

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: P457802

Luminaire Tested: **GALN-SA9A-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457802
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-SA9A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 23659 lumens
Efficiency: N/A
Efficacy: 86.3 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): 274
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

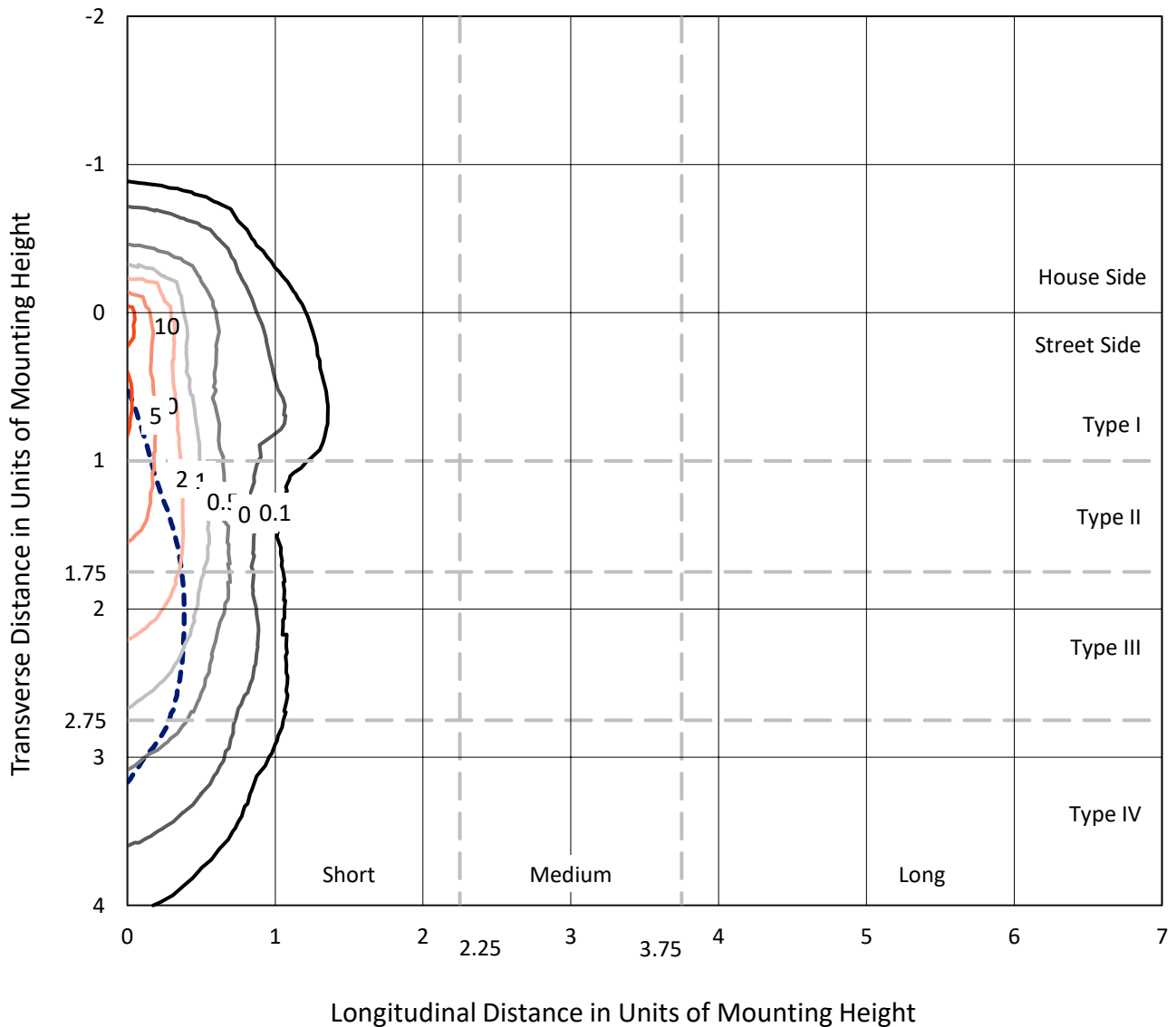




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Iso-Footcandle Lines of Horizontal Illumination

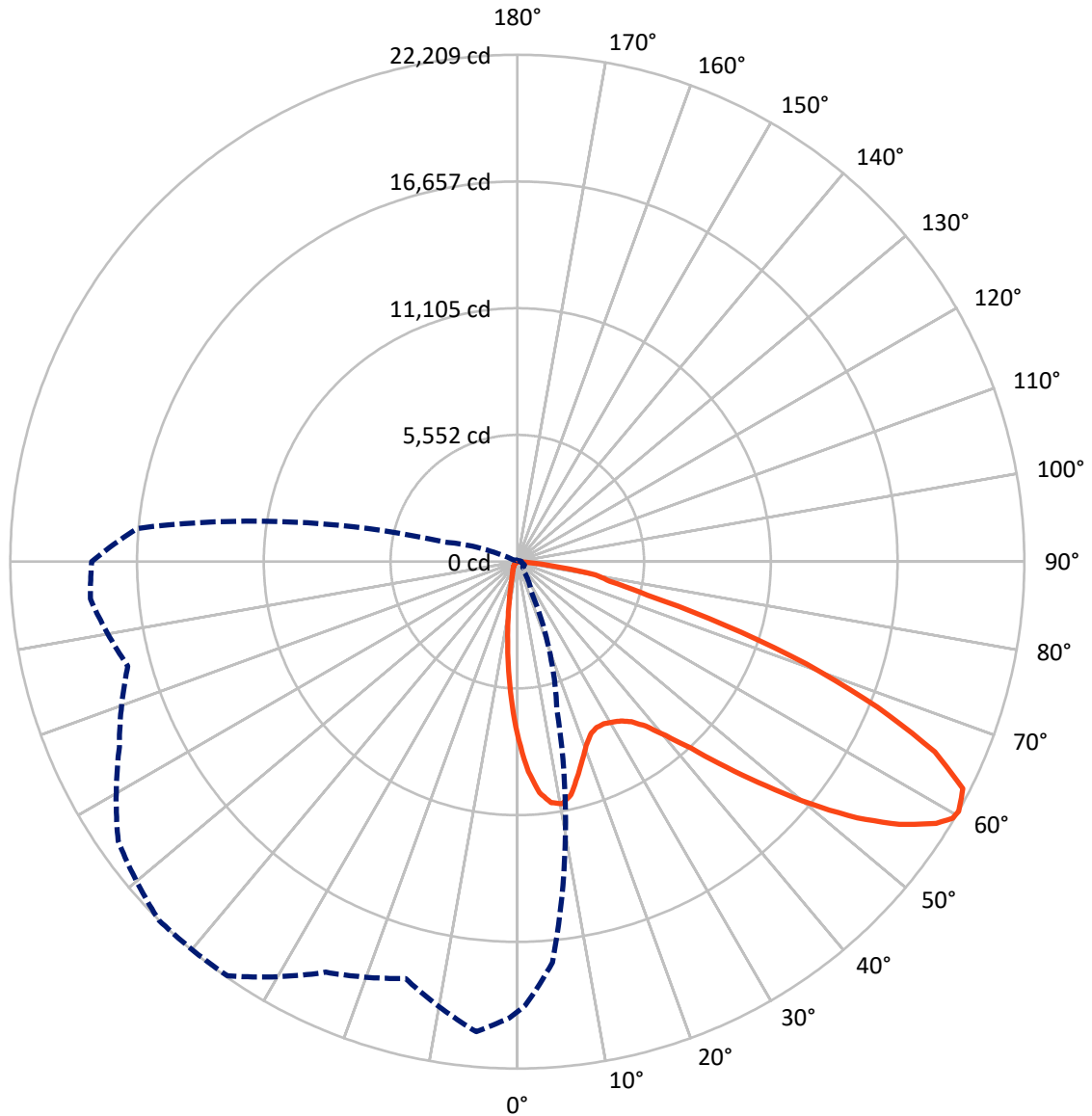
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	2918.1	0.0	2918.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20740.9	0.0	20740.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	23659.0	0.0	23659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.6	2.5
10°-20°	1155.1	4.9
20°-30°	1693.6	7.2
30°-40°	2518.7	10.6
40°-50°	3665.5	15.5
50°-60°	5286.0	22.3
60°-70°	5814.0	24.6
70°-80°	2604.2	11.0
80°-90°	340.3	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°	23659.0	100.0
0°-180°	23659.0	100.0

Coefficient of Utilization



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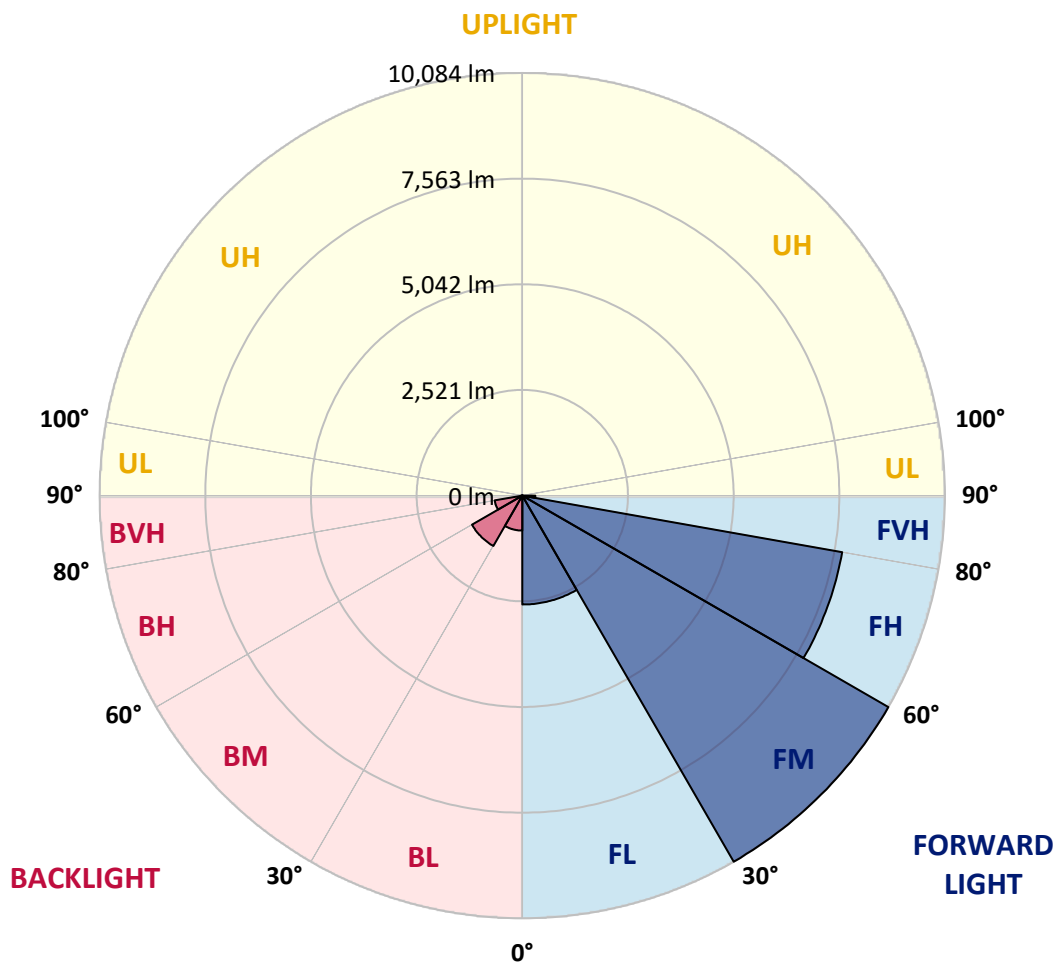
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2596.5	11.0			
FM	(30°-60°)	10084.2	42.6			
FH	(60°-80°)	7749.0	32.8			G4/12000
FVH	(80°-90°)	311.2	1.3			G3/500
BL	(0°-30°)	833.8	3.5	B2/1000		
BM	(30°-60°)	1386.0	5.9	B2/2500		
BH	(60°-80°)	669.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	29.1	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°	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6
