

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: P838184

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2LO-30-120-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: P838184
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-LD4-2LO-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

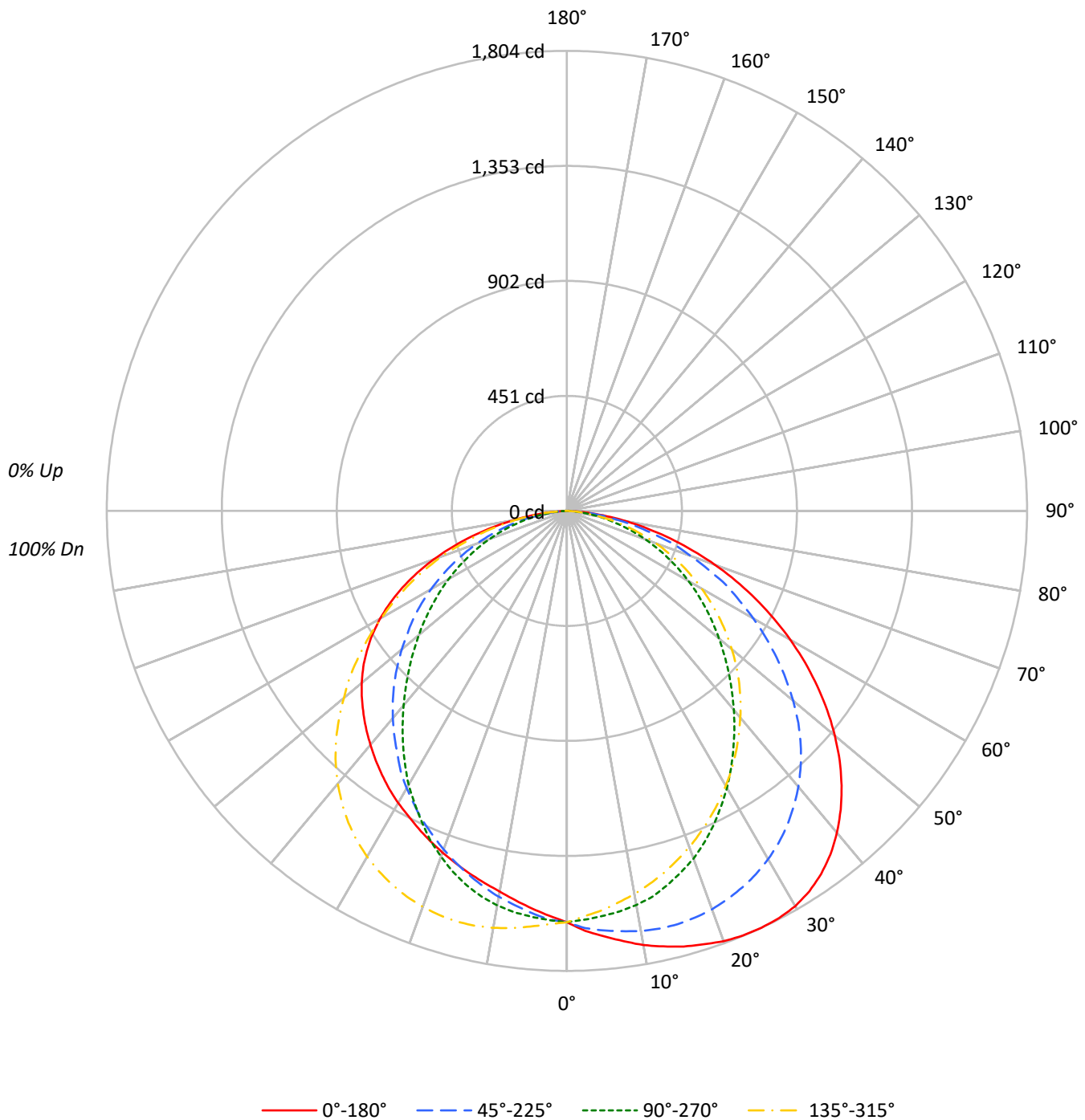
Lumens per Lamp: N/A
Luminaire Lumens: 4731.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2170	2170	2170	2170
5°	2262	2154	2114	2158
10°	2362	2143	2071	2146
15°	2463	2116	2051	2117
20°	2571	2078	2042	2066
25°	2677	2019	2041	1999
30°	2781	1949	2055	1928
35°	2855	1869	2076	1839
40°	2893	1789	2105	1748
45°	2898	1707	2145	1664
50°	2871	1629	2198	1586
55°	2812	1557	2247	1514
60°	2723	1481	2277	1443
65°	2601	1394	2265	1362
70°	2430	1292	2185	1268
75°	2187	1152	2005	1146
80°	1854	965	1684	979
85°	1289	639	1068	656

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	3.2
10°-20°	443.4	9.4
20°-30°	679.5	14.4
30°-40°	826.3	17.5
40°-50°	859.0	18.2
50°-60°	775.9	16.4
60°-70°	589.9	12.5
70°-80°	328.9	7.0
80°-90°	75.7	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°	1276.1	27.0
0°-40°	2102.3	44.4
0°-60°	3737.2	79.0
0°-90°	4731.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4731.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1613	1613	1613	1613	1613	
5°	1674	1595	1565	1598	1674	161
15°	1768	1519	1472	1520	1768	501
25°	1804	1360	1375	1346	1804	833
35°	1738	1138	1264	1120	1738	1086
45°	1523	897	1128	875	1523	1173
55°	1199	664	958	645	1199	1070
65°	817	438	711	428	817	807
75°	421	222	386	220	421	447
85°	84	41	69	42	84	105
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°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1648.5	1624.4	1624.8	1645.9	1629.7	1637.6	1615.0	1623.7	1621.0	1622.9	1604.5
5°	1674.5	1648.5	1648.1	1666.2	1648.1	1651.5	1622.9	1628.6	1620.3	1615.0	1595.1
7.5°	1701.9	1676.0	1673.3	1689.1	1665.4	1662.8	1631.2	1631.2	1616.2	1603.0	1584.2
10°	1729.0	1702.3	1698.9	1711.0	1681.6	1673.0	1634.6	1628.6	1608.6	1589.1	1568.7
