

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: P837849

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4STD-27-120-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: P837849
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-LD4-4STD-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

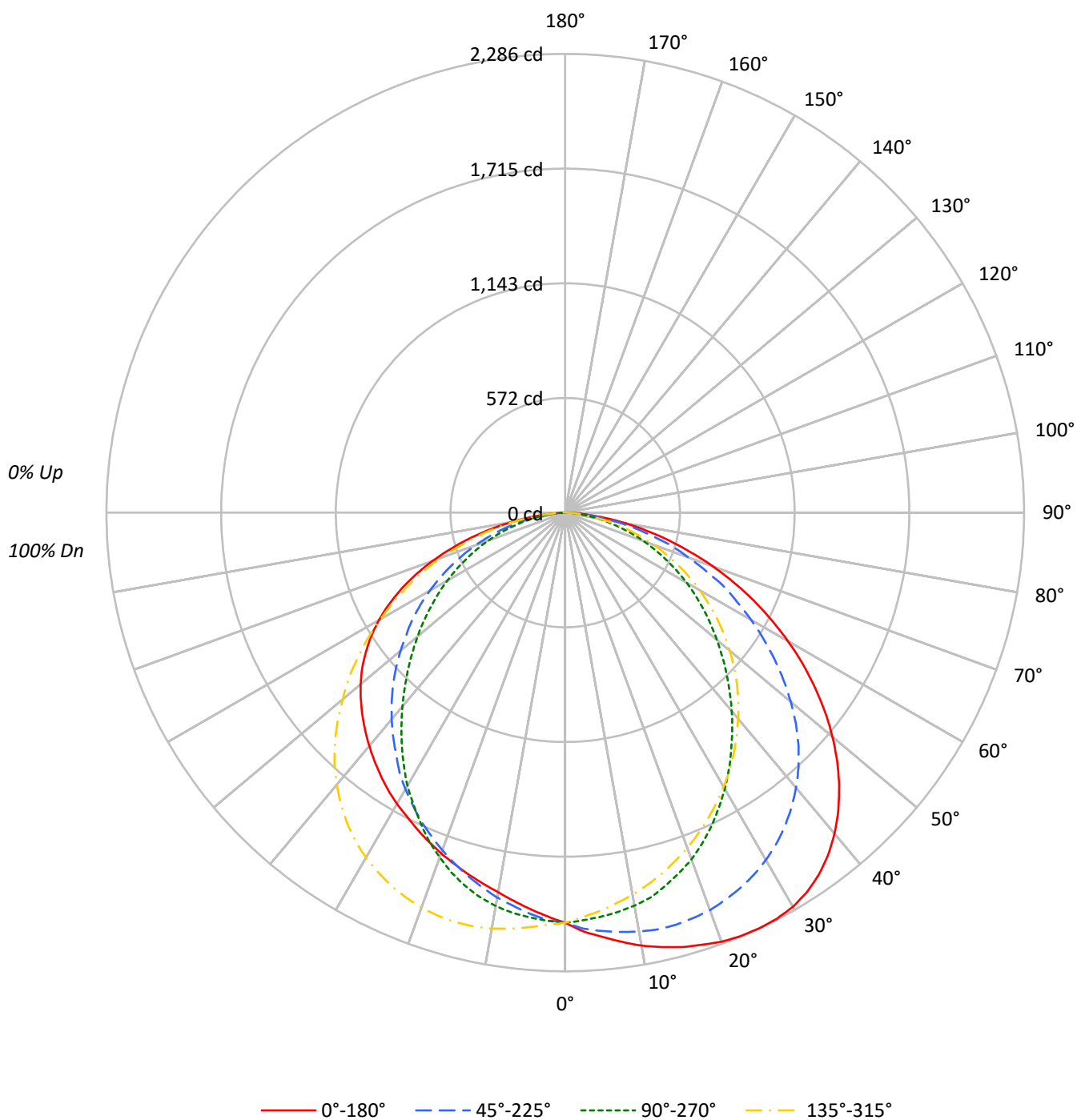
Lumens per Lamp: N/A
Luminaire Lumens: 5996.8 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5500	5500	5500	5500
5°	5733	5461	5358	5470
10°	5988	5433	5249	5441
15°	6244	5364	5198	5365
20°	6517	5266	5175	5236
25°	6787	5119	5174	5067
30°	7049	4941	5209	4886
35°	7236	4738	5261	4663
40°	7333	4534	5335	4432
45°	7347	4327	5438	4219
50°	7278	4130	5571	4020
55°	7127	3946	5695	3836
60°	6903	3754	5771	3657
65°	6594	3534	5741	3452
70°	6160	3275	5537	3215
75°	5542	2920	5081	2905
80°	4699	2445	4271	2483
85°	3267	1618	2708	1664

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	3.2
10°-20°	562.0	9.4
20°-30°	861.2	14.4
30°-40°	1047.2	17.5
40°-50°	1088.6	18.2
50°-60°	983.4	16.4
60°-70°	747.6	12.5
70°-80°	416.8	7.0
80°-90°	96.0	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°	1617.2	27.0
0°-40°	2664.4	44.4
0°-60°	4736.4	79.0
0°-90°	5996.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5996.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2044	2044	2044	2044	2044	
5°	2122	2022	1983	2025	2122	205
15°	2241	1925	1866	1926	2241	635
25°	2286	1724	1743	1706	2286	1056
35°	2203	1442	1602	1419	2203	1376
45°	1930	1137	1429	1108	1930	1486
55°	1519	841	1214	818	1519	1356
65°	1036	555	902	542	1036	1023
75°	533	281	489	279	533	566
85°	106	52	88	54	106	133
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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2089.3	2058.8	2059.2	2085.9	2065.4	2075.4	2046.8	2057.8	2054.5	2056.9	2033.5
5°	2122.2	2089.3	2088.8	2111.7	2088.8	2093.1	2056.9	2064.0	2053.5	2046.8	2021.6
7.5°	2157.0	2124.1	2120.7	2140.8	2110.7	2107.4	2067.3	2067.3	2048.3	2031.6	2007.7
10°	2191.3	2157.5	2153.2	2168.4	2131.2	2120.3	2071.6	2064.0	2038.7	2013.9	1988.2
