

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: P837764

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3LO-50-120-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: P837764
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-LD4-3LO-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

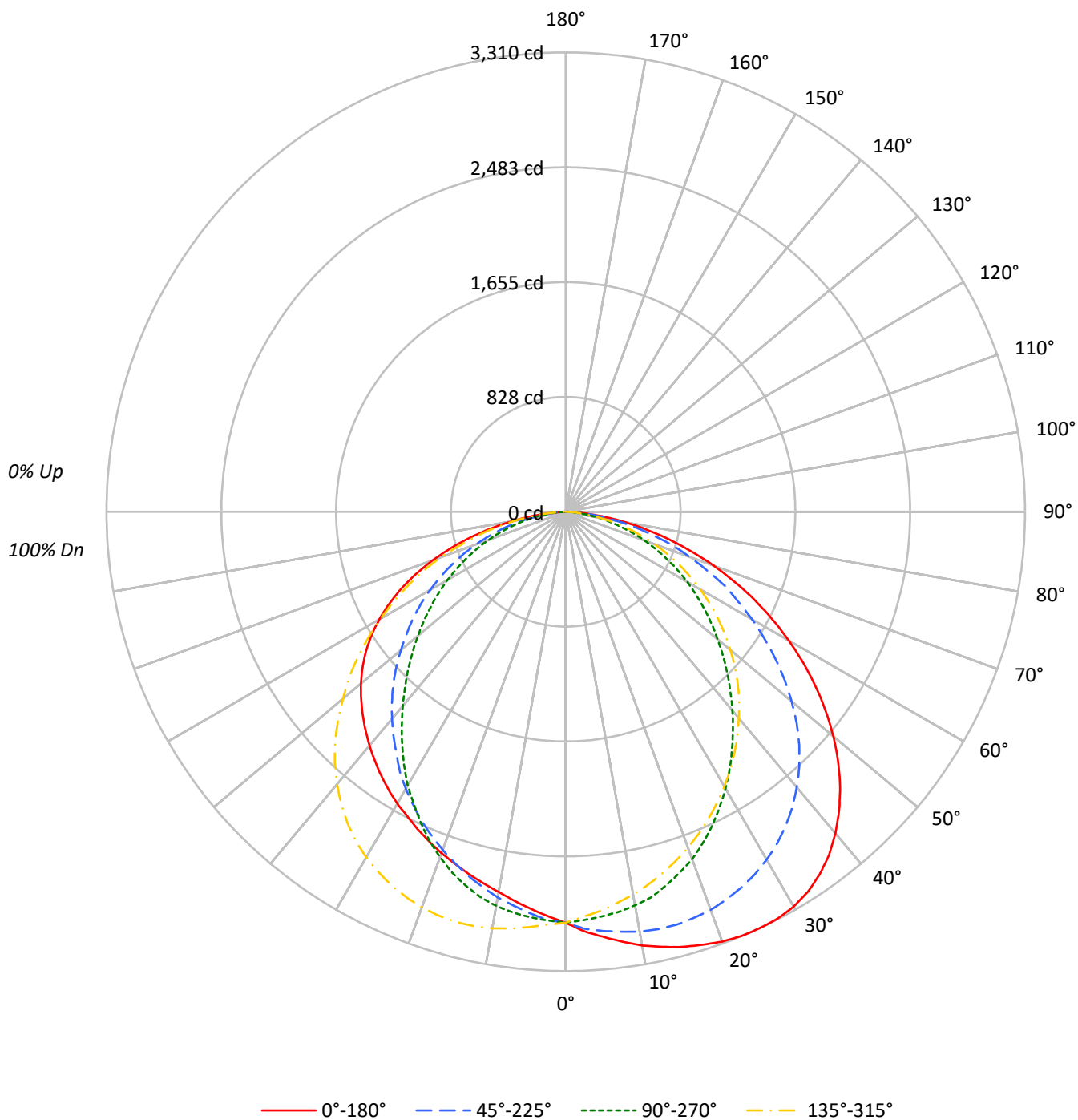
Lumens per Lamp: N/A
Luminaire Lumens: 8685.1 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	7966	7966	7966	7966
5°	8302	7909	7760	7922
10°	8672	7868	7602	7879
15°	9044	7768	7528	7770
20°	9438	7627	7495	7584
25°	9829	7414	7494	7338
30°	10209	7156	7544	7077
35°	10480	6862	7620	6753
40°	10620	6567	7726	6418
45°	10640	6267	7876	6110
50°	10540	5981	8068	5822
55°	10321	5715	8248	5556
60°	9997	5437	8358	5296
65°	9550	5118	8315	4999
70°	8921	4743	8019	4656
75°	8027	4229	7359	4207
80°	6806	3543	6185	3595
85°	4733	2347	3924	2408

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.1	3.2
10°-20°	813.9	9.4
20°-30°	1247.3	14.4
30°-40°	1516.6	17.5
40°-50°	1576.6	18.2
50°-60°	1424.2	16.4
60°-70°	1082.7	12.5
70°-80°	603.6	7.0
80°-90°	139.0	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°	2342.3	27.0
0°-40°	3858.9	44.4
0°-60°	6859.7	79.0
0°-90°	8685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8685.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2960	2960	2960	2960	2960	
5°	3074	2928	2873	2933	3074	296
15°	3246	2788	2702	2789	3246	920
25°	3310	2497	2524	2471	3310	1529
35°	3190	2089	2320	2056	3190	1993
45°	2796	1647	2070	1606	2796	2153
55°	2200	1218	1758	1184	2200	1964
65°	1500	804	1306	785	1500	1482
75°	772	407	708	405	772	820
85°	153	76	127	78	153	193
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°	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3
2.5°	3025.9	2981.7	2982.4	3021.1	2991.4	3005.9	2964.4	2980.3	2975.5	2978.9	2945.1
5°	3073.5	3025.9	3025.2	3058.3	3025.2	3031.4	2978.9	2989.3	2974.1	2964.4	2927.8
7.5°	3123.9	3076.3	3071.5	3100.5	3057.0	3052.1	2994.1	2994.1	2966.5	2942.3	2907.8
10°	3173.7	3124.6	3118.4	3140.5	3086.7	3070.8	3000.3	2989.3	2952.7	2916.8	2879.5
