

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: P837820

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3HI-50-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-3HI-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

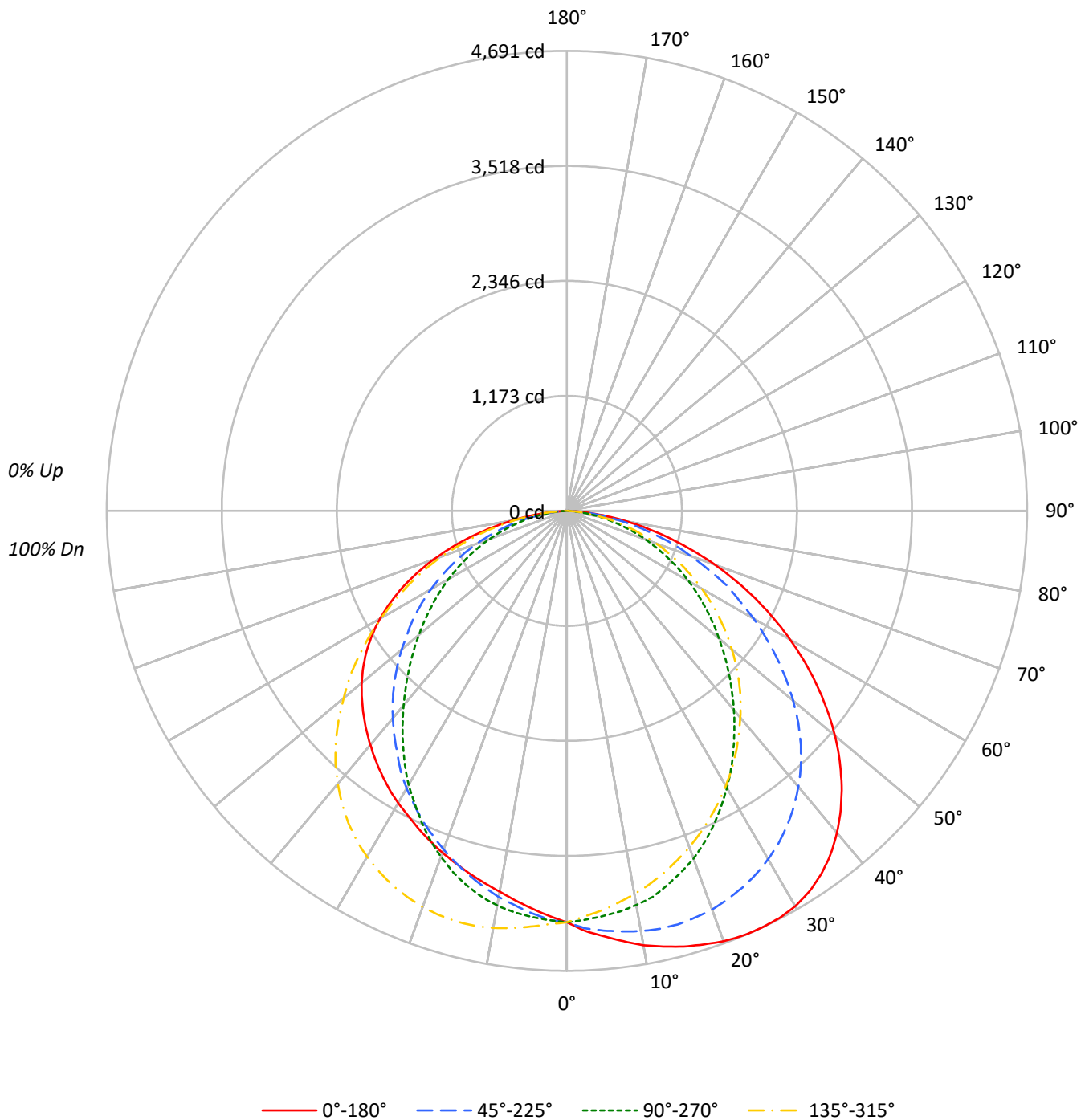
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12307.5 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	11289	11289	11289	11289
5°	11765	11208	10996	11226
10°	12289	11150	10773	11166
15°	12815	11008	10667	11011
20°	13375	10808	10621	10747
25°	13929	10506	10620	10399
30°	14467	10140	10691	10028
35°	14851	9724	10798	9570
40°	15049	9305	10948	9095
45°	15078	8882	11161	8658
50°	14936	8476	11434	8251
55°	14626	8098	11689	7873
60°	14167	7705	11844	7505
65°	13533	7252	11782	7084
70°	12642	6722	11364	6598
75°	11374	5993	10428	5962
80°	9644	5019	8765	5095
85°	6706	3322	5561	3415

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.3	3.2
10°-20°	1153.3	9.4
20°-30°	1767.5	14.4
30°-40°	2149.2	17.5
40°-50°	2234.2	18.2
50°-60°	2018.2	16.4
60°-70°	1534.4	12.5
70°-80°	855.4	7.0
80°-90°	196.9	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°	3319.2	27.0
0°-40°	5468.4	44.4
0°-60°	9720.8	79.0
0°-90°	12307.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12307.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4195	4195	4195	4195	4195	
5°	4356	4149	4071	4156	4356	420
15°	4600	3951	3829	3952	4600	1304
25°	4691	3538	3577	3502	4691	2167
35°	4521	2960	3287	2913	4521	2824
45°	3962	2334	2933	2275	3962	3050
55°	3118	1726	2491	1678	3118	2783
65°	2125	1139	1850	1113	2125	2100
75°	1094	576	1003	573	1094	1162
85°	217	108	180	111	217	273
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°	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0
2.5°	4287.9	4225.3	4226.3	4281.1	4239.0	4259.6	4200.9	4223.4	4216.5	4221.4	4173.5
5°	4355.5	4287.9	4287.0	4333.9	4287.0	4295.8	4221.4	4236.1	4214.6	4200.9	4149.0
7.5°	4426.9	4359.4	4352.5	4393.6	4332.0	4325.1	4242.9	4242.9	4203.8	4169.5	4120.6
10°	4497.4	4427.9	4419.1	4450.4	4374.1	4351.6	4251.7	4236.1	4184.2	4133.3	4080.5