12.5°	2217.0	2182.7	2179.4	2188.9	2147.0	2126.9	2071.6	2056.9	2019.7	1984.9	1964.8
15°	2241.4	2206.1	2197.0	2201.8	2153.6	2126.9	2065.0	2042.1	1994.4	1948.6	1925.3
17.5°	2258.5	2224.7	2215.6	2215.1	2157.0	2118.8	2050.7	2019.2	1962.0	1906.7	1883.3
20°	2275.7	2241.8	2230.4	2221.8	2156.0	2107.9	2029.7	1987.2	1920.5	1858.5	1839.0
22.5°	2284.3	2249.5	2237.1	2224.2	2149.8	2087.8	2003.9	1950.1	1873.8	1799.9	1783.7
25°	2285.7	2249.9	2236.6	2218.0	2137.4	2064.0	1970.6	1905.2	1819.9	1737.9	1724.1
27.5°	2281.9	2242.8	2229.4	2207.0	2118.8	2034.9	1931.0	1854.2	1762.7	1672.1	1657.3
30°	2268.5	2229.0	2216.1	2187.0	2092.6	1999.2	1887.6	1797.5	1699.3	1603.0	1590.1
32.5°	2241.8	2203.2	2192.7	2163.7	2064.0	1957.7	1837.1	1736.5	1629.2	1537.2	1518.1
35°	2202.7	2164.1	2157.5	2126.9	2024.0	1908.1	1781.7	1669.7	1554.8	1460.9	1442.3
37.5°	2151.7	2119.3	2109.3	2079.3	1976.8	1851.8	1718.3	1597.2	1479.0	1377.9	1366.5
40°	2087.4	2056.9	2049.2	2022.5	1921.9	1789.4	1649.7	1522.4	1400.8	1306.9	1290.7
42.5°	2013.9	1985.3	1981.0	1953.4	1854.2	1720.2	1575.3	1444.7	1319.3	1228.7	1212.5
45°	1930.5	1902.8	1901.9	1875.7	1780.3	1643.5	1497.1	1366.0	1239.6	1145.7	1137.1
47.5°	1838.5	1813.7	1813.7	1789.4	1697.8	1559.1	1416.5	1284.0	1159.5	1076.6	1061.3
50°	1738.4	1715.0	1707.8	1695.9	1606.8	1467.1	1331.7	1203.9	1080.4	1001.2	986.5
52.5°	1631.6	1611.5	1616.3	1594.4	1508.1	1371.2	1245.8	1113.8	1000.8	928.8	914.0
55°	1519.0	1490.4	1494.7	1486.6	1405.1	1272.5	1149.5	1039.4	922.6	854.9	841.0
57.5°	1402.2	1365.0	1380.3	1375.5	1295.4	1171.5	1061.3	955.0	844.9	782.4	769.1
60°	1282.6	1246.8	1262.5	1258.2	1182.9	1070.4	970.3	871.6	767.6	710.9	697.5
62.5°	1159.5	1126.6	1140.9	1137.6	1068.5	966.9	879.7	789.1	689.9	638.9	626.5
65°	1035.6	1004.1	1017.0	1014.6	950.7	873.5	786.7	703.7	611.7	567.4	555.0
67.5°	908.8	879.7	891.6	891.6	832.9	759.0	693.2	617.4	535.0	496.8	485.4
70°	782.9	755.7	766.2	765.2	715.7	655.6	598.8	531.1	457.2	425.8	416.2
72.5°	656.1	632.2	641.8	640.8	599.3	560.7	504.4	445.8	381.4	356.2	347.6
75°	533.0	510.6	519.7	518.7	484.9	448.7	411.0	362.4	307.0	289.4	280.8
