

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: P526832

Luminaire Tested: **GALN-SA1D-740-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5829 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

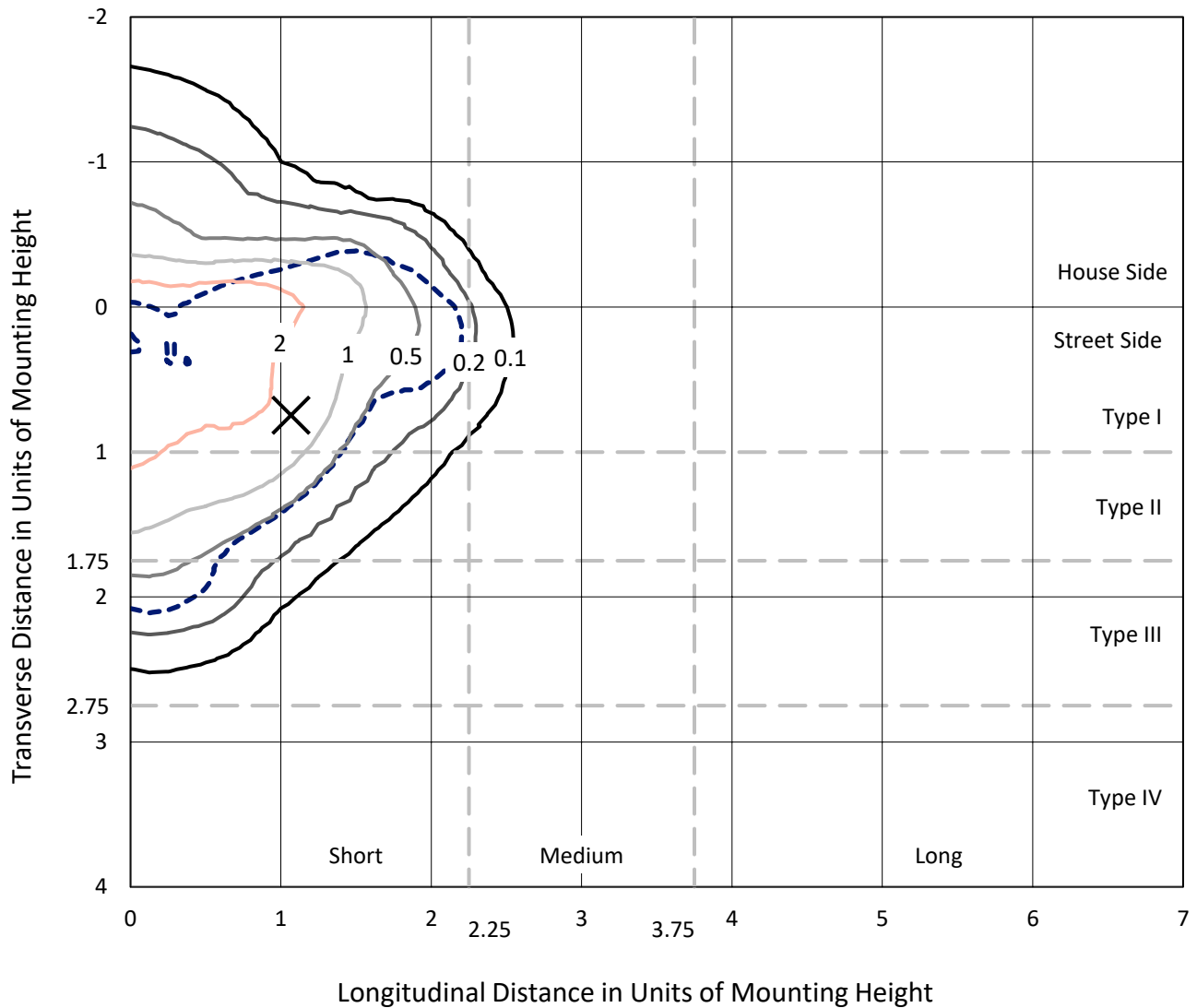
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

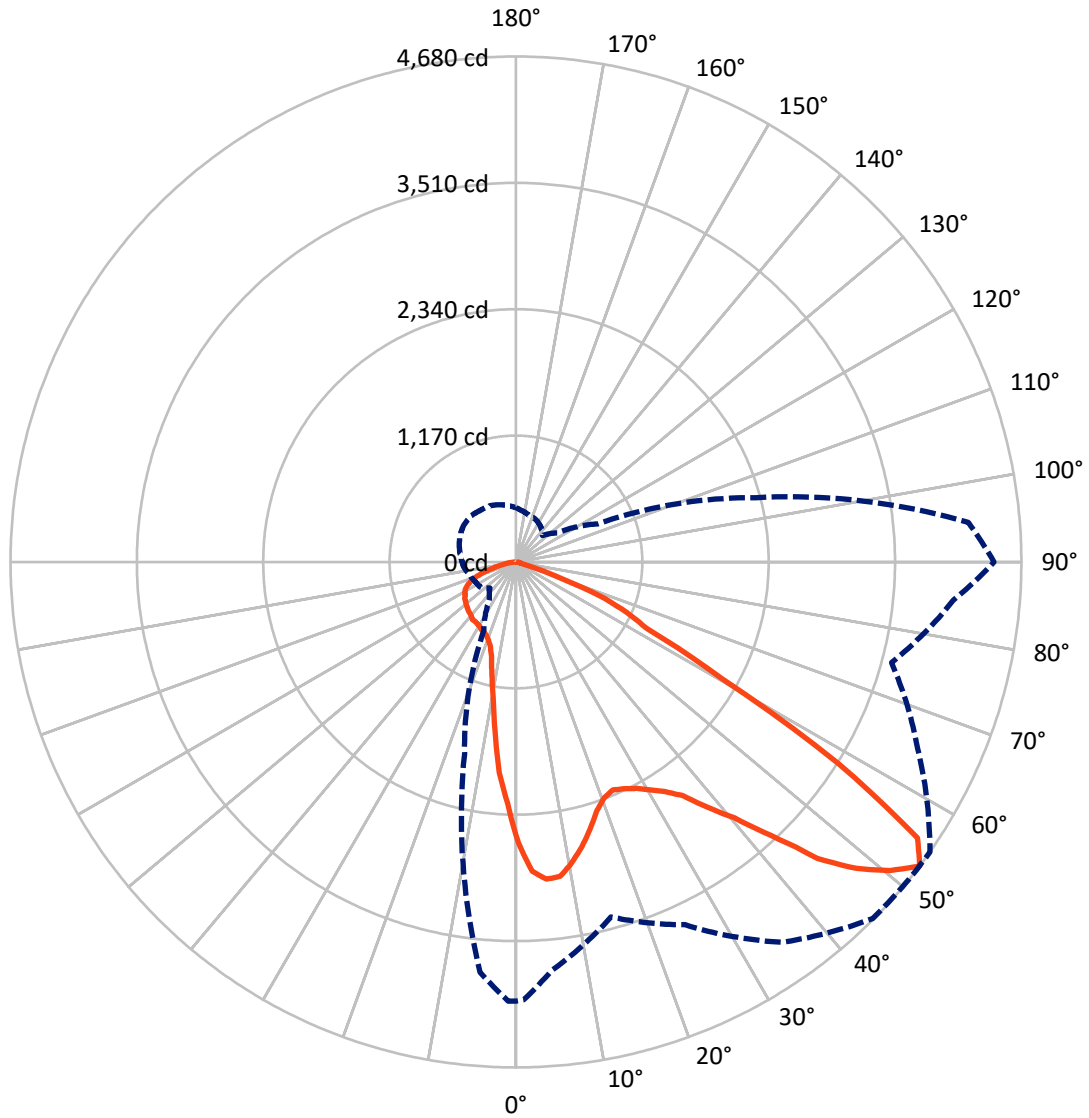
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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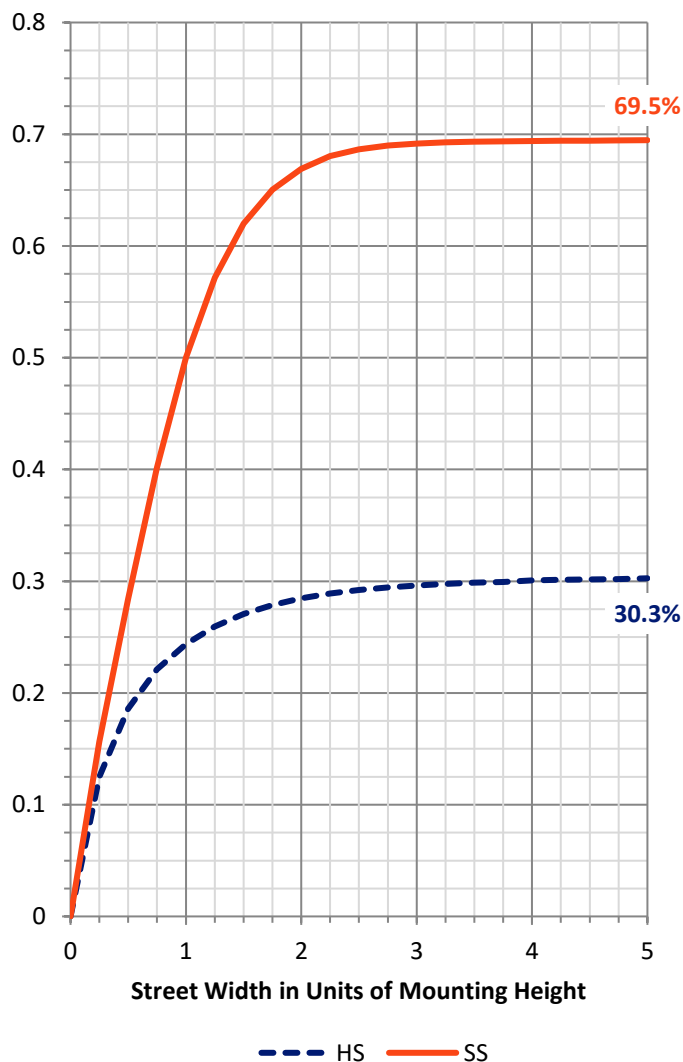
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.2	0.0	1778.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4050.8	0.0	4050.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	5829.0	0.0	5829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	3.4
10°-20°	428.3	7.3
20°-30°	649.5	11.1
30°-40°	938.4	16.1
40°-50°	1253.9	21.5
50°-60°	1399.7	24.0
60°-70°	767.8	13.2
70°-80°	166.0	2.8
80°-90°	26.9	0.5
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°	5829.0	100.0
0°-180°	5829.0	100.0

Coefficient of Utilization

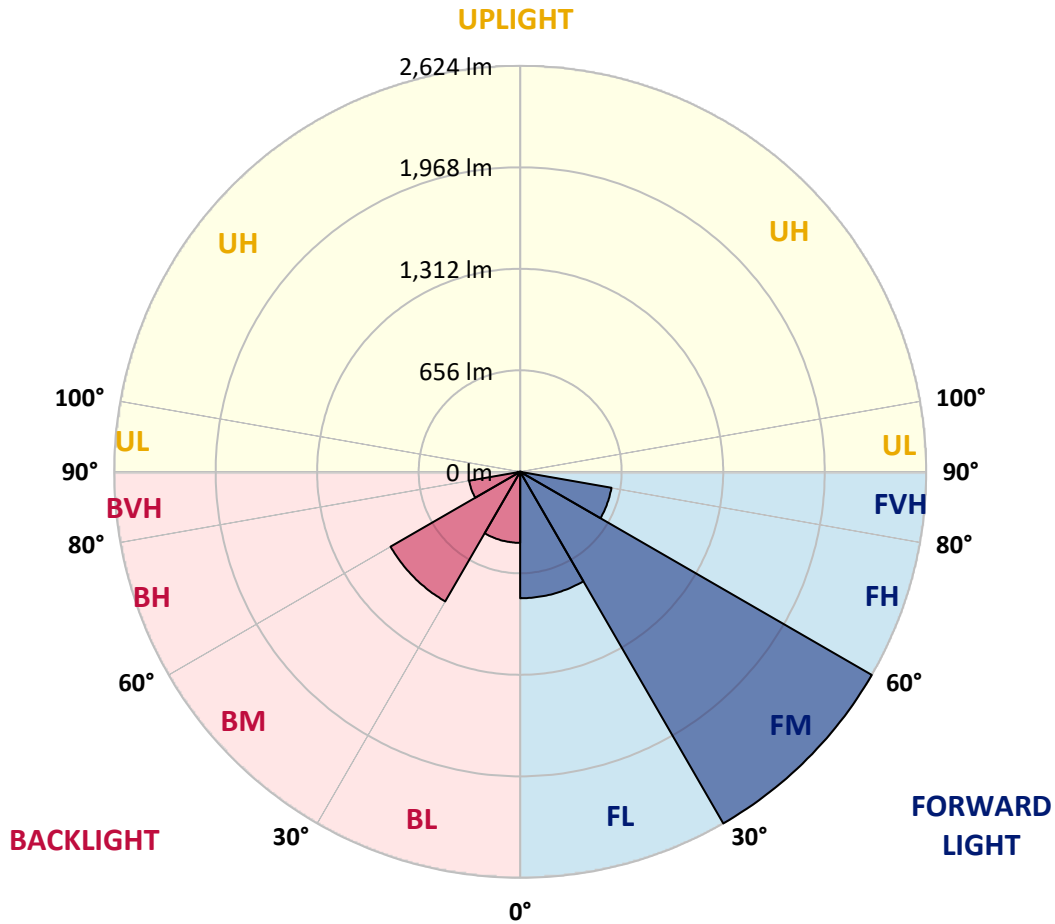


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.3	14.0			
FM (30°-60°)	2624.5	45.0			
FH (60°-80°)	599.1	10.3			G0/660
FVH (80°-90°)	9.9	0.2			G0/10
BL (0°-30°)	459.1	7.9	B1/500		
BM (30°-60°)	967.5	16.6	B1/1000		
BH (60°-80°)	334.7	5.7	B1/500		G1/500
BVH (80°-90°)	16.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2728.7	2713.4	2727.0	2791.7	2829.1	2854.7	2870.8	2868.3	2807.0	2747.4	2747.4
5°	2648.7	2629.1	2657.2	2803.6	2950.8	2963.6	2984.9	2950.0	2859.8	2750.8	2614.7
