

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: P837886

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-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: P837886
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

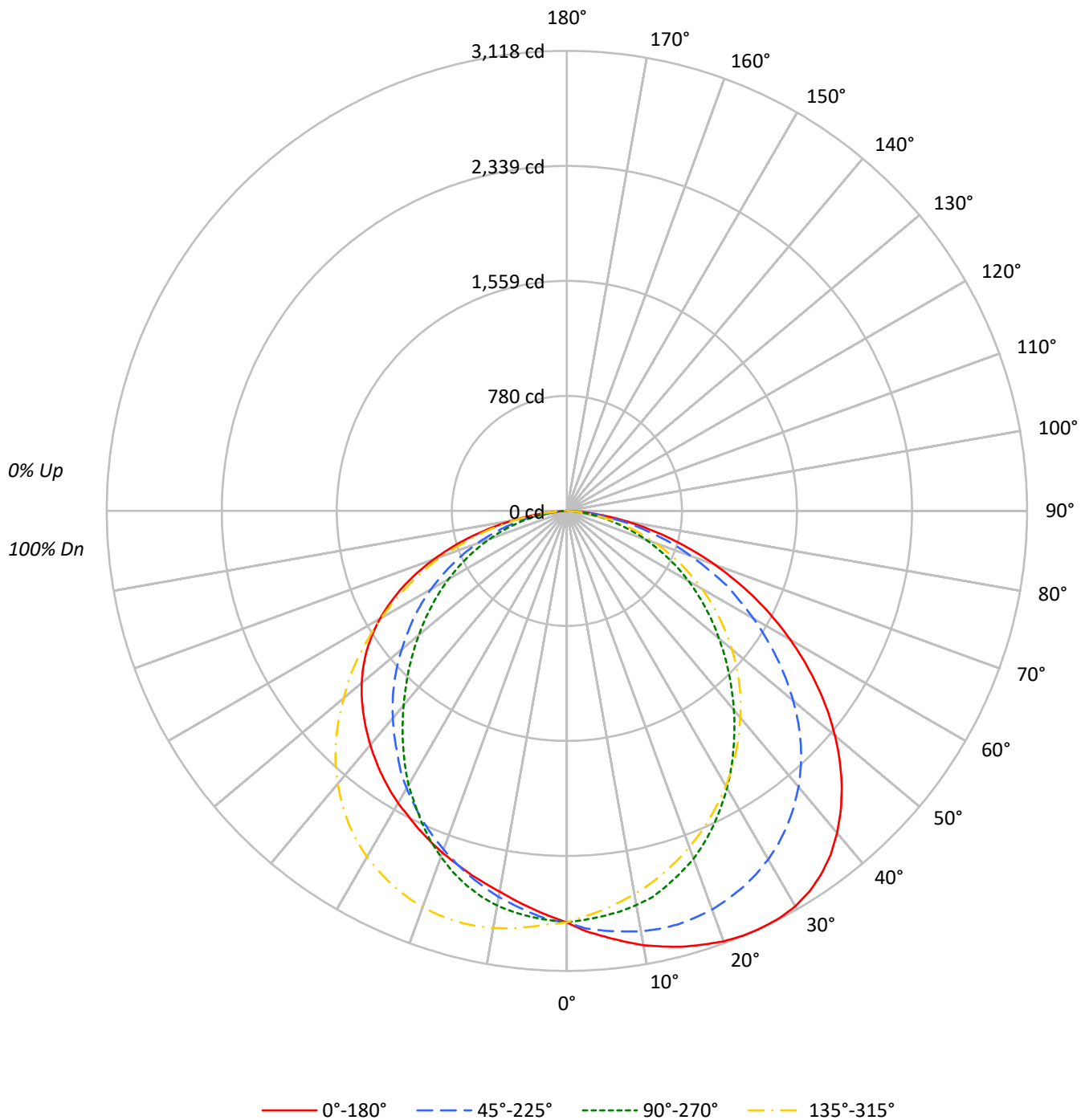
Lumens per Lamp: N/A
Luminaire Lumens: 8181.5 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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