12.5°	3210.9	3161.2	3156.4	3170.2	3109.4	3080.4	3000.3	2978.9	2925.1	2874.7	2845.7
15°	3246.2	3195.1	3181.9	3188.9	3119.1	3080.4	2990.7	2957.5	2888.5	2822.2	2788.3
17.5°	3271.0	3222.0	3208.9	3208.2	3123.9	3068.7	2970.0	2924.4	2841.5	2761.4	2727.6
20°	3295.9	3246.9	3230.3	3217.9	3122.6	3052.8	2939.6	2878.1	2781.4	2691.7	2663.4
22.5°	3308.3	3257.9	3239.9	3221.3	3113.6	3023.8	2902.3	2824.3	2713.8	2606.7	2583.3
25°	3310.4	3258.6	3239.3	3212.3	3095.6	2989.3	2853.9	2759.3	2635.7	2517.0	2496.9
27.5°	3304.9	3248.2	3228.9	3196.4	3068.7	2947.2	2796.6	2685.5	2552.9	2421.7	2400.3
30°	3285.5	3228.2	3209.6	3167.4	3030.7	2895.4	2733.8	2603.3	2461.0	2321.5	2302.9
32.5°	3246.9	3190.9	3175.7	3133.6	2989.3	2835.3	2660.6	2514.9	2359.5	2226.3	2198.6
35°	3190.2	3134.3	3124.6	3080.4	2931.3	2763.5	2580.5	2418.2	2251.8	2115.8	2088.8
37.5°	3116.3	3069.4	3054.9	3011.4	2862.9	2682.0	2488.7	2313.3	2142.0	1995.6	1979.0
40°	3023.1	2978.9	2967.9	2929.2	2783.5	2591.5	2389.2	2204.9	2028.8	1892.7	1869.3
42.5°	2916.8	2875.4	2869.1	2829.1	2685.5	2491.4	2281.5	2092.3	1910.7	1779.5	1756.0
45°	2795.9	2755.9	2754.5	2716.5	2578.4	2380.2	2168.3	1978.4	1795.4	1659.3	1646.9
47.5°	2662.7	2626.8	2626.8	2591.5	2459.0	2258.0	2051.6	1859.6	1679.4	1559.2	1537.1
50°	2517.7	2483.8	2473.5	2456.2	2327.1	2124.7	1928.6	1743.6	1564.7	1450.1	1428.7
52.5°	2363.0	2334.0	2340.9	2309.1	2184.1	1986.0	1804.3	1613.1	1449.4	1345.1	1323.7
55°	2200.0	2158.6	2164.8	2153.1	2035.0	1843.0	1664.9	1505.3	1336.2	1238.1	1218.1
57.5°	2030.8	1977.0	1999.1	1992.2	1876.2	1696.6	1537.1	1383.1	1223.6	1133.2	1113.8
60°	1857.5	1805.7	1828.5	1822.3	1713.2	1550.2	1405.2	1262.3	1111.7	1029.6	1010.2
62.5°	1679.4	1631.7	1652.4	1647.6	1547.5	1400.4	1274.0	1142.8	999.2	925.3	907.4
65°	1499.8	1454.2	1472.9	1469.4	1376.9	1265.0	1139.4	1019.2	885.9	821.7	803.8
67.5°	1316.1	1274.0	1291.3	1291.3	1206.3	1099.3	1004.0	894.2	774.8	719.5	703.0
70°	1133.8	1094.5	1109.7	1108.3	1036.5	949.5	867.3	769.2	662.2	616.6	602.8
72.5°	950.2	915.6	929.4	928.1	868.0	812.1	730.6	645.6	552.4	515.8	503.4
75°	772.0	739.6	752.7	751.3	702.3	649.8	595.2	524.8	444.7	419.1	406.7
