

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: P837958

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4HI-27-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837958
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-4HI-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

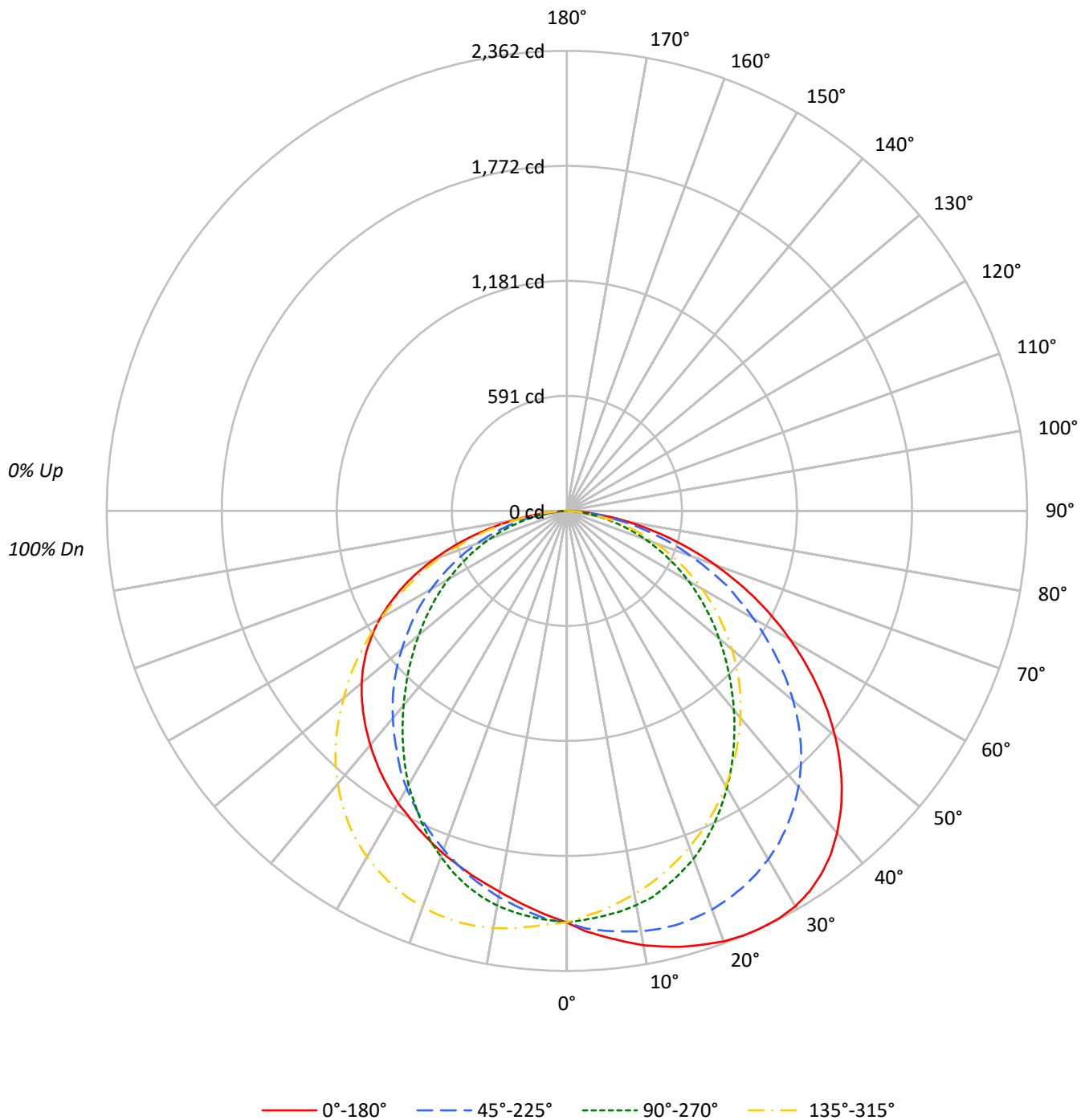
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6198.1 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' 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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	5685	5685	5685	5685
5°	5925	5644	5538	5653
10°	6189	5615	5425	5623
15°	6454	5544	5372	5545
20°	6736	5443	5348	5412
25°	7015	5291	5348	5237
30°	7286	5107	5384	5050
35°	7479	4897	5438	4820
40°	7579	4686	5514	4580
45°	7593	4473	5621	4360
50°	7522	4268	5758	4155
55°	7366	4078	5887	3965
60°	7134	3880	5965	3779
65°	6816	3652	5934	3568
70°	6367	3385	5723	3323
75°	5728	3018	5252	3003
80°	4857	2528	4413	2566
85°	3378	1673	2800	1720

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	3.2
10°-20°	580.8	9.4
20°-30°	890.1	14.4
30°-40°	1082.4	17.5
40°-50°	1125.2	18.2
50°-60°	1016.4	16.4
60°-70°	772.7	12.5
70°-80°	430.8	7.0
80°-90°	99.2	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°	1671.6	27.0
0°-40°	2753.9	44.4
0°-60°	4895.5	79.0
0°-90°	6198.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6198.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2113	2113	2113	2113	2113	
5°	2193	2090	2050	2093	2193	212
15°	2317	1990	1928	1990	2317	657
25°	2362	1782	1801	1764	2362	1091
35°	2277	1491	1655	1467	2277	1422
45°	1995	1175	1477	1146	1995	1536
55°	1570	869	1255	845	1570	1402
65°	1070	574	932	560	1070	1058
75°	551	290	505	289	551	585
85°	109	54	91	56	109	138
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°	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6
2.5°	2159.4	2127.9	2128.4	2156.0	2134.8	2145.1	2115.6	2126.9	2123.5	2125.9	2101.8
5°	2193.4	2159.4	2158.9	2182.6	2158.9	2163.4	2125.9	2133.3	2122.5	2115.6	2089.5
7.5°	2229.4	2195.4	2192.0	2212.7	2181.6	2178.2	2136.8	2136.8	2117.1	2099.8	2075.2