77.5°	415.8	392.9	400.5	400.5	375.7	349.5	319.4	281.8	242.7	223.6	217.4
80°	303.2	292.3	288.5	288.9	272.2	255.1	239.8	203.6	175.0	162.1	157.8
82.5°	199.3	190.2	186.4	187.4	177.8	167.4	157.8	132.5	113.5	105.8	103.5
85°	105.8	99.2	95.8	98.2	96.3	90.6	85.8	68.7	56.7	53.9	52.4
87.5°	33.4	29.1	26.7	35.3	30.0	26.7	25.7	20.5	15.7	15.7	15.3
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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2041.1	2041.1	2022.5	2018.2	2016.3	2018.7	2000.1	1996.8	2023.5	2014.4	1993.9
5°	2024.9	2024.0	1997.7	1993.0	1993.0	1990.1	1969.1	1964.4	1991.1	1983.4	1961.0
7.5°	2004.9	2002.0	1971.0	1967.7	1962.9	1961.0	1937.7	1934.3	1957.2	1952.4	1931.5
10°	1980.6	1977.7	1941.0	1938.6	1933.4	1929.5	1907.6	1905.2	1928.6	1921.0	1904.3
12.5°	1948.6	1943.4	1905.7	1903.3	1899.0	1897.6	1876.1	1875.2	1900.9	1893.3	1875.7
15°	1906.7	1902.4	1860.4	1861.4	1861.8	1861.8	1844.7	1843.7	1869.0	1865.7	1846.6
17.5°	1860.4	1854.7	1814.6	1817.5	1820.8	1824.7	1811.3	1813.7	1840.4	1836.1	1818.9
20°	1808.0	1802.2	1763.2	1771.3	1778.4	1786.0	1777.5	1784.1	1808.9	1807.0	1794.1
22.5°	1749.3	1743.6	1707.4	1719.8	1731.7	1746.0	1742.2	1749.8	1776.0	1775.5	1764.1
25°	1677.8	1679.2	1647.3	1662.5	1682.6	1702.6	1704.0	1716.4	1745.5	1742.6	1732.2
27.5°	1611.1	1613.0	1579.1	1604.9	1631.6	1657.3	1663.5	1680.7	1710.2	1707.8	1698.8
30°	1541.0	1543.4	1510.5	1545.7	1578.2	1609.6	1623.0	1646.3	1676.4	1676.4	1666.8
32.5°	1468.0	1472.3	1438.0	1485.2	1522.9	1559.6	1582.9	1607.2	1641.6	1640.6	1632.5
35°	1393.2	1397.9	1366.5	1426.5	1464.2	1509.0	1538.1	1570.5	1601.0	1601.5	1595.3
37.5°	1316.9	1322.6	1294.0	1359.8	1402.7	1455.6	1492.8	1525.2	1559.1	1561.0	1555.3
40°	1241.1	1247.3	1222.5	1285.9	1340.2	1399.4	1442.3	1480.4	1517.6	1518.6	1514.7
42.5°	1165.3	1171.9	1153.3	1215.3	1276.8	1340.2	1390.8	1434.2	1472.3	1474.7	1470.4
45°	1091.4	1097.1	1083.7	1151.4	1210.6	1279.7	1337.9	1387.0	1425.6	1428.9	1427.5
47.5°	1017.9	1023.2	1011.3	1073.2	1141.4	1214.8	1282.1	1336.4	1377.4	1381.2	1380.3
