

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: P838150

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2HI-20-120-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: P838150
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-LD4-2HI-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

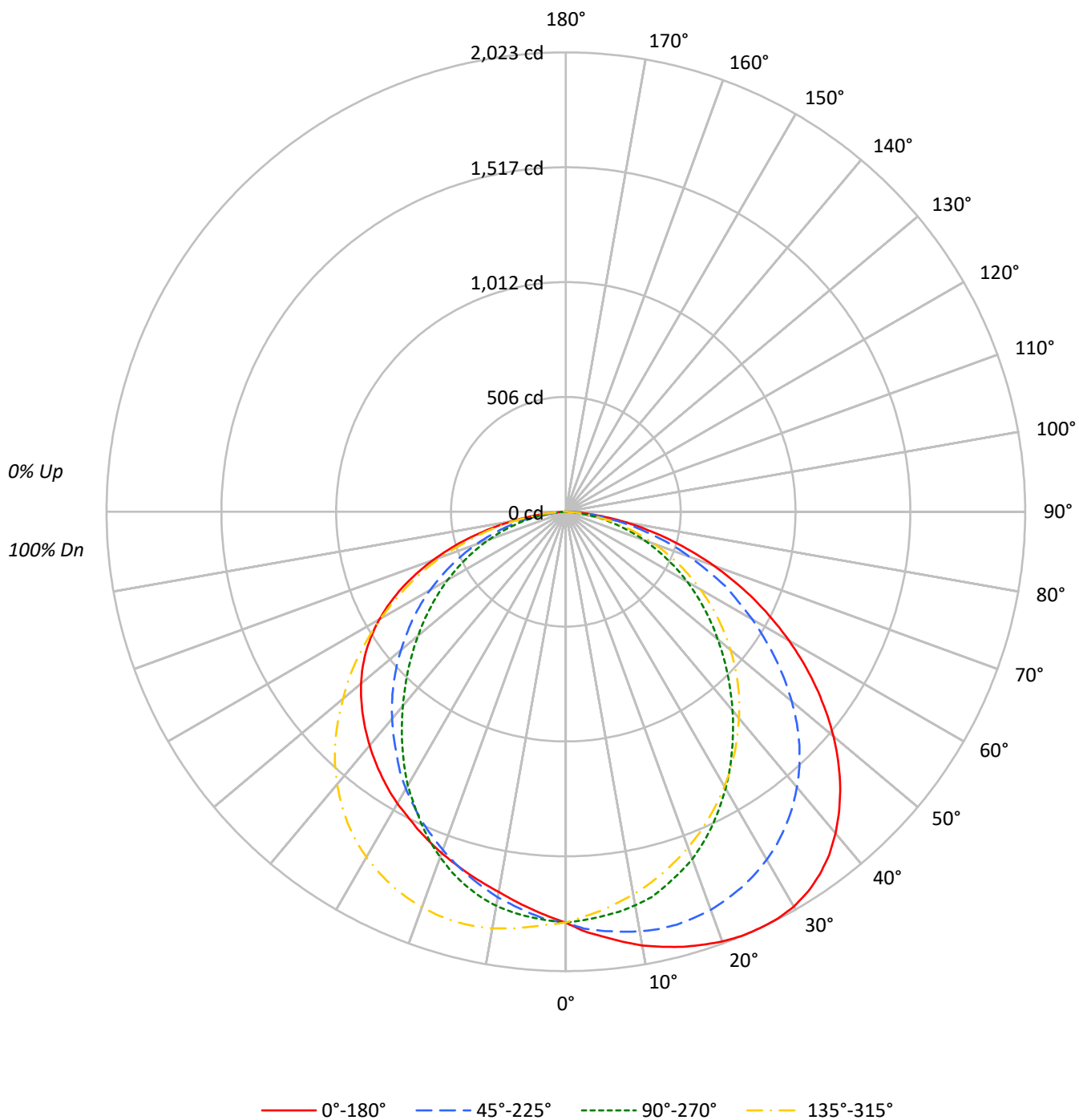
Lumens per Lamp: N/A
Luminaire Lumens: 5307.9 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	2434	2434	2434	2434
5°	2537	2417	2371	2421
10°	2650	2404	2323	2408
15°	2763	2374	2300	2374
20°	2884	2331	2290	2317
25°	3003	2265	2290	2242
30°	3120	2187	2305	2162
35°	3202	2097	2328	2064
40°	3245	2007	2361	1961
45°	3251	1915	2407	1867
50°	3221	1828	2465	1779
55°	3154	1746	2521	1698
60°	3055	1661	2554	1618
65°	2918	1564	2541	1528
70°	2726	1449	2450	1423
75°	2453	1292	2249	1286
80°	2080	1082	1890	1099
85°	1447	716	1200	736

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	3.2
10°-20°	497.4	9.4
20°-30°	762.3	14.4
30°-40°	926.9	17.5
40°-50°	963.6	18.2
50°-60°	870.4	16.4
60°-70°	661.7	12.5
70°-80°	368.9	7.0
80°-90°	84.9	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°	1431.5	27.0
0°-40°	2358.4	44.4
0°-60°	4192.3	79.0
0°-90°	5307.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5307.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1809	1809	1809	1809	1809	
5°	1878	1789	1756	1792	1878	181
15°	1984	1704	1651	1704	1984	563
25°	2023	1526	1542	1510	2023	934
35°	1950	1277	1418	1256	1950	1218
45°	1709	1006	1265	981	1709	1316
55°	1344	744	1074	724	1344	1200
65°	917	491	798	480	917	906
75°	472	249	433	247	472	501
85°	94	46	78	48	94	118
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°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1849.3	1822.3	1822.7	1846.3	1828.2	1837.0	1811.7	1821.4	1818.5	1820.6	1799.9
5°	1878.4	1849.3	1848.8	1869.1	1848.8	1852.6	1820.6	1826.9	1817.6	1811.7	1789.3
7.5°	1909.2	1880.1	1877.1	1894.8	1868.3	1865.3	1829.9	1829.9	1813.0	1798.2	1777.1
10°	1939.6	1909.6	1905.8	1919.3	1886.4	1876.7	1833.7	1826.9	1804.5	1782.6	1759.8
