

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: P838061

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3LO-27-120-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: P838061
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-LD4-3LO-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

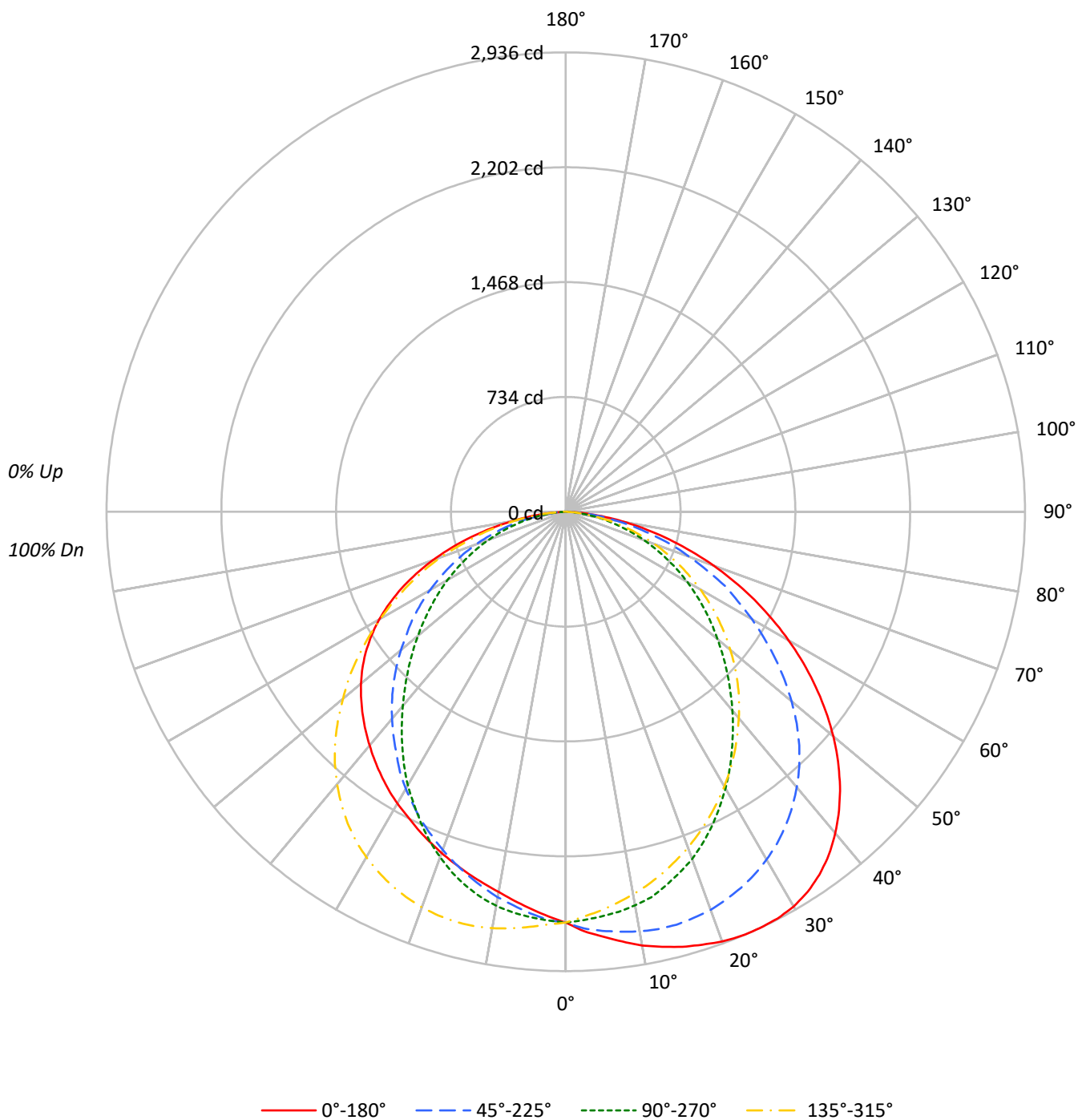
Lumens per Lamp: N/A
Luminaire Lumens: 7702.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	3533	3533	3533	3533
5°	3682	3507	3441	3513
10°	3846	3489	3371	3494
15°	4010	3445	3338	3446
20°	4186	3382	3323	3363
25°	4359	3288	3323	3254
30°	4527	3173	3345	3138
35°	4648	3043	3379	2995
40°	4709	2912	3426	2846
45°	4719	2779	3493	2709
50°	4674	2652	3578	2582
55°	4577	2534	3658	2464
60°	4433	2411	3707	2348
65°	4235	2270	3687	2217
70°	3956	2103	3556	2065
75°	3559	1875	3263	1866
80°	3018	1571	2743	1595
85°	2100	1041	1740	1068

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	3.2
10°-20°	721.8	9.4
20°-30°	1106.3	14.4
30°-40°	1345.1	17.5
40°-50°	1398.3	18.2
50°-60°	1263.1	16.4
60°-70°	960.3	12.5
70°-80°	535.4	7.0
80°-90°	123.3	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°	2077.4	27.0
0°-40°	3422.5	44.4
0°-60°	6084.0	79.0
0°-90°	7702.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7702.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2626	2626	2626	2626	2626	
5°	2726	2597	2548	2601	2726	263
15°	2879	2473	2396	2474	2879	816
25°	2936	2215	2238	2192	2936	1356
35°	2830	1853	2057	1823	2830	1767
45°	2480	1461	1836	1424	2480	1909
55°	1951	1080	1559	1050	1951	1742
65°	1330	713	1158	696	1330	1314
75°	685	361	628	359	685	727
85°	136	67	113	69	136	171
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°	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5
2.5°	2683.7	2644.5	2645.1	2679.4	2653.1	2665.9	2629.2	2643.3	2639.0	2642.1	2612.0
5°	2726.0	2683.7	2683.1	2712.5	2683.1	2688.6	2642.1	2651.2	2637.8	2629.2	2596.7
7.5°	2770.7	2728.4	2724.1	2749.8	2711.3	2707.0	2655.5	2655.5	2631.0	2609.6	2579.0
10°	2814.8	2771.3	2765.8	2785.4	2737.6	2723.5	2661.0	2651.2	2618.8	2586.9	2553.9
