

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: FAIL-SAFE

Report Number: P838067

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5LO-27-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P838067
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-5LO-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

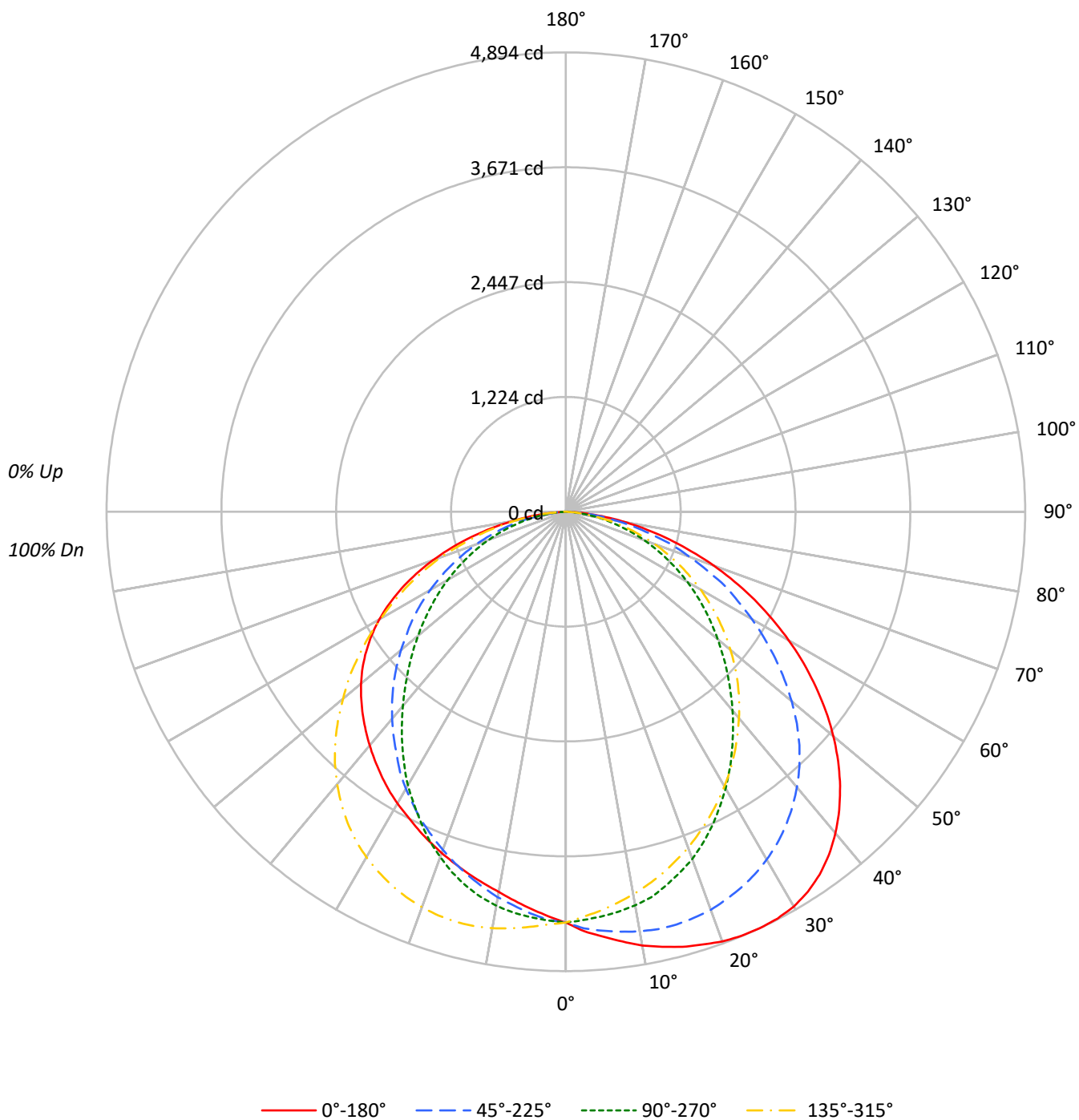
Lumens per Lamp: N/A
Luminaire Lumens: 12838.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
Input Voltage (V): 120
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: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5888	5888	5888	5888
5°	6136	5846	5735	5855
10°	6410	5815	5619	5824
15°	6684	5741	5564	5743
20°	6976	5637	5539	5605
25°	7265	5480	5539	5424
30°	7546	5289	5576	5230
35°	7746	5072	5632	4991
40°	7849	4853	5710	4744
45°	7864	4632	5821	4516
50°	7790	4421	5963	4303
55°	7629	4224	6096	4107
60°	7389	4019	6178	3914
65°	7059	3783	6145	3695
70°	6594	3506	5927	3441
75°	5933	3125	5439	3110
80°	5030	2618	4572	2658
85°	3498	1734	2899	1780

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.5	3.2
10°-20°	1203.1	9.4
20°-30°	1843.8	14.4
30°-40°	2241.9	17.5
40°-50°	2330.6	18.2
50°-60°	2105.3	16.4
60°-70°	1600.5	12.5
70°-80°	892.3	7.0
80°-90°	205.4	1.6
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°-30°	3462.4	27.0
0°-40°	5704.3	44.4
0°-60°	10140.2	79.0
0°-90°	12838.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12838.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4376	4376	4376	4376	4376	
5°	4543	4328	4246	4335	4543	438
15°	4799	4122	3994	4123	4799	1361
25°	4894	3691	3731	3653	4894	2260
35°	4716	3088	3429	3039	4716	2945
45°	4133	2434	3059	2373	4133	3182
55°	3252	1801	2599	1751	3252	2903
65°	2217	1188	1930	1161	2217	2191
75°	1141	601	1046	598	1141	1212
85°	227	112	188	115	227	285
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0
2.5°	4472.9	4407.6	4408.6	4465.8	4421.9	4443.3	4382.1	4405.6	4398.4	4403.5	4353.5
5°	4543.4	4472.9	4471.9	4520.9	4471.9	4481.1	4403.5	4418.8	4396.4	4382.1	4328.0
7.5°	4617.9	4547.4	4540.3	4583.2	4518.9	4511.7	4426.0	4426.0	4385.1	4349.4	4298.4