TEST NUMBER: P837886

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837886

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD

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°	7504	7504	7504	7504
5°	7821	7450	7310	7462
10°	8169	7412	7161	7423
15°	8519	7318	7091	7319
20°	8891	7185	7060	7144
25°	9259	6984	7059	6913
30°	9617	6741	7107	6666
35°	9873	6464	7178	6362
40°	10004	6186	7278	6046
45°	10023	5904	7419	5756
50°	9929	5635	7600	5485
55°	9723	5384	7770	5234
60°	9417	5122	7874	4989
65°	8996	4821	7833	4709
70°	8404	4468	7554	4386
75°	7561	3983	6933	3963
80°	6411	3336	5827	3388
85°	4458	2211	3696	2269

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837886

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	3.2
10°-20°	766.7	9.4
20°-30°	1175.0	14.4
30°-40°	1428.7	17.5
40°-50°	1485.2	18.2
50°-60°	1341.6	16.4
60°-70°	1020.0	12.5
70°-80°	568.6	7.0
80°-90°	130.9	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°	2206.4	27.0
0°-40°	3635.2	44.4
0°-60°	6462.0	79.0
0°-90°	8181.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8181.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2789	2789	2789	2789	2789	
5°	2895	2758	2706	2763	2895	279
15°	3058	2627	2545	2627	3058	867
25°	3118	2352	2378	2328	3118	1440
35°	3005	1968	2185	1936	3005	1877
45°	2634	1551	1950	1512	2634	2028
55°	2072	1148	1656	1116	2072	1850
65°	1413	757	1230	740	1413	1396
75°	727	383	667	381	727	772
85°	144	72	120	74	144	182
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837886