12.5°	1962.4	1932.0	1929.0	1937.5	1900.3	1882.6	1833.7	1820.6	1787.7	1756.8	1739.1
15°	1983.9	1952.7	1944.6	1948.9	1906.2	1882.6	1827.7	1807.5	1765.3	1724.8	1704.1
17.5°	1999.1	1969.1	1961.1	1960.7	1909.2	1875.4	1815.1	1787.2	1736.6	1687.6	1667.0
20°	2014.3	1984.3	1974.2	1966.6	1908.4	1865.7	1796.5	1759.0	1699.9	1645.0	1627.7
22.5°	2021.9	1991.1	1980.1	1968.7	1902.9	1848.0	1773.7	1726.0	1658.5	1593.1	1578.8
25°	2023.1	1991.5	1979.7	1963.2	1891.9	1826.9	1744.2	1686.4	1610.8	1538.2	1526.0
27.5°	2019.8	1985.2	1973.3	1953.5	1875.4	1801.2	1709.2	1641.2	1560.2	1480.0	1466.9
30°	2007.9	1972.9	1961.5	1935.8	1852.2	1769.5	1670.8	1591.0	1504.1	1418.8	1407.4
32.5°	1984.3	1950.1	1940.8	1915.1	1826.9	1732.8	1626.0	1537.0	1442.0	1360.6	1343.7
35°	1949.7	1915.5	1909.6	1882.6	1791.5	1688.9	1577.1	1477.9	1376.2	1293.1	1276.6
37.5°	1904.6	1875.9	1867.0	1840.4	1749.7	1639.1	1520.9	1413.8	1309.1	1219.6	1209.5
40°	1847.6	1820.6	1813.8	1790.2	1701.1	1583.8	1460.2	1347.5	1239.9	1156.7	1142.4
42.5°	1782.6	1757.3	1753.5	1729.0	1641.2	1522.6	1394.3	1278.7	1167.7	1087.5	1073.2
45°	1708.7	1684.3	1683.4	1660.2	1575.8	1454.7	1325.1	1209.1	1097.2	1014.1	1006.5
47.5°	1627.3	1605.3	1605.3	1583.8	1502.8	1380.0	1253.8	1136.5	1026.3	952.9	939.4
50°	1538.7	1518.0	1511.7	1501.1	1422.2	1298.5	1178.7	1065.6	956.3	886.2	873.1
52.5°	1444.1	1426.4	1430.6	1411.2	1334.8	1213.7	1102.7	985.8	885.8	822.1	809.0
55°	1344.5	1319.2	1323.0	1315.8	1243.7	1126.4	1017.5	920.0	816.6	756.7	744.4
57.5°	1241.1	1208.2	1221.7	1217.5	1146.6	1036.9	939.4	845.3	747.8	692.5	680.7
60°	1135.2	1103.6	1117.5	1113.7	1047.0	947.4	858.8	771.4	679.4	629.2	617.4
62.5°	1026.3	997.2	1009.9	1006.9	945.7	855.8	778.6	698.4	610.7	565.5	554.5
65°	916.6	888.8	900.2	898.0	841.5	773.1	696.3	622.9	541.4	502.2	491.2
67.5°	804.4	778.6	789.2	789.2	737.3	671.8	613.6	546.5	473.5	439.7	429.6
70°	692.9	668.9	678.2	677.3	633.4	580.3	530.1	470.1	404.7	376.9	368.4
72.5°	580.7	559.6	568.0	567.2	530.5	496.3	446.5	394.6	337.6	315.2	307.6
75°	471.8	452.0	460.0	459.2	429.2	397.1	363.8	320.7	271.8	256.2	248.6