12.5°	1749.3	1722.2	1719.6	1727.1	1694.0	1678.2	1634.6	1622.9	1593.6	1566.1	1550.3
15°	1768.5	1740.7	1733.5	1737.3	1699.3	1678.2	1629.3	1611.3	1573.6	1537.5	1519.1
17.5°	1782.1	1755.3	1748.2	1747.8	1701.9	1671.8	1618.0	1593.2	1548.1	1504.4	1486.0
20°	1795.6	1768.9	1759.9	1753.1	1701.2	1663.2	1601.5	1568.0	1515.3	1466.4	1451.0
22.5°	1802.4	1774.9	1765.1	1755.0	1696.3	1647.4	1581.2	1538.7	1478.5	1420.2	1407.4
25°	1803.5	1775.3	1764.7	1750.1	1686.5	1628.6	1554.8	1503.3	1436.0	1371.2	1360.3
27.5°	1800.5	1769.6	1759.1	1741.4	1671.8	1605.6	1523.6	1463.0	1390.8	1319.3	1307.7
30°	1790.0	1758.7	1748.6	1725.6	1651.1	1577.4	1489.4	1418.3	1340.8	1264.8	1254.6
32.5°	1768.9	1738.4	1730.1	1707.2	1628.6	1544.7	1449.5	1370.1	1285.5	1212.9	1197.8
35°	1738.0	1707.6	1702.3	1678.2	1597.0	1505.5	1405.9	1317.4	1226.8	1152.7	1138.0
37.5°	1697.8	1672.2	1664.3	1640.6	1559.7	1461.2	1355.8	1260.3	1167.0	1087.2	1078.2
40°	1647.0	1622.9	1616.9	1595.8	1516.5	1411.9	1301.6	1201.2	1105.3	1031.2	1018.4
42.5°	1589.1	1566.5	1563.1	1541.3	1463.0	1357.3	1243.0	1139.9	1040.9	969.5	956.7
45°	1523.2	1501.4	1500.7	1480.0	1404.7	1296.8	1181.3	1077.8	978.1	904.0	897.2
47.5°	1450.6	1431.1	1431.1	1411.9	1339.6	1230.2	1117.7	1013.1	914.9	849.5	837.4
50°	1371.6	1353.2	1347.5	1338.1	1267.8	1157.6	1050.7	949.9	852.5	790.0	778.4
52.5°	1287.4	1271.6	1275.3	1258.0	1189.9	1081.9	983.0	878.8	789.6	732.8	721.2
55°	1198.6	1176.0	1179.4	1173.0	1108.7	1004.1	907.0	820.1	727.9	674.5	663.6
57.5°	1106.4	1077.1	1089.1	1085.3	1022.1	924.3	837.4	753.5	666.6	617.3	606.8
60°	1012.0	983.8	996.2	992.8	933.3	844.6	765.6	687.7	605.7	560.9	550.4
62.5°	914.9	889.0	900.2	897.6	843.1	762.9	694.1	622.6	544.4	504.1	494.3
65°	817.1	792.3	802.4	800.6	750.1	689.2	620.7	555.3	482.7	447.7	437.9
67.5°	717.0	694.1	703.5	703.5	657.2	598.9	547.0	487.2	422.1	392.0	383.0
70°	617.7	596.3	604.6	603.8	564.7	517.3	472.5	419.1	360.8	335.9	328.4
72.5°	517.6	498.8	506.4	505.6	472.9	442.4	398.0	351.7	301.0	281.0	274.2
75°	420.6	402.9	410.1	409.3	382.6	354.0	324.3	285.9	242.3	228.4	221.6
