

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: P837869

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-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: P837869
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-LD4-5LO-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

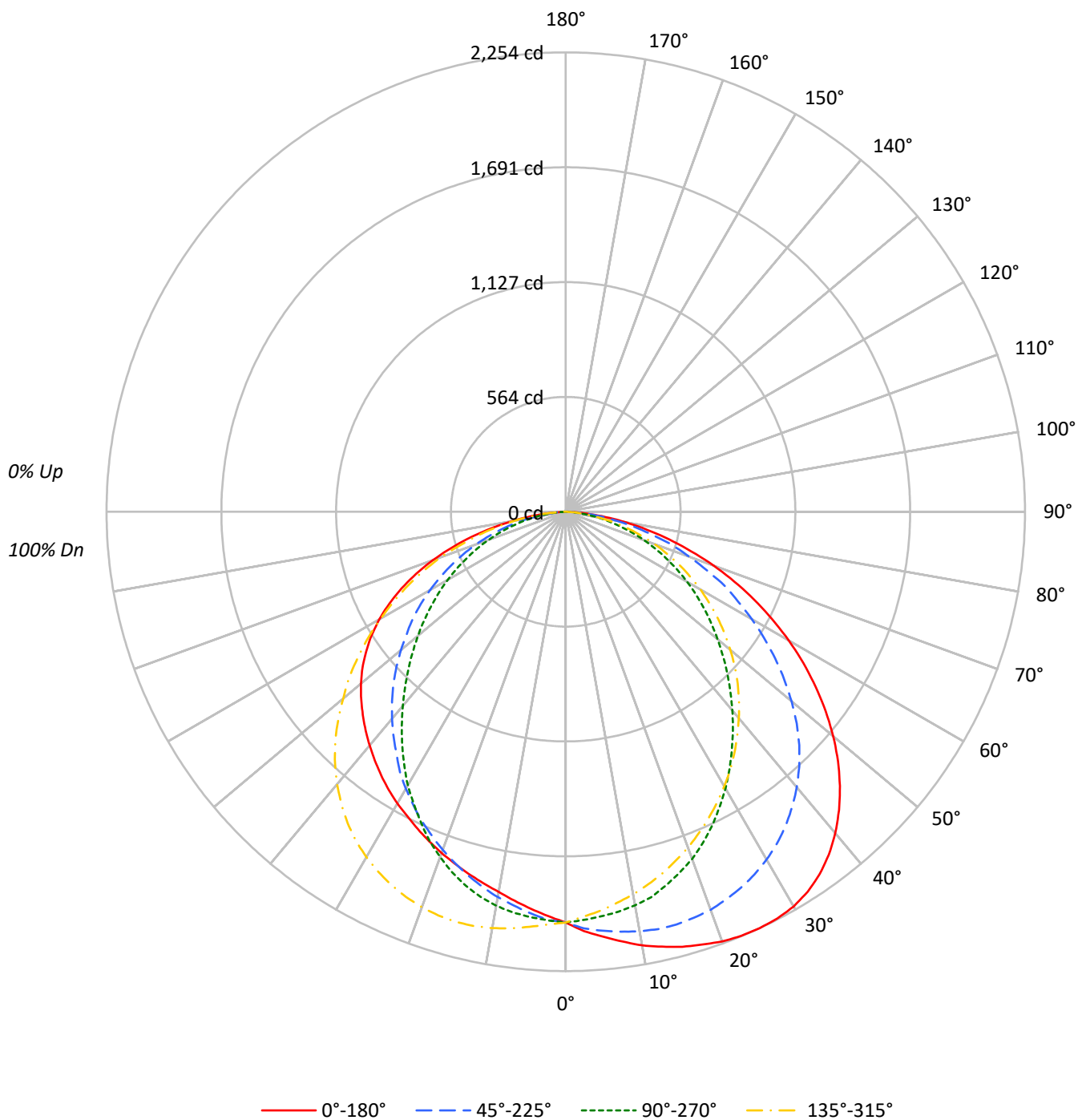
Lumens per Lamp: N/A
Luminaire Lumens: 5912.3 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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°	5423	5423	5423	5423
5°	5652	5384	5282	5393
10°	5903	5356	5175	5364
15°	6156	5288	5124	5289
20°	6425	5192	5102	5162
25°	6691	5047	5101	4995
30°	6950	4871	5136	4817
35°	7134	4671	5187	4597
40°	7229	4470	5259	4369
45°	7243	4266	5361	4159
50°	7175	4072	5493	3963
55°	7026	3890	5615	3782
60°	6805	3701	5690	3605
65°	6501	3484	5660	3403
70°	6073	3229	5459	3169
75°	5464	2879	5009	2864
80°	4634	2411	4210	2447
85°	3223	1596	2671	1639

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	3.2
10°-20°	554.0	9.4
20°-30°	849.1	14.4
30°-40°	1032.4	17.5
40°-50°	1073.3	18.2
50°-60°	969.5	16.4
60°-70°	737.1	12.5
70°-80°	410.9	7.0
80°-90°	94.6	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°	1594.5	27.0
0°-40°	2626.9	44.4
0°-60°	4669.7	79.0
0°-90°	5912.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5912.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2015	2015	2015	2015	2015	
5°	2092	1993	1956	1996	2092	202
15°	2210	1898	1839	1899	2210	627
25°	2254	1700	1718	1682	2254	1041
35°	2172	1422	1579	1399	2172	1356
45°	1903	1121	1409	1093	1903	1465
55°	1498	829	1197	806	1498	1337
65°	1021	547	889	534	1021	1009
75°	526	277	482	276	526	558
85°	104	52	86	53	104	131
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°	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2
2.5°	2059.8	2029.8	2030.2	2056.5	2036.3	2046.2	2018.0	2028.8	2025.5	2027.9	2004.8
5°	2092.3	2059.8	2059.4	2081.9	2059.4	2063.6	2027.9	2034.9	2024.6	2018.0	1993.1
7.5°	2126.6	2094.2	2090.9	2110.6	2081.0	2077.7	2038.2	2038.2	2019.4	2003.0	1979.5
