

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: P837782

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3LO-27-120-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: P837782
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-3LO-27-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

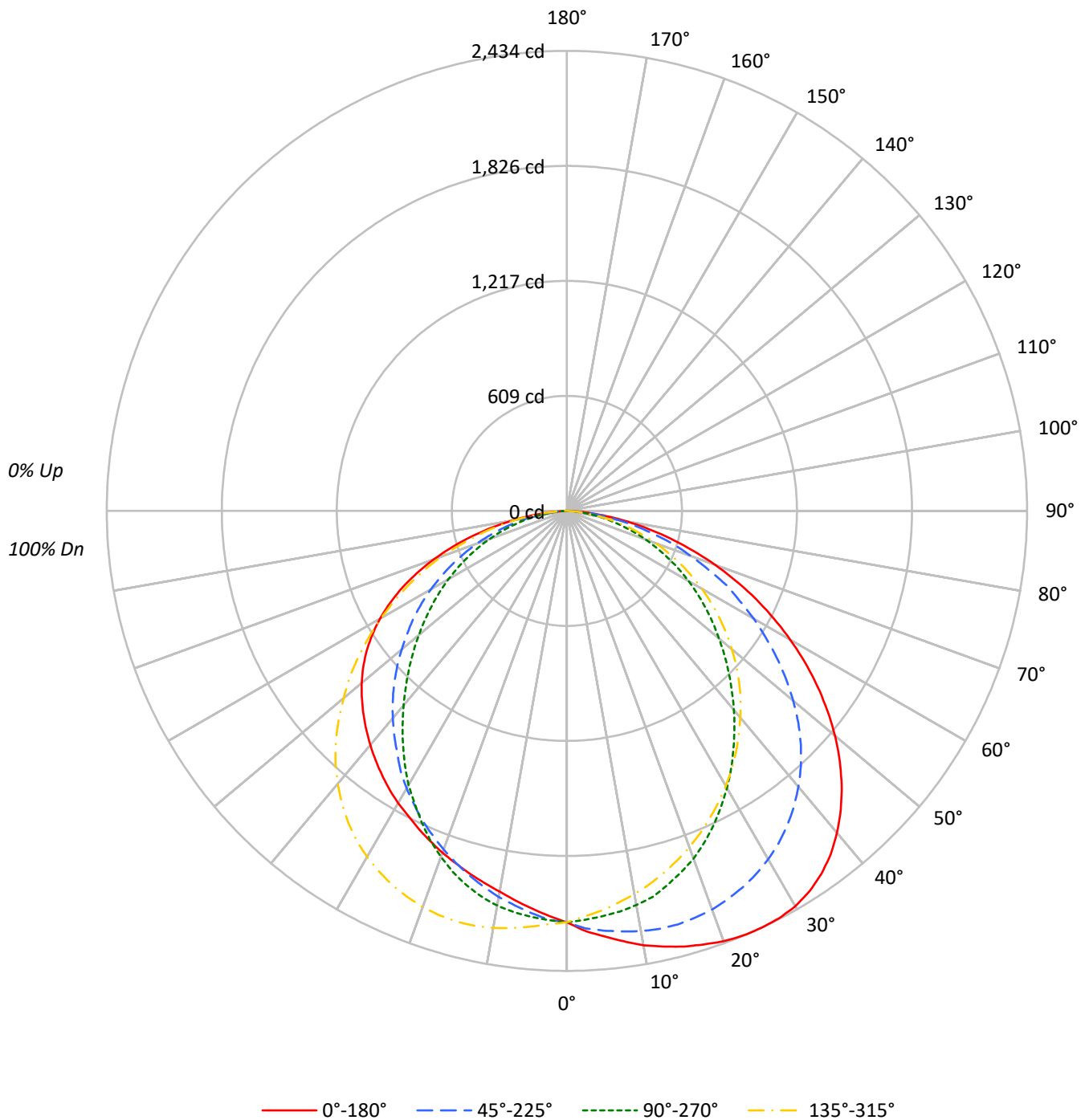
Lumens per Lamp: N/A
Luminaire Lumens: 6386.1 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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
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°	5857	5857	5857	5857
5°	6105	5815	5706	5825
10°	6377	5786	5590	5794
15°	6650	5712	5535	5713
20°	6940	5608	5511	5576
25°	7227	5451	5510	5396
30°	7507	5262	5547	5203
35°	7706	5046	5603	4965
40°	7809	4828	5681	4719
45°	7824	4609	5791	4493
50°	7750	4398	5933	4281
55°	7590	4202	6065	4085
60°	7351	3998	6146	3894
65°	7022	3763	6113	3676
70°	6559	3488	5896	3423
75°	5902	3110	5411	3093
80°	5004	2605	4548	2644
85°	3480	1726	2884	1772

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	3.2
10°-20°	598.4	9.4
20°-30°	917.1	14.4
30°-40°	1115.2	17.5
40°-50°	1159.3	18.2
50°-60°	1047.2	16.4
60°-70°	796.1	12.5
70°-80°	443.8	7.0
80°-90°	102.2	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°	1722.2	27.0
0°-40°	2837.4	44.4
0°-60°	5043.9	79.0
0°-90°	6386.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6386.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2177	2177	2177	2177	2177	
5°	2260	2153	2112	2156	2260	218
15°	2387	2050	1987	2051	2387	677
25°	2434	1836	1856	1817	2434	1124
35°	2346	1536	1706	1512	2346	1465
45°	2056	1211	1522	1180	2056	1583
55°	1618	896	1293	871	1618	1444
65°	1103	591	960	577	1103	1090
75°	568	299	520	298	568	603
85°	113	56	93	57	113	142
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°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	2224.9	2192.4	2192.9	2221.4	2199.5	2210.2	2179.7	2191.4	2187.9	2190.4	2165.5
5°	2260.0	2224.9	2224.4	2248.8	2224.4	2229.0	2190.4	2198.0	2186.8	2179.7	2152.8
7.5°	2297.0	2262.0	2258.4	2279.8	2247.8	2244.2	2201.6	2201.6	2181.3	2163.5	2138.1
