

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: P837781

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2HI-27-120-EDD-90**

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: P837781
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-LD4-2HI-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

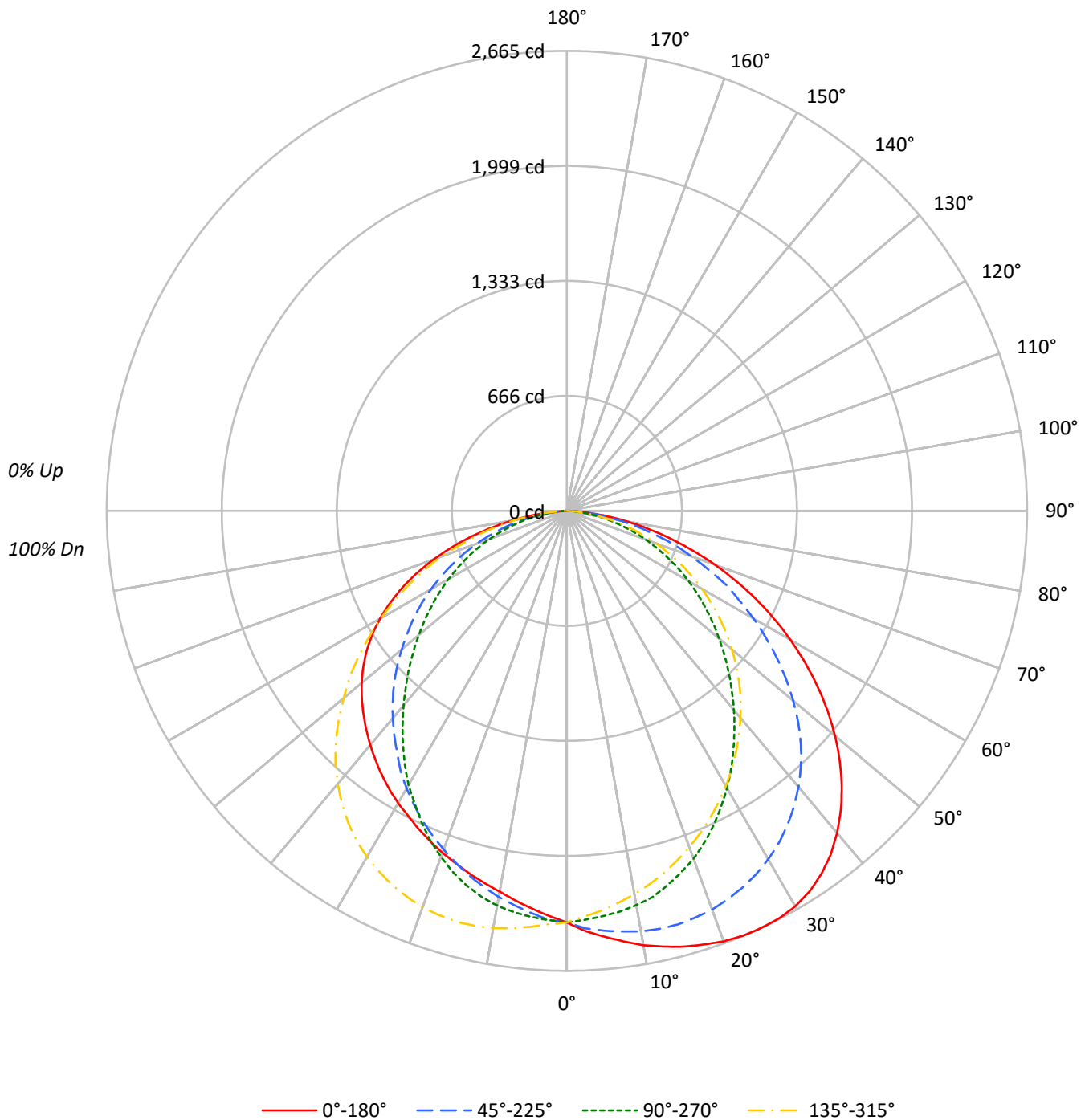
Lumens per Lamp: N/A
Luminaire Lumens: 6992.9 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	6414	6414	6414	6414
5°	6685	6368	6248	6378
10°	6982	6335	6121	6344
15°	7282	6255	6061	6256
20°	7599	6141	6034	6106
25°	7914	5969	6034	5908
30°	8220	5762	6074	5697
35°	8438	5525	6135	5437
40°	8551	5287	6221	5168
45°	8567	5046	6341	4920
50°	8486	4816	6496	4688
55°	8311	4601	6641	4473
60°	8049	4378	6730	4264
65°	7689	4121	6695	4025
70°	7183	3819	6456	3749
75°	6463	3405	5925	3387
80°	5480	2851	4981	2895
85°	3810	1890	3159	1939

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	3.2
10°-20°	655.3	9.4
20°-30°	1004.3	14.4
30°-40°	1221.1	17.5
40°-50°	1269.4	18.2
50°-60°	1146.7	16.4
60°-70°	871.8	12.5
70°-80°	486.0	7.0
80°-90°	111.9	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°	1885.9	27.0
0°-40°	3107.0	44.4
0°-60°	5523.2	79.0
0°-90°	6992.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6992.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2384	2384	2384	2384	2384	
5°	2475	2357	2313	2361	2475	239
15°	2614	2245	2176	2246	2614	741
25°	2665	2010	2032	1990	2665	1231
35°	2569	1682	1868	1655	2569	1604
45°	2251	1326	1666	1293	2251	1733
55°	1771	981	1416	954	1771	1581
65°	1208	647	1051	632	1208	1193
75°	622	328	570	326	622	660
85°	123	61	102	63	123	155
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°	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5
2.5°	2436.3	2400.7	2401.3	2432.4	2408.5	2420.2	2386.8	2399.6	2395.7	2398.5	2371.3
5°	2474.7	2436.3	2435.8	2462.4	2435.8	2440.8	2398.5	2406.9	2394.6	2386.8	2357.4
7.5°	2515.3	2476.9	2473.0	2496.4	2461.3	2457.4	2410.7	2410.7	2388.5	2369.0	2341.2
10°	2555.3	2515.8	2510.8	2528.6	2485.2	2472.5	2415.7	2406.9	2377.4	2348.5	2318.4
