

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: P837980

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-30-120-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: P837980
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-LD4-6LO-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

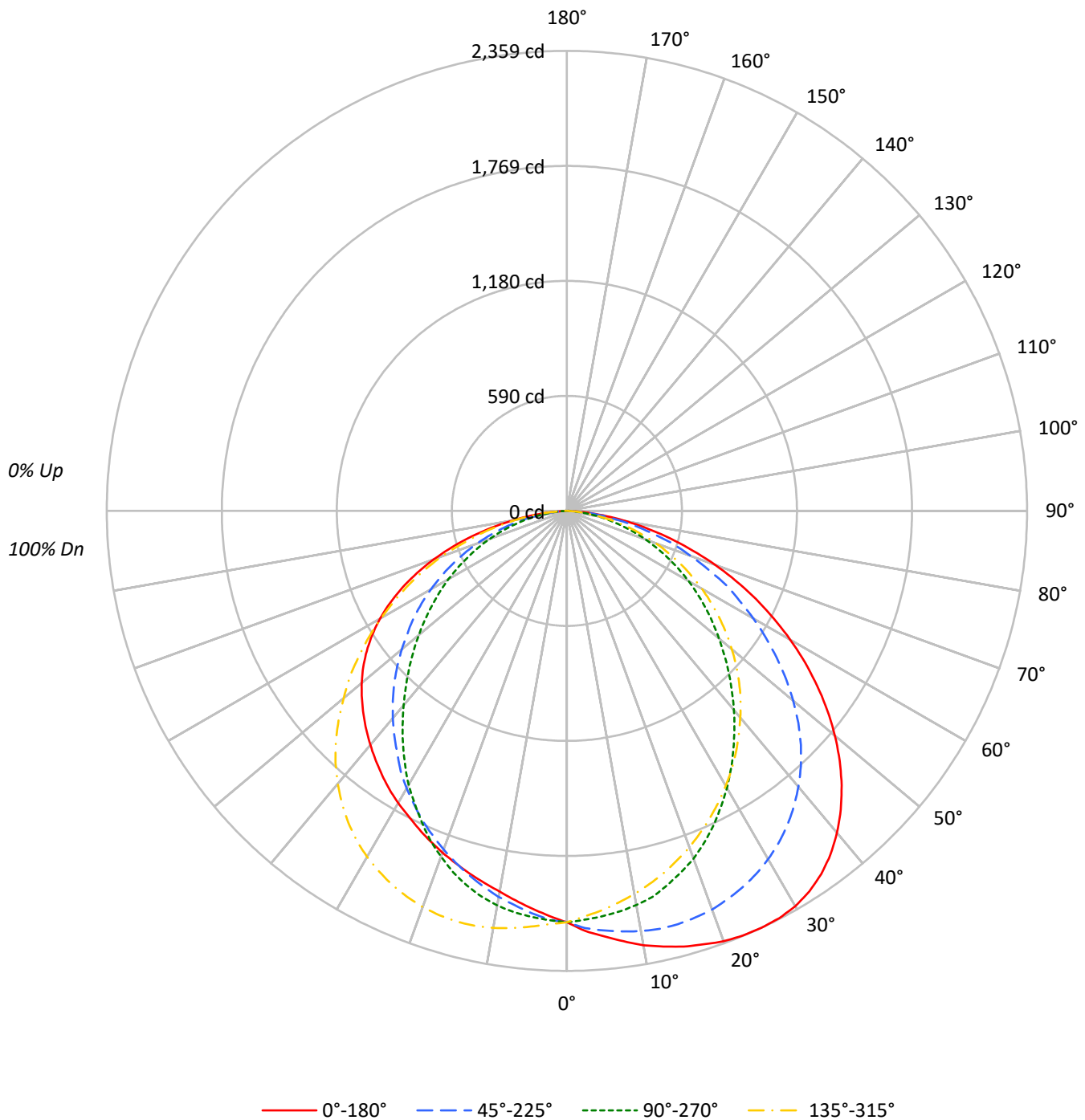
Lumens per Lamp: N/A
Luminaire Lumens: 6188.6 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5676	5676	5676	5676
5°	5916	5635	5529	5645
10°	6179	5607	5417	5614
15°	6444	5535	5364	5536
20°	6725	5435	5340	5404
25°	7004	5283	5340	5229
30°	7274	5099	5376	5042
35°	7468	4890	5430	4812
40°	7567	4679	5505	4573
45°	7582	4466	5612	4354
50°	7510	4262	5749	4149
55°	7355	4072	5877	3959
60°	7124	3874	5956	3774
65°	6805	3647	5924	3562
70°	6356	3379	5714	3318
75°	5719	3013	5243	2997
80°	4849	2524	4407	2562
85°	3372	1670	2794	1717

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	3.2
10°-20°	579.9	9.4
20°-30°	888.8	14.4
30°-40°	1080.7	17.5
40°-50°	1123.4	18.2
50°-60°	1014.8	16.4
60°-70°	771.5	12.5
70°-80°	430.1	7.0
80°-90°	99.0	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°	1669.0	27.0
0°-40°	2749.7	44.4
0°-60°	4887.9	79.0
0°-90°	6188.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6188.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2109	2109	2109	2109	2109	
5°	2190	2086	2047	2090	2190	211
15°	2313	1987	1925	1987	2313	656
25°	2359	1779	1798	1761	2359	1089
35°	2273	1488	1653	1465	2273	1420
45°	1992	1174	1475	1144	1992	1534
55°	1568	868	1253	844	1568	1399
65°	1069	573	930	559	1069	1056
75°	550	290	504	288	550	584
85°	109	54	90	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°	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4
2.5°	2156.1	2124.6	2125.1	2152.7	2131.5	2141.8	2112.3	2123.6	2120.2	2122.6	2098.5
5°	2190.1	2156.1	2155.6	2179.2	2155.6	2160.0	2122.6	2130.0	2119.2	2112.3	2086.2
7.5°	2226.0	2192.0	2188.6	2209.2	2178.2	2174.8	2133.5	2133.5	2113.8	2096.6	2072.0
10°	2261.4	2226.5	2222.0	2237.8	2199.4	2188.1	2137.9	2130.0	2103.9	2078.4	2051.8