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7
2.5°	2850.4	2808.8	2809.5	2845.9	2817.9	2831.6	2792.6	2807.5	2803.0	2806.2	2774.3
5°	2895.3	2850.4	2849.8	2881.0	2849.8	2855.7	2806.2	2816.0	2801.7	2792.6	2758.1
7.5°	2942.8	2897.9	2893.4	2920.7	2879.7	2875.2	2820.5	2820.5	2794.5	2771.7	2739.2
10°	2989.7	2943.5	2937.6	2958.4	2907.7	2892.7	2826.4	2816.0	2781.5	2747.7	2712.5
12.5°	3024.8	2977.9	2973.4	2986.4	2929.2	2901.8	2826.4	2806.2	2755.5	2708.0	2680.7
15°	3058.0	3009.8	2997.5	3004.0	2938.3	2901.8	2817.3	2786.1	2721.0	2658.6	2626.7
17.5°	3081.4	3035.2	3022.8	3022.2	2942.8	2890.8	2797.8	2754.8	2676.8	2601.3	2569.4
20°	3104.8	3058.6	3043.0	3031.3	2941.5	2875.8	2769.1	2711.2	2620.2	2535.6	2508.9
22.5°	3116.5	3069.0	3052.1	3034.5	2933.1	2848.5	2734.0	2660.5	2556.4	2455.6	2433.5
25°	3118.5	3069.7	3051.5	3026.1	2916.1	2816.0	2688.5	2599.4	2482.9	2371.0	2352.2
27.5°	3113.2	3059.9	3041.7	3011.1	2890.8	2776.3	2634.5	2529.8	2404.9	2281.3	2261.1
30°	3095.0	3041.0	3023.5	2983.8	2855.0	2727.5	2575.3	2452.3	2318.3	2186.9	2169.4
32.5°	3058.6	3005.9	2991.6	2951.9	2816.0	2670.9	2506.3	2369.1	2222.7	2097.2	2071.2
35°	3005.3	2952.6	2943.5	2901.8	2761.3	2603.3	2430.9	2278.0	2121.2	1993.1	1967.7
37.5°	2935.7	2891.4	2877.8	2836.8	2696.9	2526.5	2344.4	2179.1	2017.8	1879.9	1864.3
40°	2847.8	2806.2	2795.8	2759.4	2622.1	2441.3	2250.7	2077.0	1911.1	1783.0	1760.9
42.5°	2747.7	2708.6	2702.8	2665.1	2529.8	2347.0	2149.2	1971.0	1799.9	1676.3	1654.2
45°	2633.8	2596.1	2594.8	2559.0	2428.9	2242.2	2042.5	1863.7	1691.3	1563.1	1551.4
47.5°	2508.3	2474.5	2474.5	2441.3	2316.4	2127.1	1932.6	1751.8	1582.0	1468.8	1448.0
50°	2371.7	2339.8	2330.1	2313.8	2192.2	2001.6	1816.8	1642.5	1474.0	1366.0	1345.9
52.5°	2226.0	2198.7	2205.2	2175.2	2057.5	1870.8	1699.7	1519.5	1365.4	1267.2	1247.0
55°	2072.5	2033.4	2039.3	2028.2	1917.0	1736.2	1568.3	1418.1	1258.7	1166.3	1147.5
57.5°	1913.1	1862.4	1883.2	1876.7	1767.4	1598.3	1448.0	1302.9	1152.7	1067.5	1049.2
60°	1749.8	1701.0	1722.5	1716.6	1613.9	1460.4	1323.7	1189.1	1047.3	969.9	951.7
62.5°	1582.0	1537.1	1556.6	1552.1	1457.7	1319.2	1200.2	1076.6	941.3	871.7	854.7
65°	1412.9	1369.9	1387.5	1384.2	1297.1	1191.7	1073.3	960.1	834.6	774.1	757.2
67.5°	1239.8	1200.2	1216.4	1216.4	1136.4	1035.6	945.8	842.4	729.9	677.8	662.2
70°	1068.1	1031.0	1045.3	1044.0	976.4	894.4	817.0	724.6	623.8	580.9	567.9
72.5°	895.1	862.6	875.6	874.3	817.7	765.0	688.2	608.2	520.4	485.9	474.2
75°	727.2	696.7	709.0	707.7	661.5	612.1	560.7	494.4	418.9	394.8	383.1
77.5°	567.2	536.0	546.4	546.4	512.6	476.8	435.8	384.4	331.1	305.1	296.6
80°	413.7	398.8	393.5	394.2	371.4	348.0	327.2	277.8	238.7	221.2	215.3
82.5°	271.9	259.5	254.3	255.6	242.6	228.3	215.3	180.8	154.8	144.4	141.2
85°	144.4	135.3	130.7	134.0	131.4	123.6	117.1	93.7	77.4	73.5	71.6
87.5°	45.5	39.7	36.4	48.1	41.0	36.4	35.1	28.0	21.5	21.5	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837886

