

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: P837735

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2STD-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: P837735
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-LD4-2STD-30-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

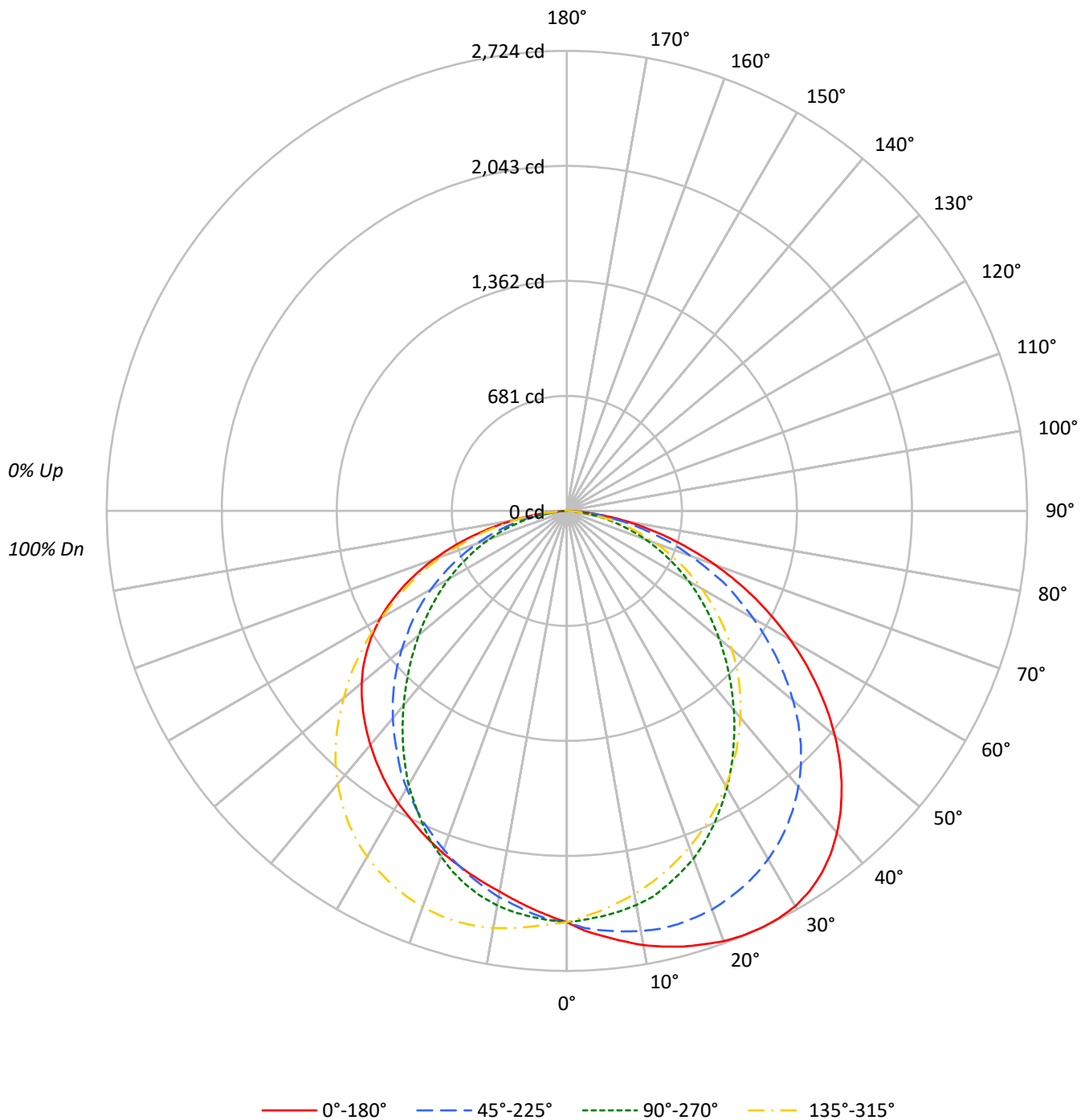
Lumens per Lamp: N/A
Luminaire Lumens: 7145.6 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6554	6554	6554	6554
5°	6831	6507	6384	6518
10°	7135	6474	6255	6483
15°	7441	6391	6193	6393
20°	7765	6275	6166	6239
25°	8087	6100	6165	6037
30°	8399	5887	6207	5822
35°	8622	5646	6269	5556
40°	8737	5402	6356	5281
45°	8754	5157	6480	5027
50°	8672	4921	6638	4790
55°	8492	4702	6786	4571
60°	8225	4473	6877	4357
65°	7857	4211	6840	4113
70°	7340	3902	6598	3831
75°	6604	3479	6054	3461
80°	5599	2913	5089	2958
85°	3893	1930	3226	1982

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	3.2
10°-20°	669.6	9.4
20°-30°	1026.2	14.4
30°-40°	1247.8	17.5
40°-50°	1297.2	18.2
50°-60°	1171.7	16.4
60°-70°	890.8	12.5
70°-80°	496.6	7.0
80°-90°	114.3	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°	1927.1	27.0
0°-40°	3174.9	44.4
0°-60°	5643.8	79.0
0°-90°	7145.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7145.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2436	2436	2436	2436	2436	
5°	2529	2409	2363	2413	2529	244
15°	2671	2294	2223	2295	2671	757
25°	2724	2054	2076	2033	2724	1258
35°	2625	1719	1908	1691	2625	1639
45°	2300	1355	1703	1321	2300	1771
55°	1810	1002	1446	974	1810	1616
65°	1234	661	1074	646	1234	1219
75°	635	335	582	333	635	675
85°	126	62	104	64	126	159
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°	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5
2.5°	2489.5	2453.2	2453.7	2485.5	2461.1	2473.0	2439.0	2452.0	2448.0	2450.9	2423.0
5°	2528.7	2489.5	2489.0	2516.2	2489.0	2494.1	2450.9	2459.4	2446.9	2439.0	2408.8
7.5°	2570.2	2531.0	2527.0	2550.9	2515.1	2511.1	2463.4	2463.4	2440.7	2420.8	2392.4
10°	2611.1	2570.8	2565.6	2583.8	2539.5	2526.4	2468.5	2459.4	2429.3	2399.8	2369.1
