

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: P837811

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3HI-40-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837811
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-40-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

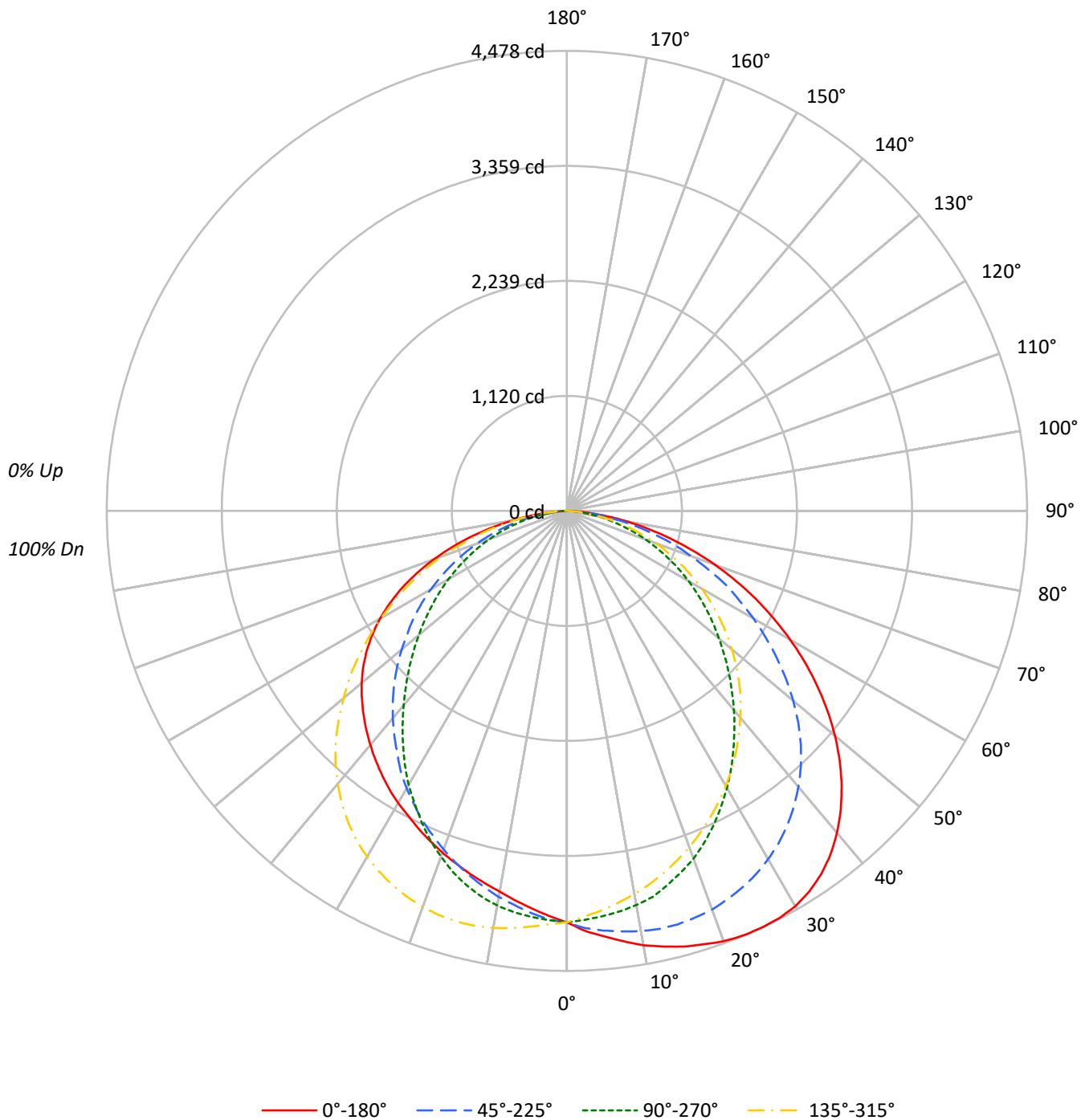
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11748.1 lumens
Efficiency: N/A
Efficacy: 89.0 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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10775	10775	10775	10775
5°	11230	10698	10496	10716
10°	11730	10643	10283	10658
15°	12233	10508	10182	10510
20°	12767	10317	10138	10258
25°	13296	10029	10137	9926
30°	13809	9679	10205	9572
35°	14176	9282	10307	9135
40°	14365	8882	10451	8682
45°	14393	8478	10653	8265
50°	14257	8091	10914	7875
55°	13962	7730	11157	7515
60°	13523	7354	11306	7163
65°	12918	6923	11247	6762
70°	12067	6415	10847	6298
75°	10858	5721	9954	5691
80°	9207	4792	8367	4863
85°	6404	3171	5308	3257

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	3.2
10°-20°	1100.9	9.4
20°-30°	1687.2	14.4
30°-40°	2051.5	17.5
40°-50°	2132.7	18.2
50°-60°	1926.5	16.4
60°-70°	1464.6	12.5
70°-80°	816.5	7.0
80°-90°	188.0	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°	3168.3	27.0
0°-40°	5219.8	44.4
0°-60°	9279.0	79.0
0°-90°	11748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11748.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4004	4004	4004	4004	4004	
5°	4158	3960	3886	3967	4158	401
15°	4391	3772	3655	3773	4391	1245
25°	4478	3378	3414	3343	4478	2068
35°	4315	2826	3138	2781	4315	2695
45°	3782	2228	2799	2172	3782	2912
55°	2976	1648	2378	1602	2976	2657
65°	2029	1087	1766	1062	2029	2005
75°	1044	550	957	547	1044	1109
85°	207	103	172	106	207	261
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°	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3
2.5°	4093.0	4033.3	4034.2	4086.5	4046.3	4066.0	4009.9	4031.4	4024.9	4029.5	3983.8
5°	4157.5	4093.0	4092.1	4136.9	4092.1	4100.5	4029.5	4043.5	4023.0	4009.9	3960.4
7.5°	4225.7	4161.2	4154.7	4193.9	4135.1	4128.5	4050.1	4050.1	4012.7	3980.0	3933.3