7.5°	2417.2	2431.7	2478.5	2670.8	2862.3	2958.5	2984.0	2939.8	2793.4	2590.0	2390.0
10°	2217.2	2251.2	2359.3	2567.0	2743.2	2868.3	2896.4	2834.2	2718.5	2469.1	2290.4
12.5°	2148.2	2127.0	2247.0	2454.6	2623.2	2690.4	2703.2	2707.4	2629.1	2407.8	2189.9
15°	2139.7	2153.3	2247.0	2404.4	2508.3	2511.7	2532.9	2566.1	2576.4	2449.5	2236.8
17.5°	2262.3	2246.1	2342.3	2467.4	2418.0	2368.7	2373.8	2421.4	2505.7	2485.3	2384.0
20°	2443.6	2480.2	2555.9	2543.2	2410.4	2285.3	2286.1	2331.2	2497.2	2633.4	2589.1
22.5°	2744.9	2780.6	2836.8	2682.7	2410.4	2260.6	2231.6	2292.9	2551.7	2809.6	2820.6
25°	3019.8	3085.3	3100.6	2919.4	2531.2	2283.6	2264.8	2325.3	2606.1	2981.5	3086.2
27.5°	3270.0	3293.9	3361.1	3071.7	2598.5	2298.9	2297.2	2374.6	2675.1	3067.5	3323.6
30°	3467.5	3464.9	3503.2	3167.9	2705.7	2384.9	2302.3	2448.7	2765.3	3209.6	3543.2
32.5°	3602.0	3630.9	3711.8	3301.5	2750.8	2466.6	2401.9	2535.5	2875.1	3276.8	3698.1
35°	3838.6	3888.8	3786.7	3375.6	2893.8	2547.4	2471.7	2653.8	2929.6	3350.0	3887.9
37.5°	4061.6	4023.3	3919.4	3415.6	2986.6	2697.2	2626.6	2882.8	3098.9	3509.2	4013.9
40°	4204.6	4203.7	4019.0	3447.9	3052.1	2926.2	2921.9	3115.1	3306.6	3609.6	4155.2
42.5°	4266.7	4326.3	4059.9	3444.5	3190.0	3203.6	3289.6	3462.4	3453.9	3630.0	4151.8
44°	4351.8	4387.5	4130.5	3452.2	3281.9	3390.9	3593.4	3703.2	3582.4	3619.0	4147.5
45°	4348.4	4350.9	4030.1	3462.4	3360.2	3547.5	3728.8	3914.3	3695.6	3595.1	4203.7
47.5°	4248.8	4219.9	3945.0	3386.6	3604.5	3961.1	4128.8	4241.2	3835.2	3544.1	4133.9