77.5°	368.0	347.7	354.5	354.5	332.5	309.3	282.8	249.4	214.8	197.9	192.4
80°	268.4	258.7	255.3	255.7	241.0	225.8	212.3	180.2	154.9	143.5	139.7
82.5°	176.4	168.4	165.0	165.9	157.4	148.1	139.7	117.3	100.4	93.7	91.6
85°	93.7	87.8	84.8	86.9	85.2	80.2	76.0	60.8	50.2	47.7	46.4
87.5°	29.5	25.7	23.6	31.2	26.6	23.6	22.8	18.1	13.9	13.9	13.5
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°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1806.6	1806.6	1790.2	1786.4	1784.7	1786.8	1770.4	1767.4	1791.0	1783.0	1764.9
5°	1792.3	1791.5	1768.2	1764.0	1764.0	1761.5	1742.9	1738.7	1762.3	1755.6	1735.7
7.5°	1774.6	1772.0	1744.6	1741.7	1737.4	1735.7	1715.1	1712.1	1732.4	1728.2	1709.6
10°	1753.1	1750.5	1718.0	1715.9	1711.3	1707.9	1688.5	1686.4	1707.1	1700.3	1685.5
12.5°	1724.8	1720.1	1686.8	1684.7	1680.9	1679.6	1660.6	1659.8	1682.6	1675.8	1660.2
15°	1687.6	1683.8	1646.7	1647.5	1648.0	1648.0	1632.8	1631.9	1654.3	1651.3	1634.5
17.5°	1646.7	1641.6	1606.2	1608.7	1611.7	1615.1	1603.2	1605.3	1629.0	1625.2	1610.0
20°	1600.3	1595.2	1560.6	1567.8	1574.1	1580.9	1573.3	1579.2	1601.1	1599.4	1588.0
22.5°	1548.4	1543.3	1511.2	1522.2	1532.8	1545.4	1542.0	1548.8	1572.0	1571.6	1561.5
25°	1485.1	1486.3	1458.1	1471.6	1489.3	1507.0	1508.3	1519.3	1545.0	1542.5	1533.2
27.5°	1426.0	1427.7	1397.7	1420.5	1444.1	1466.9	1472.4	1487.6	1513.8	1511.7	1503.6
30°	1364.0	1366.1	1336.9	1368.2	1396.9	1424.7	1436.5	1457.2	1483.8	1483.8	1475.4
32.5°	1299.4	1303.2	1272.8	1314.6	1347.9	1380.4	1401.1	1422.6	1453.0	1452.2	1445.0
35°	1233.1	1237.3	1209.5	1262.7	1296.0	1335.7	1361.4	1390.1	1417.1	1417.5	1412.1
37.5°	1165.6	1170.7	1145.3	1203.6	1241.6	1288.4	1321.3	1350.0	1380.0	1381.7	1376.6
40°	1098.5	1104.0	1082.0	1138.2	1186.3	1238.6	1276.6	1310.4	1343.3	1344.1	1340.7
42.5°	1031.4	1037.3	1020.9	1075.7	1130.2	1186.3	1231.0	1269.4	1303.2	1305.3	1301.5
45°	966.0	971.1	959.2	1019.2	1071.5	1132.7	1184.2	1227.6	1261.8	1264.8	1263.5
47.5°	901.0	905.6	895.1	950.0	1010.3	1075.3	1134.8	1182.9	1219.2	1222.6	1221.7