12.5°	4550.2	4479.7	4472.9	4492.5	4406.4	4365.3	4251.7	4221.4	4145.1	4073.6	4032.6
15°	4600.1	4527.7	4509.1	4518.9	4420.1	4365.3	4238.0	4191.1	4093.2	3999.3	3951.3
17.5°	4635.3	4565.9	4547.3	4546.3	4426.9	4348.6	4208.7	4144.1	4026.7	3913.2	3865.2
20°	4670.6	4601.1	4577.6	4560.0	4424.9	4326.1	4165.6	4078.5	3941.5	3814.3	3774.2
22.5°	4688.2	4616.7	4591.3	4564.9	4412.2	4285.0	4112.8	4002.2	3845.6	3694.0	3660.7
25°	4691.1	4617.7	4590.3	4552.2	4386.8	4236.1	4044.3	3910.2	3735.1	3566.8	3538.4
27.5°	4683.3	4603.0	4575.6	4529.6	4348.6	4176.4	3963.1	3805.5	3617.7	3431.7	3401.4
30°	4655.9	4574.7	4548.2	4488.5	4294.8	4103.0	3874.0	3689.1	3487.5	3289.8	3263.4
32.5°	4601.1	4521.8	4500.3	4440.6	4236.1	4017.9	3770.3	3563.8	3343.7	3154.8	3115.7
35°	4520.8	4441.6	4427.9	4365.3	4153.9	3916.1	3656.8	3426.8	3191.0	2998.2	2960.1
37.5°	4416.1	4349.6	4329.0	4267.4	4057.0	3800.6	3526.6	3278.1	3035.4	2828.0	2804.5
40°	4284.0	4221.4	4205.8	4151.0	3944.5	3672.4	3385.7	3124.5	2874.9	2682.2	2648.9
42.5°	4133.3	4074.6	4065.8	4009.1	3805.5	3530.6	3233.1	2965.0	2707.6	2521.7	2488.4
45°	3962.1	3905.3	3903.4	3849.6	3653.9	3373.0	3072.6	2803.5	2544.2	2351.4	2333.8
47.5°	3773.2	3722.4	3722.4	3672.4	3484.6	3199.8	2907.2	2635.2	2379.8	2209.5	2178.2
50°	3567.7	3519.8	3505.1	3480.7	3297.7	3011.0	2733.1	2470.8	2217.4	2054.9	2024.6
52.5°	3348.6	3307.5	3317.2	3272.2	3095.1	2814.3	2556.9	2285.9	2053.9	1906.2	1875.9
55°	3117.6	3058.9	3067.7	3051.1	2883.7	2611.7	2359.3	2133.2	1893.5	1754.5	1726.1
57.5°	2877.9	2801.6	2832.9	2823.1	2658.7	2404.3	2178.2	1960.0	1734.0	1605.8	1578.4
60°	2632.3	2558.9	2591.2	2582.4	2427.7	2196.8	1991.3	1788.8	1575.4	1459.0	1431.6
62.5°	2379.8	2312.3	2341.6	2334.8	2192.9	1984.5	1805.4	1619.5	1415.9	1311.2	1285.8
65°	2125.4	2060.8	2087.2	2082.3	1951.2	1792.7	1614.6	1444.3	1255.5	1164.5	1139.0
67.5°	1865.1	1805.4	1829.9	1829.9	1709.5	1557.8	1422.8	1267.2	1097.9	1019.6	996.2
70°	1606.8	1551.0	1572.5	1570.6	1468.8	1345.5	1229.0	1090.1	938.4	873.8	854.3
72.5°	1346.5	1297.5	1317.1	1315.2	1230.0	1150.8	1035.3	914.9	782.8	731.0	713.4
75°	1094.0	1048.0	1066.6	1064.6	995.2	920.8	843.5	743.7	630.2	594.0	576.4
