

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: P837995

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-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: P837995
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-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

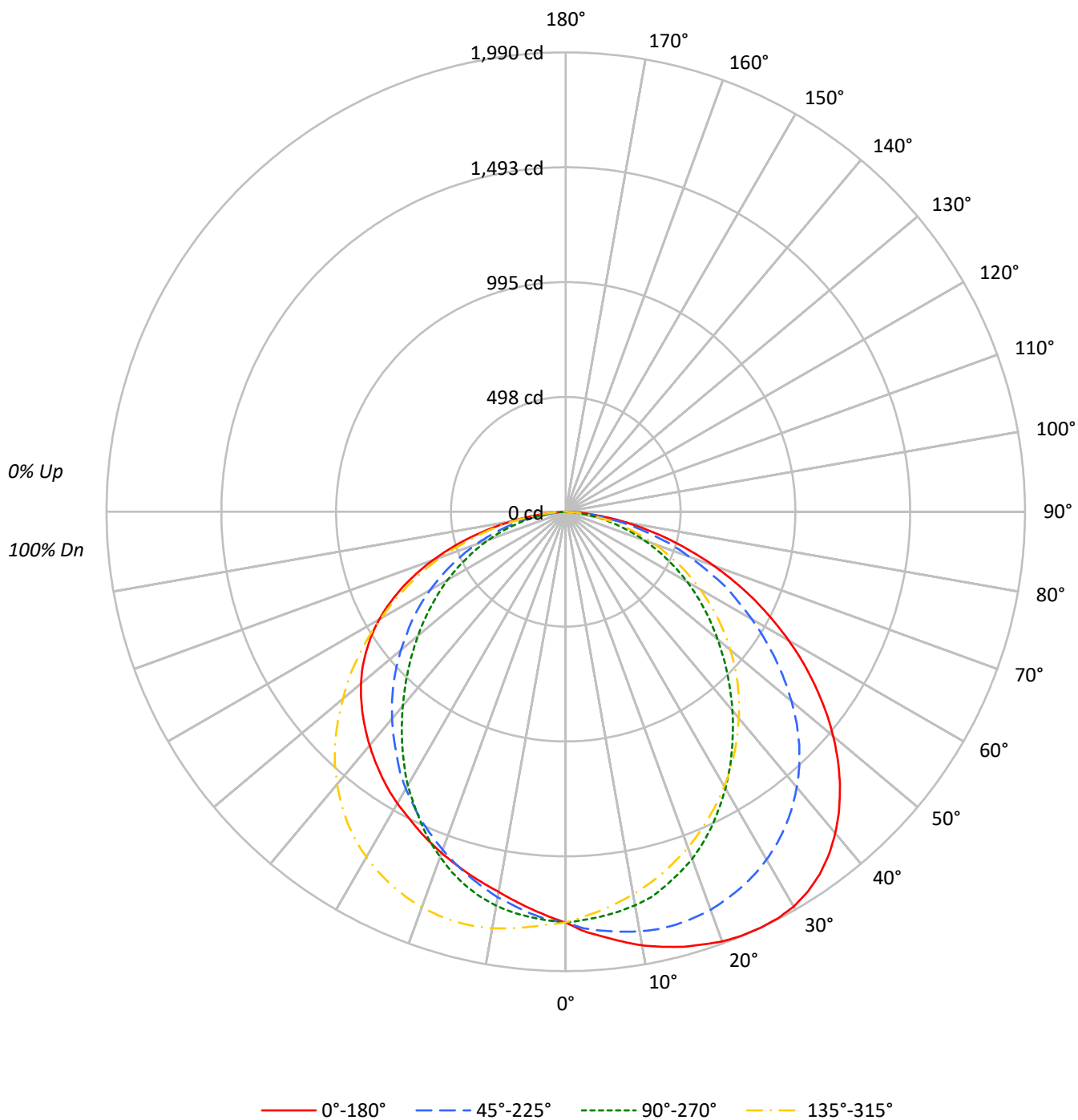
Lumens per Lamp: N/A
Luminaire Lumens: 5220.4 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P837995

