

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: P838076

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2LO-30-120-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: P838076
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-LD4-2LO-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

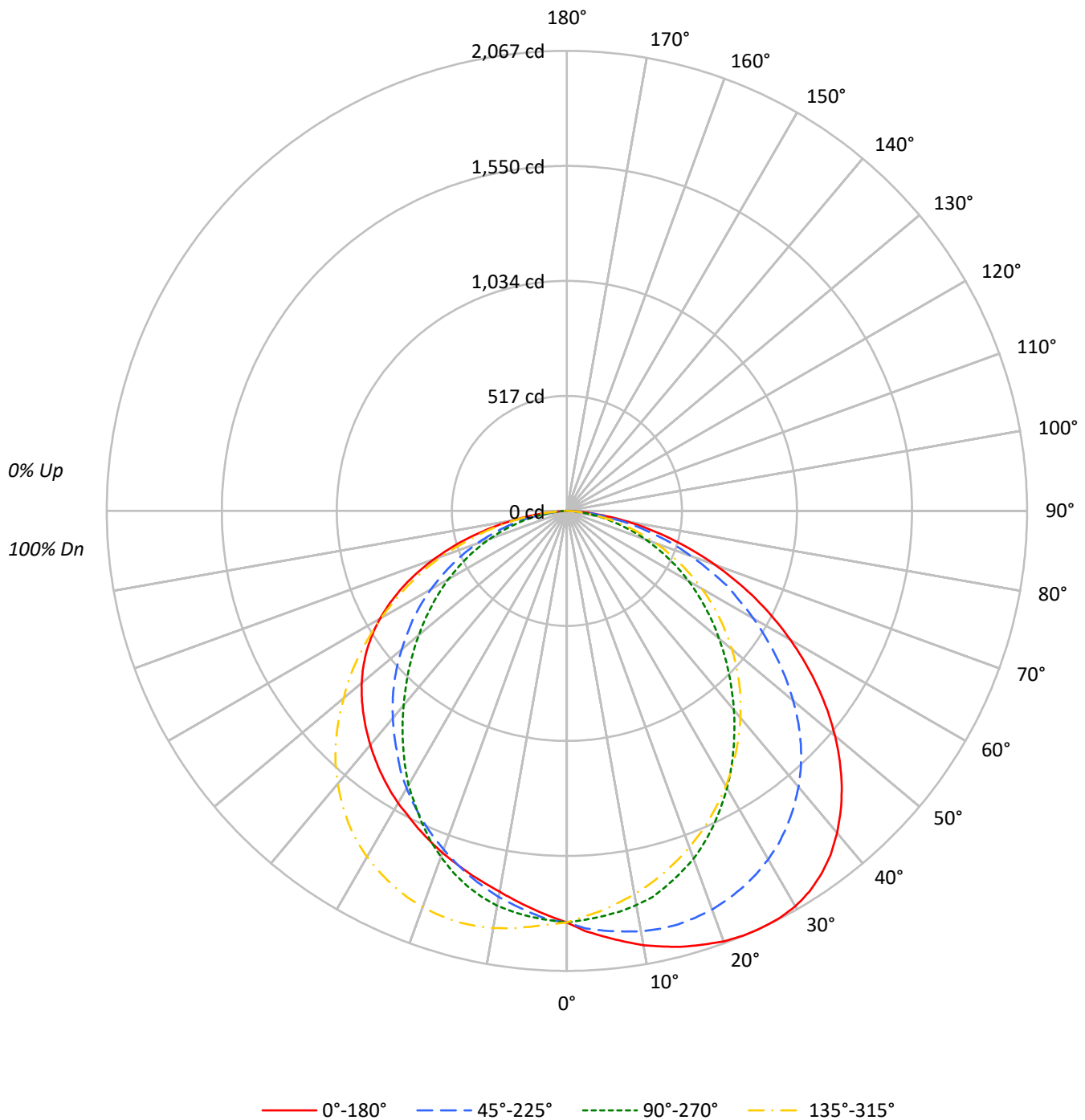
Lumens per Lamp: N/A
Luminaire Lumens: 5424.1 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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°	2488	2488	2488	2488
5°	2593	2470	2423	2474
10°	2708	2457	2374	2460
15°	2824	2426	2351	2426
20°	2947	2382	2340	2368
25°	3069	2315	2340	2291
30°	3188	2234	2356	2210
35°	3273	2143	2379	2109
40°	3316	2050	2412	2004
45°	3322	1957	2459	1908
50°	3291	1868	2519	1818
55°	3223	1784	2576	1735
60°	3122	1698	2610	1654
65°	2982	1598	2596	1561
70°	2786	1481	2504	1454
75°	2506	1320	2298	1314
80°	2125	1106	1932	1123
85°	1477	732	1226	752

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	3.2
10°-20°	508.3	9.4
20°-30°	779.0	14.4
30°-40°	947.2	17.5
40°-50°	984.7	18.2
50°-60°	889.4	16.4
60°-70°	676.2	12.5
70°-80°	377.0	7.0
80°-90°	86.8	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°	1462.8	27.0
0°-40°	2410.0	44.4
0°-60°	4284.1	79.0
0°-90°	5424.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1849	1849	1849	1849	1849	
5°	1920	1828	1794	1832	1920	185
15°	2027	1741	1688	1742	2027	575
25°	2067	1559	1576	1544	2067	955
35°	1992	1304	1449	1284	1992	1244
45°	1746	1028	1292	1003	1746	1344
55°	1374	761	1098	740	1374	1227
65°	937	502	816	490	937	926
75°	482	254	442	253	482	512
85°	96	47	79	49	96	121
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°	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8
2.5°	1889.7	1862.1	1862.6	1886.7	1868.2	1877.2	1851.4	1861.3	1858.3	1860.4	1839.3
5°	1919.5	1889.7	1889.3	1910.0	1889.3	1893.2	1860.4	1866.9	1857.4	1851.4	1828.5
7.5°	1951.0	1921.2	1918.2	1936.3	1909.2	1906.1	1869.9	1869.9	1852.7	1837.6	1816.0
10°	1982.0	1951.4	1947.5	1961.3	1927.7	1917.8	1873.8	1866.9	1844.0	1821.6	1798.3
