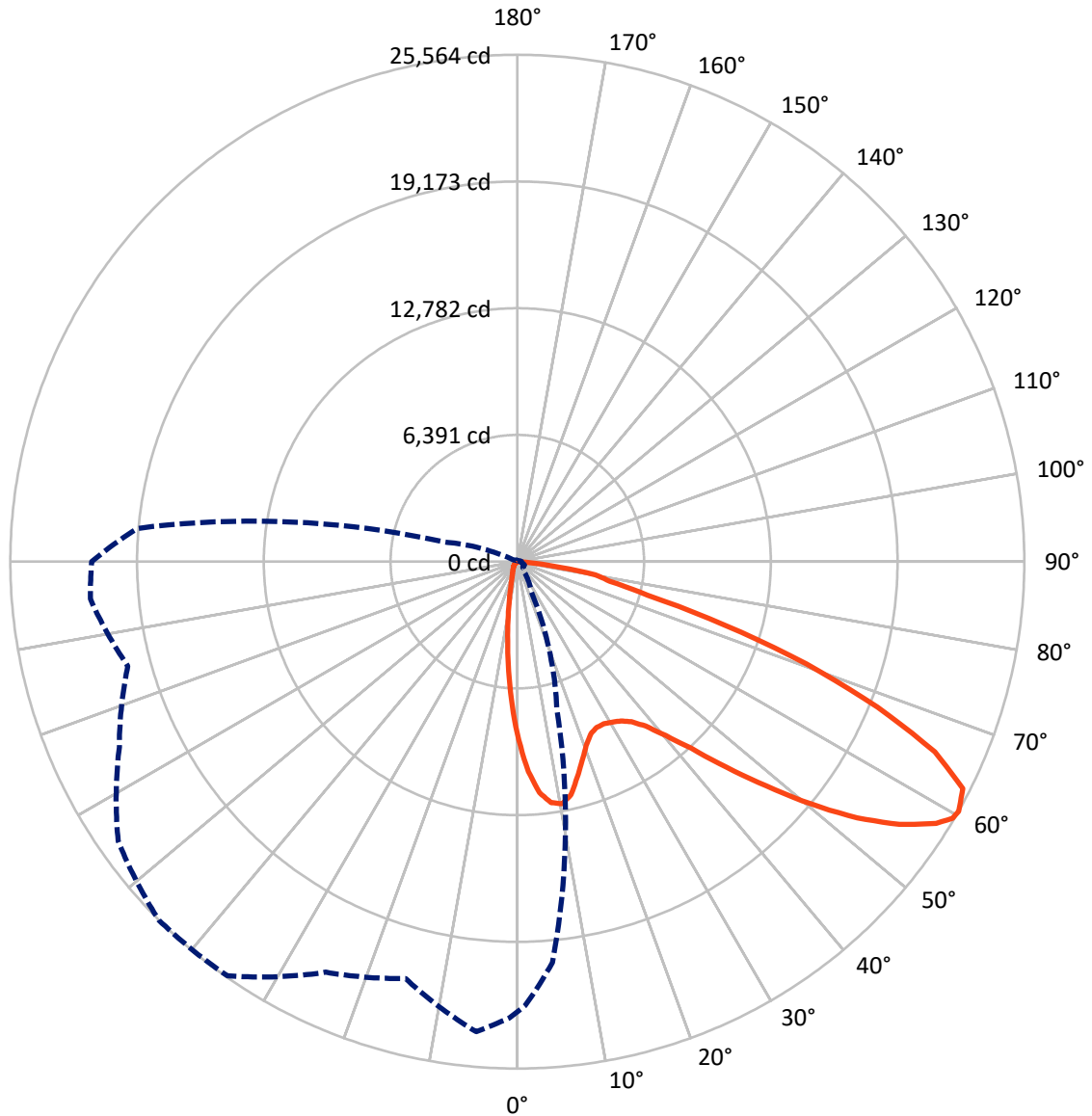
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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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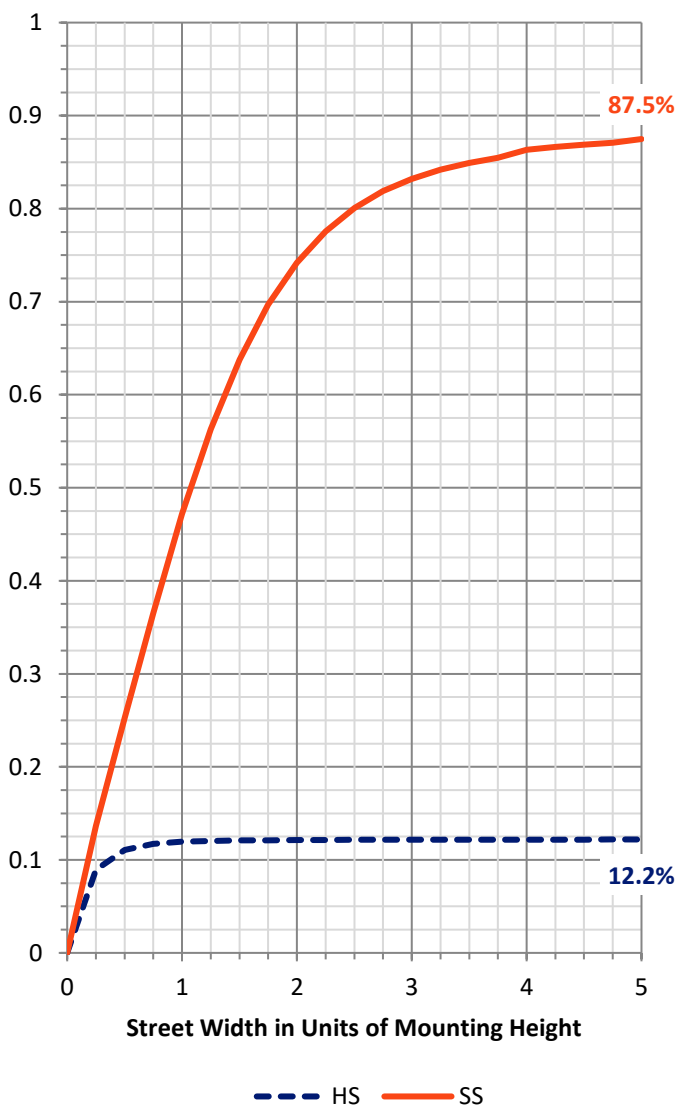
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3358.9	0.0	3358.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	23874.1	0.0	23874.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	27233.0	0.0	27233.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.5	2.5
10°-20°	1329.5	4.9
20°-30°	1949.5	7.2
30°-40°	2899.2	10.6
40°-50°	4219.2	15.5
50°-60°	6084.5	22.3
60°-70°	6692.3	24.6
70°-80°	2997.6	11.0
80°-90°	391.7	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°	27233.0	100.0
0°-180°	27233.0	100.0



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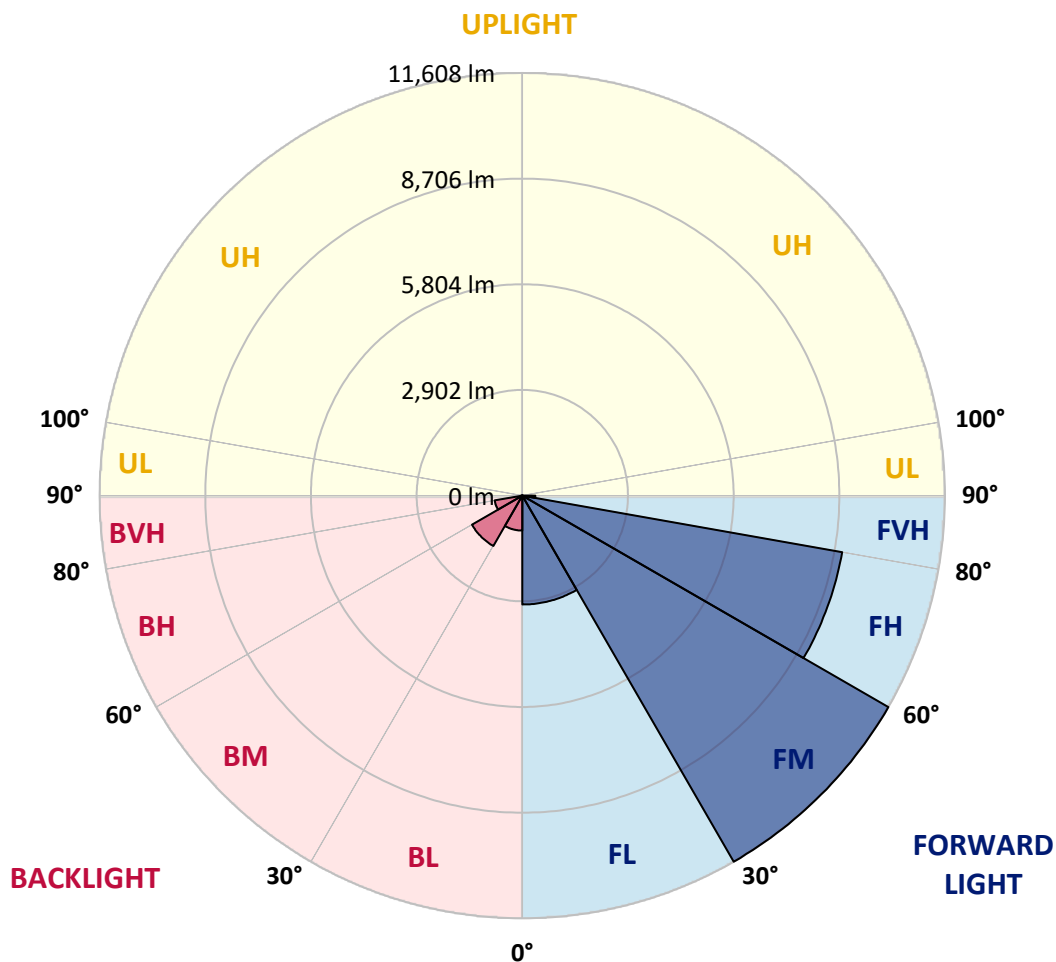
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2988.7	11.0			
FM	(30°-60°)	11607.5	42.6			
FH	(60°-80°)	8919.6	32.8			G4/12000
FVH	(80°-90°)	358.2	1.3			G3/500
BL	(0°-30°)	959.8	3.5	B2/1000		
BM	(30°-60°)	1595.4	5.9	B2/2500		
BH	(60°-80°)	770.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	33.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9
2.5°	9895.2	9851.7	9752.4	9450.1	9187.2	8843.6	8495.8	8222.5	8054.8	7746.4	7605.6
5°	9586.7	9607.4	9319.7	8698.7	8007.2	7535.2	7019.8	6609.9	6158.6	5872.9	5572.8
7.5°	8781.5	8740.1	8427.5	7562.2	6721.7	6038.5	5386.5	4856.5	4523.2	4256.2	4032.6
10°	8092.1	8061.1	7661.5	6547.8	5645.2	5133.9	4693.0	4229.3	3871.1	3479.9	3167.3
12.5°	7659.5	7589.1	7129.5	5966.1	5231.2	4755.1	4274.8	3792.5	3297.7	2902.3	2523.5
15°	7514.5	7413.1	6901.8	5765.3	4966.2	4361.7	3759.3	3204.6	2635.3	2198.5	1912.8
17.5°	7777.5	7609.8	7065.3	5730.1	4649.5	3848.4	3107.3	2384.8	1792.7	1459.4	1283.5