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837995

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-EDD-90

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°	4788	4788	4788	4788
5°	4990	4754	4664	4762
10°	5213	4729	4570	4736
15°	5436	4669	4525	4670
20°	5673	4584	4505	4558
25°	5908	4456	4504	4411
30°	6137	4301	4535	4254
35°	6299	4125	4580	4059
40°	6383	3947	4644	3858
45°	6396	3767	4734	3672
50°	6335	3595	4850	3499
55°	6204	3435	4958	3339
60°	6009	3268	5024	3183
65°	5740	3076	4998	3005
70°	5362	2851	4820	2799
75°	4824	2542	4423	2529
80°	4091	2129	3718	2162
85°	2844	1411	2359	1448

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837995

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.2
10°-20°	489.2	9.4
20°-30°	749.7	14.4
30°-40°	911.6	17.5
40°-50°	947.7	18.2
50°-60°	856.0	16.4
60°-70°	650.8	12.5
70°-80°	362.8	7.0
80°-90°	83.5	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°	1407.9	27.0
0°-40°	2319.5	44.4
0°-60°	4123.2	79.0
0°-90°	5220.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5220.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1779	1779	1779	1779	1779	
5°	1847	1760	1727	1763	1847	178
15°	1951	1676	1624	1676	1951	553
25°	1990	1501	1517	1486	1990	919
35°	1918	1256	1394	1236	1918	1198
45°	1681	990	1244	965	1681	1294
55°	1322	732	1057	712	1322	1180
65°	902	483	785	472	902	891
75°	464	244	425	243	464	493
85°	92	46	76	47	92	116
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837995

