

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: P838242

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3STD-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: P838242
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-LD4-3STD-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

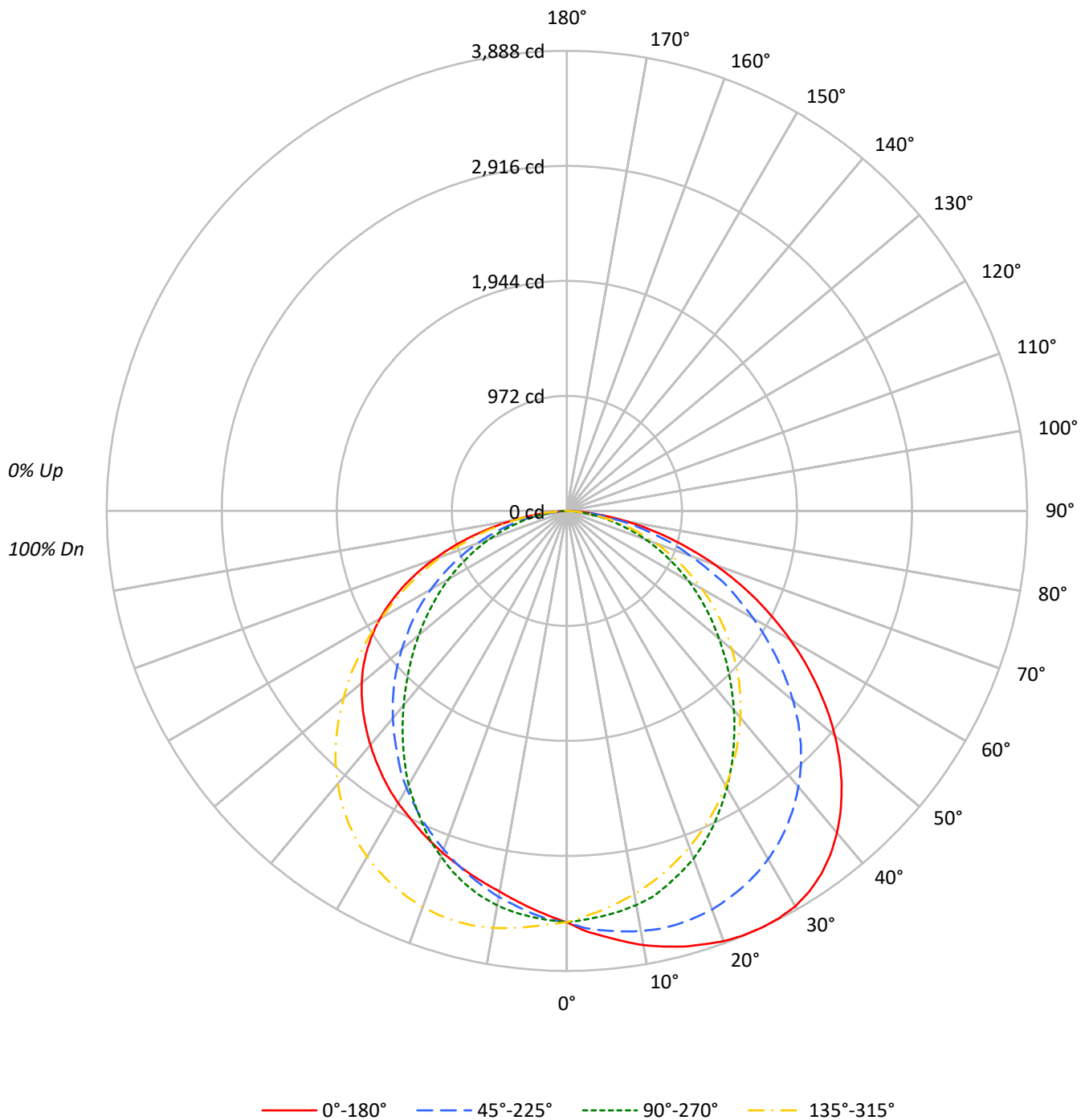
Lumens per Lamp: N/A
Luminaire Lumens: 10199.5 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	4678	4678	4678	4678
5°	4875	4644	4556	4652
10°	5092	4620	4464	4627
15°	5310	4561	4420	4562
20°	5542	4479	4401	4453
25°	5771	4353	4400	4309
30°	5995	4202	4430	4155
35°	6154	4029	4474	3965
40°	6236	3856	4536	3769
45°	6248	3680	4625	3588
50°	6189	3512	4738	3419
55°	6061	3356	4843	3262
60°	5870	3193	4908	3110
65°	5607	3005	4882	2935
70°	5238	2785	4709	2734
75°	4713	2483	4321	2470
80°	3997	2080	3632	2111
85°	2779	1377	2303	1414

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	3.2
10°-20°	955.8	9.4
20°-30°	1464.8	14.4
30°-40°	1781.1	17.5
40°-50°	1851.6	18.2
50°-60°	1672.5	16.4
60°-70°	1271.5	12.5
70°-80°	708.9	7.0
80°-90°	163.2	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°	2750.7	27.0
0°-40°	4531.8	44.4
0°-60°	8055.8	79.0
0°-90°	10199.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10199.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3476	3476	3476	3476	3476	
5°	3610	3438	3374	3444	3610	348
15°	3812	3274	3173	3275	3812	1081
25°	3888	2932	2964	2902	3888	1796
35°	3746	2453	2724	2414	3746	2340
45°	3284	1934	2430	1885	3284	2528
55°	2584	1430	2065	1391	2584	2306
65°	1761	944	1534	922	1761	1741
75°	907	478	831	475	907	963
85°	180	89	149	92	180	227
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°	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5
2.5°	3553.5	3501.6	3502.4	3547.8	3513.0	3530.0	3481.3	3500.0	3494.3	3498.4	3458.6
5°	3609.5	3553.5	3552.7	3591.6	3552.7	3560.0	3498.4	3510.5	3492.7	3481.3	3438.3
7.5°	3668.7	3612.7	3607.0	3641.1	3590.0	3584.3	3516.2	3516.2	3483.8	3455.4	3414.8
10°	3727.0	3669.5	3662.2	3688.1	3624.9	3606.2	3523.5	3510.5	3467.5	3425.4	3381.6