50°	4052.2	4019.0	3738.1	3354.3	3655.6	4218.2	4449.7	4490.5	3962.0	3493.9	4065.0
52.5°	4065.8	4056.5	3796.9	3402.8	3706.6	4299.0	4670.1	4680.3	4105.8	3599.4	4065.8
55°	4309.2	4276.9	3965.4	3463.2	3669.2	4204.6	4529.7	4511.8	4057.3	3535.6	4140.7
57.5°	3943.3	3964.5	3732.2	3224.1	3211.3	3418.1	3561.1	3516.8	3385.8	3190.9	3852.2
60°	3181.5	3241.9	3264.1	2696.4	2423.2	2316.8	2274.2	2195.9	2218.0	2621.5	3384.1
62.5°	2728.7	2725.3	2864.0	2444.4	1587.3	1365.2	1344.8	1362.7	1618.0	2580.6	3314.3
65°	2163.6	2221.4	2264.0	2071.6	1256.3	1013.7	1012.8	1126.0	1400.1	2156.7	2675.9
67.5°	1373.7	1449.5	1502.2	1325.2	840.1	721.8	702.2	838.4	970.3	1414.6	1611.2
70°	774.5	810.3	834.1	764.3	534.5	374.5	352.4	384.7	586.4	915.8	955.0
72.5°	298.7	314.9	347.3	349.8	201.7	120.9	97.9	117.5	246.8	362.6	345.6
75°	46.0	49.4	69.8	83.4	57.9	44.3	46.8	48.5	68.9	93.6	78.3
77.5°	22.1	22.1	21.3	24.7	28.9	31.5	34.0	37.4	40.9	45.1	43.4
80°	14.5	14.5	14.5	17.0	21.3	25.5	28.9	30.6	32.3	35.7	34.0
82.5°	9.4	9.4	9.4	12.8	17.0	21.3	23.0	27.2	30.6	35.7	33.2
85°	5.1	5.1	5.1	8.5	12.8	17.9	17.0	13.6	7.7	0.9	1.7
87.5°	1.7	1.7	1.7	1.7	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°	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2675.9	2636.8	2633.4	2553.4	2481.9	2447.0	2418.9	2340.6	2357.6	2312.5	2311.7
5°	2546.6	2466.6	2337.2	2230.8	2124.4	2103.1	2010.4	1929.5	1932.1	1874.2	1884.4
7.5°	2314.2	2258.9	2101.4	1934.6	1793.3	1692.9	1605.2	1552.5	1485.2	1462.2	1450.3
10°	2167.0	2098.9	1921.8	1712.5	1554.2	1500.5	1416.3	1369.5	1300.5	1266.5	1242.6