12.5°	2641.8	2600.9	2596.9	2608.3	2558.3	2534.4	2468.5	2450.9	2406.6	2365.1	2341.2
15°	2670.8	2628.7	2617.9	2623.6	2566.2	2534.4	2460.5	2433.3	2376.5	2321.9	2294.1
17.5°	2691.2	2650.9	2640.1	2639.5	2570.2	2524.7	2443.5	2406.0	2337.8	2271.9	2244.1
20°	2711.7	2671.3	2657.7	2647.5	2569.1	2511.7	2418.5	2367.9	2288.4	2214.5	2191.3
22.5°	2721.9	2680.4	2665.6	2650.3	2561.7	2487.8	2387.8	2323.6	2232.7	2144.7	2125.4
25°	2723.6	2681.0	2665.1	2642.9	2546.9	2459.4	2348.1	2270.2	2168.5	2070.8	2054.3
27.5°	2719.0	2672.5	2656.5	2629.8	2524.7	2424.8	2300.9	2209.4	2100.4	1992.4	1974.8
30°	2703.1	2656.0	2640.6	2606.0	2493.5	2382.1	2249.2	2141.8	2024.8	1910.0	1894.7
32.5°	2671.3	2625.3	2612.8	2578.1	2459.4	2332.7	2189.0	2069.1	1941.3	1831.6	1808.9
35°	2624.7	2578.7	2570.8	2534.4	2411.7	2273.6	2123.1	1989.6	1852.7	1740.7	1718.6
37.5°	2563.9	2525.3	2513.4	2477.6	2355.4	2206.6	2047.5	1903.2	1762.3	1641.9	1628.2
40°	2487.2	2450.9	2441.8	2410.0	2290.1	2132.2	1965.7	1814.0	1669.1	1557.2	1537.9
42.5°	2399.8	2365.7	2360.6	2327.6	2209.4	2049.8	1877.1	1721.4	1572.0	1464.1	1444.7
45°	2300.3	2267.4	2266.2	2235.0	2121.4	1958.3	1783.9	1627.7	1477.1	1365.2	1355.0
47.5°	2190.7	2161.1	2161.1	2132.2	2023.1	1857.8	1687.9	1530.0	1381.7	1282.8	1264.6
50°	2071.4	2043.5	2035.0	2020.8	1914.6	1748.1	1586.8	1434.5	1287.4	1193.1	1175.4
52.5°	1944.1	1920.3	1925.9	1899.8	1797.0	1633.9	1484.5	1327.1	1192.5	1106.7	1089.1
55°	1810.0	1776.0	1781.1	1771.4	1674.3	1516.3	1369.7	1238.5	1099.3	1018.6	1002.2
57.5°	1670.9	1626.5	1644.7	1639.0	1543.6	1395.9	1264.6	1138.0	1006.7	932.3	916.4
60°	1528.3	1485.6	1504.4	1499.3	1409.5	1275.4	1156.1	1038.5	914.7	847.1	831.2
62.5°	1381.7	1342.5	1359.5	1355.5	1273.2	1152.2	1048.2	940.2	822.1	761.3	746.5
65°	1234.0	1196.5	1211.8	1209.0	1132.8	1040.8	937.4	838.6	728.9	676.1	661.3
67.5°	1082.8	1048.2	1062.4	1062.4	992.5	904.5	826.1	735.7	637.4	592.0	578.4
70°	932.9	900.5	913.0	911.8	852.8	781.2	713.6	632.9	544.8	507.3	496.0
72.5°	781.7	753.3	764.7	763.6	714.1	668.1	601.1	531.2	454.5	424.4	414.2
75°	635.2	608.5	619.3	618.1	577.8	534.6	489.7	431.8	365.9	344.9	334.6