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7
2.5°	2784.7	2784.7	2759.4	2753.5	2750.9	2754.2	2728.8	2724.3	2760.7	2748.3	2720.4
5°	2762.6	2761.3	2725.6	2719.0	2719.0	2715.1	2686.5	2680.0	2716.4	2706.0	2675.5
7.5°	2735.3	2731.4	2689.1	2684.6	2678.1	2675.5	2643.6	2639.0	2670.3	2663.8	2635.1
10°	2702.1	2698.2	2648.1	2644.9	2637.7	2632.5	2602.6	2599.4	2631.2	2620.8	2598.1
12.5°	2658.6	2651.4	2600.0	2596.8	2590.9	2589.0	2559.7	2558.4	2593.5	2583.1	2559.0
15°	2601.3	2595.5	2538.2	2539.5	2540.2	2540.2	2516.7	2515.4	2549.9	2545.4	2519.3
17.5°	2538.2	2530.4	2475.8	2479.7	2484.2	2489.4	2471.2	2474.5	2510.9	2505.0	2481.6
20°	2466.7	2458.9	2405.5	2416.6	2426.3	2436.7	2425.0	2434.1	2468.0	2465.4	2447.8
22.5°	2386.6	2378.8	2329.4	2346.3	2362.6	2382.1	2376.9	2387.3	2423.1	2422.4	2406.8
25°	2289.1	2291.0	2247.4	2268.3	2295.6	2322.9	2324.9	2341.8	2381.4	2377.5	2363.2
27.5°	2198.0	2200.6	2154.4	2189.6	2226.0	2261.1	2269.6	2293.0	2333.3	2330.1	2317.7
30°	2102.4	2105.6	2060.8	2108.9	2153.1	2196.1	2214.3	2246.1	2287.1	2287.1	2274.1
32.5°	2002.9	2008.7	1961.9	2026.3	2077.7	2127.8	2159.6	2192.8	2239.6	2238.3	2227.3
35°	1900.7	1907.2	1864.3	1946.3	1997.7	2058.8	2098.5	2142.7	2184.3	2185.0	2176.5
37.5°	1796.7	1804.5	1765.4	1855.2	1913.7	1985.9	2036.7	2080.9	2127.1	2129.7	2121.9
40°	1693.2	1701.7	1667.9	1754.4	1828.5	1909.2	1967.7	2019.8	2070.5	2071.8	2066.6
42.5°	1589.8	1598.9	1573.5	1658.1	1742.0	1828.5	1897.5	1956.7	2008.7	2012.0	2006.1
45°	1489.0	1496.8	1478.6	1570.9	1651.6	1745.9	1825.3	1892.3	1945.0	1949.5	1947.6
47.5°	1388.8	1396.0	1379.7	1464.3	1557.3	1657.4	1749.2	1823.3	1879.3	1884.5	1883.2
50°	1290.6	1296.4	1278.9	1367.3	1459.7	1566.4	1662.0	1747.9	1810.3	1815.5	1814.9
52.5°	1193.0	1198.9	1183.9	1276.9	1360.8	1473.4	1577.4	1670.5	1732.3	1740.1	1741.4
55°	1098.7	1101.3	1089.6	1178.7	1260.0	1377.7	1497.4	1587.8	1649.6	1656.1	1660.1
57.5°	1004.4	1005.0	995.3	1080.5	1158.5	1278.9	1404.4	1499.4	1557.9	1564.4	1570.3
60°	910.7	910.0	899.0	981.6	1056.4	1175.4	1306.2	1400.5	1457.1	1463.0	1470.8
62.5°	817.7	815.7	806.0	882.1	952.3	1070.1	1201.5	1292.5	1346.5	1350.4	1360.8
65°	725.3	723.3	714.2	784.5	848.2	960.8	1089.6	1176.1	1224.9	1230.1	1228.1
67.5°	634.2	630.3	623.2	686.3	744.2	848.2	971.8	1054.4	1094.8	1099.3	1111.7
70°	543.2	538.6	522.3	589.3	640.1	733.1	848.2	921.7	955.6	960.1	958.2
72.5°	453.4	448.8	431.3	493.1	536.0	617.3	720.1	781.2	810.5	814.4	814.4
75°	366.2	363.6	352.6	399.4	435.2	501.5	588.7	639.4	662.2	666.8	665.5
77.5°	282.3	280.4	269.3	309.6	337.6	387.0	457.3	497.0	513.9	519.1	530.1
80°	202.3	201.7	184.1	223.8	236.1	277.8	329.1	359.7	368.8	376.0	383.8
82.5°	129.4	130.1	112.5	146.4	151.6	178.2	210.1	229.0	235.5	241.3	247.2
85°	63.1	65.7	55.9	77.4	78.1	91.7	105.4	112.5	115.1	119.7	124.9
87.5°	16.3	18.9	10.4	22.1	19.5	25.4	29.3	31.2	30.6	33.8	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837886