50°	837.3	841.1	829.7	887.1	947.0	1016.2	1078.2	1134.0	1174.5	1177.8	1177.4
52.5°	774.0	777.8	768.1	828.4	882.9	955.9	1023.4	1083.7	1123.8	1128.9	1129.7
55°	712.8	714.5	706.9	764.7	817.4	893.8	971.5	1030.1	1070.2	1074.5	1077.0
57.5°	651.6	652.0	645.7	701.0	751.6	829.7	911.1	972.7	1010.7	1014.9	1018.7
60°	590.8	590.4	583.2	636.8	685.4	762.6	847.4	908.6	945.3	949.1	954.2
62.5°	530.5	529.2	522.9	572.3	617.8	694.2	779.5	838.5	873.6	876.1	882.9
65°	470.5	469.3	463.4	509.0	550.3	623.3	706.9	763.0	794.7	798.0	796.8
67.5°	411.5	408.9	404.3	445.2	482.8	550.3	630.5	684.1	710.3	713.2	721.2
70°	352.4	349.4	338.9	382.3	415.3	475.6	550.3	598.0	619.9	622.9	621.6
72.5°	294.1	291.2	279.8	319.9	347.7	400.5	467.2	506.8	525.8	528.4	528.4
75°	237.6	235.9	228.7	259.1	282.3	325.4	381.9	414.8	429.6	432.6	431.7
77.5°	183.2	181.9	174.7	200.9	219.0	251.1	296.7	322.4	333.4	336.8	343.9
80°	131.2	130.8	119.4	145.2	153.2	180.2	213.5	233.4	239.3	243.9	249.0
82.5°	84.0	84.4	73.0	95.0	98.3	115.6	136.3	148.5	152.8	156.6	160.4
85°	40.9	42.6	36.3	50.2	50.6	59.5	68.4	73.0	74.7	77.7	81.0
87.5°	10.6	12.2	6.8	14.3	12.7	16.5	19.0	20.3	19.8	21.9	23.2
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°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1770.8	1784.3	1777.5	1799.5	1807.9	1794.4	1818.0	1818.5	1801.6	1821.4	1832.4
5°	1743.3	1757.3	1753.1	1775.8	1786.4	1774.6	1803.3	1808.8	1792.3	1814.7	1832.4
7.5°	1715.5	1732.0	1726.5	1749.7	1762.3	1753.1	1783.9	1792.7	1780.1	1804.5	1828.2
10°	1691.4	1705.4	1699.5	1723.9	1734.9	1727.3	1757.7	1774.2	1762.3	1792.3	1820.6
12.5°	1667.8	1679.2	1672.4	1692.7	1703.3	1693.5	1730.7	1745.9	1737.4	1768.7	1805.0
15°	1637.4	1650.1	1640.8	1658.9	1667.0	1658.5	1688.9	1715.1	1704.5	1738.7	1778.8
17.5°	1614.2	1621.4	1608.7	1623.1	1627.7	1616.3	1647.1	1672.9	1665.3	1702.4	1748.8
20°	1588.5	1594.4	1576.6	1584.7	1584.2	1569.9	1598.2	1623.5	1618.4	1659.4	1712.1
22.5°	1559.8	1562.7	1542.0	1543.7	1542.9	1519.3	1544.6	1570.3	1568.2	1609.6	1668.6
25°	1529.4	1529.8	1503.2	1502.4	1493.1	1465.2	1487.6	1516.7	1510.4	1555.1	1617.2