77.5°	328.0	310.0	316.0	316.0	296.4	275.8	252.1	222.3	191.5	176.4	171.5
80°	239.3	230.6	227.6	228.0	214.8	201.3	189.2	160.6	138.1	127.9	124.5
82.5°	157.3	150.1	147.1	147.8	140.3	132.0	124.5	104.6	89.5	83.5	81.6
85°	83.5	78.2	75.6	77.5	76.0	71.5	67.7	54.2	44.8	42.5	41.4
87.5°	26.3	22.9	21.1	27.8	23.7	21.1	20.3	16.2	12.4	12.4	12.0
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°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1610.5	1610.5	1595.8	1592.4	1590.9	1592.8	1578.2	1575.5	1596.6	1589.4	1573.3
5°	1597.7	1597.0	1576.3	1572.5	1572.5	1570.3	1553.7	1549.9	1571.0	1565.0	1547.3
7.5°	1581.9	1579.7	1555.2	1552.6	1548.8	1547.3	1528.9	1526.2	1544.3	1540.5	1524.0
10°	1562.7	1560.5	1531.5	1529.6	1525.5	1522.5	1505.2	1503.3	1521.7	1515.7	1502.5
12.5°	1537.5	1533.4	1503.7	1501.8	1498.4	1497.3	1480.3	1479.6	1499.9	1493.9	1480.0
15°	1504.4	1501.0	1467.9	1468.7	1469.1	1469.1	1455.5	1454.8	1474.7	1472.1	1457.0
17.5°	1467.9	1463.4	1431.8	1434.1	1436.7	1439.7	1429.2	1431.1	1452.1	1448.7	1435.2
20°	1426.5	1422.0	1391.2	1397.6	1403.2	1409.2	1402.5	1407.7	1427.3	1425.8	1415.6
22.5°	1380.3	1375.8	1347.2	1356.9	1366.4	1377.6	1374.6	1380.6	1401.3	1401.0	1391.9
25°	1323.8	1325.0	1299.8	1311.8	1327.6	1343.4	1344.5	1354.3	1377.3	1375.0	1366.7
27.5°	1271.2	1272.7	1246.0	1266.3	1287.4	1307.7	1312.6	1326.1	1349.4	1347.5	1340.4
30°	1215.9	1217.8	1191.8	1219.6	1245.2	1270.0	1280.6	1299.0	1322.7	1322.7	1315.2
32.5°	1158.3	1161.7	1134.6	1171.9	1201.6	1230.5	1249.0	1268.2	1295.3	1294.5	1288.1
35°	1099.3	1103.0	1078.2	1125.6	1155.3	1190.7	1213.6	1239.2	1263.3	1263.7	1258.8
37.5°	1039.1	1043.6	1021.0	1072.9	1106.8	1148.5	1177.9	1203.5	1230.2	1231.7	1227.2
40°	979.2	984.1	964.6	1014.6	1057.5	1104.1	1138.0	1168.1	1197.4	1198.2	1195.2
42.5°	919.4	924.7	910.0	958.9	1007.5	1057.5	1097.4	1131.6	1161.7	1163.6	1160.2
45°	861.1	865.6	855.1	908.5	955.2	1009.7	1055.6	1094.4	1124.8	1127.5	1126.3
47.5°	803.2	807.3	797.9	846.8	900.6	958.6	1011.6	1054.5	1086.8	1089.8	1089.1
