

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: P838027

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-50-120-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: P838027
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-LD4-3HI-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

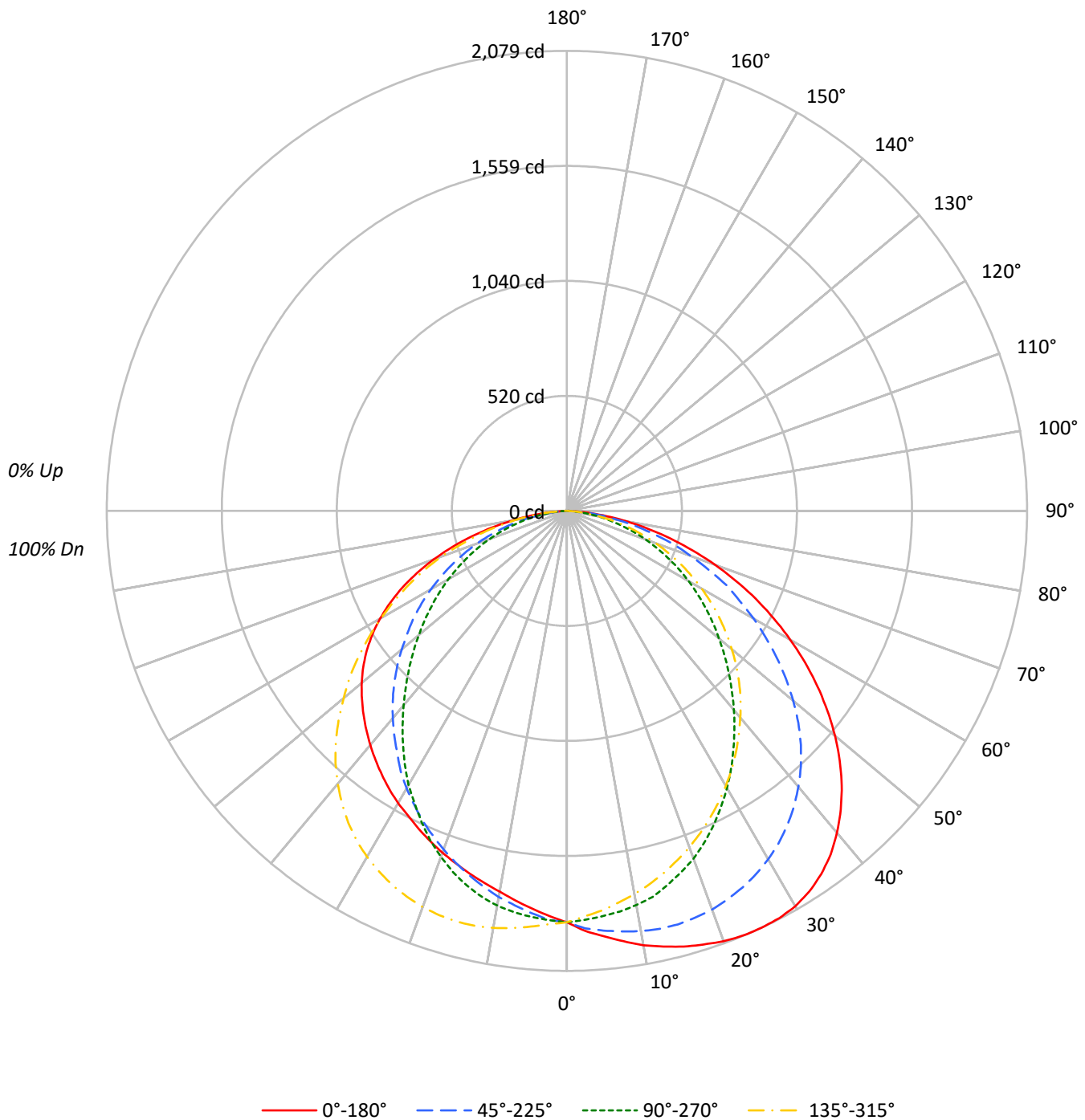
Lumens per Lamp: N/A
Luminaire Lumens: 5454.7 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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°	5003	5003	5003	5003
5°	5215	4967	4874	4975
10°	5446	4942	4774	4949
15°	5680	4879	4728	4880
20°	5928	4790	4707	4763
25°	6173	4656	4706	4609
30°	6412	4494	4738	4444
35°	6582	4310	4786	4241
40°	6670	4124	4852	4031
45°	6683	3937	4947	3837
50°	6620	3756	5067	3657
55°	6482	3589	5180	3490
60°	6279	3415	5250	3326
65°	5998	3214	5222	3140
70°	5603	2979	5036	2924
75°	5042	2655	4622	2642
80°	4274	2225	3885	2258
85°	2973	1473	2464	1513

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	3.2
10°-20°	511.2	9.4
20°-30°	783.4	14.4
30°-40°	952.5	17.5
40°-50°	990.2	18.2
50°-60°	894.5	16.4
60°-70°	680.0	12.5
70°-80°	379.1	7.0
80°-90°	87.3	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°	1471.1	27.0
0°-40°	2423.6	44.4
0°-60°	4308.3	79.0
0°-90°	5454.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5454.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1859	1859	1859	1859	1859	
5°	1930	1839	1804	1842	1930	186
15°	2039	1751	1697	1752	2039	578
25°	2079	1568	1585	1552	2079	960
35°	2004	1312	1457	1291	2004	1251
45°	1756	1034	1300	1008	1756	1352
55°	1382	765	1104	744	1382	1233
65°	942	505	820	493	942	931
75°	485	255	444	254	485	515
85°	96	48	80	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°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1900.4	1872.7	1873.1	1897.4	1878.7	1887.9	1861.8	1871.8	1868.8	1870.9	1849.7
5°	1930.4	1900.4	1900.0	1920.8	1900.0	1903.9	1870.9	1877.4	1867.9	1861.8	1838.8
7.5°	1962.0	1932.1	1929.1	1947.3	1919.9	1916.9	1880.5	1880.5	1863.1	1848.0	1826.3
