

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: P838239

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-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: P838239
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-LD4-2STD-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

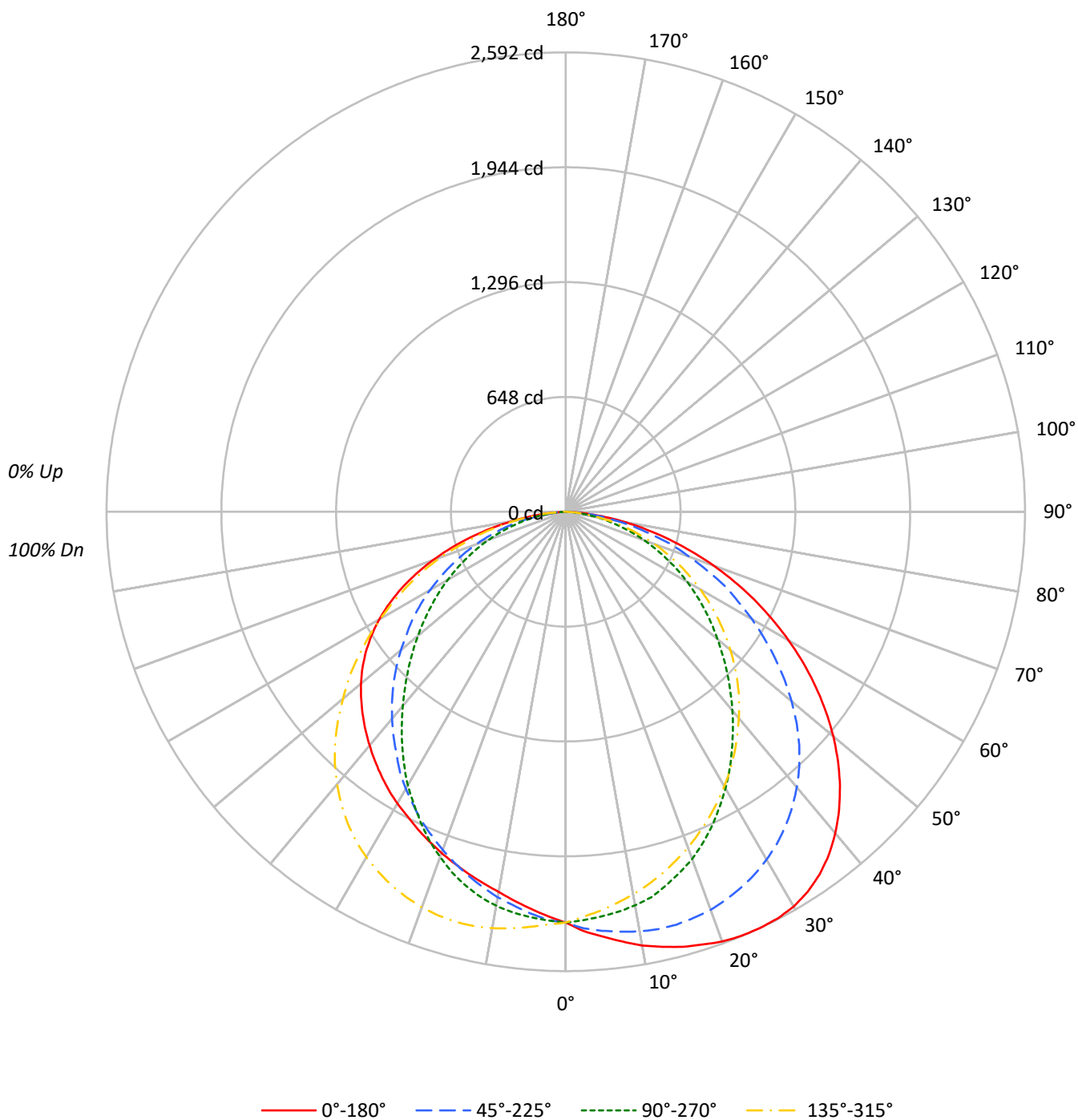
Lumens per Lamp: N/A
Luminaire Lumens: 6800.2 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P838239