77.5°	495.4	468.1	477.2	477.2	447.7	416.4	380.6	335.8	289.2	266.5	259.1
80°	361.3	348.3	343.7	344.3	324.4	303.9	285.8	242.6	208.5	193.2	188.0
82.5°	237.5	226.7	222.1	223.3	211.9	199.4	188.0	157.9	135.2	126.1	123.3
85°	126.1	118.2	114.2	117.0	114.8	107.9	102.3	81.8	67.6	64.2	62.5
87.5°	39.8	34.7	31.8	42.0	35.8	31.8	30.7	24.4	18.7	18.7	18.2
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°	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5
2.5°	2432.1	2432.1	2410.0	2404.9	2402.6	2405.4	2383.3	2379.3	2411.1	2400.3	2375.9
5°	2412.8	2411.7	2380.4	2374.8	2374.8	2371.4	2346.4	2340.7	2372.5	2363.4	2336.7
7.5°	2389.0	2385.6	2348.6	2344.6	2339.0	2336.7	2308.9	2304.9	2332.1	2326.5	2301.5
10°	2360.0	2356.6	2312.8	2310.0	2303.7	2299.2	2273.1	2270.2	2298.1	2289.0	2269.1
12.5°	2321.9	2315.7	2270.8	2268.0	2262.8	2261.1	2235.6	2234.4	2265.1	2256.0	2235.0
15°	2271.9	2266.8	2216.8	2218.0	2218.5	2218.5	2198.1	2196.9	2227.0	2223.1	2200.3
17.5°	2216.8	2210.0	2162.3	2165.7	2169.7	2174.2	2158.3	2161.1	2193.0	2187.8	2167.4
20°	2154.3	2147.5	2100.9	2110.6	2119.1	2128.2	2118.0	2125.9	2155.5	2153.2	2137.9
22.5°	2084.4	2077.6	2034.5	2049.2	2063.4	2080.5	2075.9	2085.0	2116.3	2115.7	2102.1
25°	1999.2	2000.9	1962.9	1981.0	2004.9	2028.8	2030.5	2045.2	2079.9	2076.5	2064.0
27.5°	1919.7	1922.0	1881.6	1912.3	1944.1	1974.8	1982.2	2002.6	2037.9	2035.0	2024.2
30°	1836.2	1839.0	1799.8	1841.9	1880.5	1918.0	1933.9	1961.7	1997.5	1997.5	1986.2
32.5°	1749.3	1754.4	1713.5	1769.7	1814.6	1858.3	1886.2	1915.1	1956.1	1954.9	1945.3
35°	1660.1	1665.7	1628.2	1699.8	1744.7	1798.1	1832.8	1871.4	1907.8	1908.3	1900.9
37.5°	1569.2	1576.0	1541.9	1620.3	1671.4	1734.5	1778.8	1817.4	1857.8	1860.0	1853.2
40°	1478.8	1486.2	1456.7	1532.2	1597.0	1667.4	1718.6	1764.0	1808.3	1809.5	1804.9
42.5°	1388.5	1396.4	1374.3	1448.1	1521.4	1597.0	1657.2	1708.9	1754.4	1757.2	1752.1
45°	1300.4	1307.3	1291.3	1372.0	1442.5	1524.8	1594.2	1652.7	1698.7	1702.7	1701.0
47.5°	1212.9	1219.2	1205.0	1278.8	1360.1	1447.6	1527.7	1592.5	1641.3	1645.9	1644.7
50°	1127.2	1132.3	1116.9	1194.2	1274.9	1368.0	1451.6	1526.5	1581.1	1585.6	1585.1
