

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: P837870

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5STD-30-120-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: P837870
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-LD4-5STD-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

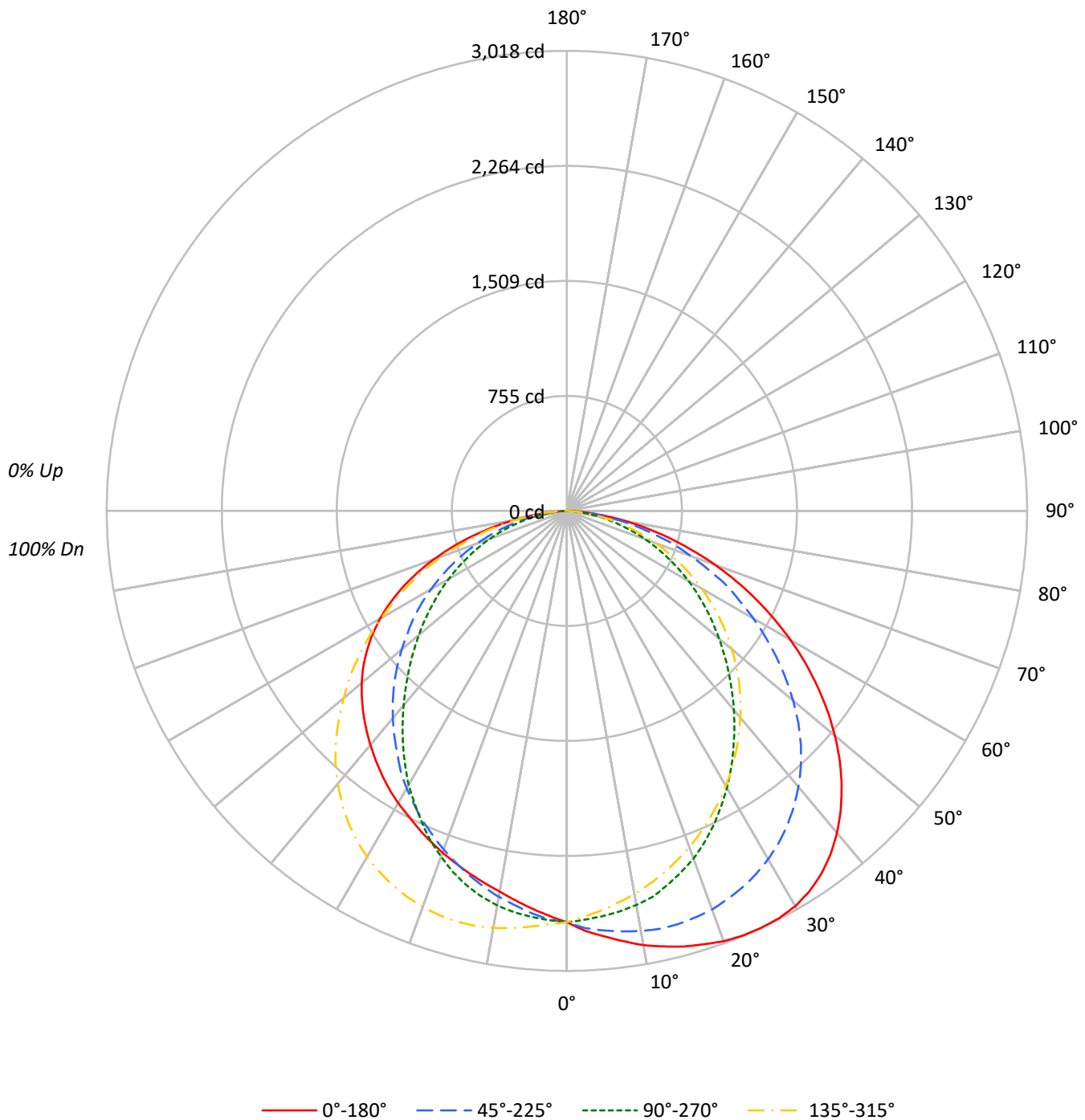
Lumens per Lamp: N/A
Luminaire Lumens: 7916.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7261	7261	7261	7261
5°	7568	7209	7073	7221
10°	7905	7172	6930	7182
15°	8243	7081	6862	7083
20°	8603	6952	6832	6913
25°	8959	6758	6831	6689
30°	9306	6523	6877	6450
35°	9553	6255	6946	6156
40°	9680	5985	7043	5851
45°	9699	5713	7179	5569
50°	9607	5452	7355	5307
55°	9408	5209	7518	5065
60°	9113	4956	7619	4827
65°	8705	4665	7579	4557
70°	8131	4323	7309	4244
75°	7316	3854	6708	3834
80°	6203	3228	5638	3278
85°	4313	2137	3575	2195

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	3.2
10°-20°	741.9	9.4
20°-30°	1137.0	14.4
30°-40°	1382.5	17.5
40°-50°	1437.2	18.2
50°-60°	1298.2	16.4
60°-70°	987.0	12.5
70°-80°	550.2	7.0
80°-90°	126.7	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°	2135.0	27.0
0°-40°	3517.5	44.4
0°-60°	6252.9	79.0
0°-90°	7916.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7916.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2698	2698	2698	2698	2698	
5°	2802	2669	2618	2673	2802	270
15°	2959	2542	2463	2542	2959	839
25°	3018	2276	2301	2253	3018	1394
35°	2908	1904	2114	1874	2908	1816
45°	2549	1501	1886	1463	2549	1962
55°	2005	1110	1602	1080	2005	1790
65°	1367	733	1190	716	1367	1351
75°	704	371	645	369	704	748
85°	140	69	116	71	140	176
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°	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4
2.5°	2758.2	2717.9	2718.5	2753.8	2726.7	2739.9	2702.2	2716.6	2712.2	2715.4	2684.5
5°	2801.6	2758.2	2757.6	2787.8	2757.6	2763.2	2715.4	2724.8	2711.0	2702.2	2668.8
7.5°	2847.6	2804.1	2799.7	2826.2	2786.5	2782.1	2729.2	2729.2	2704.1	2682.0	2650.6
10°	2892.9	2848.2	2842.5	2862.7	2813.6	2799.1	2734.9	2724.8	2691.5	2658.7	2624.7