2.5°	8596.6	8558.8	8472.5	8209.9	7981.5	7683.0	7380.8	7143.4	6997.7	6729.8	6607.5
5°	8328.6	8346.6	8096.6	7557.1	6956.4	6546.3	6098.5	5742.4	5350.4	5102.2	4841.4
7.5°	7629.0	7593.0	7321.5	6569.7	5839.6	5246.1	4679.6	4219.2	3929.6	3697.6	3503.4
10°	7030.1	7003.1	6656.0	5688.5	4904.4	4460.1	4077.1	3674.2	3363.1	3023.2	2751.6
12.5°	6654.2	6593.1	6193.8	5183.1	4544.7	4131.0	3713.8	3294.8	2864.9	2521.4	2192.3
15°	6528.4	6440.2	5996.0	5008.7	4314.5	3789.3	3266.0	2784.0	2289.4	1909.9	1661.8
17.5°	6756.8	6611.1	6138.1	4978.1	4039.3	3343.3	2699.5	2071.8	1557.5	1267.9	1115.0
20°	7280.1	7112.8	6497.8	4947.5	3733.6	2843.3	2052.0	1463.9	1077.3	919.0	834.5
22.5°	8057.0	7826.8	7030.1	4996.1	3451.2	2356.0	1481.9	1034.1	856.1	757.1	697.8
25°	8990.4	8798.0	7704.5	5168.7	3228.2	1972.9	1145.6	845.3	721.2	660.0	615.1
27.5°	10013.7	9706.2	8576.8	5375.6	3025.0	1676.2	1005.3	755.3	642.0	586.3	562.9
30°	10742.1	10502.9	9307.0	5519.4	2771.4	1453.1	919.0	744.6	643.8	577.3	534.1
32.5°	11461.5	11155.8	9918.4	5586.0	2586.2	1298.5	794.9	649.2	564.7	530.5	487.4
35°	12231.2	11911.1	10528.1	5550.0	2447.7	1196.0	721.2	579.1	483.8	426.2	383.1
37.5°	13009.9	12671.8	11134.2	5420.5	2361.4	1154.6	663.6	550.3	456.8	397.5	350.7
40°	13934.3	13482.9	11702.5	5314.4	2271.4	1133.0	625.9	532.3	437.0	374.1	327.3
42.5°	14689.7	14259.9	12240.2	5258.7	2210.3	1082.7	625.9	518.0	424.4	354.3	305.7
45°	15405.5	14959.5	12821.1	5303.6	2185.1	1019.7	633.1	516.2	415.4	339.9	291.3
47.5°	16004.4	15617.7	13418.2	5472.7	2152.7	951.4	595.3	541.3	410.0	327.3	277.0
