

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: P838185

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2STD-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: P838185
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-LD4-2STD-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

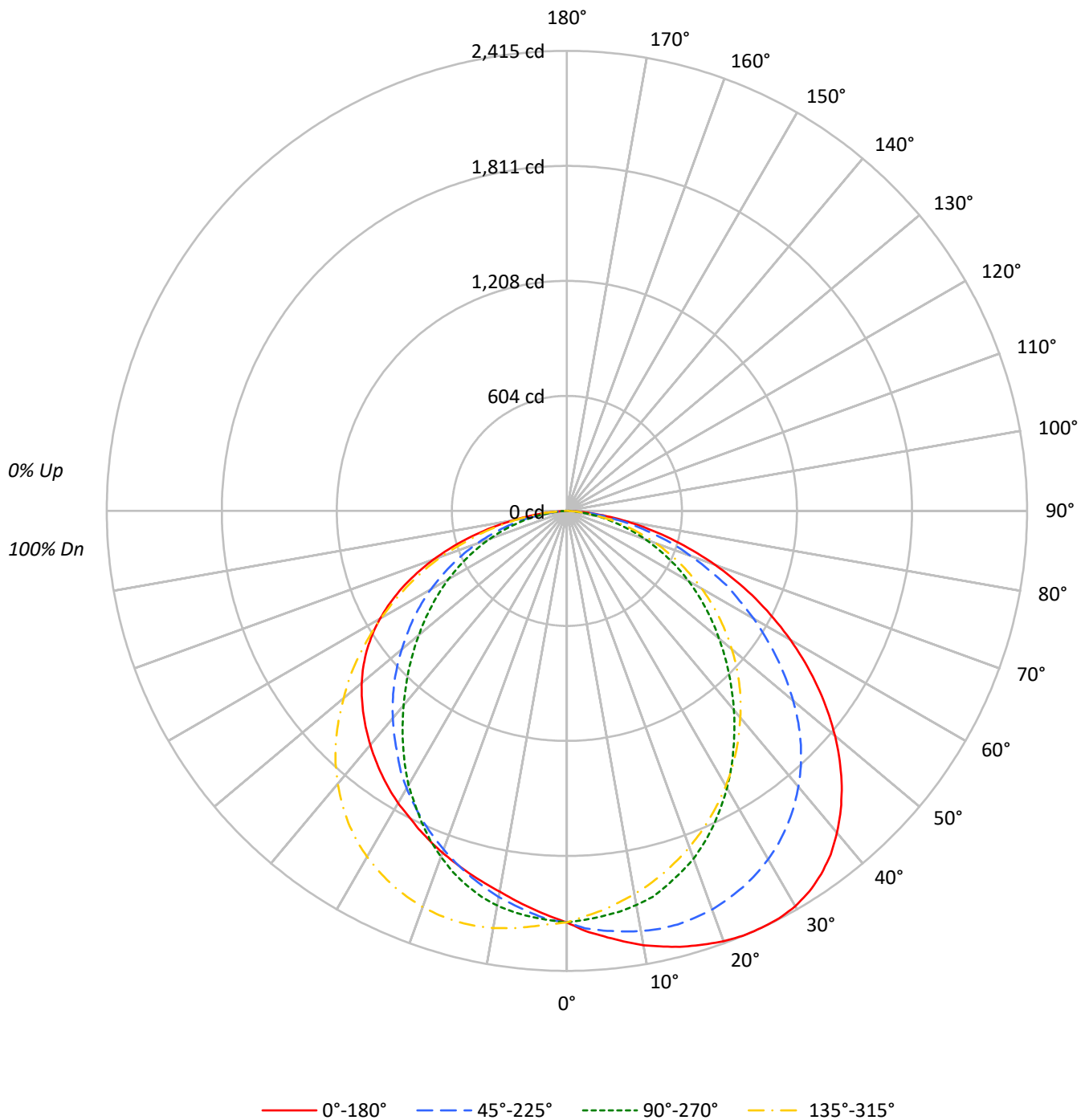
Lumens per Lamp: N/A
Luminaire Lumens: 6336.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2906	2906	2906	2906
5°	3029	2885	2831	2890
10°	3164	2870	2773	2874
15°	3299	2834	2746	2834
20°	3443	2782	2734	2766
25°	3586	2704	2734	2677
30°	3724	2610	2752	2581
35°	3823	2503	2780	2463
40°	3874	2395	2818	2341
45°	3882	2286	2873	2229
50°	3845	2182	2943	2124
55°	3765	2085	3009	2027
60°	3647	1984	3049	1932
65°	3484	1867	3033	1824
70°	3254	1730	2925	1699
75°	2928	1542	2685	1535
80°	2483	1292	2256	1312
85°	1726	855	1431	878

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	3.2
10°-20°	593.8	9.4
20°-30°	910.0	14.4
30°-40°	1106.5	17.5
40°-50°	1150.3	18.2
50°-60°	1039.1	16.4
60°-70°	790.0	12.5
70°-80°	440.4	7.0
80°-90°	101.4	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°	1708.9	27.0
0°-40°	2815.4	44.4
0°-60°	5004.8	79.0
0°-90°	6336.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6336.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2160	2160	2160	2160	2160	
5°	2242	2136	2096	2140	2242	216
15°	2368	2034	1971	2035	2368	672
25°	2415	1822	1841	1803	2415	1116
35°	2328	1524	1692	1500	2328	1454
45°	2040	1202	1510	1171	2040	1571
55°	1605	889	1283	864	1605	1433
65°	1094	586	953	573	1094	1081
75°	563	297	516	295	563	598
85°	112	55	93	57	112	141
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°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2207.7	2175.4	2175.9	2204.1	2182.5	2193.0	2162.8	2174.4	2170.9	2173.4	2148.7
5°	2242.4	2207.7	2207.1	2231.3	2207.1	2211.7	2173.4	2181.0	2169.9	2162.8	2136.1
7.5°	2279.2	2244.4	2240.9	2262.1	2230.3	2226.8	2184.5	2184.5	2164.3	2146.7	2121.5
10°	2315.5	2279.7	2275.2	2291.3	2252.0	2240.4	2189.0	2181.0	2154.2	2128.1	2100.8