12.5°	2926.9	2881.6	2877.2	2889.7	2834.3	2807.9	2734.9	2715.4	2666.3	2620.3	2593.9
15°	2959.0	2912.4	2900.4	2906.7	2843.2	2807.9	2726.1	2695.9	2632.9	2572.5	2541.7
17.5°	2981.6	2936.9	2925.0	2924.4	2847.6	2797.2	2707.2	2665.7	2590.1	2517.1	2486.3
20°	3004.3	2959.6	2944.5	2933.2	2846.3	2782.7	2679.5	2623.5	2535.4	2453.5	2427.7
22.5°	3015.6	2969.7	2953.3	2936.3	2838.1	2756.3	2645.5	2574.4	2473.7	2376.1	2354.7
25°	3017.5	2970.3	2952.7	2928.1	2821.8	2724.8	2601.5	2515.2	2402.6	2294.3	2276.0
27.5°	3012.5	2960.9	2943.2	2913.7	2797.2	2686.4	2549.2	2447.9	2327.0	2207.4	2187.9
30°	2994.9	2942.6	2925.6	2887.2	2762.6	2639.2	2491.9	2373.0	2243.3	2116.2	2099.2
32.5°	2959.6	2908.6	2894.8	2856.4	2724.8	2584.5	2425.2	2292.4	2150.8	2029.3	2004.1
35°	2908.0	2857.0	2848.2	2807.9	2672.0	2519.0	2352.2	2204.3	2052.6	1928.6	1904.0
37.5°	2840.6	2797.8	2784.6	2745.0	2609.6	2444.7	2268.5	2108.6	1952.5	1819.1	1804.0
40°	2755.7	2715.4	2705.3	2670.1	2537.3	2362.3	2177.8	2009.8	1849.3	1725.3	1703.9
42.5°	2658.7	2621.0	2615.3	2578.8	2447.9	2271.0	2079.7	1907.2	1741.6	1622.1	1600.7
45°	2548.6	2512.1	2510.8	2476.2	2350.3	2169.7	1976.4	1803.3	1636.5	1512.5	1501.2
47.5°	2427.1	2394.4	2394.4	2362.3	2241.4	2058.3	1870.1	1695.1	1530.8	1421.3	1401.1
50°	2294.9	2264.1	2254.6	2238.9	2121.2	1936.8	1758.0	1589.3	1426.3	1321.8	1302.3
52.5°	2153.9	2127.5	2133.8	2104.8	1990.9	1810.3	1644.7	1470.4	1321.2	1226.1	1206.6
55°	2005.4	1967.6	1973.3	1962.6	1854.9	1680.0	1517.6	1372.2	1218.0	1128.6	1110.3
57.5°	1851.2	1802.1	1822.2	1815.9	1710.2	1546.5	1401.1	1260.8	1115.4	1032.9	1015.3
60°	1693.2	1646.0	1666.7	1661.1	1561.6	1413.1	1280.9	1150.6	1013.4	938.5	920.9
62.5°	1530.8	1487.4	1506.2	1501.8	1410.6	1276.5	1161.3	1041.7	910.8	843.4	827.1
65°	1367.1	1325.6	1342.6	1339.4	1255.1	1153.1	1038.6	929.0	807.6	749.0	732.7
67.5°	1199.7	1161.3	1177.0	1177.0	1099.6	1002.1	915.2	815.1	706.2	655.9	640.8
70°	1033.5	997.7	1011.5	1010.2	944.8	865.5	790.6	701.2	603.6	562.1	549.5
72.5°	866.1	834.6	847.2	846.0	791.2	740.2	665.9	588.5	503.5	470.2	458.9
75°	703.7	674.1	686.1	684.8	640.1	592.3	542.6	478.4	405.4	382.1	370.7