10°	2264.9	2229.9	2225.5	2241.2	2202.8	2191.5	2141.2	2133.3	2107.2	2081.6	2055.0
12.5°	2291.5	2256.0	2252.6	2262.4	2219.1	2198.4	2141.2	2125.9	2087.5	2051.5	2030.8
15°	2316.6	2280.2	2270.8	2275.7	2226.0	2198.4	2134.3	2110.6	2061.4	2014.1	1989.9
17.5°	2334.4	2299.4	2290.0	2289.5	2229.4	2190.0	2119.5	2087.0	2027.9	1970.7	1946.5
20°	2352.1	2317.1	2305.3	2296.4	2228.4	2178.7	2097.8	2054.0	1985.0	1920.9	1900.7
22.5°	2361.0	2325.0	2312.2	2298.9	2222.0	2158.0	2071.2	2015.5	1936.7	1860.3	1843.5
25°	2362.5	2325.5	2311.7	2292.5	2209.2	2133.3	2036.7	1969.2	1881.0	1796.2	1781.9
27.5°	2358.5	2318.1	2304.3	2281.2	2190.0	2103.3	1995.8	1916.5	1821.9	1728.2	1713.0
30°	2344.7	2303.8	2290.5	2260.5	2162.9	2066.3	1951.0	1857.8	1756.3	1656.8	1643.5
32.5°	2317.1	2277.2	2266.4	2236.3	2133.3	2023.4	1898.7	1794.8	1683.9	1588.8	1569.1
35°	2276.7	2236.8	2229.9	2198.4	2091.9	1972.2	1841.6	1725.8	1607.0	1509.9	1490.7
37.5°	2224.0	2190.5	2180.1	2149.1	2043.1	1914.0	1776.0	1650.9	1528.7	1424.2	1412.4
40°	2157.5	2125.9	2118.0	2090.4	1986.5	1849.5	1705.1	1573.5	1447.8	1350.8	1334.0
42.5°	2081.6	2052.0	2047.6	2019.0	1916.5	1778.0	1628.2	1493.2	1363.6	1269.9	1253.2
45°	1995.3	1966.7	1965.8	1938.7	1840.1	1698.7	1547.4	1411.9	1281.3	1184.2	1175.3
47.5°	1900.2	1874.6	1874.6	1849.5	1754.8	1611.4	1464.1	1327.1	1198.5	1112.7	1097.0
50°	1796.7	1772.6	1765.2	1752.9	1660.7	1516.3	1376.4	1244.3	1116.7	1034.9	1019.6
52.5°	1686.3	1665.6	1670.6	1647.9	1558.7	1417.3	1287.7	1151.2	1034.4	960.0	944.7
55°	1570.0	1540.5	1544.9	1536.5	1452.3	1315.3	1188.1	1074.3	953.6	883.6	869.3
57.5°	1449.3	1410.9	1426.6	1421.7	1338.9	1210.8	1097.0	987.1	873.2	808.7	794.9
60°	1325.6	1288.7	1304.9	1300.5	1222.6	1106.3	1002.8	900.8	793.4	734.8	721.0
62.5°	1198.5	1164.5	1179.3	1175.8	1104.4	999.4	909.2	815.6	713.1	660.3	647.5
65°	1070.4	1037.8	1051.1	1048.7	982.6	902.8	813.1	727.4	632.3	586.4	573.6
67.5°	939.3	909.2	921.5	921.5	860.9	784.5	716.5	638.2	552.9	513.5	501.7
70°	809.2	781.1	791.9	790.9	739.7	677.6	619.0	549.0	472.6	440.1	430.2
72.5°	678.1	653.4	663.3	662.3	619.4	579.5	521.4	460.8	394.2	368.1	359.2