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838239

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-EDD-90

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°	3119	3119	3119	3119
5°	3250	3096	3038	3101
10°	3395	3080	2976	3085
15°	3540	3041	2947	3042
20°	3695	2986	2934	2969
25°	3848	2902	2934	2873
30°	3997	2801	2953	2770
35°	4103	2686	2983	2644
40°	4157	2571	3025	2513
45°	4165	2454	3083	2392
50°	4126	2341	3159	2279
55°	4041	2237	3229	2175
60°	3914	2129	3272	2073
65°	3739	2004	3255	1957
70°	3493	1857	3139	1823
75°	3143	1656	2881	1647
80°	2665	1387	2421	1408
85°	1853	919	1536	943



TEST NUMBER: P838239

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.2
10°-20°	637.2	9.4
20°-30°	976.6	14.4
30°-40°	1187.5	17.5
40°-50°	1234.5	18.2
50°-60°	1115.1	16.4
60°-70°	847.8	12.5
70°-80°	472.6	7.0
80°-90°	108.8	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°	1833.9	27.0
0°-40°	3021.4	44.4
0°-60°	5371.0	79.0
0°-90°	6800.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6800.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2318	2318	2318	2318	2318	
5°	2406	2292	2249	2296	2406	232
15°	2542	2183	2116	2184	2542	721
25°	2592	1955	1976	1935	2592	1197
35°	2498	1636	1816	1610	2498	1560
45°	2189	1290	1620	1257	2189	1685
55°	1723	954	1376	927	1723	1538
65°	1174	629	1022	615	1174	1160
75°	604	318	554	317	604	642
85°	120	60	100	61	120	151
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838239