20°	8379.9	8187.3	7479.4	5694.9	4297.6	3272.9	2362.0	1685.1	1240.0	1057.8	960.5
22.5°	9274.2	9009.2	8092.1	5750.8	3972.6	2711.9	1705.8	1190.3	985.4	871.5	803.2
25°	10348.5	10127.0	8868.4	5949.5	3715.9	2270.9	1318.7	973.0	830.1	759.7	708.0
27.5°	11526.4	11172.5	9872.4	6187.6	3481.9	1929.4	1157.2	869.5	739.0	674.9	647.9
30°	12364.8	12089.5	10712.9	6353.2	3190.1	1672.7	1057.8	857.0	741.1	664.5	614.8
32.5°	13192.9	12841.0	11416.7	6429.8	2976.8	1494.6	915.0	747.3	650.0	610.7	561.0
35°	14078.9	13710.4	12118.5	6388.4	2817.4	1376.6	830.1	666.6	556.9	490.6	440.9
37.5°	14975.3	14586.1	12816.1	6239.4	2718.1	1329.0	763.9	633.5	525.8	457.5	403.7
40°	16039.3	15519.7	13470.3	6117.2	2614.6	1304.2	720.4	612.8	503.0	430.6	376.8
42.5°	16908.8	16414.0	14089.3	6053.0	2544.2	1246.2	720.4	596.2	488.5	407.8	351.9
45°	17732.7	17219.3	14757.9	6104.8	2515.2	1173.8	728.7	594.1	478.2	391.3	335.4
47.5°	18422.0	17976.9	15445.2	6299.4	2477.9	1095.1	685.2	623.1	472.0	376.8	318.8
50°	19235.6	18805.0	16354.0	6692.7	2411.7	1016.4	631.4	670.7	469.9	364.3	304.3
52.5°	20382.4	19916.7	17608.5	7139.9	2306.1	896.4	581.7	664.5	461.6	343.6	289.8
55°	21783.9	21407.1	19061.7	7676.0	2161.2	761.8	503.0	590.0	436.8	308.4	265.0
57.5°	22682.3	22361.5	20150.6	7907.9	1939.7	623.1	443.0	494.8	399.5	275.3	236.0
59°	22787.9	22498.1	20378.3	7831.3	1794.8	569.3	414.0	424.4	389.2	256.7	219.4
60°	22698.9	22398.7	20287.2	7682.2	1660.2	532.0	389.2	376.8	391.3	246.3	207.0
62.5°	22127.5	21614.2	19403.3	6926.6	1451.2	488.5	345.7	308.4	345.7	221.5	184.2
65°	21024.2	20254.1	17654.0	5862.6	1368.4	463.7	294.0	258.8	262.9	194.6	159.4
67.5°	19096.9	18126.0	15325.1	4763.4	1333.2	465.8	248.4	231.9	202.9	165.6	140.8
70°	16049.7	15080.8	12296.5	3918.7	1316.6	465.8	211.2	198.7	169.8	138.7	122.1