12.5°	2288.0	2252.5	2249.1	2258.9	2215.6	2195.0	2137.9	2122.6	2084.3	2048.3	2027.7
15°	2313.1	2276.7	2267.3	2272.2	2222.5	2195.0	2131.0	2107.4	2058.2	2011.0	1986.8
17.5°	2330.8	2295.8	2286.5	2286.0	2226.0	2186.6	2116.3	2083.8	2024.7	1967.7	1943.5
20°	2348.5	2313.6	2301.7	2292.9	2225.0	2175.3	2094.6	2050.8	1981.9	1918.0	1897.8
22.5°	2357.3	2321.4	2308.6	2295.4	2218.6	2154.6	2068.0	2012.4	1933.7	1857.4	1840.7
25°	2358.8	2321.9	2308.1	2289.0	2205.8	2130.0	2033.6	1966.2	1878.1	1793.5	1779.2
27.5°	2354.9	2314.5	2300.8	2277.6	2186.6	2100.0	1992.7	1913.5	1819.1	1725.6	1710.3
30°	2341.1	2300.3	2287.0	2257.0	2159.5	2063.1	1948.0	1855.0	1753.6	1654.2	1640.9
32.5°	2313.6	2273.7	2262.9	2232.9	2130.0	2020.3	1895.8	1792.0	1681.3	1586.3	1566.6
35°	2273.2	2233.4	2226.5	2195.0	2088.7	1969.1	1838.7	1723.1	1604.5	1507.6	1488.4
37.5°	2220.6	2187.1	2176.8	2145.8	2040.0	1911.1	1773.3	1648.3	1526.3	1422.0	1410.2
40°	2154.1	2122.6	2114.8	2087.2	1983.4	1846.6	1702.4	1571.1	1445.6	1348.7	1331.9
42.5°	2078.4	2048.8	2044.4	2015.9	1913.5	1775.3	1625.7	1490.9	1361.5	1268.0	1251.2
45°	1992.3	1963.7	1962.7	1935.7	1837.3	1696.1	1545.0	1409.7	1279.3	1182.4	1173.5
47.5°	1897.3	1871.7	1871.7	1846.6	1752.1	1609.0	1461.8	1325.1	1196.6	1111.0	1095.3
50°	1794.0	1769.9	1762.5	1750.2	1658.2	1514.0	1374.3	1242.4	1115.0	1033.3	1018.0
52.5°	1683.8	1663.1	1668.0	1645.4	1556.3	1415.1	1285.7	1149.4	1032.8	958.5	943.2
55°	1567.6	1538.1	1542.5	1534.2	1450.0	1313.2	1186.3	1072.6	952.1	882.2	868.0
57.5°	1447.1	1408.7	1424.4	1419.5	1336.9	1208.9	1095.3	985.5	871.9	807.4	793.7
60°	1323.6	1286.7	1302.9	1298.5	1220.7	1104.6	1001.3	899.4	792.2	733.6	719.8
62.5°	1196.6	1162.7	1177.4	1174.0	1102.7	997.9	907.8	814.3	712.0	659.3	646.5
65°	1068.7	1036.2	1049.5	1047.1	981.1	901.4	811.9	726.2	631.3	585.5	572.7
67.5°	937.8	907.8	920.1	920.1	859.6	783.3	715.4	637.2	552.1	512.7	500.9
70°	807.9	779.9	790.7	789.7	738.5	676.6	618.0	548.1	471.9	439.4	429.5
72.5°	677.0	652.4	662.3	661.3	618.5	578.6	520.6	460.1	393.6	367.6	358.7
75°	550.1	527.0	536.3	535.3	500.4	463.0	424.1	373.9	316.9	298.7	289.8