10°	2333.6	2297.5	2293.0	2309.2	2269.6	2257.9	2206.1	2198.0	2171.1	2144.7	2117.3
12.5°	2361.0	2324.4	2320.9	2331.0	2286.4	2265.0	2206.1	2190.4	2150.8	2113.7	2092.4
15°	2386.9	2349.3	2339.7	2344.7	2293.5	2265.0	2199.0	2174.7	2123.9	2075.1	2050.3
17.5°	2405.2	2369.1	2359.5	2359.0	2297.0	2256.4	2183.8	2150.3	2089.3	2030.5	2005.6
20°	2423.4	2387.4	2375.2	2366.1	2296.0	2244.7	2161.4	2116.3	2045.2	1979.2	1958.4
22.5°	2432.6	2395.5	2382.3	2368.6	2289.4	2223.4	2134.0	2076.7	1995.4	1916.7	1899.5
25°	2434.1	2396.0	2381.8	2362.0	2276.2	2198.0	2098.5	2028.9	1938.0	1850.7	1836.0
27.5°	2430.0	2388.4	2374.2	2350.3	2256.4	2167.0	2056.3	1974.6	1877.1	1780.6	1764.9
30°	2415.8	2373.7	2360.0	2329.0	2228.5	2129.0	2010.1	1914.2	1809.6	1707.0	1693.3
32.5°	2387.4	2346.3	2335.1	2304.1	2198.0	2084.8	1956.3	1849.2	1734.9	1637.0	1616.6
35°	2345.8	2304.6	2297.5	2265.0	2155.4	2032.0	1897.4	1778.1	1655.7	1555.7	1535.9
37.5°	2291.4	2256.9	2246.2	2214.3	2105.1	1972.1	1829.9	1700.9	1575.0	1467.4	1455.2
40°	2222.9	2190.4	2182.3	2153.8	2046.7	1905.5	1756.8	1621.2	1491.7	1391.7	1374.5
42.5°	2144.7	2114.2	2109.7	2080.2	1974.6	1831.9	1677.6	1538.5	1404.9	1308.4	1291.2
45°	2055.8	2026.4	2025.4	1997.4	1895.9	1750.2	1594.3	1454.7	1320.1	1220.1	1211.0
47.5°	1957.8	1931.4	1931.4	1905.5	1808.1	1660.3	1508.5	1367.3	1234.8	1146.5	1130.2
50°	1851.2	1826.3	1818.7	1806.0	1711.1	1562.3	1418.1	1282.0	1150.5	1066.3	1050.5
52.5°	1737.5	1716.2	1721.2	1697.9	1606.0	1460.3	1326.7	1186.1	1065.7	989.1	973.3
55°	1617.7	1587.2	1591.8	1583.1	1496.3	1355.2	1224.2	1106.9	982.5	910.4	895.7
57.5°	1493.3	1453.7	1469.9	1464.8	1379.5	1247.5	1130.2	1017.0	899.7	833.2	819.0
60°	1365.8	1327.7	1344.5	1339.9	1259.7	1139.9	1033.3	928.1	817.5	757.0	742.8
62.5°	1234.8	1199.8	1215.0	1211.5	1137.8	1029.7	936.8	840.3	734.7	680.4	667.2
65°	1102.8	1069.3	1083.0	1080.5	1012.4	930.2	837.8	749.4	651.4	604.2	591.0
67.5°	967.8	936.8	949.5	949.5	887.0	808.3	738.3	657.5	569.7	529.1	516.9
70°	833.7	804.8	815.9	814.9	762.1	698.1	637.7	565.6	486.9	453.4	443.3
72.5°	698.7	673.3	683.4	682.4	638.2	597.1	537.2	474.7	406.2	379.3	370.1