12.5°	2102.3	2002.7	1781.4	1568.6	1463.1	1407.8	1336.3	1251.2	1169.4	1138.0	1094.5
15°	2109.1	1989.9	1740.5	1510.7	1383.9	1276.7	1212.9	1118.4	1035.0	979.6	948.2
17.5°	2212.1	2067.4	1759.3	1466.5	1284.3	1149.9	1024.8	922.6	856.2	814.5	804.3
20°	2455.5	2258.9	1790.8	1395.0	1184.8	1017.1	863.0	756.6	705.6	704.7	705.6
22.5°	2658.1	2463.2	1854.6	1352.4	1085.2	846.9	693.7	659.6	649.4	670.7	673.2
25°	2931.3	2693.0	1964.4	1330.3	993.3	721.8	627.3	614.5	613.7	640.9	641.7
27.5°	3211.3	2893.8	2029.9	1265.6	899.6	657.1	587.3	584.7	598.3	627.3	624.7
30°	3401.9	3062.3	2148.2	1188.2	789.0	600.0	571.1	574.5	593.2	615.4	618.8
32.5°	3624.1	3228.3	2178.9	1145.6	720.9	552.4	532.0	539.6	563.4	598.3	617.1
35°	3878.6	3345.8	2225.7	1087.7	695.4	515.8	505.6	514.1	543.0	566.0	586.4
37.5°	4066.7	3553.4	2234.2	1042.6	667.3	495.4	479.2	507.3	524.3	556.6	566.8
40°	4206.3	3704.1	2256.3	1014.5	645.2	469.0	469.0	487.7	510.7	540.5	560.9
42.5°	4295.6	3813.9	2272.5	989.0	602.6	461.3	457.1	475.8	506.4	535.4	544.7
44°	4350.1	3860.7	2256.3	965.2	590.7	451.9	451.9	468.1	491.9	526.0	537.1
45°	4363.7	3919.4	2220.6	964.3	576.2	440.9	439.2	469.8	486.0	527.7	534.5
47.5°	4416.5	3991.8	2224.8	937.1	541.3	414.5	444.3	457.9	472.4	509.0	532.0
50°	4414.8	4036.9	2215.5	897.1	515.8	384.7	434.1	449.4	463.9	501.3	510.7
52.5°	4426.7	4205.4	2301.4	833.3	469.8	346.4	400.0	434.1	451.9	483.4	503.0
55°	4420.7	4301.6	2386.6	785.6	405.1	323.4	371.1	411.1	436.6	469.8	479.2
57.5°	4037.7	3802.0	2208.7	696.2	335.3	296.2	330.2	387.3	419.6	453.6	465.6