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4
2.5°	1818.8	1792.2	1792.6	1815.9	1798.0	1806.8	1781.9	1791.4	1788.5	1790.6	1770.2
5°	1847.4	1818.8	1818.4	1838.3	1818.4	1822.1	1790.6	1796.8	1787.7	1781.9	1759.9
7.5°	1877.7	1849.1	1846.2	1863.6	1837.5	1834.6	1799.7	1799.7	1783.1	1768.6	1747.8
10°	1907.6	1878.1	1874.4	1887.7	1855.3	1845.8	1803.4	1796.8	1774.8	1753.2	1730.8
12.5°	1930.0	1900.1	1897.2	1905.5	1869.0	1851.6	1803.4	1790.6	1758.2	1727.9	1710.5
15°	1951.2	1920.5	1912.6	1916.7	1874.8	1851.6	1797.6	1777.7	1736.2	1696.4	1676.0
17.5°	1966.1	1936.7	1928.8	1928.4	1877.7	1844.5	1785.2	1757.8	1708.0	1659.8	1639.5
20°	1981.1	1951.6	1941.7	1934.2	1876.9	1835.0	1766.9	1730.0	1671.9	1617.9	1600.9
22.5°	1988.6	1958.3	1947.5	1936.3	1871.5	1817.5	1744.5	1697.6	1631.2	1566.9	1552.7
25°	1989.8	1958.7	1947.0	1930.9	1860.7	1796.8	1715.4	1658.6	1584.3	1512.9	1500.9
27.5°	1986.5	1952.4	1940.8	1921.3	1844.5	1771.5	1681.0	1614.2	1534.5	1455.6	1442.8
30°	1974.9	1940.4	1929.2	1903.9	1821.7	1740.3	1643.2	1564.8	1479.3	1395.4	1384.2
32.5°	1951.6	1918.0	1908.9	1883.5	1796.8	1704.2	1599.2	1511.7	1418.3	1338.2	1321.6
35°	1917.6	1884.0	1878.1	1851.6	1761.9	1661.1	1551.1	1453.5	1353.5	1271.7	1255.6
37.5°	1873.2	1844.9	1836.2	1810.1	1720.8	1612.1	1495.9	1390.5	1287.5	1199.5	1189.6
40°	1817.1	1790.6	1783.9	1760.7	1673.1	1557.7	1436.1	1325.3	1219.4	1137.7	1123.6
42.5°	1753.2	1728.3	1724.6	1700.5	1614.2	1497.5	1371.4	1257.6	1148.5	1069.6	1055.5
45°	1680.6	1656.5	1655.7	1632.8	1549.8	1430.7	1303.3	1189.1	1079.2	997.4	989.9
47.5°	1600.5	1578.9	1578.9	1557.7	1478.0	1357.2	1233.1	1117.8	1009.4	937.2	923.9
50°	1513.3	1493.0	1486.7	1476.4	1398.8	1277.1	1159.3	1048.0	940.5	871.6	858.8
52.5°	1420.3	1402.9	1407.1	1388.0	1312.8	1193.7	1084.6	969.6	871.2	808.5	795.7
55°	1322.4	1297.5	1301.2	1294.2	1223.2	1107.8	1000.7	904.8	803.1	744.2	732.2
57.5°	1220.7	1188.3	1201.6	1197.4	1127.7	1019.8	923.9	831.4	735.5	681.1	669.5
60°	1116.5	1085.4	1099.1	1095.3	1029.8	931.8	844.6	758.7	668.2	618.9	607.2
62.5°	1009.4	980.8	993.2	990.3	930.2	841.7	765.8	686.9	600.6	556.2	545.4
65°	901.5	874.1	885.3	883.2	827.6	760.4	684.8	612.6	532.5	493.9	483.1
67.5°	791.1	765.8	776.2	776.2	725.1	660.8	603.5	537.5	465.7	432.5	422.5
70°	681.5	657.9	667.0	666.2	623.0	570.7	521.3	462.4	398.0	370.6	362.3
72.5°	571.1	550.4	558.7	557.8	521.7	488.1	439.1	388.1	332.0	310.1	302.6
75°	464.0	444.5	452.4	451.6	422.1	390.6	357.8	315.4	267.3	251.9	244.5
77.5°	361.9	342.0	348.7	348.7	327.1	304.2	278.1	245.3	211.3	194.7	189.3
80°	264.0	254.4	251.1	251.5	237.0	222.1	208.8	177.2	152.3	141.1	137.4
82.5°	173.5	165.6	162.3	163.1	154.8	145.7	137.4	115.4	98.8	92.1	90.1
85°	92.1	86.3	83.4	85.5	83.8	78.9	74.7	59.8	49.4	46.9	45.7
87.5°	29.1	25.3	23.2	30.7	26.1	23.2	22.4	17.8	13.7	13.7	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837995