12.5°	3770.8	3712.4	3706.8	3723.0	3651.6	3617.6	3523.5	3498.4	3435.1	3375.9	3341.8
15°	3812.2	3752.2	3736.8	3744.9	3663.0	3617.6	3512.1	3473.2	3392.1	3314.3	3274.5
17.5°	3841.4	3783.8	3768.4	3767.6	3668.7	3603.8	3487.8	3434.3	3337.0	3242.9	3203.2
20°	3870.6	3813.0	3793.5	3778.9	3667.0	3585.1	3452.1	3380.0	3266.4	3161.0	3127.8
22.5°	3885.2	3826.0	3804.9	3783.0	3656.5	3551.1	3408.3	3316.7	3187.0	3061.3	3033.7
25°	3887.6	3826.8	3804.1	3772.5	3635.4	3510.5	3351.6	3240.5	3095.3	2955.8	2932.3
27.5°	3881.1	3814.6	3791.9	3753.8	3603.8	3461.1	3284.3	3153.7	2998.0	2843.9	2818.8
30°	3858.4	3791.1	3769.2	3719.7	3559.2	3400.2	3210.5	3057.2	2890.2	2726.4	2704.5
32.5°	3813.0	3747.3	3729.5	3680.0	3510.5	3329.7	3124.5	2953.4	2771.0	2614.4	2582.0
35°	3746.5	3680.8	3669.5	3617.6	3442.4	3245.3	3030.4	2839.9	2644.4	2484.7	2453.1
37.5°	3659.7	3604.6	3587.6	3536.5	3362.1	3149.7	2922.6	2716.6	2515.5	2343.6	2324.1
40°	3550.3	3498.4	3485.4	3440.0	3268.9	3043.4	2805.8	2589.3	2382.5	2222.8	2195.2
42.5°	3425.4	3376.7	3369.4	3322.4	3153.7	2925.8	2679.3	2457.1	2243.8	2089.8	2062.2
45°	3283.5	3236.4	3234.8	3190.2	3028.0	2795.3	2546.3	2323.3	2108.4	1948.7	1934.1
47.5°	3127.0	3084.8	3084.8	3043.4	2887.7	2651.7	2409.3	2183.8	1972.2	1831.1	1805.1
50°	2956.7	2916.9	2904.8	2884.5	2732.8	2495.2	2264.9	2047.6	1837.6	1703.0	1677.8
52.5°	2775.0	2740.9	2749.1	2711.8	2565.0	2332.2	2119.0	1894.3	1702.1	1579.7	1554.6
55°	2583.6	2535.0	2542.3	2528.5	2389.8	2164.4	1955.2	1767.8	1569.2	1454.0	1430.5
57.5°	2384.9	2321.7	2347.6	2339.5	2203.3	1992.5	1805.1	1624.3	1437.0	1330.7	1308.0
60°	2181.4	2120.6	2147.3	2140.0	2011.9	1820.5	1650.2	1482.4	1305.6	1209.1	1186.4
62.5°	1972.2	1916.2	1940.6	1934.9	1817.3	1644.6	1496.2	1342.1	1173.4	1086.6	1065.6
65°	1761.3	1707.8	1729.7	1725.7	1617.0	1485.6	1338.0	1196.9	1040.4	965.0	943.9
67.5°	1545.6	1496.2	1516.4	1516.4	1416.7	1291.0	1179.1	1050.2	909.9	845.0	825.5
70°	1331.5	1285.3	1303.2	1301.5	1217.2	1115.0	1018.5	903.4	777.7	724.2	707.9
72.5°	1115.8	1075.3	1091.5	1089.9	1019.3	953.7	858.0	758.2	648.7	605.8	591.2
75°	906.6	868.5	883.9	882.3	824.7	763.1	699.0	616.3	522.2	492.2	477.6
