

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: P838151

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838151
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-LD4-3LO-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

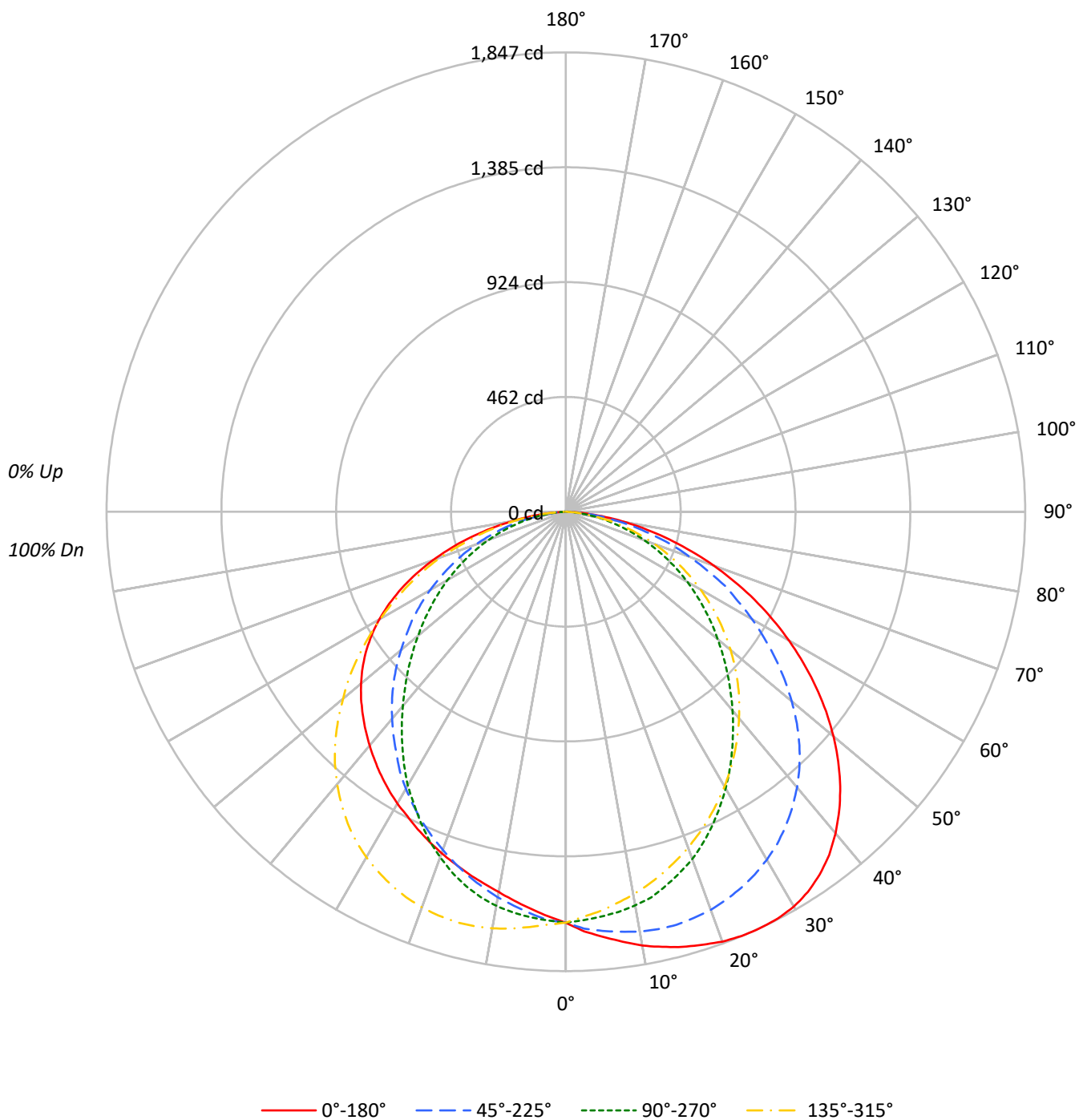
Lumens per Lamp: N/A
Luminaire Lumens: 4846.8 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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: P838151

