

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: P838031

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-50-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838031
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-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

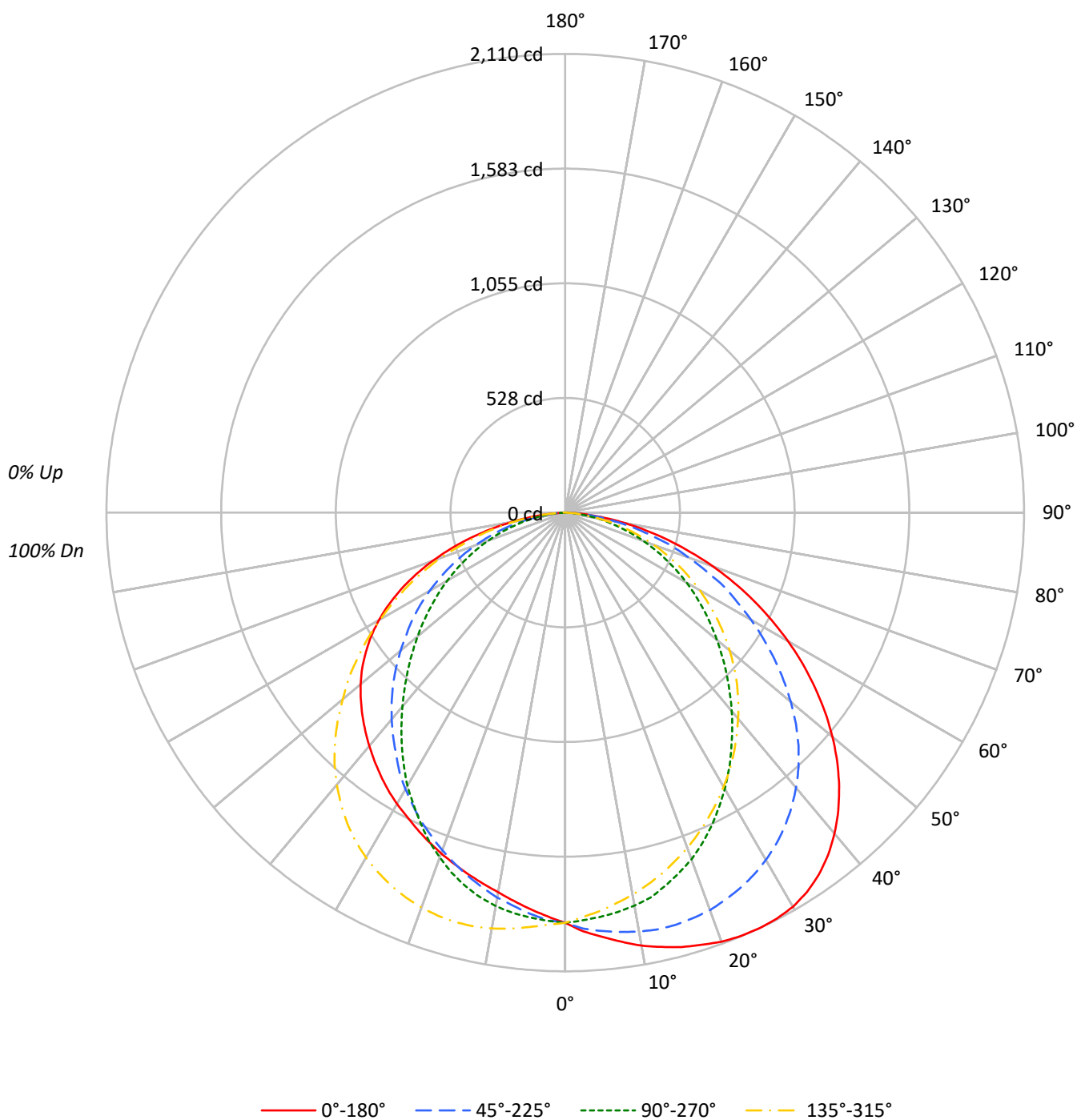
Lumens per Lamp: N/A
Luminaire Lumens: 5534.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	5077	5077	5077	5077
5°	5291	5040	4945	5049
10°	5526	5014	4845	5021
15°	5763	4951	4797	4952
20°	6015	4861	4776	4833
25°	6264	4725	4776	4676
30°	6506	4560	4808	4510
35°	6679	4373	4856	4304
40°	6768	4185	4924	4090
45°	6781	3994	5019	3894
50°	6717	3812	5142	3710
55°	6578	3642	5256	3541
60°	6371	3465	5327	3375
65°	6086	3261	5299	3186
70°	5685	3023	5110	2967
75°	5115	2695	4690	2681
80°	4338	2258	3942	2292
85°	3017	1494	2501	1535

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	3.2
10°-20°	518.7	9.4
20°-30°	794.9	14.4
30°-40°	966.5	17.5
40°-50°	1004.8	18.2
50°-60°	907.6	16.4
60°-70°	690.0	12.5
70°-80°	384.7	7.0
80°-90°	88.6	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°	1492.7	27.0
0°-40°	2459.2	44.4
0°-60°	4371.6	79.0
0°-90°	5534.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5534.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1887	1887	1887	1887	1887	
5°	1959	1866	1831	1869	1959	189
15°	2069	1777	1722	1777	2069	587
25°	2110	1591	1608	1575	2110	974
35°	2033	1331	1478	1310	2033	1270
45°	1782	1050	1319	1023	1782	1372
55°	1402	776	1120	755	1402	1252
65°	956	512	832	500	956	945
75°	492	259	451	258	492	523
85°	98	48	81	50	98	123
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°	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6
2.5°	1928.4	1900.2	1900.6	1925.3	1906.4	1915.6	1889.2	1899.3	1896.2	1898.4	1876.9
5°	1958.7	1928.4	1927.9	1949.0	1927.9	1931.9	1898.4	1905.0	1895.4	1889.2	1865.9
7.5°	1990.9	1960.5	1957.4	1975.9	1948.2	1945.1	1908.1	1908.1	1890.5	1875.1	1853.1
10°	2022.5	1991.3	1987.3	2001.4	1967.1	1957.0	1912.1	1905.0	1881.7	1858.8	1835.1