72.5°	11373.3	10329.9	8295.0	3078.3	1186.2	463.7	180.1	180.1	138.7	115.9	99.4
75°	6425.7	6433.9	5214.6	2177.8	985.4	383.0	144.9	142.8	101.4	89.0	74.5
77.5°	3744.9	3678.6	3515.1	935.7	457.5	173.9	101.4	86.9	70.4	64.2	53.8
80°	1925.2	1583.6	1542.2	339.5	163.5	109.7	70.4	49.7	45.5	41.4	37.3
82.5°	569.3	571.4	509.3	136.6	91.1	72.5	35.2	26.9	24.8	22.8	22.8
85°	39.3	24.8	29.0	41.4	55.9	29.0	2.1	6.2	6.2	8.3	10.4
87.5°	4.1	2.1	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°	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9
2.5°	7450.4	7541.5	7371.7	7375.8	7235.1	7280.6	7115.0	7168.8	7071.5	7146.1	7365.5
5°	5605.9	5626.6	5490.0	5446.5	5467.2	5552.1	5585.2	5434.1	5498.2	5372.0	5363.7
7.5°	3949.8	3974.6	3896.0	3885.6	4034.7	3999.5	4063.7	3908.4	3761.4	3825.6	3707.6
10°	3067.9	2964.4	2802.9	2757.4	2728.4	2747.1	2747.1	2606.3	2585.6	2529.7	2614.6
12.5°	2422.0	2295.8	2142.6	1935.6	1883.8	1879.7	1803.1	1678.9	1639.5	1591.9	1662.3
15°	1759.6	1707.9	1579.5	1463.6	1345.6	1322.8	1198.6	1097.2	962.6	944.0	937.8
17.5°	1237.9	1161.3	1159.3	1093.0	1024.7	979.2	863.2	747.3	695.6	689.4	689.4
20°	927.4	900.5	857.0	848.8	828.0	776.3	672.8	610.7	585.8	587.9	596.2
22.5°	780.4	761.8	722.5	703.8	695.6	650.0	573.4	532.0	519.6	519.6	521.7
25°	697.6	681.1	637.6	608.6	598.3	565.1	505.1	474.1	463.7	463.7	463.7
27.5°	635.5	614.8	569.3	544.4	525.8	488.5	451.3	420.2	409.9	409.9	412.0
30°	592.1	569.3	527.9	494.8	465.8	432.7	401.6	374.7	362.3	360.2	362.3
32.5°	534.1	513.4	472.0	451.3	418.2	378.8	354.0	329.1	316.7	318.8	316.7
35°	416.1	409.9	380.9	387.1	368.5	335.4	312.6	285.7	271.2	269.1	273.3
37.5°	378.8	354.0	320.9	322.9	316.7	304.3	267.0	238.1	227.7	227.7	229.8
40°	349.9	325.0	287.7	269.1	271.2	271.2	231.9	200.8	190.5	188.4	192.5
42.5°	325.0	300.2	258.8	227.7	219.4	229.8	196.7	165.6	155.3	151.1	155.3
