

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: P838112

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2LO-40-120-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: P838112
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-LD4-2LO-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

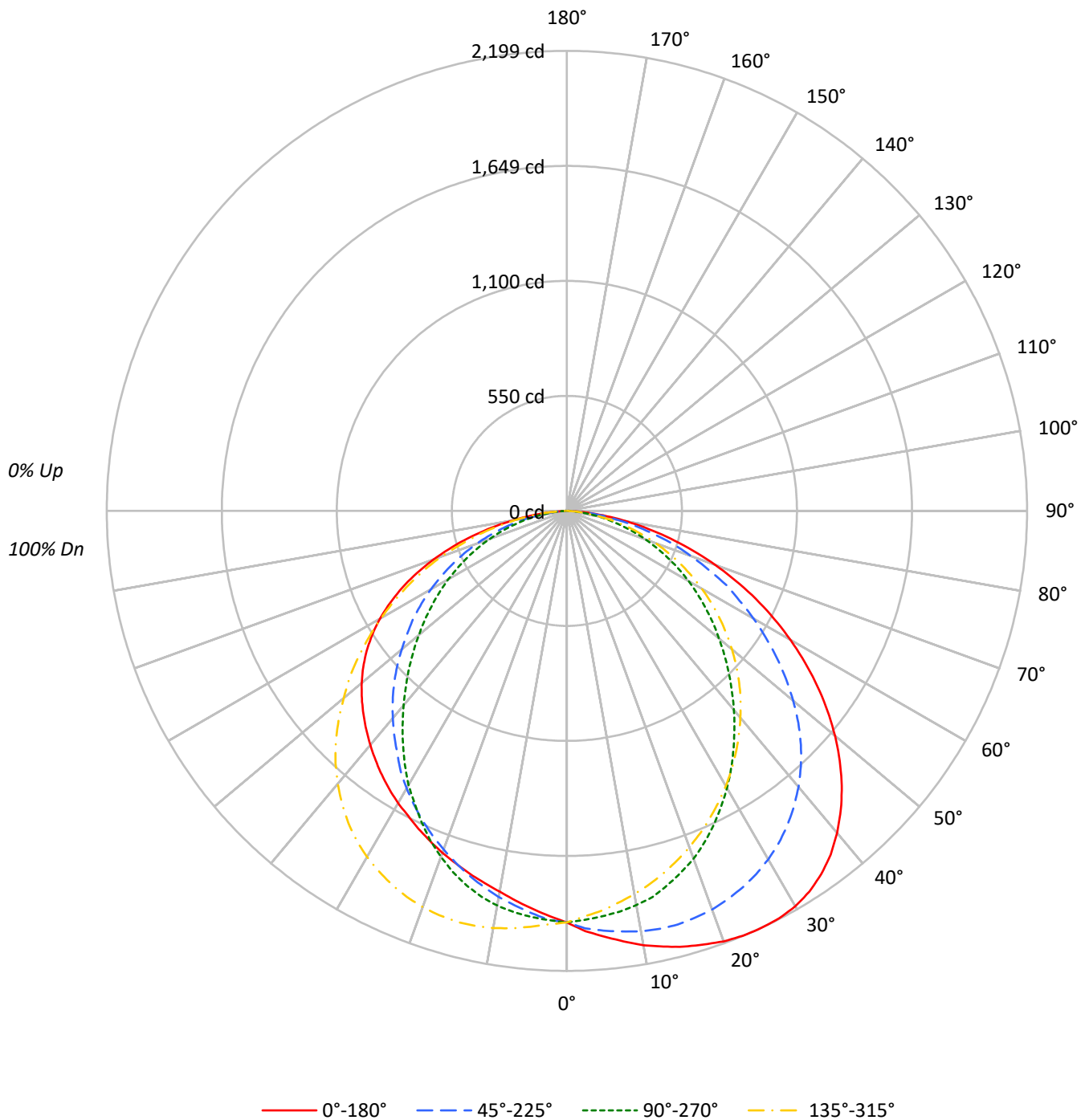
Lumens per Lamp: N/A
Luminaire Lumens: 5770.3 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2646	2646	2646	2646
5°	2758	2627	2578	2632
10°	2881	2614	2525	2618
15°	3004	2581	2501	2581
20°	3135	2534	2490	2519
25°	3265	2463	2489	2438
30°	3391	2377	2506	2351
35°	3482	2280	2531	2243
40°	3528	2181	2566	2132
45°	3535	2082	2616	2030
50°	3501	1987	2680	1934
55°	3429	1898	2740	1846
60°	3321	1806	2777	1759
65°	3173	1700	2762	1661
70°	2963	1576	2664	1547
75°	2666	1405	2444	1397
80°	2261	1177	2055	1194
85°	1572	780	1303	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	3.2
10°-20°	540.7	9.4
20°-30°	828.7	14.4
30°-40°	1007.6	17.5
40°-50°	1047.5	18.2
50°-60°	946.2	16.4
60°-70°	719.4	12.5
70°-80°	401.0	7.0
80°-90°	92.3	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°	1556.2	27.0
0°-40°	2563.8	44.4
0°-60°	4557.5	79.0
0°-90°	5770.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5770.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1967	1967	1967	1967	1967	
5°	2042	1945	1908	1948	2042	197
15°	2157	1853	1795	1853	2157	611
25°	2199	1659	1677	1642	2199	1016
35°	2120	1388	1541	1366	2120	1324
45°	1858	1094	1375	1067	1858	1430
55°	1462	809	1168	787	1462	1305
65°	996	534	868	522	996	985
75°	513	270	470	269	513	545
85°	102	50	84	52	102	128
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°	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8
2.5°	2010.4	1981.0	1981.5	2007.2	1987.4	1997.1	1969.5	1980.1	1976.9	1979.2	1956.7
5°	2042.0	2010.4	2009.9	2031.9	2009.9	2014.0	1979.2	1986.1	1976.0	1969.5	1945.2
7.5°	2075.5	2043.9	2040.6	2059.9	2031.0	2027.8	1989.3	1989.3	1970.9	1954.9	1931.9
10°	2108.5	2076.0	2071.8	2086.5	2050.7	2040.2	1993.4	1986.1	1961.7	1937.9	1913.1