52.5°	1041.9	1047.1	1034.0	1115.2	1188.5	1286.8	1377.7	1458.9	1512.9	1519.7	1520.9
55°	959.6	961.8	951.6	1029.4	1100.5	1203.3	1307.8	1386.8	1440.8	1446.4	1449.9
57.5°	877.2	877.8	869.2	943.7	1011.8	1116.9	1226.6	1309.5	1360.7	1366.3	1371.5
60°	795.4	794.8	785.1	857.3	922.6	1026.6	1140.8	1223.2	1272.6	1277.7	1284.5
62.5°	714.1	712.4	703.9	770.4	831.7	934.6	1049.3	1128.9	1176.0	1179.4	1188.5
65°	633.5	631.8	623.8	685.2	740.8	839.1	951.6	1027.2	1069.8	1074.3	1072.6
67.5°	553.9	550.5	544.3	599.4	649.9	740.8	848.8	920.9	956.2	960.1	970.9
70°	474.4	470.4	456.2	514.7	559.0	640.3	740.8	805.0	834.6	838.6	836.8
72.5°	396.0	392.0	376.7	430.6	468.1	539.1	628.9	682.3	707.9	711.3	711.3
75°	319.9	317.6	307.9	348.8	380.1	438.0	514.2	558.5	578.4	582.3	581.2
77.5°	246.6	244.9	235.2	270.4	294.9	338.0	399.4	434.0	448.8	453.4	463.0
80°	176.7	176.1	160.8	195.4	206.2	242.6	287.5	314.2	322.1	328.4	335.2
82.5°	113.1	113.6	98.3	127.8	132.4	155.7	183.5	200.0	205.7	210.8	215.9
85°	55.1	57.4	48.9	67.6	68.2	80.1	92.0	98.3	100.6	104.5	109.1
87.5°	14.2	16.5	9.1	19.3	17.0	22.2	25.6	27.3	26.7	29.5	31.2
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°	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5
2.5°	2383.8	2402.0	2392.9	2422.5	2433.8	2415.7	2447.5	2448.0	2425.3	2452.0	2466.8
5°	2346.9	2365.7	2360.0	2390.7	2404.9	2389.0	2427.6	2435.0	2412.8	2442.9	2466.8
7.5°	2309.4	2331.6	2324.2	2355.4	2372.5	2360.0	2401.5	2413.4	2396.3	2429.3	2461.1
10°	2277.0	2295.8	2287.8	2320.8	2335.6	2325.3	2366.2	2388.4	2372.5	2412.8	2450.9
12.5°	2245.2	2260.6	2251.5	2278.7	2292.9	2279.9	2329.9	2350.3	2339.0	2381.0	2429.9
15°	2204.3	2221.4	2208.9	2233.3	2244.1	2232.7	2273.6	2308.9	2294.7	2340.7	2394.6
17.5°	2173.1	2182.7	2165.7	2185.0	2191.3	2175.9	2217.4	2252.0	2241.8	2291.8	2354.3
20°	2138.4	2146.4	2122.5	2133.3	2132.7	2113.4	2151.5	2185.6	2178.8	2233.9	2304.9
22.5°	2099.8	2103.8	2075.9	2078.2	2077.1	2045.2	2079.3	2114.0	2111.1	2166.8	2246.4
25°	2058.9	2059.5	2023.7	2022.5	2010.0	1972.5	2002.6	2041.8	2033.3	2093.5	2177.1