77.5°	548.9	518.7	528.7	528.7	496.0	461.4	421.7	372.0	320.4	295.2	287.0
80°	400.3	385.8	380.8	381.4	359.4	336.7	316.6	268.8	231.0	214.0	208.3
82.5°	263.1	251.1	246.1	247.4	234.8	220.9	208.3	175.0	149.8	139.7	136.6
85°	139.7	130.9	126.5	129.7	127.1	119.6	113.3	90.6	74.9	71.1	69.2
87.5°	44.1	38.4	35.2	46.6	39.7	35.2	34.0	27.1	20.8	20.8	20.1
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°	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4
2.5°	2694.6	2694.6	2670.1	2664.4	2661.9	2665.0	2640.5	2636.1	2671.3	2659.4	2632.3
5°	2673.2	2672.0	2637.3	2631.0	2631.0	2627.3	2599.6	2593.3	2628.5	2618.5	2588.9
7.5°	2646.8	2643.0	2602.1	2597.7	2591.4	2588.9	2558.0	2553.6	2583.8	2577.5	2549.8
10°	2614.7	2610.9	2562.4	2559.3	2552.4	2547.3	2518.4	2515.2	2546.1	2536.0	2514.0
12.5°	2572.5	2565.6	2515.9	2512.7	2507.0	2505.2	2476.8	2475.6	2509.6	2499.5	2476.2
15°	2517.1	2511.4	2456.1	2457.3	2457.9	2457.9	2435.3	2434.0	2467.4	2463.0	2437.8
17.5°	2456.1	2448.5	2395.6	2399.4	2403.8	2408.9	2391.2	2394.4	2429.6	2424.0	2401.3
20°	2386.8	2379.3	2327.7	2338.4	2347.8	2357.9	2346.5	2355.3	2388.1	2385.6	2368.6
22.5°	2309.4	2301.8	2254.0	2270.4	2286.1	2305.0	2300.0	2310.0	2344.6	2344.0	2328.9
25°	2215.0	2216.9	2174.7	2194.8	2221.3	2247.7	2249.6	2266.0	2304.4	2300.6	2286.7
27.5°	2126.9	2129.4	2084.7	2118.7	2153.9	2187.9	2196.1	2218.8	2257.8	2254.6	2242.7
30°	2034.3	2037.5	1994.1	2040.6	2083.4	2125.0	2142.6	2173.4	2213.1	2213.1	2200.5
32.5°	1938.0	1943.7	1898.4	1960.7	2010.4	2058.9	2089.7	2121.8	2167.1	2165.9	2155.2
35°	1839.2	1845.5	1804.0	1883.3	1933.0	1992.2	2030.6	2073.4	2113.6	2114.3	2106.1
37.5°	1738.5	1746.1	1708.3	1795.2	1851.8	1921.7	1970.8	2013.6	2058.3	2060.8	2053.2
40°	1638.4	1646.6	1613.9	1697.6	1769.3	1847.4	1904.0	1954.4	2003.5	2004.8	1999.7
42.5°	1538.3	1547.2	1522.6	1604.4	1685.6	1769.3	1836.1	1893.3	1943.7	1946.8	1941.2
45°	1440.8	1448.3	1430.7	1520.1	1598.1	1689.4	1766.2	1831.0	1882.0	1886.4	1884.5
47.5°	1343.8	1350.8	1335.0	1416.9	1506.9	1603.8	1692.6	1764.3	1818.4	1823.5	1822.2
50°	1248.8	1254.5	1237.5	1323.1	1412.5	1515.7	1608.2	1691.3	1751.7	1756.8	1756.1