10°	1993.2	1962.5	1958.5	1972.4	1938.6	1928.6	1884.4	1877.4	1854.5	1831.9	1808.5
12.5°	2016.7	1985.4	1982.4	1991.1	1952.9	1934.7	1884.4	1870.9	1837.1	1805.5	1787.2
15°	2038.8	2006.7	1998.4	2002.8	1959.0	1934.7	1878.3	1857.5	1814.1	1772.5	1751.2
17.5°	2054.4	2023.6	2015.4	2014.9	1962.0	1927.3	1865.3	1836.7	1784.6	1734.3	1713.1
20°	2070.0	2039.2	2028.8	2021.0	1961.2	1917.3	1846.2	1807.6	1746.9	1690.5	1672.7
22.5°	2077.8	2046.2	2034.9	2023.2	1955.5	1899.1	1822.8	1773.8	1704.4	1637.2	1622.4
25°	2079.1	2046.6	2034.4	2017.5	1944.2	1877.4	1792.4	1733.0	1655.4	1580.8	1568.2
27.5°	2075.6	2040.1	2027.9	2007.6	1927.3	1851.0	1756.4	1686.6	1603.4	1521.0	1507.5
30°	2063.5	2027.5	2015.8	1989.3	1903.5	1818.5	1717.0	1635.0	1545.7	1458.1	1446.4
32.5°	2039.2	2004.1	1994.5	1968.1	1877.4	1780.7	1671.0	1579.5	1481.9	1398.2	1380.9
35°	2003.7	1968.5	1962.5	1934.7	1841.0	1735.6	1620.7	1518.8	1414.3	1328.8	1311.9
37.5°	1957.2	1927.8	1918.6	1891.3	1798.1	1684.5	1563.0	1452.9	1345.3	1253.4	1243.0
40°	1898.7	1870.9	1864.0	1839.7	1748.2	1627.6	1500.6	1384.8	1274.2	1188.7	1174.0
42.5°	1831.9	1805.9	1802.0	1776.8	1686.6	1564.8	1432.9	1314.1	1200.0	1117.6	1102.9
45°	1756.0	1730.9	1730.0	1706.1	1619.4	1494.9	1361.8	1242.5	1127.6	1042.2	1034.4
47.5°	1672.3	1649.8	1649.8	1627.6	1544.4	1418.2	1288.5	1167.9	1054.7	979.3	965.4
50°	1581.2	1560.0	1553.5	1542.6	1461.5	1334.5	1211.3	1095.1	982.7	910.8	897.3
52.5°	1484.1	1465.9	1470.2	1450.3	1371.8	1247.3	1133.2	1013.1	910.3	844.8	831.4
55°	1381.7	1355.7	1359.6	1352.2	1278.1	1157.5	1045.6	945.4	839.2	777.6	765.0
57.5°	1275.5	1241.7	1255.5	1251.2	1178.3	1065.6	965.4	868.7	768.5	711.7	699.5
60°	1166.6	1134.1	1148.4	1144.5	1076.0	973.6	882.6	792.8	698.2	646.6	634.5
62.5°	1054.7	1024.8	1037.8	1034.8	971.9	879.5	800.2	717.8	627.6	581.1	569.9
65°	942.0	913.4	925.1	922.9	864.8	794.5	715.6	640.1	556.4	516.1	504.8
67.5°	826.6	800.2	811.0	811.0	757.7	690.4	630.6	561.6	486.6	451.9	441.5
70°	712.1	687.4	696.9	696.1	651.0	596.3	544.7	483.1	415.9	387.3	378.6
72.5°	596.8	575.1	583.7	582.9	545.1	510.0	458.8	405.5	347.0	324.0	316.2