45°	308.4	281.5	233.9	198.7	173.9	186.3	161.5	136.6	124.2	124.2	122.1
47.5°	291.9	267.0	215.3	171.8	144.9	138.7	132.5	109.7	97.3	95.2	97.3
50°	277.4	252.6	194.6	149.0	122.1	107.6	107.6	86.9	78.7	74.5	76.6
52.5°	262.9	236.0	176.0	132.5	105.6	86.9	76.6	70.4	64.2	62.1	64.2
55°	242.2	215.3	157.3	113.9	91.1	72.5	60.0	58.0	53.8	49.7	53.8
57.5°	217.4	192.5	138.7	97.3	72.5	55.9	49.7	47.6	43.5	41.4	41.4
59°	202.9	180.1	128.3	84.9	64.2	49.7	45.5	43.5	39.3	35.2	37.3
60°	194.6	176.0	122.1	78.7	58.0	45.5	41.4	39.3	35.2	33.1	35.2
62.5°	171.8	157.3	107.6	64.2	45.5	33.1	29.0	31.1	29.0	26.9	29.0
65°	151.1	138.7	91.1	49.7	35.2	22.8	20.7	26.9	24.8	22.8	24.8
67.5°	134.6	120.1	76.6	37.3	24.8	12.4	14.5	22.8	22.8	20.7	22.8
70°	115.9	103.5	62.1	26.9	12.4	6.2	10.4	16.6	20.7	18.6	20.7
72.5°	95.2	80.7	47.6	18.6	6.2	0.0	6.2	14.5	20.7	18.6	20.7
75°	74.5	60.0	35.2	10.4	0.0	0.0	2.1	12.4	20.7	18.6	20.7
77.5°	53.8	43.5	20.7	2.1	0.0	0.0	2.1	12.4	20.7	18.6	20.7
80°	35.2	31.1	8.3	0.0	0.0	0.0	2.1	12.4	20.7	20.7	22.8
82.5°	22.8	16.6	0.0	0.0	0.0	0.0	4.1	16.6	22.8	24.8	24.8
85°	10.4	0.0	0.0	0.0	0.0	0.0	8.3	20.7	26.9	26.9	26.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.1	14.5	24.8	31.1	31.1	31.1
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°	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9
2.5°	7402.8	7533.2	7717.4	8001.0	8230.8	8593.1	8870.5	9249.3	9632.3	9748.2	9928.3
5°	5448.6	5616.2	6034.4	6415.3	6655.4	7421.4	7905.8	8669.7	9354.9	9684.0	10042.2
7.5°	3784.2	3982.9	4301.7	4833.7	5338.8	5962.0	6744.5	7618.1	8622.1	9092.0	9597.1
10°	2656.0	2904.4	3353.6	3790.4	4425.9	5018.0	5790.1	6754.8	7862.3	8417.1	9050.6
12.5°	1676.8	1898.3	2492.4	2983.0	3775.9	4463.2	5175.3	6048.9	7332.4	7901.7	8566.2
15°	958.5	1144.8	1422.2	2051.5	2931.3	3840.1	4728.2	5742.5	7061.2	7763.0	8481.3