10°	4691.4	4618.9	4609.7	4642.4	4562.8	4539.3	4435.2	4418.8	4364.7	4311.7	4256.5
12.5°	4746.5	4673.0	4665.9	4686.3	4596.4	4553.6	4435.2	4403.5	4323.9	4249.4	4206.5
15°	4798.6	4723.0	4703.6	4713.8	4610.7	4553.6	4420.9	4371.9	4269.8	4171.8	4121.8
17.5°	4835.3	4762.8	4743.4	4742.4	4617.9	4536.2	4390.2	4322.9	4200.4	4082.0	4032.0
20°	4872.0	4799.6	4775.1	4756.7	4615.8	4512.7	4345.3	4254.5	4111.6	3978.9	3937.0
22.5°	4890.4	4815.9	4789.4	4761.8	4602.6	4469.9	4290.2	4174.9	4011.6	3853.3	3818.6
25°	4893.5	4816.9	4788.3	4748.5	4576.0	4418.8	4218.8	4078.9	3896.2	3720.6	3691.0
27.5°	4885.3	4801.6	4773.0	4725.1	4536.2	4356.6	4134.0	3969.7	3773.7	3579.8	3548.1
30°	4856.7	4772.0	4744.5	4682.2	4480.1	4280.0	4041.2	3848.2	3638.0	3431.8	3404.2
32.5°	4799.6	4716.9	4694.4	4632.2	4418.8	4191.2	3933.0	3717.6	3487.9	3290.9	3250.1
35°	4715.9	4633.2	4618.9	4553.6	4333.1	4085.0	3814.5	3574.7	3328.7	3127.6	3087.8
37.5°	4606.6	4537.2	4515.8	4451.5	4232.0	3964.6	3678.8	3419.5	3166.4	2950.0	2925.5
40°	4468.8	4403.5	4387.2	4330.0	4114.6	3830.9	3531.8	3259.3	2999.0	2797.9	2763.2
42.5°	4311.7	4250.4	4241.2	4182.0	3969.7	3682.9	3372.6	3092.9	2824.4	2630.5	2595.8
45°	4133.0	4073.8	4071.8	4015.6	3811.5	3518.5	3205.2	2924.5	2654.0	2452.9	2434.5
47.5°	3936.0	3882.9	3882.9	3830.9	3634.9	3337.9	3032.7	2748.9	2482.5	2304.9	2272.2
50°	3721.7	3671.6	3656.3	3630.8	3439.9	3140.9	2851.0	2577.4	2313.0	2143.6	2111.9
52.5°	3493.0	3450.1	3460.3	3413.4	3228.6	2935.7	2667.2	2384.5	2142.6	1988.4	1956.8
55°	3252.1	3190.9	3200.1	3182.7	3008.2	2724.4	2461.0	2225.2	1975.2	1830.2	1800.6
57.5°	3002.0	2922.4	2955.1	2944.9	2773.4	2508.0	2272.2	2044.6	1808.8	1675.1	1646.5
60°	2745.8	2669.3	2702.9	2693.8	2532.5	2291.6	2077.2	1865.9	1643.4	1521.9	1493.4
62.5°	2482.5	2412.0	2442.7	2435.5	2287.5	2070.1	1883.3	1689.3	1477.0	1367.8	1341.3
65°	2217.1	2149.7	2177.3	2172.2	2035.4	1870.0	1684.2	1506.6	1309.6	1214.7	1188.2
67.5°	1945.6	1883.3	1908.8	1908.8	1783.3	1625.0	1484.2	1321.9	1145.3	1063.6	1039.1
70°	1676.1	1617.9	1640.3	1638.3	1532.1	1403.5	1282.1	1137.1	978.9	911.5	891.1
72.5°	1404.6	1353.5	1373.9	1371.9	1283.1	1200.4	1080.0	954.4	816.6	762.5	744.1