52.5°	1154.4	1160.1	1145.6	1235.6	1316.8	1425.7	1526.4	1616.4	1676.2	1683.7	1685.0
55°	1063.1	1065.6	1054.3	1140.5	1219.2	1333.1	1449.0	1536.5	1596.2	1602.5	1606.3
57.5°	971.8	972.5	963.0	1045.5	1121.0	1237.5	1359.0	1450.8	1507.5	1513.8	1519.5
60°	881.2	880.6	869.9	949.8	1022.2	1137.4	1263.9	1355.2	1409.9	1415.6	1423.2
62.5°	791.2	789.3	779.9	853.5	921.5	1035.4	1162.6	1250.7	1302.9	1306.7	1316.8
65°	701.8	699.9	691.1	759.1	820.8	929.7	1054.3	1138.0	1185.2	1190.3	1188.4
67.5°	613.7	609.9	603.0	664.1	720.1	820.8	940.4	1020.3	1059.3	1063.7	1075.7
70°	525.6	521.2	505.4	570.3	619.4	709.4	820.8	891.9	924.6	929.0	927.2
72.5°	438.7	434.3	417.3	477.1	518.7	597.3	696.8	756.0	784.3	788.1	788.1
75°	354.4	351.9	341.2	386.5	421.1	485.3	569.6	618.7	640.8	645.2	643.9
77.5°	273.2	271.3	260.6	299.6	326.7	374.5	442.5	480.9	497.3	502.3	513.0
80°	195.8	195.1	178.1	216.5	228.5	268.8	318.5	348.1	356.9	363.8	371.4
82.5°	125.3	125.9	108.9	141.6	146.7	172.5	203.3	221.6	227.9	233.5	239.2
85°	61.1	63.6	54.1	74.9	75.5	88.8	102.0	108.9	111.4	115.8	120.9
87.5°	15.7	18.3	10.1	21.4	18.9	24.5	28.3	30.2	29.6	32.7	34.6
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°	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4
2.5°	2641.1	2661.3	2651.2	2683.9	2696.5	2676.4	2711.6	2712.2	2687.1	2716.6	2733.0
5°	2600.2	2621.0	2614.7	2648.7	2664.4	2646.8	2689.6	2697.8	2673.2	2706.6	2733.0
7.5°	2558.7	2583.2	2575.0	2609.6	2628.5	2614.7	2660.6	2673.8	2655.0	2691.5	2726.7
10°	2522.8	2543.5	2534.7	2571.2	2587.6	2576.3	2621.6	2646.1	2628.5	2673.2	2715.4
12.5°	2487.5	2504.5	2494.5	2524.7	2540.4	2525.9	2581.3	2604.0	2591.4	2638.0	2692.1
15°	2442.2	2461.1	2447.2	2474.3	2486.3	2473.7	2519.0	2558.0	2542.3	2593.3	2653.1
17.5°	2407.6	2418.3	2399.4	2420.8	2427.7	2410.7	2456.7	2495.1	2483.8	2539.1	2608.4
20°	2369.2	2378.0	2351.6	2363.5	2362.9	2341.5	2383.7	2421.4	2413.9	2474.9	2553.6
22.5°	2326.4	2330.8	2300.0	2302.5	2301.2	2266.0	2303.7	2342.1	2339.0	2400.7	2488.8
25°	2281.1	2281.7	2242.1	2240.8	2226.9	2185.4	2218.8	2262.2	2252.8	2319.5	2412.0
27.5°	2236.4	2230.1	2182.3	2170.9	2148.9	2099.2	2128.8	2167.8	2162.1	2227.6	2330.2
