

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: P838203

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-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: P838203
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-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

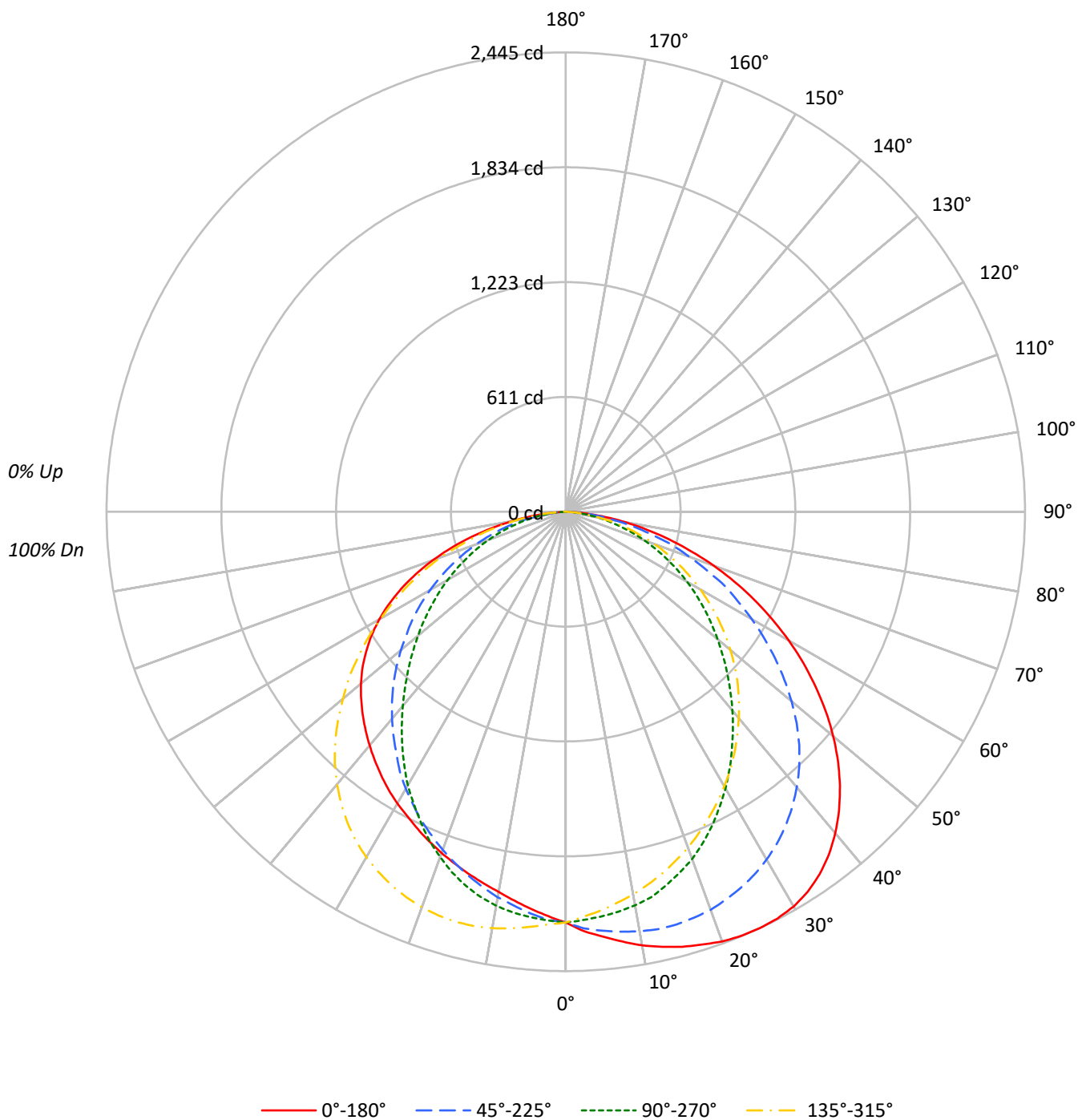
Lumens per Lamp: N/A
Luminaire Lumens: 6413.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P838203