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838151

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-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°	2223	2223	2223	2223
5°	2317	2207	2165	2210
10°	2420	2195	2121	2199
15°	2523	2168	2100	2168
20°	2634	2128	2091	2116
25°	2743	2069	2091	2048
30°	2849	1997	2105	1975
35°	2924	1915	2126	1884
40°	2963	1832	2156	1791
45°	2969	1749	2198	1705
50°	2941	1669	2251	1625
55°	2880	1595	2301	1550
60°	2789	1517	2332	1478
65°	2665	1428	2320	1395
70°	2489	1323	2238	1299
75°	2240	1180	2053	1174
80°	1899	989	1726	1003
85°	1320	655	1095	672

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838151

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	3.2
10°-20°	454.2	9.4
20°-30°	696.1	14.4
30°-40°	846.4	17.5
40°-50°	879.9	18.2
50°-60°	794.8	16.4
60°-70°	604.2	12.5
70°-80°	336.9	7.0
80°-90°	77.6	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°	1307.1	27.0
0°-40°	2153.5	44.4
0°-60°	3828.1	79.0
0°-90°	4846.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4846.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1652	1652	1652	1652	1652	
5°	1715	1634	1603	1637	1715	165
15°	1812	1556	1508	1556	1812	514
25°	1847	1393	1408	1379	1847	853
35°	1780	1166	1294	1147	1780	1112
45°	1560	919	1155	896	1560	1201
55°	1228	680	981	661	1228	1096
65°	837	449	729	438	837	827
75°	431	227	395	226	431	458
85°	86	42	71	44	86	108
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838151