12.5°	2342.7	2306.4	2302.9	2312.9	2268.6	2247.5	2189.0	2173.4	2134.1	2097.3	2076.2
15°	2368.4	2331.1	2321.5	2326.5	2275.7	2247.5	2182.0	2157.8	2107.4	2059.0	2034.3
17.5°	2386.5	2350.7	2341.2	2340.7	2279.2	2238.9	2166.8	2133.6	2073.1	2014.7	1990.0
20°	2404.6	2368.9	2356.8	2347.7	2278.2	2227.3	2144.7	2099.8	2029.3	1963.8	1943.2
22.5°	2413.7	2376.9	2363.8	2350.2	2271.6	2206.1	2117.5	2060.5	1979.9	1901.8	1884.7
25°	2415.2	2377.4	2363.3	2343.7	2258.5	2181.0	2082.2	2013.2	1923.0	1836.4	1821.7
27.5°	2411.2	2369.9	2355.8	2332.1	2238.9	2150.2	2040.4	1959.3	1862.5	1766.8	1751.2
30°	2397.1	2355.3	2341.7	2310.9	2211.2	2112.4	1994.5	1899.3	1795.5	1693.8	1680.2
32.5°	2368.9	2328.1	2317.0	2286.2	2181.0	2068.6	1941.1	1834.8	1721.5	1624.3	1604.1
35°	2327.6	2286.7	2279.7	2247.5	2138.6	2016.2	1882.7	1764.3	1642.9	1543.6	1524.0
37.5°	2273.7	2239.4	2228.8	2197.1	2088.8	1956.8	1815.7	1687.7	1562.8	1456.0	1443.9
40°	2205.6	2173.4	2165.3	2137.1	2030.8	1890.8	1743.1	1608.6	1480.2	1380.9	1363.8
42.5°	2128.1	2097.8	2093.3	2064.1	1959.3	1817.7	1664.6	1526.5	1394.0	1298.3	1281.2
45°	2039.9	2010.7	2009.7	1982.0	1881.2	1736.6	1581.9	1443.4	1309.9	1210.6	1201.6
47.5°	1942.7	1916.5	1916.5	1890.8	1794.0	1647.4	1496.8	1356.7	1225.2	1137.6	1121.5
50°	1836.9	1812.2	1804.6	1792.0	1697.8	1550.2	1407.1	1272.1	1141.6	1058.0	1042.4
52.5°	1724.0	1702.8	1707.9	1684.7	1593.5	1448.9	1316.4	1176.9	1057.5	981.4	965.8
55°	1605.1	1574.9	1579.4	1570.8	1484.7	1344.6	1214.7	1098.3	974.9	903.3	888.7
57.5°	1481.7	1442.4	1458.5	1453.5	1368.8	1237.8	1121.5	1009.1	892.7	826.7	812.6
60°	1355.2	1317.4	1334.1	1329.5	1249.9	1131.0	1025.2	920.9	811.1	751.2	737.1
62.5°	1225.2	1190.5	1205.6	1202.1	1129.0	1021.7	929.5	833.8	729.0	675.1	662.0
65°	1094.3	1061.0	1074.6	1072.1	1004.6	923.0	831.3	743.6	646.4	599.5	586.4
67.5°	960.2	929.5	942.1	942.1	880.1	802.1	732.5	652.4	565.3	525.0	512.9
70°	827.2	798.5	809.6	808.6	756.2	692.7	632.8	561.2	483.1	449.9	439.8
72.5°	693.2	668.0	678.1	677.1	633.3	592.5	533.0	471.1	403.0	376.3	367.3