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838203

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-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
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°	2941	2941	2941	2941
5°	3066	2920	2865	2925
10°	3202	2905	2807	2909
15°	3339	2868	2779	2869
20°	3485	2816	2767	2800
25°	3629	2738	2767	2710
30°	3770	2642	2786	2613
35°	3870	2534	2814	2494
40°	3921	2425	2853	2370
45°	3929	2314	2908	2256
50°	3892	2209	2979	2150
55°	3811	2110	3046	2052
60°	3691	2007	3086	1956
65°	3526	1890	3070	1846
70°	3294	1751	2961	1719
75°	2964	1562	2717	1553
80°	2513	1308	2283	1327
85°	1748	866	1448	889

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838203

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	3.2
10°-20°	601.0	9.4
20°-30°	921.1	14.4
30°-40°	1120.0	17.5
40°-50°	1164.3	18.2
50°-60°	1051.7	16.4
60°-70°	799.6	12.5
70°-80°	445.8	7.0
80°-90°	102.6	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°	1729.7	27.0
0°-40°	2849.7	44.4
0°-60°	5065.8	79.0
0°-90°	6413.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6413.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2186	2186	2186	2186	2186	
5°	2270	2162	2121	2166	2270	219
15°	2397	2059	1995	2060	2397	680
25°	2445	1844	1864	1825	2445	1129
35°	2356	1543	1713	1518	2356	1471
45°	2065	1216	1528	1186	2065	1590
55°	1625	900	1298	875	1625	1450
65°	1108	594	964	580	1108	1095
75°	570	300	523	299	570	606
85°	113	56	94	58	113	143
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838203