75°	567.7	543.8	553.4	552.4	516.4	477.8	437.7	385.9	327.0	308.2	299.1
77.5°	442.7	418.4	426.5	426.5	400.1	372.2	340.2	300.1	258.4	238.1	231.5
80°	322.9	311.2	307.2	307.7	289.9	271.6	255.4	216.8	186.3	172.6	168.1
82.5°	212.2	202.6	198.5	199.5	189.4	178.2	168.1	141.2	120.8	112.7	110.2
85°	112.7	105.6	102.1	104.6	102.6	96.5	91.4	73.1	60.4	57.4	55.9
87.5°	35.5	31.0	28.4	37.6	32.0	28.4	27.4	21.8	16.8	16.8	16.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	2173.6	2173.6	2153.8	2149.3	2147.2	2149.8	2130.0	2126.4	2154.8	2145.2	2123.4
5°	2156.4	2155.4	2127.4	2122.4	2122.4	2119.3	2097.0	2091.9	2120.3	2112.2	2088.3
7.5°	2135.0	2132.0	2099.0	2095.4	2090.4	2088.3	2063.5	2059.9	2084.3	2079.2	2056.9
10°	2109.2	2106.1	2067.0	2064.5	2058.9	2054.8	2031.5	2028.9	2053.8	2045.7	2027.9
12.5°	2075.1	2069.5	2029.4	2026.9	2022.3	2020.8	1998.0	1996.9	2024.4	2016.2	1997.4
15°	2030.5	2025.9	1981.2	1982.2	1982.7	1982.7	1964.4	1963.4	1990.3	1986.8	1966.5
17.5°	1981.2	1975.1	1932.5	1935.5	1939.1	1943.1	1928.9	1931.4	1959.9	1955.3	1937.0
20°	1925.3	1919.3	1877.6	1886.3	1893.9	1902.0	1892.9	1900.0	1926.4	1924.3	1910.6
22.5°	1862.9	1856.8	1818.2	1831.4	1844.1	1859.3	1855.3	1863.4	1891.3	1890.8	1878.6
25°	1786.7	1788.3	1754.2	1770.5	1791.8	1813.1	1814.7	1827.9	1858.8	1855.8	1844.6
27.5°	1715.7	1717.7	1681.6	1709.1	1737.5	1764.9	1771.5	1789.8	1821.3	1818.7	1809.1
30°	1641.0	1643.6	1608.5	1646.1	1680.6	1714.1	1728.3	1753.2	1785.2	1785.2	1775.1
32.5°	1563.3	1567.9	1531.3	1581.6	1621.7	1660.8	1685.7	1711.6	1748.1	1747.1	1738.5
35°	1483.6	1488.7	1455.2	1519.2	1559.3	1607.0	1638.0	1672.5	1705.0	1705.5	1698.9
37.5°	1402.4	1408.5	1378.0	1448.1	1493.8	1550.1	1589.7	1624.3	1660.3	1662.3	1656.2
40°	1321.6	1328.2	1301.8	1369.4	1427.3	1490.2	1535.9	1576.5	1616.1	1617.2	1613.1
42.5°	1240.9	1248.0	1228.2	1294.2	1359.7	1427.3	1481.1	1527.3	1567.9	1570.4	1565.9
45°	1162.2	1168.3	1154.1	1226.2	1289.2	1362.8	1424.7	1477.0	1518.1	1521.7	1520.2
47.5°	1084.0	1089.6	1076.9	1142.9	1215.5	1293.7	1365.3	1423.2	1466.9	1470.9	1469.9