30°	2188.5	2180.4	2121.8	2101.1	2069.0	2011.7	2036.2	2072.7	2075.9	2133.2	2240.8
32.5°	2143.2	2122.5	2057.6	2027.4	1987.1	1920.4	1933.6	1970.8	1975.8	2033.7	2144.5
35°	2084.7	2070.8	1990.9	1939.3	1899.6	1826.6	1840.5	1866.3	1873.8	1930.5	2043.1
37.5°	2029.3	2007.3	1922.3	1859.4	1808.4	1731.6	1735.4	1761.8	1769.3	1826.6	1938.0
40°	1972.0	1940.6	1849.3	1775.6	1717.1	1636.5	1632.1	1659.8	1665.5	1721.5	1822.2
42.5°	1911.0	1873.2	1770.6	1690.0	1622.7	1540.9	1532.0	1556.0	1562.3	1617.0	1715.8
45°	1849.3	1804.0	1690.0	1601.9	1528.3	1444.6	1435.7	1454.0	1463.4	1515.1	1610.1
47.5°	1783.8	1730.9	1606.9	1508.8	1432.6	1348.9	1338.2	1356.4	1364.0	1415.0	1505.0
50°	1715.2	1651.0	1521.3	1413.1	1337.6	1255.1	1239.4	1260.8	1267.7	1315.5	1403.6
52.5°	1639.7	1568.6	1430.1	1316.8	1241.2	1162.6	1143.7	1164.5	1172.6	1219.2	1300.4
55°	1559.7	1483.0	1338.2	1228.0	1146.2	1069.4	1053.7	1061.9	1079.5	1123.5	1199.1
57.5°	1469.7	1393.6	1241.2	1129.2	1050.5	976.9	963.7	971.2	987.6	1030.4	1098.4
60°	1374.1	1293.5	1142.4	1030.4	954.2	884.4	872.4	879.3	896.9	936.0	998.9
62.5°	1279.6	1189.0	1040.5	929.0	859.8	795.0	791.8	789.3	805.7	843.4	898.8
65°	1165.1	1078.2	934.1	828.3	765.4	706.9	694.3	699.9	715.7	750.3	808.2
67.5°	1042.3	963.7	825.2	727.6	671.6	619.4	608.7	611.2	627.5	657.8	708.1
70°	912.1	842.8	713.8	626.3	579.1	530.0	523.1	523.7	539.4	565.9	609.9
72.5°	775.5	713.2	601.1	526.2	487.2	451.9	445.6	438.1	452.6	475.2	513.0
75°	636.4	581.6	489.1	428.0	397.2	367.6	361.9	354.4	368.8	388.4	417.9
77.5°	496.0	451.9	380.2	333.0	309.1	287.0	282.0	273.8	288.3	302.8	326.0
80°	358.8	326.7	283.9	234.2	226.0	211.5	206.5	197.6	211.5	220.9	238.6
82.5°	231.6	210.2	185.7	151.1	149.8	139.1	136.6	126.5	139.1	144.8	158.0
85°	117.1	107.0	100.7	76.8	79.3	72.4	71.8	61.1	71.1	73.6	81.2
87.5°	33.4	35.2	31.5	18.9	23.9	22.7	22.7	16.4	22.7	22.7	25.8
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: P837870

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5STD-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4	2698.4
2.5°	2700.9	2711.6	2714.1	2713.5	2720.4	2758.2	2745.6	2758.2