77.5°	853.3	806.3	822.0	822.0	771.1	717.3	655.6	578.3	498.1	458.9	446.2
80°	622.3	599.8	592.0	593.0	558.7	523.5	492.2	417.8	359.1	332.7	323.9
82.5°	409.0	390.4	382.6	384.6	365.0	343.5	323.9	272.0	232.9	217.2	212.3
85°	217.2	203.5	196.7	201.6	197.7	185.9	176.1	140.9	116.4	110.6	107.6
87.5°	68.5	59.7	54.8	72.4	61.6	54.8	52.8	42.1	32.3	32.3	31.3
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°	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0
2.5°	4189.1	4189.1	4151.0	4142.1	4138.2	4143.1	4105.0	4098.1	4152.9	4134.3	4092.2
5°	4155.8	4153.9	4100.1	4090.3	4090.3	4084.4	4041.4	4031.6	4086.4	4070.7	4024.7
7.5°	4114.7	4108.9	4045.3	4038.4	4028.6	4024.7	3976.8	3969.9	4016.9	4007.1	3964.1
10°	4064.8	4059.0	3983.6	3978.7	3968.0	3960.1	3915.1	3910.2	3958.2	3942.5	3908.3
12.5°	3999.3	3988.5	3911.2	3906.3	3897.5	3894.6	3850.5	3848.6	3901.4	3885.8	3849.6
15°	3913.2	3904.4	3818.3	3820.2	3821.2	3821.2	3786.0	3784.0	3835.9	3829.0	3789.9
17.5°	3818.3	3806.5	3724.3	3730.2	3737.0	3744.9	3717.5	3722.4	3777.2	3768.3	3733.1
20°	3710.6	3698.9	3618.6	3635.3	3649.9	3665.6	3648.0	3661.7	3712.6	3708.7	3682.2
22.5°	3590.3	3578.5	3504.1	3529.6	3554.0	3583.4	3575.6	3591.2	3645.0	3644.1	3620.6
25°	3443.5	3446.4	3380.8	3412.2	3453.3	3494.4	3497.3	3522.7	3582.4	3576.6	3555.0
27.5°	3306.5	3310.4	3240.9	3293.8	3348.6	3401.4	3414.1	3449.3	3510.0	3505.1	3486.5
30°	3162.6	3167.5	3100.0	3172.4	3239.0	3303.5	3330.9	3378.9	3440.5	3440.5	3421.0
32.5°	3012.9	3021.7	2951.3	3048.1	3125.4	3200.8	3248.7	3298.6	3369.1	3367.1	3350.5
35°	2859.3	2869.1	2804.5	2927.8	3005.1	3097.1	3156.8	3223.3	3285.9	3286.9	3274.2
37.5°	2702.7	2714.5	2655.7	2790.8	2878.9	2987.5	3063.8	3130.3	3199.8	3203.7	3192.0
40°	2547.1	2559.9	2509.0	2639.1	2750.7	2872.0	2960.1	3038.4	3114.7	3116.6	3108.8
42.5°	2391.5	2405.2	2367.1	2494.3	2620.5	2750.7	2854.4	2943.4	3021.7	3026.6	3017.8
45°	2239.9	2251.6	2224.2	2363.2	2484.5	2626.4	2745.8	2846.6	2925.8	2932.7	2929.7
47.5°	2089.2	2099.9	2075.5	2202.7	2342.6	2493.3	2631.3	2742.8	2827.0	2834.8	2832.9
50°	1941.4	1950.2	1923.8	2056.9	2195.8	2356.3	2500.2	2629.3	2723.3	2731.1	2730.1