77.5°	429.1	405.4	413.3	413.3	387.7	360.7	329.7	290.8	250.4	230.8	224.4
80°	312.9	301.6	297.7	298.2	281.0	263.2	247.5	210.1	180.6	167.3	162.9
82.5°	205.7	196.3	192.4	193.4	183.5	172.7	162.9	136.8	117.1	109.2	106.8
85°	109.2	102.3	98.9	101.4	99.4	93.5	88.6	70.9	58.6	55.6	54.1
87.5°	34.4	30.0	27.6	36.4	31.0	27.6	26.6	21.2	16.2	16.2	15.7
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°	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4
2.5°	2106.4	2106.4	2087.2	2082.8	2080.8	2083.3	2064.1	2060.7	2088.2	2078.9	2057.7
5°	2089.7	2088.7	2061.6	2056.7	2056.7	2053.8	2032.1	2027.2	2054.7	2046.9	2023.7
7.5°	2069.0	2066.1	2034.1	2030.6	2025.7	2023.7	1999.6	1996.2	2019.8	2014.9	1993.2
10°	2043.9	2041.0	2003.1	2000.6	1995.2	1991.3	1968.6	1966.2	1990.3	1982.4	1965.2
12.5°	2011.0	2005.5	1966.7	1964.2	1959.8	1958.3	1936.2	1935.2	1961.8	1953.9	1935.7
15°	1967.7	1963.2	1919.9	1920.9	1921.4	1921.4	1903.7	1902.7	1928.8	1925.3	1905.7
17.5°	1919.9	1914.0	1872.7	1875.6	1879.1	1883.0	1869.2	1871.7	1899.3	1894.8	1877.1
20°	1865.8	1859.9	1819.6	1827.9	1835.3	1843.2	1834.3	1841.2	1866.8	1864.8	1851.5
22.5°	1805.3	1799.4	1762.0	1774.8	1787.1	1801.8	1797.9	1805.8	1832.8	1832.3	1820.5
25°	1731.5	1733.0	1700.0	1715.7	1736.4	1757.1	1758.5	1771.3	1801.3	1798.4	1787.6
27.5°	1662.6	1664.6	1629.6	1656.2	1683.8	1710.3	1716.7	1734.4	1764.9	1762.5	1753.1
30°	1590.3	1592.7	1558.8	1595.2	1628.6	1661.1	1674.9	1699.0	1730.0	1730.0	1720.2
32.5°	1515.0	1519.4	1484.0	1532.7	1571.6	1609.5	1633.6	1658.7	1694.1	1693.1	1684.7
35°	1437.7	1442.7	1410.2	1472.2	1511.0	1557.3	1587.3	1620.8	1652.3	1652.8	1646.4
37.5°	1359.0	1364.9	1335.4	1403.3	1447.6	1502.2	1540.6	1574.0	1609.0	1610.9	1605.0
40°	1280.8	1287.2	1261.6	1327.0	1383.1	1444.1	1488.4	1527.8	1566.2	1567.1	1563.2
42.5°	1202.5	1209.4	1190.2	1254.2	1317.7	1383.1	1435.3	1480.0	1519.4	1521.9	1517.4
45°	1126.3	1132.2	1118.4	1188.3	1249.3	1320.6	1380.7	1431.3	1471.2	1474.6	1473.2
47.5°	1050.5	1055.9	1043.6	1107.6	1177.9	1253.7	1323.1	1379.2	1421.5	1425.4	1424.4