60°	3299.0	2930.4	1821.4	512.4	275.8	272.4	307.3	379.6	393.2	423.0	443.4
62.5°	3048.7	2570.4	1444.4	391.5	235.8	249.4	283.4	343.0	364.3	400.9	419.6
65°	2385.7	1707.4	894.5	264.7	207.7	223.8	256.2	300.4	335.3	369.4	391.5
67.5°	1412.9	932.8	442.6	185.5	181.3	198.3	231.5	264.7	304.7	342.2	353.2
70°	769.4	458.8	188.9	141.3	154.1	169.4	201.7	224.7	263.0	291.9	310.7
72.5°	246.8	139.6	94.5	104.7	117.5	135.3	154.9	183.0	210.2	227.3	242.6
75°	59.6	58.7	67.2	73.2	85.1	98.7	114.9	129.4	150.6	166.8	180.4
77.5°	41.7	45.1	51.9	60.4	64.7	69.8	80.0	91.1	100.4	112.3	120.9
80°	32.3	34.9	40.0	44.3	48.5	52.8	57.9	62.1	68.1	75.8	80.0
82.5°	30.6	32.3	37.4	40.0	38.3	37.4	40.9	42.6	43.4	46.0	48.5
85°	2.6	0.0	1.7	6.0	14.5	21.3	23.0	23.0	22.1	23.8	23.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.4	2.6
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°	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2301.4	2272.5	2283.6	2297.2	2277.6	2232.5	2244.4	2239.3	2285.3	2281.9	2327.8
5°	1929.5	1884.4	1889.5	1955.9	1934.6	1957.6	1911.6	1905.7	1914.2	1918.4	1926.1
7.5°	1476.7	1470.7	1521.8	1578.0	1604.4	1577.1	1532.0	1521.8	1512.4	1493.7	1536.3
10°	1205.2	1206.9	1203.5	1246.0	1275.8	1269.9	1242.6	1239.2	1221.4	1214.6	1238.4
12.5°	1075.8	1052.8	1041.8	1028.2	1051.1	1066.5	1054.5	1046.0	1046.9	1055.4	1058.8
15°	950.7	936.2	912.4	897.1	908.1	900.5	896.2	913.3	909.0	907.3	927.7
17.5°	810.3	822.2	820.5	803.5	817.9	812.0	811.1	799.2	783.0	771.1	777.9
20°	717.5	739.6	756.6	757.5	765.2	764.3	751.5	714.9	703.0	700.5	702.2