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4
2.5°	1776.9	1776.9	1760.7	1757.0	1755.3	1757.4	1741.2	1738.3	1761.5	1753.6	1735.8
5°	1762.8	1761.9	1739.1	1735.0	1735.0	1732.5	1714.2	1710.0	1733.3	1726.7	1707.1
7.5°	1745.3	1742.8	1715.9	1713.0	1708.8	1707.1	1686.8	1683.9	1703.8	1699.7	1681.4
10°	1724.2	1721.7	1689.7	1687.6	1683.1	1679.7	1660.7	1658.6	1678.9	1672.3	1657.8
12.5°	1696.4	1691.8	1659.0	1656.9	1653.2	1651.9	1633.3	1632.4	1654.8	1648.2	1632.8
15°	1659.8	1656.1	1619.6	1620.4	1620.8	1620.8	1605.9	1605.0	1627.0	1624.1	1607.5
17.5°	1619.6	1614.6	1579.7	1582.2	1585.1	1588.4	1576.8	1578.9	1602.1	1598.4	1583.5
20°	1573.9	1568.9	1534.9	1541.9	1548.2	1554.8	1547.3	1553.2	1574.7	1573.1	1561.9
22.5°	1522.9	1517.9	1486.3	1497.1	1507.5	1520.0	1516.6	1523.3	1546.1	1545.7	1535.7
25°	1460.6	1461.8	1434.0	1447.3	1464.7	1482.2	1483.4	1494.2	1519.5	1517.0	1507.9
27.5°	1402.5	1404.1	1374.7	1397.1	1420.3	1442.8	1448.1	1463.1	1488.8	1486.7	1478.9
30°	1341.5	1343.6	1314.9	1345.6	1373.9	1401.2	1412.9	1433.2	1459.4	1459.4	1451.1
32.5°	1278.0	1281.7	1251.8	1292.9	1325.7	1357.7	1378.0	1399.2	1429.1	1428.2	1421.2
35°	1212.8	1217.0	1189.6	1241.9	1274.7	1313.7	1339.0	1367.2	1393.8	1394.2	1388.8
37.5°	1146.4	1151.4	1126.5	1183.8	1221.1	1267.2	1299.6	1327.8	1357.2	1358.9	1353.9
40°	1080.4	1085.8	1064.2	1119.4	1166.7	1218.2	1255.6	1288.8	1321.1	1322.0	1318.6
42.5°	1014.4	1020.2	1004.0	1058.0	1111.5	1166.7	1210.7	1248.5	1281.7	1283.8	1280.0
45°	950.1	955.1	943.4	1002.4	1053.8	1114.0	1164.7	1207.4	1241.0	1243.9	1242.7
47.5°	886.2	890.7	880.3	934.3	993.7	1057.6	1116.1	1163.4	1199.1	1202.4	1201.6
50°	823.5	827.2	816.0	872.5	931.4	999.5	1060.5	1115.3	1155.1	1158.4	1158.0
52.5°	761.2	765.0	755.4	814.8	868.3	940.1	1006.5	1065.9	1105.3	1110.3	1111.1
55°	701.0	702.7	695.2	752.1	804.0	879.1	955.5	1013.2	1052.6	1056.7	1059.2
57.5°	640.9	641.3	635.0	689.4	739.2	816.0	896.1	956.7	994.1	998.2	1002.0
60°	581.1	580.7	573.6	626.3	674.1	750.0	833.4	893.6	929.7	933.5	938.5
62.5°	521.7	520.5	514.3	562.8	607.6	682.8	766.6	824.7	859.2	861.7	868.3
65°	462.8	461.5	455.7	500.6	541.2	613.0	695.2	750.4	781.6	784.9	783.6
67.5°	404.7	402.2	397.6	437.9	474.8	541.2	620.1	672.8	698.5	701.5	709.3
70°	346.6	343.7	333.3	376.0	408.4	467.8	541.2	588.1	609.7	612.6	611.4
72.5°	289.3	286.4	275.2	314.6	342.0	393.9	459.5	498.5	517.2	519.7	519.7
75°	233.7	232.0	225.0	254.8	277.7	320.0	375.6	408.0	422.5	425.4	424.6
77.5°	180.1	178.9	171.8	197.6	215.4	247.0	291.8	317.1	327.9	331.2	338.3
80°	129.1	128.7	117.5	142.8	150.7	177.2	210.0	229.5	235.3	239.9	244.9
82.5°	82.6	83.0	71.8	93.4	96.7	113.7	134.1	146.1	150.3	154.0	157.7
85°	40.3	41.9	35.7	49.4	49.8	58.5	67.2	71.8	73.5	76.4	79.7
87.5°	10.4	12.0	6.6	14.1	12.5	16.2	18.7	19.9	19.5	21.6	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837995