50°	746.4	749.8	739.6	790.8	844.2	905.9	961.2	1010.8	1047.0	1050.0	1049.6
52.5°	689.9	693.3	684.7	738.5	787.0	852.1	912.3	966.1	1001.8	1006.3	1007.1
55°	635.4	636.9	630.1	681.7	728.7	796.8	866.0	918.3	954.0	957.8	960.1
57.5°	580.9	581.2	575.6	624.9	670.0	739.6	812.2	867.1	901.0	904.8	908.1
60°	526.7	526.3	519.9	567.7	610.9	679.8	755.4	810.0	842.7	846.1	850.6
62.5°	472.9	471.8	466.1	510.1	550.8	618.8	694.8	747.5	778.7	781.0	787.0
65°	419.5	418.3	413.1	453.7	490.6	555.6	630.1	680.2	708.4	711.4	710.3
67.5°	366.8	364.5	360.4	396.9	430.4	490.6	562.0	609.8	633.1	635.8	642.9
70°	314.1	311.5	302.1	340.8	370.2	424.0	490.6	533.1	552.6	555.3	554.1
72.5°	262.2	259.6	249.4	285.2	310.0	357.0	416.5	451.8	468.7	471.0	471.0
75°	211.8	210.3	203.9	231.0	251.7	290.0	340.5	369.8	383.0	385.6	384.9
77.5°	163.3	162.1	155.7	179.1	195.2	223.8	264.5	287.4	297.2	300.2	306.6
80°	117.0	116.6	106.5	129.4	136.6	160.6	190.4	208.0	213.3	217.4	222.0
82.5°	74.9	75.2	65.1	84.6	87.7	103.1	121.5	132.4	136.2	139.6	143.0
85°	36.5	38.0	32.4	44.8	45.1	53.0	60.9	65.1	66.6	69.2	72.2
87.5°	9.4	10.9	6.0	12.8	11.3	14.7	16.9	18.1	17.7	19.6	20.7
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°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1578.5	1590.6	1584.5	1604.1	1611.6	1599.6	1620.7	1621.0	1606.0	1623.7	1633.5
5°	1554.1	1566.5	1562.7	1583.0	1592.4	1581.9	1607.5	1612.4	1597.7	1617.7	1633.5
7.5°	1529.2	1543.9	1539.0	1559.7	1571.0	1562.7	1590.2	1598.1	1586.8	1608.6	1629.7
10°	1507.8	1520.2	1515.0	1536.8	1546.6	1539.8	1566.9	1581.5	1571.0	1597.7	1622.9
12.5°	1486.7	1496.9	1490.9	1508.9	1518.3	1509.7	1542.8	1556.3	1548.8	1576.6	1609.0
15°	1459.7	1470.9	1462.7	1478.8	1486.0	1478.5	1505.5	1528.9	1519.5	1549.9	1585.7
17.5°	1439.0	1445.4	1434.1	1446.9	1451.0	1440.8	1468.3	1491.3	1484.5	1517.6	1559.0
20°	1416.0	1421.3	1405.5	1412.6	1412.3	1399.5	1424.7	1447.2	1442.7	1479.2	1526.2
22.5°	1390.4	1393.1	1374.6	1376.1	1375.4	1354.3	1376.9	1399.8	1398.0	1434.8	1487.5
25°	1363.3	1363.7	1340.0	1339.3	1331.0	1306.2	1326.1	1352.1	1346.4	1386.3	1441.6