12.5°	2005.3	1974.3	1971.3	1979.9	1941.9	1923.8	1873.8	1860.4	1826.8	1795.3	1777.2
15°	2027.3	1995.4	1987.2	1991.5	1948.0	1923.8	1867.8	1847.1	1803.9	1762.5	1741.4
17.5°	2042.8	2012.2	2004.0	2003.6	1951.0	1916.5	1854.8	1826.4	1774.6	1724.6	1703.4
20°	2058.4	2027.7	2017.4	2009.6	1950.1	1906.6	1835.8	1797.5	1737.1	1681.0	1663.3
22.5°	2066.1	2034.6	2023.4	2011.8	1944.5	1888.5	1812.6	1763.8	1694.8	1628.0	1613.3
25°	2067.4	2035.1	2023.0	2006.2	1933.3	1866.9	1782.4	1723.3	1646.1	1571.9	1559.4
27.5°	2064.0	2028.6	2016.5	1996.3	1916.5	1840.6	1746.6	1677.1	1594.3	1512.4	1499.0
30°	2051.9	2016.1	2004.5	1978.2	1892.8	1808.2	1707.3	1625.8	1537.0	1449.9	1438.2
32.5°	2027.7	1992.8	1983.3	1957.0	1866.9	1770.7	1661.6	1570.6	1473.6	1390.4	1373.1
35°	1992.4	1957.5	1951.4	1923.8	1830.7	1725.9	1611.6	1510.2	1406.3	1321.4	1304.5
37.5°	1946.2	1916.9	1907.9	1880.7	1788.0	1675.0	1554.2	1444.7	1337.7	1246.3	1236.0
40°	1888.0	1860.4	1853.5	1829.4	1738.4	1618.5	1492.1	1377.0	1267.0	1182.1	1167.4
42.5°	1821.6	1795.7	1791.9	1766.8	1677.1	1556.0	1424.9	1306.7	1193.3	1111.3	1096.7
45°	1746.1	1721.1	1720.3	1696.5	1610.3	1486.5	1354.1	1235.5	1121.3	1036.3	1028.5
47.5°	1662.9	1640.5	1640.5	1618.5	1535.7	1410.2	1281.3	1161.4	1048.8	973.8	960.0
50°	1572.3	1551.2	1544.7	1534.0	1453.3	1327.0	1204.5	1088.9	977.2	905.6	892.3
52.5°	1475.7	1457.6	1461.9	1442.1	1364.1	1240.3	1126.9	1007.4	905.2	840.1	826.7
55°	1374.0	1348.1	1352.0	1344.6	1270.9	1151.0	1039.7	940.1	834.5	773.2	760.7
57.5°	1268.3	1234.7	1248.5	1244.2	1171.7	1059.6	960.0	863.8	764.2	707.7	695.6
60°	1160.1	1127.7	1142.0	1138.1	1069.9	968.2	877.6	788.3	694.3	643.0	630.9
62.5°	1048.8	1019.0	1032.0	1029.0	966.4	874.6	795.7	713.7	624.0	577.9	566.7
65°	936.7	908.2	919.9	917.7	859.9	790.1	711.6	636.5	553.3	513.2	502.0
67.5°	822.0	795.7	806.4	806.4	753.4	686.6	627.0	558.5	483.9	449.4	439.0
70°	708.1	683.5	693.0	692.2	647.3	593.0	541.7	480.4	413.6	385.1	376.5
72.5°	593.4	571.8	580.5	579.6	542.1	507.2	456.3	403.2	345.0	322.1	314.4
75°	482.1	461.9	470.1	469.2	438.6	405.8	371.7	327.8	277.7	261.8	254.0
