

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: P837717

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2STD-20-120-EDD**

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: P837717
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-2STD-20-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

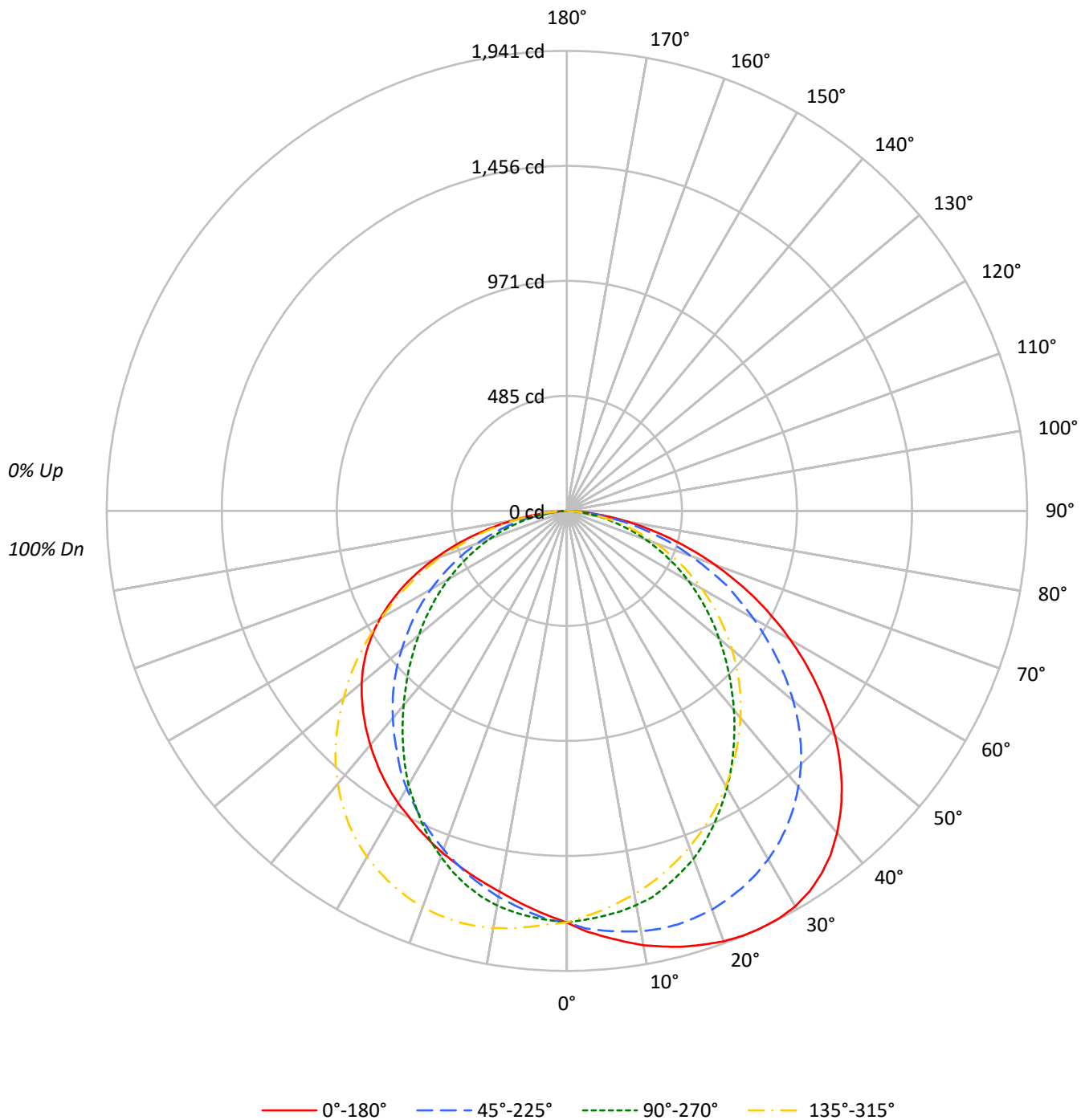
Lumens per Lamp: N/A
Luminaire Lumens: 5093.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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°	4672	4672	4672	4672
5°	4869	4638	4550	4646
10°	5085	4614	4458	4621
15°	5303	4555	4414	4557
20°	5535	4473	4395	4447
25°	5764	4348	4395	4303
30°	5987	4196	4424	4150
35°	6146	4024	4468	3960
40°	6228	3851	4530	3764
45°	6240	3675	4618	3583
50°	6181	3507	4731	3414
55°	6053	3351	4837	3258
60°	5863	3188	4901	3105
65°	5600	3001	4876	2932
70°	5231	2781	4703	2730
75°	4707	2480	4316	2467
80°	3990	2077	3628	2109
85°	2776	1374	2300	1414