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4
2.5°	1741.6	1754.9	1748.2	1769.8	1778.1	1764.8	1788.1	1788.5	1771.9	1791.4	1802.2
5°	1714.6	1728.3	1724.2	1746.6	1757.0	1745.3	1773.6	1778.9	1762.8	1784.8	1802.2
7.5°	1687.2	1703.4	1698.0	1720.8	1733.3	1724.2	1754.5	1763.2	1750.7	1774.8	1798.0
10°	1663.6	1677.3	1671.4	1695.5	1706.3	1698.8	1728.7	1744.9	1733.3	1762.8	1790.6
12.5°	1640.3	1651.5	1644.9	1664.8	1675.2	1665.6	1702.2	1717.1	1708.8	1739.5	1775.2
15°	1610.4	1622.9	1613.8	1631.6	1639.5	1631.2	1661.1	1686.8	1676.4	1710.0	1749.5
17.5°	1587.6	1594.7	1582.2	1596.3	1600.9	1589.7	1620.0	1645.3	1637.8	1674.4	1720.0
20°	1562.3	1568.1	1550.7	1558.6	1558.1	1544.0	1571.8	1596.7	1591.8	1632.0	1683.9
22.5°	1534.1	1537.0	1516.6	1518.3	1517.5	1494.2	1519.1	1544.4	1542.4	1583.0	1641.1
25°	1504.2	1504.6	1478.4	1477.6	1468.5	1441.1	1463.1	1491.7	1485.5	1529.5	1590.5
27.5°	1474.7	1470.6	1439.0	1431.5	1417.0	1384.2	1403.7	1429.5	1425.7	1468.9	1536.6
30°	1443.2	1437.8	1399.2	1385.5	1364.3	1326.5	1342.7	1366.8	1368.9	1406.6	1477.6
32.5°	1413.3	1399.6	1356.8	1336.9	1310.3	1266.3	1275.1	1299.6	1302.9	1341.1	1414.1
35°	1374.7	1365.5	1312.8	1278.8	1252.7	1204.5	1213.6	1230.7	1235.6	1273.0	1347.3
37.5°	1338.2	1323.6	1267.6	1226.1	1192.5	1141.8	1144.3	1161.8	1166.7	1204.5	1278.0
40°	1300.4	1279.6	1219.4	1170.9	1132.3	1079.2	1076.3	1094.5	1098.3	1135.2	1201.6
42.5°	1260.1	1235.2	1167.6	1114.4	1070.0	1016.1	1010.3	1026.0	1030.2	1066.3	1131.5
45°	1219.4	1189.6	1114.4	1056.3	1007.8	952.6	946.8	958.8	965.0	999.1	1061.7
47.5°	1176.3	1141.4	1059.6	994.9	944.7	889.5	882.4	894.5	899.4	933.1	992.4
50°	1131.0	1088.7	1003.2	931.8	882.0	827.6	817.3	831.4	835.9	867.5	925.6
52.5°	1081.2	1034.3	943.0	868.3	818.5	766.6	754.2	767.9	773.3	804.0	857.5
55°	1028.5	977.9	882.4	809.8	755.8	705.2	694.8	700.2	711.8	740.9	790.7
57.5°	969.2	918.9	818.5	744.6	692.7	644.2	635.5	640.4	651.2	679.5	724.3
60°	906.1	852.9	753.3	679.5	629.2	583.2	575.3	579.8	591.5	617.2	658.7
62.5°	843.8	784.0	686.1	612.6	567.0	524.2	522.1	520.5	531.3	556.2	592.7
65°	768.3	711.0	615.9	546.2	504.7	466.1	457.8	461.5	471.9	494.8	532.9
67.5°	687.3	635.5	544.1	479.8	442.9	408.4	401.4	403.0	413.8	433.7	466.9
70°	601.4	555.8	470.7	413.0	381.9	349.5	344.9	345.3	355.7	373.1	402.2
72.5°	511.4	470.3	396.4	347.0	321.3	298.0	293.9	288.9	298.4	313.4	338.3
75°	419.6	383.5	322.5	282.2	261.9	242.4	238.7	233.7	243.2	256.1	275.6
77.5°	327.1	298.0	250.7	219.6	203.8	189.3	185.9	180.6	190.1	199.6	215.0
80°	236.6	215.4	187.2	154.4	149.0	139.5	136.1	130.3	139.5	145.7	157.3
82.5°	152.7	138.6	122.4	99.6	98.8	91.7	90.1	83.4	91.7	95.5	104.2
85°	77.2	70.6	66.4	50.6	52.3	47.7	47.3	40.3	46.9	48.6	53.5
87.5°	22.0	23.2	20.8	12.5	15.8	14.9	14.9	10.8	14.9	14.9	17.0
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: P837995