50°	976.2	980.6	967.3	1034.3	1104.1	1184.8	1257.2	1322.1	1369.3	1373.3	1372.8
52.5°	902.4	906.8	895.5	965.9	1029.3	1114.5	1193.2	1263.6	1310.3	1316.2	1317.2
55°	831.1	833.0	824.2	891.6	953.1	1042.1	1132.7	1201.1	1247.8	1252.7	1255.7
57.5°	759.7	760.2	752.8	817.3	876.3	967.3	1062.3	1134.1	1178.4	1183.3	1187.8
60°	688.9	688.4	680.0	742.5	799.1	889.1	988.0	1059.4	1102.2	1106.6	1112.5
62.5°	618.5	617.0	609.6	667.2	720.3	809.4	908.8	977.7	1018.5	1021.5	1029.3
65°	548.6	547.1	540.3	593.4	641.6	726.7	824.2	889.6	926.5	930.4	929.0
67.5°	479.7	476.8	471.4	519.1	562.9	641.6	735.1	797.6	828.1	831.5	840.9
70°	410.9	407.4	395.1	445.8	484.2	554.5	641.6	697.2	722.8	726.2	724.8
72.5°	342.9	339.5	326.2	373.0	405.4	466.9	544.7	590.9	613.1	616.0	616.0
75°	277.0	275.0	266.7	302.1	329.2	379.4	445.3	483.7	500.9	504.3	503.4
77.5°	213.5	212.1	203.7	234.2	255.4	292.8	345.9	375.9	388.7	392.6	401.0
80°	153.0	152.5	139.2	169.3	178.6	210.1	249.0	272.1	279.0	284.4	290.3
82.5°	97.9	98.4	85.1	110.7	114.6	134.8	158.9	173.2	178.1	182.5	187.0
85°	47.7	49.7	42.3	58.6	59.0	69.4	79.7	85.1	87.1	90.5	94.5
87.5°	12.3	14.3	7.9	16.7	14.8	19.2	22.1	23.6	23.1	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°	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4
2.5°	2064.6	2080.3	2072.5	2098.0	2107.9	2092.1	2119.7	2120.2	2100.5	2123.6	2136.4
5°	2032.6	2048.8	2043.9	2070.5	2082.8	2069.0	2102.5	2108.9	2089.7	2115.8	2136.4
7.5°	2000.1	2019.3	2012.9	2040.0	2054.7	2043.9	2079.8	2090.2	2075.4	2103.9	2131.5
10°	1972.1	1988.3	1981.4	2010.0	2022.8	2013.9	2049.3	2068.5	2054.7	2089.7	2122.6
12.5°	1944.5	1957.8	1949.9	1973.6	1985.9	1974.5	2017.8	2035.6	2025.7	2062.1	2104.4
15°	1909.1	1923.9	1913.0	1934.2	1943.5	1933.7	1969.1	1999.6	1987.3	2027.2	2073.9
17.5°	1882.0	1890.4	1875.6	1892.4	1897.8	1884.5	1920.4	1950.4	1941.6	1984.9	2039.0
20°	1852.0	1858.9	1838.2	1847.6	1847.1	1830.4	1863.3	1892.9	1887.0	1934.7	1996.2
22.5°	1818.6	1822.0	1797.9	1799.9	1798.9	1771.3	1800.9	1830.9	1828.4	1876.6	1945.5
25°	1783.1	1783.6	1752.6	1751.7	1740.8	1708.4	1734.4	1768.4	1761.0	1813.2	1885.5