10°	4292.9	4226.6	4218.2	4248.1	4175.2	4153.8	4058.5	4043.5	3994.0	3945.5	3895.0
12.5°	4343.4	4276.1	4269.6	4288.3	4206.1	4166.8	4058.5	4029.5	3956.7	3888.5	3849.3
15°	4391.0	4321.9	4304.1	4313.5	4219.1	4166.8	4045.4	4000.6	3907.2	3817.5	3771.7
17.5°	4424.6	4358.3	4340.6	4339.6	4225.7	4151.0	4017.4	3955.7	3843.6	3735.3	3689.5
20°	4458.3	4391.9	4369.5	4352.7	4223.8	4129.5	3976.3	3893.2	3762.4	3641.0	3602.7
22.5°	4475.1	4406.9	4382.6	4357.4	4211.7	4090.2	3925.8	3820.3	3670.8	3526.1	3494.3
25°	4477.9	4407.8	4381.7	4345.2	4187.4	4043.5	3860.5	3732.5	3565.3	3404.6	3377.6
27.5°	4470.4	4393.8	4367.7	4323.8	4151.0	3986.6	3782.9	3632.6	3453.2	3275.7	3246.8
30°	4444.2	4366.7	4341.5	4284.5	4099.6	3916.5	3697.9	3521.4	3329.0	3140.3	3115.1
32.5°	4391.9	4316.3	4295.7	4238.8	4043.5	3835.2	3598.9	3401.8	3191.7	3011.4	2974.0
35°	4315.3	4239.7	4226.6	4166.8	3965.1	3738.1	3490.6	3271.1	3046.0	2862.0	2825.5
37.5°	4215.4	4151.9	4132.3	4073.4	3872.6	3627.9	3366.3	3129.1	2897.4	2699.4	2677.0
40°	4089.3	4029.5	4014.6	3962.3	3765.2	3505.5	3231.8	2982.4	2744.3	2560.3	2528.5
42.5°	3945.5	3889.4	3881.0	3826.8	3632.6	3370.1	3086.1	2830.2	2584.5	2407.1	2375.3
45°	3782.0	3727.8	3726.0	3674.6	3487.8	3219.7	2932.9	2676.1	2428.6	2244.5	2227.7
47.5°	3601.7	3553.2	3553.2	3505.5	3326.2	3054.4	2775.1	2515.4	2271.6	2109.1	2079.2
50°	3405.6	3359.8	3345.8	3322.4	3147.8	2874.1	2608.8	2358.5	2116.6	1961.5	1932.6
52.5°	3196.3	3157.1	3166.5	3123.5	2954.4	2686.4	2440.7	2182.0	1960.6	1819.5	1790.6
55°	2975.9	2919.9	2928.3	2912.4	2752.7	2493.0	2252.0	2036.2	1807.4	1674.8	1647.7
57.5°	2747.1	2674.2	2704.1	2694.8	2537.8	2295.0	2079.2	1870.9	1655.2	1532.8	1506.6
60°	2512.6	2442.6	2473.4	2465.0	2317.4	2097.0	1900.8	1707.5	1503.8	1392.7	1366.5
62.5°	2271.6	2207.2	2235.2	2228.7	2093.2	1894.3	1723.3	1545.9	1351.6	1251.6	1227.4
65°	2028.8	1967.1	1992.3	1987.7	1862.5	1711.2	1541.2	1378.7	1198.4	1111.5	1087.2
67.5°	1780.3	1723.3	1746.7	1746.7	1631.8	1487.0	1358.1	1209.6	1048.0	973.3	950.9
70°	1533.7	1480.5	1501.0	1499.2	1402.0	1284.3	1173.2	1040.5	895.8	834.1	815.4
72.5°	1285.3	1238.6	1257.2	1255.4	1174.1	1098.5	988.2	873.3	747.2	697.7	680.9