17.5°	714.2	763.9	888.1	1244.1	2045.3	3107.3	4316.2	5649.4	7245.4	8069.3	8889.1
20°	600.3	633.5	691.4	832.2	1304.2	2393.1	3914.6	5665.9	7841.6	8876.7	9655.1
22.5°	538.2	558.9	606.5	697.6	890.2	1743.0	3444.7	5763.2	8564.1	9868.3	10766.7
25°	472.0	498.9	540.3	619.0	741.1	1209.0	2981.0	5980.6	9576.4	11126.9	11971.5
27.5°	420.2	445.1	486.5	558.9	650.0	923.3	2440.7	6166.9	10644.6	12393.8	13085.2
30°	368.5	393.3	434.7	492.7	575.5	747.3	1859.0	6276.6	11681.7	13344.0	13876.0
32.5°	325.0	345.7	385.0	436.8	505.1	633.5	1465.6	6162.8	12474.6	14207.3	14563.3
35°	281.5	306.4	339.5	387.1	447.1	540.3	1219.3	5769.4	13155.6	15095.3	15223.7
37.5°	236.0	265.0	300.2	343.6	391.3	496.8	979.2	5334.7	13884.3	16202.9	15991.7
40°	198.7	225.6	258.8	306.4	349.9	455.4	753.5	4871.0	14671.0	17242.1	16830.1
42.5°	161.5	190.5	229.8	273.3	345.7	397.5	583.8	4390.7	15376.9	18146.7	17587.8
45°	128.3	153.2	194.6	250.5	343.6	341.6	451.3	3916.7	15908.9	18792.6	18152.9
47.5°	101.4	122.1	163.5	244.3	316.7	289.8	362.3	3622.7	16467.8	19374.3	18585.6
50°	80.7	101.4	140.8	254.6	277.4	248.4	304.3	3670.3	17008.1	19670.3	18763.6
52.5°	68.3	89.0	122.1	200.8	213.2	217.4	267.0	3889.8	17705.8	19987.0	19117.6
55°	60.0	78.7	103.5	140.8	165.6	194.6	244.3	4049.2	18639.4	20666.0	19898.0
57.5°	47.6	68.3	93.2	120.1	136.6	169.8	225.6	4061.6	19484.0	21537.6	20935.2
59°	43.5	62.1	86.9	113.9	122.1	153.2	213.2	3956.0	19515.1	21668.0	21411.3
60°	39.3	60.0	82.8	105.6	115.9	144.9	202.9	3833.9	19233.5	21461.0	21607.9
62.5°	33.1	51.8	72.5	84.9	99.4	120.1	176.0	3390.9	17869.3	20523.2	21243.6
65°	29.0	45.5	62.1	70.4	82.8	103.5	155.3	2713.9	16362.3	19252.1	20200.3
67.5°	26.9	41.4	53.8	60.0	72.5	95.2	138.7	1916.9	14410.1	17639.5	18633.2
70°	24.8	39.3	47.6	55.9	64.2	80.7	118.0	1117.9	11100.0	14811.7	15861.3