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7
2.5°	2729.5	2750.3	2739.9	2773.7	2786.7	2765.9	2802.3	2803.0	2776.9	2807.5	2824.4
5°	2687.2	2708.6	2702.1	2737.3	2753.5	2735.3	2779.5	2788.0	2762.6	2797.1	2824.4
7.5°	2644.2	2669.6	2661.2	2696.9	2716.4	2702.1	2749.6	2763.3	2743.8	2781.5	2817.9
10°	2607.2	2628.6	2619.5	2657.3	2674.2	2662.5	2709.3	2734.7	2716.4	2762.6	2806.2
12.5°	2570.7	2588.3	2577.9	2609.1	2625.4	2610.4	2667.7	2691.1	2678.1	2726.2	2782.1
15°	2523.9	2543.4	2529.1	2557.1	2569.4	2556.4	2603.3	2643.6	2627.3	2680.0	2741.8
17.5°	2488.1	2499.2	2479.7	2501.8	2508.9	2491.4	2538.9	2578.5	2566.8	2624.1	2695.6
20°	2448.4	2457.6	2430.2	2442.6	2441.9	2419.8	2463.4	2502.4	2494.6	2557.7	2639.0
22.5°	2404.2	2408.8	2376.9	2379.5	2378.2	2341.8	2380.8	2420.5	2417.2	2481.0	2572.0
25°	2357.4	2358.0	2317.0	2315.7	2301.4	2258.5	2293.0	2337.9	2328.1	2397.1	2492.7
27.5°	2311.2	2304.7	2255.3	2243.5	2220.8	2169.4	2200.0	2240.3	2234.4	2302.1	2408.1
30°	2261.8	2253.3	2192.8	2171.3	2138.2	2079.0	2104.3	2142.1	2145.3	2204.5	2315.7
32.5°	2214.9	2193.5	2126.5	2095.2	2053.6	1984.6	1998.3	2036.7	2041.9	2101.7	2216.2
35°	2154.4	2140.1	2057.5	2004.2	1963.2	1887.7	1902.0	1928.7	1936.5	1995.1	2111.5
37.5°	2097.2	2074.4	1986.6	1921.5	1868.9	1789.5	1793.4	1820.7	1828.5	1887.7	2002.9
40°	2038.0	2005.5	1911.1	1835.0	1774.5	1691.3	1686.7	1715.3	1721.2	1779.1	1883.2
42.5°	1974.9	1935.9	1829.8	1746.6	1677.0	1592.4	1583.3	1608.0	1614.5	1671.1	1773.2
45°	1911.1	1864.3	1746.6	1655.5	1579.4	1492.9	1483.8	1502.6	1512.4	1565.7	1664.0
47.5°	1843.5	1788.8	1660.7	1559.2	1480.5	1394.0	1382.9	1401.8	1409.6	1462.3	1555.3
50°	1772.6	1706.2	1572.2	1460.4	1382.3	1297.1	1280.8	1302.9	1310.1	1359.5	1450.6
52.5°	1694.5	1621.0	1477.9	1360.8	1282.8	1201.5	1181.9	1203.4	1211.9	1260.0	1343.9
55°	1611.9	1532.6	1382.9	1269.1	1184.5	1105.2	1088.9	1097.4	1115.6	1161.1	1239.2
57.5°	1518.9	1440.2	1282.8	1167.0	1085.7	1009.6	995.9	1003.7	1020.6	1064.9	1135.1
60°	1420.0	1336.8	1180.6	1064.9	986.1	913.9	901.6	908.7	926.9	967.3	1032.3
62.5°	1322.4	1228.8	1075.3	960.1	888.6	821.6	818.3	815.7	832.6	871.7	928.9
65°	1204.1	1114.3	965.3	856.0	791.0	730.5	717.5	723.3	739.6	775.4	835.2
67.5°	1077.2	995.9	852.8	752.0	694.1	640.1	629.0	631.6	648.5	679.8	731.8
70°	942.6	871.0	737.7	647.2	598.5	547.7	540.6	541.2	557.5	584.8	630.3
72.5°	801.4	737.0	621.2	543.8	503.5	467.1	460.5	452.7	467.7	491.1	530.1
75°	657.6	601.1	505.4	442.3	410.5	379.9	374.0	366.2	381.2	401.4	431.9
77.5°	512.6	467.1	392.9	344.1	319.4	296.6	291.4	283.0	297.9	312.9	337.0
80°	370.8	337.6	293.4	242.0	233.5	218.6	213.4	204.3	218.6	228.3	246.5
82.5°	239.4	217.3	191.9	156.1	154.8	143.8	141.2	130.7	143.8	149.6	163.3
85°	121.0	110.6	104.1	79.4	82.0	74.8	74.2	63.1	73.5	76.1	83.9
87.5°	34.5	36.4	32.5	19.5	24.7	23.4	23.4	16.9	23.4	23.4	26.7
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: P837886