50°	1007.4	1011.9	998.2	1067.3	1139.4	1222.6	1297.3	1364.3	1413.0	1417.1	1416.6
52.5°	931.2	935.8	924.1	996.7	1062.2	1150.0	1231.3	1303.9	1352.1	1358.2	1359.2
55°	857.6	859.6	850.5	920.0	983.5	1075.4	1168.8	1239.4	1287.6	1292.7	1295.8
57.5°	784.0	784.5	776.8	843.4	904.3	998.2	1096.2	1170.3	1216.0	1221.1	1225.7
60°	710.8	710.3	701.7	766.2	824.6	917.5	1019.5	1093.2	1137.3	1141.9	1148.0
62.5°	638.2	636.7	629.1	688.5	743.3	835.2	937.8	1008.9	1051.0	1054.1	1062.2
65°	566.1	564.6	557.5	612.3	662.1	749.9	850.5	918.0	956.1	960.1	958.6
67.5°	495.0	492.0	486.4	535.7	580.9	662.1	758.6	823.0	854.5	858.1	867.7
70°	424.0	420.4	407.7	460.0	499.6	572.2	662.1	719.5	745.9	749.4	747.9
72.5°	353.9	350.3	336.6	384.9	418.4	481.8	562.1	609.8	632.6	635.7	635.7
75°	285.9	283.8	275.2	311.8	339.7	391.5	459.5	499.1	516.9	520.4	519.4
77.5°	220.4	218.8	210.2	241.7	263.5	302.1	356.9	387.9	401.1	405.2	413.8
80°	157.9	157.4	143.7	174.7	184.3	216.8	256.9	280.8	287.9	293.5	299.6
82.5°	101.0	101.5	87.8	114.2	118.3	139.1	164.0	178.7	183.8	188.4	192.9
85°	49.3	51.3	43.7	60.4	60.9	71.6	82.3	87.8	89.9	93.4	97.5
87.5°	12.7	14.7	8.1	17.3	15.2	19.8	22.8	24.4	23.9	26.4	27.9
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°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	2130.5	2146.7	2138.6	2165.0	2175.2	2158.9	2187.3	2187.9	2167.5	2191.4	2204.6
5°	2097.5	2114.2	2109.2	2136.6	2149.3	2135.0	2169.6	2176.2	2156.4	2183.3	2204.6
7.5°	2064.0	2083.8	2077.2	2105.1	2120.3	2109.2	2146.2	2156.9	2141.6	2171.1	2199.5
10°	2035.0	2051.8	2044.7	2074.1	2087.3	2078.2	2114.7	2134.5	2120.3	2156.4	2190.4
12.5°	2006.6	2020.3	2012.2	2036.5	2049.2	2037.6	2082.2	2100.5	2090.4	2127.9	2171.6
15°	1970.0	1985.3	1974.1	1995.9	2005.6	1995.4	2032.0	2063.5	2050.8	2091.9	2140.1
17.5°	1942.1	1950.7	1935.5	1952.8	1958.4	1944.6	1981.7	2012.7	2003.5	2048.2	2104.1
20°	1911.1	1918.2	1896.9	1906.6	1906.1	1888.8	1922.8	1953.3	1947.2	1996.4	2059.9
22.5°	1876.6	1880.2	1855.3	1857.3	1856.3	1827.9	1858.3	1889.3	1886.8	1936.5	2007.6
25°	1840.0	1840.6	1808.6	1807.6	1796.4	1762.9	1789.8	1824.8	1817.2	1871.0	1945.7