72.5°	24.8	37.3	41.4	47.6	55.9	72.5	109.7	604.5	7589.1	11298.7	12654.7
75°	24.8	35.2	37.3	41.4	49.7	66.2	97.3	316.7	4906.2	7849.9	9688.2
77.5°	24.8	33.1	37.3	39.3	47.6	58.0	84.9	198.7	3268.7	5498.2	6547.8
80°	26.9	33.1	35.2	39.3	45.5	53.8	70.4	132.5	1921.1	3308.1	3985.0
82.5°	29.0	33.1	37.3	41.4	47.6	51.8	62.1	82.8	886.0	2188.1	2475.9
85°	31.1	35.2	39.3	43.5	49.7	51.8	58.0	60.0	144.9	987.4	1335.2
87.5°	33.1	37.3	41.4	45.5	53.8	53.8	53.8	53.8	49.7	105.6	269.1
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: P457831

CATALOG NUMBER: GALN-SA9B-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9	9000.9
2.5°	10156.0	10389.9	10553.5	10594.9	10476.9	10423.1	10274.0	10042.2	9901.4	9895.2
5°	10702.5	11251.1	11632.0	11696.2	11468.5	11083.4	10625.9	10036.0	9690.2	9586.7
7.5°	10609.4	11569.9	12182.7	12271.7	11888.7	11153.8	10267.8	9317.6	8940.9	8781.5
10°	10226.4	11398.1	12273.8	12414.5	11903.2	10868.1	9742.0	8682.1	8214.2	8092.1
12.5°	9899.3	11083.4	11861.8	12056.4	11669.3	10636.3	9427.3	8274.3	7773.3	7659.5
15°	9756.5	10710.8	11186.9	11286.3	11222.1	10491.4	9394.2	8212.2	7638.8	7514.5
17.5°	9899.3	10394.1	10454.1	10555.6	10698.4	10476.9	9713.0	8549.6	7930.6	7777.5
20°	10274.0	10118.8	9870.3	9913.8	10240.9	10536.9	10280.2	9296.9	8543.4	8379.9
22.5°	10911.6	10050.4	9487.4	9450.1	9864.1	10737.7	11112.4	10309.2	9435.6	9274.2
25°	11694.1	10222.3	9346.6	9265.9	9717.2	11031.7	12017.1	11549.2	10594.9	10348.5
27.5°	12547.0	10578.3	9346.6	9267.9	9704.7	11292.5	12791.3	12646.4	11795.6	11526.4
30°	13014.9	10872.3	9481.2	9392.1	9857.9	11443.6	13205.3	13621.4	12698.1	12364.8
32.5°	13433.0	11280.1	9744.1	9576.4	10178.8	11667.2	13575.9	14449.5	13416.5	13192.9
35°	13818.1	11716.9	10106.3	9911.7	10601.1	11973.6	13985.8	15318.9	14416.3	14078.9
37.5°	14242.4	12224.1	10671.5	10505.9	11307.0	12569.8	14472.2	16461.6	15399.6	14975.3