22.5°	684.3	696.2	716.6	745.6	745.6	732.0	716.6	674.1	663.0	651.1	646.0
25°	657.9	680.9	707.3	710.7	724.3	711.5	686.9	665.6	642.6	626.4	626.4
27.5°	644.3	669.8	689.4	695.4	714.1	703.9	678.3	651.1	623.9	623.0	608.6
30°	638.3	662.2	674.9	689.4	697.9	681.8	674.1	645.2	617.9	611.1	587.3
32.5°	620.5	654.5	678.3	674.9	681.8	674.9	663.9	640.0	609.4	594.1	591.5
35°	600.0	634.1	659.6	677.5	681.8	667.3	660.5	628.1	586.4	578.8	552.4
37.5°	589.0	609.4	640.9	669.8	675.8	668.1	645.2	612.0	570.3	561.7	538.8
40°	575.4	601.7	626.4	650.3	668.1	649.4	623.0	590.7	572.0	546.4	539.6
42.5°	565.1	594.9	615.4	641.7	662.2	637.5	606.9	584.7	558.3	541.3	521.7
44°	561.7	589.0	602.6	634.9	652.0	633.2	607.7	584.7	554.1	538.8	521.7
45°	549.8	587.3	601.7	630.7	645.2	629.8	597.5	574.5	552.4	533.7	515.8
47.5°	537.9	563.4	588.1	611.1	621.3	616.2	589.0	560.9	534.5	523.4	506.4
50°	534.5	560.0	583.0	604.3	616.2	606.0	581.3	554.1	523.4	505.6	491.1
52.5°	517.5	549.0	574.5	581.3	596.6	590.7	572.0	542.2	513.2	497.9	486.0
55°	492.8	526.0	560.9	569.4	591.5	582.2	554.1	526.0	501.3	478.3	463.0
57.5°	483.4	515.8	549.8	560.9	574.5	559.2	552.4	522.6	483.4	471.5	447.7
60°	459.6	500.5	528.5	554.1	554.9	550.7	538.8	504.7	472.4	450.2	433.2
62.5°	440.9	479.2	501.3	525.1	539.6	527.7	515.8	484.3	449.4	424.7	405.1
65°	413.6	448.5	467.3	481.7	497.9	496.2	475.8	452.8	416.2	396.6	377.9
67.5°	371.9	402.6	428.1	441.7	451.9	449.4	434.1	417.9	380.5	360.9	347.3
70°	321.7	353.2	369.4	377.0	387.3	392.4	380.5	372.8	339.6	314.1	301.3
72.5°	258.7	279.2	303.0	309.8	314.1	317.5	317.5	310.7	276.6	266.4	244.3