12.5°	2133.3	2100.3	2097.1	2106.3	2065.9	2046.6	1993.4	1979.2	1943.4	1909.9	1890.6
15°	2156.7	2122.8	2114.1	2118.6	2072.3	2046.6	1987.0	1965.0	1919.1	1875.0	1852.6
17.5°	2173.2	2140.7	2131.9	2131.5	2075.5	2038.8	1973.2	1942.9	1887.9	1834.7	1812.2
20°	2189.8	2157.2	2146.2	2137.9	2074.6	2028.3	1953.0	1912.2	1848.0	1788.3	1769.5
22.5°	2198.0	2164.5	2152.6	2140.2	2068.6	2009.0	1928.2	1876.4	1803.0	1731.9	1716.3
25°	2199.4	2165.0	2152.1	2134.2	2056.7	1986.1	1896.1	1833.3	1751.2	1672.2	1658.9
27.5°	2195.7	2158.1	2145.3	2123.7	2038.8	1958.1	1858.1	1784.2	1696.1	1608.9	1594.7
30°	2182.9	2144.8	2132.4	2104.4	2013.6	1923.7	1816.3	1729.6	1635.1	1542.4	1530.0
32.5°	2157.2	2120.0	2109.9	2081.9	1986.1	1883.7	1767.7	1670.9	1567.6	1479.1	1460.8
35°	2119.6	2082.4	2076.0	2046.6	1947.5	1836.0	1714.5	1606.6	1496.1	1405.7	1387.8
37.5°	2070.5	2039.3	2029.6	2000.7	1902.1	1781.9	1653.4	1536.9	1423.1	1325.9	1314.9
40°	2008.5	1979.2	1971.8	1946.1	1849.3	1721.8	1587.4	1464.9	1347.9	1257.5	1241.9
42.5°	1937.9	1910.4	1906.2	1879.6	1784.2	1655.3	1515.8	1390.1	1269.4	1182.3	1166.7
45°	1857.6	1831.0	1830.1	1804.8	1713.1	1581.4	1440.6	1314.4	1192.8	1102.4	1094.2
47.5°	1769.1	1745.2	1745.2	1721.8	1633.7	1500.2	1363.0	1235.5	1115.8	1035.9	1021.2
50°	1672.7	1650.2	1643.3	1631.9	1546.1	1411.7	1281.4	1158.4	1039.6	963.4	949.2
52.5°	1569.9	1550.7	1555.3	1534.2	1451.1	1319.4	1198.8	1071.7	963.0	893.7	879.5
55°	1461.7	1434.1	1438.3	1430.5	1352.0	1224.5	1106.1	1000.1	887.7	822.6	809.3
57.5°	1349.3	1313.5	1328.2	1323.6	1246.5	1127.2	1021.2	918.9	813.0	752.9	740.0
60°	1234.1	1199.7	1214.8	1210.7	1138.2	1030.0	933.6	838.6	738.6	684.0	671.2
62.5°	1115.8	1084.1	1097.9	1094.6	1028.1	930.4	846.4	759.3	663.9	614.8	602.8
65°	996.5	966.2	978.6	976.3	914.8	840.5	757.0	677.2	588.6	545.9	534.0
67.5°	874.4	846.4	857.9	857.9	801.5	730.4	667.1	594.1	514.8	478.0	467.0
70°	753.3	727.2	737.3	736.3	688.6	630.8	576.2	511.1	440.0	409.7	400.5
72.5°	631.3	608.3	617.5	616.6	576.7	539.5	485.4	429.0	367.0	342.7	334.4
75°	512.9	491.4	500.1	499.2	466.6	431.7	395.5	348.7	295.5	278.5	270.2