12.5°	2046.3	2014.6	2011.5	2020.3	1981.6	1963.1	1912.1	1898.4	1864.1	1832.0	1813.5
15°	2068.7	2036.2	2027.8	2032.2	1987.8	1963.1	1905.9	1884.8	1840.8	1798.5	1777.0
17.5°	2084.6	2053.3	2045.0	2044.5	1990.9	1955.6	1892.7	1863.7	1810.9	1759.8	1738.3
20°	2100.4	2069.2	2058.6	2050.7	1990.0	1945.5	1873.4	1834.2	1772.6	1715.4	1697.3
22.5°	2108.3	2076.2	2064.8	2052.9	1984.2	1927.0	1849.6	1799.9	1729.5	1661.2	1646.3
25°	2109.7	2076.7	2064.3	2047.2	1972.8	1905.0	1818.8	1758.5	1679.7	1604.0	1591.3
27.5°	2106.1	2070.1	2057.7	2037.1	1955.6	1878.2	1782.3	1711.4	1626.9	1543.3	1529.7
30°	2093.8	2057.3	2045.4	2018.6	1931.4	1845.2	1742.2	1659.0	1568.4	1479.5	1467.6
32.5°	2069.2	2033.5	2023.9	1997.0	1905.0	1806.9	1695.6	1602.7	1503.7	1418.8	1401.2
35°	2033.1	1997.5	1991.3	1963.1	1868.1	1761.1	1644.5	1541.1	1435.0	1348.4	1331.2
37.5°	1986.0	1956.1	1946.8	1919.1	1824.5	1709.2	1586.0	1474.2	1365.1	1271.8	1261.2
40°	1926.6	1898.4	1891.4	1866.8	1773.9	1651.6	1522.6	1405.1	1292.9	1206.2	1191.3
42.5°	1858.8	1832.4	1828.5	1802.9	1711.4	1587.8	1454.0	1333.4	1217.7	1134.0	1119.1
45°	1781.8	1756.3	1755.4	1731.2	1643.2	1516.9	1381.8	1260.8	1144.2	1057.5	1049.6
47.5°	1696.9	1674.0	1674.0	1651.6	1567.1	1439.0	1307.4	1185.1	1070.2	993.7	979.6
50°	1604.5	1582.9	1576.3	1565.3	1483.0	1354.1	1229.1	1111.2	997.2	924.1	910.5
52.5°	1505.9	1487.4	1491.8	1471.6	1391.9	1265.6	1149.9	1028.0	923.7	857.2	843.6
55°	1402.0	1375.6	1379.6	1372.1	1296.9	1174.5	1061.0	959.3	851.5	789.0	776.3
57.5°	1294.2	1259.9	1274.0	1269.6	1195.7	1081.2	979.6	881.4	779.8	722.1	709.8
60°	1183.8	1150.8	1165.3	1161.3	1091.8	987.9	895.5	804.4	708.5	656.1	643.8
62.5°	1070.2	1039.9	1053.1	1050.0	986.2	892.5	811.9	728.3	636.8	589.7	578.2
65°	955.8	926.8	938.7	936.5	877.5	806.2	726.1	649.5	564.6	523.7	512.2
67.5°	838.8	811.9	822.9	822.9	768.8	700.6	639.9	569.9	493.8	458.5	448.0
70°	722.6	697.5	707.2	706.3	660.5	605.1	552.7	490.2	422.0	393.0	384.2
72.5°	605.5	583.5	592.3	591.4	553.2	517.5	465.6	411.5	352.1	328.7	320.8
75°	492.0	471.3	479.7	478.8	447.5	414.1	379.3	334.4	283.4	267.1	259.2