12.5°	2585.3	2545.3	2541.4	2552.5	2503.6	2480.2	2415.7	2398.5	2355.1	2314.6	2291.2
15°	2613.7	2572.5	2562.0	2567.5	2511.4	2480.2	2408.0	2381.3	2325.7	2272.3	2245.1
17.5°	2633.7	2594.2	2583.7	2583.1	2515.3	2470.8	2391.3	2354.6	2287.9	2223.4	2196.1
20°	2653.7	2614.2	2600.9	2590.9	2514.2	2458.0	2366.8	2317.3	2239.5	2167.2	2144.4
22.5°	2663.7	2623.1	2608.7	2593.7	2506.9	2434.7	2336.8	2274.0	2185.0	2098.8	2079.9
25°	2665.4	2623.7	2608.1	2586.4	2492.5	2406.9	2297.9	2221.7	2122.2	2026.6	2010.4
27.5°	2660.9	2615.3	2599.8	2573.6	2470.8	2372.9	2251.7	2162.2	2055.5	1949.8	1932.6
30°	2645.4	2599.2	2584.2	2550.3	2440.2	2331.2	2201.1	2096.1	1981.5	1869.2	1854.2
32.5°	2614.2	2569.2	2557.0	2523.1	2406.9	2282.9	2142.2	2024.9	1899.8	1792.5	1770.3
35°	2568.6	2523.6	2515.8	2480.2	2360.1	2225.0	2077.7	1947.1	1813.1	1703.5	1681.8
37.5°	2509.2	2471.3	2459.7	2424.6	2305.1	2159.4	2003.8	1862.5	1724.7	1606.8	1593.4
40°	2434.1	2398.5	2389.6	2358.5	2241.2	2086.6	1923.7	1775.3	1633.5	1523.9	1505.0
42.5°	2348.5	2315.1	2310.1	2277.9	2162.2	2006.0	1837.0	1684.6	1538.4	1432.8	1413.9
45°	2251.2	2218.9	2217.8	2187.2	2076.0	1916.5	1745.8	1592.9	1445.6	1336.0	1326.0
47.5°	2143.9	2115.0	2115.0	2086.6	1979.9	1818.1	1651.8	1497.3	1352.2	1255.4	1237.6
50°	2027.1	1999.9	1991.5	1977.6	1873.7	1710.8	1552.9	1403.9	1259.9	1167.6	1150.3
52.5°	1902.6	1879.2	1884.8	1859.2	1758.6	1599.0	1452.8	1298.8	1167.0	1083.1	1065.8
55°	1771.4	1738.0	1743.0	1733.6	1638.5	1483.9	1340.5	1212.0	1075.8	996.9	980.8
57.5°	1635.1	1591.8	1609.6	1604.0	1510.6	1366.1	1237.6	1113.6	985.2	912.4	896.8
60°	1495.6	1453.9	1472.2	1467.2	1379.4	1248.2	1131.4	1016.3	895.1	829.0	813.4
62.5°	1352.2	1313.8	1330.5	1326.6	1246.0	1127.5	1025.8	920.2	804.5	745.0	730.6
65°	1207.6	1170.9	1185.9	1183.1	1108.6	1018.6	917.4	820.6	713.3	661.6	647.2
67.5°	1059.7	1025.8	1039.7	1039.7	971.3	885.1	808.4	720.0	623.8	579.3	566.0
70°	912.9	881.2	893.5	892.4	834.5	764.5	698.3	619.4	533.2	496.5	485.4
72.5°	765.0	737.2	748.4	747.2	698.9	653.8	588.2	519.8	444.8	415.3	405.3
75°	621.6	595.5	606.0	604.9	565.4	523.2	479.3	422.5	358.1	337.5	327.5