27.5°	1748.2	1743.3	1705.9	1697.0	1679.8	1640.9	1664.1	1694.6	1690.1	1741.3	1821.5
30°	1710.8	1704.4	1658.7	1642.4	1617.3	1572.5	1591.7	1620.3	1622.7	1667.5	1751.7
32.5°	1675.4	1659.1	1608.5	1584.9	1553.4	1501.2	1511.5	1540.6	1544.5	1589.8	1676.4
35°	1629.6	1618.8	1556.3	1516.0	1485.0	1427.9	1438.7	1458.9	1464.8	1509.1	1597.2
37.5°	1586.3	1569.1	1502.7	1453.5	1413.6	1353.6	1356.5	1377.2	1383.1	1427.9	1515.0
40°	1541.6	1516.9	1445.6	1388.0	1342.3	1279.3	1275.9	1297.5	1301.9	1345.7	1424.4
42.5°	1493.8	1464.3	1384.1	1321.1	1268.5	1204.5	1197.6	1216.3	1221.2	1264.0	1341.3
45°	1445.6	1410.2	1321.1	1252.2	1194.7	1129.2	1122.3	1136.6	1144.0	1184.3	1258.6
47.5°	1394.4	1353.1	1256.2	1179.4	1119.9	1054.4	1046.1	1060.3	1066.2	1106.1	1176.5
50°	1340.8	1290.6	1189.3	1104.6	1045.6	981.1	968.8	985.5	991.0	1028.4	1097.2
52.5°	1281.8	1226.2	1117.9	1029.3	970.3	908.8	894.0	910.3	916.7	953.1	1016.5
55°	1219.3	1159.2	1046.1	960.0	896.0	836.0	823.7	830.1	843.8	878.3	937.3
57.5°	1148.9	1089.4	970.3	882.7	821.2	763.6	753.3	759.2	772.0	805.5	858.6
60°	1074.1	1011.1	893.0	805.5	745.9	691.3	682.0	687.4	701.2	731.7	780.9
62.5°	1000.3	929.5	813.3	726.2	672.1	621.4	619.0	617.0	629.8	659.3	702.6
65°	910.8	842.9	730.2	647.5	598.3	552.6	542.7	547.1	559.4	586.5	631.8
67.5°	814.8	753.3	645.1	568.8	525.0	484.2	475.8	477.8	490.6	514.2	553.5
70°	713.0	658.8	558.0	489.6	452.7	414.3	408.9	409.4	421.7	442.3	476.8
72.5°	606.2	557.5	469.9	411.3	380.8	353.3	348.4	342.5	353.8	371.5	401.0
75°	497.4	454.6	382.3	334.6	310.5	287.3	282.9	277.0	288.3	303.6	326.7
77.5°	387.7	353.3	297.2	260.3	241.6	224.4	220.4	214.0	225.4	236.7	254.9
80°	280.5	255.4	221.9	183.0	176.6	165.3	161.4	154.5	165.3	172.7	186.5
82.5°	181.1	164.3	145.2	118.1	117.1	108.7	106.8	98.9	108.7	113.2	123.5
85°	91.5	83.6	78.7	60.0	62.0	56.6	56.1	47.7	55.6	57.6	63.5
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: P837980

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6LO-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4	2109.4
2.5°	2111.3	2119.7	2121.7	2121.2	2126.6	2156.1	2146.3	2156.1