77.5°	707.1	668.2	681.2	681.2	639.0	594.4	543.3	479.3	412.8	380.3	369.8
80°	515.8	497.1	490.6	491.4	463.0	433.8	407.9	346.3	297.6	275.7	268.4
82.5°	339.0	323.6	317.1	318.7	302.5	284.6	268.4	225.4	193.0	180.0	176.0
85°	180.0	168.7	163.0	167.1	163.8	154.1	146.0	116.8	96.5	91.6	89.2
87.5°	56.8	49.5	45.4	60.0	51.1	45.4	43.8	34.9	26.8	26.8	25.9
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°	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5
2.5°	3471.6	3471.6	3440.0	3432.7	3429.4	3433.5	3401.9	3396.2	3441.6	3426.2	3391.3
5°	3444.0	3442.4	3397.8	3389.7	3389.7	3384.8	3349.1	3341.0	3386.4	3373.5	3335.4
7.5°	3410.0	3405.1	3352.4	3346.7	3338.6	3335.4	3295.6	3289.9	3328.9	3320.8	3285.1
10°	3368.6	3363.7	3301.3	3297.2	3288.3	3281.8	3244.5	3240.5	3280.2	3267.2	3238.9
12.5°	3314.3	3305.4	3241.3	3237.2	3229.9	3227.5	3191.0	3189.4	3233.2	3220.2	3190.2
15°	3242.9	3235.6	3164.3	3165.9	3166.7	3166.7	3137.5	3135.9	3178.8	3173.2	3140.7
17.5°	3164.3	3154.5	3086.4	3091.3	3096.9	3103.4	3080.7	3084.8	3130.2	3122.9	3093.7
20°	3075.1	3065.3	2998.8	3012.6	3024.8	3037.7	3023.2	3034.5	3076.7	3073.4	3051.5
22.5°	2975.3	2965.6	2903.9	2925.0	2945.3	2969.6	2963.1	2976.1	3020.7	3019.9	3000.4
25°	2853.7	2856.1	2801.8	2827.7	2861.8	2895.8	2898.3	2919.4	2968.8	2964.0	2946.1
27.5°	2740.1	2743.4	2685.8	2729.6	2775.0	2818.8	2829.3	2858.5	2908.8	2904.8	2889.3
30°	2620.9	2625.0	2569.0	2629.0	2684.2	2737.7	2760.4	2800.1	2851.2	2851.2	2835.0
32.5°	2496.9	2504.2	2445.8	2526.1	2590.1	2652.6	2692.3	2733.6	2792.0	2790.4	2776.6
35°	2369.5	2377.6	2324.1	2426.3	2490.4	2566.6	2616.1	2671.2	2723.1	2723.9	2713.4
37.5°	2239.8	2249.5	2200.9	2312.8	2385.8	2475.8	2539.0	2594.2	2651.7	2655.0	2645.3
40°	2110.9	2121.4	2079.2	2187.1	2279.5	2380.1	2453.1	2517.9	2581.2	2582.8	2576.3
42.5°	1981.9	1993.3	1961.6	2067.1	2171.7	2279.5	2365.5	2439.3	2504.2	2508.2	2500.9
45°	1856.2	1866.0	1843.2	1958.4	2059.0	2176.5	2275.5	2359.0	2424.7	2430.4	2427.9
47.5°	1731.3	1740.3	1720.0	1825.4	1941.4	2066.3	2180.6	2273.0	2342.8	2349.3	2347.6
50°	1608.9	1616.2	1594.3	1704.6	1819.7	1952.7	2071.9	2179.0	2256.8	2263.3	2262.5