12.5°	2847.8	2803.7	2799.5	2811.7	2757.8	2732.1	2661.0	2642.1	2594.3	2549.6	2523.9
15°	2879.1	2833.7	2822.1	2828.2	2766.4	2732.1	2652.5	2623.1	2561.8	2503.0	2473.0
17.5°	2901.1	2857.6	2846.0	2845.4	2770.7	2721.7	2634.1	2593.7	2520.2	2449.1	2419.1
20°	2923.2	2879.7	2865.0	2854.0	2769.4	2707.6	2607.1	2552.6	2466.9	2387.3	2362.2
22.5°	2934.2	2889.5	2873.6	2857.0	2761.5	2681.9	2574.1	2504.9	2406.9	2312.0	2291.1
25°	2936.0	2890.1	2872.9	2849.1	2745.6	2651.2	2531.2	2447.3	2337.7	2232.3	2214.6
27.5°	2931.1	2880.9	2863.8	2835.0	2721.7	2613.9	2480.4	2381.8	2264.2	2147.8	2128.8
30°	2914.0	2863.1	2846.6	2809.3	2688.0	2568.0	2424.6	2308.9	2182.7	2059.0	2042.5
32.5°	2879.7	2830.1	2816.6	2779.2	2651.2	2514.7	2359.7	2230.5	2092.7	1974.5	1950.0
35°	2829.5	2779.9	2771.3	2732.1	2599.8	2451.0	2288.7	2144.8	1997.2	1876.5	1852.6
37.5°	2763.9	2722.3	2709.4	2670.8	2539.2	2378.7	2207.2	2051.7	1899.8	1769.9	1755.2
40°	2681.3	2642.1	2632.3	2598.0	2468.7	2298.5	2119.0	1955.5	1799.3	1678.7	1657.9
42.5°	2586.9	2550.2	2544.7	2509.2	2381.8	2209.7	2023.5	1855.7	1694.6	1578.3	1557.4
45°	2479.8	2444.2	2443.0	2409.3	2286.8	2111.1	1923.1	1754.6	1592.3	1471.7	1460.7
47.5°	2361.6	2329.7	2329.7	2298.5	2180.9	2002.7	1819.6	1649.3	1489.4	1382.9	1363.3
50°	2232.9	2202.9	2193.8	2178.4	2063.9	1884.5	1710.5	1546.4	1387.8	1286.1	1267.1
52.5°	2095.8	2070.0	2076.2	2048.0	1937.1	1761.4	1600.3	1430.7	1285.5	1193.0	1174.0
55°	1951.2	1914.5	1920.0	1909.6	1804.9	1634.6	1476.6	1335.1	1185.1	1098.1	1080.3
57.5°	1801.2	1753.4	1773.0	1766.9	1664.0	1504.8	1363.3	1226.7	1085.2	1005.0	987.9
60°	1647.5	1601.5	1621.7	1616.2	1519.5	1374.9	1246.3	1119.5	986.0	913.1	896.0
62.5°	1489.4	1447.2	1465.6	1461.3	1372.5	1242.0	1129.9	1013.6	886.2	820.7	804.7
65°	1330.2	1289.8	1306.3	1303.3	1221.2	1122.0	1010.5	904.0	785.8	728.8	712.9
67.5°	1167.3	1129.9	1145.3	1145.3	1069.9	975.0	890.5	793.1	687.2	638.2	623.5
70°	1005.6	970.7	984.2	983.0	919.3	842.1	769.2	682.3	587.3	546.9	534.7
72.5°	842.7	812.1	824.3	823.1	769.8	720.2	648.0	572.6	490.0	457.5	446.5
75°	684.7	655.9	667.6	666.3	622.8	576.3	527.9	465.5	394.4	371.7	360.7