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8
2.5°	2369.2	2334.6	2335.1	2365.4	2342.2	2353.5	2321.1	2333.5	2329.7	2332.4	2305.9
5°	2406.5	2369.2	2368.6	2394.6	2368.6	2373.5	2332.4	2340.5	2328.6	2321.1	2292.4
7.5°	2446.0	2408.7	2404.9	2427.6	2393.5	2389.7	2344.3	2344.3	2322.7	2303.8	2276.7
10°	2484.9	2446.5	2441.6	2458.9	2416.8	2404.3	2349.2	2340.5	2311.9	2283.8	2254.6
12.5°	2514.1	2475.2	2471.4	2482.2	2434.6	2411.9	2349.2	2332.4	2290.3	2250.8	2228.1
15°	2541.7	2501.7	2491.4	2496.8	2442.2	2411.9	2341.6	2315.7	2261.6	2209.7	2183.2
17.5°	2561.1	2522.7	2512.5	2511.9	2446.0	2402.7	2325.4	2289.7	2224.8	2162.1	2135.6
20°	2580.6	2542.2	2529.2	2519.5	2444.9	2390.3	2301.6	2253.5	2177.8	2107.5	2085.3
22.5°	2590.3	2550.9	2536.8	2522.2	2437.9	2367.6	2272.4	2211.3	2124.8	2041.0	2022.6
25°	2591.9	2551.4	2536.3	2515.2	2423.8	2340.5	2234.6	2160.5	2063.7	1970.7	1955.0
27.5°	2587.6	2543.3	2528.1	2502.7	2402.7	2307.6	2189.7	2102.6	1998.8	1896.1	1879.3
30°	2572.5	2527.6	2513.0	2480.0	2373.0	2267.0	2140.5	2038.3	1926.9	1817.7	1803.1
32.5°	2542.2	2498.4	2486.5	2453.5	2340.5	2220.0	2083.2	1969.1	1847.4	1743.1	1721.5
35°	2497.9	2454.1	2446.5	2411.9	2295.1	2163.7	2020.5	1893.4	1763.1	1656.6	1635.5
37.5°	2440.0	2403.3	2391.9	2357.8	2241.6	2099.9	1948.6	1811.2	1677.1	1562.5	1549.5
40°	2367.0	2332.4	2323.8	2293.5	2179.4	2029.1	1870.7	1726.3	1588.5	1482.0	1463.6
42.5°	2283.8	2251.3	2246.5	2215.1	2102.6	1950.7	1786.4	1638.2	1496.0	1393.3	1374.9
45°	2189.1	2157.8	2156.7	2127.0	2018.8	1863.7	1697.7	1549.0	1405.7	1299.2	1289.5
47.5°	2084.8	2056.7	2056.7	2029.1	1925.3	1768.0	1606.3	1456.0	1314.9	1220.8	1203.5
50°	1971.3	1944.8	1936.7	1923.1	1822.0	1663.6	1510.1	1365.2	1225.1	1135.4	1118.6
52.5°	1850.2	1827.4	1832.8	1808.0	1710.1	1554.9	1412.8	1263.0	1134.9	1053.2	1036.5
55°	1722.6	1690.1	1695.0	1685.8	1593.3	1443.0	1303.5	1178.6	1046.2	969.4	953.7
57.5°	1590.1	1547.9	1565.2	1559.8	1469.0	1328.4	1203.5	1082.9	958.1	887.2	872.1
60°	1454.4	1413.8	1431.7	1426.8	1341.4	1213.8	1100.3	988.3	870.5	806.1	791.0
62.5°	1314.9	1277.6	1293.8	1290.0	1211.6	1096.5	997.5	894.8	782.3	724.5	710.4
65°	1174.3	1138.6	1153.2	1150.5	1078.1	990.5	892.1	798.0	693.7	643.4	629.3
67.5°	1030.5	997.5	1011.0	1011.0	944.5	860.7	786.1	700.2	606.6	563.4	550.4
70°	887.8	857.0	868.8	867.8	811.5	743.4	679.1	602.3	518.5	482.8	472.0
72.5°	744.0	716.9	727.7	726.7	679.6	635.8	572.0	505.5	432.5	403.9	394.1
75°	604.5	579.1	589.3	588.2	549.9	508.8	466.1	410.9	348.2	328.2	318.5
77.5°	471.5	445.5	454.2	454.2	426.0	396.3	362.2	319.5	275.2	253.6	246.5
80°	343.9	331.4	327.1	327.6	308.7	289.3	272.0	230.9	198.4	183.8	179.0
82.5°	226.0	215.7	211.4	212.5	201.7	189.8	179.0	150.3	128.7	120.0	117.3
85°	120.0	112.5	108.7	111.4	109.2	102.7	97.3	77.9	64.3	61.1	59.5
87.5°	37.8	33.0	30.3	40.0	34.1	30.3	29.2	23.2	17.8	17.8	17.3
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: P838239