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1
2.5°	2234.6	2201.9	2202.4	2231.0	2209.1	2219.8	2189.2	2200.9	2197.3	2199.9	2174.9
5°	2269.8	2234.6	2234.1	2258.5	2234.1	2238.7	2199.9	2207.5	2196.3	2189.2	2162.2
7.5°	2307.0	2271.8	2268.2	2289.6	2257.5	2254.0	2211.1	2211.1	2190.7	2172.9	2147.4
10°	2343.7	2307.5	2302.9	2319.2	2279.5	2267.7	2215.7	2207.5	2180.5	2154.0	2126.5
12.5°	2371.2	2334.5	2331.0	2341.2	2296.3	2274.9	2215.7	2199.9	2160.1	2122.9	2101.5
15°	2397.2	2359.5	2349.8	2354.9	2303.4	2274.9	2208.6	2184.1	2133.1	2084.1	2059.2
17.5°	2415.6	2379.4	2369.7	2369.2	2307.0	2266.2	2193.3	2159.6	2098.4	2039.3	2014.3
20°	2434.0	2397.8	2385.5	2376.3	2306.0	2254.5	2170.8	2125.4	2054.1	1987.8	1966.9
22.5°	2443.1	2405.9	2392.7	2378.9	2299.3	2233.0	2143.3	2085.7	2004.1	1925.0	1907.7
25°	2444.7	2406.4	2392.1	2372.3	2286.1	2207.5	2107.6	2037.7	1946.5	1858.7	1844.0
27.5°	2440.6	2398.8	2384.5	2360.5	2266.2	2176.4	2065.3	1983.2	1885.3	1788.4	1772.6
30°	2426.3	2384.0	2370.2	2339.1	2238.1	2138.2	2018.9	1922.5	1817.4	1714.4	1700.7
32.5°	2397.8	2356.5	2345.2	2314.1	2207.5	2093.8	1964.8	1857.2	1742.5	1644.1	1623.7
35°	2355.9	2314.6	2307.5	2274.9	2164.7	2040.8	1905.7	1785.8	1662.9	1562.5	1542.6
37.5°	2301.4	2266.7	2256.0	2223.9	2114.2	1980.6	1837.8	1708.3	1581.8	1473.7	1461.5
40°	2232.5	2199.9	2191.7	2163.2	2055.6	1913.8	1764.4	1628.3	1498.2	1397.8	1380.4
42.5°	2154.0	2123.4	2118.8	2089.2	1983.2	1839.9	1684.9	1545.1	1411.0	1314.1	1296.8
45°	2064.8	2035.2	2034.2	2006.1	1904.1	1757.8	1601.2	1461.0	1325.9	1225.4	1216.2
47.5°	1966.3	1939.8	1939.8	1913.8	1815.9	1667.5	1515.0	1373.3	1240.2	1151.5	1135.1
50°	1859.3	1834.3	1826.6	1813.9	1718.5	1569.1	1424.3	1287.6	1155.5	1070.9	1055.1
52.5°	1745.0	1723.6	1728.7	1705.3	1613.0	1466.6	1332.5	1191.2	1070.4	993.4	977.6
55°	1624.7	1594.1	1598.7	1590.0	1502.8	1361.0	1229.5	1111.7	986.7	914.3	899.5
57.5°	1499.7	1460.0	1476.3	1471.2	1385.5	1252.9	1135.1	1021.4	903.6	836.8	822.5
60°	1371.7	1333.5	1350.3	1345.7	1265.2	1144.8	1037.7	932.2	821.0	760.3	746.0
62.5°	1240.2	1205.0	1220.3	1216.7	1142.8	1034.2	940.8	844.0	737.9	683.3	670.1
65°	1107.6	1073.9	1087.7	1085.2	1016.8	934.2	841.4	752.7	654.3	606.8	593.6
67.5°	972.0	940.8	953.6	953.6	890.9	811.8	741.5	660.4	572.2	531.4	519.1
70°	837.3	808.3	819.5	818.5	765.4	701.2	640.5	568.1	489.0	455.4	445.2
72.5°	701.7	676.2	686.4	685.4	641.0	599.7	539.5	476.8	408.0	380.9	371.7
75°	570.1	546.2	555.8	554.8	518.6	479.9	439.6	387.6	328.4	309.5	300.4
77.5°	444.7	420.2	428.4	428.4	401.8	373.8	341.7	301.4	259.6	239.2	232.5
80°	324.3	312.6	308.5	309.0	291.2	272.8	256.5	217.7	187.1	173.4	168.8
82.5°	213.2	203.5	199.4	200.4	190.2	179.0	168.8	141.8	121.4	113.2	110.7
85°	113.2	106.1	102.5	105.0	103.0	96.9	91.8	73.4	60.7	57.6	56.1
87.5°	35.7	31.1	28.6	37.7	32.1	28.6	27.5	21.9	16.8	16.8	16.3
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: P838203