77.5°	376.1	355.4	362.3	362.3	339.8	316.1	288.9	254.9	219.5	202.3	196.7
80°	274.3	264.4	260.9	261.3	246.2	230.7	216.9	184.1	158.3	146.6	142.7
82.5°	180.3	172.1	168.6	169.5	160.9	151.4	142.7	119.9	102.6	95.7	93.6
85°	95.7	89.7	86.7	88.8	87.1	81.9	77.6	62.1	51.3	48.7	47.4
87.5°	30.2	26.3	24.2	31.9	27.2	24.2	23.3	18.5	14.2	14.2	13.8
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°	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8
2.5°	1846.2	1846.2	1829.4	1825.5	1823.8	1825.9	1809.1	1806.1	1830.2	1822.0	1803.5
5°	1831.5	1830.7	1806.9	1802.6	1802.6	1800.0	1781.1	1776.8	1800.9	1794.0	1773.7
7.5°	1813.4	1810.8	1782.8	1779.8	1775.5	1773.7	1752.6	1749.6	1770.3	1766.0	1747.0
10°	1791.4	1788.8	1755.6	1753.5	1748.7	1745.3	1725.4	1723.3	1744.4	1737.5	1722.4
12.5°	1762.5	1757.8	1723.7	1721.6	1717.7	1716.4	1697.0	1696.1	1719.4	1712.5	1696.5
15°	1724.6	1720.7	1682.7	1683.6	1684.0	1684.0	1668.5	1667.7	1690.5	1687.5	1670.2
17.5°	1682.7	1677.6	1641.3	1643.9	1647.0	1650.4	1638.3	1640.5	1664.6	1660.8	1645.2
20°	1635.3	1630.1	1594.8	1602.1	1608.6	1615.5	1607.7	1613.7	1636.2	1634.4	1622.8
22.5°	1582.3	1577.1	1544.3	1555.5	1566.3	1579.2	1575.8	1582.7	1606.4	1606.0	1595.6
25°	1517.6	1518.9	1490.0	1503.8	1521.9	1540.0	1541.3	1552.5	1578.8	1576.2	1566.7
27.5°	1457.2	1458.9	1428.3	1451.6	1475.7	1499.0	1504.6	1520.2	1546.9	1544.7	1536.6
30°	1393.8	1396.0	1366.2	1398.1	1427.4	1455.9	1468.0	1489.1	1516.3	1516.3	1507.7
32.5°	1327.8	1331.7	1300.7	1343.4	1377.4	1410.6	1431.8	1453.8	1484.8	1483.9	1476.6
35°	1260.1	1264.4	1236.0	1290.3	1324.4	1364.9	1391.2	1420.5	1448.1	1448.6	1443.0
37.5°	1191.1	1196.3	1170.4	1229.9	1268.7	1316.6	1350.3	1379.6	1410.2	1411.9	1406.7
40°	1122.5	1128.2	1105.7	1163.1	1212.3	1265.7	1304.5	1339.0	1372.7	1373.5	1370.1
42.5°	1054.0	1060.0	1043.2	1099.3	1154.9	1212.3	1258.0	1297.2	1331.7	1333.9	1330.0
45°	987.1	992.3	980.2	1041.5	1094.9	1157.5	1210.1	1254.5	1289.4	1292.5	1291.2
47.5°	920.7	925.5	914.7	970.7	1032.4	1098.8	1159.6	1208.8	1245.9	1249.3	1248.5