77.5°	383.7	362.6	369.7	369.7	346.8	322.6	294.8	260.1	224.0	206.4	200.7
80°	279.9	269.8	266.2	266.7	251.3	235.4	221.4	187.9	161.5	149.6	145.7
82.5°	183.9	175.6	172.1	172.9	164.1	154.5	145.7	122.3	104.7	97.7	95.5
85°	97.7	91.5	88.5	90.7	88.9	83.6	79.2	63.4	52.4	49.7	48.4
87.5°	30.8	26.8	24.6	32.6	27.7	24.6	23.8	18.9	14.5	14.5	14.1
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°	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6
2.5°	1883.9	1883.9	1866.8	1862.8	1861.0	1863.2	1846.1	1843.0	1867.6	1859.3	1840.3
5°	1869.0	1868.1	1843.9	1839.5	1839.5	1836.8	1817.5	1813.1	1837.7	1830.7	1810.0
7.5°	1850.5	1847.8	1819.2	1816.1	1811.7	1810.0	1788.4	1785.3	1806.5	1802.1	1782.7
10°	1828.0	1825.4	1791.5	1789.3	1784.5	1780.9	1760.7	1758.5	1780.1	1773.0	1757.6
12.5°	1798.5	1793.7	1758.9	1756.7	1752.8	1751.5	1731.7	1730.8	1754.5	1747.5	1731.2
15°	1759.8	1755.9	1717.1	1718.0	1718.5	1718.5	1702.6	1701.7	1725.1	1722.0	1704.4
17.5°	1717.1	1711.8	1674.9	1677.5	1680.6	1684.1	1671.8	1674.0	1698.6	1694.7	1678.8
20°	1668.7	1663.4	1627.4	1634.8	1641.4	1648.5	1640.6	1646.7	1669.6	1667.8	1656.0
22.5°	1614.6	1609.3	1575.9	1587.3	1598.3	1611.5	1608.0	1615.0	1639.2	1638.8	1628.2
25°	1548.6	1549.9	1520.4	1534.5	1553.0	1571.5	1572.8	1584.2	1611.1	1608.4	1598.8
27.5°	1487.0	1488.7	1457.5	1481.3	1505.9	1529.7	1535.4	1551.2	1578.5	1576.3	1567.9
30°	1422.3	1424.5	1394.1	1426.7	1456.6	1485.7	1498.0	1519.5	1547.3	1547.3	1538.5
32.5°	1355.0	1358.9	1327.2	1370.8	1405.6	1439.4	1461.0	1483.5	1515.1	1514.3	1506.8
35°	1285.9	1290.3	1261.2	1316.7	1351.4	1392.8	1419.6	1449.6	1477.7	1478.2	1472.5
37.5°	1215.5	1220.7	1194.3	1255.1	1294.7	1343.5	1377.8	1407.8	1439.0	1440.8	1435.5
40°	1145.5	1151.2	1128.3	1186.9	1237.0	1291.6	1331.2	1366.4	1400.7	1401.6	1398.1
42.5°	1075.5	1081.7	1064.5	1121.7	1178.5	1237.0	1283.7	1323.7	1358.9	1361.1	1357.2
45°	1007.3	1012.6	1000.3	1062.8	1117.3	1181.1	1234.8	1280.1	1315.8	1318.9	1317.6
47.5°	939.5	944.4	933.4	990.6	1053.5	1121.3	1183.3	1233.5	1271.3	1274.9	1274.0