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.2
10°-20°	477.3	9.4
20°-30°	731.5	14.4
30°-40°	889.4	17.5
40°-50°	924.6	18.2
50°-60°	835.2	16.4
60°-70°	634.9	12.5
70°-80°	354.0	7.0
80°-90°	81.5	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°	1373.5	27.0
0°-40°	2262.9	44.4
0°-60°	4022.7	79.0
0°-90°	5093.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5093.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1736	1736	1736	1736	1736	
5°	1802	1717	1684	1720	1802	174
15°	1904	1635	1584	1636	1904	540
25°	1941	1464	1480	1449	1941	897
35°	1871	1225	1360	1206	1871	1168
45°	1640	966	1214	942	1640	1262
55°	1290	714	1031	694	1290	1152
65°	880	471	766	460	880	869
75°	453	238	415	237	453	481
85°	90	44	74	46	90	113
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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1774.4	1748.5	1748.9	1771.6	1754.2	1762.7	1738.4	1747.7	1744.9	1746.9	1727.1
5°	1802.4	1774.4	1774.0	1793.5	1774.0	1777.7	1746.9	1753.0	1744.1	1738.4	1716.9
7.5°	1831.9	1804.0	1801.2	1818.2	1792.7	1789.8	1755.8	1755.8	1739.6	1725.4	1705.2
10°	1861.1	1832.4	1828.7	1841.7	1810.1	1800.8	1759.5	1753.0	1731.5	1710.5	1688.6
12.5°	1883.0	1853.8	1851.0	1859.1	1823.4	1806.4	1759.5	1746.9	1715.3	1685.8	1668.8
15°	1903.6	1873.7	1866.0	1870.0	1829.1	1806.4	1753.8	1734.4	1693.9	1655.0	1635.1
17.5°	1918.2	1889.4	1881.8	1881.3	1831.9	1799.6	1741.6	1714.9	1666.3	1619.4	1599.5
20°	1932.8	1904.0	1894.3	1887.0	1831.1	1790.2	1723.8	1687.8	1631.1	1578.5	1561.9
22.5°	1940.1	1910.5	1900.0	1889.0	1825.9	1773.2	1702.0	1656.2	1591.4	1528.6	1514.9
25°	1941.3	1910.9	1899.6	1883.8	1815.3	1753.0	1673.6	1618.1	1545.7	1476.0	1464.3
27.5°	1938.0	1904.8	1893.5	1874.5	1799.6	1728.3	1640.0	1574.8	1497.1	1420.1	1407.6
30°	1926.7	1893.1	1882.2	1857.5	1777.3	1697.9	1603.2	1526.6	1443.2	1361.4	1350.5
32.5°	1904.0	1871.2	1862.3	1837.6	1753.0	1662.7	1560.2	1474.8	1383.7	1305.5	1289.3
35°	1870.8	1838.0	1832.4	1806.4	1719.0	1620.6	1513.3	1418.1	1320.5	1240.7	1224.9
37.5°	1827.5	1800.0	1791.5	1765.9	1678.9	1572.8	1459.4	1356.5	1256.1	1170.3	1160.6
40°	1772.8	1746.9	1740.4	1717.8	1632.3	1519.7	1401.1	1293.0	1189.7	1109.9	1096.2
42.5°	1710.5	1686.2	1682.5	1659.0	1574.8	1461.0	1337.9	1227.0	1120.5	1043.5	1029.8
45°	1639.6	1616.1	1615.3	1593.0	1512.0	1395.8	1271.5	1160.2	1052.8	973.1	965.8
