

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: P837752

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2LO-40-120-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: P837752
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-LD4-2LO-40-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

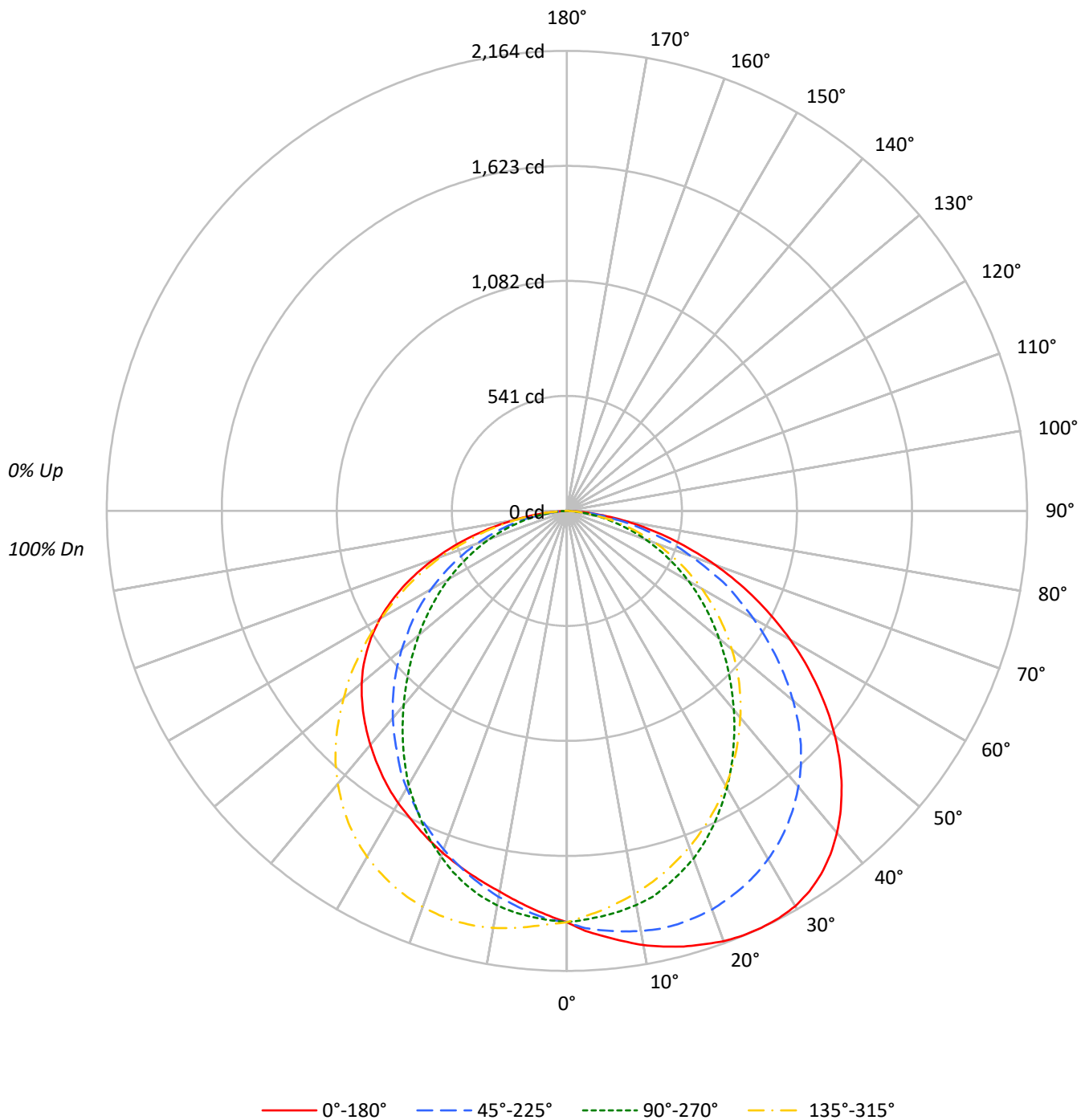
Lumens per Lamp: N/A
Luminaire Lumens: 5676.5 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5207	5207	5207	5207
5°	5426	5169	5072	5178
10°	5668	5143	4969	5150
15°	5911	5077	4920	5078
20°	6169	4985	4898	4956
25°	6424	4846	4898	4796
30°	6673	4677	4931	4625
35°	6850	4485	4980	4414
40°	6941	4292	5050	4195
45°	6954	4096	5147	3993
50°	6889	3909	5273	3805
55°	6746	3735	5391	3631
60°	6534	3554	5463	3461
65°	6242	3345	5435	3268
70°	5831	3100	5242	3043
75°	5246	2764	4810	2750
80°	4448	2315	4043	2349
85°	3094	1531	2563	1575

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	3.2
10°-20°	531.9	9.4
20°-30°	815.2	14.4
30°-40°	991.3	17.5
40°-50°	1030.5	18.2
50°-60°	930.8	16.4
60°-70°	707.7	12.5
70°-80°	394.5	7.0
80°-90°	90.8	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°	1530.9	27.0
0°-40°	2522.2	44.4
0°-60°	4483.5	79.0
0°-90°	5676.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5676.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1935	1935	1935	1935	1935	
5°	2009	1914	1878	1917	2009	194
15°	2122	1822	1766	1823	2122	602
25°	2164	1632	1650	1615	2164	999
35°	2085	1365	1516	1344	2085	1302
45°	1827	1076	1353	1049	1827	1407
55°	1438	796	1149	774	1438	1284
65°	980	525	854	513	980	969
75°	505	266	463	264	505	536
85°	100	50	83	51	100	126
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°	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8
2.5°	1977.7	1948.8	1949.3	1974.5	1955.1	1964.6	1937.5	1947.9	1944.8	1947.0	1924.9
5°	2008.8	1977.7	1977.3	1998.9	1977.3	1981.3	1947.0	1953.8	1943.9	1937.5	1913.6
7.5°	2041.8	2010.7	2007.5	2026.4	1998.0	1994.9	1956.9	1956.9	1938.9	1923.1	1900.5
10°	2074.3	2042.2	2038.2	2052.6	2017.4	2007.0	1961.0	1953.8	1929.9	1906.4	1882.0