75°	1141.2	1093.2	1112.6	1110.6	1038.1	960.5	879.9	775.8	657.4	619.6	601.2
77.5°	890.1	841.1	857.4	857.4	804.4	748.2	683.9	603.3	519.6	478.7	465.5
80°	649.2	625.7	617.6	618.6	582.8	546.1	513.4	435.9	374.6	347.1	337.9
82.5°	426.7	407.3	399.1	401.2	380.7	358.3	337.9	283.8	242.9	226.6	221.5
85°	226.6	212.3	205.2	210.3	206.2	193.9	183.7	147.0	121.5	115.3	112.3
87.5°	71.5	62.3	57.2	75.5	64.3	57.2	55.1	43.9	33.7	33.7	32.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0
2.5°	4369.8	4369.8	4330.0	4320.8	4316.8	4321.9	4282.1	4274.9	4332.1	4312.7	4268.8
5°	4335.1	4333.1	4276.9	4266.7	4266.7	4260.6	4215.7	4205.5	4262.7	4246.3	4198.3
7.5°	4292.3	4286.1	4219.8	4212.6	4202.4	4198.3	4148.3	4141.2	4190.2	4180.0	4135.1
10°	4240.2	4234.1	4155.5	4150.4	4139.1	4131.0	4084.0	4078.9	4128.9	4112.6	4076.9
12.5°	4171.8	4160.6	4079.9	4074.8	4065.7	4062.6	4016.7	4014.6	4069.7	4053.4	4015.6
15°	4082.0	4072.8	3983.0	3985.0	3986.0	3986.0	3949.3	3947.2	4001.3	3994.2	3953.4
17.5°	3983.0	3970.7	3885.0	3891.1	3898.2	3906.4	3877.8	3882.9	3940.1	3930.9	3894.2
20°	3870.7	3858.4	3774.7	3792.1	3807.4	3823.7	3805.4	3819.7	3872.7	3868.6	3841.1
22.5°	3745.1	3732.9	3655.3	3681.8	3707.4	3738.0	3729.8	3746.2	3802.3	3801.3	3776.8
25°	3592.0	3595.1	3526.7	3559.4	3602.2	3645.1	3648.2	3674.7	3737.0	3730.8	3708.4
27.5°	3449.1	3453.2	3380.7	3435.8	3493.0	3548.1	3561.4	3598.1	3661.4	3656.3	3636.9
30°	3299.1	3304.2	3233.7	3309.3	3378.7	3446.1	3474.6	3524.7	3589.0	3589.0	3568.5
32.5°	3142.9	3152.1	3078.6	3179.6	3260.3	3338.9	3388.9	3441.0	3514.4	3512.4	3495.1
35°	2982.6	2992.8	2925.5	3054.1	3134.7	3230.7	3292.9	3362.4	3427.7	3428.7	3415.4
37.5°	2819.3	2831.6	2770.3	2911.2	3003.0	3116.4	3196.0	3265.4	3337.9	3341.9	3329.7
40°	2657.0	2670.3	2617.2	2753.0	2869.3	2995.9	3087.8	3169.4	3249.1	3251.1	3242.9
42.5°	2494.7	2509.0	2469.2	2601.9	2733.6	2869.3	2977.5	3070.4	3152.1	3157.2	3148.0
45°	2336.5	2348.7	2320.2	2465.1	2591.7	2739.7	2864.2	2969.4	3052.0	3059.2	3056.1
47.5°	2179.3	2190.5	2165.0	2297.7	2443.7	2600.9	2744.8	2861.2	2948.9	2957.1	2955.1