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8
2.5°	2314.6	2314.6	2293.5	2288.6	2286.5	2289.2	2268.1	2264.3	2294.6	2284.3	2261.1
5°	2296.2	2295.1	2265.4	2260.0	2260.0	2256.7	2232.9	2227.5	2257.8	2249.2	2223.7
7.5°	2273.5	2270.2	2235.1	2231.3	2225.9	2223.7	2197.3	2193.5	2219.4	2214.0	2190.2
10°	2245.9	2242.7	2201.0	2198.3	2192.4	2188.1	2163.2	2160.5	2187.0	2178.3	2159.4
12.5°	2209.7	2203.7	2161.0	2158.3	2153.5	2151.8	2127.5	2126.4	2155.6	2147.0	2127.0
15°	2162.1	2157.2	2109.7	2110.8	2111.3	2111.3	2091.8	2090.7	2119.4	2115.6	2094.0
17.5°	2109.7	2103.2	2057.8	2061.0	2064.8	2069.1	2054.0	2056.7	2087.0	2082.1	2062.6
20°	2050.2	2043.7	1999.4	2008.6	2016.7	2025.3	2015.6	2023.2	2051.3	2049.1	2034.5
22.5°	1983.7	1977.2	1936.1	1950.2	1963.7	1979.9	1975.6	1984.2	2014.0	2013.4	2000.5
25°	1902.6	1904.2	1868.0	1885.3	1908.0	1930.7	1932.3	1946.4	1979.4	1976.1	1964.2
27.5°	1826.9	1829.1	1790.7	1819.9	1850.2	1879.3	1886.4	1905.8	1939.4	1936.7	1926.4
30°	1747.4	1750.1	1712.8	1752.8	1789.6	1825.3	1840.4	1866.9	1901.0	1901.0	1890.2
32.5°	1664.7	1669.6	1630.6	1684.2	1726.9	1768.5	1795.0	1822.6	1861.5	1860.4	1851.2
35°	1579.8	1585.2	1549.5	1617.7	1660.4	1711.2	1744.2	1780.9	1815.5	1816.1	1809.1
37.5°	1493.3	1499.8	1467.4	1542.0	1590.6	1650.6	1692.8	1729.6	1768.0	1770.1	1763.6
40°	1407.3	1414.4	1386.3	1458.2	1519.8	1586.8	1635.5	1678.8	1720.9	1722.0	1717.7
42.5°	1321.4	1329.0	1307.9	1378.2	1447.9	1519.8	1577.1	1626.3	1669.6	1672.3	1667.4
45°	1237.6	1244.1	1228.9	1305.7	1372.7	1451.1	1517.1	1572.8	1616.6	1620.4	1618.7
47.5°	1154.3	1160.3	1146.7	1217.0	1294.3	1377.6	1453.8	1515.5	1562.0	1566.3	1565.2
50°	1072.7	1077.5	1062.9	1136.5	1213.2	1301.9	1381.4	1452.8	1504.7	1509.0	1508.5
52.5°	991.6	996.4	984.0	1061.3	1131.1	1224.6	1311.1	1388.4	1439.8	1446.3	1447.4
55°	913.2	915.3	905.6	979.7	1047.3	1145.1	1244.6	1319.8	1371.1	1376.5	1379.8
57.5°	834.8	835.3	827.2	898.0	962.9	1062.9	1167.3	1246.2	1294.9	1300.3	1305.2
60°	756.9	756.4	747.2	815.9	878.0	977.0	1085.7	1164.0	1211.1	1216.0	1222.4
62.5°	679.6	678.0	669.9	733.1	791.5	889.4	998.6	1074.3	1119.2	1122.4	1131.1
65°	602.8	601.2	593.6	652.0	705.0	798.6	905.6	977.5	1018.1	1022.4	1020.8
67.5°	527.1	523.9	518.0	570.4	618.5	705.0	807.8	876.4	909.9	913.7	924.0
70°	451.5	447.7	434.2	489.8	532.0	609.3	705.0	766.1	794.2	798.0	796.4
72.5°	376.8	373.1	358.5	409.8	445.5	513.1	598.5	649.3	673.7	676.9	676.9
75°	304.4	302.2	293.0	332.0	361.7	416.9	489.3	531.5	550.4	554.2	553.1
77.5°	234.6	233.0	223.8	257.4	280.6	321.7	380.1	413.1	427.1	431.4	440.6
80°	168.1	167.6	153.0	186.0	196.3	230.9	273.6	299.0	306.6	312.5	319.0
82.5°	107.6	108.1	93.5	121.6	126.0	148.1	174.6	190.3	195.7	200.6	205.5
85°	52.4	54.6	46.5	64.3	64.9	76.2	87.6	93.5	95.7	99.5	103.8
87.5°	13.5	15.7	8.7	18.4	16.2	21.1	24.3	26.0	25.4	28.1	29.7
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: P838239