50°	16711.1	16337.1	14207.7	5814.4	2095.2	883.0	548.5	582.7	408.2	316.5	264.4
52.5°	17707.5	17302.8	15297.6	6202.8	2003.5	778.7	505.4	577.3	401.1	298.5	251.8
55°	18925.0	18597.7	16560.1	6668.6	1877.6	661.8	437.0	512.6	379.5	268.0	230.2
57.5°	19705.6	19426.8	17506.1	6870.1	1685.1	541.3	384.9	429.8	347.1	239.2	205.0
59°	19797.3	19545.5	17703.9	6803.5	1559.3	494.6	359.7	368.7	338.1	223.0	190.6
60°	19719.9	19459.2	17624.8	6674.0	1442.4	462.2	338.1	327.3	339.9	214.0	179.8
62.5°	19223.6	18777.6	16856.8	6017.6	1260.7	424.4	300.3	268.0	300.3	192.4	160.1
65°	18265.0	17596.0	15337.1	5093.2	1188.8	402.9	255.4	224.8	228.4	169.1	138.5
67.5°	16590.7	15747.2	13313.9	4138.2	1158.2	404.7	215.8	201.4	176.2	143.9	122.3
70°	13943.3	13101.7	10682.8	3404.5	1143.8	404.7	183.4	172.7	147.5	120.5	106.1
72.5°	9880.7	8974.2	7206.4	2674.3	1030.5	402.9	156.5	156.5	120.5	100.7	86.3
75°	5582.4	5589.6	4530.3	1892.0	856.1	332.7	125.9	124.1	88.1	77.3	64.7
77.5°	3253.4	3195.8	3053.8	812.9	397.5	151.1	88.1	75.5	61.1	55.8	46.8
80°	1672.6	1375.8	1339.8	294.9	142.1	95.3	61.1	43.2	39.6	36.0	32.4
82.5°	494.6	496.4	442.4	118.7	79.1	62.9	30.6	23.4	21.6	19.8	19.8
85°	34.2	21.6	25.2	36.0	48.6	25.2	1.8	5.4	5.4	7.2	9.0
87.5°	3.6	1.8	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°	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6
2.5°	6472.6	6551.7	6404.3	6407.9	6285.6	6325.1	6181.3	6228.0	6143.5	6208.2	6398.9
5°	4870.2	4888.2	4769.5	4731.7	4749.7	4823.4	4852.2	4720.9	4776.7	4667.0	4659.8
7.5°	3431.4	3453.0	3384.7	3375.7	3505.2	3474.6	3530.3	3395.5	3267.8	3323.5	3221.0
10°	2665.3	2575.4	2435.1	2395.5	2370.4	2386.5	2386.5	2264.2	2246.3	2197.7	2271.4