50°	873.1	877.0	865.2	925.0	987.5	1059.7	1124.4	1182.5	1224.7	1228.2	1227.8
52.5°	807.1	811.0	800.9	863.8	920.6	996.7	1067.2	1130.1	1171.9	1177.2	1178.1
55°	743.3	745.0	737.1	797.4	852.4	932.1	1013.0	1074.2	1116.0	1120.4	1123.0
57.5°	679.5	679.9	673.3	730.9	783.8	865.2	950.1	1014.3	1054.0	1058.4	1062.3
60°	616.1	615.6	608.2	664.1	714.7	795.2	883.6	947.5	985.7	989.7	995.0
62.5°	553.2	551.8	545.2	596.7	644.3	723.9	812.8	874.4	910.9	913.6	920.6
65°	490.7	489.4	483.2	530.7	573.8	650.0	737.1	795.6	828.6	832.2	830.8
67.5°	429.1	426.4	421.6	464.3	503.4	573.8	657.5	713.3	740.6	743.7	752.1
70°	367.5	364.4	353.4	398.7	433.0	496.0	573.8	623.6	646.5	649.5	648.2
72.5°	306.7	303.6	291.8	333.6	362.6	417.6	487.2	528.5	548.3	551.0	551.0
75°	247.8	246.0	238.5	270.2	294.4	339.3	398.3	432.6	448.0	451.1	450.2
77.5°	191.0	189.7	182.2	209.5	228.4	261.8	309.4	336.2	347.7	351.2	358.7
80°	136.9	136.4	124.5	151.4	159.7	187.9	222.7	243.4	249.5	254.4	259.6
82.5°	87.6	88.0	76.1	99.0	102.5	120.6	142.1	154.9	159.3	163.3	167.2
85°	42.7	44.4	37.8	52.4	52.8	62.0	71.3	76.1	77.9	81.0	84.5
87.5°	11.0	12.8	7.0	15.0	13.2	17.2	19.8	21.1	20.7	22.9	24.2
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°	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6
2.5°	1846.5	1860.6	1853.6	1876.4	1885.2	1871.2	1895.8	1896.2	1878.6	1899.3	1910.8
5°	1817.9	1832.4	1828.0	1851.8	1862.8	1850.5	1880.4	1886.1	1869.0	1892.3	1910.8
7.5°	1788.9	1806.0	1800.3	1824.5	1837.7	1828.0	1860.2	1869.4	1856.2	1881.7	1906.4
10°	1763.8	1778.3	1772.1	1797.7	1809.1	1801.2	1832.9	1850.0	1837.7	1869.0	1898.4
12.5°	1739.1	1751.0	1744.0	1765.1	1776.1	1766.0	1804.7	1820.5	1811.7	1844.3	1882.2
15°	1707.4	1720.7	1711.0	1729.9	1738.3	1729.5	1761.1	1788.4	1777.4	1813.1	1854.9
17.5°	1683.2	1690.7	1677.5	1692.5	1697.3	1685.4	1717.6	1744.4	1736.5	1775.2	1823.6
20°	1656.4	1662.6	1644.1	1652.4	1652.0	1637.0	1666.5	1692.9	1687.6	1730.3	1785.3
22.5°	1626.5	1629.6	1608.0	1609.8	1608.9	1584.2	1610.6	1637.5	1635.3	1678.4	1740.0
25°	1594.8	1595.2	1567.5	1566.6	1556.9	1527.9	1551.2	1581.6	1575.0	1621.6	1686.3