75°	484.9	464.5	472.7	471.9	441.1	408.1	373.8	329.6	279.3	263.3	255.4
77.5°	378.2	357.4	364.3	364.3	341.7	317.9	290.6	256.3	220.7	203.4	197.8
80°	275.8	265.9	262.4	262.8	247.6	232.0	218.1	185.2	159.2	147.5	143.6
82.5°	181.3	173.0	169.6	170.4	161.8	152.2	143.6	120.6	103.2	96.3	94.1
85°	96.3	90.2	87.2	89.3	87.6	82.4	78.1	62.5	51.6	49.0	47.7
87.5°	30.4	26.5	24.3	32.1	27.3	24.3	23.4	18.6	14.3	14.3	13.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1856.6	1856.6	1839.7	1835.8	1834.1	1836.2	1819.3	1816.3	1840.6	1832.3	1813.7
5°	1841.9	1841.0	1817.2	1812.8	1812.8	1810.2	1791.1	1786.8	1811.1	1804.2	1783.8
7.5°	1823.7	1821.1	1792.9	1789.8	1785.5	1783.8	1762.5	1759.5	1780.3	1776.0	1756.9
10°	1801.6	1798.9	1765.6	1763.4	1758.6	1755.1	1735.2	1733.0	1754.3	1747.3	1732.2
12.5°	1772.5	1767.7	1733.5	1731.3	1727.4	1726.1	1706.6	1705.7	1729.1	1722.2	1706.1
15°	1734.3	1730.4	1692.3	1693.1	1693.6	1693.6	1678.0	1677.1	1700.1	1697.0	1679.7
17.5°	1692.3	1687.1	1650.6	1653.2	1656.3	1659.7	1647.6	1649.8	1674.0	1670.1	1654.5
20°	1644.6	1639.4	1603.8	1611.2	1617.7	1624.6	1616.8	1622.9	1645.4	1643.7	1632.0
22.5°	1591.2	1586.0	1553.0	1564.3	1575.2	1588.2	1584.7	1591.6	1615.5	1615.1	1604.7
25°	1526.2	1527.5	1498.4	1512.3	1530.5	1548.7	1550.0	1561.3	1587.7	1585.1	1575.6
27.5°	1465.4	1467.2	1436.4	1459.8	1484.1	1507.5	1513.1	1528.8	1555.6	1553.5	1545.2
30°	1401.7	1403.9	1373.9	1406.0	1435.5	1464.1	1476.3	1497.5	1524.9	1524.9	1516.2
32.5°	1335.3	1339.2	1308.0	1350.9	1385.2	1418.6	1439.9	1462.0	1493.2	1492.3	1485.0
35°	1267.2	1271.6	1243.0	1297.6	1331.9	1372.6	1399.1	1428.6	1456.3	1456.8	1451.1
37.5°	1197.9	1203.1	1177.0	1236.9	1275.9	1324.1	1357.9	1387.4	1418.2	1419.9	1414.7
40°	1128.9	1134.5	1112.0	1169.7	1219.1	1272.9	1311.9	1346.6	1380.4	1381.3	1377.8
42.5°	1059.9	1066.0	1049.1	1105.5	1161.4	1219.1	1265.1	1304.5	1339.2	1341.4	1337.5
45°	992.7	997.9	985.8	1047.4	1101.1	1164.0	1216.9	1261.6	1296.7	1299.8	1298.5
47.5°	925.9	930.7	919.9	976.2	1038.3	1105.0	1166.2	1215.6	1252.9	1256.4	1255.5