5°	2707.2	2731.1	2737.4	2746.2	2757.6	2800.4	2786.5	2801.6
7.5°	2711.0	2746.9	2760.7	2777.7	2796.0	2843.8	2832.5	2847.6
10°	2711.0	2757.6	2777.7	2806.0	2830.6	2886.0	2875.3	2892.9
12.5°	2699.6	2759.4	2787.8	2827.4	2858.9	2918.7	2914.3	2926.9
15°	2676.4	2750.0	2789.0	2840.0	2879.0	2945.8	2943.9	2959.0
17.5°	2644.9	2733.6	2780.8	2845.0	2894.1	2969.0	2973.5	2981.6
20°	2605.2	2702.8	2764.5	2843.2	2904.8	2987.3	2993.0	3004.3
22.5°	2553.0	2665.7	2739.9	2835.0	2906.1	2994.9	3004.9	3015.6
25°	2491.3	2621.0	2707.8	2819.2	2899.8	2994.2	3008.1	3017.5
27.5°	2420.8	2563.1	2666.9	2794.1	2882.2	2984.2	3001.1	3012.5
30°	2339.0	2501.4	2620.3	2761.3	2858.3	2965.3	2983.5	2994.9
32.5°	2254.6	2433.4	2565.0	2719.2	2823.6	2935.1	2950.8	2959.6
35°	2162.7	2350.9	2498.2	2665.0	2779.0	2886.6	2898.6	2908.0
37.5°	2062.7	2261.6	2422.1	2604.0	2716.0	2819.2	2829.9	2840.6
40°	1959.4	2167.8	2336.5	2529.1	2641.1	2736.8	2748.1	2755.7
42.5°	1855.6	2063.9	2245.2	2441.0	2552.4	2644.3	2651.2	2658.7
45°	1750.5	1956.3	2142.6	2343.4	2453.5	2539.8	2542.3	2548.6
47.5°	1643.5	1844.9	2029.9	2232.0	2340.9	2419.6	2422.1	2427.1
50°	1535.8	1733.5	1909.7	2111.8	2218.1	2301.2	2289.9	2294.9
52.5°	1430.1	1616.4	1796.4	1982.1	2087.2	2160.9	2164.0	2153.9
55°	1326.2	1501.8	1667.4	1846.1	1946.2	2003.5	2001.6	2005.4
57.5°	1221.1	1386.0	1537.7	1701.4	1798.9	1853.1	1864.4	1851.2
60°	1114.1	1268.9	1404.9	1552.8	1647.2	1692.6	1705.8	1693.2
62.5°	1007.7	1150.0	1273.3	1402.4	1489.9	1545.9	1544.6	1530.8
65°	901.4	1030.4	1140.5	1250.1	1326.2	1382.2	1379.7	1367.1
67.5°	803.2	909.5	1008.4	1097.1	1163.2	1201.6	1214.8	1199.7
70°	694.9	786.8	873.7	944.8	999.5	1034.2	1046.8	1033.5
72.5°	586.6	664.7	725.7	794.3	836.5	865.5	878.7	866.1
75°	479.6	543.8	593.6	647.1	676.6	701.2	716.3	703.7
77.5°	375.8	425.5	465.2	504.2	538.2	543.8	557.1	548.9
80°	277.0	312.8	341.8	367.6	392.1	394.7	405.4	400.3
82.5°	184.4	208.3	215.9	243.0	258.7	256.2	266.9	263.1
85°	97.6	112.0	125.3	133.4	142.3	134.1	143.5	139.7
87.5°	32.7	34.6	30.2	42.8	47.2	40.3	45.9	44.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)