77.5°	400.1	378.0	385.4	385.4	361.5	336.3	307.4	271.1	233.5	215.2	209.2
80°	291.8	281.2	277.6	278.0	262.0	245.4	230.8	195.9	168.4	156.0	151.9
82.5°	191.8	183.1	179.4	180.3	171.1	161.0	151.9	127.5	109.2	101.8	99.6
85°	101.8	95.4	92.2	94.5	92.7	87.2	82.6	66.1	54.6	51.8	50.5
87.5°	32.1	28.0	25.7	33.9	28.9	25.7	24.8	19.7	15.1	15.1	14.7
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°	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8
2.5°	1964.0	1964.0	1946.1	1942.0	1940.2	1942.5	1924.6	1921.4	1947.1	1938.3	1918.6
5°	1948.4	1947.5	1922.3	1917.7	1917.7	1914.9	1894.8	1890.2	1915.9	1908.5	1887.0
7.5°	1929.2	1926.4	1896.6	1893.4	1888.8	1887.0	1864.5	1861.3	1883.3	1878.7	1858.5
10°	1905.8	1903.0	1867.7	1865.4	1860.3	1856.7	1835.6	1833.3	1855.8	1848.4	1832.4
12.5°	1875.0	1870.0	1833.7	1831.4	1827.3	1825.9	1805.3	1804.4	1829.2	1821.8	1804.8
15°	1834.7	1830.5	1790.2	1791.1	1791.5	1791.5	1775.0	1774.1	1798.4	1795.2	1776.9
17.5°	1790.2	1784.7	1746.1	1748.9	1752.1	1755.7	1742.9	1745.2	1770.9	1766.8	1750.2
20°	1739.7	1734.2	1696.6	1704.4	1711.2	1718.6	1710.3	1716.8	1740.6	1738.8	1726.4
22.5°	1683.3	1677.8	1642.9	1654.8	1666.3	1680.0	1676.4	1683.7	1709.0	1708.5	1697.5
25°	1614.4	1615.8	1585.1	1599.8	1619.0	1638.3	1639.7	1651.6	1679.6	1676.8	1666.7
27.5°	1550.2	1552.0	1519.5	1544.3	1569.9	1594.7	1600.7	1617.2	1645.6	1643.3	1634.6
30°	1482.8	1485.1	1453.4	1487.4	1518.6	1548.8	1561.7	1584.2	1613.1	1613.1	1603.9
32.5°	1412.6	1416.7	1383.7	1429.1	1465.3	1500.7	1523.1	1546.5	1579.6	1578.7	1570.9
35°	1340.6	1345.1	1314.9	1372.7	1408.9	1452.0	1480.0	1511.2	1540.6	1541.0	1535.1
37.5°	1267.1	1272.7	1245.1	1308.4	1349.7	1400.7	1436.4	1467.6	1500.2	1502.0	1496.5
40°	1194.2	1200.2	1176.3	1237.3	1289.6	1346.5	1387.8	1424.5	1460.3	1461.2	1457.5
42.5°	1121.3	1127.7	1109.8	1169.4	1228.6	1289.6	1338.3	1380.0	1416.7	1419.0	1414.9
45°	1050.1	1055.7	1042.8	1108.0	1164.8	1231.4	1287.3	1334.6	1371.7	1375.0	1373.6
47.5°	979.5	984.5	973.1	1032.7	1098.3	1169.0	1233.7	1286.0	1325.4	1329.1	1328.2