10°	2160.4	2127.1	2122.8	2137.9	2101.2	2090.4	2042.4	2034.9	2010.0	1985.6	1960.2
12.5°	2185.8	2152.0	2148.7	2158.1	2116.7	2097.0	2042.4	2027.9	1991.2	1956.9	1937.2
15°	2209.8	2175.0	2166.1	2170.8	2123.3	2097.0	2035.9	2013.3	1966.3	1921.2	1898.1
17.5°	2226.7	2193.3	2184.4	2183.9	2126.6	2089.0	2021.8	1990.7	1934.3	1879.8	1856.8
20°	2243.6	2210.3	2199.0	2190.5	2125.6	2078.2	2001.1	1959.2	1893.4	1832.3	1813.1
22.5°	2252.1	2217.8	2205.6	2192.9	2119.5	2058.4	1975.7	1922.6	1847.4	1774.5	1758.5
25°	2253.5	2218.3	2205.1	2186.8	2107.3	2034.9	1942.8	1878.4	1794.3	1713.4	1699.8
27.5°	2249.7	2211.2	2198.0	2175.9	2089.0	2006.3	1903.8	1828.1	1737.8	1648.5	1634.0
30°	2236.6	2197.6	2184.9	2156.2	2063.1	1971.0	1861.0	1772.2	1675.3	1580.4	1567.7
32.5°	2210.3	2172.2	2161.8	2133.2	2034.9	1930.1	1811.2	1712.0	1606.2	1515.5	1496.7
35°	2171.7	2133.6	2127.1	2097.0	1995.4	1881.2	1756.6	1646.2	1532.9	1440.3	1422.0
37.5°	2121.4	2089.5	2079.6	2050.0	1948.9	1825.7	1694.1	1574.7	1458.2	1358.5	1347.2
40°	2058.0	2027.9	2020.4	1994.0	1894.8	1764.2	1626.4	1500.9	1381.1	1288.5	1272.5
42.5°	1985.6	1957.4	1953.1	1925.9	1828.1	1696.0	1553.1	1424.3	1300.7	1211.4	1195.4
45°	1903.3	1876.0	1875.1	1849.2	1755.2	1620.3	1476.0	1346.7	1222.2	1129.6	1121.1
47.5°	1812.6	1788.1	1788.1	1764.2	1673.9	1537.1	1396.6	1265.9	1143.2	1061.4	1046.4
50°	1713.9	1690.8	1683.8	1672.0	1584.1	1446.4	1312.9	1186.9	1065.2	987.1	972.6
52.5°	1608.6	1588.8	1593.5	1571.9	1486.8	1351.9	1228.3	1098.1	986.7	915.7	901.1
55°	1497.6	1469.4	1473.7	1465.7	1385.3	1254.6	1133.3	1024.7	909.6	842.8	829.2
57.5°	1382.5	1345.8	1360.8	1356.1	1277.2	1155.0	1046.4	941.5	833.0	771.4	758.2
60°	1264.5	1229.2	1244.7	1240.5	1166.2	1055.3	956.6	859.3	756.8	700.9	687.7
62.5°	1143.2	1110.8	1124.9	1121.6	1053.4	953.3	867.3	778.0	680.2	629.9	617.7
65°	1021.0	990.0	1002.7	1000.3	937.3	861.2	775.6	693.8	603.1	559.4	547.2
67.5°	896.0	867.3	879.0	879.0	821.2	748.3	683.5	608.7	527.4	489.8	478.5
70°	771.9	745.1	755.4	754.5	705.6	646.3	590.4	523.7	450.8	419.8	410.4
72.5°	646.8	623.3	632.7	631.8	590.9	552.8	497.3	439.5	376.1	351.1	342.7