27.5°	1499.4	1495.2	1463.1	1455.5	1440.8	1407.4	1427.3	1453.4	1449.6	1493.5	1562.3
30°	1467.3	1461.9	1422.6	1408.7	1387.2	1348.8	1365.2	1389.7	1391.8	1430.2	1502.4
32.5°	1437.0	1423.0	1379.6	1359.3	1332.3	1287.6	1296.4	1321.3	1324.7	1363.5	1437.8
35°	1397.7	1388.4	1334.8	1300.2	1273.6	1224.7	1234.0	1251.3	1256.3	1294.3	1369.9
37.5°	1360.6	1345.8	1288.8	1246.6	1212.4	1161.0	1163.5	1181.2	1186.3	1224.7	1299.4
40°	1322.2	1301.1	1239.9	1190.5	1151.3	1097.2	1094.3	1112.9	1116.7	1154.2	1221.7
42.5°	1281.2	1255.9	1187.1	1133.1	1088.0	1033.1	1027.2	1043.2	1047.4	1084.2	1150.4
45°	1239.9	1209.5	1133.1	1074.0	1024.7	968.5	962.6	974.9	981.2	1015.8	1079.5
47.5°	1196.0	1160.5	1077.4	1011.6	960.5	904.4	897.2	909.4	914.5	948.7	1009.0
50°	1150.0	1106.9	1020.0	947.4	896.8	841.5	830.9	845.3	849.9	882.0	941.1
52.5°	1099.3	1051.7	958.8	882.9	832.2	779.5	766.8	780.7	786.2	817.4	871.9
55°	1045.8	994.3	897.2	823.4	768.5	717.0	706.5	711.9	723.8	753.3	803.9
57.5°	985.4	934.3	832.2	757.1	704.3	655.0	646.1	651.2	662.1	690.8	736.4
60°	921.3	867.2	766.0	690.8	639.8	592.9	584.9	589.6	601.4	627.5	669.7
62.5°	858.0	797.2	697.6	622.9	576.5	533.0	530.9	529.2	540.2	565.5	602.6
65°	781.2	722.9	626.3	555.4	513.2	473.9	465.5	469.3	479.8	503.0	541.9
67.5°	698.9	646.1	553.3	487.8	450.3	415.3	408.1	409.8	420.7	441.0	474.8
70°	611.5	565.1	478.6	419.9	388.3	355.3	350.7	351.1	361.7	379.4	408.9
72.5°	519.9	478.1	403.0	352.8	326.6	303.0	298.8	293.7	303.4	318.6	343.9
75°	426.7	389.9	327.9	287.0	266.3	246.5	242.7	237.6	247.3	260.4	280.2
77.5°	332.5	303.0	254.9	223.2	207.2	192.4	189.1	183.6	193.3	203.0	218.6
80°	240.5	219.0	190.3	157.0	151.5	141.8	138.4	132.5	141.8	148.1	159.9
82.5°	155.3	141.0	124.5	101.3	100.4	93.3	91.6	84.8	93.3	97.1	105.9
85°	78.5	71.7	67.5	51.5	53.2	48.5	48.1	40.9	47.7	49.4	54.4
87.5°	22.4	23.6	21.1	12.7	16.0	15.2	15.2	11.0	15.2	15.2	17.3
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: P838150

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2HI-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1810.9	1818.0	1819.7	1819.3	1824.0	1849.3	1840.8	1849.3