77.5°	484.8	458.1	467.0	467.0	438.1	407.5	372.5	328.6	283.0	260.8	253.5
80°	353.6	340.8	336.4	336.9	317.5	297.5	279.7	237.4	204.0	189.0	184.0
82.5°	232.4	221.8	217.4	218.5	207.4	195.2	184.0	154.6	132.3	123.4	120.6
85°	123.4	115.6	111.8	114.5	112.3	105.6	100.1	80.1	66.2	62.8	61.2
87.5°	38.9	33.9	31.1	41.1	35.0	31.1	30.0	23.9	18.3	18.3	17.8
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°	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5
2.5°	2380.2	2380.2	2358.5	2353.5	2351.3	2354.0	2332.3	2328.5	2359.6	2349.0	2325.1
5°	2361.3	2360.1	2329.6	2324.0	2324.0	2320.7	2296.2	2290.7	2321.8	2312.9	2286.8
7.5°	2337.9	2334.6	2298.4	2294.5	2289.0	2286.8	2259.5	2255.6	2282.3	2276.8	2252.3
10°	2309.6	2306.2	2263.4	2260.6	2254.5	2250.1	2224.5	2221.7	2249.0	2240.1	2220.6
12.5°	2272.3	2266.2	2222.3	2219.5	2214.5	2212.8	2187.8	2186.7	2216.7	2207.8	2187.2
15°	2223.4	2218.4	2169.4	2170.6	2171.1	2171.1	2151.1	2150.0	2179.5	2175.6	2153.3
17.5°	2169.4	2162.8	2116.1	2119.4	2123.3	2127.7	2112.2	2115.0	2146.1	2141.1	2121.1
20°	2108.3	2101.6	2056.0	2065.5	2073.8	2082.7	2072.7	2080.5	2109.4	2107.2	2092.2
22.5°	2039.9	2033.2	1991.0	2005.4	2019.3	2036.0	2031.6	2040.5	2071.0	2070.5	2057.1
25°	1956.5	1958.2	1920.9	1938.7	1962.1	1985.4	1987.1	2001.5	2035.5	2032.1	2019.9
27.5°	1878.7	1880.9	1841.4	1871.4	1902.6	1932.6	1939.8	1959.8	1994.3	1991.5	1981.0
30°	1796.9	1799.7	1761.4	1802.5	1840.3	1877.0	1892.6	1919.8	1954.8	1954.8	1943.7
32.5°	1711.9	1716.9	1676.8	1731.9	1775.8	1818.6	1845.9	1874.2	1914.3	1913.1	1903.7
35°	1624.6	1630.1	1593.4	1663.5	1707.4	1759.7	1793.6	1831.4	1867.0	1867.5	1860.3
37.5°	1535.6	1542.3	1508.9	1585.7	1635.7	1697.4	1740.8	1778.6	1818.1	1820.3	1813.6
40°	1447.2	1454.5	1425.5	1499.5	1562.9	1631.8	1681.8	1726.3	1769.7	1770.8	1766.4
42.5°	1358.8	1366.6	1344.9	1417.2	1488.9	1562.9	1621.8	1672.4	1716.9	1719.7	1714.7
45°	1272.6	1279.3	1263.7	1342.7	1411.6	1492.3	1560.1	1617.4	1662.4	1666.3	1664.6
47.5°	1187.0	1193.1	1179.2	1251.5	1331.0	1416.6	1495.0	1558.4	1606.2	1610.7	1609.6
50°	1103.1	1108.1	1093.1	1168.7	1247.6	1338.8	1420.5	1493.9	1547.3	1551.7	1551.2