77.5°	534.0	504.6	514.4	514.4	482.6	448.9	410.3	362.0	311.7	287.2	279.3
80°	389.5	375.4	370.5	371.1	349.7	327.7	308.1	261.5	224.8	208.2	202.7
82.5°	256.0	244.4	239.5	240.7	228.4	215.0	202.7	170.3	145.8	136.0	132.9
85°	136.0	127.4	123.1	126.2	123.7	116.4	110.2	88.2	72.9	69.2	67.4
87.5°	42.9	37.4	34.3	45.3	38.6	34.3	33.1	26.3	20.2	20.2	19.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5
2.5°	2621.8	2621.8	2598.0	2592.4	2590.0	2593.1	2569.2	2564.9	2599.2	2587.5	2561.2
5°	2601.0	2599.8	2566.1	2560.0	2560.0	2556.3	2529.4	2523.2	2557.5	2547.7	2519.0
7.5°	2575.3	2571.6	2531.8	2527.5	2521.4	2519.0	2488.9	2484.7	2514.1	2507.9	2481.0
10°	2544.1	2540.4	2493.2	2490.2	2483.4	2478.5	2450.4	2447.3	2477.3	2467.5	2446.1
12.5°	2503.0	2496.3	2447.9	2444.9	2439.3	2437.5	2409.9	2408.7	2441.8	2432.0	2409.3
15°	2449.1	2443.6	2389.7	2391.0	2391.6	2391.6	2369.5	2368.3	2400.8	2396.5	2372.0
17.5°	2389.7	2382.4	2330.9	2334.6	2338.9	2343.8	2326.7	2329.7	2364.0	2358.5	2336.4
20°	2322.4	2315.0	2264.8	2275.2	2284.4	2294.2	2283.2	2291.7	2323.6	2321.1	2304.6
22.5°	2247.0	2239.7	2193.1	2209.1	2224.4	2242.7	2237.8	2247.6	2281.3	2280.7	2266.0
25°	2155.2	2157.0	2116.0	2135.6	2161.3	2187.0	2188.9	2204.8	2242.1	2238.5	2225.0
27.5°	2069.4	2071.9	2028.4	2061.5	2095.8	2128.8	2136.8	2158.8	2196.8	2193.8	2182.1
30°	1979.4	1982.5	1940.2	1985.5	2027.2	2067.6	2084.7	2114.7	2153.3	2153.3	2141.1
32.5°	1885.7	1891.2	1847.1	1907.7	1956.1	2003.3	2033.3	2064.5	2108.6	2107.4	2097.0
35°	1789.5	1795.7	1755.2	1832.4	1880.8	1938.4	1975.7	2017.4	2056.6	2057.2	2049.2
37.5°	1691.6	1698.9	1662.2	1746.7	1801.8	1869.8	1917.5	1959.2	2002.7	2005.1	1997.8
40°	1594.2	1602.1	1570.3	1651.7	1721.6	1797.5	1852.6	1901.6	1949.4	1950.6	1945.7
42.5°	1496.8	1505.4	1481.5	1561.1	1640.1	1721.6	1786.5	1842.2	1891.2	1894.3	1888.8
45°	1401.9	1409.2	1392.1	1479.0	1555.0	1643.8	1718.5	1781.6	1831.2	1835.5	1833.6
47.5°	1307.6	1314.3	1299.0	1378.6	1466.2	1560.5	1646.8	1716.7	1769.3	1774.2	1773.0
50°	1215.1	1220.6	1204.1	1287.3	1374.3	1474.7	1564.8	1645.6	1704.4	1709.3	1708.7