50°	860.4	864.3	852.6	911.6	973.2	1044.3	1108.1	1165.3	1207.0	1210.4	1210.0
52.5°	795.4	799.3	789.3	851.3	907.3	982.3	1051.7	1113.7	1154.9	1160.1	1161.0
55°	732.5	734.2	726.4	785.8	840.1	918.6	998.4	1058.6	1099.8	1104.2	1106.8
57.5°	669.6	670.1	663.5	720.4	772.4	852.6	936.3	999.7	1038.7	1043.0	1046.9
60°	607.2	606.7	599.4	654.4	704.3	783.7	870.9	933.7	971.5	975.4	980.6
62.5°	545.1	543.8	537.3	588.1	634.9	713.4	801.0	861.7	897.7	900.3	907.3
65°	483.6	482.3	476.2	523.0	565.5	640.6	726.4	784.1	816.6	820.1	818.8
67.5°	422.8	420.2	415.5	457.5	496.1	565.5	647.9	703.0	729.9	732.9	741.2
70°	362.1	359.1	348.3	392.9	426.8	488.8	565.5	614.5	637.1	640.1	638.8
72.5°	302.3	299.2	287.5	328.7	357.4	411.6	480.1	520.9	540.4	543.0	543.0
75°	244.2	242.4	235.1	266.3	290.1	334.4	392.5	426.3	441.5	444.5	443.7
77.5°	188.2	186.9	179.5	206.4	225.1	258.0	304.9	331.3	342.6	346.1	353.5
80°	134.9	134.4	122.7	149.2	157.4	185.2	219.4	239.8	245.9	250.7	255.9
82.5°	86.3	86.7	75.0	97.6	101.0	118.8	140.1	152.7	157.0	160.9	164.8
85°	42.1	43.8	37.3	51.6	52.0	61.2	70.3	75.0	76.8	79.8	83.3
87.5°	10.8	12.6	6.9	14.7	13.0	16.9	19.5	20.8	20.4	22.6	23.9
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°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1819.8	1833.6	1826.7	1849.3	1857.9	1844.1	1868.3	1868.8	1851.4	1871.8	1883.1
5°	1791.6	1805.9	1801.6	1825.0	1835.8	1823.7	1853.2	1858.8	1841.9	1864.9	1883.1
7.5°	1763.0	1779.9	1774.2	1798.1	1811.1	1801.6	1833.2	1842.3	1829.3	1854.5	1878.7
10°	1738.2	1752.5	1746.5	1771.6	1782.9	1775.1	1806.3	1823.2	1811.1	1841.9	1870.9
12.5°	1713.9	1725.7	1718.7	1739.5	1750.4	1740.4	1778.6	1794.2	1785.5	1817.6	1854.9
15°	1682.7	1695.7	1686.2	1704.8	1713.1	1704.4	1735.6	1762.5	1751.7	1786.8	1828.0
17.5°	1658.9	1666.2	1653.2	1668.0	1672.7	1661.0	1692.7	1719.2	1711.3	1749.5	1797.2
20°	1632.4	1638.5	1620.3	1628.5	1628.1	1613.3	1642.4	1668.4	1663.2	1705.3	1759.5
22.5°	1602.9	1606.0	1584.7	1586.4	1585.6	1561.3	1587.3	1613.8	1611.6	1654.1	1714.8
25°	1571.7	1572.1	1544.8	1543.9	1534.4	1505.8	1528.8	1558.7	1552.2	1598.2	1661.9