77.5°	602.1	569.0	580.0	580.0	544.1	506.2	462.7	408.1	351.5	323.9	314.9
80°	439.2	423.3	417.8	418.5	394.3	369.4	347.3	294.9	253.4	234.8	228.6
82.5°	288.6	275.5	270.0	271.4	257.6	242.4	228.6	192.0	164.3	153.3	149.8
85°	153.3	143.6	138.8	142.2	139.5	131.2	124.3	99.4	82.2	78.0	76.0
87.5°	48.3	42.1	38.7	51.1	43.5	38.7	37.3	29.7	22.8	22.8	22.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3
2.5°	2956.1	2956.1	2929.2	2923.0	2920.2	2923.7	2896.8	2891.9	2930.6	2917.5	2887.8
5°	2932.7	2931.3	2893.3	2886.4	2886.4	2882.3	2851.9	2845.0	2883.6	2872.6	2840.1
7.5°	2903.7	2899.5	2854.6	2849.8	2842.9	2840.1	2806.3	2801.5	2834.6	2827.7	2797.3
10°	2868.4	2864.3	2811.1	2807.7	2800.1	2794.6	2762.8	2759.3	2793.2	2782.1	2758.0
12.5°	2822.2	2814.6	2760.0	2756.6	2750.4	2748.3	2717.2	2715.8	2753.1	2742.1	2716.5
15°	2761.4	2755.2	2694.4	2695.8	2696.5	2696.5	2671.6	2670.3	2706.9	2702.0	2674.4
17.5°	2694.4	2686.1	2628.1	2632.3	2637.1	2642.6	2623.3	2626.8	2665.4	2659.2	2634.4
20°	2618.5	2610.2	2553.6	2565.3	2575.7	2586.7	2574.3	2583.9	2619.9	2617.1	2598.5
22.5°	2533.5	2525.3	2472.8	2490.7	2508.0	2528.7	2523.2	2534.2	2572.2	2571.5	2554.9
25°	2430.0	2432.0	2385.8	2407.9	2436.9	2465.9	2467.9	2485.9	2528.0	2523.9	2508.7
27.5°	2333.3	2336.1	2287.0	2324.3	2363.0	2400.3	2409.2	2434.1	2476.9	2473.5	2460.3
30°	2231.8	2235.2	2187.6	2238.7	2285.6	2331.2	2350.6	2384.4	2427.9	2427.9	2414.1
32.5°	2126.1	2132.3	2082.6	2151.0	2205.5	2258.7	2292.5	2327.8	2377.5	2376.1	2364.4
35°	2017.7	2024.6	1979.0	2066.1	2120.6	2185.5	2227.6	2274.6	2318.8	2319.5	2310.5
37.5°	1907.2	1915.5	1874.1	1969.4	2031.5	2108.2	2162.0	2209.0	2258.0	2260.8	2252.5
40°	1797.4	1806.4	1770.5	1862.3	1941.1	2026.7	2088.8	2144.1	2197.9	2199.3	2193.8
42.5°	1687.6	1697.3	1670.4	1760.2	1849.2	1941.1	2014.3	2077.1	2132.3	2135.8	2129.6
45°	1580.6	1588.9	1569.6	1667.6	1753.2	1853.4	1937.6	2008.7	2064.7	2069.5	2067.4
47.5°	1474.3	1481.9	1464.6	1554.4	1653.1	1759.5	1856.8	1935.5	1994.9	2000.5	1999.1
50°	1370.0	1376.2	1357.6	1451.5	1549.5	1662.8	1764.3	1855.4	1921.7	1927.3	1926.6