52.5°	1123.2	1128.7	1114.6	1202.2	1281.2	1387.2	1485.2	1572.7	1630.9	1638.3	1639.5
55°	1034.4	1036.9	1025.8	1109.7	1186.3	1297.1	1409.8	1495.0	1553.1	1559.3	1562.9
57.5°	945.6	946.2	937.0	1017.3	1090.8	1204.1	1322.3	1411.7	1466.8	1472.9	1478.4
60°	857.4	856.8	846.4	924.2	994.6	1106.7	1229.8	1318.6	1371.9	1377.4	1384.7
62.5°	769.8	768.0	758.8	830.5	896.6	1007.5	1131.2	1216.9	1267.7	1271.4	1281.2
65°	682.9	681.0	672.5	738.6	798.6	904.6	1025.8	1107.3	1153.2	1158.1	1156.3
67.5°	597.1	593.5	586.7	646.1	700.6	798.6	915.0	992.8	1030.7	1035.0	1046.7
70°	511.4	507.1	491.8	554.9	602.6	690.2	798.6	867.8	899.7	904.0	902.1
72.5°	426.9	422.6	406.0	464.2	504.6	581.2	678.0	735.5	763.1	766.8	766.8
75°	344.8	342.4	331.9	376.0	409.7	472.2	554.3	602.0	623.5	627.7	626.5
77.5°	265.8	264.0	253.5	291.5	317.9	364.4	430.5	467.9	483.8	488.7	499.1
80°	190.5	189.9	173.3	210.7	222.3	261.5	309.9	338.7	347.3	354.0	361.3
82.5°	121.9	122.5	106.0	137.8	142.7	167.8	197.8	215.6	221.7	227.2	232.7
85°	59.4	61.9	52.7	72.9	73.5	86.4	99.2	106.0	108.4	112.7	117.6
87.5°	15.3	17.8	9.8	20.8	18.4	23.9	27.6	29.4	28.8	31.8	33.7
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°	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5
2.5°	2569.8	2589.4	2579.6	2611.4	2623.7	2604.1	2638.4	2639.0	2614.5	2643.3	2659.2
5°	2530.0	2550.2	2544.1	2577.1	2592.4	2575.3	2616.9	2624.9	2601.0	2633.5	2659.2
7.5°	2489.6	2513.4	2505.5	2539.2	2557.5	2544.1	2588.8	2601.6	2583.3	2618.8	2653.1
10°	2454.6	2474.9	2466.3	2501.8	2517.7	2506.7	2550.8	2574.7	2557.5	2601.0	2642.1
12.5°	2420.4	2436.9	2427.1	2456.5	2471.8	2457.7	2511.6	2533.7	2521.4	2566.7	2619.4
15°	2376.3	2394.6	2381.2	2407.5	2419.1	2406.9	2451.0	2488.9	2473.6	2523.2	2581.4
17.5°	2342.6	2353.0	2334.6	2355.4	2362.2	2345.6	2390.3	2427.7	2416.7	2470.6	2537.9
20°	2305.2	2313.8	2288.1	2299.7	2299.1	2278.3	2319.3	2356.0	2348.7	2408.1	2484.7
22.5°	2263.6	2267.9	2237.8	2240.3	2239.1	2204.8	2241.5	2278.9	2275.8	2335.8	2421.6
25°	2219.5	2220.1	2181.5	2180.3	2166.8	2126.4	2158.8	2201.1	2191.9	2256.8	2346.9
