

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: P453105

Luminaire Tested: **GALN-SA4A-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15594 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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

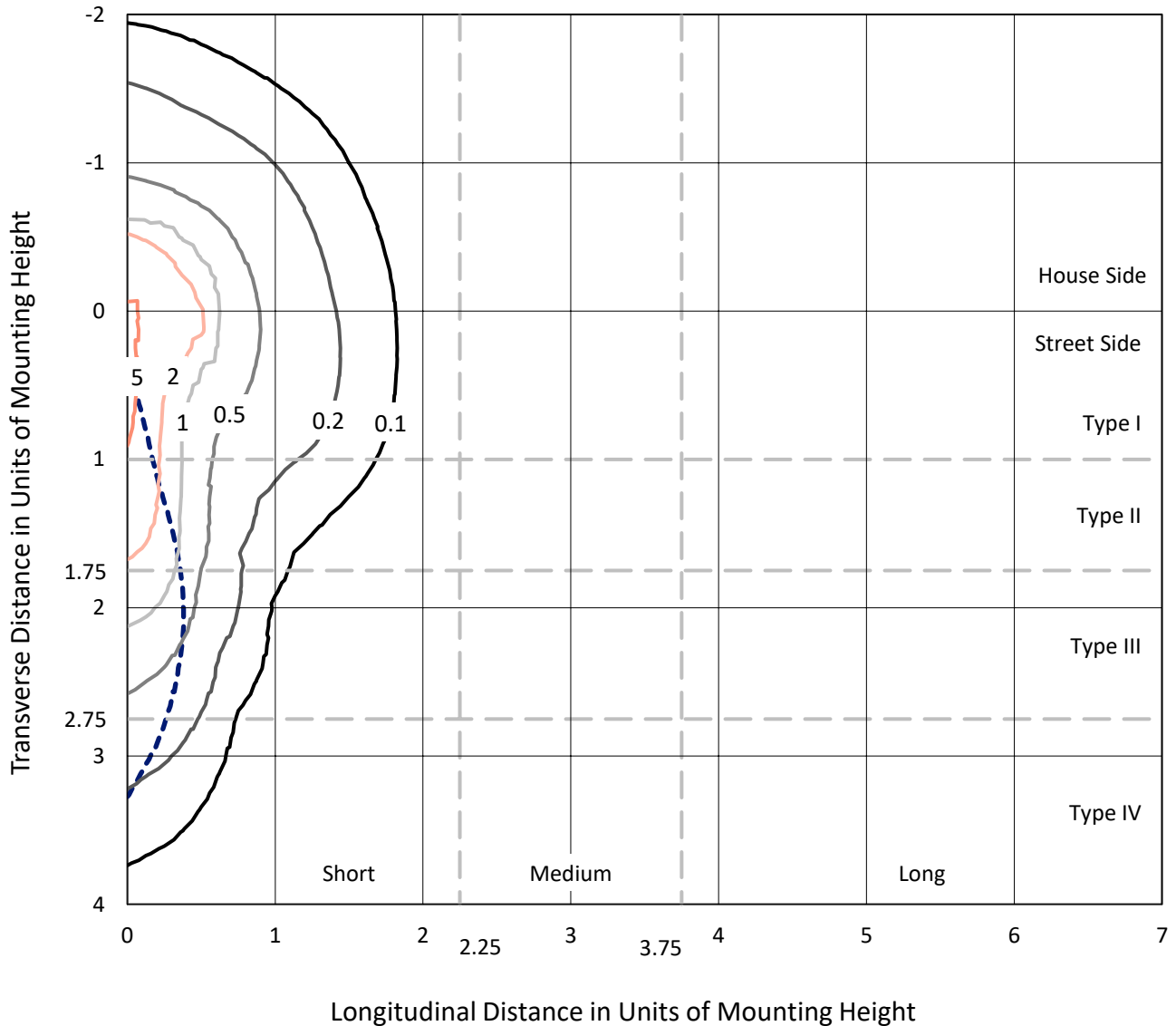




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Iso-Footcandle Lines of Horizontal Illumination

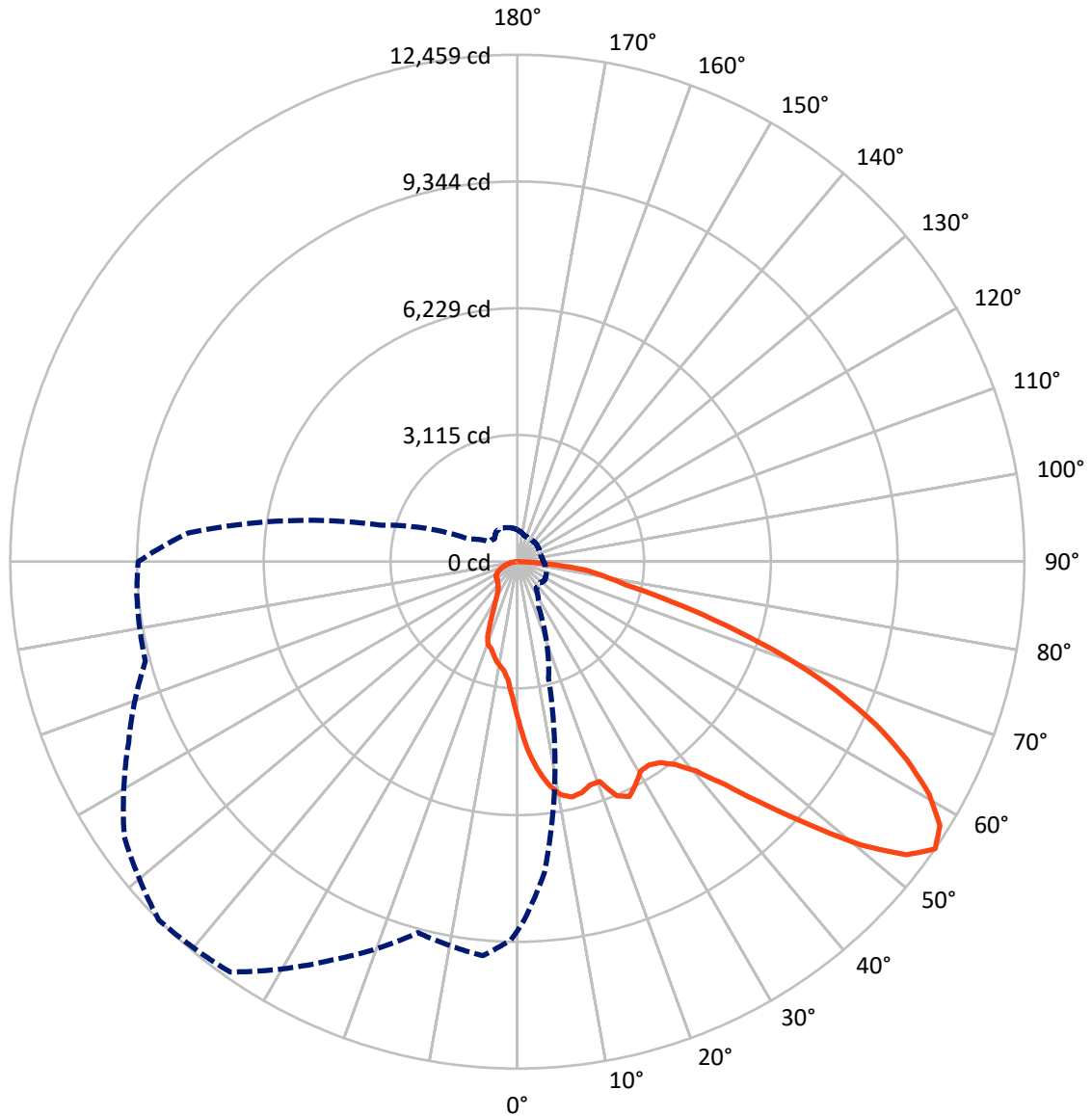
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3411.1	0.0	3411.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12182.9	0.0	12182.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	15594.0	0.0	15594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.7	2.1
10°-20°	880.0	5.6
20°-30°	1520.2	9.7
30°-40°	1766.7	11.3
40°-50°	2464.9	15.8
50°-60°	3344.5	21.4
60°-70°	3181.9	20.4
70°-80°	1719.0	11.0
80°-90°	385.2	2.5
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°	15594.0	100.0
0°-180°	15594.0	100.0

Coefficient of Utilization



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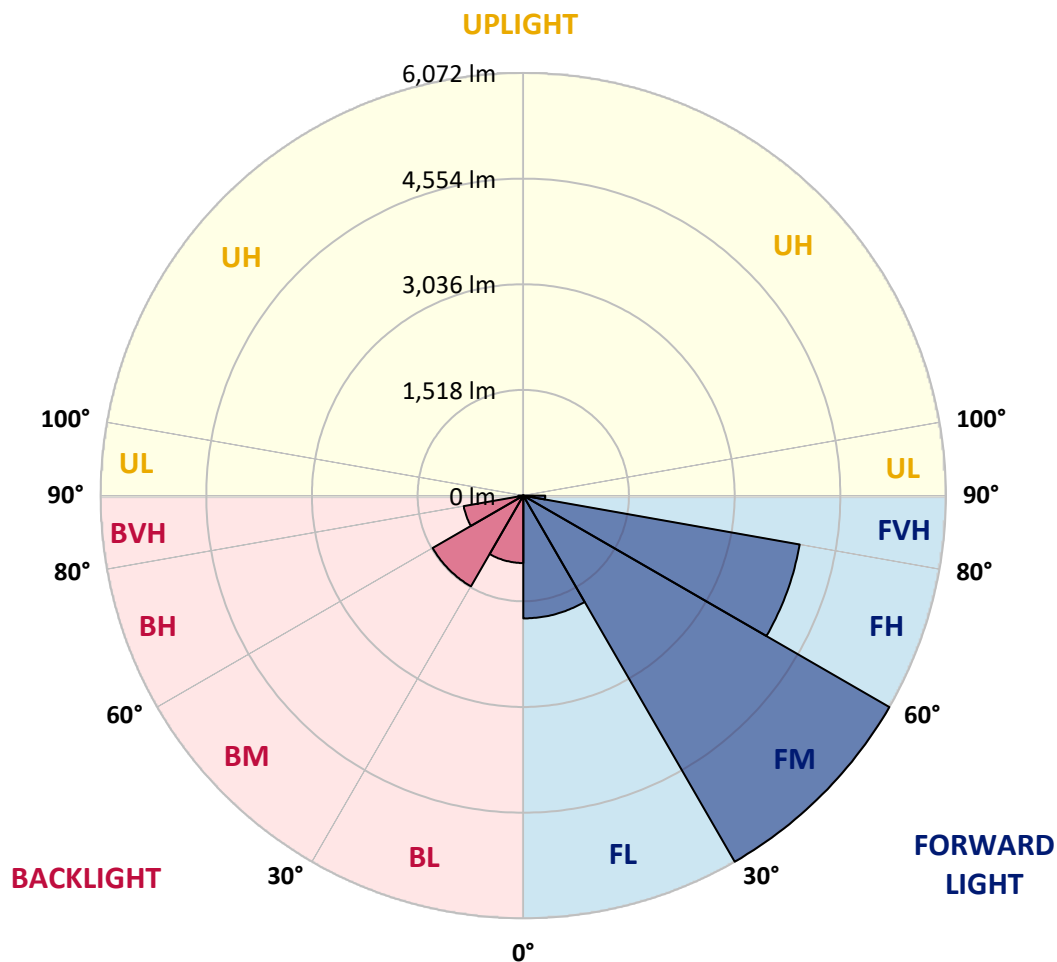
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1763.7	11.3			
FM	(30°-60°)	6072.0	38.9			
FH	(60°-80°)	4032.3	25.9			G2/5000
FVH	(80°-90°)	314.8	2.0			G3/500
BL	(0°-30°)	968.1	6.2	B2/1000		
BM	(30°-60°)	1504.1	9.6	B2/2500		
BH	(60°-80°)	868.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	70.4	0.5			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°	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5
2.5°	4347.6	4331.2	4284.9	4163.5	4041.1	3916.6	3820.9	3701.6	3577.1	3510.2	3424.8