12.5°	2098.7	2066.2	2063.0	2072.0	2032.3	2013.4	1961.0	1947.0	1911.8	1878.9	1859.9
15°	2121.7	2088.3	2079.7	2084.2	2038.6	2013.4	1954.7	1933.0	1887.9	1844.6	1822.4
17.5°	2137.9	2105.9	2097.3	2096.9	2041.8	2005.7	1941.1	1911.4	1857.2	1804.8	1782.7
20°	2154.2	2122.1	2111.3	2103.2	2040.9	1995.3	1921.3	1881.1	1817.9	1759.3	1740.8
22.5°	2162.3	2129.3	2117.6	2105.4	2035.0	1976.3	1896.9	1845.9	1773.7	1703.7	1688.4
25°	2163.6	2129.8	2117.2	2099.6	2023.3	1953.8	1865.3	1803.5	1722.7	1645.1	1632.0
27.5°	2160.0	2123.0	2110.4	2089.2	2005.7	1926.3	1827.9	1755.2	1668.5	1582.8	1568.8
30°	2147.4	2109.9	2097.8	2070.2	1980.9	1892.4	1786.8	1701.5	1608.5	1517.4	1505.2
32.5°	2122.1	2085.6	2075.6	2048.1	1953.8	1853.1	1739.0	1643.7	1542.2	1455.1	1437.0
35°	2085.1	2048.6	2042.2	2013.4	1915.9	1806.2	1686.6	1580.5	1471.8	1382.9	1365.3
37.5°	2036.8	2006.1	1996.7	1968.2	1871.2	1752.9	1626.6	1511.9	1400.0	1304.3	1293.5
40°	1975.9	1947.0	1939.8	1914.5	1819.3	1693.8	1561.6	1441.1	1326.0	1237.1	1221.7
42.5°	1906.4	1879.3	1875.3	1849.1	1755.2	1628.4	1491.2	1367.5	1248.8	1163.1	1147.7
45°	1827.4	1801.2	1800.3	1775.5	1685.2	1555.7	1417.2	1293.0	1173.4	1084.5	1076.4
47.5°	1740.3	1716.8	1716.8	1693.8	1607.2	1475.8	1340.9	1215.4	1097.6	1019.1	1004.6
50°	1645.5	1623.4	1616.6	1605.4	1521.0	1388.7	1260.5	1139.6	1022.7	947.8	933.8
52.5°	1544.4	1525.5	1530.0	1509.2	1427.5	1298.0	1179.3	1054.3	947.3	879.2	865.2
55°	1437.9	1410.8	1414.9	1407.2	1330.1	1204.6	1088.1	983.9	873.3	809.2	796.1
57.5°	1327.3	1292.1	1306.6	1302.1	1226.2	1108.9	1004.6	904.0	799.7	740.6	728.0
60°	1214.1	1180.2	1195.1	1191.0	1119.7	1013.2	918.4	825.0	726.6	672.9	660.3
62.5°	1097.6	1066.5	1080.0	1076.9	1011.4	915.3	832.7	746.9	653.1	604.8	593.0
65°	980.3	950.5	962.7	960.4	899.9	826.8	744.7	666.2	579.0	537.1	525.3
67.5°	860.2	832.7	844.0	844.0	788.5	718.5	656.2	584.5	506.4	470.3	459.4
70°	741.1	715.3	725.3	724.4	677.4	620.6	566.9	502.8	432.8	403.0	394.0
72.5°	621.0	598.5	607.5	606.6	567.3	530.8	477.5	422.0	361.1	337.1	329.0
75°	504.6	483.4	491.9	491.0	459.0	424.7	389.0	343.0	290.7	274.0	265.8