75°	190.7	206.8	224.7	224.7	232.4	233.2	234.9	230.7	205.1	191.5	186.4
77.5°	129.4	141.3	155.8	161.7	166.8	166.0	165.1	153.2	139.6	133.6	128.5
80°	84.3	96.2	103.0	110.6	115.8	114.9	116.6	108.1	102.1	91.9	93.6
82.5°	50.2	59.6	66.4	75.8	75.8	78.3	78.3	75.8	69.8	64.7	64.7
85°	23.8	31.5	35.7	41.7	45.1	46.0	40.9	34.9	28.9	26.4	28.9
87.5°	4.3	6.0	8.5	7.7	9.4	8.5	8.5	8.5	8.5	6.8	7.7
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: P526832

CATALOG NUMBER: GALN-SA1D-740-U-SLL-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2	2600.2
2.5°	2310.8	2353.4	2383.1	2432.5	2517.6	2585.7	2655.5	2707.4	2713.4	2728.7
5°	1954.2	1977.2	2052.9	2151.6	2221.4	2336.3	2410.4	2544.9	2595.1	2648.7
7.5°	1526.1	1563.5	1664.8	1731.2	1884.4	2028.2	2177.2	2343.1	2409.5	2417.2
10°	1286.9	1341.4	1410.3	1516.7	1600.1	1760.1	1945.7	2130.4	2204.4	2217.2
12.5°	1130.3	1200.1	1292.0	1368.6	1448.6	1588.2	1766.1	1994.2	2090.4	2148.2
15°	979.6	1052.0	1153.3	1259.7	1330.3	1497.1	1706.5	1963.5	2088.7	2139.7
17.5°	824.7	892.0	975.4	1090.3	1232.4	1419.7	1697.1	2065.7	2202.7	2262.3
20°	692.0	729.4	826.4	944.7	1122.6	1340.5	1700.5	2216.3	2417.2	2443.6
22.5°	640.0	648.6	686.9	795.8	990.7	1259.7	1761.0	2430.0	2658.1	2744.9
25°	600.0	598.3	608.6	681.8	894.5	1228.2	1820.6	2626.6	2925.3	3019.8
27.5°	577.9	560.9	561.7	630.7	826.4	1177.1	1897.2	2852.1	3228.3	3270.0
30°	566.8	563.4	553.2	581.3	752.4	1100.5	1909.9	3074.3	3407.1	3467.5
32.5°	560.0	526.8	514.1	524.3	682.6	1017.1	1957.6	3220.7	3628.3	3602.0