52.5°	1487.2	1494.5	1475.9	1591.9	1696.5	1836.8	1966.5	2082.5	2159.5	2169.2	2170.9
55°	1369.7	1372.9	1358.3	1469.4	1570.8	1717.6	1866.8	1979.5	2056.5	2064.6	2069.5
57.5°	1252.1	1252.9	1240.7	1347.0	1444.3	1594.3	1750.8	1869.2	1942.2	1950.3	1957.6
60°	1135.3	1134.5	1120.7	1223.7	1317.0	1465.4	1628.3	1745.9	1816.5	1823.8	1833.5
62.5°	1019.3	1016.9	1004.7	1099.6	1187.2	1334.0	1497.8	1611.3	1678.6	1683.5	1696.5
65°	904.2	901.8	890.4	978.0	1057.5	1197.7	1358.3	1466.2	1527.0	1533.5	1531.0
67.5°	790.7	785.8	776.9	855.5	927.7	1057.5	1211.5	1314.5	1364.8	1370.5	1385.9
70°	677.1	671.5	651.2	734.7	798.0	913.9	1057.5	1149.1	1191.3	1196.9	1194.5
72.5°	565.2	559.5	537.6	614.7	668.2	769.6	897.7	973.9	1010.4	1015.3	1015.3
75°	456.6	453.3	439.5	497.9	542.5	625.2	733.9	797.1	825.5	831.2	829.6
77.5°	351.9	349.5	335.7	386.0	420.9	482.5	570.1	619.6	640.6	647.1	660.9
80°	252.2	251.4	229.5	279.0	294.4	346.3	410.3	448.4	459.8	468.7	478.4
82.5°	161.4	162.2	140.3	182.5	188.9	222.2	261.9	285.4	293.6	300.9	308.2
85°	78.7	81.9	69.7	96.5	97.3	114.3	131.4	140.3	143.5	149.2	155.7
87.5°	20.3	23.5	13.0	27.6	24.3	31.6	36.5	38.9	38.1	42.2	44.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5
2.5°	3402.7	3428.6	3415.6	3457.8	3474.0	3448.1	3493.5	3494.3	3461.9	3500.0	3521.1
5°	3350.0	3376.7	3368.6	3412.4	3432.7	3410.0	3465.1	3475.7	3444.0	3487.0	3521.1
7.5°	3296.4	3328.1	3317.5	3362.1	3386.4	3368.6	3427.8	3444.8	3420.5	3467.5	3513.0
10°	3250.2	3277.0	3265.6	3312.7	3333.7	3319.1	3377.5	3409.2	3386.4	3444.0	3498.4
12.5°	3204.8	3226.7	3213.7	3252.6	3272.9	3254.3	3325.6	3354.8	3338.6	3398.6	3468.4
15°	3146.4	3170.7	3152.9	3187.8	3203.2	3187.0	3245.3	3295.6	3275.4	3341.0	3418.1
17.5°	3101.8	3115.6	3091.3	3118.8	3127.8	3105.9	3165.1	3214.5	3199.9	3271.3	3360.5
20°	3052.3	3063.7	3029.6	3045.0	3044.2	3016.7	3071.0	3119.7	3109.9	3188.6	3289.9
22.5°	2997.2	3002.9	2963.1	2966.4	2964.8	2919.4	2968.0	3017.5	3013.4	3092.9	3206.4
25°	2938.8	2939.6	2888.5	2886.9	2869.1	2815.6	2858.5	2914.5	2902.3	2988.3	3107.5