50°	945.9	950.2	937.4	1002.2	1069.9	1148.1	1218.2	1281.1	1326.9	1330.7	1330.2
52.5°	874.4	878.7	867.7	935.9	997.4	1079.9	1156.2	1224.4	1269.7	1275.4	1276.4
55°	805.3	807.2	798.6	863.9	923.5	1009.8	1097.6	1163.8	1209.1	1213.9	1216.8
57.5°	736.2	736.6	729.5	791.9	849.2	937.4	1029.4	1099.0	1141.9	1146.7	1151.0
60°	667.5	667.0	658.9	719.5	774.3	861.6	957.4	1026.5	1068.0	1072.3	1078.0
62.5°	599.3	597.9	590.7	646.5	698.0	784.3	880.6	947.4	986.9	989.8	997.4
65°	531.6	530.2	523.5	575.0	621.7	704.2	798.6	862.0	897.8	901.6	900.2
67.5°	464.9	462.0	456.8	503.0	545.4	621.7	712.3	772.9	802.4	805.8	814.8
70°	398.1	394.8	382.9	432.0	469.2	537.3	621.7	675.6	700.4	703.7	702.3
72.5°	332.3	329.0	316.1	361.4	392.9	452.5	527.8	572.6	594.1	596.9	596.9
75°	268.4	266.5	258.4	292.7	319.0	367.6	431.5	468.7	485.4	488.7	487.8
77.5°	206.9	205.5	197.4	226.9	247.5	283.7	335.2	364.3	376.7	380.5	388.6
80°	148.3	147.8	134.9	164.0	173.1	203.6	241.3	263.7	270.3	275.6	281.3
82.5°	94.9	95.4	82.5	107.3	111.1	130.6	154.0	167.8	172.6	176.9	181.2
85°	46.2	48.2	41.0	56.7	57.2	67.2	77.2	82.5	84.4	87.7	91.5
87.5°	11.9	13.8	7.6	16.2	14.3	18.6	21.5	22.9	22.4	24.8	26.2
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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2000.6	2015.8	2008.2	2033.0	2042.5	2027.3	2054.0	2054.5	2035.4	2057.8	2070.2
5°	1969.6	1985.3	1980.6	2006.3	2018.2	2004.9	2037.3	2043.5	2024.9	2050.2	2070.2
7.5°	1938.1	1956.7	1950.5	1976.8	1991.1	1980.6	2015.4	2025.4	2011.1	2038.7	2065.4
10°	1911.0	1926.7	1920.0	1947.7	1960.1	1951.5	1985.8	2004.4	1991.1	2024.9	2056.9
12.5°	1884.3	1897.1	1889.5	1912.4	1924.3	1913.3	1955.3	1972.5	1962.9	1998.2	2039.2
15°	1849.9	1864.2	1853.7	1874.2	1883.3	1873.8	1908.1	1937.7	1925.7	1964.4	2009.6
17.5°	1823.7	1831.8	1817.5	1833.7	1839.0	1826.1	1860.9	1890.0	1881.4	1923.4	1975.8
20°	1794.6	1801.3	1781.3	1790.3	1789.9	1773.6	1805.6	1834.2	1828.5	1874.7	1934.3
22.5°	1762.2	1765.5	1742.2	1744.1	1743.1	1716.4	1745.0	1774.1	1771.7	1818.5	1885.2
25°	1727.9	1728.3	1698.3	1697.4	1686.9	1655.4	1680.7	1713.6	1706.4	1757.0	1827.0