50°	910.2	914.3	902.0	964.4	1029.5	1104.7	1172.2	1232.7	1276.8	1280.5	1280.0
52.5°	841.4	845.5	835.0	900.6	959.8	1039.1	1112.5	1178.1	1221.7	1227.2	1228.2
55°	774.9	776.7	768.5	831.3	888.7	971.7	1056.1	1119.9	1163.5	1168.1	1170.8
57.5°	708.4	708.8	701.9	762.0	817.1	902.0	990.5	1057.5	1098.8	1103.4	1107.5
60°	642.3	641.8	634.0	692.3	745.1	829.0	921.2	987.8	1027.7	1031.8	1037.3
62.5°	576.7	575.3	568.4	622.1	671.7	754.7	847.4	911.6	949.7	952.4	959.8
65°	511.5	510.2	503.7	553.3	598.2	677.6	768.5	829.5	863.9	867.6	866.2
67.5°	447.3	444.6	439.5	484.0	524.8	598.2	685.4	743.7	772.1	775.3	784.1
70°	383.1	379.9	368.4	415.7	451.4	517.0	598.2	650.1	673.9	677.2	675.8
72.5°	319.8	316.6	304.2	347.8	378.0	435.4	507.9	551.0	571.6	574.4	574.4
75°	258.3	256.5	248.7	281.7	306.9	353.7	415.2	451.0	467.0	470.2	469.3
77.5°	199.1	197.7	189.9	218.4	238.1	273.0	322.5	350.5	362.4	366.1	373.9
80°	142.7	142.2	129.8	157.8	166.5	195.9	232.1	253.7	260.1	265.2	270.7
82.5°	91.3	91.8	79.4	103.2	106.9	125.7	148.2	161.5	166.1	170.2	174.3
85°	44.5	46.3	39.5	54.6	55.1	64.7	74.3	79.4	81.2	84.4	88.1
87.5°	11.5	13.3	7.3	15.6	13.8	17.9	20.6	22.0	21.6	23.9	25.2
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°	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8
2.5°	1925.0	1939.7	1932.4	1956.2	1965.4	1950.7	1976.4	1976.9	1958.5	1980.1	1992.0
5°	1895.2	1910.4	1905.8	1930.5	1942.0	1929.2	1960.4	1966.3	1948.4	1972.8	1992.0
7.5°	1864.9	1882.8	1876.9	1902.1	1915.9	1905.8	1939.3	1948.9	1935.1	1961.7	1987.4
10°	1838.8	1853.9	1847.5	1874.1	1886.0	1877.8	1910.8	1928.7	1915.9	1948.4	1979.2
12.5°	1813.1	1825.5	1818.1	1840.2	1851.6	1841.1	1881.5	1898.0	1888.8	1922.7	1962.2
15°	1780.1	1793.8	1783.7	1803.5	1812.2	1803.0	1836.0	1864.5	1853.0	1890.2	1933.8
17.5°	1754.8	1762.6	1748.9	1764.5	1769.5	1757.1	1790.6	1818.6	1810.3	1850.7	1901.2
20°	1726.8	1733.3	1714.0	1722.7	1722.3	1706.7	1737.4	1764.9	1759.4	1803.9	1861.3
22.5°	1695.6	1698.9	1676.4	1678.2	1677.3	1651.6	1679.1	1707.1	1704.8	1749.8	1814.0
25°	1662.6	1663.1	1634.2	1633.3	1623.2	1592.9	1617.2	1648.9	1642.0	1690.6	1758.0