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8
2.5°	2268.6	2285.9	2277.3	2305.4	2316.2	2298.9	2329.2	2329.7	2308.1	2333.5	2347.6
5°	2233.5	2251.3	2245.9	2275.1	2288.6	2273.5	2310.3	2317.3	2296.2	2324.9	2347.6
7.5°	2197.8	2218.9	2211.9	2241.6	2257.8	2245.9	2285.4	2296.7	2280.5	2311.9	2342.2
10°	2167.0	2184.8	2177.3	2208.6	2222.7	2212.9	2251.9	2273.0	2257.8	2296.2	2332.4
12.5°	2136.7	2151.3	2142.7	2168.6	2182.1	2169.7	2217.3	2236.7	2225.9	2265.9	2312.4
15°	2097.8	2114.0	2102.1	2125.3	2135.6	2124.8	2163.7	2197.3	2183.7	2227.5	2278.9
17.5°	2068.0	2077.2	2061.0	2079.4	2085.3	2070.7	2110.2	2143.2	2133.5	2181.0	2240.5
20°	2035.1	2042.6	2019.9	2030.2	2029.7	2011.3	2047.5	2079.9	2073.4	2125.9	2193.5
22.5°	1998.3	2002.1	1975.6	1977.7	1976.7	1946.4	1978.8	2011.8	2009.1	2062.1	2137.8
25°	1959.4	1959.9	1925.8	1924.8	1912.9	1877.2	1905.8	1943.1	1935.0	1992.3	2071.8
27.5°	1921.0	1915.6	1874.5	1864.7	1845.8	1803.1	1828.5	1862.0	1857.2	1913.4	2001.5
30°	1879.9	1872.9	1822.6	1804.7	1777.2	1728.0	1749.0	1780.4	1783.1	1832.3	1924.8
32.5°	1841.0	1823.1	1767.4	1741.5	1706.9	1649.6	1660.9	1692.8	1697.1	1746.9	1842.0
35°	1790.7	1778.8	1710.1	1665.8	1631.7	1569.0	1580.9	1603.1	1609.6	1658.2	1755.0
37.5°	1743.1	1724.2	1651.2	1597.1	1553.3	1487.4	1490.6	1513.3	1519.8	1569.0	1664.7
40°	1693.9	1666.9	1588.5	1525.2	1474.9	1405.7	1401.9	1425.7	1430.6	1478.7	1565.2
42.5°	1641.5	1609.0	1520.9	1451.7	1393.8	1323.5	1316.0	1336.5	1341.9	1389.0	1473.8
45°	1588.5	1549.5	1451.7	1376.0	1312.7	1240.8	1233.3	1248.9	1257.0	1301.4	1383.0
47.5°	1532.2	1486.8	1380.3	1296.0	1230.6	1158.6	1149.5	1165.1	1171.6	1215.4	1292.7
50°	1473.3	1418.2	1306.8	1213.8	1148.9	1078.1	1064.6	1082.9	1088.9	1130.0	1205.7
52.5°	1408.4	1347.3	1228.4	1131.1	1066.2	998.6	982.4	1000.2	1007.3	1047.3	1117.0
55°	1339.8	1273.8	1149.5	1054.8	984.5	918.6	905.1	912.1	927.2	965.1	1030.0
57.5°	1262.4	1197.0	1066.2	970.0	902.4	839.1	827.8	834.2	848.3	885.1	943.5
60°	1180.3	1111.1	981.3	885.1	819.6	759.6	749.4	755.3	770.4	804.0	858.0
62.5°	1099.2	1021.3	893.7	798.0	738.5	682.9	680.2	678.0	692.0	724.5	772.1
65°	1000.8	926.2	802.3	711.5	657.4	607.2	596.4	601.2	614.7	644.5	694.2
67.5°	895.3	827.8	708.8	625.0	576.9	532.0	522.8	525.0	539.0	565.0	608.2
70°	783.4	723.9	613.1	538.0	497.4	455.2	449.3	449.8	463.3	486.1	523.9
72.5°	666.1	612.6	516.3	452.0	418.5	388.2	382.8	376.3	388.7	408.2	440.6
75°	546.6	499.6	420.1	367.7	341.2	315.7	310.9	304.4	316.8	333.6	359.0
77.5°	426.0	388.2	326.6	286.0	265.5	246.5	242.2	235.2	247.6	260.1	280.1
80°	308.2	280.6	243.8	201.1	194.1	181.7	177.3	169.8	181.7	189.8	204.9
82.5°	199.0	180.6	159.5	129.8	128.7	119.5	117.3	108.7	119.5	124.4	135.7
85°	100.6	91.9	86.5	66.0	68.1	62.2	61.6	52.4	61.1	63.3	69.7
87.5°	28.7	30.3	27.0	16.2	20.5	19.5	19.5	14.1	19.5	19.5	22.2
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: P838239