52.5°	1266.4	1272.6	1256.8	1355.5	1444.6	1564.0	1674.5	1773.3	1838.9	1847.2	1848.5
55°	1166.3	1169.1	1156.6	1251.2	1337.5	1462.5	1589.6	1685.6	1751.2	1758.1	1762.2
57.5°	1066.2	1066.9	1056.5	1147.0	1229.8	1357.6	1490.8	1591.7	1653.8	1660.7	1666.9
60°	966.7	966.0	954.3	1042.0	1121.4	1247.8	1386.6	1486.7	1546.8	1553.0	1561.3
62.5°	868.0	865.9	855.6	936.4	1010.9	1135.9	1275.4	1372.1	1429.4	1433.5	1444.6
65°	769.9	767.9	758.2	832.8	900.4	1019.9	1156.6	1248.5	1300.3	1305.8	1303.7
67.5°	673.3	669.1	661.5	728.5	790.0	900.4	1031.6	1119.3	1162.2	1167.0	1180.1
70°	576.6	571.8	554.5	625.6	679.5	778.2	900.4	978.5	1014.4	1019.2	1017.1
72.5°	481.3	476.5	457.8	523.4	569.0	655.3	764.4	829.3	860.4	864.5	864.5
75°	388.8	386.0	374.3	424.0	462.0	532.4	624.9	678.8	703.0	707.8	706.4
77.5°	299.7	297.6	285.9	328.7	358.4	410.9	485.4	527.6	545.5	551.0	562.8
80°	214.8	214.1	195.4	237.5	250.7	294.9	349.4	381.9	391.5	399.1	407.4
82.5°	137.4	138.1	119.5	155.4	160.9	189.2	223.0	243.1	250.0	256.2	262.4
85°	67.0	69.7	59.4	82.2	82.9	97.4	111.9	119.5	122.2	127.1	132.6
87.5°	17.3	20.0	11.0	23.5	20.7	26.9	31.1	33.1	32.5	35.9	38.0
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°	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3
2.5°	2897.4	2919.5	2908.5	2944.4	2958.2	2936.1	2974.8	2975.5	2947.9	2980.3	2998.3
5°	2852.6	2875.4	2868.4	2905.7	2923.0	2903.7	2950.6	2959.6	2932.7	2969.3	2998.3
7.5°	2807.0	2833.9	2824.9	2862.9	2883.6	2868.4	2918.9	2933.4	2912.6	2952.7	2991.4
10°	2767.6	2790.4	2780.7	2820.8	2838.8	2826.3	2876.0	2903.0	2883.6	2932.7	2978.9
12.5°	2729.0	2747.6	2736.6	2769.7	2787.0	2771.1	2831.8	2856.7	2842.9	2894.0	2953.4
15°	2679.2	2700.0	2684.8	2714.5	2727.6	2713.8	2763.5	2806.3	2789.0	2845.0	2910.6
17.5°	2641.3	2653.0	2632.3	2655.8	2663.4	2644.7	2695.1	2737.2	2724.8	2785.6	2861.5
20°	2599.1	2608.8	2579.8	2592.9	2592.2	2568.8	2615.0	2656.5	2648.2	2715.1	2801.5
22.5°	2552.2	2557.0	2523.2	2525.9	2524.6	2485.9	2527.3	2569.4	2566.0	2633.7	2730.3
25°	2502.5	2503.2	2459.7	2458.3	2443.1	2397.5	2434.1	2481.8	2471.4	2544.6	2646.1