77.5°	393.6	371.9	379.1	379.1	355.6	330.8	302.4	266.7	229.7	211.7	205.8
80°	287.0	276.7	273.1	273.5	257.7	241.5	227.0	192.7	165.6	153.5	149.4
82.5°	188.7	180.1	176.5	177.4	168.3	158.4	149.4	125.5	107.4	100.2	97.9
85°	100.2	93.9	90.7	93.0	91.2	85.8	81.2	65.0	53.7	51.0	49.6
87.5°	31.6	27.5	25.3	33.4	28.4	25.3	24.4	19.4	14.9	14.9	14.4
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°	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8
2.5°	1932.1	1932.1	1914.5	1910.5	1908.7	1910.9	1893.3	1890.1	1915.4	1906.8	1887.4
5°	1916.8	1915.9	1891.0	1886.5	1886.5	1883.8	1864.0	1859.5	1884.7	1877.5	1856.3
7.5°	1897.8	1895.1	1865.8	1862.6	1858.1	1856.3	1834.2	1831.0	1852.7	1848.2	1828.3
10°	1874.8	1872.1	1837.3	1835.1	1830.1	1826.5	1805.7	1803.5	1825.6	1818.4	1802.6
12.5°	1844.6	1839.6	1803.9	1801.7	1797.6	1796.3	1776.0	1775.1	1799.4	1792.2	1775.5
15°	1804.8	1800.8	1761.1	1762.0	1762.4	1762.4	1746.2	1745.3	1769.2	1766.0	1748.0
17.5°	1761.1	1755.7	1717.7	1720.4	1723.6	1727.2	1714.6	1716.8	1742.1	1738.1	1721.8
20°	1711.4	1706.0	1669.0	1676.7	1683.4	1690.7	1682.5	1688.9	1712.3	1710.5	1698.3
22.5°	1655.9	1650.5	1616.2	1627.9	1639.2	1652.8	1649.1	1656.4	1681.2	1680.7	1669.9
25°	1588.2	1589.6	1559.3	1573.8	1592.7	1611.7	1613.0	1624.8	1652.3	1649.6	1639.7
27.5°	1525.0	1526.8	1494.8	1519.2	1544.4	1568.8	1574.7	1590.9	1618.9	1616.6	1608.1
30°	1458.7	1460.9	1429.8	1463.2	1493.9	1523.7	1536.3	1558.4	1586.9	1586.9	1577.8
32.5°	1389.6	1393.7	1361.2	1405.9	1441.5	1476.3	1498.4	1521.4	1553.9	1553.0	1545.3
35°	1318.8	1323.3	1293.5	1350.4	1386.0	1428.4	1456.0	1486.7	1515.5	1516.0	1510.1
37.5°	1246.6	1252.0	1224.9	1287.2	1327.8	1377.9	1413.1	1443.8	1475.8	1477.6	1472.2
40°	1174.8	1180.7	1157.2	1217.2	1268.7	1324.6	1365.3	1401.4	1436.6	1437.5	1433.9
42.5°	1103.0	1109.4	1091.8	1150.4	1208.6	1268.7	1316.5	1357.6	1393.7	1395.9	1391.9
45°	1033.1	1038.5	1025.9	1089.9	1145.9	1211.4	1266.4	1312.9	1349.5	1352.6	1351.3
47.5°	963.6	968.5	957.3	1015.9	1080.5	1150.0	1213.6	1265.1	1303.9	1307.5	1306.6