52.5°	1794.6	1803.4	1780.9	1920.9	2047.1	2216.4	2373.0	2512.9	2605.8	2617.6	2619.5
55°	1652.7	1656.7	1639.0	1773.1	1895.4	2072.5	2252.6	2388.6	2481.6	2491.4	2497.2
57.5°	1510.9	1511.8	1497.2	1625.3	1742.8	1923.8	2112.7	2255.5	2343.6	2353.4	2362.2
60°	1370.0	1369.0	1352.3	1476.6	1589.1	1768.2	1964.9	2106.8	2191.9	2200.7	2212.5
62.5°	1230.0	1227.1	1212.4	1326.9	1432.6	1609.7	1807.4	1944.4	2025.6	2031.4	2047.1
65°	1091.1	1088.1	1074.4	1180.1	1276.0	1445.3	1639.0	1769.2	1842.6	1850.4	1847.5
67.5°	954.1	948.2	937.4	1032.4	1119.4	1276.0	1461.9	1586.2	1646.9	1653.7	1672.3
70°	817.1	810.2	785.8	886.6	962.9	1102.8	1276.0	1386.6	1437.5	1444.3	1441.4
72.5°	682.0	675.2	648.8	741.7	806.3	928.6	1083.2	1175.2	1219.3	1225.1	1225.1
75°	550.9	547.0	530.4	600.8	654.6	754.5	885.6	961.9	996.2	1003.0	1001.0
77.5°	424.7	421.7	405.1	465.8	507.9	582.2	687.9	747.6	773.0	780.9	797.5
80°	304.3	303.3	276.9	336.6	355.2	417.8	495.1	541.1	554.8	565.6	577.3
82.5°	194.7	195.7	169.3	220.2	228.0	268.1	316.1	344.4	354.2	363.0	371.8
85°	94.9	98.8	84.2	116.4	117.4	138.0	158.5	169.3	173.2	180.1	187.9
87.5°	24.5	28.4	15.7	33.3	29.4	38.2	44.0	47.0	46.0	50.9	53.8
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°	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0
2.5°	4105.9	4137.3	4121.6	4172.5	4192.1	4160.7	4215.5	4216.5	4177.4	4223.4	4248.8
5°	4042.3	4074.6	4064.8	4117.7	4142.1	4114.7	4181.3	4194.0	4155.8	4207.7	4248.8
7.5°	3977.8	4015.9	4003.2	4057.0	4086.4	4064.8	4136.3	4156.8	4127.5	4184.2	4239.0
10°	3922.0	3954.3	3940.6	3997.3	4022.8	4005.2	4075.6	4113.8	4086.4	4155.8	4221.4
12.5°	3867.2	3893.6	3877.9	3924.9	3949.4	3926.9	4013.0	4048.2	4028.6	4101.0	4185.2
15°	3796.7	3826.1	3804.6	3846.6	3865.2	3845.6	3916.1	3976.8	3952.3	4031.6	4124.5
17.5°	3742.9	3759.5	3730.2	3763.5	3774.2	3747.8	3819.2	3878.9	3861.3	3947.4	4055.1
20°	3683.2	3696.9	3655.8	3674.4	3673.4	3640.2	3705.7	3764.4	3752.7	3847.6	3969.9
22.5°	3616.7	3623.5	3575.6	3579.5	3577.5	3522.7	3581.4	3641.1	3636.2	3732.1	3869.1
25°	3546.2	3547.2	3485.5	3483.6	3462.1	3397.5	3449.3	3516.9	3502.2	3605.9	3749.8
27.5°	3476.7	3467.0	3392.6	3375.0	3340.7	3263.4	3309.4	3370.1	3361.3	3463.0	3622.5