5°	4407.3	4388.8	4279.7	4006.1	3758.1	3497.9	3290.0	3107.9	3033.9	2924.8	2837.4
7.5°	4267.4	4259.2	4095.6	3702.6	3363.1	3022.6	2787.0	2640.9	2508.2	2458.8	2469.1
10°	4139.8	4106.9	3902.2	3388.8	2992.7	2716.0	2547.3	2404.3	2310.6	2286.0	2291.1
12.5°	4033.9	3989.6	3747.9	3177.9	2831.2	2610.0	2395.0	2245.8	2160.4	2184.1	2264.3
15°	4012.2	3952.6	3683.0	3105.9	2742.7	2457.8	2222.2	2050.4	1986.6	2038.0	2166.6
17.5°	4152.2	4077.1	3794.1	3129.6	2658.4	2302.4	2013.3	1816.8	1763.3	1845.6	2013.3
20°	4601.7	4490.6	4140.8	3266.4	2650.1	2225.3	1891.9	1694.4	1717.0	1873.4	2048.3
22.5°	5433.0	5266.3	4747.8	3466.0	2693.3	2205.7	1867.2	1764.4	1888.8	2021.6	2136.8
25°	5597.6	5466.9	4856.9	3511.2	2684.1	2192.3	1937.2	1988.6	2127.5	2193.4	2153.2
27.5°	5690.2	5541.0	4849.7	3287.0	2400.1	1988.6	1851.8	1937.2	1972.2	1908.4	1799.3
30°	5906.2	5750.9	4972.1	3051.4	1976.3	1475.3	1293.2	1258.2	1281.9	1294.2	1255.1
32.5°	6203.6	6050.3	5202.5	2897.0	1708.8	1220.1	1041.1	991.7	980.4	967.1	951.6
35°	6588.3	6352.7	5428.9	2798.3	1598.7	1128.6	964.0	925.9	910.5	892.0	875.5
37.5°	6979.3	6732.3	5714.9	2694.4	1525.7	1064.8	912.5	895.0	868.3	848.7	825.1
40°	7394.9	7118.1	5975.2	2603.8	1454.7	1023.6	875.5	873.4	838.5	815.8	788.0
42.5°	7755.0	7470.0	6207.7	2548.3	1400.2	980.4	852.9	859.0	823.0	789.1	753.1
45°	8041.0	7761.1	6422.7	2548.3	1355.9	937.2	848.7	844.6	808.6	766.4	725.3
47.5°	8292.0	8002.9	6632.6	2613.1	1328.2	901.2	826.1	833.3	796.3	742.8	702.7
50°	8486.4	8231.3	6915.5	2713.9	1300.4	872.4	797.3	836.4	786.0	730.4	684.1
52.5°	8734.4	8506.0	7256.0	2851.8	1276.7	840.5	771.6	836.4	785.0	731.5	681.1