52.5°	1019.7	1024.7	1011.9	1091.4	1163.1	1259.3	1348.3	1427.8	1480.6	1487.3	1488.4
55°	939.1	941.3	931.3	1007.4	1076.9	1177.6	1279.9	1357.2	1410.0	1415.5	1418.9
57.5°	858.4	859.0	850.7	923.5	990.2	1093.1	1200.4	1281.5	1331.6	1337.1	1342.1
60°	778.4	777.8	768.4	839.0	902.9	1004.7	1116.4	1197.0	1245.4	1250.4	1257.1
62.5°	698.9	697.2	688.9	753.9	814.0	914.6	1026.9	1104.7	1150.9	1154.2	1163.1
65°	619.9	618.3	610.5	670.5	725.0	821.2	931.3	1005.2	1046.9	1051.4	1049.7
67.5°	542.1	538.7	532.6	586.6	636.0	725.0	830.6	901.2	935.7	939.6	950.2
70°	464.2	460.4	446.5	503.7	547.1	626.6	725.0	787.8	816.7	820.6	819.0
72.5°	387.5	383.6	368.6	421.4	458.1	527.6	615.5	667.7	692.8	696.1	696.1
75°	313.0	310.8	301.3	341.4	372.0	428.7	503.2	546.5	566.0	569.9	568.8
77.5°	241.3	239.6	230.2	264.6	288.6	330.8	390.9	424.8	439.2	443.7	453.1
80°	172.9	172.4	157.3	191.3	201.8	237.4	281.3	307.5	315.2	321.4	328.0
82.5°	110.6	111.2	96.2	125.1	129.5	152.3	179.6	195.7	201.3	206.3	211.3
85°	53.9	56.2	47.8	66.2	66.7	78.4	90.1	96.2	98.4	102.3	106.7
87.5°	13.9	16.1	8.9	18.9	16.7	21.7	25.0	26.7	26.1	28.9	30.6
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°	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5
2.5°	2332.9	2350.7	2341.8	2370.7	2381.8	2364.0	2395.2	2395.7	2373.5	2399.6	2414.1
5°	2296.8	2315.1	2309.6	2339.6	2353.5	2337.9	2375.7	2382.9	2361.3	2390.7	2414.1
7.5°	2260.1	2281.8	2274.5	2305.1	2321.8	2309.6	2350.1	2361.8	2345.1	2377.4	2408.5
10°	2228.4	2246.7	2238.9	2271.2	2285.6	2275.6	2315.7	2337.4	2321.8	2361.3	2398.5
12.5°	2197.2	2212.3	2203.4	2230.0	2243.9	2231.2	2280.1	2300.1	2289.0	2330.1	2377.9
15°	2157.2	2173.9	2161.7	2185.6	2196.1	2185.0	2225.0	2259.5	2245.6	2290.7	2343.5
17.5°	2126.6	2136.1	2119.4	2138.3	2144.4	2129.4	2170.0	2203.9	2193.9	2242.8	2304.0
20°	2092.7	2100.5	2077.2	2087.7	2087.2	2068.3	2105.5	2138.9	2132.2	2186.1	2255.6
22.5°	2054.9	2058.8	2031.6	2033.8	2032.7	2001.5	2034.9	2068.8	2066.0	2120.5	2198.4
25°	2014.9	2015.4	1980.4	1979.3	1967.1	1930.4	1959.8	1998.2	1989.9	2048.8	2130.5