30°	3402.4	3389.7	3298.6	3266.4	3216.5	3127.4	3165.6	3222.3	3227.2	3316.3	3483.6
32.5°	3331.9	3299.6	3198.8	3151.9	3089.2	2985.5	3006.1	3063.8	3071.6	3161.7	3333.9
35°	3240.9	3219.4	3095.1	3014.9	2953.2	2839.7	2861.2	2901.4	2913.1	3001.2	3176.3
37.5°	3154.8	3120.6	2988.5	2890.6	2811.3	2692.0	2697.8	2738.9	2750.7	2839.7	3012.9
40°	3065.8	3016.8	2874.9	2760.5	2669.4	2544.2	2537.3	2580.4	2589.2	2676.3	2832.9
42.5°	2970.8	2912.1	2752.6	2627.4	2522.7	2395.5	2381.8	2418.9	2428.7	2513.9	2667.5
45°	2874.9	2804.5	2627.4	2490.4	2375.9	2245.7	2232.0	2260.4	2275.1	2355.3	2503.1
47.5°	2773.2	2691.0	2498.2	2345.6	2227.1	2097.0	2080.4	2108.7	2120.5	2199.8	2339.7
50°	2666.5	2566.7	2365.1	2196.8	2079.4	1951.2	1926.7	1960.0	1970.8	2045.1	2182.1
52.5°	2549.1	2438.5	2223.2	2047.1	1929.7	1807.4	1778.0	1810.3	1823.0	1895.4	2021.7
55°	2424.8	2305.4	2080.4	1909.1	1781.9	1662.5	1638.1	1650.8	1678.2	1746.7	1864.1
57.5°	2284.9	2166.5	1929.7	1755.5	1633.2	1518.7	1498.1	1509.9	1535.3	1601.9	1707.5
60°	2136.1	2010.9	1776.0	1601.9	1483.5	1374.8	1356.3	1367.0	1394.4	1455.1	1552.9
62.5°	1989.4	1848.5	1617.5	1444.3	1336.7	1235.9	1231.0	1227.1	1252.5	1311.2	1397.4
65°	1811.3	1676.2	1452.1	1287.8	1189.9	1098.9	1079.3	1088.1	1112.6	1166.4	1256.4
67.5°	1620.5	1498.1	1282.9	1131.2	1044.1	962.9	946.2	950.2	975.6	1022.6	1100.9
70°	1417.9	1310.3	1109.7	973.6	900.3	823.9	813.2	814.1	838.6	879.7	948.2
72.5°	1205.6	1108.7	934.5	818.1	757.4	702.6	692.8	681.1	703.6	738.8	797.5
75°	989.3	904.2	760.3	665.4	617.5	571.5	562.7	550.9	573.4	603.8	649.7
77.5°	771.1	702.6	591.0	517.6	480.5	446.2	438.4	425.7	448.2	470.7	506.9
80°	557.8	507.9	441.3	364.0	351.3	328.8	321.0	307.3	328.8	343.5	370.9
82.5°	360.1	326.8	288.7	234.8	232.9	216.3	212.3	196.7	216.3	225.1	245.6
85°	182.0	166.4	156.6	119.4	123.3	112.5	111.6	94.9	110.6	114.5	126.2
87.5°	51.9	54.8	48.9	29.4	37.2	35.2	35.2	25.4	35.2	35.2	40.1
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: P837820

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3HI-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0	4195.0
2.5°	4198.9	4215.5	4219.5	4218.5	4229.2	4287.9	4268.4	4287.9