50°	895.4	899.5	887.3	948.7	1012.8	1086.8	1153.1	1212.7	1256.0	1259.6	1259.2
52.5°	827.7	831.8	821.4	885.9	944.2	1022.2	1094.5	1159.0	1201.9	1207.3	1208.2
55°	762.3	764.1	756.0	817.8	874.2	955.9	1038.9	1101.7	1144.6	1149.1	1151.8
57.5°	696.8	697.3	690.5	749.6	803.8	887.3	974.4	1040.3	1080.9	1085.4	1089.5
60°	631.9	631.4	623.7	681.0	733.0	815.5	906.3	971.7	1011.0	1015.0	1020.4
62.5°	567.3	566.0	559.2	612.0	660.7	742.4	833.6	896.8	934.2	936.9	944.2
65°	503.2	501.9	495.6	544.3	588.5	666.6	756.0	816.0	849.8	853.5	852.1
67.5°	440.0	437.3	432.4	476.1	516.3	588.5	674.3	731.6	759.6	762.7	771.3
70°	376.9	373.7	362.4	408.9	444.1	508.6	588.5	639.5	663.0	666.2	664.8
72.5°	314.6	311.4	299.2	342.1	371.9	428.3	499.6	542.0	562.4	565.1	565.1
75°	254.1	252.3	244.6	277.1	301.9	348.0	408.4	443.7	459.4	462.6	461.7
77.5°	195.9	194.5	186.8	214.8	234.2	268.5	317.3	344.8	356.5	360.2	367.8
80°	140.4	139.9	127.7	155.3	163.8	192.7	228.4	249.6	255.9	260.9	266.3
82.5°	89.8	90.3	78.1	101.5	105.2	123.7	145.8	158.9	163.4	167.4	171.5
85°	43.8	45.6	38.8	53.7	54.2	63.6	73.1	78.1	79.9	83.0	86.7
87.5°	11.3	13.1	7.2	15.3	13.5	17.6	20.3	21.7	21.2	23.5	24.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8
2.5°	1893.8	1908.2	1901.0	1924.4	1933.5	1919.0	1944.3	1944.8	1926.7	1947.9	1959.7
5°	1864.4	1879.3	1874.8	1899.2	1910.5	1897.8	1928.5	1934.4	1916.8	1940.7	1959.7
7.5°	1834.6	1852.2	1846.4	1871.2	1884.7	1874.8	1907.7	1917.2	1903.7	1929.9	1955.1
10°	1808.9	1823.8	1817.5	1843.7	1855.4	1847.3	1879.8	1897.4	1884.7	1916.8	1947.0
12.5°	1783.6	1795.8	1788.6	1810.3	1821.5	1811.2	1850.9	1867.1	1858.1	1891.5	1930.3
15°	1751.1	1764.7	1754.7	1774.2	1782.7	1773.7	1806.2	1834.2	1822.9	1859.5	1902.3
17.5°	1726.3	1734.0	1720.4	1735.8	1740.8	1728.6	1761.5	1789.0	1780.9	1820.6	1870.3
20°	1698.8	1705.1	1686.1	1694.7	1694.3	1678.9	1709.2	1736.2	1730.8	1774.6	1831.0
22.5°	1668.1	1671.3	1649.1	1650.9	1650.0	1624.8	1651.8	1679.4	1677.1	1721.4	1784.5
25°	1635.6	1636.1	1607.6	1606.7	1596.8	1567.0	1590.9	1622.1	1615.3	1663.1	1729.5
27.5°	1603.6	1599.0	1564.7	1556.6	1540.8	1505.2	1526.4	1554.4	1550.3	1597.2	1670.8