27.5°	1630.0	1625.5	1590.6	1582.3	1566.3	1530.0	1551.6	1580.0	1575.9	1623.6	1698.4
30°	1595.2	1589.2	1546.5	1531.4	1508.0	1466.3	1484.2	1510.8	1513.1	1554.8	1633.3
32.5°	1562.1	1547.0	1499.7	1477.7	1448.4	1399.7	1409.4	1436.4	1440.1	1482.3	1563.1
35°	1519.5	1509.4	1451.1	1413.5	1384.6	1331.4	1341.5	1360.3	1365.8	1407.1	1489.2
37.5°	1479.1	1463.0	1401.1	1355.2	1318.1	1262.1	1264.9	1284.1	1289.6	1331.4	1412.6
40°	1437.4	1414.4	1347.9	1294.2	1251.5	1192.8	1189.6	1209.8	1213.9	1254.8	1328.2
42.5°	1392.9	1365.3	1290.5	1231.8	1182.7	1123.1	1116.7	1134.1	1138.7	1178.6	1250.6
45°	1347.9	1314.9	1231.8	1167.6	1113.9	1052.9	1046.5	1059.8	1066.7	1104.3	1173.6
47.5°	1300.2	1261.6	1171.3	1099.7	1044.2	983.2	975.4	988.7	994.2	1031.3	1096.9
50°	1250.2	1203.4	1108.9	1030.0	974.9	914.8	903.3	918.9	924.0	958.8	1023.1
52.5°	1195.1	1143.3	1042.3	959.8	904.7	847.4	833.6	848.7	854.7	888.7	947.8
55°	1136.9	1080.9	975.4	895.1	835.4	779.5	768.0	774.0	786.8	818.9	874.0
57.5°	1071.2	1015.7	904.7	823.0	765.7	712.0	702.4	707.9	719.8	751.0	800.6
60°	1001.5	942.8	832.7	751.0	695.5	644.6	635.9	640.9	653.8	682.2	728.1
62.5°	932.7	866.6	758.4	677.2	626.7	579.4	577.1	575.3	587.2	614.8	655.1
65°	849.2	785.9	680.8	603.8	557.9	515.2	506.0	510.2	521.6	546.9	589.1
67.5°	759.7	702.4	601.5	530.3	489.5	451.4	443.6	445.5	457.4	479.4	516.1
70°	664.8	614.3	520.3	456.5	422.1	386.3	381.2	381.7	393.2	412.4	444.6
72.5°	565.2	519.8	438.1	383.5	355.1	329.4	324.8	319.3	329.9	346.4	373.9
75°	463.8	423.9	356.5	312.0	289.5	267.9	263.8	258.3	268.8	283.1	304.6
77.5°	361.5	329.4	277.1	242.7	225.3	209.2	205.5	199.6	210.1	220.7	237.6
80°	261.5	238.1	206.9	170.7	164.7	154.1	150.5	144.1	154.1	161.0	173.9
82.5°	168.8	153.2	135.3	110.1	109.2	101.4	99.6	92.2	101.4	105.5	115.2
85°	85.3	78.0	73.4	56.0	57.8	52.8	52.3	44.5	51.8	53.7	59.2
87.5°	24.3	25.7	22.9	13.8	17.4	16.5	16.5	11.9	16.5	16.5	18.8
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: P838112

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8	1966.8
2.5°	1968.6	1976.4	1978.3	1977.8	1982.8	2010.4	2001.2	2010.4