35°	526.0	496.2	487.7	497.9	633.2	970.3	1926.1	3348.3	3794.3	3838.6
37.5°	513.2	486.8	469.8	461.3	587.3	931.1	1909.9	3544.9	3955.2	4061.6
40°	501.3	473.2	452.8	444.3	551.5	879.2	1904.8	3696.4	4140.7	4204.6
42.5°	487.7	469.8	446.8	431.5	508.1	827.3	1846.1	3743.2	4197.7	4266.7
44°	483.4	456.2	432.4	427.3	491.1	800.9	1834.2	3785.8	4247.1	4351.8
45°	479.2	453.6	426.4	419.6	485.1	786.4	1818.0	3796.0	4328.8	4348.4
47.5°	467.3	451.1	424.7	406.0	472.4	754.9	1769.5	3738.1	4245.4	4248.8
50°	457.9	439.2	411.9	375.3	455.4	728.6	1791.6	3716.9	4044.5	4052.2
52.5°	447.7	419.6	404.3	341.3	427.3	706.4	1838.4	3813.0	4067.5	4065.8
55°	435.8	405.1	367.7	312.4	380.5	678.3	1951.6	4002.8	4280.3	4309.2
57.5°	417.1	390.7	337.0	286.8	326.8	624.7	1915.0	3639.4	3938.2	3943.3
60°	392.4	367.7	305.6	267.3	268.1	492.8	1712.5	2835.9	3107.5	3181.5
62.5°	368.5	354.9	279.2	239.2	228.1	392.4	1447.8	2356.8	2667.4	2728.7
65°	340.4	307.3	256.2	217.9	195.8	274.9	1025.6	1761.0	2081.0	2163.6
67.5°	304.7	269.0	225.5	191.5	167.7	183.8	529.4	1000.9	1325.2	1373.7
70°	266.4	233.2	189.8	161.7	135.3	126.8	233.2	477.5	724.3	774.5
72.5°	218.7	188.1	151.5	127.7	101.3	87.7	78.3	127.7	257.0	298.7
75°	158.3	137.0	114.1	91.1	71.5	56.2	46.0	38.3	42.6	46.0
77.5°	116.6	99.6	84.3	64.7	50.2	40.0	31.5	23.8	23.0	22.1
80°	91.1	80.9	67.2	51.9	39.2	29.8	22.1	16.2	14.5	14.5
82.5°	71.5	66.4	55.3	42.6	32.3	23.8	16.2	11.1	9.4	9.4
85°	27.2	27.2	40.0	34.9	24.7	17.0	11.1	6.0	5.1	5.1
87.5°	6.8	6.8	6.8	6.8	6.0	5.1	5.1	2.6	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)