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4	1779.4
2.5°	1781.0	1788.1	1789.7	1789.3	1793.9	1818.8	1810.5	1818.8
5°	1785.2	1800.9	1805.1	1810.9	1818.4	1846.6	1837.5	1847.4
7.5°	1787.7	1811.3	1820.5	1831.7	1843.7	1875.2	1867.8	1877.7
10°	1787.7	1818.4	1831.7	1850.3	1866.5	1903.1	1896.0	1907.6
12.5°	1780.2	1819.6	1838.3	1864.5	1885.2	1924.6	1921.7	1930.0
15°	1764.8	1813.4	1839.1	1872.8	1898.5	1942.5	1941.2	1951.2
17.5°	1744.1	1802.6	1833.7	1876.1	1908.4	1957.8	1960.7	1966.1
20°	1717.9	1782.3	1822.9	1874.8	1915.5	1969.9	1973.6	1981.1
22.5°	1683.5	1757.8	1806.8	1869.4	1916.3	1974.9	1981.5	1988.6
25°	1642.8	1728.3	1785.6	1859.1	1912.2	1974.4	1983.6	1989.8
27.5°	1596.3	1690.1	1758.6	1842.5	1900.6	1967.8	1979.0	1986.5
30°	1542.4	1649.5	1727.9	1820.9	1884.8	1955.4	1967.4	1974.9
32.5°	1486.7	1604.6	1691.4	1793.1	1862.0	1935.4	1945.8	1951.6
35°	1426.1	1550.3	1647.4	1757.4	1832.5	1903.5	1911.4	1917.6
37.5°	1360.2	1491.3	1597.2	1717.1	1791.0	1859.1	1866.1	1873.2
40°	1292.1	1429.5	1540.7	1667.7	1741.6	1804.7	1812.2	1817.1
42.5°	1223.6	1361.0	1480.5	1609.6	1683.1	1743.7	1748.2	1753.2
45°	1154.3	1290.0	1412.9	1545.3	1617.9	1674.8	1676.4	1680.6
47.5°	1083.7	1216.5	1338.6	1471.8	1543.6	1595.5	1597.2	1600.5
50°	1012.7	1143.1	1259.3	1392.5	1462.7	1517.5	1510.0	1513.3
52.5°	943.0	1065.9	1184.6	1307.0	1376.3	1424.9	1427.0	1420.3
55°	874.5	990.3	1099.5	1217.4	1283.4	1321.1	1319.9	1322.4
57.5°	805.2	914.0	1014.0	1121.9	1186.2	1221.9	1229.4	1220.7
60°	734.7	836.8	926.4	1024.0	1086.2	1116.1	1124.8	1116.5
62.5°	664.5	758.3	839.7	924.8	982.4	1019.4	1018.6	1009.4
65°	594.4	679.5	752.1	824.3	874.5	911.5	909.8	901.5
67.5°	529.6	599.8	664.9	723.5	767.0	792.4	801.1	791.1
70°	458.2	518.8	576.1	623.0	659.1	681.9	690.2	681.5
72.5°	386.8	438.3	478.6	523.8	551.6	570.7	579.4	571.1
75°	316.3	358.6	391.4	426.7	446.2	462.4	472.3	464.0
77.5°	247.8	280.6	306.7	332.5	354.9	358.6	367.3	361.9
80°	182.6	206.3	225.4	242.4	258.6	260.2	267.3	264.0
82.5°	121.6	137.4	142.4	160.2	170.6	168.9	176.0	173.5
85°	64.3	73.9	82.6	88.0	93.8	88.4	94.6	92.1
87.5°	21.6	22.8	19.9	28.2	31.1	26.6	30.3	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)