55°	9078.0	8837.2	7666.5	2966.0	1238.7	810.7	749.0	812.7	781.9	726.3	672.8
57.5°	9318.7	9138.7	7956.6	3042.1	1184.1	772.6	728.4	790.1	768.5	706.8	648.1
58°	9330.0	9154.1	7998.8	3059.6	1170.8	765.4	723.2	779.8	762.3	698.5	639.9
60°	9200.4	9049.2	8007.0	3034.9	1094.6	729.4	696.5	737.6	729.4	650.2	595.7
62.5°	8729.2	8567.7	7674.7	2834.3	993.8	685.2	655.3	681.1	662.5	582.3	531.9
65°	8059.5	7762.2	6991.6	2519.5	921.8	637.8	599.8	601.8	582.3	524.7	480.4
67.5°	7167.5	6835.2	5919.6	2123.4	867.3	585.4	533.9	528.8	505.1	468.1	432.1
70°	6069.8	5842.5	4810.6	1727.3	806.6	527.8	459.9	456.8	442.4	414.6	382.7
72.5°	4919.6	4630.5	3884.7	1382.7	732.5	472.2	390.9	397.1	378.6	359.0	330.2
75°	3630.6	3441.3	3003.0	1109.0	632.7	411.5	326.1	328.2	320.0	299.4	276.7
77.5°	2390.9	2334.3	2148.1	728.4	486.6	327.2	266.5	268.5	262.3	243.8	220.2
80°	1609.0	1570.9	1455.7	469.1	325.1	236.6	205.8	207.8	206.8	187.2	155.3
82.5°	991.7	975.3	938.2	316.9	225.3	169.7	135.8	142.0	153.3	131.7	106.0
85°	468.1	469.1	566.9	172.8	132.7	109.1	74.1	79.2	79.2	79.2	59.7
87.5°	60.7	63.8	78.2	73.0	48.4	41.2	26.7	22.6	19.5	25.7	18.5
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°	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5
2.5°	3395.0	3374.4	3330.2	3319.9	3313.7	3331.2	3284.9	3297.2	3276.7	3334.3	3325.0
5°	2842.5	2844.6	2880.6	2904.3	2912.5	2904.3	2873.4	2819.9	2778.7	2762.3	2766.4
7.5°	2449.5	2485.5	2547.3	2616.2	2678.9	2697.5	2680.0	2578.1	2467.0	2397.1	2374.4
10°	2318.9	2367.2	2438.2	2492.7	2548.3	2592.5	2601.8	2522.6	2390.9	2225.3	2160.4
12.5°	2326.1	2391.9	2459.8	2477.3	2472.2	2489.7	2481.4	2468.0	2381.6	2170.7	2062.7