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8	2317.8
2.5°	2320.0	2329.2	2331.3	2330.8	2336.7	2369.2	2358.4	2369.2
5°	2325.4	2345.9	2351.3	2358.9	2368.6	2405.4	2393.5	2406.5
7.5°	2328.6	2359.5	2371.4	2385.9	2401.6	2442.7	2433.0	2446.0
10°	2328.6	2368.6	2385.9	2410.3	2431.4	2478.9	2469.8	2484.9
12.5°	2318.9	2370.3	2394.6	2428.7	2455.7	2507.1	2503.3	2514.1
15°	2298.9	2362.2	2395.7	2439.5	2473.0	2530.3	2528.7	2541.7
17.5°	2271.9	2348.1	2388.7	2443.8	2486.0	2550.3	2554.1	2561.1
20°	2237.8	2321.6	2374.6	2442.2	2495.2	2566.0	2570.9	2580.6
22.5°	2192.9	2289.7	2353.5	2435.1	2496.2	2572.5	2581.1	2590.3
25°	2139.9	2251.3	2325.9	2421.6	2490.8	2571.9	2583.8	2591.9
27.5°	2079.4	2201.6	2290.8	2400.0	2475.7	2563.3	2577.9	2587.6
30°	2009.1	2148.6	2250.8	2371.9	2455.2	2547.1	2562.7	2572.5
32.5°	1936.7	2090.2	2203.2	2335.7	2425.4	2521.1	2534.6	2542.2
35°	1857.7	2019.4	2145.9	2289.2	2387.0	2479.5	2489.8	2497.9
37.5°	1771.8	1942.6	2080.5	2236.7	2333.0	2421.6	2430.8	2440.0
40°	1683.1	1862.0	2006.9	2172.4	2268.6	2350.8	2360.5	2367.0
42.5°	1593.9	1772.8	1928.5	2096.7	2192.4	2271.3	2277.3	2283.8
45°	1503.6	1680.4	1840.4	2012.9	2107.5	2181.6	2183.7	2189.1
47.5°	1411.7	1584.7	1743.6	1917.2	2010.7	2078.3	2080.5	2084.8
50°	1319.2	1489.0	1640.4	1813.9	1905.3	1976.7	1966.9	1971.3
52.5°	1228.4	1388.4	1543.1	1702.5	1792.8	1856.1	1858.8	1850.2
55°	1139.2	1290.0	1432.2	1585.8	1671.7	1720.9	1719.3	1722.6
57.5°	1048.9	1190.5	1320.8	1461.4	1545.2	1591.7	1601.4	1590.1
60°	957.0	1090.0	1206.8	1333.8	1414.9	1453.8	1465.2	1454.4
62.5°	865.6	987.8	1093.8	1204.6	1279.8	1327.9	1326.8	1314.9
65°	774.2	885.1	979.7	1073.8	1139.2	1187.3	1185.1	1174.3
67.5°	689.9	781.3	866.1	942.4	999.1	1032.1	1043.5	1030.5
70°	596.9	675.8	750.4	811.5	858.6	888.3	899.1	887.8
72.5°	503.9	570.9	623.4	682.3	718.5	743.4	754.8	744.0
75°	412.0	467.1	509.8	555.8	581.2	602.3	615.3	604.5
77.5°	322.8	365.5	399.6	433.1	462.3	467.1	478.5	471.5
80°	237.9	268.7	293.6	315.7	336.8	339.0	348.2	343.9
82.5°	158.4	179.0	185.4	208.7	222.2	220.1	229.2	226.0
85°	83.8	96.2	107.6	114.6	122.2	115.2	123.3	120.0
87.5°	28.1	29.7	26.0	36.8	40.5	34.6	39.5	37.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)