

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: P838247

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5LO-50-120-EDD-90**

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: P838247
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-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

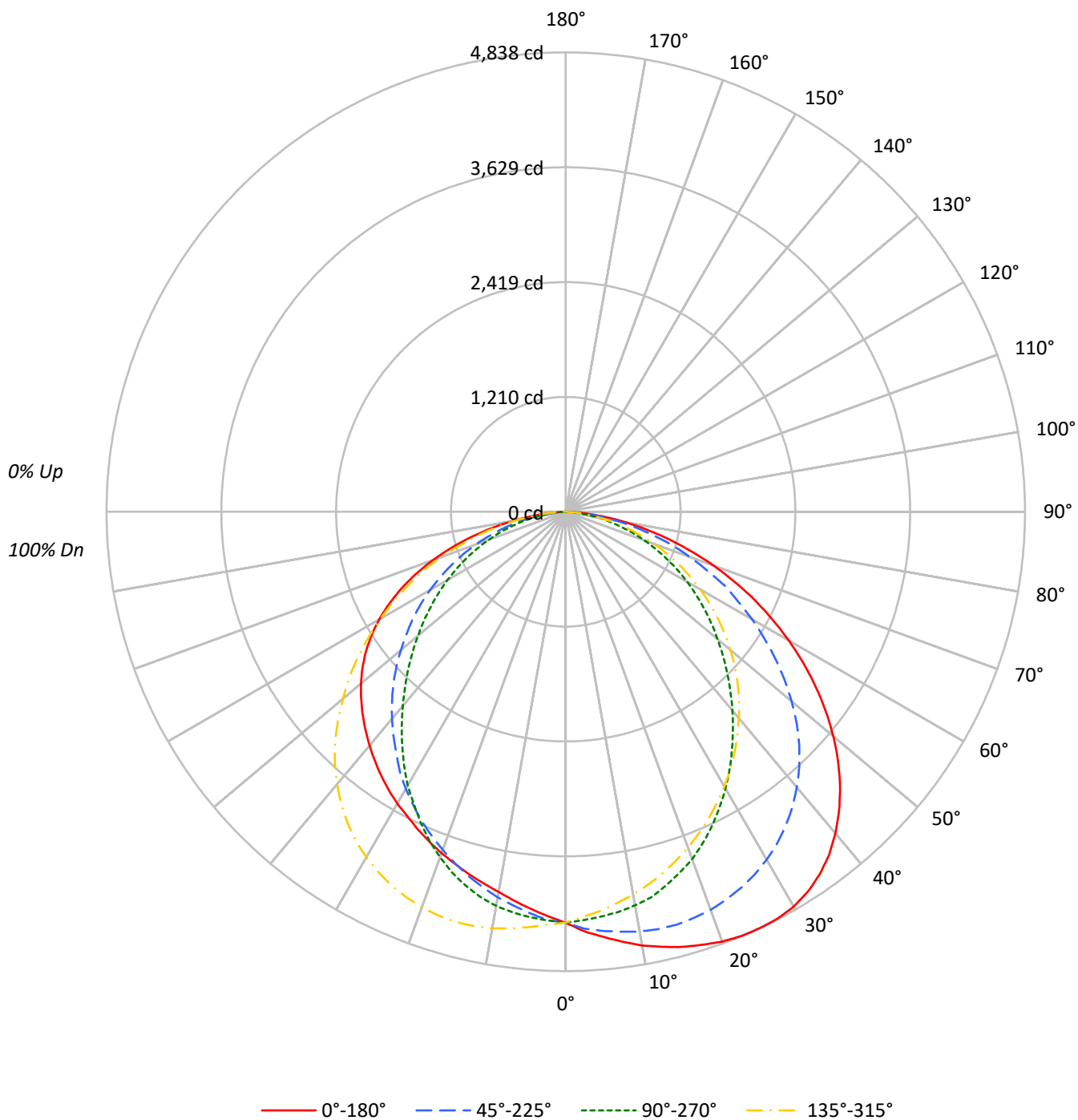
Lumens per Lamp: N/A
Luminaire Lumens: 12694.2 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5822	5822	5822	5822
5°	6067	5780	5671	5789
10°	6338	5750	5556	5758
15°	6609	5677	5501	5678
20°	6898	5574	5477	5542
25°	7183	5418	5476	5363
30°	7461	5230	5513	5171
35°	7659	5015	5569	4935
40°	7761	4799	5646	4691
45°	7776	4580	5756	4465
50°	7703	4371	5896	4255
55°	7543	4176	6028	4060
60°	7306	3973	6108	3870
65°	6979	3740	6076	3654
70°	6519	3466	5860	3403
75°	5866	3091	5378	3074
80°	4974	2589	4520	2627
85°	3460	1714	2867	1760

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.8	3.2
10°-20°	1189.6	9.4
20°-30°	1823.1	14.4
30°-40°	2216.8	17.5
40°-50°	2304.4	18.2
50°-60°	2081.6	16.4
60°-70°	1582.6	12.5
70°-80°	882.3	7.0
80°-90°	203.1	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°	3423.5	27.0
0°-40°	5640.2	44.4
0°-60°	10026.3	79.0
0°-90°	12694.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12694.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4327	4327	4327	4327	4327	
5°	4492	4279	4199	4286	4492	433
15°	4745	4076	3949	4076	4745	1345
25°	4838	3650	3689	3612	4838	2235
35°	4663	3053	3390	3005	4663	2912
45°	4087	2407	3025	2347	4087	3146
55°	3216	1780	2570	1731	3216	2871
65°	2192	1175	1909	1148	2192	2166
75°	1128	594	1034	591	1128	1199
85°	224	111	186	114	224	282
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°	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8
2.5°	4422.7	4358.1	4359.1	4415.6	4372.2	4393.4	4332.8	4356.1	4349.0	4354.0	4304.6
5°	4492.3	4422.7	4421.7	4470.1	4421.7	4430.7	4354.0	4369.2	4347.0	4332.8	4279.4
7.5°	4566.0	4496.4	4489.3	4531.7	4468.1	4461.0	4376.2	4376.2	4335.9	4300.5	4250.1
10°	4638.7	4567.0	4557.9	4590.2	4511.5	4488.3	4385.3	4369.2	4315.7	4263.2	4208.7