27.5°	1975.4	1969.8	1927.6	1917.6	1898.1	1854.2	1880.3	1914.8	1909.8	1967.6	2058.2
30°	1933.2	1925.9	1874.2	1855.9	1827.5	1776.9	1798.6	1830.9	1833.6	1884.2	1979.3
32.5°	1893.1	1874.8	1817.5	1790.8	1755.2	1696.3	1708.0	1740.8	1745.2	1796.4	1894.2
35°	1841.4	1829.2	1758.6	1713.0	1678.0	1613.5	1625.7	1648.5	1655.2	1705.2	1804.7
37.5°	1792.5	1773.0	1698.0	1642.4	1597.3	1529.5	1532.8	1556.2	1562.9	1613.5	1711.9
40°	1741.9	1714.1	1633.5	1568.4	1516.7	1445.6	1441.7	1466.1	1471.1	1520.6	1609.6
42.5°	1688.0	1654.6	1564.0	1492.8	1433.3	1361.0	1353.3	1374.4	1380.0	1428.3	1515.6
45°	1633.5	1593.4	1492.8	1415.0	1349.9	1276.0	1268.2	1284.3	1292.7	1338.3	1422.2
47.5°	1575.7	1529.0	1419.4	1332.7	1265.4	1191.5	1182.0	1198.1	1204.8	1249.9	1329.4
50°	1515.1	1458.3	1343.8	1248.2	1181.5	1108.6	1094.7	1113.6	1119.8	1162.0	1239.8
52.5°	1448.3	1385.5	1263.2	1163.1	1096.4	1026.9	1010.2	1028.6	1035.8	1076.9	1148.7
55°	1377.7	1309.9	1182.0	1084.7	1012.4	944.6	930.7	937.9	953.5	992.4	1059.1
57.5°	1298.2	1230.9	1096.4	997.4	927.9	862.9	851.2	857.9	872.3	910.1	970.2
60°	1213.7	1142.5	1009.1	910.1	842.9	781.2	770.6	776.7	792.3	826.7	882.3
62.5°	1130.3	1050.3	919.0	820.6	759.5	702.2	699.4	697.2	711.7	745.0	793.9
65°	1029.1	952.4	825.1	731.7	676.1	624.4	613.2	618.3	632.2	662.7	713.9
67.5°	920.7	851.2	728.9	642.7	593.2	547.1	537.6	539.9	554.3	581.0	625.5
70°	805.6	744.5	630.5	553.2	511.5	468.1	462.0	462.6	476.5	499.8	538.7
72.5°	685.0	629.9	531.0	464.8	430.3	399.2	393.6	387.0	399.8	419.8	453.1
75°	562.1	513.7	432.0	378.1	350.8	324.7	319.7	313.0	325.8	343.0	369.2
77.5°	438.1	399.2	335.8	294.1	273.0	253.5	249.1	241.9	254.6	267.4	288.0
80°	316.9	288.6	250.7	206.8	199.6	186.8	182.4	174.6	186.8	195.2	210.7
82.5°	204.6	185.7	164.0	133.4	132.3	122.9	120.6	111.8	122.9	127.9	139.6
85°	103.4	94.5	89.0	67.8	70.1	63.9	63.4	53.9	62.8	65.1	71.7
87.5°	29.5	31.1	27.8	16.7	21.1	20.0	20.0	14.5	20.0	20.0	22.8
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: P837781

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2HI-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5	2383.5
2.5°	2385.7	2395.2	2397.4	2396.8	2403.0	2436.3	2425.2	2436.3