27.5°	1336.6	1332.9	1304.3	1297.5	1284.3	1254.6	1272.3	1295.6	1292.2	1331.4	1392.7
30°	1308.0	1303.2	1268.2	1255.8	1236.6	1202.3	1217.0	1238.8	1240.7	1274.9	1339.3
32.5°	1281.0	1268.5	1229.8	1211.7	1187.7	1147.8	1155.7	1177.9	1180.9	1215.5	1281.7
35°	1246.0	1237.7	1189.9	1159.1	1135.4	1091.7	1100.0	1115.4	1119.9	1153.8	1221.1
37.5°	1212.9	1199.7	1148.9	1111.3	1080.8	1034.9	1037.2	1053.0	1057.5	1091.7	1158.3
40°	1178.6	1159.8	1105.3	1061.3	1026.3	978.1	975.5	992.0	995.4	1028.9	1089.1
42.5°	1142.1	1119.6	1058.2	1010.1	969.8	920.9	915.7	930.0	933.7	966.5	1025.5
45°	1105.3	1078.2	1010.1	957.4	913.4	863.4	858.1	869.0	874.7	905.5	962.3
47.5°	1066.1	1034.5	960.4	901.7	856.2	806.2	799.8	810.7	815.2	845.7	899.5
50°	1025.1	986.8	909.3	844.6	799.4	750.1	740.7	753.5	757.7	786.3	838.9
52.5°	980.0	937.5	854.7	787.0	741.9	694.8	683.6	696.0	700.9	728.7	777.2
55°	932.2	886.3	799.8	734.0	685.1	639.2	629.8	634.6	645.2	671.5	716.7
57.5°	878.4	832.9	741.9	674.9	627.9	583.9	576.0	580.5	590.3	615.8	656.5
60°	821.2	773.1	682.8	615.8	570.3	528.6	521.4	525.5	536.1	559.4	597.0
62.5°	764.8	710.6	621.9	555.3	513.9	475.1	473.3	471.8	481.5	504.1	537.2
65°	696.3	644.4	558.3	495.1	457.5	422.5	414.9	418.3	427.7	448.4	483.0
67.5°	623.0	576.0	493.2	434.9	401.4	370.2	363.8	365.3	375.1	393.1	423.2
70°	545.1	503.7	426.6	374.3	346.1	316.8	312.6	313.0	322.4	338.2	364.5
72.5°	463.5	426.2	359.3	314.5	291.2	270.1	266.3	261.8	270.5	284.0	306.6
75°	380.3	347.6	292.3	255.8	237.4	219.7	216.3	211.8	220.5	232.1	249.8
77.5°	296.4	270.1	227.2	199.0	184.7	171.5	168.5	163.6	172.3	181.0	194.9
80°	214.4	195.2	169.7	139.9	135.1	126.4	123.4	118.1	126.4	132.0	142.6
82.5°	138.4	125.7	111.0	90.3	89.5	83.1	81.6	75.6	83.1	86.5	94.4
85°	70.0	64.0	60.2	45.9	47.4	43.3	42.9	36.5	42.5	44.0	48.5
87.5°	19.9	21.1	18.8	11.3	14.3	13.5	13.5	9.8	13.5	13.5	15.4
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: P838184

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2LO-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1614.3	1620.7	1622.2	1621.8	1625.9	1648.5	1641.0	1648.5