12.5°	4693.2	4620.5	4613.4	4633.6	4544.8	4502.4	4385.3	4354.0	4275.3	4201.6	4159.3
15°	4744.6	4669.9	4650.8	4660.9	4558.9	4502.4	4371.2	4322.8	4221.8	4124.9	4075.5
17.5°	4781.0	4709.3	4690.1	4689.1	4566.0	4485.2	4340.9	4274.3	4153.2	4036.1	3986.7
20°	4817.3	4745.6	4721.4	4703.3	4564.0	4462.0	4296.5	4206.7	4065.4	3934.2	3892.8
22.5°	4835.5	4761.8	4735.6	4708.3	4550.9	4419.6	4242.0	4128.0	3966.5	3810.0	3775.7
25°	4838.5	4762.8	4734.5	4695.2	4524.6	4369.2	4171.4	4033.1	3852.4	3678.8	3649.6
27.5°	4830.4	4747.7	4719.4	4672.0	4485.2	4307.6	4087.6	3925.1	3731.3	3539.6	3508.3
30°	4802.2	4718.4	4691.1	4629.6	4429.7	4231.9	3995.7	3805.0	3597.1	3393.2	3366.0
32.5°	4745.6	4663.9	4641.7	4580.1	4369.2	4144.1	3888.8	3675.8	3448.7	3253.9	3213.6
35°	4662.9	4581.1	4567.0	4502.4	4284.4	4039.1	3771.7	3534.5	3291.3	3092.4	3053.1
37.5°	4554.9	4486.3	4465.1	4401.5	4184.5	3920.1	3637.5	3381.1	3130.8	2916.8	2892.6
40°	4418.6	4354.0	4337.9	4281.4	4068.4	3787.8	3492.1	3222.6	2965.3	2766.4	2732.1
42.5°	4263.2	4202.6	4193.6	4135.0	3925.1	3641.5	3334.7	3058.1	2792.7	2600.9	2566.6
45°	4086.6	4028.0	4026.0	3970.5	3768.7	3479.0	3169.1	2891.6	2624.1	2425.3	2407.1
47.5°	3891.8	3839.3	3839.3	3787.8	3594.1	3300.4	2998.6	2718.0	2454.6	2279.0	2246.7
50°	3679.8	3630.4	3615.2	3590.0	3401.3	3105.6	2818.9	2548.4	2287.0	2119.5	2088.2
52.5°	3453.8	3411.4	3421.5	3375.0	3192.4	2902.7	2637.3	2357.7	2118.5	1966.1	1934.8
55°	3215.6	3155.0	3164.1	3146.9	2974.4	2693.8	2433.4	2200.2	1953.0	1809.6	1780.4
57.5°	2968.3	2889.6	2921.9	2911.8	2742.2	2479.8	2246.7	2021.6	1788.4	1656.2	1628.0
60°	2715.0	2639.3	2672.6	2663.5	2504.0	2265.8	2053.9	1845.0	1624.9	1504.8	1476.6
62.5°	2454.6	2384.9	2415.2	2408.1	2261.8	2046.8	1862.1	1670.4	1460.4	1352.4	1326.2
65°	2192.2	2125.5	2152.8	2147.8	2012.5	1849.0	1665.3	1489.7	1294.9	1201.0	1174.8
67.5°	1923.7	1862.1	1887.4	1887.4	1763.2	1606.8	1467.5	1307.0	1132.4	1051.7	1027.4
70°	1657.2	1599.7	1621.9	1619.9	1514.9	1387.8	1267.7	1124.3	967.9	901.3	881.1
72.5°	1388.8	1338.3	1358.5	1356.5	1268.7	1186.9	1067.8	943.7	807.4	753.9	735.8
75°	1128.4	1080.9	1100.1	1098.1	1026.4	949.7	870.0	767.1	650.0	612.6	594.5