75°	525.5	503.4	512.4	511.4	478.1	442.3	405.2	357.3	302.7	285.3	276.9
77.5°	409.9	387.3	394.9	394.9	370.4	344.6	314.9	277.8	239.3	220.5	214.4
80°	299.0	288.2	284.4	284.9	268.4	251.5	236.4	200.7	172.5	159.8	155.6
82.5°	196.5	187.6	183.8	184.7	175.3	165.0	155.6	130.7	111.9	104.4	102.0
85°	104.4	97.8	94.5	96.8	95.0	89.3	84.6	67.7	55.9	53.1	51.7
87.5°	32.9	28.7	26.3	34.8	29.6	26.3	25.4	20.2	15.5	15.5	15.0
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°	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2
2.5°	2012.4	2012.4	1994.0	1989.8	1987.9	1990.3	1971.9	1968.6	1995.0	1986.0	1965.8
5°	1996.4	1995.4	1969.6	1964.9	1964.9	1962.1	1941.4	1936.7	1963.0	1955.5	1933.4
7.5°	1976.6	1973.8	1943.3	1940.0	1935.3	1933.4	1910.4	1907.1	1929.6	1924.9	1904.2
10°	1952.7	1949.8	1913.6	1911.3	1906.1	1902.4	1880.7	1878.4	1901.4	1893.9	1877.5
12.5°	1921.2	1916.0	1878.9	1876.5	1872.3	1870.9	1849.7	1848.8	1874.2	1866.6	1849.2
15°	1879.8	1875.6	1834.2	1835.1	1835.6	1835.6	1818.7	1817.8	1842.7	1839.4	1820.6
17.5°	1834.2	1828.6	1789.1	1791.9	1795.2	1799.0	1785.8	1788.1	1814.5	1810.2	1793.3
20°	1782.5	1776.9	1738.3	1746.3	1753.4	1760.9	1752.4	1759.0	1783.4	1781.6	1768.9
22.5°	1724.7	1719.0	1683.3	1695.5	1707.3	1721.4	1717.6	1725.2	1751.0	1750.5	1739.3
25°	1654.2	1655.6	1624.1	1639.1	1658.9	1678.6	1680.0	1692.2	1720.9	1718.1	1707.8
27.5°	1588.4	1590.2	1556.9	1582.3	1608.6	1634.0	1640.1	1657.0	1686.1	1683.8	1674.9
30°	1519.3	1521.6	1489.2	1524.0	1555.9	1587.0	1600.1	1623.1	1652.8	1652.8	1643.4
32.5°	1447.3	1451.6	1417.7	1464.3	1501.4	1537.6	1560.6	1584.6	1618.4	1617.5	1609.5
35°	1373.5	1378.2	1347.2	1406.4	1443.6	1487.8	1516.4	1548.4	1578.5	1579.0	1572.8
37.5°	1298.3	1304.0	1275.8	1340.6	1382.9	1435.1	1471.8	1503.7	1537.1	1539.0	1533.4
40°	1223.6	1229.7	1205.3	1267.8	1321.4	1379.7	1422.0	1459.6	1496.2	1497.2	1493.4
42.5°	1148.8	1155.4	1137.1	1198.2	1258.8	1321.4	1371.2	1414.0	1451.6	1453.9	1449.7
45°	1076.0	1081.6	1068.5	1135.2	1193.5	1261.7	1319.0	1367.4	1405.5	1408.8	1407.4
47.5°	1003.6	1008.8	997.0	1058.1	1125.3	1197.7	1264.0	1317.6	1358.0	1361.8	1360.8