75°	563.2	539.6	549.1	548.1	512.4	474.1	434.3	382.9	324.4	305.8	296.7
77.5°	439.3	415.1	423.2	423.2	397.0	369.3	337.5	297.7	256.4	236.3	229.7
80°	320.4	308.8	304.8	305.3	287.7	269.5	253.4	215.1	184.9	171.3	166.8
82.5°	210.6	201.0	197.0	198.0	187.9	176.8	166.8	140.1	119.9	111.8	109.3
85°	111.8	104.8	101.3	103.8	101.8	95.7	90.7	72.5	60.0	56.9	55.4
87.5°	35.3	30.7	28.2	37.3	31.7	28.2	27.2	21.7	16.6	16.6	16.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2156.8	2156.8	2137.1	2132.6	2130.6	2133.1	2113.4	2109.9	2138.1	2128.6	2106.9
5°	2139.6	2138.6	2110.9	2105.9	2105.9	2102.9	2080.7	2075.7	2103.9	2095.8	2072.1
7.5°	2118.5	2115.5	2082.7	2079.2	2074.1	2072.1	2047.4	2043.9	2068.1	2063.1	2040.9
10°	2092.8	2089.8	2051.0	2048.5	2042.9	2038.9	2015.7	2013.2	2037.9	2029.8	2012.2
12.5°	2059.0	2053.5	2013.7	2011.2	2006.6	2005.1	1982.5	1981.4	2008.7	2000.6	1982.0
15°	2014.7	2010.2	1965.8	1966.8	1967.3	1967.3	1949.2	1948.2	1974.9	1971.4	1951.2
17.5°	1965.8	1959.8	1917.5	1920.5	1924.0	1928.0	1913.9	1916.5	1944.7	1940.1	1922.0
20°	1910.4	1904.4	1863.1	1871.6	1879.2	1887.2	1878.2	1885.2	1911.4	1909.4	1895.8
22.5°	1848.4	1842.4	1804.1	1817.2	1829.8	1844.9	1840.9	1848.9	1876.7	1876.2	1864.1
25°	1772.9	1774.4	1740.6	1756.8	1777.9	1799.1	1800.6	1813.7	1844.4	1841.4	1830.3
27.5°	1702.3	1704.4	1668.6	1695.8	1724.0	1751.2	1757.8	1775.9	1807.1	1804.6	1795.0
30°	1628.3	1630.8	1596.0	1633.3	1667.6	1700.8	1714.9	1739.6	1771.4	1771.4	1761.3
32.5°	1551.2	1555.7	1519.5	1569.3	1609.1	1647.9	1672.6	1698.3	1734.6	1733.6	1725.0
35°	1472.1	1477.1	1443.9	1507.4	1547.2	1594.5	1625.3	1659.5	1691.8	1692.3	1685.7
37.5°	1391.5	1397.5	1367.3	1436.8	1482.2	1538.1	1577.4	1611.7	1647.4	1649.4	1643.4
40°	1311.4	1317.9	1291.7	1358.7	1416.2	1478.7	1524.0	1564.3	1603.6	1604.6	1600.6
42.5°	1231.3	1238.3	1218.7	1284.2	1349.2	1416.2	1469.6	1515.4	1555.7	1558.3	1553.7
45°	1153.2	1159.2	1145.1	1216.7	1279.1	1352.2	1413.7	1465.6	1506.4	1509.9	1508.4
47.5°	1075.6	1081.2	1068.6	1134.1	1206.1	1283.7	1354.7	1412.2	1455.5	1459.5	1458.5