75°	1044.3	1000.4	1018.1	1016.3	949.9	878.9	805.2	709.9	601.5	567.0	550.2
77.5°	814.5	769.7	784.6	784.6	736.0	684.7	625.8	552.0	475.4	438.1	425.9
80°	594.1	572.6	565.1	566.0	533.3	499.7	469.8	398.8	342.8	317.6	309.2
82.5°	390.4	372.7	365.2	367.1	348.4	327.9	309.2	259.7	222.3	207.4	202.7
85°	207.4	194.3	187.7	192.4	188.7	177.5	168.1	134.5	111.2	105.5	102.7
87.5°	65.4	57.0	52.3	69.1	58.8	52.3	50.4	40.2	30.8	30.8	29.9
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°	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3
2.5°	3998.7	3998.7	3962.3	3953.9	3950.1	3954.8	3918.4	3911.8	3964.1	3946.4	3906.2
5°	3966.9	3965.1	3913.7	3904.4	3904.4	3898.8	3857.7	3848.3	3900.6	3885.7	3841.8
7.5°	3927.7	3922.1	3861.4	3854.9	3845.5	3841.8	3796.0	3789.5	3834.3	3825.0	3783.9
10°	3880.1	3874.5	3802.5	3797.9	3787.6	3780.1	3737.2	3732.5	3778.3	3763.3	3730.6
12.5°	3817.5	3807.2	3733.4	3728.8	3720.4	3717.6	3675.5	3673.6	3724.1	3709.1	3674.6
15°	3735.3	3726.9	3644.7	3646.6	3647.5	3647.5	3613.9	3612.0	3661.5	3655.0	3617.6
17.5°	3644.7	3633.5	3555.0	3560.6	3567.2	3574.6	3548.5	3553.2	3605.5	3597.1	3563.4
20°	3541.9	3530.7	3454.1	3470.0	3484.0	3499.0	3482.2	3495.2	3543.8	3540.1	3514.9
22.5°	3427.1	3415.8	3344.9	3369.1	3392.5	3420.5	3413.0	3428.0	3479.4	3478.4	3456.0
25°	3286.9	3289.8	3227.2	3257.1	3296.3	3335.5	3338.3	3362.6	3419.6	3414.0	3393.4
27.5°	3156.2	3159.9	3093.6	3144.0	3196.3	3246.8	3258.9	3292.6	3350.5	3345.8	3328.0
30°	3018.9	3023.5	2959.1	3028.2	3091.7	3153.4	3179.5	3225.3	3284.1	3284.1	3265.5
32.5°	2876.0	2884.4	2817.1	2909.6	2983.4	3055.3	3101.1	3148.7	3216.0	3214.1	3198.2
35°	2729.3	2738.7	2677.0	2794.7	2868.5	2956.3	3013.3	3076.8	3136.6	3137.5	3125.4
37.5°	2579.9	2591.1	2535.0	2663.9	2748.0	2851.7	2924.5	2988.1	3054.4	3058.1	3046.9
40°	2431.4	2443.5	2394.9	2519.2	2625.6	2741.5	2825.5	2900.2	2973.1	2975.0	2967.5
42.5°	2282.8	2295.9	2259.5	2380.9	2501.4	2625.6	2724.6	2809.6	2884.4	2889.0	2880.6
45°	2138.1	2149.3	2123.1	2255.7	2371.6	2507.0	2621.0	2717.2	2792.8	2799.4	2796.6
47.5°	1994.2	2004.5	1981.1	2102.6	2236.1	2380.0	2511.7	2618.2	2698.5	2706.0	2704.1