75°	550.9	527.8	537.1	536.2	501.2	463.7	424.8	374.5	317.4	299.1	290.3
77.5°	429.7	406.1	413.9	413.9	388.3	361.2	330.2	291.2	250.8	231.1	224.7
80°	313.4	302.1	298.1	298.6	281.4	263.6	247.9	210.4	180.9	167.6	163.1
82.5°	206.0	196.6	192.7	193.7	183.8	173.0	163.1	137.0	117.3	109.4	106.9
85°	109.4	102.5	99.1	101.5	99.5	93.6	88.7	71.0	58.6	55.7	54.2
87.5°	34.5	30.1	27.6	36.5	31.0	27.6	26.6	21.2	16.3	16.3	15.8
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°	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6
2.5°	2109.7	2109.7	2090.4	2086.0	2084.0	2086.5	2067.3	2063.8	2091.4	2082.1	2060.9
5°	2092.9	2091.9	2064.8	2059.9	2059.9	2056.9	2035.2	2030.3	2057.9	2050.0	2026.9
7.5°	2072.2	2069.2	2037.2	2033.8	2028.8	2026.9	2002.7	1999.3	2022.9	2018.0	1996.3
10°	2047.1	2044.1	2006.2	2003.7	1998.3	1994.3	1971.7	1969.2	1993.4	1985.5	1968.2
12.5°	2014.1	2008.6	1969.7	1967.2	1962.8	1961.3	1939.2	1938.2	1964.8	1956.9	1938.7
15°	1970.7	1966.3	1922.9	1923.9	1924.4	1924.4	1906.6	1905.6	1931.8	1928.3	1908.6
17.5°	1922.9	1917.0	1875.6	1878.5	1882.0	1885.9	1872.1	1874.6	1902.2	1897.8	1880.0
20°	1868.7	1862.8	1822.4	1830.7	1838.1	1846.0	1837.1	1844.0	1869.7	1867.7	1854.4
22.5°	1808.1	1802.2	1764.7	1777.5	1789.8	1804.6	1800.7	1808.6	1835.7	1835.2	1823.3
25°	1734.1	1735.6	1702.6	1718.4	1739.1	1759.8	1761.3	1774.1	1804.1	1801.2	1790.3
27.5°	1665.2	1667.1	1632.1	1658.8	1686.3	1713.0	1719.4	1737.1	1767.7	1765.2	1755.8
30°	1592.7	1595.2	1561.2	1597.6	1631.2	1663.7	1677.5	1701.6	1732.7	1732.7	1722.8
32.5°	1517.3	1521.8	1486.3	1535.1	1574.0	1611.9	1636.1	1661.2	1696.7	1695.7	1687.3
35°	1439.9	1444.9	1412.4	1474.4	1513.4	1559.7	1589.8	1623.3	1654.8	1655.3	1648.9
37.5°	1361.1	1367.0	1337.4	1405.5	1449.8	1504.5	1542.9	1576.5	1611.4	1613.4	1607.5
40°	1282.7	1289.2	1263.5	1329.1	1385.2	1446.4	1490.7	1530.1	1568.6	1569.6	1565.6
42.5°	1204.4	1211.3	1192.1	1256.1	1319.7	1385.2	1437.5	1482.3	1521.8	1524.2	1519.8
45°	1128.0	1133.9	1120.1	1190.1	1251.2	1322.7	1382.8	1433.5	1473.5	1476.9	1475.4
47.5°	1052.1	1057.5	1045.2	1109.3	1179.8	1255.6	1325.1	1381.3	1423.7	1427.6	1426.6