40°	14704.1	12812.0	11601.0	11530.6	12429.0	13244.6	15087.1	17680.9	16521.7	16039.3
42.5°	15174.0	13488.9	12739.5	12855.5	13700.1	14190.7	15718.4	18618.7	17440.8	16908.8
45°	15600.4	14354.2	14219.7	14793.1	15182.3	15114.0	16186.3	19279.1	18241.9	17732.7
47.5°	16138.7	15614.9	16010.3	16894.3	16904.6	16118.0	16540.3	19819.4	18931.3	18422.0
50°	16741.1	17103.4	18322.7	19223.2	18981.0	17105.4	16954.3	20459.0	19643.4	19235.6
52.5°	17438.7	18769.8	20459.0	21458.9	20893.8	18181.9	17643.7	21150.4	20773.7	20382.4
55°	18250.2	19906.3	22589.2	23386.2	22816.9	19519.2	18691.1	22088.2	22051.0	21783.9
57.5°	19167.3	21107.0	23823.0	24901.5	24394.3	21088.3	20154.7	22972.2	22831.4	22682.3
59°	19891.8	21723.9	24367.4	25485.3	25178.9	22187.6	21138.0	23522.8	23011.5	22787.9
60°	20330.7	22142.0	24568.2	25564.0	25493.6	22841.7	21761.1	23791.9	23009.4	22698.9
62.5°	21632.8	22872.8	24491.6	25214.1	25489.4	24096.2	23589.1	24088.0	22583.0	22127.5
65°	22096.5	22630.6	23222.6	23133.6	23369.6	24032.1	24756.6	23762.9	21672.1	21024.2
67.5°	21193.9	19974.6	20183.7	19589.6	19473.6	21365.7	24282.5	22173.1	19889.7	19096.9
70°	17865.2	15302.4	15196.8	15470.0	14720.6	17297.9	21804.6	19111.4	16948.1	16049.7
72.5°	14062.3	10814.3	9924.2	10930.3	10907.5	13197.0	18113.6	13561.4	11449.9	11373.3
75°	11058.6	7529.0	6607.8	6771.4	7086.0	9553.6	14426.7	8611.7	7050.8	6425.7
77.5°	7423.5	5334.7	4976.6	4775.8	5115.3	6133.8	9127.2	4670.2	3953.9	3744.9
80°	4278.9	3875.3	4401.1	3995.3	4177.5	3864.9	4539.8	2142.6	1778.2	1925.2
82.5°	2784.3	2206.8	2351.7	1747.2	2388.9	2409.6	1457.4	633.5	536.2	569.3
85°	1741.0	1035.1	581.7	414.0	823.9	1515.3	455.4	39.3	45.5	39.3
87.5°	451.3	171.8	72.5	107.6	132.5	118.0	105.6	6.2	2.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)