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0
2.5°	1688.6	1664.0	1664.3	1685.9	1669.4	1677.4	1654.3	1663.2	1660.5	1662.4	1643.5
5°	1715.2	1688.6	1688.2	1706.7	1688.2	1691.7	1662.4	1668.2	1659.7	1654.3	1633.9
7.5°	1743.3	1716.8	1714.1	1730.2	1706.0	1703.3	1670.9	1670.9	1655.5	1642.0	1622.7
10°	1771.1	1743.7	1740.3	1752.6	1722.5	1713.7	1674.4	1668.2	1647.8	1627.7	1606.9
12.5°	1791.9	1764.2	1761.5	1769.2	1735.2	1719.1	1674.4	1662.4	1632.4	1604.2	1588.0
15°	1811.5	1783.0	1775.7	1779.6	1740.6	1719.1	1669.0	1650.5	1611.9	1574.9	1556.1
17.5°	1825.4	1798.1	1790.7	1790.4	1743.3	1712.5	1657.4	1632.0	1585.7	1541.0	1522.1
20°	1839.3	1811.9	1802.7	1795.7	1742.6	1703.6	1640.5	1606.2	1552.2	1502.1	1486.3
22.5°	1846.2	1818.1	1808.1	1797.7	1737.6	1687.5	1619.6	1576.1	1514.4	1454.7	1441.6
25°	1847.4	1818.5	1807.7	1792.7	1727.5	1668.2	1592.7	1539.9	1470.9	1404.6	1393.4
27.5°	1844.3	1812.7	1801.9	1783.8	1712.5	1644.7	1560.7	1498.6	1424.7	1351.4	1339.5
30°	1833.5	1801.5	1791.1	1767.6	1691.3	1615.8	1525.6	1452.8	1373.4	1295.6	1285.2
32.5°	1811.9	1780.7	1772.2	1748.7	1668.2	1582.3	1484.8	1403.5	1316.8	1242.4	1227.0
35°	1780.3	1749.1	1743.7	1719.1	1635.8	1542.2	1440.1	1349.5	1256.6	1180.7	1165.7
37.5°	1739.1	1712.9	1704.8	1680.5	1597.7	1496.7	1388.8	1290.9	1195.4	1113.7	1104.4
40°	1687.1	1662.4	1656.3	1634.7	1553.4	1446.2	1333.3	1230.4	1132.2	1056.3	1043.2
42.5°	1627.7	1604.6	1601.1	1578.8	1498.6	1390.4	1273.2	1167.6	1066.3	993.1	980.0
45°	1560.3	1537.9	1537.2	1516.0	1438.9	1328.3	1210.0	1104.0	1001.9	926.0	919.1
47.5°	1485.9	1465.9	1465.9	1446.2	1372.2	1260.1	1144.9	1037.8	937.2	870.1	857.8
50°	1405.0	1386.1	1380.3	1370.7	1298.6	1185.7	1076.3	973.0	873.2	809.2	797.3
52.5°	1318.7	1302.5	1306.3	1288.6	1218.9	1108.3	1006.9	900.2	808.9	750.7	738.7
55°	1227.7	1204.6	1208.1	1201.5	1135.6	1028.5	929.1	840.1	745.7	690.9	679.8
57.5°	1133.3	1103.3	1115.6	1111.7	1047.0	946.8	857.8	771.9	682.8	632.4	621.6
60°	1036.6	1007.7	1020.4	1016.9	956.1	865.1	784.2	704.4	620.4	574.6	563.8
62.5°	937.2	910.6	922.2	919.5	863.6	781.5	711.0	637.8	557.6	516.4	506.4
65°	837.0	811.6	822.0	820.0	768.4	706.0	635.8	568.8	494.4	458.6	448.6
67.5°	734.5	711.0	720.6	720.6	673.2	613.5	560.3	499.0	432.4	401.5	392.3
70°	632.8	610.8	619.3	618.5	578.4	529.9	484.0	429.3	369.6	344.1	336.4
72.5°	530.2	511.0	518.7	517.9	484.4	453.2	407.7	360.3	308.3	287.9	280.9
75°	430.8	412.7	420.0	419.3	391.9	362.6	332.2	292.9	248.2	233.9	227.0
77.5°	336.0	317.5	323.7	323.7	303.7	282.5	258.2	227.7	196.1	180.7	175.7
80°	245.1	236.2	233.1	233.5	220.0	206.2	193.8	164.5	141.4	131.0	127.6
82.5°	161.1	153.8	150.7	151.4	143.7	135.3	127.6	107.1	91.7	85.5	83.6
85°	85.5	80.2	77.5	79.4	77.8	73.2	69.4	55.5	45.9	43.5	42.4
87.5°	27.0	23.5	21.6	28.5	24.3	21.6	20.8	16.6	12.7	12.7	12.3
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: P838151