50°	977.7	982.1	968.8	1035.9	1105.8	1186.7	1259.1	1324.1	1371.5	1375.4	1374.9
52.5°	903.8	908.2	896.9	967.4	1030.9	1116.2	1195.0	1265.5	1312.3	1318.2	1319.2
55°	832.3	834.3	825.4	892.9	954.5	1043.7	1134.4	1202.9	1249.7	1254.7	1257.6
57.5°	760.9	761.4	754.0	818.5	877.7	968.8	1063.9	1135.9	1180.2	1185.2	1189.6
60°	689.9	689.4	681.0	743.6	800.3	890.5	989.5	1061.0	1103.9	1108.3	1114.2
62.5°	619.4	618.0	610.6	668.2	721.5	810.6	910.2	979.2	1020.1	1023.0	1030.9
65°	549.5	548.0	541.1	594.3	642.6	727.9	825.4	891.0	927.9	931.9	930.4
67.5°	480.5	477.5	472.1	519.9	563.8	642.6	736.2	798.8	829.4	832.8	842.2
70°	411.5	408.0	395.7	446.5	484.9	555.4	642.6	698.3	723.9	727.4	725.9
72.5°	343.5	340.0	326.7	373.5	406.1	467.7	545.5	591.8	614.0	617.0	617.0
75°	277.4	275.5	267.1	302.6	329.7	379.9	446.0	484.4	501.7	505.1	504.1
77.5°	213.9	212.4	204.0	234.6	255.8	293.2	346.4	376.5	389.3	393.3	401.6
80°	153.3	152.8	139.5	169.5	178.9	210.4	249.4	272.5	279.4	284.8	290.7
82.5°	98.1	98.6	85.3	110.9	114.8	135.0	159.2	173.5	178.4	182.8	187.3
85°	47.8	49.8	42.4	58.6	59.1	69.5	79.8	85.3	87.2	90.7	94.6
87.5°	12.3	14.3	7.9	16.8	14.8	19.2	22.2	23.7	23.2	25.6	27.1
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°	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6
2.5°	2067.8	2083.5	2075.7	2101.3	2111.1	2095.4	2123.0	2123.5	2103.7	2126.9	2139.7
5°	2035.7	2052.0	2047.1	2073.7	2086.0	2072.2	2105.7	2112.1	2092.9	2119.0	2139.7
7.5°	2003.2	2022.4	2016.0	2043.1	2057.9	2047.1	2083.0	2093.4	2078.6	2107.2	2134.8
10°	1975.1	1991.4	1984.5	2013.1	2025.9	2017.0	2052.5	2071.7	2057.9	2092.9	2125.9
12.5°	1947.5	1960.8	1952.9	1976.6	1988.9	1977.6	2021.0	2038.7	2028.8	2065.3	2107.7
15°	1912.0	1926.8	1916.0	1937.2	1946.5	1936.7	1972.2	2002.7	1990.4	2030.3	2077.1
17.5°	1884.9	1893.3	1878.5	1895.3	1900.7	1887.4	1923.4	1953.4	1944.6	1987.9	2042.1
20°	1854.9	1861.8	1841.1	1850.4	1850.0	1833.2	1866.2	1895.8	1889.9	1937.7	1999.3
22.5°	1821.4	1824.8	1800.7	1802.6	1801.7	1774.1	1803.6	1833.7	1831.2	1879.5	1948.5