77.5°	880.1	831.6	847.8	847.8	795.3	739.8	676.2	596.5	513.7	473.4	460.2
80°	641.9	618.7	610.6	611.6	576.3	540.0	507.7	431.0	370.4	343.2	334.1
82.5°	421.9	402.7	394.6	396.6	376.5	354.3	334.1	280.6	240.2	224.1	219.0
85°	224.1	209.9	202.9	207.9	203.9	191.8	181.7	145.3	120.1	114.0	111.0
87.5°	70.6	61.6	56.5	74.7	63.6	56.5	54.5	43.4	33.3	33.3	32.3
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°	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8
2.5°	4320.7	4320.7	4281.4	4272.3	4268.3	4273.3	4233.9	4226.9	4283.4	4264.2	4220.8
5°	4286.4	4284.4	4228.9	4218.8	4218.8	4212.7	4168.3	4158.2	4214.8	4198.6	4151.2
7.5°	4244.0	4238.0	4172.4	4165.3	4155.2	4151.2	4101.7	4094.7	4143.1	4133.0	4088.6
10°	4192.6	4186.5	4108.8	4103.7	4092.6	4084.6	4038.1	4033.1	4082.5	4066.4	4031.1
12.5°	4124.9	4113.8	4034.1	4029.1	4020.0	4016.9	3971.5	3969.5	4024.0	4007.9	3970.5
15°	4036.1	4027.0	3938.2	3940.2	3941.2	3941.2	3904.9	3902.9	3956.4	3949.3	3908.9
17.5°	3938.2	3926.1	3841.3	3847.4	3854.4	3862.5	3834.3	3839.3	3895.8	3886.7	3850.4
20°	3827.2	3815.1	3732.3	3749.5	3764.6	3780.8	3762.6	3776.7	3829.2	3825.2	3797.9
22.5°	3703.1	3690.9	3614.2	3640.5	3665.7	3696.0	3687.9	3704.1	3759.6	3758.6	3734.3
25°	3551.7	3554.7	3487.1	3519.4	3561.8	3604.1	3607.2	3633.4	3695.0	3688.9	3666.7
27.5°	3410.4	3414.4	3342.7	3397.2	3453.8	3508.3	3521.4	3557.7	3620.3	3615.2	3596.1
30°	3262.0	3267.0	3197.4	3272.1	3340.7	3407.3	3435.6	3485.1	3548.6	3548.6	3528.4
32.5°	3107.6	3116.7	3044.0	3143.9	3223.6	3301.4	3350.8	3402.3	3475.0	3472.9	3455.8
35°	2949.1	2959.2	2892.6	3019.8	3099.5	3194.4	3255.9	3324.6	3389.2	3390.2	3377.1
37.5°	2787.6	2799.7	2739.2	2878.5	2969.3	3081.3	3160.1	3228.7	3300.4	3304.4	3292.3
40°	2627.2	2640.3	2587.8	2722.0	2837.1	2962.2	3053.1	3133.8	3212.5	3214.6	3206.5
42.5°	2466.7	2480.8	2441.5	2572.7	2702.9	2837.1	2944.1	3035.9	3116.7	3121.7	3112.6
45°	2310.2	2322.4	2294.1	2437.4	2562.6	2708.9	2832.0	2936.0	3017.8	3024.8	3021.8
47.5°	2154.8	2165.9	2140.7	2271.9	2416.2	2571.7	2714.0	2829.0	2915.8	2923.9	2921.9
50°	2002.4	2011.5	1984.2	2121.5	2264.8	2430.4	2578.7	2711.9	2808.8	2816.9	2815.9