50°	855.6	859.5	847.8	906.5	967.7	1038.5	1101.8	1158.8	1200.2	1203.6	1203.2
52.5°	790.9	794.8	784.9	846.5	902.2	976.8	1045.8	1107.5	1148.4	1153.6	1154.5
55°	728.4	730.1	722.3	781.4	835.3	913.4	992.7	1052.7	1093.7	1098.0	1100.6
57.5°	665.9	666.3	659.8	716.3	768.1	847.8	931.1	994.0	1032.8	1037.2	1041.0
60°	603.8	603.3	596.0	650.8	700.4	779.3	866.0	928.5	966.0	969.9	975.1
62.5°	542.1	540.8	534.3	584.8	631.4	709.4	796.5	856.9	892.7	895.3	902.2
65°	480.8	479.6	473.5	520.1	562.4	637.0	722.3	779.7	812.0	815.5	814.2
67.5°	420.5	417.9	413.1	455.0	493.4	562.4	644.3	699.1	725.8	728.8	737.0
70°	360.1	357.1	346.3	390.7	424.4	486.0	562.4	611.1	633.5	636.5	635.2
72.5°	300.6	297.6	285.9	326.9	355.4	409.3	477.4	517.9	537.3	539.9	539.9
75°	242.8	241.1	233.7	264.8	288.5	332.5	390.3	423.9	439.0	442.0	441.2
77.5°	187.2	185.9	178.5	205.3	223.8	256.6	303.2	329.5	340.7	344.1	351.5
80°	134.1	133.7	122.0	148.4	156.5	184.1	218.2	238.5	244.5	249.3	254.4
82.5°	85.8	86.3	74.6	97.0	100.5	118.2	139.3	151.8	156.1	160.0	163.9
85°	41.8	43.6	37.1	51.3	51.8	60.8	69.9	74.6	76.3	79.4	82.8
87.5°	10.8	12.5	6.9	14.7	12.9	16.8	19.4	20.7	20.3	22.4	23.7
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°	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8
2.5°	1809.5	1823.3	1816.4	1838.9	1847.5	1833.7	1857.8	1858.3	1841.0	1861.3	1872.5
5°	1781.5	1795.7	1791.4	1814.7	1825.5	1813.4	1842.7	1848.3	1831.5	1854.4	1872.5
7.5°	1753.0	1769.9	1764.3	1788.0	1800.9	1791.4	1822.9	1832.0	1819.0	1844.0	1868.2
10°	1728.5	1742.7	1736.7	1761.7	1772.9	1765.1	1796.2	1813.0	1800.9	1831.5	1860.4
12.5°	1704.3	1716.0	1709.1	1729.8	1740.5	1730.6	1768.6	1784.1	1775.5	1807.4	1844.5
15°	1673.3	1686.2	1676.7	1695.3	1703.4	1694.8	1725.9	1752.6	1741.8	1776.8	1817.7
17.5°	1649.5	1656.9	1643.9	1658.6	1663.3	1651.7	1683.2	1709.5	1701.7	1739.7	1787.1
20°	1623.2	1629.3	1611.2	1619.4	1618.9	1604.3	1633.2	1659.0	1653.9	1695.7	1749.6
22.5°	1593.9	1596.9	1575.8	1577.5	1576.7	1552.5	1578.4	1604.7	1602.5	1644.8	1705.2
25°	1562.9	1563.3	1536.1	1535.3	1525.8	1497.3	1520.2	1549.9	1543.5	1589.2	1652.6