30°	1569.3	1563.4	1521.4	1506.5	1483.5	1442.4	1460.0	1486.2	1488.5	1529.5	1606.7
32.5°	1536.8	1521.9	1475.4	1453.7	1424.8	1377.0	1386.5	1413.1	1416.7	1458.2	1537.7
35°	1494.8	1484.9	1427.5	1390.5	1362.1	1309.7	1319.7	1338.2	1343.6	1384.2	1465.0
37.5°	1455.1	1439.3	1378.3	1333.2	1296.7	1241.6	1244.3	1263.3	1268.7	1309.7	1389.6
40°	1414.0	1391.4	1326.0	1273.2	1231.2	1173.4	1170.3	1190.1	1194.2	1234.4	1306.6
42.5°	1370.2	1343.1	1269.6	1211.8	1163.5	1104.8	1098.5	1115.7	1120.2	1159.5	1230.3
45°	1326.0	1293.5	1211.8	1148.6	1095.8	1035.8	1029.5	1042.6	1049.3	1086.3	1154.5
47.5°	1279.1	1241.1	1152.2	1081.8	1027.2	967.2	959.5	972.6	978.0	1014.6	1079.1
50°	1229.9	1183.8	1090.9	1013.2	959.1	899.9	888.7	904.0	909.0	943.3	1006.5
52.5°	1175.7	1124.7	1025.4	944.2	890.0	833.6	820.1	835.0	840.8	874.2	932.4
55°	1118.4	1063.3	959.5	880.5	821.9	766.8	755.5	761.4	774.0	805.6	859.8
57.5°	1053.8	999.2	890.0	809.7	753.3	700.5	691.0	696.4	708.1	738.8	787.6
60°	985.2	927.5	819.2	738.8	684.2	634.1	625.5	630.5	643.1	671.1	716.3
62.5°	917.5	852.6	746.0	666.2	616.5	570.0	567.8	566.0	577.7	604.8	644.5
65°	835.4	773.1	669.8	593.9	548.8	506.8	497.8	501.9	513.2	538.0	579.5
67.5°	747.4	691.0	591.7	521.7	481.6	444.1	436.4	438.2	450.0	471.6	507.7
70°	654.0	604.3	511.8	449.1	415.2	380.0	375.1	375.5	386.8	405.7	437.3
72.5°	556.0	511.4	431.0	377.3	349.3	324.1	319.5	314.1	324.5	340.7	367.8
75°	456.3	417.0	350.7	306.9	284.8	263.6	259.5	254.1	264.5	278.5	299.7
77.5°	355.6	324.1	272.6	238.8	221.6	205.8	202.2	196.3	206.7	217.1	233.8
80°	257.3	234.2	203.5	167.9	162.0	151.6	148.0	141.7	151.6	158.4	171.1
82.5°	166.1	150.7	133.1	108.3	107.4	99.7	97.9	90.7	99.7	103.8	113.3
85°	83.9	76.7	72.2	55.1	56.9	51.9	51.5	43.8	51.0	52.8	58.2
87.5°	23.9	25.3	22.6	13.5	17.2	16.2	16.2	11.7	16.2	16.2	18.5
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: P837752

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2LO-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8	1934.8
2.5°	1936.6	1944.3	1946.1	1945.7	1950.6	1977.7	1968.7	1977.7