27.5°	2453.4	2446.5	2394.1	2381.6	2357.5	2302.9	2335.4	2378.2	2372.0	2443.8	2556.3
30°	2401.0	2392.0	2327.8	2305.0	2269.8	2206.9	2233.9	2273.9	2277.4	2340.2	2458.3
32.5°	2351.2	2328.5	2257.3	2224.2	2180.0	2106.8	2121.3	2162.0	2167.6	2231.1	2352.6
35°	2287.0	2271.8	2184.1	2127.5	2084.0	2003.9	2019.1	2047.4	2055.7	2117.8	2241.4
37.5°	2226.3	2202.1	2108.9	2039.8	1983.9	1899.6	1903.8	1932.8	1941.1	2003.9	2126.1
40°	2163.4	2128.9	2028.8	1948.0	1883.8	1795.4	1790.5	1820.9	1827.1	1888.6	1999.1
42.5°	2096.4	2055.0	1942.5	1854.1	1780.2	1690.4	1680.7	1707.0	1713.9	1774.0	1882.4
45°	2028.8	1979.0	1854.1	1757.4	1676.6	1584.8	1575.1	1595.1	1605.5	1662.1	1766.4
47.5°	1957.0	1898.9	1762.9	1655.2	1571.6	1479.8	1468.1	1488.1	1496.4	1552.3	1651.0
50°	1881.7	1811.3	1669.0	1550.2	1467.4	1376.9	1359.6	1383.1	1390.7	1443.2	1539.9
52.5°	1798.8	1720.8	1568.9	1444.6	1361.7	1275.4	1254.7	1277.5	1286.5	1337.5	1426.6
55°	1711.1	1626.9	1468.1	1347.2	1257.4	1173.2	1155.9	1164.9	1184.3	1232.6	1315.5
57.5°	1612.4	1528.8	1361.7	1238.8	1152.5	1071.7	1057.2	1065.5	1083.4	1130.4	1205.0
60°	1507.4	1419.0	1253.3	1130.4	1046.8	970.2	957.1	964.7	984.0	1026.8	1095.9
62.5°	1403.8	1304.4	1141.4	1019.2	943.3	872.1	868.7	865.9	883.9	925.3	986.1
65°	1278.2	1182.9	1024.7	908.7	839.7	775.5	761.7	767.9	785.1	823.1	886.6
67.5°	1143.5	1057.2	905.3	798.2	736.8	679.5	667.7	670.5	688.5	721.6	776.8
70°	1000.6	924.6	783.1	687.1	635.3	581.4	573.8	574.5	591.8	620.8	669.1
72.5°	850.7	782.4	659.5	577.3	534.5	495.8	488.9	480.6	496.5	521.3	562.8
75°	698.1	638.0	536.5	469.6	435.7	403.3	397.1	388.8	404.6	426.1	458.5
77.5°	544.1	495.8	417.1	365.3	339.0	314.9	309.4	300.4	316.3	332.1	357.7
80°	393.6	358.4	311.4	256.9	247.9	232.0	226.5	216.8	232.0	242.4	261.7
82.5°	254.1	230.6	203.7	165.7	164.3	152.6	149.8	138.8	152.6	158.8	173.3
85°	128.4	117.4	110.5	84.2	87.0	79.4	78.7	67.0	78.0	80.8	89.1
87.5°	36.6	38.7	34.5	20.7	26.2	24.9	24.9	18.0	24.9	24.9	28.3
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: P837764

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3	2960.3
2.5°	2963.0	2974.8	2977.5	2976.9	2984.5	3025.9	3012.1	3025.9