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7	2788.7
2.5°	2791.3	2802.3	2804.9	2804.3	2811.4	2850.4	2837.4	2850.4
5°	2797.8	2822.5	2829.0	2838.1	2849.8	2894.0	2879.7	2895.3
7.5°	2801.7	2838.7	2853.1	2870.6	2889.5	2938.9	2927.2	2942.8
10°	2801.7	2849.8	2870.6	2899.9	2925.3	2982.5	2971.4	2989.7
12.5°	2790.0	2851.8	2881.0	2922.0	2954.5	3016.3	3011.8	3024.8
15°	2765.9	2842.0	2882.3	2935.0	2975.3	3044.3	3042.3	3058.0
17.5°	2733.4	2825.1	2873.9	2940.2	2991.0	3068.4	3072.9	3081.4
20°	2692.4	2793.2	2857.0	2938.3	3002.0	3087.2	3093.1	3104.8
22.5°	2638.4	2754.8	2831.6	2929.8	3003.3	3095.0	3105.4	3116.5
25°	2574.6	2708.6	2798.4	2913.5	2996.8	3094.4	3108.7	3118.5
27.5°	2501.8	2648.8	2756.1	2887.5	2978.6	3084.0	3101.5	3113.2
30°	2417.2	2585.0	2708.0	2853.7	2953.9	3064.5	3083.3	3095.0
32.5°	2330.1	2514.8	2650.7	2810.1	2918.1	3033.2	3049.5	3058.6
35°	2235.1	2429.6	2581.8	2754.2	2871.9	2983.1	2995.5	3005.3
37.5°	2131.7	2337.2	2503.1	2691.1	2806.9	2913.5	2924.6	2935.7
40°	2025.0	2240.3	2414.6	2613.7	2729.5	2828.3	2840.0	2847.8
42.5°	1917.6	2133.0	2320.3	2522.6	2637.7	2732.7	2739.9	2747.7
45°	1809.0	2021.7	2214.3	2421.8	2535.6	2624.7	2627.3	2633.8
47.5°	1698.4	1906.6	2097.8	2306.6	2419.2	2500.5	2503.1	2508.3
50°	1587.2	1791.5	1973.6	2182.4	2292.3	2378.2	2366.5	2371.7
52.5°	1477.9	1670.5	1856.5	2048.4	2157.0	2233.1	2236.4	2226.0
55°	1370.6	1552.1	1723.1	1907.9	2011.3	2070.5	2068.6	2072.5
57.5°	1262.0	1432.4	1589.1	1758.3	1859.1	1915.0	1926.8	1913.1
60°	1151.4	1311.4	1451.9	1604.8	1702.3	1749.2	1762.8	1749.8
62.5°	1041.4	1188.4	1315.9	1449.3	1539.7	1597.6	1596.3	1582.0
65°	931.5	1064.9	1178.7	1291.9	1370.6	1428.5	1425.9	1412.9
67.5°	830.0	940.0	1042.1	1133.8	1202.1	1241.8	1255.4	1239.8
70°	718.1	813.1	902.9	976.4	1033.0	1068.8	1081.8	1068.1
72.5°	606.3	686.9	750.0	820.9	864.5	894.4	908.1	895.1
75°	495.7	562.0	613.4	668.7	699.3	724.6	740.3	727.2
77.5°	388.3	439.7	480.7	521.0	556.2	562.0	575.7	567.2
80°	286.2	323.3	353.2	379.9	405.3	407.9	418.9	413.7
82.5°	190.6	215.3	223.1	251.1	267.4	264.7	275.8	271.9
85°	100.8	115.8	129.4	137.9	147.0	138.6	148.3	144.4
87.5°	33.8	35.8	31.2	44.2	48.8	41.6	47.5	45.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)