5°	4208.7	4245.9	4255.7	4269.4	4287.0	4353.5	4332.0	4355.5
7.5°	4214.6	4270.3	4291.9	4318.3	4346.7	4421.0	4403.4	4426.9
10°	4214.6	4287.0	4318.3	4362.3	4400.5	4486.6	4470.0	4497.4
12.5°	4196.9	4289.9	4333.9	4395.6	4444.5	4537.5	4530.6	4550.2
15°	4160.7	4275.2	4335.9	4415.2	4475.8	4579.6	4576.6	4600.1
17.5°	4111.8	4249.8	4323.2	4423.0	4499.3	4615.8	4622.6	4635.3
20°	4050.2	4201.8	4297.7	4420.1	4515.9	4644.1	4652.9	4670.6
22.5°	3968.9	4144.1	4259.6	4407.3	4517.9	4655.9	4671.5	4688.2
25°	3873.0	4074.6	4209.7	4382.9	4508.1	4654.9	4676.4	4691.1
27.5°	3763.5	3984.6	4146.1	4343.7	4480.7	4639.2	4665.7	4683.3
30°	3636.2	3888.7	4073.6	4292.8	4443.5	4609.9	4638.3	4655.9
32.5°	3505.1	3783.0	3987.5	4227.3	4389.7	4562.9	4587.4	4601.1
35°	3362.3	3654.8	3883.8	4143.1	4320.2	4487.6	4506.2	4520.8
37.5°	3206.7	3515.9	3765.4	4048.2	4222.4	4382.9	4399.5	4416.1
40°	3046.2	3370.1	3632.3	3931.8	4105.9	4254.7	4272.3	4284.0
42.5°	2884.7	3208.6	3490.4	3794.8	3968.0	4110.8	4121.6	4133.3
45°	2721.3	3041.3	3330.9	3643.1	3814.3	3948.4	3952.3	3962.1
47.5°	2555.0	2868.1	3155.8	3469.9	3639.2	3761.5	3765.4	3773.2
50°	2387.6	2694.9	2968.9	3283.0	3448.4	3577.5	3559.9	3567.7
52.5°	2223.2	2512.9	2792.7	3081.4	3244.8	3359.3	3364.2	3348.6
55°	2061.8	2334.8	2592.1	2870.0	3025.6	3114.7	3111.7	3117.6
57.5°	1898.4	2154.7	2390.6	2645.0	2796.7	2880.8	2898.4	2877.9
60°	1732.0	1972.7	2184.1	2414.1	2560.8	2631.3	2651.8	2632.3
62.5°	1566.6	1787.8	1979.6	2180.2	2316.2	2403.3	2401.3	2379.8
65°	1401.3	1601.9	1773.1	1943.4	2061.8	2148.9	2145.0	2125.4
67.5°	1248.6	1414.0	1567.6	1705.6	1808.3	1868.0	1888.6	1865.1
70°	1080.3	1223.2	1358.2	1468.8	1553.9	1607.7	1627.3	1606.8
72.5°	912.0	1033.3	1128.3	1234.9	1300.5	1345.5	1366.0	1346.5
75°	745.6	845.5	922.8	1005.9	1051.9	1090.1	1113.6	1094.0
77.5°	584.2	661.5	723.1	783.8	836.6	845.5	866.0	853.3
80°	430.6	486.3	531.3	571.5	609.6	613.5	630.2	622.3
82.5°	286.7	323.9	335.6	377.7	402.2	398.3	414.9	409.0
85°	151.7	174.2	194.7	207.4	221.1	208.4	223.1	217.2
87.5°	50.9	53.8	47.0	66.5	73.4	62.6	71.4	68.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)