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0
2.5°	1649.7	1649.7	1634.7	1631.2	1629.7	1631.6	1616.6	1613.9	1635.4	1628.1	1611.6
5°	1636.6	1635.8	1614.6	1610.8	1610.8	1608.5	1591.5	1587.7	1609.2	1603.1	1585.0
7.5°	1620.4	1618.1	1593.1	1590.4	1586.5	1585.0	1566.1	1563.4	1581.9	1578.0	1561.1
10°	1600.8	1598.4	1568.8	1566.8	1562.6	1559.5	1541.8	1539.9	1558.8	1552.6	1539.1
12.5°	1574.9	1570.7	1540.3	1538.3	1534.9	1533.7	1516.4	1515.6	1536.4	1530.2	1516.0
15°	1541.0	1537.6	1503.7	1504.4	1504.8	1504.8	1490.9	1490.2	1510.6	1507.9	1492.5
17.5°	1503.7	1499.0	1466.7	1469.0	1471.7	1474.7	1464.0	1465.9	1487.5	1484.0	1470.1
20°	1461.3	1456.6	1425.0	1431.6	1437.4	1443.5	1436.6	1442.0	1462.0	1460.5	1450.1
22.5°	1413.9	1409.2	1380.0	1390.0	1399.6	1411.2	1408.1	1414.2	1435.4	1435.1	1425.8
25°	1356.1	1357.2	1331.4	1343.7	1359.9	1376.1	1377.3	1387.3	1410.8	1408.5	1400.0
27.5°	1302.1	1303.7	1276.3	1297.1	1318.7	1339.5	1344.5	1358.4	1382.3	1380.3	1373.0
30°	1245.5	1247.4	1220.8	1249.3	1275.5	1301.0	1311.7	1330.6	1354.9	1354.9	1347.2
32.5°	1186.5	1190.0	1162.2	1200.4	1230.8	1260.5	1279.4	1299.0	1326.8	1326.0	1319.5
35°	1126.0	1129.9	1104.4	1153.0	1183.4	1219.6	1243.2	1269.4	1294.0	1294.4	1289.4
37.5°	1064.3	1069.0	1045.9	1099.0	1133.7	1176.5	1206.5	1232.7	1260.1	1261.6	1257.0
40°	1003.1	1008.1	988.0	1039.3	1083.2	1131.0	1165.7	1196.5	1226.6	1227.4	1224.3
42.5°	941.8	947.2	932.2	982.3	1032.0	1083.2	1124.1	1159.1	1190.0	1191.9	1188.4
45°	882.1	886.7	875.9	930.6	978.4	1034.3	1081.3	1121.0	1152.2	1154.9	1153.7
47.5°	822.7	827.0	817.3	867.4	922.5	981.9	1036.2	1080.1	1113.3	1116.4	1115.6
50°	764.5	768.0	757.6	810.0	864.7	927.9	984.6	1035.4	1072.4	1075.5	1075.1
52.5°	706.7	710.2	701.3	756.4	806.2	872.8	934.5	989.6	1026.2	1030.8	1031.6
55°	650.9	652.4	645.5	698.3	746.4	816.2	887.1	940.6	977.3	981.1	983.4
57.5°	595.0	595.4	589.6	640.1	686.3	757.6	832.0	888.2	922.9	926.8	930.2
60°	539.5	539.1	532.6	581.5	625.8	696.3	773.8	829.7	863.2	866.7	871.3
62.5°	484.4	483.2	477.5	522.5	564.2	633.9	711.7	765.7	797.7	800.0	806.2
65°	429.7	428.5	423.1	464.7	502.5	569.2	645.5	696.7	725.6	728.7	727.5
67.5°	375.7	373.4	369.2	406.5	440.8	502.5	575.7	624.7	648.6	651.2	658.6
70°	321.8	319.1	309.4	349.1	379.2	434.3	502.5	546.0	566.1	568.8	567.6
72.5°	268.6	265.9	255.5	292.1	317.5	365.7	426.6	462.8	480.2	482.5	482.5
75°	217.0	215.4	208.9	236.6	257.8	297.1	348.7	378.8	392.3	395.0	394.2
77.5°	167.2	166.1	159.5	183.4	200.0	229.3	270.9	294.4	304.4	307.5	314.1
80°	119.8	119.5	109.1	132.6	139.9	164.5	195.0	213.1	218.5	222.7	227.4
82.5°	76.7	77.1	66.7	86.7	89.8	105.6	124.5	135.6	139.5	143.0	146.4
85°	37.4	38.9	33.1	45.9	46.2	54.3	62.4	66.7	68.2	70.9	74.0
87.5°	9.6	11.2	6.2	13.1	11.6	15.0	17.3	18.5	18.1	20.0	21.2
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: P838151