27.5°	1563.5	1559.1	1525.7	1517.8	1502.4	1467.6	1488.3	1515.6	1511.6	1557.4	1629.1
30°	1530.1	1524.4	1483.5	1468.9	1446.5	1406.4	1423.6	1449.1	1451.3	1491.4	1566.6
32.5°	1498.4	1483.9	1438.6	1417.4	1389.3	1342.6	1351.9	1377.8	1381.4	1421.8	1499.3
35°	1457.5	1447.8	1391.9	1355.8	1328.1	1277.1	1286.7	1304.8	1310.1	1349.7	1428.4
37.5°	1418.8	1403.4	1344.0	1299.9	1264.3	1210.6	1213.3	1231.7	1237.0	1277.1	1355.0
40°	1378.7	1356.7	1292.9	1241.4	1200.5	1144.2	1141.1	1160.4	1164.4	1203.6	1274.0
42.5°	1336.0	1309.6	1237.9	1181.6	1134.5	1077.3	1071.1	1087.8	1092.2	1130.5	1199.6
45°	1292.9	1261.2	1181.6	1120.0	1068.5	1009.9	1003.8	1016.5	1023.1	1059.2	1125.7
47.5°	1247.1	1210.2	1123.5	1054.8	1001.6	943.1	935.6	948.3	953.6	989.3	1052.2
50°	1199.2	1154.3	1063.6	987.9	935.1	877.5	866.5	881.4	886.3	919.7	981.3
52.5°	1146.4	1096.6	999.8	920.6	867.8	812.8	799.6	814.1	819.8	852.4	909.2
55°	1090.5	1036.8	935.6	858.6	801.4	747.7	736.7	742.4	754.7	785.5	838.3
57.5°	1027.5	974.3	867.8	789.5	734.5	683.0	673.7	679.0	690.5	720.4	767.9
60°	960.7	904.3	798.7	720.4	667.1	618.3	609.9	614.8	627.1	654.4	698.4
62.5°	894.7	831.3	727.4	649.5	601.1	555.8	553.6	551.8	563.3	589.7	628.4
65°	814.6	753.8	653.1	579.1	535.1	494.2	485.4	489.4	500.4	524.6	565.0
67.5°	728.7	673.7	576.9	508.7	469.5	433.0	425.5	427.3	438.7	459.9	495.1
70°	637.7	589.2	499.0	437.9	404.9	370.5	365.7	366.1	377.1	395.6	426.4
72.5°	542.2	498.6	420.3	367.9	340.6	316.0	311.6	306.3	316.4	332.2	358.7
75°	444.9	406.6	341.9	299.2	277.7	257.0	253.0	247.8	257.9	271.5	292.2
77.5°	346.8	316.0	265.8	232.8	216.1	200.7	197.1	191.4	201.5	211.7	228.0
80°	250.8	228.4	198.5	163.7	158.0	147.9	144.3	138.2	147.9	154.5	166.8
82.5°	161.9	147.0	129.8	105.6	104.7	97.3	95.5	88.5	97.3	101.2	110.5
85°	81.9	74.8	70.4	53.7	55.4	50.6	50.2	42.7	49.7	51.5	56.8
87.5°	23.3	24.6	22.0	13.2	16.7	15.8	15.8	11.4	15.8	15.8	18.0
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: P838031

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6	1886.6
2.5°	1888.3	1895.8	1897.6	1897.1	1902.0	1928.4	1919.6	1928.4