27.5°	2881.2	2873.1	2811.5	2796.9	2768.5	2704.5	2742.6	2792.8	2785.5	2869.9	3002.1
30°	2819.6	2809.1	2733.6	2706.9	2665.5	2591.7	2623.4	2670.4	2674.5	2748.2	2886.9
32.5°	2761.2	2734.5	2650.9	2612.0	2560.1	2474.2	2491.2	2539.0	2545.5	2620.1	2762.8
35°	2685.8	2668.0	2565.0	2498.5	2447.4	2353.3	2371.2	2404.4	2414.1	2487.1	2632.3
37.5°	2614.4	2586.1	2476.6	2395.5	2329.8	2230.9	2235.7	2269.8	2279.5	2353.3	2496.9
40°	2540.6	2500.1	2382.5	2287.6	2212.2	2108.4	2102.7	2138.4	2145.7	2217.9	2347.6
42.5°	2462.0	2413.3	2281.1	2177.3	2090.6	1985.2	1973.8	2004.6	2012.7	2083.3	2210.6
45°	2382.5	2324.1	2177.3	2063.8	1968.9	1861.1	1849.7	1873.3	1885.4	1951.9	2074.4
47.5°	2298.2	2230.1	2070.3	1943.8	1845.7	1737.8	1724.0	1747.6	1757.3	1823.0	1938.9
50°	2209.8	2127.1	1960.0	1820.5	1723.2	1617.0	1596.7	1624.3	1633.2	1694.8	1808.4
52.5°	2112.5	2020.8	1842.4	1696.5	1599.2	1497.8	1473.5	1500.2	1510.8	1570.8	1675.4
55°	2009.5	1910.6	1724.0	1582.1	1476.7	1377.8	1357.5	1368.0	1390.7	1447.5	1544.8
57.5°	1893.5	1795.4	1599.2	1454.8	1353.4	1258.6	1241.5	1251.3	1272.4	1327.5	1415.1
60°	1770.3	1666.5	1471.8	1327.5	1229.4	1139.4	1124.0	1132.9	1155.6	1205.9	1286.9
62.5°	1648.6	1531.8	1340.5	1196.9	1107.7	1024.2	1020.2	1016.9	1038.0	1086.6	1158.0
65°	1501.0	1389.1	1203.4	1067.2	986.1	910.7	894.5	901.8	922.0	966.6	1041.2
67.5°	1342.9	1241.5	1063.1	937.4	865.3	798.0	784.2	787.4	808.5	847.4	912.3
70°	1175.0	1085.8	919.6	806.9	746.1	682.8	673.9	674.7	695.0	729.0	785.8
72.5°	999.1	918.8	774.4	677.9	627.7	582.2	574.1	564.4	583.1	612.3	660.9
75°	819.9	749.3	630.1	551.4	511.7	473.6	466.3	456.6	475.2	500.3	538.5
77.5°	639.0	582.2	489.8	429.0	398.2	369.8	363.3	352.8	371.4	390.1	420.1
80°	462.2	420.9	365.7	301.7	291.1	272.5	266.0	254.6	272.5	284.6	307.3
82.5°	298.4	270.9	239.2	194.6	193.0	179.2	176.0	163.0	179.2	186.5	203.5
85°	150.8	137.9	129.7	98.9	102.2	93.3	92.4	78.7	91.6	94.9	104.6
87.5°	43.0	45.4	40.5	24.3	30.8	29.2	29.2	21.1	29.2	29.2	33.2
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: P838242

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5	3476.5
2.5°	3479.7	3493.5	3496.7	3495.9	3504.8	3553.5	3537.3	3553.5