25°	1785.9	1786.4	1755.3	1754.4	1743.5	1711.0	1737.1	1771.1	1763.7	1816.0	1888.4
27.5°	1750.9	1746.0	1708.5	1699.7	1682.4	1643.5	1666.6	1697.2	1692.8	1744.0	1824.3
30°	1713.5	1707.0	1661.2	1645.0	1619.8	1575.0	1594.2	1622.8	1625.2	1670.1	1754.4
32.5°	1678.0	1661.7	1610.9	1587.3	1555.8	1503.5	1513.9	1542.9	1546.9	1592.2	1679.0
35°	1632.1	1621.3	1558.7	1518.3	1487.3	1430.1	1440.9	1461.1	1467.1	1511.4	1599.6
37.5°	1588.8	1571.5	1505.0	1455.7	1415.8	1355.7	1358.6	1379.3	1385.2	1430.1	1517.3
40°	1543.9	1519.3	1447.8	1390.2	1344.3	1281.3	1277.8	1299.5	1303.9	1347.8	1426.6
42.5°	1496.1	1466.6	1386.2	1323.2	1270.4	1206.4	1199.5	1218.2	1223.1	1266.0	1343.4
45°	1447.8	1412.4	1323.2	1254.2	1196.5	1131.0	1124.1	1138.4	1145.8	1186.2	1260.6
47.5°	1396.6	1355.2	1258.1	1181.2	1121.6	1056.1	1047.7	1062.0	1067.9	1107.8	1178.3
50°	1342.9	1292.6	1191.1	1106.3	1047.2	982.6	970.3	987.1	992.5	1029.9	1098.9
52.5°	1283.7	1228.0	1119.6	1030.9	971.8	910.2	895.4	911.7	918.1	954.5	1018.1
55°	1221.1	1161.0	1047.7	961.4	897.4	837.3	824.9	831.3	845.1	879.6	938.8
57.5°	1150.7	1091.0	971.8	884.1	822.5	764.8	754.5	760.4	773.2	806.7	859.9
60°	1075.8	1012.7	894.4	806.7	747.1	692.4	683.0	688.4	702.2	732.8	782.1
62.5°	1001.9	930.9	814.6	727.4	673.2	622.4	619.9	618.0	630.8	660.3	703.7
65°	912.2	844.2	731.3	648.5	599.2	553.4	543.6	548.0	560.3	587.4	632.7
67.5°	816.1	754.5	646.1	569.7	525.8	484.9	476.5	478.5	491.3	515.0	554.4
70°	714.1	659.9	558.8	490.3	453.4	414.9	409.5	410.0	422.3	443.0	477.5
72.5°	607.1	558.3	470.6	412.0	381.4	353.8	348.9	343.0	354.3	372.1	401.6
75°	498.2	455.3	382.9	335.1	311.0	287.8	283.4	277.4	288.8	304.1	327.2
77.5°	388.3	353.8	297.6	260.7	242.0	224.7	220.8	214.4	225.7	237.0	255.3
80°	280.9	255.8	222.3	183.3	176.9	165.6	161.6	154.7	165.6	173.0	186.8
82.5°	181.3	164.6	145.4	118.3	117.3	108.9	106.9	99.1	108.9	113.3	123.7
85°	91.7	83.8	78.8	60.1	62.1	56.7	56.2	47.8	55.7	57.7	63.6
87.5°	26.1	27.6	24.6	14.8	18.7	17.7	17.7	12.8	17.7	17.7	20.2
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: P837958

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6	2112.6