27.5°	2176.0	2169.9	2123.3	2112.3	2090.9	2042.5	2071.3	2109.2	2103.7	2167.4	2267.2
30°	2129.4	2121.5	2064.5	2044.3	2013.1	1957.4	1981.2	2016.8	2019.8	2075.6	2180.3
32.5°	2085.3	2065.1	2002.1	1972.7	1933.5	1868.5	1881.4	1917.5	1922.4	1978.8	2086.6
35°	2028.4	2014.9	1937.1	1886.9	1848.3	1777.3	1790.8	1815.9	1823.2	1878.3	1988.0
37.5°	1974.5	1953.1	1870.4	1809.1	1759.5	1684.8	1688.5	1714.2	1721.6	1777.3	1885.7
40°	1918.8	1888.1	1799.3	1727.7	1670.7	1592.3	1588.1	1615.0	1620.5	1675.0	1773.0
42.5°	1859.4	1822.6	1722.8	1644.4	1578.9	1499.2	1490.7	1513.9	1520.1	1573.4	1669.5
45°	1799.3	1755.2	1644.4	1558.7	1487.0	1405.5	1397.0	1414.7	1423.9	1474.1	1566.6
47.5°	1735.6	1684.2	1563.6	1468.0	1393.9	1312.5	1302.0	1319.8	1327.2	1376.8	1464.3
50°	1668.9	1606.4	1480.3	1374.9	1301.4	1221.2	1205.9	1226.7	1233.4	1280.0	1365.7
52.5°	1595.4	1526.2	1391.5	1281.2	1207.7	1131.2	1112.8	1133.0	1141.0	1186.3	1265.3
55°	1517.6	1442.9	1302.0	1194.9	1115.2	1040.5	1025.2	1033.2	1050.3	1093.2	1166.7
57.5°	1430.0	1355.9	1207.7	1098.7	1022.2	950.5	937.6	945.0	960.9	1002.6	1068.7
60°	1337.0	1258.6	1111.6	1002.6	928.5	860.5	848.8	855.6	872.7	910.7	971.9
62.5°	1245.1	1156.9	1012.4	904.0	836.6	773.5	770.4	768.0	783.9	820.7	874.6
65°	1133.6	1049.1	908.9	806.0	744.7	687.8	675.5	681.0	696.3	730.0	786.4
67.5°	1014.2	937.6	802.9	708.0	653.5	602.6	592.2	594.7	610.6	640.0	689.0
70°	887.4	820.1	694.5	609.4	563.4	515.7	508.9	509.5	524.9	550.6	593.5
72.5°	754.5	693.9	584.9	512.0	474.0	439.7	433.6	426.3	440.3	462.4	499.1
75°	619.2	565.9	475.9	416.5	386.4	357.7	352.2	344.8	358.9	377.9	406.7
77.5°	482.6	439.7	369.9	324.0	300.7	279.3	274.4	266.4	280.5	294.6	317.2
80°	349.1	317.9	276.2	227.8	219.9	205.8	200.9	192.3	205.8	215.0	232.1
82.5°	225.4	204.6	180.7	147.0	145.8	135.3	132.9	123.1	135.3	140.9	153.7
85°	113.9	104.1	98.0	74.7	77.2	70.4	69.8	59.4	69.2	71.7	79.0
87.5°	32.5	34.3	30.6	18.4	23.3	22.0	22.0	15.9	22.0	22.0	25.1
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: P838061

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5	2625.5
2.5°	2628.0	2638.4	2640.8	2640.2	2647.0	2683.7	2671.5	2683.7