5°	3487.8	3518.6	3526.7	3538.1	3552.7	3607.8	3590.0	3609.5
7.5°	3492.7	3538.9	3556.7	3578.6	3602.2	3663.8	3649.2	3668.7
10°	3492.7	3552.7	3578.6	3615.1	3646.8	3718.1	3704.3	3727.0
12.5°	3478.1	3555.1	3591.6	3642.7	3683.2	3760.3	3754.6	3770.8
15°	3448.1	3543.0	3593.2	3658.9	3709.2	3795.2	3792.7	3812.2
17.5°	3407.5	3521.9	3582.7	3665.4	3728.7	3825.2	3830.8	3841.4
20°	3356.4	3482.1	3561.6	3663.0	3742.4	3848.7	3856.0	3870.6
22.5°	3289.1	3434.3	3530.0	3652.4	3744.1	3858.4	3871.4	3885.2
25°	3209.7	3376.7	3488.6	3632.2	3736.0	3857.6	3875.4	3887.6
27.5°	3118.8	3302.1	3435.9	3599.7	3713.3	3844.6	3866.5	3881.1
30°	3013.4	3222.6	3375.9	3557.6	3682.4	3820.3	3843.8	3858.4
32.5°	2904.8	3135.1	3304.5	3503.2	3637.8	3781.4	3801.6	3813.0
35°	2786.4	3028.8	3218.6	3433.5	3580.3	3718.9	3734.3	3746.5
37.5°	2657.4	2913.7	3120.5	3354.8	3499.2	3632.2	3645.9	3659.7
40°	2524.4	2792.8	3010.2	3258.3	3402.7	3525.9	3540.5	3550.3
42.5°	2390.6	2659.0	2892.6	3144.8	3288.3	3406.7	3415.6	3425.4
45°	2255.2	2520.4	2760.4	3019.1	3161.0	3272.1	3275.4	3283.5
47.5°	2117.3	2376.8	2615.3	2875.6	3015.9	3117.2	3120.5	3127.0
50°	1978.7	2233.3	2460.4	2720.7	2857.7	2964.8	2950.2	2956.7
52.5°	1842.4	2082.5	2314.4	2553.6	2689.0	2783.9	2788.0	2775.0
55°	1708.6	1934.9	2148.2	2378.5	2507.4	2581.2	2578.8	2583.6
57.5°	1573.2	1785.7	1981.1	2191.9	2317.6	2387.4	2402.0	2384.9
60°	1435.3	1634.8	1810.0	2000.6	2122.2	2180.6	2197.6	2181.4
62.5°	1298.3	1481.6	1640.5	1806.8	1919.5	1991.6	1990.0	1972.2
65°	1161.3	1327.5	1469.4	1610.5	1708.6	1780.8	1777.6	1761.3
67.5°	1034.7	1171.8	1299.1	1413.5	1498.6	1548.1	1565.1	1545.6
70°	895.3	1013.7	1125.6	1217.2	1287.8	1332.4	1348.6	1331.5
72.5°	755.8	856.3	935.0	1023.4	1077.7	1115.0	1132.1	1115.8
75°	617.9	700.6	764.7	833.6	871.8	903.4	922.8	906.6
77.5°	484.1	548.2	599.3	649.6	693.3	700.6	717.7	707.1
80°	356.8	403.0	440.3	473.6	505.2	508.5	522.2	515.8
82.5°	237.6	268.4	278.1	313.0	333.3	330.0	343.8	339.0
85°	125.7	144.3	161.4	171.9	183.3	172.7	184.9	180.0
87.5°	42.2	44.6	38.9	55.1	60.8	51.9	59.2	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)