12.5°	2104.2	1994.5	1861.4	1681.5	1636.6	1633.0	1566.4	1458.5	1424.4	1383.0	1444.2
15°	1528.7	1483.7	1372.2	1271.5	1169.0	1149.2	1041.3	953.2	836.3	820.1	814.7
17.5°	1075.5	1008.9	1007.1	949.6	890.2	850.7	750.0	649.2	604.3	598.9	598.9
20°	805.7	782.3	744.6	737.4	719.4	674.4	584.5	530.5	509.0	510.8	518.0
22.5°	678.0	661.8	627.7	611.5	604.3	564.7	498.2	462.2	451.4	451.4	453.2
25°	606.1	591.7	553.9	528.7	519.8	491.0	438.8	411.8	402.9	402.9	402.9
27.5°	552.1	534.1	494.6	473.0	456.8	424.4	392.1	365.1	356.1	356.1	357.9
30°	514.4	494.6	458.6	429.8	404.7	375.9	348.9	325.5	314.7	312.9	314.7
32.5°	464.0	446.0	410.0	392.1	363.3	329.1	307.5	286.0	275.2	277.0	275.2
35°	361.5	356.1	330.9	336.3	320.1	291.3	271.6	248.2	235.6	233.8	237.4
37.5°	329.1	307.5	278.8	280.6	275.2	264.4	232.0	206.8	197.8	197.8	199.6
40°	303.9	282.4	250.0	233.8	235.6	235.6	201.4	174.4	165.5	163.7	167.3
42.5°	282.4	260.8	224.8	197.8	190.6	199.6	170.9	143.9	134.9	131.3	134.9
45°	268.0	244.6	203.2	172.7	151.1	161.9	140.3	118.7	107.9	107.9	106.1
47.5°	253.6	232.0	187.0	149.3	125.9	120.5	115.1	95.3	84.5	82.7	84.5
50°	241.0	219.4	169.1	129.5	106.1	93.5	93.5	75.5	68.3	64.7	66.5
52.5°	228.4	205.0	152.9	115.1	91.7	75.5	66.5	61.1	55.8	54.0	55.8
55°	210.4	187.0	136.7	98.9	79.1	62.9	52.2	50.4	46.8	43.2	46.8
57.5°	188.8	167.3	120.5	84.5	62.9	48.6	43.2	41.4	37.8	36.0	36.0
59°	176.2	156.5	111.5	73.7	55.8	43.2	39.6	37.8	34.2	30.6	32.4
60°	169.1	152.9	106.1	68.3	50.4	39.6	36.0	34.2	30.6	28.8	30.6
62.5°	149.3	136.7	93.5	55.8	39.6	28.8	25.2	27.0	25.2	23.4	25.2
65°	131.3	120.5	79.1	43.2	30.6	19.8	18.0	23.4	21.6	19.8	21.6