5°	2116.3	2134.9	2139.9	2146.8	2155.6	2189.1	2178.2	2190.1
7.5°	2119.2	2147.2	2158.1	2171.4	2185.6	2223.0	2214.2	2226.0
10°	2119.2	2155.6	2171.4	2193.5	2212.7	2256.0	2247.6	2261.4
12.5°	2110.3	2157.1	2179.2	2210.2	2234.8	2281.6	2278.1	2288.0
15°	2092.1	2149.7	2180.2	2220.1	2250.6	2302.7	2301.3	2313.1
17.5°	2067.5	2136.9	2173.8	2224.0	2262.4	2320.9	2324.4	2330.8
20°	2036.5	2112.8	2161.0	2222.5	2270.8	2335.2	2339.6	2348.5
22.5°	1995.7	2083.8	2141.8	2216.1	2271.7	2341.1	2349.0	2357.3
25°	1947.5	2048.8	2116.7	2203.8	2266.8	2340.6	2351.4	2358.8
27.5°	1892.4	2003.6	2084.8	2184.2	2253.0	2332.7	2346.0	2354.9
30°	1828.4	1955.4	2048.3	2158.6	2234.3	2318.0	2332.3	2341.1
32.5°	1762.5	1902.2	2005.1	2125.6	2207.3	2294.4	2306.7	2313.6
35°	1690.6	1837.8	1952.9	2083.3	2172.3	2256.5	2265.8	2273.2
37.5°	1612.4	1767.9	1893.4	2035.6	2123.1	2203.8	2212.2	2220.6
40°	1531.7	1694.6	1826.4	1977.0	2064.6	2139.4	2148.2	2154.1
42.5°	1450.5	1613.4	1755.1	1908.1	1995.2	2067.0	2072.5	2078.4
45°	1368.4	1529.3	1674.9	1831.9	1918.0	1985.4	1987.3	1992.3
47.5°	1284.7	1442.2	1586.8	1744.8	1829.9	1891.4	1893.4	1897.3
50°	1200.6	1355.1	1492.8	1650.8	1733.9	1798.9	1790.0	1794.0
52.5°	1117.9	1263.6	1404.3	1549.4	1631.6	1689.2	1691.6	1683.8
55°	1036.7	1174.0	1303.4	1443.1	1521.4	1566.2	1564.7	1567.6
57.5°	954.6	1083.5	1202.0	1330.0	1406.2	1448.6	1457.4	1447.1
60°	870.9	991.9	1098.2	1213.9	1287.7	1323.1	1333.4	1323.6
62.5°	787.8	899.0	995.4	1096.3	1164.7	1208.4	1207.5	1196.6
65°	704.6	805.5	891.6	977.2	1036.7	1080.5	1078.5	1068.7
67.5°	627.8	711.0	788.2	857.6	909.3	939.3	949.6	937.8
70°	543.2	615.0	682.9	738.5	781.4	808.4	818.3	807.9
72.5°	458.6	519.6	567.3	621.0	653.9	676.6	686.9	677.0
75°	374.9	425.1	464.0	505.8	528.9	548.1	559.9	550.1
77.5°	293.7	332.6	363.6	394.1	420.7	425.1	435.5	429.1
80°	216.5	244.5	267.2	287.3	306.5	308.5	316.9	312.9
82.5°	144.2	162.9	168.8	189.9	202.2	200.3	208.6	205.7
85°	76.3	87.6	97.9	104.3	111.2	104.8	112.2	109.2
87.5°	25.6	27.1	23.6	33.5	36.9	31.5	35.9	34.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)