27.5°	1804.0	1798.9	1760.3	1751.2	1733.4	1693.3	1717.2	1748.7	1744.1	1796.9	1879.7
30°	1765.4	1758.8	1711.6	1694.8	1668.9	1622.7	1642.5	1672.0	1674.5	1720.7	1807.6
32.5°	1728.9	1712.1	1659.8	1635.4	1602.9	1549.1	1559.8	1589.7	1593.8	1640.5	1729.9
35°	1681.6	1670.5	1606.0	1564.3	1532.4	1473.5	1484.6	1505.4	1511.5	1557.2	1648.1
37.5°	1637.0	1619.2	1550.6	1499.9	1458.7	1396.8	1399.8	1421.2	1427.3	1473.5	1563.3
40°	1590.7	1565.4	1491.7	1432.3	1385.1	1320.1	1316.6	1338.9	1343.5	1388.7	1469.9
42.5°	1541.5	1511.0	1428.3	1363.3	1309.0	1242.9	1235.8	1255.1	1260.2	1304.4	1384.1
45°	1491.7	1455.2	1363.3	1292.2	1232.8	1165.3	1158.2	1172.9	1180.5	1222.1	1298.8
47.5°	1438.9	1396.3	1296.3	1217.1	1155.6	1088.1	1079.5	1094.2	1100.3	1141.4	1214.0
50°	1383.6	1331.8	1227.2	1139.9	1078.9	1012.4	999.7	1017.0	1022.6	1061.2	1132.3
52.5°	1322.7	1265.3	1153.6	1062.2	1001.3	937.8	922.6	939.3	945.9	983.5	1049.0
55°	1258.2	1196.2	1079.5	990.6	924.6	862.7	850.0	856.6	870.8	906.3	967.2
57.5°	1185.6	1124.1	1001.3	910.9	847.4	788.0	777.3	783.4	796.6	831.2	886.0
60°	1108.4	1043.4	921.5	831.2	769.7	713.4	703.7	709.3	723.5	755.0	805.8
62.5°	1032.2	959.1	839.3	749.4	693.6	641.3	638.7	636.7	649.9	680.4	725.1
65°	939.8	869.8	753.5	668.2	617.4	570.2	560.0	564.6	577.3	605.2	651.9
67.5°	840.8	777.3	665.6	586.9	541.8	499.6	491.0	493.0	506.2	530.6	571.2
70°	735.7	679.9	575.8	505.2	467.1	427.5	421.9	422.4	435.1	456.5	492.0
72.5°	625.5	575.3	484.9	424.5	393.0	364.6	359.5	353.4	365.1	383.3	413.8
75°	513.3	469.2	394.5	345.3	320.4	296.5	292.0	285.9	297.5	313.3	337.1
77.5°	400.1	364.6	306.7	268.6	249.3	231.5	227.5	220.9	232.5	244.2	263.0
80°	289.4	263.5	229.0	188.9	182.3	170.6	166.5	159.4	170.6	178.2	192.4
82.5°	186.8	169.6	149.8	121.9	120.8	112.2	110.2	102.1	112.2	116.8	127.4
85°	94.4	86.3	81.2	61.9	64.0	58.4	57.9	49.3	57.4	59.4	65.5
87.5°	26.9	28.4	25.4	15.2	19.3	18.3	18.3	13.2	18.3	18.3	20.8
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: P837782

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3LO-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	2178.7	2187.3	2189.4	2188.9	2194.5	2224.9	2214.8	2224.9