50°	2025.2	2034.4	2006.8	2145.6	2290.6	2458.0	2608.0	2742.8	2840.7	2848.9	2847.9
52.5°	1872.1	1881.2	1857.8	2003.7	2135.4	2312.0	2475.3	2621.3	2718.3	2730.5	2732.6
55°	1724.0	1728.1	1709.8	1849.6	1977.2	2162.0	2349.8	2491.7	2588.6	2598.8	2605.0
57.5°	1576.0	1577.1	1561.7	1695.5	1818.0	2006.8	2203.8	2352.8	2444.7	2454.9	2464.1
60°	1429.1	1428.0	1410.7	1540.3	1657.7	1844.5	2049.7	2197.7	2286.5	2295.7	2307.9
62.5°	1283.1	1280.0	1264.7	1384.1	1494.4	1679.1	1885.3	2028.2	2113.0	2119.1	2135.4
65°	1138.1	1135.1	1120.8	1231.0	1331.1	1507.6	1709.8	1845.5	1922.1	1930.2	1927.2
67.5°	995.2	989.1	977.9	1076.9	1167.7	1331.1	1525.0	1654.6	1717.9	1725.1	1744.5
70°	852.3	845.2	819.7	924.8	1004.4	1150.4	1331.1	1446.4	1499.5	1506.6	1503.6
72.5°	711.5	704.3	676.8	773.7	841.1	968.7	1130.0	1225.9	1271.9	1278.0	1278.0
75°	574.7	570.6	553.2	626.7	682.9	787.0	923.8	1003.4	1039.1	1046.3	1044.2
77.5°	443.0	439.9	422.6	485.9	529.8	607.3	717.6	779.9	806.4	814.6	831.9
80°	317.5	316.4	288.9	351.1	370.5	435.9	516.5	564.5	578.8	590.0	602.2
82.5°	203.1	204.2	176.6	229.7	237.8	279.7	329.7	359.3	369.5	378.7	387.9
85°	99.0	103.1	87.8	121.5	122.5	143.9	165.4	176.6	180.7	187.8	196.0
87.5°	25.5	29.6	16.3	34.7	30.6	39.8	45.9	49.0	48.0	53.1	56.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0
2.5°	4283.1	4315.7	4299.4	4352.5	4372.9	4340.2	4397.4	4398.4	4357.6	4405.6	4432.1
5°	4216.7	4250.4	4240.2	4295.3	4320.8	4292.3	4361.7	4374.9	4335.1	4389.2	4432.1
7.5°	4149.4	4189.2	4175.9	4232.0	4262.7	4240.2	4314.7	4336.2	4305.5	4364.7	4421.9
10°	4091.2	4124.9	4110.6	4169.8	4196.3	4177.9	4251.4	4291.2	4262.7	4335.1	4403.5
12.5°	4034.0	4061.6	4045.2	4094.2	4119.8	4096.3	4186.1	4222.8	4202.4	4278.0	4365.8
15°	3960.5	3991.1	3968.7	4012.6	4032.0	4011.6	4085.0	4148.3	4122.8	4205.5	4302.5
17.5°	3904.4	3921.7	3891.1	3925.8	3937.0	3909.5	3984.0	4046.3	4027.9	4117.7	4230.0
20°	3842.1	3856.4	3813.5	3832.9	3831.9	3797.2	3865.6	3926.8	3914.6	4013.6	4141.2
22.5°	3772.7	3779.8	3729.8	3733.9	3731.9	3674.7	3735.9	3798.2	3793.1	3893.1	4036.0
25°	3699.2	3700.2	3635.9	3633.9	3611.4	3544.0	3598.1	3668.6	3653.3	3761.5	3911.5