5°	1815.1	1831.1	1835.3	1841.3	1848.8	1877.5	1868.3	1878.4
7.5°	1817.6	1841.7	1851.0	1862.4	1874.6	1906.7	1899.1	1909.2
10°	1817.6	1848.8	1862.4	1881.3	1897.8	1934.9	1927.8	1939.6
12.5°	1810.0	1850.1	1869.1	1895.7	1916.8	1956.9	1953.9	1962.4
15°	1794.4	1843.8	1869.9	1904.1	1930.3	1975.0	1973.8	1983.9
17.5°	1773.3	1832.8	1864.5	1907.5	1940.4	1990.6	1993.6	1999.1
20°	1746.7	1812.1	1853.5	1906.2	1947.6	2002.9	2006.7	2014.3
22.5°	1711.7	1787.2	1837.0	1900.8	1948.4	2007.9	2014.7	2021.9
25°	1670.3	1757.3	1815.5	1890.2	1944.2	2007.5	2016.8	2023.1
27.5°	1623.1	1718.4	1788.1	1873.3	1932.4	2000.8	2012.2	2019.8
30°	1568.2	1677.1	1756.8	1851.4	1916.4	1988.1	2000.4	2007.9
32.5°	1511.7	1631.5	1719.7	1823.1	1893.2	1967.9	1978.4	1984.3
35°	1450.0	1576.2	1675.0	1786.8	1863.2	1935.4	1943.4	1949.7
37.5°	1382.9	1516.3	1623.9	1745.9	1821.0	1890.2	1897.4	1904.6
40°	1313.7	1453.4	1566.5	1695.7	1770.8	1834.9	1842.5	1847.6
42.5°	1244.1	1383.8	1505.3	1636.6	1711.3	1772.9	1777.5	1782.6
45°	1173.6	1311.6	1436.5	1571.2	1645.0	1702.8	1704.5	1708.7
47.5°	1101.9	1236.9	1361.0	1496.5	1569.5	1622.2	1623.9	1627.3
50°	1029.7	1162.2	1280.4	1415.9	1487.2	1542.9	1535.3	1538.7
52.5°	958.8	1083.7	1204.4	1328.9	1399.4	1448.8	1450.9	1444.1
55°	889.2	1006.9	1117.9	1237.8	1304.9	1343.3	1342.0	1344.5
57.5°	818.7	929.3	1031.0	1140.7	1206.1	1242.4	1250.0	1241.1
60°	747.0	850.8	941.9	1041.1	1104.4	1134.8	1143.7	1135.2
62.5°	675.6	771.0	853.7	940.3	998.9	1036.5	1035.6	1026.3
65°	604.3	690.8	764.7	838.1	889.2	926.7	925.1	916.6
67.5°	538.5	609.8	676.1	735.6	779.9	805.6	814.5	804.4
70°	465.9	527.5	585.8	633.4	670.2	693.4	701.8	692.9
72.5°	393.3	445.6	486.6	532.6	560.9	580.3	589.1	580.7
75°	321.6	364.6	398.0	433.8	453.7	470.1	480.3	471.8
77.5°	251.9	285.3	311.9	338.0	360.8	364.6	373.5	368.0
80°	185.7	209.7	229.2	246.5	262.9	264.6	271.8	268.4
82.5°	123.7	139.7	144.8	162.9	173.4	171.8	178.9	176.4
85°	65.4	75.1	84.0	89.5	95.4	89.9	96.2	93.7
87.5°	21.9	23.2	20.3	28.7	31.7	27.0	30.8	29.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)