5°	2970.0	2996.2	3003.1	3012.8	3025.2	3072.2	3057.0	3073.5
7.5°	2974.1	3013.5	3028.6	3047.3	3067.3	3119.8	3107.4	3123.9
10°	2974.1	3025.2	3047.3	3078.4	3105.3	3166.1	3154.3	3173.7
12.5°	2961.7	3027.3	3058.3	3101.8	3136.4	3202.0	3197.1	3210.9
15°	2936.1	3016.9	3059.7	3115.7	3158.5	3231.7	3229.6	3246.2
17.5°	2901.6	2999.0	3050.7	3121.2	3175.0	3257.2	3262.0	3271.0
20°	2858.1	2965.1	3032.8	3119.1	3186.8	3277.2	3283.5	3295.9
22.5°	2800.8	2924.4	3005.9	3110.1	3188.2	3285.5	3296.6	3308.3
25°	2733.1	2875.4	2970.6	3092.9	3181.3	3284.8	3300.0	3310.4
27.5°	2655.8	2811.8	2925.8	3065.2	3161.9	3273.8	3292.4	3304.9
30°	2566.0	2744.2	2874.7	3029.3	3135.7	3253.1	3273.1	3285.5
32.5°	2473.5	2669.6	2813.9	2983.1	3097.7	3219.9	3237.2	3246.9
35°	2372.6	2579.1	2740.7	2923.7	3048.7	3166.8	3179.9	3190.2
37.5°	2262.9	2481.1	2657.1	2856.7	2979.6	3092.9	3104.6	3116.3
40°	2149.6	2378.2	2563.2	2774.5	2897.4	3002.4	3014.8	3023.1
42.5°	2035.7	2264.2	2463.1	2677.9	2800.1	2900.9	2908.5	2916.8
45°	1920.4	2146.2	2350.6	2570.8	2691.7	2786.3	2789.0	2795.9
47.5°	1803.0	2023.9	2226.9	2448.6	2568.1	2654.4	2657.1	2662.7
50°	1684.9	1901.7	2095.1	2316.7	2433.4	2524.6	2512.1	2517.7
52.5°	1568.9	1773.3	1970.8	2174.5	2289.8	2370.6	2374.0	2363.0
55°	1454.9	1647.6	1829.2	2025.3	2135.1	2197.9	2195.9	2200.0
57.5°	1339.6	1520.5	1687.0	1866.5	1973.5	2032.9	2045.3	2030.8
60°	1222.2	1392.1	1541.3	1703.5	1807.1	1856.8	1871.3	1857.5
62.5°	1105.5	1261.6	1396.9	1538.5	1634.5	1695.9	1694.6	1679.4
65°	988.8	1130.4	1251.2	1371.4	1454.9	1516.4	1513.6	1499.8
67.5°	881.1	997.8	1106.2	1203.6	1276.1	1318.2	1332.7	1316.1
70°	762.3	863.2	958.5	1036.5	1096.6	1134.5	1148.3	1133.8
72.5°	643.6	729.2	796.2	871.4	917.7	949.5	964.0	950.2
75°	526.2	596.6	651.2	709.9	742.3	769.2	785.8	772.0
77.5°	412.2	466.8	510.3	553.1	590.4	596.6	611.1	602.1
80°	303.8	343.2	375.0	403.3	430.2	433.0	444.7	439.2
82.5°	202.3	228.6	236.9	266.5	283.8	281.0	292.8	288.6
85°	107.0	122.9	137.4	146.4	156.1	147.1	157.4	153.3
87.5°	35.9	38.0	33.1	47.0	51.8	44.2	50.4	48.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)