52.5°	1851.0	1860.1	1836.9	1981.2	2111.4	2286.0	2447.5	2591.8	2687.7	2699.8	2701.8
55°	1704.7	1708.7	1690.5	1828.8	1955.0	2137.7	2323.4	2463.7	2559.5	2569.6	2575.7
57.5°	1558.3	1559.3	1544.2	1676.4	1797.5	1984.2	2179.0	2326.4	2417.2	2427.3	2436.4
60°	1413.0	1412.0	1394.8	1523.0	1639.1	1823.8	2026.6	2173.0	2260.8	2269.9	2282.0
62.5°	1268.7	1265.6	1250.5	1368.6	1477.6	1660.3	1864.1	2005.4	2089.2	2095.3	2111.4
65°	1125.3	1122.3	1108.2	1217.2	1316.1	1490.7	1690.5	1824.8	1900.5	1908.6	1905.5
67.5°	984.0	978.0	966.9	1064.8	1154.6	1316.1	1507.9	1636.0	1698.6	1705.7	1724.9
70°	842.8	835.7	810.5	914.4	993.1	1137.5	1316.1	1430.2	1482.6	1489.7	1486.7
72.5°	703.5	696.4	669.2	765.0	831.6	957.8	1117.3	1212.1	1257.6	1263.6	1263.6
75°	568.2	564.2	547.0	619.7	675.2	778.2	913.4	992.1	1027.4	1034.5	1032.5
77.5°	438.0	435.0	417.8	480.4	523.8	600.5	709.5	771.1	797.3	805.4	822.6
80°	313.9	312.9	285.6	347.2	366.4	431.0	510.7	558.1	572.3	583.4	595.5
82.5°	200.8	201.9	174.6	227.1	235.2	276.5	326.0	355.3	365.4	374.4	383.5
85°	97.9	101.9	86.8	120.1	121.1	142.3	163.5	174.6	178.6	185.7	193.8
87.5°	25.2	29.3	16.1	34.3	30.3	39.4	45.4	48.4	47.4	52.5	55.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8
2.5°	4234.9	4267.2	4251.1	4303.6	4323.8	4291.5	4348.0	4349.0	4308.6	4356.1	4382.3
5°	4169.3	4202.6	4192.6	4247.1	4272.3	4244.0	4312.7	4325.8	4286.4	4339.9	4382.3
7.5°	4102.7	4142.1	4129.0	4184.5	4214.8	4192.6	4266.2	4287.4	4257.2	4315.7	4372.2
10°	4045.2	4078.5	4064.4	4122.9	4149.2	4131.0	4203.7	4243.0	4214.8	4286.4	4354.0
12.5°	3988.7	4015.9	3999.8	4048.2	4073.5	4050.2	4139.1	4175.4	4155.2	4229.9	4316.7
15°	3916.0	3946.3	3924.1	3967.5	3986.7	3966.5	4039.1	4101.7	4076.5	4158.2	4254.1
17.5°	3860.5	3877.7	3847.4	3881.7	3892.8	3865.5	3939.2	4000.8	3982.6	4071.4	4182.5
20°	3798.9	3813.1	3770.7	3789.9	3788.8	3754.5	3822.2	3882.7	3870.6	3968.5	4094.7
22.5°	3730.3	3737.4	3687.9	3692.0	3689.9	3633.4	3694.0	3755.5	3750.5	3849.4	3990.7
25°	3657.6	3658.6	3595.1	3593.0	3570.8	3504.2	3557.7	3627.4	3612.2	3719.2	3867.6
27.5°	3586.0	3575.9	3499.2	3481.0	3445.7	3366.0	3413.4	3476.0	3466.9	3571.8	3736.4