27.5°	1694.0	1689.2	1653.0	1644.4	1627.7	1590.1	1612.5	1642.0	1637.8	1687.3	1765.1
30°	1657.8	1651.6	1607.2	1591.5	1567.2	1523.8	1542.4	1570.1	1572.4	1615.8	1697.4
32.5°	1623.5	1607.7	1558.6	1535.7	1505.2	1454.7	1464.7	1492.8	1496.6	1540.5	1624.4
35°	1579.1	1568.6	1508.1	1469.0	1438.9	1383.6	1394.1	1413.7	1419.4	1462.3	1547.6
37.5°	1537.2	1520.5	1456.1	1408.4	1369.8	1311.6	1314.5	1334.5	1340.2	1383.6	1468.0
40°	1493.8	1469.9	1400.8	1345.0	1300.7	1239.6	1236.3	1257.3	1261.6	1304.0	1380.3
42.5°	1447.5	1418.9	1341.2	1280.2	1229.2	1167.2	1160.5	1178.6	1183.4	1224.9	1299.7
45°	1400.8	1366.5	1280.2	1213.4	1157.6	1094.2	1087.5	1101.4	1108.5	1147.6	1219.6
47.5°	1351.2	1311.2	1217.2	1142.9	1085.2	1021.8	1013.6	1027.5	1033.2	1071.8	1140.0
50°	1299.2	1250.6	1152.4	1070.4	1013.2	950.7	938.8	955.0	960.2	996.5	1063.2
52.5°	1242.0	1188.1	1083.3	997.4	940.2	880.6	866.3	882.1	888.3	923.5	985.0
55°	1181.5	1123.3	1013.6	930.2	868.2	810.1	798.1	804.3	817.7	851.1	908.3
57.5°	1113.3	1055.6	940.2	855.4	795.8	740.0	730.0	735.7	748.1	780.5	832.0
60°	1040.8	979.8	865.4	780.5	722.8	669.9	660.8	666.1	679.4	709.0	756.7
62.5°	969.3	900.6	788.1	703.7	651.3	602.2	599.8	597.9	610.3	638.9	680.8
65°	882.5	816.7	707.5	627.4	579.8	535.4	525.9	530.2	542.1	568.3	612.2
67.5°	789.6	730.0	625.1	551.2	508.7	469.2	461.1	463.0	475.4	498.2	536.4
70°	690.9	638.4	540.7	474.4	438.6	401.5	396.2	396.7	408.6	428.6	462.0
72.5°	587.4	540.2	455.3	398.6	369.0	342.3	337.6	331.8	342.8	360.0	388.6
75°	482.0	440.5	370.5	324.2	300.9	278.4	274.2	268.4	279.4	294.2	316.6
77.5°	375.7	342.3	288.0	252.2	234.1	217.4	213.6	207.4	218.4	229.3	247.0
80°	271.8	247.5	215.0	177.4	171.2	160.2	156.4	149.7	160.2	167.4	180.7
82.5°	175.5	159.2	140.7	114.4	113.5	105.4	103.5	95.8	105.4	109.7	119.7
85°	88.7	81.1	76.3	58.2	60.1	54.8	54.4	46.2	53.9	55.8	61.5
87.5°	25.3	26.7	23.8	14.3	18.1	17.2	17.2	12.4	17.2	17.2	19.5
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: P837849

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2045.9	2054.0	2055.9	2055.4	2060.7	2089.3	2079.7	2089.3