50°	1853.2	1861.6	1836.4	1963.4	2096.0	2249.2	2386.5	2509.8	2599.5	2607.0	2606.0
52.5°	1713.1	1721.5	1700.0	1833.6	1954.0	2115.6	2265.1	2398.7	2487.4	2498.6	2500.5
55°	1577.6	1581.4	1564.5	1692.5	1809.3	1978.3	2150.2	2280.0	2368.8	2378.1	2383.7
57.5°	1442.2	1443.1	1429.1	1551.5	1663.6	1836.4	2016.6	2153.0	2237.1	2246.4	2254.8
60°	1307.7	1306.7	1290.9	1409.5	1516.9	1687.8	1875.6	2011.0	2092.3	2100.7	2111.9
62.5°	1174.1	1171.3	1157.3	1266.6	1367.5	1536.5	1725.2	1856.0	1933.5	1939.1	1954.0
65°	1041.5	1038.7	1025.6	1126.5	1218.0	1379.6	1564.5	1688.8	1758.8	1766.3	1763.5
67.5°	910.7	905.1	894.8	985.4	1068.6	1218.0	1395.5	1514.1	1572.0	1578.6	1596.3
70°	779.9	773.4	750.0	846.3	919.1	1052.7	1218.0	1323.6	1372.1	1378.7	1375.9
72.5°	651.0	644.5	619.3	708.0	769.7	886.4	1034.0	1121.8	1163.8	1169.4	1169.4
75°	525.9	522.1	506.3	573.5	624.9	720.2	845.3	918.2	950.9	957.4	955.5
77.5°	405.4	402.6	386.7	444.6	484.8	555.8	656.6	713.6	737.9	745.4	761.3
80°	290.5	289.6	264.3	321.3	339.1	398.8	472.6	516.5	529.6	539.9	551.1
82.5°	185.9	186.8	161.6	210.2	217.6	255.9	301.7	328.8	338.1	346.5	354.9
85°	90.6	94.3	80.3	111.2	112.1	131.7	151.3	161.6	165.3	171.9	179.3
87.5°	23.4	27.1	14.9	31.8	28.0	36.4	42.0	44.8	43.9	48.6	51.4
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°	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3
2.5°	3919.3	3949.2	3934.3	3982.8	4001.5	3971.6	4023.9	4024.9	3987.5	4031.4	4055.7
5°	3858.6	3889.4	3880.1	3930.5	3953.9	3927.7	3991.2	4003.4	3966.9	4016.4	4055.7
7.5°	3796.9	3833.4	3821.2	3872.6	3900.6	3880.1	3948.3	3967.9	3939.9	3994.0	4046.3
10°	3743.7	3774.5	3761.5	3815.6	3839.9	3823.1	3890.4	3926.8	3900.6	3966.9	4029.5
12.5°	3691.4	3716.6	3701.7	3746.5	3769.9	3748.4	3830.6	3864.2	3845.5	3914.6	3995.0
15°	3624.1	3652.2	3631.6	3671.8	3689.5	3670.8	3738.1	3796.0	3772.7	3848.3	3937.1
17.5°	3572.8	3588.7	3560.6	3592.4	3602.7	3577.4	3645.6	3702.6	3685.8	3768.0	3870.7
20°	3515.8	3528.9	3489.6	3507.4	3506.5	3474.7	3537.3	3593.3	3582.1	3672.7	3789.5
22.5°	3452.3	3458.8	3413.0	3416.8	3414.9	3362.6	3418.7	3475.6	3471.0	3562.5	3693.3
25°	3385.0	3386.0	3327.1	3325.2	3304.7	3243.0	3292.6	3357.0	3343.0	3442.0	3579.3