27.5°	1532.2	1527.9	1495.2	1487.4	1472.3	1438.2	1458.5	1485.2	1481.4	1526.2	1596.5
30°	1499.5	1493.9	1453.8	1439.5	1417.5	1378.3	1395.1	1420.1	1422.3	1461.5	1535.3
32.5°	1468.4	1454.2	1409.8	1389.1	1361.5	1315.8	1324.8	1350.3	1353.7	1393.4	1469.3
35°	1428.3	1418.8	1364.1	1328.7	1301.5	1251.5	1261.0	1278.7	1283.8	1322.7	1399.8
37.5°	1390.4	1375.3	1317.0	1273.9	1239.0	1186.4	1189.0	1207.1	1212.3	1251.5	1327.8
40°	1351.1	1329.6	1267.0	1216.6	1176.5	1121.3	1118.2	1137.2	1141.1	1179.5	1248.5
42.5°	1309.3	1283.4	1213.1	1157.9	1111.8	1055.7	1049.7	1066.1	1070.4	1107.9	1175.6
45°	1267.0	1236.0	1157.9	1097.5	1047.1	989.7	983.7	996.2	1002.7	1038.0	1103.1
47.5°	1222.2	1185.9	1101.0	1033.7	981.5	924.2	916.8	929.3	934.5	969.5	1031.1
50°	1175.2	1131.2	1042.3	968.2	916.4	859.9	849.1	863.8	868.5	901.3	961.7
52.5°	1123.4	1074.7	979.8	902.2	850.4	796.5	783.6	797.8	803.4	835.3	891.0
55°	1068.6	1016.0	916.8	841.4	785.3	732.7	721.9	727.5	739.6	769.8	821.5
57.5°	1007.0	954.8	850.4	773.7	719.8	669.3	660.2	665.4	676.6	706.0	752.5
60°	941.4	886.2	782.7	706.0	653.8	605.9	597.7	602.5	614.5	641.3	684.4
62.5°	876.7	814.6	712.9	636.5	589.1	544.7	542.5	540.8	552.0	577.9	615.8
65°	798.2	738.7	640.0	567.5	524.4	484.3	475.7	479.6	490.3	514.1	553.7
67.5°	714.2	660.2	565.4	498.5	460.1	424.4	417.0	418.7	430.0	450.7	485.2
70°	624.9	577.4	489.0	429.1	396.8	363.1	358.4	358.8	369.6	387.7	417.9
72.5°	531.3	488.6	411.8	360.5	333.8	309.6	305.3	300.2	310.1	325.6	351.5
75°	436.0	398.5	335.1	293.3	272.1	251.9	248.0	242.8	252.7	266.1	286.4
77.5°	339.8	309.6	260.5	228.1	211.7	196.7	193.2	187.6	197.5	207.4	223.4
80°	245.8	223.8	194.5	160.4	154.8	144.9	141.5	135.4	144.9	151.4	163.4
82.5°	158.7	144.0	127.2	103.5	102.6	95.3	93.6	86.7	95.3	99.2	108.2
85°	80.2	73.3	69.0	52.6	54.3	49.6	49.2	41.8	48.7	50.5	55.6
87.5°	22.9	24.2	21.6	12.9	16.4	15.5	15.5	11.2	15.5	15.5	17.7
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: P838076

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8	1848.8
2.5°	1850.5	1857.8	1859.6	1859.1	1863.9	1889.7	1881.1	1889.7