27.5°	1540.9	1536.6	1503.6	1495.8	1480.6	1446.4	1466.7	1493.6	1489.7	1534.8	1605.5
30°	1507.9	1502.3	1462.0	1447.7	1425.5	1386.1	1403.0	1428.1	1430.3	1469.8	1543.9
32.5°	1476.7	1462.4	1417.7	1396.9	1369.2	1323.2	1332.3	1357.9	1361.4	1401.3	1477.6
35°	1436.4	1426.8	1371.8	1336.2	1308.9	1258.6	1268.1	1285.9	1291.1	1330.1	1407.8
37.5°	1398.2	1383.0	1324.5	1281.1	1246.0	1193.1	1195.7	1213.9	1219.1	1258.6	1335.3
40°	1358.8	1337.1	1274.2	1223.4	1183.1	1127.6	1124.6	1143.6	1147.5	1186.1	1255.5
42.5°	1316.7	1290.7	1220.0	1164.5	1118.1	1061.7	1055.6	1072.1	1076.4	1114.2	1182.2
45°	1274.2	1243.0	1164.5	1103.7	1053.0	995.3	989.2	1001.8	1008.3	1043.9	1109.4
47.5°	1229.1	1192.6	1107.2	1039.6	987.1	929.4	922.0	934.6	939.8	974.9	1037.0
50°	1181.8	1137.6	1048.2	973.6	921.6	864.8	853.9	868.7	873.5	906.4	967.1
52.5°	1129.8	1080.8	985.3	907.3	855.2	801.0	788.0	802.3	808.0	840.1	896.0
55°	1074.7	1021.8	922.0	846.1	789.8	736.8	726.0	731.6	743.8	774.1	826.2
57.5°	1012.7	960.2	855.2	778.0	723.8	673.1	664.0	669.2	680.5	710.0	756.8
60°	946.7	891.2	787.1	710.0	657.5	609.3	601.1	605.9	618.0	644.9	688.3
62.5°	881.7	819.2	716.9	640.1	592.4	547.8	545.6	543.8	555.1	581.1	619.3
65°	802.8	742.9	643.6	570.7	527.4	487.0	478.4	482.3	493.1	517.0	556.9
67.5°	718.2	664.0	568.6	501.3	462.7	426.8	419.4	421.1	432.4	453.2	487.9
70°	628.4	580.7	491.8	431.5	399.0	365.2	360.4	360.8	371.7	389.9	420.2
72.5°	534.3	491.4	414.2	362.6	335.7	311.4	307.1	301.8	311.8	327.4	353.5
75°	438.5	400.7	337.0	294.9	273.7	253.3	249.4	244.2	254.1	267.6	288.0
77.5°	341.7	311.4	261.9	229.4	212.9	197.8	194.3	188.7	198.6	208.6	224.7
80°	247.2	225.1	195.6	161.3	155.7	145.7	142.3	136.2	145.7	152.2	164.4
82.5°	159.6	144.9	127.9	104.1	103.2	95.8	94.1	87.2	95.8	99.7	108.9
85°	80.7	73.7	69.4	52.9	54.6	49.9	49.4	42.1	49.0	50.7	55.9
87.5°	23.0	24.3	21.7	13.0	16.5	15.6	15.6	11.3	15.6	15.6	17.8
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: P838027

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1861.0	1868.3	1870.1	1869.6	1874.4	1900.4	1891.8	1900.4