27.5°	3318.7	3309.4	3238.4	3221.6	3188.9	3115.1	3159.0	3216.9	3208.5	3305.6	3457.9
30°	3247.7	3235.6	3148.7	3117.9	3070.2	2985.2	3021.7	3075.9	3080.5	3165.5	3325.2
32.5°	3180.5	3149.6	3053.4	3008.6	2948.8	2849.8	2869.4	2924.5	2932.0	3017.9	3182.3
35°	3093.6	3073.1	2954.4	2877.8	2819.0	2710.6	2731.2	2769.5	2780.7	2864.8	3032.0
37.5°	3011.4	2978.7	2852.6	2759.2	2683.5	2569.6	2575.2	2614.4	2625.6	2710.6	2876.0
40°	2926.4	2879.7	2744.3	2635.0	2548.1	2428.6	2422.0	2463.1	2471.5	2554.6	2704.1
42.5°	2835.8	2779.8	2627.5	2507.9	2408.0	2286.6	2273.5	2309.0	2318.3	2399.6	2546.2
45°	2744.3	2677.0	2507.9	2377.2	2267.9	2143.7	2130.6	2157.7	2171.7	2248.3	2389.3
47.5°	2647.1	2568.7	2384.6	2238.9	2125.9	2001.7	1985.8	2012.9	2024.1	2099.8	2233.3
50°	2545.3	2450.0	2257.6	2097.0	1984.9	1862.5	1839.2	1870.9	1881.2	1952.2	2082.9
52.5°	2433.2	2327.7	2122.2	1954.0	1842.0	1725.2	1697.2	1728.0	1740.1	1809.3	1929.8
55°	2314.6	2200.6	1985.8	1822.3	1700.9	1587.0	1563.6	1575.8	1601.9	1667.3	1779.4
57.5°	2181.0	2068.0	1842.0	1675.7	1558.9	1449.7	1430.0	1441.3	1465.5	1529.1	1629.9
60°	2039.0	1919.5	1695.3	1529.1	1416.0	1312.4	1294.6	1304.9	1331.0	1388.9	1482.3
62.5°	1898.9	1764.4	1544.0	1378.7	1275.9	1179.7	1175.0	1171.3	1195.6	1251.6	1333.8
65°	1728.9	1600.0	1386.1	1229.2	1135.8	1048.9	1030.3	1038.7	1062.0	1113.4	1199.3
67.5°	1546.8	1430.0	1224.5	1079.8	996.6	919.1	903.2	907.0	931.3	976.1	1050.8
70°	1353.4	1250.7	1059.2	929.4	859.3	786.5	776.2	777.1	800.5	839.7	905.1
72.5°	1150.8	1058.3	892.0	780.9	723.0	670.7	661.3	650.1	671.6	705.2	761.3
75°	944.3	863.1	725.8	635.2	589.4	545.5	537.1	525.9	547.4	576.3	620.2
77.5°	736.0	670.7	564.2	494.1	458.6	425.9	418.5	406.3	427.8	449.3	483.8
80°	532.4	484.8	421.3	347.5	335.3	313.8	306.4	293.3	313.8	327.9	354.0
82.5°	343.7	312.0	275.5	224.2	222.3	206.4	202.7	187.7	206.4	214.8	234.4
85°	173.7	158.8	149.4	114.0	117.7	107.4	106.5	90.6	105.5	109.3	120.5
87.5°	49.5	52.3	46.7	28.0	35.5	33.6	33.6	24.3	33.6	33.6	38.3
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: P837811

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3	4004.3