30°	3509.3	3496.2	3402.3	3369.0	3317.5	3225.7	3265.0	3323.6	3328.6	3420.5	3593.0
32.5°	3436.6	3403.3	3299.3	3250.9	3186.3	3079.3	3100.5	3160.1	3168.1	3261.0	3438.6
35°	3342.7	3320.5	3192.4	3109.6	3046.0	2928.9	2951.1	2992.5	3004.6	3095.5	3276.1
37.5°	3253.9	3218.6	3082.3	2981.4	2899.7	2776.5	2782.6	2825.0	2837.1	2928.9	3107.6
40°	3162.1	3111.6	2965.3	2847.2	2753.3	2624.1	2617.1	2661.5	2670.6	2760.4	2921.9
42.5°	3064.2	3003.6	2839.1	2709.9	2601.9	2470.7	2456.6	2494.9	2505.0	2592.8	2751.3
45°	2965.3	2892.6	2709.9	2568.6	2450.5	2316.3	2302.2	2331.4	2346.6	2429.3	2581.7
47.5°	2860.3	2775.5	2576.7	2419.2	2297.1	2162.9	2145.7	2175.0	2187.1	2268.9	2413.2
50°	2750.3	2647.3	2439.4	2265.8	2144.7	2012.5	1987.3	2021.6	2032.7	2109.4	2250.7
52.5°	2629.2	2515.1	2293.1	2111.4	1990.3	1864.1	1833.9	1867.2	1880.3	1955.0	2085.2
55°	2501.0	2377.9	2145.7	1969.1	1837.9	1714.8	1689.5	1702.7	1730.9	1801.6	1922.7
57.5°	2356.7	2234.6	1990.3	1810.7	1684.5	1566.4	1545.2	1557.3	1583.6	1652.2	1761.2
60°	2203.3	2074.1	1831.8	1652.2	1530.1	1418.0	1398.9	1410.0	1438.2	1500.8	1601.7
62.5°	2051.9	1906.5	1668.3	1489.7	1378.7	1274.7	1269.7	1265.6	1291.9	1352.4	1441.3
65°	1868.2	1728.9	1497.8	1328.2	1227.3	1133.4	1113.2	1122.3	1147.6	1203.1	1295.9
67.5°	1671.4	1545.2	1323.2	1166.7	1076.9	993.1	976.0	980.0	1006.3	1054.7	1135.4
70°	1462.4	1351.4	1144.5	1004.2	928.5	849.8	838.7	839.7	865.0	907.3	978.0
72.5°	1243.4	1143.5	963.9	843.8	781.2	724.7	714.6	702.5	725.7	762.0	822.6
75°	1020.4	932.6	784.2	686.3	636.9	589.4	580.3	568.2	591.4	622.7	670.2
77.5°	795.3	724.7	609.6	533.9	495.6	460.2	452.2	439.0	462.3	485.5	522.8
80°	575.3	523.8	455.2	375.5	362.3	339.1	331.0	316.9	339.1	354.3	382.5
82.5°	371.4	337.1	297.7	242.2	240.2	223.1	219.0	202.9	223.1	232.1	253.3
85°	187.7	171.6	161.5	123.1	127.2	116.1	115.1	97.9	114.0	118.1	130.2
87.5°	53.5	56.5	50.5	30.3	38.4	36.3	36.3	26.2	36.3	36.3	41.4
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: P838247

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5LO-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8
2.5°	4330.8	4348.0	4352.0	4351.0	4362.1	4422.7	4402.5	4422.7