15°	2258.2	2336.4	2383.7	2374.4	2358.0	2342.5	2320.9	2287.0	2256.1	2108.0	1988.6
17.5°	2101.8	2182.0	2221.1	2224.2	2224.2	2220.1	2167.6	2155.3	2151.2	2079.2	2006.1
20°	2130.6	2174.8	2157.4	2128.5	2136.8	2164.6	2133.7	2127.5	2151.2	2183.1	2169.7
22.5°	2147.1	2131.6	2000.0	1872.4	1843.6	1930.0	1947.5	2016.4	2112.1	2227.3	2302.4
25°	2045.2	1920.7	1685.1	1541.1	1459.8	1540.1	1645.0	1772.6	1915.6	2063.7	2151.2
27.5°	1709.8	1615.2	1446.5	1316.8	1245.9	1258.2	1347.7	1464.0	1596.7	1696.5	1760.2
30°	1288.0	1245.9	1158.4	1114.2	1071.0	1060.7	1098.7	1143.0	1201.6	1214.0	1230.4
32.5°	948.5	942.4	947.5	933.1	924.9	923.8	912.5	922.8	929.0	936.2	921.8
35°	858.0	849.8	835.4	831.3	826.1	828.2	823.0	817.9	822.0	828.2	832.3
37.5°	811.7	799.4	778.8	771.6	771.6	774.7	766.4	764.4	771.6	791.1	801.4
40°	775.7	761.3	737.6	728.4	734.5	742.8	731.5	727.3	744.8	765.4	781.9
42.5°	741.8	730.4	707.8	697.5	702.7	718.1	701.6	698.5	721.2	743.8	763.4
45°	712.9	701.6	681.1	675.9	678.0	692.4	681.1	681.1	702.7	727.3	744.8
47.5°	690.3	675.9	662.5	658.4	660.5	668.7	666.7	666.7	687.2	712.9	730.4
50°	667.7	655.3	637.8	639.9	645.0	656.4	655.3	658.4	679.0	710.9	729.4
52.5°	657.4	638.9	619.3	621.4	636.8	650.2	646.1	649.2	672.8	732.5	759.2
55°	646.1	621.4	598.8	601.8	619.3	638.9	633.7	637.8	665.6	746.9	783.9
57.5°	624.5	595.7	571.0	573.0	598.8	619.3	611.1	616.2	649.2	731.5	770.6
58°	615.2	590.5	566.9	567.9	592.6	615.2	606.0	610.1	644.0	727.3	764.4
60°	576.1	561.7	541.1	542.2	565.8	585.4	580.2	584.3	617.3	697.5	725.3
62.5°	522.6	514.4	509.2	509.2	523.6	542.2	547.3	552.5	582.3	630.6	655.3