2.5°	4008.0	4023.9	4027.7	4026.7	4037.0	4093.0	4074.4	4093.0
5°	4017.4	4052.9	4062.2	4075.3	4092.1	4155.6	4135.1	4157.5
7.5°	4023.0	4076.2	4096.8	4122.0	4149.1	4220.1	4203.3	4225.7
10°	4023.0	4092.1	4122.0	4164.0	4200.5	4282.7	4266.8	4292.9
12.5°	4006.2	4094.9	4136.9	4195.8	4242.5	4331.2	4324.7	4343.4
15°	3971.6	4080.9	4138.8	4214.5	4272.4	4371.4	4368.6	4391.0
17.5°	3924.9	4056.6	4126.7	4221.9	4294.8	4406.0	4412.5	4424.6
20°	3866.1	4010.8	4102.4	4219.1	4310.7	4433.0	4441.4	4458.3
22.5°	3788.5	3955.7	4066.0	4207.0	4312.5	4444.2	4459.2	4475.1
25°	3697.0	3889.4	4018.3	4183.6	4303.2	4443.3	4463.9	4477.9
27.5°	3592.4	3803.5	3957.6	4146.3	4277.1	4428.4	4453.6	4470.4
30°	3471.0	3711.9	3888.5	4097.7	4241.6	4400.3	4427.4	4444.2
32.5°	3345.8	3611.1	3806.3	4035.1	4190.2	4355.5	4378.9	4391.9
35°	3209.4	3488.7	3707.3	3954.8	4123.9	4283.6	4301.3	4315.3
37.5°	3060.9	3356.1	3594.3	3864.2	4030.5	4183.6	4199.5	4215.4
40°	2907.7	3216.9	3467.2	3753.0	3919.3	4061.3	4078.1	4089.3
42.5°	2753.6	3062.8	3331.8	3622.3	3787.6	3924.0	3934.3	3945.5
45°	2597.6	2903.1	3179.5	3477.5	3641.0	3768.9	3772.7	3782.0
47.5°	2438.8	2737.7	3012.3	3312.2	3473.8	3590.5	3594.3	3601.7
50°	2279.1	2572.4	2833.9	3133.8	3291.6	3414.9	3398.1	3405.6
52.5°	2122.2	2398.7	2665.8	2941.3	3097.3	3206.6	3211.3	3196.3
55°	1968.1	2228.7	2474.3	2739.6	2888.1	2973.1	2970.3	2975.9
57.5°	1812.1	2056.8	2281.9	2524.8	2669.5	2749.9	2766.7	2747.1
60°	1653.3	1883.1	2084.8	2304.3	2444.4	2511.7	2531.3	2512.6
62.5°	1495.4	1706.5	1889.6	2081.1	2210.9	2294.0	2292.2	2271.6
65°	1337.6	1529.1	1692.5	1855.0	1968.1	2051.2	2047.5	2028.8
67.5°	1191.9	1349.7	1496.4	1628.1	1726.1	1783.1	1802.7	1780.3
70°	1031.2	1167.6	1296.5	1402.0	1483.3	1534.7	1553.3	1533.7
72.5°	870.5	986.4	1077.0	1178.8	1241.4	1284.3	1303.9	1285.3
75°	711.8	807.0	880.8	960.2	1004.1	1040.5	1063.0	1044.3
77.5°	557.6	631.4	690.3	748.2	798.6	807.0	826.6	814.5
80°	411.0	464.2	507.2	545.5	581.9	585.7	601.5	594.1
82.5°	273.7	309.2	320.4	360.5	383.9	380.2	396.0	390.4
85°	144.8	166.3	185.9	198.0	211.1	199.0	213.0	207.4
87.5°	48.6	51.4	44.8	63.5	70.1	59.8	68.2	65.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)