5°	4340.9	4379.3	4389.4	4403.5	4421.7	4490.3	4468.1	4492.3
7.5°	4347.0	4404.5	4426.7	4454.0	4483.2	4559.9	4541.8	4566.0
10°	4347.0	4421.7	4454.0	4499.4	4538.7	4627.6	4610.4	4638.7
12.5°	4328.8	4424.7	4470.1	4533.7	4584.2	4680.0	4673.0	4693.2
15°	4291.5	4409.6	4472.1	4553.9	4616.5	4723.4	4720.4	4744.6
17.5°	4241.0	4383.3	4459.0	4562.0	4640.7	4760.8	4767.8	4781.0
20°	4177.4	4333.9	4432.8	4558.9	4657.8	4790.1	4799.1	4817.3
22.5°	4093.6	4274.3	4393.4	4545.8	4659.9	4802.2	4818.3	4835.5
25°	3994.7	4202.6	4341.9	4520.6	4649.8	4801.2	4823.4	4838.5
27.5°	3881.7	4109.8	4276.3	4480.2	4621.5	4785.0	4812.3	4830.4
30°	3750.5	4010.9	4201.6	4427.7	4583.1	4754.7	4784.0	4802.2
32.5°	3615.2	3901.9	4112.8	4360.1	4527.6	4706.3	4731.5	4745.6
35°	3467.9	3769.7	4005.8	4273.3	4456.0	4628.6	4647.7	4662.9
37.5°	3307.4	3626.3	3883.7	4175.4	4355.1	4520.6	4537.7	4554.9
40°	3141.9	3476.0	3746.5	4055.3	4234.9	4388.4	4406.5	4418.6
42.5°	2975.4	3309.4	3600.1	3914.0	4092.6	4240.0	4251.1	4263.2
45°	2806.8	3136.8	3435.6	3757.6	3934.2	4072.5	4076.5	4086.6
47.5°	2635.2	2958.2	3254.9	3578.9	3753.5	3879.7	3883.7	3891.8
50°	2462.6	2779.6	3062.2	3386.1	3556.7	3689.9	3671.8	3679.8
52.5°	2293.1	2591.8	2880.5	3178.2	3346.8	3464.9	3469.9	3453.8
55°	2126.6	2408.1	2673.6	2960.2	3120.7	3212.5	3209.5	3215.6
57.5°	1958.0	2222.4	2465.7	2728.1	2884.5	2971.3	2989.5	2968.3
60°	1786.4	2034.7	2252.7	2489.9	2641.3	2714.0	2735.2	2715.0
62.5°	1615.9	1844.0	2041.8	2248.7	2389.0	2478.8	2476.8	2454.6
65°	1445.3	1652.2	1828.8	2004.4	2126.6	2216.4	2212.3	2192.2
67.5°	1287.8	1458.4	1616.9	1759.2	1865.2	1926.7	1947.9	1923.7
70°	1114.2	1261.6	1400.9	1514.9	1602.7	1658.3	1678.4	1657.2
72.5°	940.7	1065.8	1163.7	1273.7	1341.3	1387.8	1409.0	1388.8
75°	769.1	872.0	951.8	1037.5	1085.0	1124.3	1148.6	1128.4
77.5°	602.5	682.3	745.9	808.4	862.9	872.0	893.2	880.1
80°	444.1	501.6	548.0	589.4	628.8	632.8	650.0	641.9
82.5°	295.7	334.1	346.2	389.6	414.8	410.8	427.9	421.9
85°	156.4	179.7	200.8	214.0	228.1	215.0	230.1	224.1
87.5°	52.5	55.5	48.4	68.6	75.7	64.6	73.7	70.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)