65°	465.0	465.0	466.0	466.0	475.3	499.0	502.0	515.4	543.2	566.9	585.4
67.5°	425.9	423.9	425.9	420.8	424.9	439.3	454.7	467.1	495.9	512.3	518.5
70°	375.5	374.5	375.5	368.3	373.4	385.8	396.1	416.7	446.5	458.8	461.9
72.5°	326.1	326.1	328.2	323.0	323.0	336.4	343.6	366.2	394.0	401.2	402.3
75°	274.7	277.8	277.8	270.6	272.6	280.9	290.1	308.6	334.4	339.5	339.5
77.5°	218.1	229.4	229.4	222.2	225.3	226.3	238.7	247.9	267.5	269.5	261.3
80°	158.4	169.7	179.0	172.8	178.0	171.8	179.0	185.2	204.7	195.5	182.1
82.5°	113.2	121.4	128.6	129.6	124.5	113.2	122.4	123.5	132.7	120.4	113.2
85°	62.8	70.0	79.2	75.1	66.9	59.7	62.8	64.8	63.8	60.7	56.6
87.5°	16.5	17.5	19.5	14.4	13.4	11.3	15.4	15.4	17.5	18.5	17.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5
2.5°	3332.2	3377.5	3475.2	3549.3	3639.8	3749.9	3879.5	4010.2	4151.1	4195.4	4257.1
5°	2757.1	2870.3	2917.6	3052.4	3186.1	3386.7	3600.7	3848.7	4120.3	4250.9	4376.4
7.5°	2355.9	2416.6	2466.0	2564.8	2725.2	2969.1	3237.6	3547.2	3932.0	4122.3	4306.5
10°	2139.9	2146.0	2206.7	2329.2	2469.1	2684.1	2938.2	3284.9	3713.9	3945.4	4161.4
12.5°	1996.9	1970.1	2036.0	2163.5	2322.0	2520.5	2754.0	3084.3	3556.5	3794.1	4055.5
15°	1871.4	1829.2	1878.6	2009.2	2165.6	2399.1	2650.1	2999.9	3494.8	3771.5	4061.6
17.5°	1874.4	1758.2	1775.7	1885.8	2041.1	2278.8	2583.3	2996.8	3588.4	3907.3	4250.9
20°	2105.9	1919.7	1840.5	1861.1	2011.3	2270.5	2614.1	3140.9	3896.0	4361.0	4728.3
22.5°	2333.3	2221.1	2093.6	2051.4	2133.7	2405.3	2810.6	3481.4	4564.7	5265.3	5928.9
25°	2254.1	2349.7	2317.8	2258.2	2276.7	2502.0	2944.4	3761.2	5084.2	5873.3	6496.8
27.5°	1803.5	1977.3	2012.3	2011.3	2018.5	2203.6	2648.1	3573.0	5149.1	5989.6	6585.2