67.5°	116.9	104.3	66.5	32.4	21.6	10.8	12.6	19.8	19.8	18.0	19.8
70°	100.7	89.9	54.0	23.4	10.8	5.4	9.0	14.4	18.0	16.2	18.0
72.5°	82.7	70.1	41.4	16.2	5.4	0.0	5.4	12.6	18.0	16.2	18.0
75°	64.7	52.2	30.6	9.0	0.0	0.0	1.8	10.8	18.0	16.2	18.0
77.5°	46.8	37.8	18.0	1.8	0.0	0.0	1.8	10.8	18.0	16.2	18.0
80°	30.6	27.0	7.2	0.0	0.0	0.0	1.8	10.8	18.0	18.0	19.8
82.5°	19.8	14.4	0.0	0.0	0.0	0.0	3.6	14.4	19.8	21.6	21.6
85°	9.0	0.0	0.0	0.0	0.0	0.0	7.2	18.0	23.4	23.4	23.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.6	12.6	21.6	27.0	27.0	27.0
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°	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6
2.5°	6431.2	6544.5	6704.6	6951.0	7150.6	7465.3	7706.3	8035.5	8368.2	8468.9	8625.3
5°	4733.5	4879.2	5242.5	5573.4	5782.0	6447.4	6868.3	7531.9	8127.2	8413.1	8724.3
7.5°	3287.6	3460.2	3737.2	4199.4	4638.2	5179.5	5859.3	6618.3	7490.5	7898.8	8337.6
10°	2307.4	2523.2	2913.5	3293.0	3845.1	4359.4	5030.2	5868.3	6830.5	7312.5	7862.8
12.5°	1456.7	1649.2	2165.3	2591.6	3280.4	3877.4	4496.1	5255.1	6370.1	6864.7	7442.0
15°	832.7	994.5	1235.5	1782.3	2546.6	3336.1	4107.6	4988.9	6134.5	6744.2	7368.2
17.5°	620.5	663.6	771.5	1080.9	1776.9	2699.5	3749.8	4908.0	6294.6	7010.3	7722.5
20°	521.5	550.3	600.7	723.0	1133.0	2079.0	3400.9	4922.3	6812.5	7711.7	8387.9
22.5°	467.6	485.6	526.9	606.1	773.3	1514.3	2992.6	5006.9	7440.2	8573.2	9353.7
25°	410.0	433.4	469.4	537.7	643.8	1050.3	2589.8	5195.7	8319.6	9666.6	10400.4
27.5°	365.1	386.7	422.6	485.6	564.7	802.1	2120.4	5357.6	9247.6	10767.3	11368.0
30°	320.1	341.7	377.7	428.0	500.0	649.2	1615.0	5452.9	10148.6	11592.8	12055.0