5°	1854.8	1871.2	1875.5	1881.6	1889.3	1918.6	1909.2	1919.5
7.5°	1857.4	1882.0	1891.5	1903.1	1915.6	1948.4	1940.6	1951.0
10°	1857.4	1889.3	1903.1	1922.5	1939.3	1977.3	1970.0	1982.0
12.5°	1849.6	1890.6	1910.0	1937.2	1958.7	1999.7	1996.7	2005.3
15°	1833.7	1884.1	1910.9	1945.8	1972.5	2018.3	2017.0	2027.3
17.5°	1812.1	1872.9	1905.3	1949.3	1982.9	2034.2	2037.2	2042.8
20°	1785.0	1851.8	1894.1	1948.0	1990.2	2046.7	2050.6	2058.4
22.5°	1749.2	1826.4	1877.2	1942.4	1991.1	2051.9	2058.8	2066.1
25°	1706.9	1795.7	1855.2	1931.6	1986.8	2051.5	2061.0	2067.4
27.5°	1658.6	1756.1	1827.2	1914.3	1974.7	2044.6	2056.2	2064.0
30°	1602.5	1713.8	1795.3	1891.9	1958.3	2031.6	2044.1	2051.9
32.5°	1544.7	1667.2	1757.4	1863.0	1934.6	2010.9	2021.7	2027.7
35°	1481.8	1610.7	1711.6	1825.9	1904.0	1977.7	1985.9	1992.4
37.5°	1413.2	1549.5	1659.5	1784.1	1860.9	1931.6	1938.9	1946.2
40°	1342.5	1485.2	1600.8	1732.8	1809.5	1875.1	1882.8	1888.0
42.5°	1271.3	1414.1	1538.3	1672.4	1748.7	1811.7	1816.4	1821.6
45°	1199.3	1340.3	1468.0	1605.6	1681.0	1740.1	1741.8	1746.1
47.5°	1126.0	1264.0	1390.8	1529.2	1603.8	1657.7	1659.5	1662.9
50°	1052.3	1187.7	1308.4	1446.9	1519.7	1576.7	1568.9	1572.3
52.5°	979.8	1107.5	1230.8	1358.0	1430.0	1480.5	1482.6	1475.7
55°	908.6	1029.0	1142.4	1264.9	1333.4	1372.7	1371.4	1374.0
57.5°	836.6	949.6	1053.5	1165.7	1232.5	1269.6	1277.4	1268.3
60°	763.3	869.4	962.6	1063.9	1128.6	1159.6	1168.7	1160.1
62.5°	690.4	787.9	872.4	960.8	1020.8	1059.2	1058.3	1048.8
65°	617.6	706.0	781.4	856.5	908.6	947.0	945.3	936.7
67.5°	550.3	623.2	690.9	751.7	797.0	823.3	832.3	822.0
70°	476.1	539.1	598.6	647.3	684.8	708.5	717.2	708.1
72.5°	401.9	455.4	497.2	544.2	573.1	593.0	602.0	593.4
75°	328.6	372.6	406.7	443.3	463.6	480.4	490.8	482.1
77.5°	257.5	291.5	318.7	345.4	368.7	372.6	381.7	376.1
80°	189.8	214.3	234.2	251.9	268.7	270.4	277.7	274.3
82.5°	126.4	142.7	147.9	166.5	177.2	175.5	182.9	180.3
85°	66.8	76.8	85.8	91.4	97.5	91.9	98.3	95.7
87.5°	22.4	23.7	20.7	29.3	32.3	27.6	31.5	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)