5°	2391.3	2412.4	2418.0	2425.8	2435.8	2473.6	2461.3	2474.7
7.5°	2394.6	2426.3	2438.5	2453.6	2469.7	2511.9	2501.9	2515.3
10°	2394.6	2435.8	2453.6	2478.6	2500.3	2549.2	2539.7	2555.3
12.5°	2384.6	2437.4	2462.4	2497.5	2525.3	2578.1	2574.2	2585.3
15°	2364.0	2429.1	2463.6	2508.6	2543.1	2602.0	2600.3	2613.7
17.5°	2336.2	2414.6	2456.3	2513.0	2556.4	2622.6	2626.5	2633.7
20°	2301.2	2387.4	2441.9	2511.4	2565.9	2638.7	2643.7	2653.7
22.5°	2255.1	2354.6	2420.2	2504.1	2567.0	2645.4	2654.3	2663.7
25°	2200.6	2315.1	2391.8	2490.2	2561.4	2644.8	2657.0	2665.4
27.5°	2138.3	2264.0	2355.7	2468.0	2545.8	2635.9	2650.9	2660.9
30°	2066.0	2209.5	2314.6	2439.1	2524.7	2619.2	2635.4	2645.4
32.5°	1991.5	2149.4	2265.6	2401.8	2494.1	2592.5	2606.4	2614.2
35°	1910.4	2076.6	2206.7	2354.0	2454.7	2549.7	2560.3	2568.6
37.5°	1822.0	1997.6	2139.4	2300.1	2399.1	2490.2	2499.7	2509.2
40°	1730.8	1914.8	2063.8	2233.9	2332.9	2417.4	2427.4	2434.1
42.5°	1639.0	1823.1	1983.2	2156.1	2254.5	2335.7	2341.8	2348.5
45°	1546.2	1728.0	1892.6	2069.9	2167.2	2243.4	2245.6	2251.2
47.5°	1451.7	1629.6	1793.0	1971.5	2067.7	2137.2	2139.4	2143.9
50°	1356.6	1531.2	1686.9	1865.3	1959.3	2032.7	2022.7	2027.1
52.5°	1263.2	1427.8	1586.8	1750.8	1843.6	1908.7	1911.5	1902.6
55°	1171.5	1326.6	1472.8	1630.7	1719.1	1769.7	1768.0	1771.4
57.5°	1078.6	1224.3	1358.3	1502.8	1589.0	1636.8	1646.8	1635.1
60°	984.1	1120.9	1241.0	1371.6	1455.0	1495.0	1506.7	1495.6
62.5°	890.1	1015.8	1124.8	1238.7	1316.0	1365.5	1364.4	1352.2
65°	796.2	910.1	1007.4	1104.2	1171.5	1220.9	1218.7	1207.6
67.5°	709.4	803.4	890.7	969.1	1027.5	1061.4	1073.0	1059.7
70°	613.8	695.0	771.7	834.5	882.9	913.5	924.6	912.9
72.5°	518.2	587.1	641.0	701.7	738.9	764.5	776.2	765.0
75°	423.7	480.4	524.3	571.6	597.7	619.4	632.7	621.6
77.5°	331.9	375.8	410.9	445.3	475.4	480.4	492.0	484.8
80°	244.6	276.3	301.9	324.7	346.4	348.6	358.1	353.6
82.5°	162.9	184.0	190.7	214.6	228.5	226.3	235.7	232.4
85°	86.2	99.0	110.6	117.9	125.7	118.4	126.8	123.4
87.5°	28.9	30.6	26.7	37.8	41.7	35.6	40.6	38.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)