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1
2.5°	2183.1	2183.1	2163.2	2158.6	2156.6	2159.1	2139.2	2135.6	2164.2	2154.5	2132.6
5°	2165.7	2164.7	2136.7	2131.6	2131.6	2128.5	2106.1	2101.0	2129.5	2121.4	2097.4
7.5°	2144.3	2141.3	2108.1	2104.5	2099.4	2097.4	2072.4	2068.8	2093.3	2088.2	2065.8
10°	2118.3	2115.2	2076.0	2073.4	2067.8	2063.7	2040.3	2037.7	2062.7	2054.6	2036.7
12.5°	2084.1	2078.5	2038.2	2035.7	2031.1	2029.6	2006.6	2005.6	2033.1	2025.0	2006.1
15°	2039.3	2034.7	1989.8	1990.8	1991.3	1991.3	1973.0	1972.0	1999.0	1995.4	1975.0
17.5°	1989.8	1983.7	1940.8	1943.9	1947.5	1951.6	1937.3	1939.8	1968.4	1963.8	1945.4
20°	1933.7	1927.6	1885.8	1894.4	1902.1	1910.3	1901.1	1908.2	1934.7	1932.7	1918.9
22.5°	1871.0	1864.9	1826.1	1839.4	1852.1	1867.4	1863.3	1871.5	1899.5	1899.0	1886.8
25°	1794.5	1796.0	1761.9	1778.2	1799.6	1821.0	1822.5	1835.8	1866.9	1863.8	1852.6
27.5°	1723.1	1725.1	1688.9	1716.5	1745.0	1772.6	1779.2	1797.6	1829.2	1826.6	1816.9
30°	1648.1	1650.7	1615.5	1653.2	1687.9	1721.6	1735.8	1760.8	1793.0	1793.0	1782.8
32.5°	1570.1	1574.7	1538.0	1588.5	1628.8	1668.0	1693.0	1719.0	1755.7	1754.7	1746.0
35°	1490.1	1495.2	1461.5	1525.8	1566.0	1614.0	1645.1	1679.8	1712.4	1712.9	1706.3
37.5°	1408.5	1414.6	1384.0	1454.4	1500.3	1556.9	1596.6	1631.3	1667.5	1669.6	1663.4
40°	1327.4	1334.0	1307.5	1375.3	1433.5	1496.7	1542.6	1583.4	1623.2	1624.2	1620.1
42.5°	1246.3	1253.4	1233.6	1299.8	1365.6	1433.5	1487.5	1533.9	1574.7	1577.3	1572.7
45°	1167.3	1173.4	1159.1	1231.5	1294.7	1368.7	1430.9	1483.4	1524.7	1528.3	1526.8
47.5°	1088.7	1094.3	1081.6	1147.9	1220.8	1299.3	1371.2	1429.4	1473.2	1477.3	1476.3
50°	1011.7	1016.3	1002.6	1071.9	1144.3	1227.9	1302.9	1370.2	1419.2	1423.3	1422.7
52.5°	935.2	939.8	928.1	1001.0	1066.8	1155.0	1236.6	1309.5	1358.0	1364.1	1365.1
55°	861.3	863.3	854.2	924.0	987.8	1080.1	1173.9	1244.8	1293.2	1298.3	1301.4
57.5°	787.4	787.9	780.2	847.0	908.2	1002.6	1101.0	1175.4	1221.3	1226.4	1231.0
60°	713.9	713.4	704.7	769.5	828.1	921.5	1024.0	1097.9	1142.3	1146.9	1153.0
62.5°	641.0	639.5	631.8	691.5	746.6	838.9	941.9	1013.3	1055.6	1058.6	1066.8
65°	568.6	567.1	559.9	615.0	665.0	753.2	854.2	922.0	960.2	964.3	962.8
67.5°	497.2	494.1	488.5	538.0	583.4	665.0	761.9	826.6	858.2	861.8	871.5
70°	425.8	422.2	409.5	462.0	501.8	574.7	665.0	722.6	749.1	752.7	751.1
72.5°	355.4	351.9	338.1	386.5	420.2	483.9	564.5	612.4	635.4	638.5	638.5
75°	287.1	285.1	276.4	313.1	341.2	393.2	461.5	501.3	519.1	522.7	521.7
77.5°	221.3	219.8	211.1	242.7	264.7	303.4	358.5	389.6	402.9	406.9	415.6
80°	158.6	158.1	144.3	175.4	185.1	217.7	258.0	282.0	289.1	294.7	300.9
82.5°	101.5	102.0	88.2	114.7	118.8	139.7	164.7	179.5	184.6	189.2	193.8
85°	49.5	51.5	43.9	60.7	61.2	71.9	82.6	88.2	90.3	93.8	97.9
87.5°	12.7	14.8	8.2	17.3	15.3	19.9	22.9	24.5	24.0	26.5	28.0
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: P838203