5°	1973.2	1990.6	1995.2	2001.7	2009.9	2041.1	2031.0	2042.0
7.5°	1976.0	2002.1	2012.2	2024.6	2037.9	2072.8	2064.5	2075.5
10°	1976.0	2009.9	2024.6	2045.2	2063.1	2103.5	2095.7	2108.5
12.5°	1967.7	2011.3	2031.9	2060.8	2083.8	2127.4	2124.1	2133.3
15°	1950.7	2004.4	2032.9	2070.0	2098.5	2147.1	2145.7	2156.7
17.5°	1927.8	1992.5	2026.9	2073.7	2109.5	2164.1	2167.3	2173.2
20°	1898.9	1970.0	2015.0	2072.3	2117.3	2177.4	2181.5	2189.8
22.5°	1860.8	1942.9	1997.1	2066.3	2118.2	2182.9	2190.2	2198.0
25°	1815.8	1910.4	1973.7	2054.9	2113.6	2182.4	2192.5	2199.4
27.5°	1764.5	1868.1	1943.8	2036.5	2100.7	2175.1	2187.5	2195.7
30°	1704.8	1823.2	1909.9	2012.7	2083.3	2161.3	2174.6	2182.9
32.5°	1643.3	1773.6	1869.5	1981.9	2058.1	2139.3	2150.8	2157.2
35°	1576.4	1713.5	1820.9	1942.5	2025.5	2104.0	2112.7	2119.6
37.5°	1503.4	1648.4	1765.4	1898.0	1979.6	2054.9	2062.7	2070.5
40°	1428.2	1580.0	1703.0	1843.4	1925.0	1994.8	2003.0	2008.5
42.5°	1352.5	1504.3	1636.5	1779.1	1860.3	1927.3	1932.4	1937.9
45°	1275.9	1425.9	1561.7	1708.0	1788.3	1851.2	1853.0	1857.6
47.5°	1197.9	1344.7	1479.6	1626.8	1706.2	1763.5	1765.4	1769.1
50°	1119.4	1263.5	1391.9	1539.2	1616.7	1677.3	1669.0	1672.7
52.5°	1042.3	1178.1	1309.4	1444.7	1521.3	1575.0	1577.3	1569.9
55°	966.6	1094.6	1215.3	1345.6	1418.5	1460.3	1458.9	1461.7
57.5°	890.0	1010.2	1120.8	1240.1	1311.2	1350.6	1358.9	1349.3
60°	812.0	924.9	1024.0	1131.8	1200.6	1233.7	1243.3	1234.1
62.5°	734.5	838.2	928.1	1022.2	1085.9	1126.8	1125.8	1115.8
65°	657.0	751.0	831.3	911.1	966.6	1007.5	1005.6	996.5
67.5°	585.4	662.9	735.0	799.7	847.8	875.8	885.4	874.4
70°	506.5	573.5	636.8	688.6	728.5	753.8	762.9	753.3
72.5°	427.6	484.5	529.0	579.0	609.7	630.8	640.5	631.3
75°	349.6	396.4	432.6	471.6	493.2	511.1	522.1	512.9
77.5°	273.9	310.1	339.0	367.5	392.3	396.4	406.0	400.1
80°	201.9	228.0	249.1	267.9	285.8	287.7	295.5	291.8
82.5°	134.4	151.9	157.4	177.1	188.6	186.7	194.5	191.8
85°	71.1	81.7	91.3	97.3	103.7	97.7	104.6	101.8
87.5°	23.9	25.2	22.0	31.2	34.4	29.4	33.5	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)