50°	999.5	1004.1	990.5	1059.0	1130.5	1213.2	1287.2	1353.7	1402.1	1406.1	1405.6
52.5°	924.0	928.5	916.9	989.0	1054.0	1141.1	1221.7	1293.8	1341.6	1347.7	1348.7
55°	850.9	852.9	843.9	912.9	975.9	1067.0	1159.7	1229.8	1277.6	1282.7	1285.7
57.5°	777.9	778.4	770.8	836.8	897.3	990.5	1087.7	1161.3	1206.6	1211.6	1216.2
60°	705.3	704.8	696.3	760.2	818.2	910.4	1011.6	1084.7	1128.5	1133.0	1139.1
62.5°	633.3	631.8	624.2	683.2	737.6	828.8	930.5	1001.1	1042.9	1045.9	1054.0
65°	561.7	560.2	553.2	607.6	657.0	744.1	843.9	910.9	948.7	952.7	951.2
67.5°	491.2	488.2	482.6	531.5	576.3	657.0	752.7	816.7	847.9	851.4	861.0
70°	420.7	417.1	404.6	456.4	495.7	567.8	657.0	713.9	740.1	743.6	742.1
72.5°	351.1	347.6	334.0	381.9	415.1	478.1	557.7	605.1	627.7	630.8	630.8
75°	283.6	281.6	273.1	309.3	337.0	388.4	455.9	495.2	512.9	516.4	515.4
77.5°	218.6	217.1	208.6	239.8	261.5	299.8	354.2	384.9	398.0	402.0	410.6
80°	156.7	156.2	142.6	173.3	182.9	215.1	254.9	278.6	285.7	291.2	297.2
82.5°	100.3	100.8	87.2	113.4	117.4	138.0	162.7	177.3	182.4	186.9	191.4
85°	48.9	50.9	43.3	60.0	60.5	71.0	81.6	87.2	89.2	92.7	96.7
87.5°	12.6	14.6	8.1	17.1	15.1	19.6	22.7	24.2	23.7	26.2	27.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2113.9	2130.1	2122.0	2148.2	2158.3	2142.2	2170.4	2170.9	2150.7	2174.4	2187.5
5°	2081.2	2097.8	2092.8	2120.0	2132.6	2118.5	2152.7	2159.3	2139.6	2166.3	2187.5
7.5°	2047.9	2067.6	2061.0	2088.8	2103.9	2092.8	2129.6	2140.1	2125.0	2154.2	2182.5
10°	2019.2	2035.9	2028.8	2058.0	2071.1	2062.1	2098.3	2118.0	2103.9	2139.6	2173.4
12.5°	1991.0	2004.6	1996.6	2020.7	2033.3	2021.8	2066.1	2084.2	2074.1	2111.4	2154.8
15°	1954.7	1969.9	1958.8	1980.4	1990.0	1979.9	2016.2	2047.4	2034.8	2075.7	2123.5
17.5°	1927.0	1935.6	1920.5	1937.6	1943.2	1929.6	1966.3	1997.1	1988.0	2032.3	2087.7
20°	1896.3	1903.4	1882.2	1891.8	1891.3	1874.1	1907.9	1938.1	1932.1	1980.9	2043.9
22.5°	1862.0	1865.6	1840.9	1842.9	1841.9	1813.7	1843.9	1874.6	1872.1	1921.5	1992.0
25°	1825.8	1826.3	1794.5	1793.5	1782.4	1749.2	1775.9	1810.7	1803.1	1856.5	1930.6
27.5°	1790.0	1785.0	1746.7	1737.6	1720.0	1680.2	1703.9	1735.1	1730.6	1782.9	1865.1