27.5°	2018.5	2012.9	1969.7	1959.5	1939.6	1894.7	1921.4	1956.6	1951.5	2010.6	2103.2
30°	1975.4	1968.0	1915.1	1896.4	1867.4	1815.7	1837.9	1870.8	1873.7	1925.4	2022.5
32.5°	1934.5	1915.7	1857.2	1829.9	1793.6	1733.3	1745.3	1778.8	1783.3	1835.6	1935.6
35°	1881.6	1869.1	1797.0	1750.4	1714.6	1648.7	1661.2	1684.5	1691.3	1742.4	1844.1
37.5°	1831.6	1811.7	1735.1	1678.2	1632.2	1562.9	1566.3	1590.2	1597.0	1648.7	1749.3
40°	1779.9	1751.5	1669.1	1602.7	1549.8	1477.1	1473.1	1498.1	1503.3	1553.8	1644.7
42.5°	1724.8	1690.7	1598.1	1525.4	1464.6	1390.8	1382.8	1404.4	1410.1	1459.5	1548.7
45°	1669.1	1628.2	1525.4	1445.9	1379.4	1303.8	1295.9	1312.4	1320.9	1367.5	1453.3
47.5°	1610.1	1562.3	1450.4	1361.8	1293.1	1217.5	1207.8	1224.3	1231.1	1277.1	1358.4
50°	1548.1	1490.2	1373.2	1275.4	1207.3	1132.8	1118.6	1138.0	1144.2	1187.4	1266.9
52.5°	1480.0	1415.8	1290.8	1188.5	1120.3	1049.3	1032.3	1051.0	1058.4	1100.5	1173.7
55°	1407.8	1338.5	1207.8	1108.4	1034.6	965.2	951.0	958.4	974.3	1014.1	1082.3
57.5°	1326.6	1257.8	1120.3	1019.2	948.2	881.7	869.8	876.6	891.4	930.0	991.4
60°	1240.2	1167.5	1031.1	930.0	861.3	798.2	787.4	793.7	809.6	844.8	901.6
62.5°	1155.0	1073.2	939.1	838.6	776.1	717.5	714.7	712.4	727.2	761.3	811.3
65°	1051.6	973.2	843.1	747.7	690.8	638.0	626.6	631.8	646.0	677.2	729.5
67.5°	940.8	869.8	744.8	656.8	606.2	559.0	549.4	551.6	566.4	593.7	639.1
70°	823.2	760.7	644.3	565.3	522.7	478.4	472.1	472.7	486.9	510.7	550.5
72.5°	699.9	643.7	542.6	475.0	439.7	407.9	402.2	395.4	408.5	428.9	463.0
75°	574.4	524.9	441.4	386.3	358.5	331.8	326.7	319.9	332.9	350.5	377.2
77.5°	447.7	407.9	343.1	300.5	278.9	259.1	254.5	247.1	260.2	273.3	294.3
80°	323.8	294.9	256.2	211.3	204.0	190.9	186.3	178.4	190.9	199.4	215.3
82.5°	209.1	189.8	167.6	136.3	135.2	125.6	123.3	114.2	125.6	130.7	142.6
85°	105.7	96.6	90.9	69.3	71.6	65.3	64.8	55.1	64.2	66.5	73.3
87.5°	30.1	31.8	28.4	17.0	21.6	20.5	20.5	14.8	20.5	20.5	23.3
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: P837735

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2STD-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5	2435.5
2.5°	2437.8	2447.5	2449.8	2449.2	2455.4	2489.5	2478.2	2489.5