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1
2.5°	2139.7	2156.0	2147.9	2174.4	2184.6	2168.3	2196.8	2197.3	2177.0	2200.9	2214.2
5°	2106.6	2123.4	2118.3	2145.8	2158.6	2144.3	2179.0	2185.6	2165.7	2192.8	2214.2
7.5°	2072.9	2092.8	2086.2	2114.2	2129.5	2118.3	2155.5	2166.2	2150.9	2180.5	2209.1
10°	2043.9	2060.7	2053.5	2083.1	2096.4	2087.2	2123.9	2143.8	2129.5	2165.7	2199.9
12.5°	2015.3	2029.1	2020.9	2045.4	2058.1	2046.4	2091.3	2109.6	2099.4	2137.2	2181.0
15°	1978.6	1993.9	1982.7	2004.6	2014.3	2004.1	2040.8	2072.4	2059.7	2101.0	2149.4
17.5°	1950.5	1959.2	1943.9	1961.2	1966.9	1953.1	1990.3	2021.4	2012.2	2057.1	2113.2
20°	1919.4	1926.6	1905.2	1914.8	1914.3	1897.0	1931.2	1961.8	1955.6	2005.1	2068.8
22.5°	1884.8	1888.3	1863.3	1865.4	1864.4	1835.8	1866.4	1897.5	1895.0	1944.9	2016.3
25°	1848.0	1848.5	1816.4	1815.4	1804.2	1770.5	1797.6	1832.7	1825.1	1879.1	1954.1
27.5°	1811.8	1806.7	1768.0	1758.8	1740.9	1700.7	1724.6	1756.2	1751.7	1804.7	1887.8
30°	1773.1	1766.4	1719.0	1702.2	1676.2	1629.8	1649.7	1679.2	1681.8	1728.2	1815.4
32.5°	1736.4	1719.5	1667.0	1642.5	1609.9	1555.8	1566.5	1596.6	1600.7	1647.6	1737.4
35°	1688.9	1677.7	1613.0	1571.1	1539.0	1479.9	1491.1	1512.0	1518.1	1564.0	1655.3
37.5°	1644.1	1626.2	1557.4	1506.4	1465.1	1402.9	1405.9	1427.3	1433.5	1479.9	1570.1
40°	1597.7	1572.2	1498.2	1438.6	1391.1	1325.9	1322.3	1344.7	1349.3	1394.7	1476.3
42.5°	1548.2	1517.6	1434.5	1369.2	1314.6	1248.3	1241.2	1260.6	1265.7	1310.0	1390.1
45°	1498.2	1461.5	1369.2	1297.8	1238.1	1170.3	1163.2	1178.0	1185.6	1227.4	1304.4
47.5°	1445.2	1402.3	1301.9	1222.3	1160.6	1092.8	1084.1	1098.9	1105.0	1146.4	1219.3
50°	1389.6	1337.6	1232.5	1144.8	1083.6	1016.8	1004.1	1021.4	1027.0	1065.8	1137.2
52.5°	1328.4	1270.8	1158.6	1066.8	1005.6	941.9	926.6	943.4	950.0	987.8	1053.5
55°	1263.6	1201.4	1084.1	994.9	928.6	866.4	853.6	860.3	874.6	910.3	971.4
57.5°	1190.7	1129.0	1005.6	914.8	851.1	791.4	780.7	786.8	800.1	834.8	889.9
60°	1113.2	1047.9	925.5	834.8	773.1	716.5	706.8	712.4	726.7	758.3	809.3
62.5°	1036.7	963.3	842.9	752.7	696.6	644.1	641.5	639.5	652.7	683.3	728.2
65°	943.9	873.5	756.8	671.1	620.1	572.7	562.5	567.1	579.8	607.9	654.8
67.5°	844.5	780.7	668.5	589.5	544.1	501.8	493.1	495.2	508.4	532.9	573.7
70°	738.9	682.8	578.3	507.4	469.1	429.4	423.8	424.3	437.0	458.4	494.1
72.5°	628.3	577.8	487.0	426.3	394.7	366.1	361.0	354.9	366.6	385.0	415.6
75°	515.6	471.2	396.2	346.8	321.8	297.8	293.2	287.1	298.8	314.6	338.6
77.5°	401.8	366.1	308.0	269.8	250.4	232.5	228.5	221.8	233.6	245.3	264.2
80°	290.7	264.7	230.0	189.7	183.1	171.3	167.3	160.1	171.3	179.0	193.3
82.5°	187.7	170.3	150.4	122.4	121.4	112.7	110.7	102.5	112.7	117.3	128.0
85°	94.8	86.7	81.6	62.2	64.3	58.6	58.1	49.5	57.6	59.7	65.8
87.5°	27.0	28.6	25.5	15.3	19.4	18.4	18.4	13.3	18.4	18.4	20.9
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: P838203