5°	1865.3	1881.8	1886.1	1892.2	1900.0	1929.5	1919.9	1930.4
7.5°	1867.9	1892.6	1902.2	1913.9	1926.5	1959.4	1951.6	1962.0
10°	1867.9	1900.0	1913.9	1933.4	1950.3	1988.5	1981.1	1993.2
12.5°	1860.1	1901.3	1920.8	1948.1	1969.8	2011.0	2008.0	2016.7
15°	1844.1	1894.8	1921.7	1956.8	1983.7	2029.7	2028.4	2038.8
17.5°	1822.4	1883.5	1916.0	1960.3	1994.1	2045.7	2048.8	2054.4
20°	1795.0	1862.3	1904.8	1959.0	2001.5	2058.3	2062.2	2070.0
22.5°	1759.1	1836.7	1887.9	1953.3	2002.4	2063.5	2070.4	2077.8
25°	1716.5	1805.9	1865.7	1942.5	1998.0	2063.1	2072.6	2079.1
27.5°	1668.0	1766.0	1837.5	1925.2	1985.9	2056.1	2067.8	2075.6
30°	1611.6	1723.5	1805.5	1902.6	1969.4	2043.1	2055.7	2063.5
32.5°	1553.5	1676.6	1767.3	1873.5	1945.5	2022.3	2033.1	2039.2
35°	1490.2	1619.8	1721.3	1836.2	1914.7	1988.9	1997.1	2003.7
37.5°	1421.2	1558.3	1668.8	1794.2	1871.4	1942.5	1949.9	1957.2
40°	1350.1	1493.6	1609.9	1742.6	1819.8	1885.7	1893.5	1898.7
42.5°	1278.5	1422.1	1547.0	1681.9	1758.6	1821.9	1826.7	1831.9
45°	1206.1	1347.9	1476.3	1614.6	1690.5	1749.9	1751.7	1756.0
47.5°	1132.4	1271.1	1398.7	1537.9	1612.9	1667.1	1668.8	1672.3
50°	1058.2	1194.4	1315.8	1455.0	1528.3	1585.6	1577.8	1581.2
52.5°	985.3	1113.7	1237.8	1365.7	1438.1	1488.9	1491.0	1484.1
55°	913.8	1034.8	1148.8	1272.0	1341.0	1380.4	1379.1	1381.7
57.5°	841.4	955.0	1059.5	1172.3	1239.5	1276.8	1284.6	1275.5
60°	767.6	874.3	968.0	1069.9	1135.0	1166.2	1175.3	1166.6
62.5°	694.3	792.4	877.4	966.3	1026.5	1065.1	1064.3	1054.7
65°	621.0	710.0	785.8	861.3	913.8	952.4	950.7	942.0
67.5°	553.4	626.7	694.8	755.9	801.5	827.9	837.0	826.6
70°	478.8	542.1	602.0	651.0	688.7	712.6	721.2	712.1
72.5°	404.2	458.0	500.0	547.3	576.4	596.3	605.4	596.8
75°	330.5	374.7	409.0	445.8	466.2	483.1	493.5	484.9
77.5°	258.9	293.2	320.5	347.4	370.8	374.7	383.8	378.2
80°	190.8	215.5	235.5	253.3	270.2	271.9	279.3	275.8
82.5°	127.1	143.6	148.8	167.4	178.2	176.5	183.9	181.3
85°	67.2	77.2	86.3	91.9	98.0	92.4	98.9	96.3
87.5°	22.6	23.9	20.8	29.5	32.5	27.8	31.7	30.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)