30°	1751.7	1745.2	1698.3	1681.7	1656.0	1610.1	1629.8	1659.0	1661.5	1707.4	1793.5
32.5°	1715.4	1698.8	1646.9	1622.7	1590.5	1537.1	1547.7	1577.4	1581.4	1627.8	1716.4
35°	1668.6	1657.5	1593.5	1552.2	1520.5	1462.0	1473.1	1493.8	1499.8	1545.2	1635.3
37.5°	1624.3	1606.6	1538.6	1488.2	1447.4	1386.0	1389.0	1410.1	1416.2	1462.0	1551.2
40°	1578.4	1553.2	1480.2	1421.2	1374.4	1309.9	1306.4	1328.5	1333.1	1377.9	1458.5
42.5°	1529.5	1499.3	1417.2	1352.7	1298.8	1233.3	1226.2	1245.4	1250.4	1294.3	1373.4
45°	1480.2	1443.9	1352.7	1282.2	1223.2	1156.2	1149.2	1163.8	1171.3	1212.6	1288.7
47.5°	1427.8	1385.5	1286.2	1207.6	1146.6	1079.6	1071.1	1085.7	1091.7	1132.5	1204.6
50°	1372.9	1321.5	1217.7	1131.0	1070.6	1004.6	992.0	1009.1	1014.7	1052.9	1123.5
52.5°	1312.4	1255.5	1144.6	1054.0	993.5	930.5	915.4	932.0	938.6	975.9	1040.9
55°	1248.4	1187.0	1071.1	982.9	917.4	856.0	843.4	849.9	864.0	899.3	959.7
57.5°	1176.4	1115.4	993.5	903.8	840.8	781.9	771.3	777.4	790.5	824.7	879.1
60°	1099.8	1035.3	914.4	824.7	763.8	707.8	698.3	703.8	717.9	749.2	799.5
62.5°	1024.2	951.7	832.8	743.6	688.2	636.3	633.8	631.8	644.9	675.1	719.4
65°	932.5	863.0	747.6	663.0	612.6	565.8	555.7	560.2	572.8	600.5	646.9
67.5°	834.3	771.3	660.5	582.4	537.6	495.7	487.2	489.2	502.3	526.5	566.8
70°	730.0	674.6	571.3	501.3	463.5	424.2	418.7	419.2	431.8	452.9	488.2
72.5°	620.7	570.8	481.1	421.2	389.9	361.7	356.7	350.6	362.2	380.4	410.6
75°	509.3	465.5	391.5	342.6	317.9	294.2	289.7	283.6	295.2	310.8	334.5
77.5°	397.0	361.7	304.3	266.5	247.4	229.7	225.7	219.2	230.7	242.3	261.0
80°	287.2	261.5	227.2	187.4	180.9	169.3	165.2	158.2	169.3	176.8	190.9
82.5°	185.4	168.3	148.6	120.9	119.9	111.3	109.3	101.3	111.3	115.9	126.5
85°	93.7	85.6	80.6	61.5	63.5	57.9	57.4	48.9	56.9	58.9	65.0
87.5°	26.7	28.2	25.2	15.1	19.1	18.1	18.1	13.1	18.1	18.1	20.7
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: P838185

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8	2159.8
2.5°	2161.8	2170.4	2172.4	2171.9	2177.4	2207.7	2197.6	2207.7