32.5°	282.4	300.3	334.5	379.5	438.8	550.3	1273.3	5354.0	10837.4	12342.7	12652.1
35°	244.6	266.2	294.9	336.3	388.5	469.4	1059.3	5012.3	11429.1	13114.3	13225.8
37.5°	205.0	230.2	260.8	298.5	339.9	431.6	850.7	4634.6	12062.2	14076.4	13893.0
40°	172.7	196.0	224.8	266.2	303.9	395.7	654.6	4231.7	12745.6	14979.2	14621.4
42.5°	140.3	165.5	199.6	237.4	300.3	345.3	507.2	3814.5	13358.8	15765.2	15279.6
45°	111.5	133.1	169.1	217.6	298.5	296.7	392.1	3402.7	13821.0	16326.3	15770.6
47.5°	88.1	106.1	142.1	212.2	275.2	251.8	314.7	3147.3	14306.6	16831.6	16146.4
50°	70.1	88.1	122.3	221.2	241.0	215.8	264.4	3188.6	14776.0	17088.8	16301.1
52.5°	59.3	77.3	106.1	174.4	185.2	188.8	232.0	3379.3	15382.1	17364.0	16608.6
55°	52.2	68.3	89.9	122.3	143.9	169.1	212.2	3517.8	16193.2	17953.9	17286.7
57.5°	41.4	59.3	80.9	104.3	118.7	147.5	196.0	3528.5	16927.0	18711.0	18187.7
59°	37.8	54.0	75.5	98.9	106.1	133.1	185.2	3436.8	16953.9	18824.3	18601.3
60°	34.2	52.2	71.9	91.7	100.7	125.9	176.2	3330.7	16709.3	18644.5	18772.2
62.5°	28.8	45.0	62.9	73.7	86.3	104.3	152.9	2945.9	15524.2	17829.8	18455.6
65°	25.2	39.6	54.0	61.1	71.9	89.9	134.9	2357.8	14214.9	16725.5	17549.2
67.5°	23.4	36.0	46.8	52.2	62.9	82.7	120.5	1665.4	12519.0	15324.5	16187.8
70°	21.6	34.2	41.4	48.6	55.8	70.1	102.5	971.2	9643.3	12867.9	13779.7
72.5°	21.6	32.4	36.0	41.4	48.6	62.9	95.3	525.1	6593.1	9815.9	10993.9
75°	21.6	30.6	32.4	36.0	43.2	57.6	84.5	275.2	4262.3	6819.7	8416.7
77.5°	21.6	28.8	32.4	34.2	41.4	50.4	73.7	172.7	2839.7	4776.7	5688.5
80°	23.4	28.8	30.6	34.2	39.6	46.8	61.1	115.1	1669.0	2873.9	3462.0
82.5°	25.2	28.8	32.4	36.0	41.4	45.0	54.0	71.9	769.7	1901.0	2150.9