5°	2443.5	2465.1	2470.8	2478.7	2489.0	2527.6	2515.1	2528.7
7.5°	2446.9	2479.3	2491.8	2507.1	2523.6	2566.8	2556.6	2570.2
10°	2446.9	2489.0	2507.1	2532.7	2554.9	2604.8	2595.2	2611.1
12.5°	2436.7	2490.7	2516.2	2552.0	2580.4	2634.4	2630.4	2641.8
15°	2415.7	2482.1	2517.4	2563.4	2598.6	2658.8	2657.1	2670.8
17.5°	2387.3	2467.4	2510.0	2567.9	2612.2	2679.8	2683.8	2691.2
20°	2351.5	2439.5	2495.2	2566.2	2621.9	2696.3	2701.4	2711.7
22.5°	2304.3	2406.0	2473.0	2558.8	2623.0	2703.1	2712.2	2721.9
25°	2248.6	2365.7	2444.1	2544.6	2617.3	2702.6	2715.1	2723.6
27.5°	2185.0	2313.4	2407.1	2521.9	2601.4	2693.5	2708.8	2719.0
30°	2111.1	2257.7	2365.1	2492.4	2579.9	2676.4	2692.9	2703.1
32.5°	2035.0	2196.4	2315.1	2454.3	2548.6	2649.2	2663.4	2671.3
35°	1952.1	2121.9	2254.9	2405.4	2508.3	2605.4	2616.2	2624.7
37.5°	1861.7	2041.3	2186.1	2350.3	2451.5	2544.6	2554.3	2563.9
40°	1768.6	1956.6	2108.9	2282.7	2383.8	2470.2	2480.4	2487.2
42.5°	1674.8	1862.9	2026.5	2203.2	2303.7	2386.7	2392.9	2399.8
45°	1580.0	1765.7	1933.9	2115.1	2214.5	2292.4	2294.7	2300.3
47.5°	1483.4	1665.2	1832.2	2014.6	2112.9	2183.9	2186.1	2190.7
50°	1386.2	1564.6	1723.7	1906.1	2002.1	2077.1	2066.8	2071.4
52.5°	1290.8	1458.9	1621.4	1789.0	1883.9	1950.4	1953.2	1944.1
55°	1197.0	1355.5	1505.0	1666.3	1756.6	1808.3	1806.6	1810.0
57.5°	1102.2	1251.0	1387.9	1535.6	1623.7	1672.6	1682.8	1670.9
60°	1005.6	1145.3	1268.1	1401.6	1486.8	1527.7	1539.6	1528.3
62.5°	909.6	1038.0	1149.3	1265.8	1344.8	1395.3	1394.2	1381.7
65°	813.6	930.0	1029.4	1128.3	1197.0	1247.6	1245.3	1234.0
67.5°	724.9	820.9	910.1	990.2	1049.9	1084.5	1096.5	1082.8
70°	627.2	710.2	788.6	852.8	902.2	933.4	944.8	932.9
72.5°	529.5	599.9	655.0	717.0	755.0	781.2	793.1	781.7
75°	432.9	490.9	535.7	584.0	610.7	632.9	646.5	635.2
77.5°	339.2	384.1	419.8	455.1	485.7	490.9	502.8	495.4
80°	250.0	282.4	308.5	331.8	353.9	356.2	365.9	361.3
82.5°	166.5	188.0	194.9	219.3	233.5	231.2	240.9	237.5
85°	88.1	101.1	113.1	120.4	128.4	121.0	129.5	126.1
87.5°	29.5	31.2	27.3	38.6	42.6	36.4	41.5	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)