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0
2.5°	1616.9	1629.3	1623.1	1643.1	1650.9	1638.5	1660.1	1660.5	1645.1	1663.2	1673.2
5°	1591.9	1604.6	1600.8	1621.6	1631.2	1620.4	1646.6	1651.6	1636.6	1657.0	1673.2
7.5°	1566.5	1581.5	1576.5	1597.7	1609.2	1600.8	1628.9	1637.0	1625.4	1647.8	1669.4
10°	1544.5	1557.2	1551.8	1574.2	1584.2	1577.3	1605.0	1620.0	1609.2	1636.6	1662.4
12.5°	1522.9	1533.3	1527.2	1545.7	1555.3	1546.4	1580.3	1594.2	1586.5	1615.0	1648.2
15°	1495.2	1506.7	1498.3	1514.8	1522.1	1514.4	1542.2	1566.1	1556.4	1587.7	1624.3
17.5°	1474.0	1480.5	1469.0	1482.1	1486.3	1475.9	1504.0	1527.5	1520.6	1554.5	1596.9
20°	1450.5	1455.9	1439.7	1447.0	1446.6	1433.5	1459.3	1482.5	1477.8	1515.2	1563.4
22.5°	1424.3	1427.0	1408.1	1409.6	1408.9	1387.3	1410.4	1433.9	1432.0	1469.7	1523.7
25°	1396.5	1396.9	1372.6	1371.9	1363.4	1337.9	1358.4	1385.0	1379.2	1420.0	1476.7
27.5°	1369.2	1365.3	1336.0	1329.1	1315.6	1285.2	1303.3	1327.2	1323.7	1363.8	1426.6
30°	1339.9	1334.9	1299.0	1286.3	1266.7	1231.6	1246.6	1269.0	1270.9	1306.0	1371.9
32.5°	1312.1	1299.4	1259.7	1241.2	1216.6	1175.7	1183.8	1206.5	1209.6	1245.1	1312.9
35°	1276.3	1267.8	1218.9	1187.3	1163.0	1118.3	1126.8	1142.6	1147.2	1181.9	1250.9
37.5°	1242.4	1228.9	1176.9	1138.3	1107.1	1060.1	1062.4	1078.6	1083.2	1118.3	1186.5
40°	1207.3	1188.0	1132.2	1087.1	1051.2	1001.9	999.2	1016.2	1019.6	1053.9	1115.6
42.5°	1169.9	1146.8	1084.0	1034.7	993.4	943.3	938.0	952.6	956.4	990.0	1050.5
45°	1132.2	1104.4	1034.7	980.7	935.6	884.4	879.0	890.2	895.9	927.5	985.7
47.5°	1092.1	1059.7	983.8	923.7	877.1	825.8	819.3	830.4	835.1	866.3	921.4
50°	1050.1	1010.8	931.4	865.1	818.9	768.4	758.8	771.9	776.1	805.4	859.3
52.5°	1003.8	960.3	875.5	806.2	759.9	711.7	700.2	712.9	717.9	746.4	796.1
55°	954.9	907.9	819.3	751.8	701.7	654.7	645.1	650.1	660.9	687.9	734.1
57.5°	899.8	853.2	759.9	691.3	643.2	598.1	590.0	594.6	604.6	630.8	672.4
60°	841.2	791.9	699.4	630.8	584.2	541.4	534.1	538.3	549.1	573.0	611.6
62.5°	783.4	727.9	637.0	568.8	526.4	486.7	484.8	483.2	493.3	516.4	550.3
65°	713.3	660.1	571.9	507.1	468.6	432.8	425.0	428.5	438.1	459.3	494.8
67.5°	638.1	590.0	505.2	445.5	411.2	379.2	372.6	374.2	384.2	402.7	433.5
70°	558.4	516.0	437.0	383.4	354.5	324.5	320.2	320.6	330.2	346.4	373.4
72.5°	474.8	436.6	368.0	322.2	298.3	276.7	272.8	268.2	277.1	290.9	314.1
75°	389.6	356.1	299.4	262.0	243.2	225.0	221.6	217.0	225.8	237.8	255.9
77.5°	303.7	276.7	232.8	203.9	189.2	175.7	172.6	167.6	176.5	185.4	199.6
80°	219.7	200.0	173.8	143.4	138.3	129.5	126.4	121.0	129.5	135.3	146.0
82.5°	141.8	128.7	113.7	92.5	91.7	85.2	83.6	77.5	85.2	88.6	96.7
85°	71.7	65.5	61.7	47.0	48.6	44.3	43.9	37.4	43.5	45.1	49.7
87.5°	20.4	21.6	19.3	11.6	14.6	13.9	13.9	10.0	13.9	13.9	15.8
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: P838151