5°	1892.7	1909.4	1913.8	1920.0	1927.9	1957.8	1948.2	1958.7
7.5°	1895.4	1920.4	1930.1	1942.0	1954.8	1988.2	1980.3	1990.9
10°	1895.4	1927.9	1942.0	1961.8	1979.0	2017.7	2010.2	2022.5
12.5°	1887.4	1929.2	1949.0	1976.8	1998.8	2040.6	2037.5	2046.3
15°	1871.2	1922.6	1949.9	1985.6	2012.9	2059.5	2058.2	2068.7
17.5°	1849.1	1911.2	1944.2	1989.1	2023.4	2075.8	2078.9	2084.6
20°	1821.4	1889.6	1932.8	1987.8	2030.9	2088.5	2092.5	2100.4
22.5°	1784.9	1863.7	1915.6	1982.0	2031.8	2093.8	2100.9	2108.3
25°	1741.8	1832.4	1893.2	1971.0	2027.4	2093.4	2103.1	2109.7
27.5°	1692.5	1791.9	1864.6	1953.4	2015.1	2086.3	2098.2	2106.1
30°	1635.3	1748.8	1832.0	1930.6	1998.3	2073.1	2085.9	2093.8
32.5°	1576.3	1701.3	1793.3	1901.1	1974.1	2052.0	2063.0	2069.2
35°	1512.1	1643.6	1746.6	1863.2	1942.9	2018.1	2026.5	2033.1
37.5°	1442.1	1581.2	1693.4	1820.5	1898.9	1971.0	1978.5	1986.0
40°	1369.9	1515.6	1633.5	1768.2	1846.5	1913.4	1921.3	1926.6
42.5°	1297.3	1443.0	1569.7	1706.6	1784.5	1848.7	1853.6	1858.8
45°	1223.8	1367.7	1498.0	1638.4	1715.4	1775.7	1777.4	1781.8
47.5°	1149.0	1289.8	1419.2	1560.5	1636.6	1691.6	1693.4	1696.9
50°	1073.8	1211.9	1335.2	1476.4	1550.8	1608.9	1601.0	1604.5
52.5°	999.8	1130.1	1255.9	1385.8	1459.3	1510.7	1512.9	1505.9
55°	927.2	1050.0	1165.7	1290.7	1360.7	1400.7	1399.4	1402.0
57.5°	853.7	969.0	1075.1	1189.5	1257.7	1295.5	1303.5	1294.2
60°	778.9	887.2	982.2	1085.6	1151.6	1183.3	1192.6	1183.8
62.5°	704.5	804.0	890.2	980.5	1041.6	1080.8	1079.9	1070.2
65°	630.2	720.4	797.4	874.0	927.2	966.4	964.6	955.8
67.5°	561.5	635.9	705.0	767.0	813.2	840.1	849.3	838.8
70°	485.8	550.1	610.8	660.5	698.8	723.0	731.8	722.6
72.5°	410.1	464.7	507.4	555.4	584.8	605.1	614.3	605.5
75°	335.3	380.2	415.0	452.4	473.1	490.2	500.8	492.0
77.5°	262.7	297.5	325.2	352.5	376.3	380.2	389.5	383.7
80°	193.6	218.7	239.0	257.0	274.2	275.9	283.4	279.9
82.5°	128.9	145.7	150.9	169.9	180.9	179.1	186.6	183.9
85°	68.2	78.3	87.6	93.3	99.5	93.7	100.3	97.7
87.5°	22.9	24.2	21.1	29.9	33.0	28.2	32.1	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)