50°	932.6	936.8	924.2	988.1	1054.8	1131.9	1201.0	1263.1	1308.2	1312.0	1311.5
52.5°	862.1	866.3	855.5	922.7	983.4	1064.7	1139.9	1207.1	1251.8	1257.4	1258.4
55°	793.9	795.8	787.4	851.8	910.5	995.6	1082.1	1147.4	1192.1	1196.8	1199.6
57.5°	725.8	726.3	719.2	780.8	837.2	924.2	1014.9	1083.5	1125.8	1130.5	1134.7
60°	658.1	657.6	649.6	709.3	763.4	849.4	943.9	1012.1	1053.0	1057.2	1062.8
62.5°	590.9	589.5	582.4	637.4	688.2	773.3	868.2	934.0	973.0	975.9	983.4
65°	524.1	522.7	516.1	566.9	613.0	694.3	787.4	849.9	885.1	888.9	887.5
67.5°	458.3	455.5	450.3	495.9	537.8	613.0	702.3	762.0	791.1	794.4	803.3
70°	392.5	389.2	377.5	425.9	462.5	529.8	613.0	666.1	690.5	693.8	692.4
72.5°	327.6	324.3	311.7	356.3	387.3	446.1	520.4	564.6	585.7	588.5	588.5
75°	264.6	262.8	254.8	288.6	314.5	362.4	425.4	462.1	478.5	481.8	480.9
77.5°	204.0	202.6	194.6	223.8	244.0	279.7	330.5	359.1	371.4	375.1	383.1
80°	146.2	145.7	133.0	161.7	170.6	200.7	237.9	259.9	266.5	271.7	277.3
82.5°	93.5	94.0	81.3	105.8	109.5	128.8	151.8	165.5	170.2	174.4	178.6
85°	45.6	47.5	40.4	55.9	56.4	66.3	76.2	81.3	83.2	86.5	90.3
87.5°	11.8	13.6	7.5	16.0	14.1	18.3	21.2	22.6	22.1	24.4	25.9
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°	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2
2.5°	1972.4	1987.4	1979.9	2004.4	2013.8	1998.7	2025.1	2025.5	2006.7	2028.8	2041.0
5°	1941.9	1957.4	1952.7	1978.0	1989.8	1976.6	2008.6	2014.7	1996.4	2021.3	2041.0
7.5°	1910.8	1929.2	1923.1	1948.9	1963.0	1952.7	1987.0	1996.9	1982.7	2010.0	2036.3
10°	1884.0	1899.5	1893.0	1920.2	1932.5	1924.0	1957.8	1976.2	1963.0	1996.4	2027.9
12.5°	1857.7	1870.4	1862.9	1885.4	1897.2	1886.4	1927.8	1944.7	1935.3	1970.1	2010.5
15°	1823.9	1838.0	1827.6	1847.8	1856.8	1847.4	1881.2	1910.4	1898.6	1936.7	1981.3
17.5°	1798.0	1806.0	1791.9	1807.9	1813.1	1800.4	1834.7	1863.4	1854.9	1896.3	1948.0
20°	1769.3	1775.9	1756.2	1765.1	1764.6	1748.7	1780.1	1808.4	1802.7	1848.3	1907.1
22.5°	1737.4	1740.7	1717.6	1719.5	1718.6	1692.2	1720.5	1749.1	1746.8	1792.8	1858.7
25°	1703.5	1704.0	1674.4	1673.4	1663.1	1632.1	1657.0	1689.4	1682.4	1732.2	1801.3