5°	1618.0	1632.3	1636.1	1641.4	1648.1	1673.7	1665.4	1674.5
7.5°	1620.3	1641.7	1650.0	1660.2	1671.1	1699.7	1692.9	1701.9
10°	1620.3	1648.1	1660.2	1677.1	1691.8	1724.9	1718.5	1729.0
12.5°	1613.5	1649.3	1666.2	1689.9	1708.7	1744.4	1741.8	1749.3
15°	1599.6	1643.6	1666.9	1697.4	1720.7	1760.6	1759.5	1768.5
17.5°	1580.8	1633.8	1662.0	1700.4	1729.8	1774.5	1777.2	1782.1
20°	1557.1	1615.4	1652.3	1699.3	1736.2	1785.4	1788.8	1795.6
22.5°	1525.9	1593.2	1637.6	1694.4	1736.9	1790.0	1796.0	1802.4
25°	1489.0	1566.5	1618.4	1685.0	1733.1	1789.6	1797.9	1803.5
27.5°	1446.9	1531.9	1594.0	1669.9	1722.6	1783.6	1793.7	1800.5
30°	1398.0	1495.0	1566.1	1650.4	1708.3	1772.3	1783.2	1790.0
32.5°	1347.5	1454.4	1533.0	1625.2	1687.6	1754.2	1763.6	1768.9
35°	1292.6	1405.1	1493.1	1592.8	1660.9	1725.2	1732.4	1738.0
37.5°	1232.8	1351.7	1447.6	1556.3	1623.3	1685.0	1691.4	1697.8
40°	1171.1	1295.6	1396.5	1511.6	1578.5	1635.7	1642.5	1647.0
42.5°	1109.0	1233.6	1341.9	1458.9	1525.5	1580.4	1584.5	1589.1
45°	1046.2	1169.2	1280.6	1400.6	1466.4	1518.0	1519.5	1523.2
47.5°	982.3	1102.6	1213.2	1334.0	1399.1	1446.1	1447.6	1450.6
50°	917.9	1036.1	1141.4	1262.1	1325.7	1375.4	1368.6	1371.6
52.5°	854.7	966.1	1073.7	1184.7	1247.5	1291.5	1293.4	1287.4
55°	792.7	897.6	996.6	1103.4	1163.2	1197.4	1196.3	1198.6
57.5°	729.8	828.4	919.1	1016.9	1075.2	1107.5	1114.3	1106.4
60°	665.9	758.4	839.7	928.1	984.5	1011.6	1019.5	1012.0
62.5°	602.3	687.3	761.1	838.2	890.5	923.9	923.2	914.9
65°	538.7	615.8	681.7	747.1	792.7	826.1	824.6	817.1
67.5°	480.0	543.6	602.7	655.7	695.2	718.2	726.1	717.0
70°	415.3	470.2	522.2	564.7	597.4	618.1	625.6	617.7
72.5°	350.6	397.3	433.8	474.8	500.0	517.3	525.2	517.6
75°	286.7	325.0	354.8	386.7	404.4	419.1	428.1	420.6
77.5°	224.6	254.3	278.0	301.3	321.7	325.0	332.9	328.0
80°	165.5	187.0	204.3	219.7	234.4	235.9	242.3	239.3
82.5°	110.2	124.5	129.0	145.2	154.6	153.1	159.5	157.3
85°	58.3	67.0	74.9	79.8	85.0	80.1	85.8	83.5
87.5°	19.6	20.7	18.1	25.6	28.2	24.1	27.5	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)