85°	27.0	30.6	34.2	37.8	43.2	45.0	50.4	52.2	125.9	857.9	1160.0
87.5°	28.8	32.4	36.0	39.6	46.8	46.8	46.8	46.8	43.2	91.7	233.8
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: P457802

CATALOG NUMBER: GALN-SA9A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6	7819.6
2.5°	8823.2	9026.4	9168.5	9204.4	9101.9	9055.2	8925.7	8724.3	8602.0	8596.6
5°	9298.0	9774.5	10105.5	10161.2	9963.4	9628.9	9231.4	8718.9	8418.5	8328.6
7.5°	9217.0	10051.5	10583.8	10661.2	10328.5	9690.0	8920.3	8094.8	7767.5	7629.0
10°	8884.3	9902.2	10663.0	10785.3	10341.1	9441.8	8463.5	7542.7	7136.2	7030.1
12.5°	8600.2	9628.9	10305.1	10474.1	10137.8	9240.4	8190.1	7188.4	6753.2	6654.2
15°	8476.1	9305.2	9718.8	9805.1	9749.4	9114.5	8161.3	7134.4	6636.3	6528.4
17.5°	8600.2	9030.0	9082.1	9170.3	9294.4	9101.9	8438.3	7427.6	6889.8	6756.8
20°	8925.7	8790.8	8575.0	8612.8	8896.9	9154.1	8931.1	8076.8	7422.2	7280.1
22.5°	9479.6	8731.4	8242.3	8209.9	8569.6	9328.5	9654.1	8956.3	8197.3	8057.0
25°	10159.4	8880.7	8120.0	8049.8	8441.9	9583.9	10440.0	10033.5	9204.4	8990.4
27.5°	10900.4	9190.1	8120.0	8051.6	8431.1	9810.5	11112.6	10986.7	10247.5	10013.7
30°	11306.8	9445.4	8236.9	8159.5	8564.2	9941.8	11472.3	11833.8	11031.7	10742.1
32.5°	11670.1	9799.7	8465.3	8319.6	8843.0	10136.0	11794.2	12553.1	11655.7	11461.5
35°	12004.6	10179.2	8780.0	8611.0	9209.8	10402.2	12150.3	13308.5	12524.4	12231.2
37.5°	12373.3	10619.8	9271.0	9127.1	9823.1	10920.2	12572.9	14301.2	13378.6	13009.9
40°	12774.4	11130.6	10078.5	10017.3	10797.9	11506.4	13107.1	15360.5	14353.4	13934.3
42.5°	13182.6	11718.7	11067.6	11168.3	11902.1	12328.3	13655.6	16175.2	15151.9	14689.7