5°	2166.8	2186.0	2191.0	2198.1	2207.1	2241.4	2230.3	2242.4
7.5°	2169.9	2198.6	2209.7	2223.3	2237.9	2276.2	2267.1	2279.2
10°	2169.9	2207.1	2223.3	2245.9	2265.6	2309.9	2301.4	2315.5
12.5°	2160.8	2208.7	2231.3	2263.1	2288.3	2336.1	2332.6	2342.7
15°	2142.2	2201.1	2232.3	2273.1	2304.4	2357.8	2356.3	2368.4
17.5°	2117.0	2188.0	2225.8	2277.2	2316.5	2376.4	2380.0	2386.5
20°	2085.2	2163.3	2212.7	2275.7	2325.0	2391.0	2395.6	2404.6
22.5°	2043.4	2133.6	2193.0	2269.1	2326.0	2397.1	2405.1	2413.7
25°	1994.0	2097.8	2167.3	2256.5	2321.0	2396.6	2407.7	2415.2
27.5°	1937.6	2051.5	2134.6	2236.4	2306.9	2388.5	2402.1	2411.2
30°	1872.1	2002.1	2097.3	2210.2	2287.8	2373.4	2388.0	2397.1
32.5°	1804.6	1947.7	2053.0	2176.4	2260.0	2349.2	2361.8	2368.9
35°	1731.1	1881.7	1999.6	2133.1	2224.3	2310.4	2320.0	2327.6
37.5°	1651.0	1810.2	1938.6	2084.2	2173.9	2256.5	2265.1	2273.7
40°	1568.3	1735.1	1870.1	2024.3	2113.9	2190.5	2199.6	2205.6
42.5°	1485.2	1652.0	1797.1	1953.7	2042.9	2116.5	2122.0	2128.1
45°	1401.1	1565.8	1714.9	1875.6	1963.8	2032.8	2034.8	2039.9
47.5°	1315.4	1476.6	1624.8	1786.5	1873.6	1936.6	1938.6	1942.7
50°	1229.3	1387.5	1528.5	1690.2	1775.4	1841.9	1832.8	1836.9
52.5°	1144.6	1293.8	1437.8	1586.5	1670.6	1729.5	1732.1	1724.0
55°	1061.5	1202.1	1334.6	1477.6	1557.8	1603.6	1602.1	1605.1
57.5°	977.4	1109.4	1230.8	1361.8	1439.9	1483.2	1492.3	1481.7
60°	891.7	1015.7	1124.5	1242.9	1318.4	1354.7	1365.3	1355.2
62.5°	806.6	920.4	1019.2	1122.5	1192.5	1237.3	1236.3	1225.2
65°	721.4	824.7	912.9	1000.5	1061.5	1106.3	1104.3	1094.3
67.5°	642.8	728.0	807.1	878.1	931.0	961.8	972.3	960.2
70°	556.2	629.8	699.3	756.2	800.0	827.7	837.8	827.2
72.5°	469.5	532.0	580.9	635.8	669.6	692.7	703.3	693.2
75°	383.9	435.3	475.1	517.9	541.6	561.2	573.3	563.2
77.5°	300.8	340.6	372.3	403.5	430.7	435.3	445.9	439.3
80°	221.7	250.4	273.6	294.2	313.9	315.9	324.4	320.4
82.5°	147.6	166.8	172.8	194.5	207.1	205.0	213.6	210.6
85°	78.1	89.7	100.3	106.8	113.9	107.3	114.9	111.8
87.5°	26.2	27.7	24.2	34.3	37.8	32.2	36.8	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)