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3LO-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0	1652.0
2.5°	1653.6	1660.1	1661.6	1661.3	1665.5	1688.6	1680.9	1688.6
5°	1657.4	1672.1	1675.9	1681.3	1688.2	1714.4	1706.0	1715.2
7.5°	1659.7	1681.7	1690.2	1700.6	1711.7	1741.0	1734.1	1743.3
10°	1659.7	1688.2	1700.6	1717.9	1732.9	1766.8	1760.3	1771.1
12.5°	1652.8	1689.4	1706.7	1731.0	1750.3	1786.9	1784.2	1791.9
15°	1638.5	1683.6	1707.5	1738.7	1762.6	1803.5	1802.3	1811.5
17.5°	1619.3	1673.6	1702.5	1741.8	1771.9	1817.7	1820.4	1825.4
20°	1595.0	1654.7	1692.5	1740.6	1778.4	1828.9	1832.4	1839.3
22.5°	1563.0	1632.0	1677.4	1735.6	1779.2	1833.5	1839.7	1846.2
25°	1525.2	1604.6	1657.8	1726.0	1775.3	1833.1	1841.6	1847.4
27.5°	1482.1	1569.2	1632.7	1710.6	1764.5	1827.0	1837.4	1844.3
30°	1432.0	1531.4	1604.2	1690.5	1749.9	1815.4	1826.6	1833.5
32.5°	1380.3	1489.8	1570.3	1664.7	1728.7	1796.9	1806.5	1811.9
35°	1324.1	1439.3	1529.5	1631.6	1701.3	1767.2	1774.6	1780.3
37.5°	1262.8	1384.6	1482.8	1594.2	1662.8	1726.0	1732.6	1739.1
40°	1199.6	1327.2	1430.4	1548.4	1616.9	1675.5	1682.5	1687.1
42.5°	1136.0	1263.6	1374.6	1494.4	1562.6	1618.9	1623.1	1627.7
45°	1071.7	1197.7	1311.7	1434.7	1502.1	1554.9	1556.4	1560.3
47.5°	1006.2	1129.5	1242.8	1366.5	1433.1	1481.3	1482.8	1485.9
50°	940.3	1061.3	1169.2	1292.9	1358.0	1408.9	1401.9	1405.0
52.5°	875.5	989.6	1099.8	1213.5	1277.8	1322.9	1324.8	1318.7
55°	811.9	919.5	1020.8	1130.2	1191.5	1226.6	1225.4	1227.7
57.5°	747.6	848.5	941.4	1041.6	1101.3	1134.5	1141.4	1133.3
60°	682.1	776.9	860.1	950.7	1008.5	1036.2	1044.3	1036.6
62.5°	617.0	704.0	779.6	858.6	912.1	946.4	945.7	937.2
65°	551.8	630.8	698.3	765.3	811.9	846.2	844.7	837.0
67.5°	491.7	556.8	617.3	671.7	712.1	735.6	743.7	734.5
70°	425.4	481.7	534.9	578.4	611.9	633.1	640.8	632.8
72.5°	359.1	406.9	444.3	486.3	512.1	529.9	538.0	530.2
75°	293.6	332.9	363.4	396.1	414.3	429.3	438.5	430.8
77.5°	230.1	260.5	284.8	308.7	329.5	332.9	341.0	336.0
80°	169.6	191.5	209.2	225.0	240.1	241.6	248.2	245.1
82.5°	112.9	127.6	132.2	148.7	158.4	156.8	163.4	161.1
85°	59.7	68.6	76.7	81.7	87.1	82.1	87.9	85.5
87.5°	20.0	21.2	18.5	26.2	28.9	24.7	28.1	27.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)