30°	1267.5	1282.9	1301.4	1337.4	1370.3	1536.0	2072.0	3136.8	5120.2	6042.0	6638.7
32.5°	914.6	935.2	960.9	1010.3	1088.5	1299.4	1812.7	2997.9	5272.5	6259.1	6795.1
35°	836.4	860.1	884.8	941.3	1015.4	1210.9	1709.8	2940.3	5522.5	6610.9	7076.0
37.5°	811.7	838.5	860.1	901.2	960.9	1147.1	1616.2	2901.2	5778.7	6983.4	7452.5
40°	794.2	825.1	842.6	875.5	916.6	1088.5	1532.9	2870.3	6026.6	7323.9	7755.0
42.5°	778.8	810.7	833.3	857.0	890.9	1036.0	1458.8	2839.4	6241.6	7654.1	8056.4
45°	760.3	800.4	829.2	847.7	877.6	991.7	1402.2	2814.7	6486.5	7947.3	8360.9
47.5°	744.8	789.1	825.1	846.7	858.0	960.9	1357.0	2848.7	6780.7	8253.9	8643.8
50°	745.9	788.0	833.3	867.3	837.4	935.2	1329.2	2983.5	7163.4	8618.1	8867.1
52.5°	778.8	830.2	866.2	874.5	808.6	904.3	1314.8	3219.1	7616.1	8940.1	9092.4
55°	815.8	869.3	908.4	903.3	793.2	865.2	1311.7	3470.1	8111.9	9315.6	9385.6
57.5°	802.4	880.6	940.3	913.6	794.2	827.1	1298.3	3672.7	8526.5	9596.5	9675.7
58°	798.3	876.5	944.4	911.5	791.1	815.8	1295.2	3690.2	8584.2	9616.0	9716.8
60°	758.2	840.5	941.3	896.1	773.6	785.0	1261.3	3746.8	8568.7	9515.2	9741.5
62.5°	685.2	753.1	870.3	821.0	720.1	743.8	1185.2	3676.9	8151.0	9029.6	9380.4
65°	602.9	653.3	731.5	722.2	644.0	701.6	1081.2	3400.1	7314.6	8241.6	8610.9
67.5°	541.1	582.3	631.7	618.3	579.2	645.0	969.1	2932.0	6376.4	7295.1	7760.1
70°	478.4	510.3	535.0	525.7	513.4	589.5	869.3	2379.6	5477.2	6395.9	6846.5
72.5°	414.6	444.4	465.0	451.6	444.4	530.9	788.0	1846.7	4326.0	5276.6	5855.8
75°	346.7	376.5	390.9	375.5	371.4	468.1	667.7	1379.6	3245.8	4067.8	4567.8
77.5°	268.5	300.4	318.9	313.8	315.8	384.8	539.1	944.4	2320.9	2772.6	3299.3