27.5°	3626.7	3616.5	3538.9	3520.6	3484.8	3404.2	3452.2	3515.5	3506.3	3612.4	3778.8
30°	3549.2	3535.9	3441.0	3407.3	3355.2	3262.3	3302.1	3361.3	3366.4	3459.3	3633.9
32.5°	3475.7	3442.0	3336.8	3287.8	3222.5	3114.3	3135.7	3196.0	3204.1	3298.0	3477.7
35°	3380.7	3358.3	3228.6	3144.9	3080.6	2962.2	2984.7	3026.5	3038.8	3130.6	3313.4
37.5°	3290.9	3255.2	3117.4	3015.3	2932.6	2808.1	2814.2	2857.1	2869.3	2962.2	3142.9
40°	3198.0	3147.0	2999.0	2879.5	2784.6	2654.0	2646.8	2691.7	2700.9	2791.8	2955.1
42.5°	3099.0	3037.8	2871.4	2740.7	2631.5	2498.8	2484.5	2523.3	2533.5	2622.3	2782.6
45°	2999.0	2925.5	2740.7	2597.8	2478.4	2342.6	2328.3	2357.9	2373.2	2456.9	2611.1
47.5°	2892.8	2807.1	2606.0	2446.7	2323.2	2187.5	2170.1	2199.7	2212.0	2294.6	2440.6
50°	2781.5	2677.4	2467.2	2291.6	2169.1	2035.4	2009.9	2044.6	2055.8	2133.4	2276.3
52.5°	2659.1	2543.7	2319.1	2135.4	2012.9	1885.3	1854.7	1888.4	1901.7	1977.2	2108.9
55°	2529.4	2404.9	2170.1	1991.5	1858.8	1734.3	1708.7	1722.0	1750.6	1822.0	1944.5
57.5°	2383.5	2259.9	2012.9	1831.2	1703.6	1584.2	1562.8	1575.0	1601.6	1671.0	1781.2
60°	2228.3	2097.6	1852.7	1671.0	1547.5	1434.2	1414.8	1426.0	1454.6	1517.9	1619.9
62.5°	2075.2	1928.2	1687.3	1506.6	1394.3	1289.2	1284.1	1280.0	1306.6	1367.8	1457.6
65°	1889.4	1748.5	1514.8	1343.3	1241.2	1146.3	1125.9	1135.1	1160.6	1216.7	1310.6
67.5°	1690.4	1562.8	1338.2	1180.0	1089.1	1004.4	987.1	991.1	1017.7	1066.7	1148.3
70°	1479.1	1366.8	1157.5	1015.6	939.1	859.5	848.2	849.3	874.8	917.7	989.1
72.5°	1257.6	1156.5	974.8	853.3	790.1	732.9	722.7	710.4	733.9	770.7	831.9
75°	1032.0	943.2	793.1	694.1	644.1	596.1	586.9	574.7	598.2	629.8	677.8
77.5°	804.4	732.9	616.5	540.0	501.2	465.5	457.3	444.0	467.5	491.0	528.7
80°	581.8	529.8	460.4	379.7	366.4	343.0	334.8	320.5	343.0	358.3	386.9
82.5°	375.6	340.9	301.1	245.0	242.9	225.6	221.5	205.2	225.6	234.8	256.2
85°	189.9	173.5	163.3	124.5	128.6	117.4	116.4	99.0	115.3	119.4	131.7
87.5°	54.1	57.2	51.0	30.6	38.8	36.7	36.7	26.5	36.7	36.7	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P838067

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0
2.5°	4380.0	4397.4	4401.5	4400.5	4411.7	4472.9	4452.5	4472.9