5°	2050.7	2068.8	2073.5	2080.2	2088.8	2121.2	2110.7	2122.2
7.5°	2053.5	2080.7	2091.2	2104.1	2117.9	2154.1	2145.5	2157.0
10°	2053.5	2088.8	2104.1	2125.5	2144.1	2186.1	2178.0	2191.3
12.5°	2044.9	2090.2	2111.7	2141.7	2165.6	2210.9	2207.5	2217.0
15°	2027.3	2083.1	2112.6	2151.3	2180.8	2231.4	2229.9	2241.4
17.5°	2003.5	2070.7	2106.4	2155.1	2192.3	2249.0	2252.3	2258.5
20°	1973.4	2047.3	2094.0	2153.6	2200.4	2262.8	2267.1	2275.7
22.5°	1933.8	2019.2	2075.4	2147.4	2201.3	2268.5	2276.2	2284.3
25°	1887.1	1985.3	2051.1	2135.5	2196.5	2268.1	2278.6	2285.7
27.5°	1833.7	1941.5	2020.1	2116.4	2183.2	2260.4	2273.3	2281.9
30°	1771.7	1894.7	1984.9	2091.7	2165.1	2246.1	2260.0	2268.5
32.5°	1707.8	1843.3	1942.9	2059.7	2138.9	2223.2	2235.2	2241.8
35°	1638.2	1780.8	1892.4	2018.7	2105.0	2186.5	2195.6	2202.7
37.5°	1562.4	1713.1	1834.7	1972.5	2057.3	2135.5	2143.6	2151.7
40°	1484.2	1642.0	1769.8	1915.7	2000.6	2073.1	2081.6	2087.4
42.5°	1405.6	1563.4	1700.7	1849.0	1933.4	2003.0	2008.2	2013.9
45°	1325.9	1481.8	1623.0	1775.1	1858.5	1923.8	1925.7	1930.5
47.5°	1244.9	1397.5	1537.6	1690.7	1773.2	1832.8	1834.7	1838.5
50°	1163.4	1313.1	1446.6	1599.6	1680.2	1743.1	1734.5	1738.4
52.5°	1083.3	1224.4	1360.7	1501.4	1581.0	1636.8	1639.2	1631.6
55°	1004.6	1137.6	1263.0	1398.4	1474.2	1517.6	1516.2	1519.0
57.5°	925.0	1049.9	1164.8	1288.7	1362.7	1403.7	1412.2	1402.2
60°	843.9	961.2	1064.2	1176.2	1247.7	1282.1	1292.1	1282.6
62.5°	763.3	871.1	964.5	1062.3	1128.5	1171.0	1170.0	1159.5
65°	682.8	780.5	863.9	946.9	1004.6	1047.0	1045.1	1035.6
67.5°	608.4	689.0	763.8	831.0	881.1	910.2	920.2	908.8
70°	526.4	596.0	661.8	715.7	757.1	783.4	792.9	782.9
72.5°	444.4	503.5	549.7	601.7	633.6	655.6	665.6	656.1
75°	363.3	411.9	449.6	490.1	512.5	531.1	542.6	533.0
77.5°	284.6	322.3	352.3	381.9	407.7	411.9	422.0	415.8
80°	209.8	237.0	258.9	278.4	297.0	298.9	307.0	303.2
82.5°	139.7	157.8	163.5	184.0	196.0	194.1	202.2	199.3
85°	73.9	84.9	94.9	101.1	107.8	101.6	108.7	105.8
87.5°	24.8	26.2	22.9	32.4	35.8	30.5	34.8	33.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)