80°	188.3	223.2	235.6	230.4	244.8	293.2	380.6	599.8	1600.8	1799.3	2170.7
82.5°	116.3	149.2	151.2	156.4	166.7	217.1	287.0	365.2	1005.1	1039.1	1308.6
85°	58.6	71.0	76.1	84.4	93.6	132.7	163.6	226.3	647.1	489.7	731.5
87.5°	19.5	20.6	24.7	30.9	38.1	54.5	70.0	92.6	160.5	88.5	226.3
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: P453105

CATALOG NUMBER: GALN-SA4A-760-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5	3913.5
2.5°	4381.6	4469.0	4532.8	4591.5	4534.9	4529.7	4474.2	4384.7	4347.6	4347.6
5°	4639.8	4844.5	5010.2	5116.1	5070.9	4961.8	4781.8	4552.4	4428.9	4407.3
7.5°	4710.8	5115.1	5422.7	5531.8	5455.6	5214.9	4870.3	4483.4	4306.5	4267.4
10°	4667.6	5193.3	5644.9	5817.8	5711.8	5347.6	4877.5	4403.2	4185.1	4139.8
12.5°	4622.3	5203.6	5686.1	5936.1	5867.1	5454.6	4929.9	4350.7	4098.7	4033.9
15°	4655.2	5207.7	5635.7	5893.9	5938.1	5583.2	5016.3	4388.8	4081.2	4012.2
17.5°	4863.1	5285.9	5563.7	5772.5	5927.8	5758.1	5262.2	4570.9	4237.6	4152.2
20°	5297.2	5473.1	5604.8	5766.3	6016.3	6115.1	5765.3	5070.9	4676.8	4601.7
22.5°	6554.4	6522.5	6252.9	6249.8	6612.0	7008.1	6984.4	6087.3	5494.7	5433.0
25°	7025.5	6877.4	6487.5	6392.8	6552.3	7163.4	7074.9	6295.1	5747.8	5597.6
27.5°	6841.4	6474.1	6218.0	6196.4	6143.9	6721.0	6934.0	6379.5	5836.3	5690.2
30°	6830.1	6290.0	5923.7	5966.9	6017.3	6568.8	7012.2	6643.9	6062.6	5906.2
32.5°	6857.9	6315.7	5945.3	5953.6	6103.8	6591.4	7098.6	6931.9	6359.9	6203.6
35°	6970.0	6461.8	6083.2	6063.6	6298.2	6739.5	7245.7	7384.6	6766.3	6588.3
37.5°	7151.1	6752.9	6335.2	6330.1	6670.6	7007.0	7428.8	7841.4	7170.6	6979.3
40°	7417.5	7093.4	6783.8	6756.0	7176.8	7442.2	7666.5	8328.0	7640.8	7394.9