5°	4390.2	4429.0	4439.2	4453.5	4471.9	4541.3	4518.9	4543.4
7.5°	4396.4	4454.6	4477.0	4504.6	4534.2	4611.8	4593.4	4617.9
10°	4396.4	4471.9	4504.6	4550.5	4590.3	4680.1	4662.8	4691.4
12.5°	4378.0	4475.0	4520.9	4585.2	4636.3	4733.2	4726.1	4746.5
15°	4340.2	4459.7	4522.9	4605.6	4668.9	4777.1	4774.1	4798.6
17.5°	4289.2	4433.1	4509.7	4613.8	4693.4	4814.9	4822.0	4835.3
20°	4224.9	4383.1	4483.1	4610.7	4710.8	4844.5	4853.7	4872.0
22.5°	4140.2	4322.9	4443.3	4597.5	4712.8	4856.7	4873.1	4890.4
25°	4040.1	4250.4	4391.3	4571.9	4702.6	4855.7	4878.2	4893.5
27.5°	3925.8	4156.5	4324.9	4531.1	4674.0	4839.4	4866.9	4885.3
30°	3793.1	4056.5	4249.4	4478.0	4635.2	4808.8	4838.4	4856.7
32.5°	3656.3	3946.2	4159.6	4409.6	4579.1	4759.8	4785.3	4799.6
35°	3507.3	3812.5	4051.4	4321.9	4506.6	4681.2	4700.6	4715.9
37.5°	3345.0	3667.6	3927.8	4222.8	4404.5	4571.9	4589.3	4606.6
40°	3177.6	3515.5	3789.0	4101.4	4283.1	4438.2	4456.6	4468.8
42.5°	3009.2	3347.0	3641.0	3958.5	4139.1	4288.2	4299.4	4311.7
45°	2838.7	3172.5	3474.6	3800.3	3978.9	4118.7	4122.8	4133.0
47.5°	2665.2	2991.8	3291.9	3619.6	3796.2	3923.8	3927.8	3936.0
50°	2490.6	2811.1	3097.0	3424.6	3597.1	3731.9	3713.5	3721.7
52.5°	2319.1	2621.3	2913.2	3214.3	3384.8	3504.2	3509.3	3493.0
55°	2150.7	2435.5	2704.0	2993.9	3156.2	3249.1	3246.0	3252.1
57.5°	1980.3	2247.7	2493.7	2759.1	2917.3	3005.1	3023.5	3002.0
60°	1806.7	2057.8	2278.3	2518.2	2671.3	2744.8	2766.2	2745.8
62.5°	1634.2	1864.9	2065.0	2274.2	2416.1	2507.0	2504.9	2482.5
65°	1461.7	1671.0	1849.6	2027.2	2150.7	2241.6	2237.5	2217.1
67.5°	1302.5	1475.0	1635.2	1779.2	1886.3	1948.6	1970.0	1945.6
70°	1126.9	1275.9	1416.8	1532.1	1621.0	1677.1	1697.5	1676.1
72.5°	951.3	1077.9	1176.9	1288.2	1356.6	1403.5	1425.0	1404.6
75°	777.8	881.9	962.6	1049.3	1097.3	1137.1	1161.6	1141.2
77.5°	609.4	690.0	754.3	817.6	872.7	881.9	903.4	890.1
80°	449.1	507.3	554.3	596.1	635.9	640.0	657.4	649.2
82.5°	299.1	337.9	350.1	394.0	419.5	415.4	432.8	426.7
85°	158.2	181.7	203.1	216.4	230.7	217.4	232.7	226.6
87.5°	53.1	56.1	49.0	69.4	76.6	65.3	74.5	71.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)