45°	13553.1	12470.4	12353.5	12851.7	13189.8	13130.4	14062.0	16748.9	15847.9	15405.5
47.5°	14020.7	13565.7	13909.2	14677.1	14686.1	14002.7	14369.6	17218.3	16446.8	16004.4
50°	14544.0	14858.8	15918.0	16700.4	16489.9	14860.5	14729.3	17774.0	17065.4	16711.1
52.5°	15150.1	16306.5	17774.0	18642.7	18151.7	15795.7	15328.1	18374.7	18047.4	17707.5
55°	15855.1	17293.8	19624.6	20317.0	19822.5	16957.5	16238.2	19189.4	19157.0	18925.0
57.5°	16651.8	18336.9	20696.5	21633.5	21192.9	18320.8	17509.7	19957.3	19835.0	19705.6
59°	17281.3	18872.9	21169.5	22140.7	21874.5	19275.7	18363.9	20435.7	19991.5	19797.3
60°	17662.5	19236.2	21343.9	22209.0	22147.8	19844.0	18905.3	20669.5	19989.7	19719.9
62.5°	18793.7	19871.0	21277.4	21905.1	22144.2	20933.9	20493.3	20926.7	19619.2	19223.6
65°	19196.6	19660.6	20175.0	20097.6	20302.6	20878.1	21507.6	20644.3	18827.9	18265.0
67.5°	18412.5	17353.2	17534.8	17018.7	16918.0	18561.7	21095.8	19263.1	17279.5	16590.7
70°	15520.6	13294.1	13202.4	13439.8	12788.7	15027.8	18943.0	16603.2	14723.9	13943.3
72.5°	12216.8	9395.1	8621.7	9495.8	9476.0	11465.1	15736.4	11781.6	9947.2	9880.7
75°	9607.3	6540.9	5740.6	5882.7	6156.1	8299.8	12533.4	7481.5	6125.5	5582.4
77.5°	6449.2	4634.6	4323.5	4149.0	4444.0	5328.8	7929.3	4057.3	3435.0	3253.4
80°	3717.4	3366.7	3823.5	3471.0	3629.3	3357.7	3944.0	1861.4	1544.9	1672.6
82.5°	2418.9	1917.1	2043.0	1517.9	2075.4	2093.4	1266.1	550.3	465.8	494.6
85°	1512.5	899.2	505.4	359.7	715.8	1316.5	395.7	34.2	39.6	34.2
87.5°	392.1	149.3	62.9	93.5	115.1	102.5	91.7	5.4	1.8	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)