42.5°	7739.5	7501.9	7375.3	7485.4	7889.7	7930.9	8036.8	8777.6	8041.0	7755.0
45°	8037.9	8026.6	8202.5	8494.6	8730.2	8483.3	8423.7	9079.0	8351.6	8041.0
47.5°	8392.8	8699.4	9230.2	9658.2	9905.1	9126.3	8753.9	9275.5	8578.0	8292.0
50°	8752.9	9504.9	10352.6	10949.3	11001.8	9824.9	8981.3	9460.7	8783.7	8486.4
52.5°	9131.5	10147.9	11276.5	11969.9	11868.0	10432.9	9201.4	9586.2	8995.7	8734.4
55°	9460.7	10541.9	11792.9	12458.5	12309.4	10803.2	9439.1	9722.0	9298.1	9078.0
57.5°	9644.8	10574.8	11664.3	12245.6	12084.1	10731.2	9548.1	9822.8	9491.5	9318.7
58°	9671.6	10530.6	11550.1	12122.1	11957.5	10670.5	9547.1	9818.7	9503.9	9330.0
60°	9647.9	10243.6	11125.2	11634.5	11461.7	10289.9	9508.0	9741.5	9347.5	9200.4
62.5°	9428.8	9745.6	10391.7	10762.1	10712.7	9695.2	9347.5	9450.4	8871.2	8729.2
65°	9140.7	9066.7	9452.4	9714.8	9751.8	9249.8	9188.0	8820.8	8260.1	8059.5
67.5°	8790.9	8297.1	8296.1	8445.3	8507.0	8564.6	8855.8	8136.6	7379.4	7167.5
70°	8197.3	7110.9	6783.8	6959.7	6908.3	7394.9	8262.1	7175.8	6317.7	6069.8
72.5°	7108.9	5642.9	5119.2	5345.5	5215.9	5799.2	7229.2	5905.2	5224.2	4919.6
75°	5762.2	4221.1	3681.0	3888.8	3808.5	4399.1	6015.3	4289.0	3746.8	3630.6
77.5°	4474.2	3058.6	2744.8	2716.0	2775.7	3273.6	4412.4	2896.0	2470.1	2390.9
80°	2874.4	2189.2	2207.8	2170.7	2201.6	2063.7	2678.9	1847.7	1672.8	1609.0
82.5°	1891.9	1525.7	1818.9	1679.0	1594.6	1387.8	1757.2	1209.8	1026.7	991.7
85°	1289.1	1123.4	1022.6	781.9	920.8	1068.9	1317.9	651.2	516.4	468.1
87.5°	582.3	390.9	287.0	177.0	279.8	323.0	639.9	76.1	58.6	60.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)