27.5°	1670.2	1665.5	1629.7	1621.3	1604.8	1567.7	1589.8	1618.9	1614.7	1663.6	1740.2
30°	1634.4	1628.3	1584.6	1569.1	1545.1	1502.3	1520.7	1547.9	1550.3	1593.1	1673.4
32.5°	1600.6	1585.1	1536.7	1514.1	1484.0	1434.2	1444.1	1471.8	1475.5	1518.8	1601.5
35°	1556.9	1546.5	1486.8	1448.3	1418.7	1364.1	1374.5	1393.8	1399.4	1441.7	1525.8
37.5°	1515.5	1499.0	1435.6	1388.6	1350.5	1293.2	1296.0	1315.7	1321.4	1364.1	1447.3
40°	1472.7	1449.2	1381.1	1326.1	1282.3	1222.2	1218.9	1239.6	1243.8	1285.6	1360.8
42.5°	1427.1	1398.9	1322.3	1262.1	1211.8	1150.7	1144.1	1162.0	1166.7	1207.6	1281.4
45°	1381.1	1347.2	1262.1	1196.3	1141.3	1078.8	1072.2	1085.9	1092.9	1131.5	1202.4
47.5°	1332.2	1292.7	1200.1	1126.8	1069.9	1007.4	999.4	1013.0	1018.6	1056.7	1123.9
50°	1280.9	1233.0	1136.2	1055.3	998.9	937.3	925.6	941.5	946.7	982.4	1048.3
52.5°	1224.5	1171.4	1068.0	983.4	927.0	868.2	854.1	869.6	875.7	910.5	971.2
55°	1164.8	1107.5	999.4	917.1	856.0	798.6	786.9	793.0	806.2	839.1	895.5
57.5°	1097.6	1040.7	927.0	843.3	784.5	729.5	719.7	725.3	737.5	769.5	820.3
60°	1026.2	966.0	853.2	769.5	712.6	660.4	651.5	656.7	669.8	699.0	746.0
62.5°	955.6	888.0	777.0	693.8	642.1	593.7	591.3	589.5	601.7	629.9	671.3
65°	870.1	805.2	697.6	618.6	571.6	527.9	518.5	522.7	534.5	560.3	603.6
67.5°	778.4	719.7	616.3	543.4	501.6	462.5	454.6	456.4	468.7	491.2	528.8
70°	681.1	629.4	533.1	467.7	432.5	395.8	390.6	391.1	402.8	422.6	455.5
72.5°	579.1	532.6	448.9	393.0	363.8	337.5	332.8	327.2	338.0	354.9	383.1
75°	475.2	434.3	365.2	319.6	296.6	274.5	270.3	264.6	275.5	290.0	312.1
77.5°	370.4	337.5	283.9	248.7	230.8	214.4	210.6	204.5	215.3	226.1	243.5
80°	267.9	244.0	212.0	174.9	168.8	157.9	154.2	147.6	157.9	165.0	178.2
82.5°	173.0	157.0	138.7	112.8	111.9	103.9	102.0	94.5	103.9	108.1	118.0
85°	87.4	79.9	75.2	57.3	59.2	54.1	53.6	45.6	53.1	55.0	60.6
87.5°	24.9	26.3	23.5	14.1	17.9	16.9	16.9	12.2	16.9	16.9	19.3
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: P837869

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2	2015.2
2.5°	2017.1	2025.1	2026.9	2026.5	2031.6	2059.8	2050.4	2059.8