5°	2183.8	2203.1	2208.2	2215.3	2224.4	2258.9	2247.8	2260.0
7.5°	2186.8	2215.8	2226.9	2240.7	2255.4	2294.0	2284.8	2297.0
10°	2186.8	2224.4	2240.7	2263.5	2283.3	2328.0	2319.4	2333.6
12.5°	2177.7	2225.9	2248.8	2280.8	2306.2	2354.4	2350.8	2361.0
15°	2158.9	2218.3	2249.8	2290.9	2322.4	2376.2	2374.7	2386.9
17.5°	2133.5	2205.1	2243.2	2295.0	2334.6	2395.0	2398.6	2405.2
20°	2101.5	2180.2	2230.0	2293.5	2343.2	2409.7	2414.3	2423.4
22.5°	2059.4	2150.3	2210.2	2286.9	2344.2	2415.8	2424.0	2432.6
25°	2009.6	2114.2	2184.3	2274.2	2339.2	2415.3	2426.5	2434.1
27.5°	1952.8	2067.5	2151.3	2253.9	2324.9	2407.2	2420.9	2430.0
30°	1886.8	2017.8	2113.7	2227.5	2305.6	2392.0	2406.7	2415.8
32.5°	1818.7	1962.9	2069.0	2193.4	2277.7	2367.6	2380.3	2387.4
35°	1744.6	1896.4	2015.2	2149.8	2241.7	2328.5	2338.1	2345.8
37.5°	1663.9	1824.3	1953.8	2100.5	2190.9	2274.2	2282.8	2291.4
40°	1580.6	1748.7	1884.7	2040.1	2130.5	2207.7	2216.8	2222.9
42.5°	1496.8	1664.9	1811.1	1969.0	2058.9	2133.0	2138.6	2144.7
45°	1412.0	1578.1	1728.3	1890.3	1979.2	2048.7	2050.8	2055.8
47.5°	1325.7	1488.2	1637.5	1800.4	1888.3	1951.8	1953.8	1957.8
50°	1238.9	1398.3	1540.5	1703.5	1789.3	1856.3	1847.2	1851.2
52.5°	1153.6	1303.9	1449.1	1598.9	1683.7	1743.1	1745.6	1737.5
55°	1069.8	1211.5	1345.0	1489.2	1569.9	1616.1	1614.6	1617.7
57.5°	985.0	1118.0	1240.4	1372.4	1451.1	1494.8	1503.9	1493.3
60°	898.7	1023.6	1133.3	1252.6	1328.8	1365.3	1376.0	1365.8
62.5°	812.9	927.6	1027.2	1131.2	1201.8	1247.0	1246.0	1234.8
65°	727.1	831.2	920.0	1008.4	1069.8	1115.0	1113.0	1102.8
67.5°	647.9	733.7	813.4	885.0	938.3	969.3	979.9	967.8
70°	560.5	634.7	704.7	762.1	806.3	834.2	844.4	833.7
72.5°	473.2	536.2	585.4	640.8	674.8	698.1	708.8	698.7
75°	386.9	438.7	478.8	522.0	545.8	565.6	577.8	567.7
77.5°	303.1	343.2	375.2	406.7	434.1	438.7	449.3	442.7
80°	223.4	252.3	275.7	296.5	316.3	318.4	327.0	322.9
82.5°	148.8	168.1	174.2	196.0	208.7	206.7	215.3	212.2
85°	78.7	90.4	101.0	107.6	114.7	108.1	115.8	112.7
87.5°	26.4	27.9	24.4	34.5	38.1	32.5	37.1	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)