5°	2634.1	2657.4	2663.5	2672.1	2683.1	2724.7	2711.3	2726.0
7.5°	2637.8	2672.7	2686.2	2702.7	2720.4	2767.0	2756.0	2770.7
10°	2637.8	2683.1	2702.7	2730.2	2754.1	2808.0	2797.6	2814.8
12.5°	2626.7	2684.9	2712.5	2751.1	2781.7	2839.9	2835.6	2847.8
15°	2604.1	2675.7	2713.7	2763.3	2801.3	2866.2	2864.4	2879.1
17.5°	2573.5	2659.8	2705.7	2768.2	2816.0	2888.9	2893.2	2901.1
20°	2534.9	2629.8	2689.8	2766.4	2826.4	2906.6	2912.1	2923.2
22.5°	2484.0	2593.7	2665.9	2758.4	2827.6	2914.0	2923.8	2934.2
25°	2424.0	2550.2	2634.7	2743.1	2821.5	2913.4	2926.8	2936.0
27.5°	2355.4	2493.8	2594.9	2718.6	2804.4	2903.6	2920.1	2931.1
30°	2275.8	2433.8	2549.6	2686.8	2781.1	2885.2	2903.0	2914.0
32.5°	2193.8	2367.7	2495.7	2645.7	2747.4	2855.8	2871.1	2879.7
35°	2104.3	2287.5	2430.8	2593.1	2703.9	2808.6	2820.3	2829.5
37.5°	2007.0	2200.5	2356.7	2533.7	2642.7	2743.1	2753.5	2763.9
40°	1906.5	2109.2	2273.4	2460.8	2569.8	2662.9	2673.9	2681.3
42.5°	1805.5	2008.2	2184.6	2375.0	2483.4	2572.9	2579.6	2586.9
45°	1703.2	1903.5	2084.7	2280.1	2387.3	2471.2	2473.6	2479.8
47.5°	1599.1	1795.1	1975.1	2171.7	2277.7	2354.2	2356.7	2361.6
50°	1494.3	1686.7	1858.1	2054.7	2158.2	2239.1	2228.0	2232.9
52.5°	1391.5	1572.7	1747.9	1928.6	2030.8	2102.5	2105.6	2095.8
55°	1290.4	1461.3	1622.3	1796.3	1893.7	1949.4	1947.6	1951.2
57.5°	1188.1	1348.6	1496.2	1655.4	1750.3	1803.0	1814.0	1801.2
60°	1084.0	1234.7	1367.0	1510.9	1602.7	1646.8	1659.7	1647.5
62.5°	980.5	1118.9	1239.0	1364.5	1449.6	1504.1	1502.9	1489.4
65°	877.0	1002.6	1109.7	1216.3	1290.4	1344.9	1342.5	1330.2
67.5°	781.5	885.0	981.1	1067.5	1131.8	1169.1	1182.0	1167.3
70°	676.1	765.5	850.1	919.3	972.6	1006.2	1018.5	1005.6
72.5°	570.8	646.7	706.1	772.9	813.9	842.1	855.0	842.7
75°	466.7	529.1	577.5	629.6	658.4	682.3	697.0	684.7
77.5°	365.6	414.0	452.6	490.6	523.6	529.1	542.0	534.0
80°	269.5	304.4	332.6	357.7	381.5	384.0	394.4	389.5
82.5°	179.4	202.7	210.1	236.4	251.7	249.3	259.7	256.0
85°	94.9	109.0	121.9	129.8	138.4	130.4	139.6	136.0
87.5°	31.8	33.7	29.4	41.6	45.9	39.2	44.7	42.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)