5°	2021.8	2039.6	2044.3	2050.9	2059.4	2091.3	2081.0	2092.3
7.5°	2024.6	2051.4	2061.7	2074.4	2088.0	2123.8	2115.3	2126.6
10°	2024.6	2059.4	2074.4	2095.6	2113.9	2155.3	2147.3	2160.4
12.5°	2016.1	2060.8	2081.9	2111.5	2135.1	2179.7	2176.4	2185.8
15°	1998.7	2053.7	2082.9	2120.9	2150.1	2199.9	2198.5	2209.8
17.5°	1975.2	2041.5	2076.8	2124.7	2161.4	2217.3	2220.6	2226.7
20°	1945.6	2018.5	2064.5	2123.3	2169.4	2230.9	2235.2	2243.6
22.5°	1906.6	1990.7	2046.2	2117.2	2170.3	2236.6	2244.1	2252.1
25°	1860.5	1957.4	2022.2	2105.4	2165.6	2236.1	2246.5	2253.5
27.5°	1807.9	1914.1	1991.7	2086.6	2152.4	2228.6	2241.3	2249.7
30°	1746.8	1868.1	1956.9	2062.2	2134.6	2214.5	2228.1	2236.6
32.5°	1683.8	1817.3	1915.5	2030.7	2108.7	2191.9	2203.7	2210.3
35°	1615.2	1755.7	1865.7	1990.3	2075.4	2155.7	2164.7	2171.7
37.5°	1540.4	1689.0	1808.8	1944.7	2028.3	2105.4	2113.4	2121.4
40°	1463.3	1618.9	1744.9	1888.7	1972.4	2043.9	2052.3	2058.0
42.5°	1385.8	1541.4	1676.7	1822.9	1906.1	1974.8	1979.9	1985.6
45°	1307.3	1461.0	1600.1	1750.1	1832.3	1896.7	1898.6	1903.3
47.5°	1227.3	1377.8	1516.0	1666.9	1748.2	1806.9	1808.8	1812.6
50°	1147.0	1294.6	1426.2	1577.1	1656.5	1718.6	1710.1	1713.9
52.5°	1068.0	1207.1	1341.6	1480.2	1558.7	1613.7	1616.1	1608.6
55°	990.4	1121.6	1245.2	1378.7	1453.5	1496.2	1494.8	1497.6
57.5°	911.9	1035.1	1148.4	1270.6	1343.5	1383.9	1392.3	1382.5
60°	832.0	947.7	1049.2	1159.7	1230.2	1264.0	1273.9	1264.5
62.5°	752.6	858.8	950.9	1047.3	1112.7	1154.5	1153.5	1143.2
65°	673.1	769.5	851.8	933.6	990.4	1032.3	1030.4	1021.0
67.5°	599.8	679.2	753.0	819.3	868.7	897.4	907.2	896.0
70°	519.0	587.6	652.5	705.6	746.5	772.3	781.7	771.9
72.5°	438.1	496.4	542.0	593.2	624.7	646.3	656.2	646.8
75°	358.2	406.1	443.3	483.2	505.3	523.7	534.9	525.5
77.5°	280.6	317.8	347.4	376.5	401.9	406.1	416.0	409.9
80°	206.8	233.6	255.2	274.5	292.9	294.7	302.7	299.0
82.5°	137.7	155.6	161.2	181.4	193.2	191.3	199.3	196.5
85°	72.9	83.7	93.5	99.7	106.2	100.1	107.2	104.4
87.5°	24.4	25.9	22.6	32.0	35.3	30.1	34.3	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)