5°	1941.1	1958.3	1962.8	1969.1	1977.3	2007.9	1998.0	2008.8
7.5°	1943.9	1969.6	1979.5	1991.7	2004.8	2039.1	2031.0	2041.8
10°	1943.9	1977.3	1991.7	2012.0	2029.6	2069.3	2061.6	2074.3
12.5°	1935.7	1978.6	1998.9	2027.3	2049.9	2092.8	2089.6	2098.7
15°	1919.0	1971.8	1999.8	2036.4	2064.4	2112.2	2110.8	2121.7
17.5°	1896.5	1960.1	1994.0	2040.0	2075.2	2128.9	2132.1	2137.9
20°	1868.0	1938.0	1982.2	2038.6	2082.9	2142.0	2146.0	2154.2
22.5°	1830.6	1911.4	1964.6	2032.8	2083.8	2147.4	2154.6	2162.3
25°	1786.3	1879.3	1941.6	2021.5	2079.3	2147.0	2156.9	2163.6
27.5°	1735.8	1837.8	1912.3	2003.4	2066.6	2139.7	2151.9	2160.0
30°	1677.1	1793.6	1878.9	1980.0	2049.5	2126.2	2139.3	2147.4
32.5°	1616.6	1744.8	1839.1	1949.7	2024.6	2104.5	2115.8	2122.1
35°	1550.8	1685.7	1791.3	1910.9	1992.6	2069.8	2078.3	2085.1
37.5°	1479.0	1621.6	1736.7	1867.1	1947.5	2021.5	2029.2	2036.8
40°	1405.0	1554.4	1675.3	1813.4	1893.8	1962.4	1970.5	1975.9
42.5°	1330.5	1479.9	1609.9	1750.2	1830.1	1896.0	1901.0	1906.4
45°	1255.1	1402.7	1536.3	1680.3	1759.3	1821.1	1822.9	1827.4
47.5°	1178.4	1322.8	1455.5	1600.4	1678.5	1734.9	1736.7	1740.3
50°	1101.2	1242.9	1369.3	1514.2	1590.5	1650.0	1641.9	1645.5
52.5°	1025.4	1159.0	1288.1	1421.2	1496.6	1549.4	1551.7	1544.4
55°	950.9	1076.9	1195.6	1323.7	1395.5	1436.6	1435.2	1437.9
57.5°	875.6	993.8	1102.6	1219.9	1289.9	1328.7	1336.8	1327.3
60°	798.8	909.9	1007.4	1113.4	1181.1	1213.6	1223.1	1214.1
62.5°	722.6	824.6	913.0	1005.6	1068.3	1108.5	1107.6	1097.6
65°	646.3	738.8	817.8	896.3	950.9	991.1	989.3	980.3
67.5°	575.9	652.2	723.0	786.7	834.0	861.6	871.1	860.2
70°	498.3	564.2	626.4	677.4	716.7	741.5	750.6	741.1
72.5°	420.6	476.6	520.4	569.6	599.8	620.6	630.0	621.0
75°	343.9	389.9	425.6	464.0	485.2	502.8	513.6	504.6
77.5°	269.4	305.1	333.5	361.5	385.9	389.9	399.4	393.6
80°	198.6	224.3	245.1	263.6	281.2	283.0	290.7	287.0
82.5°	132.2	149.4	154.8	174.2	185.5	183.7	191.4	188.7
85°	70.0	80.3	89.8	95.7	102.0	96.1	102.9	100.2
87.5°	23.5	24.8	21.7	30.7	33.8	28.9	32.9	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)