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1	2186.1
2.5°	2188.2	2196.8	2198.9	2198.4	2204.0	2234.6	2224.4	2234.6
5°	2193.3	2212.6	2217.7	2224.9	2234.1	2268.7	2257.5	2269.8
7.5°	2196.3	2225.4	2236.6	2250.4	2265.2	2303.9	2294.7	2307.0
10°	2196.3	2234.1	2250.4	2273.3	2293.2	2338.1	2329.4	2343.7
12.5°	2187.2	2235.6	2258.5	2290.7	2316.2	2364.6	2361.0	2371.2
15°	2168.3	2227.9	2259.6	2300.9	2332.5	2386.5	2385.0	2397.2
17.5°	2142.8	2214.7	2252.9	2304.9	2344.7	2405.4	2409.0	2415.6
20°	2110.7	2189.7	2239.7	2303.4	2353.4	2420.2	2424.8	2434.0
22.5°	2068.3	2159.6	2219.8	2296.8	2354.4	2426.3	2434.5	2443.1
25°	2018.4	2123.4	2193.8	2284.0	2349.3	2425.8	2437.0	2444.7
27.5°	1961.2	2076.5	2160.6	2263.6	2335.0	2417.6	2431.4	2440.6
30°	1895.0	2026.5	2122.9	2237.1	2315.7	2402.3	2417.1	2426.3
32.5°	1826.6	1971.4	2078.0	2203.0	2287.6	2377.9	2390.6	2397.8
35°	1752.2	1904.6	2024.0	2159.1	2251.4	2338.6	2348.3	2355.9
37.5°	1671.1	1832.2	1962.3	2109.6	2200.4	2284.0	2292.7	2301.4
40°	1587.5	1756.2	1892.9	2049.0	2139.7	2217.2	2226.4	2232.5
42.5°	1503.3	1672.1	1819.0	1977.6	2067.8	2142.3	2147.9	2154.0
45°	1418.2	1584.9	1735.8	1898.5	1987.8	2057.6	2059.7	2064.8
47.5°	1331.5	1494.6	1644.6	1808.3	1896.5	1960.2	1962.3	1966.3
50°	1244.3	1404.4	1547.2	1710.9	1797.0	1864.4	1855.2	1859.3
52.5°	1158.6	1309.5	1455.4	1605.8	1691.0	1750.6	1753.2	1745.0
55°	1074.5	1216.7	1350.8	1495.7	1576.7	1623.2	1621.6	1624.7
57.5°	989.3	1122.9	1245.8	1378.4	1457.4	1501.3	1510.5	1499.7
60°	902.6	1028.0	1138.2	1258.0	1334.5	1371.2	1381.9	1371.7
62.5°	816.4	931.7	1031.6	1136.2	1207.0	1252.4	1251.4	1240.2
65°	730.2	834.8	924.0	1012.7	1074.5	1119.8	1117.8	1107.6
67.5°	650.7	736.9	816.9	888.8	942.4	973.5	984.2	972.0
70°	563.0	637.4	707.8	765.4	809.8	837.8	848.0	837.3
72.5°	475.3	538.5	588.0	643.5	677.7	701.2	711.9	701.7
75°	388.6	440.6	480.9	524.2	548.2	568.1	580.3	570.1
77.5°	304.4	344.7	376.8	408.5	436.0	440.6	451.3	444.7
80°	224.4	253.4	276.9	297.8	317.7	319.7	328.4	324.3
82.5°	149.4	168.8	174.9	196.8	209.6	207.5	216.2	213.2
85°	79.0	90.8	101.5	108.1	115.2	108.6	116.3	113.2
87.5°	26.5	28.0	24.5	34.7	38.2	32.6	37.2	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)