2.5°	2114.6	2123.0	2124.9	2124.4	2129.9	2159.4	2149.6	2159.4
5°	2119.5	2138.2	2143.2	2150.1	2158.9	2192.4	2181.6	2193.4
7.5°	2122.5	2150.6	2161.4	2174.7	2189.0	2226.5	2217.6	2229.4
10°	2122.5	2158.9	2174.7	2196.9	2216.1	2259.5	2251.1	2264.9
12.5°	2113.6	2160.4	2182.6	2213.6	2238.3	2285.1	2281.6	2291.5
15°	2095.4	2153.0	2183.6	2223.5	2254.0	2306.3	2304.8	2316.6
17.5°	2070.7	2140.2	2177.2	2227.4	2265.9	2324.5	2328.0	2334.4
20°	2039.7	2116.1	2164.4	2226.0	2274.3	2338.8	2343.2	2352.1
22.5°	1998.8	2087.0	2145.1	2219.6	2275.2	2344.7	2352.6	2361.0
25°	1950.5	2052.0	2120.0	2207.2	2270.3	2344.2	2355.1	2362.5
27.5°	1895.3	2006.7	2088.0	2187.5	2256.5	2336.3	2349.7	2358.5
30°	1831.2	1958.4	2051.5	2161.9	2237.8	2321.6	2335.9	2344.7
32.5°	1765.2	1905.1	2008.1	2128.9	2210.7	2297.9	2310.2	2317.1
35°	1693.2	1840.6	1955.9	2086.5	2175.7	2260.0	2269.3	2276.7
37.5°	1614.9	1770.6	1896.3	2038.7	2126.4	2207.2	2215.6	2224.0
40°	1534.1	1697.2	1829.3	1980.1	2067.8	2142.7	2151.5	2157.5
42.5°	1452.8	1615.9	1757.8	1911.1	1998.3	2070.2	2075.7	2081.6
45°	1370.5	1531.6	1677.5	1834.7	1920.9	1988.4	1990.4	1995.3
47.5°	1286.7	1444.4	1589.3	1747.5	1832.7	1894.3	1896.3	1900.2
50°	1202.4	1357.2	1495.1	1653.3	1736.6	1801.7	1792.8	1796.7
52.5°	1119.6	1265.5	1406.4	1551.8	1634.1	1691.8	1694.2	1686.3
55°	1038.3	1175.8	1305.4	1445.4	1523.7	1568.6	1567.1	1570.0
57.5°	956.0	1085.1	1203.9	1332.0	1408.4	1450.8	1459.7	1449.3
60°	872.2	993.5	1099.9	1215.7	1289.6	1325.1	1335.5	1325.6
62.5°	789.0	900.3	996.9	1097.9	1166.4	1210.3	1209.3	1198.5
65°	705.7	806.7	892.9	978.7	1038.3	1082.2	1080.2	1070.4
67.5°	628.8	712.1	789.5	858.9	910.7	940.7	951.1	939.3
70°	544.0	616.0	684.0	739.7	782.6	809.7	819.5	809.2
72.5°	459.3	520.4	568.2	621.9	654.9	677.6	687.9	678.1
75°	375.5	425.8	464.7	506.6	529.8	549.0	560.8	550.9
77.5°	294.2	333.1	364.2	394.7	421.3	425.8	436.1	429.7
80°	216.8	244.9	267.6	287.8	307.0	309.0	317.4	313.4
82.5°	144.4	163.1	169.0	190.2	202.5	200.6	208.9	206.0
85°	76.4	87.7	98.1	104.5	111.4	105.0	112.4	109.4
87.5°	25.6	27.1	23.7	33.5	37.0	31.5	36.0	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)