47.5°	1561.4	1540.4	1540.4	1519.7	1442.0	1324.2	1203.1	1090.5	984.8	914.4	901.4
50°	1476.4	1456.6	1450.5	1440.4	1364.6	1246.0	1131.0	1022.5	917.6	850.4	837.8
52.5°	1385.7	1368.7	1372.7	1354.1	1280.8	1164.6	1058.1	945.9	850.0	788.8	776.3
55°	1290.1	1265.8	1269.5	1262.6	1193.4	1080.8	976.3	882.8	783.6	726.1	714.3
57.5°	1190.9	1159.3	1172.3	1168.3	1100.2	994.9	901.4	811.1	717.6	664.5	653.2
60°	1089.3	1058.9	1072.3	1068.6	1004.7	909.1	824.1	740.2	652.0	603.8	592.4
62.5°	984.8	956.9	969.0	966.2	907.5	821.2	747.1	670.2	585.9	542.6	532.1
65°	879.5	852.8	863.7	861.7	807.4	741.8	668.2	597.7	519.5	481.9	471.3
67.5°	771.8	747.1	757.2	757.2	707.4	644.7	588.8	524.4	454.3	421.9	412.2
70°	664.9	641.8	650.7	649.9	607.8	556.8	508.6	451.1	388.3	361.6	353.5
72.5°	557.2	536.9	545.0	544.2	509.0	476.2	428.4	378.6	324.0	302.5	295.2
75°	452.7	433.7	441.4	440.6	411.8	381.0	349.1	307.8	260.8	245.8	238.5
77.5°	353.1	333.7	340.1	340.1	319.1	296.8	271.3	239.3	206.1	189.9	184.7
80°	257.5	248.2	245.0	245.4	231.2	216.6	203.7	172.9	148.6	137.7	134.0
82.5°	169.3	161.6	158.3	159.1	151.0	142.1	134.0	112.6	96.4	89.9	87.9
85°	89.9	84.2	81.4	83.4	81.8	76.9	72.9	58.3	48.2	45.8	44.5
87.5°	28.3	24.7	22.7	30.0	25.5	22.7	21.9	17.4	13.4	13.4	13.0
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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1733.5	1733.5	1717.8	1714.1	1712.5	1714.5	1698.7	1695.9	1718.6	1710.9	1693.5
5°	1719.8	1719.0	1696.7	1692.6	1692.6	1690.2	1672.4	1668.4	1691.0	1684.5	1665.5
7.5°	1702.8	1700.3	1674.0	1671.2	1667.1	1665.5	1645.7	1642.8	1662.3	1658.2	1640.4
10°	1682.1	1679.7	1648.5	1646.5	1642.0	1638.8	1620.2	1618.1	1638.0	1631.5	1617.3
12.5°	1655.0	1650.5	1618.5	1616.5	1612.9	1611.7	1593.4	1592.6	1614.5	1608.0	1593.0
15°	1619.4	1615.7	1580.1	1580.9	1581.3	1581.3	1566.7	1565.9	1587.4	1584.5	1568.3
17.5°	1580.1	1575.2	1541.2	1543.6	1546.5	1549.7	1538.4	1540.4	1563.1	1559.4	1544.8
20°	1535.5	1530.7	1497.5	1504.4	1510.4	1516.9	1509.6	1515.3	1536.3	1534.7	1523.8
22.5°	1485.7	1480.9	1450.1	1460.6	1470.7	1482.9	1479.6	1486.1	1508.4	1508.0	1498.3
25°	1425.0	1426.2	1399.1	1412.0	1429.0	1446.0	1447.3	1457.8	1482.5	1480.1	1471.1
27.5°	1368.3	1369.9	1341.2	1363.0	1385.7	1407.6	1412.8	1427.4	1452.5	1450.5	1442.8
30°	1308.8	1310.8	1282.8	1312.8	1340.4	1367.1	1378.4	1398.3	1423.8	1423.8	1415.7
32.5°	1246.8	1250.5	1221.3	1261.4	1293.4	1324.6	1344.4	1365.1	1394.2	1393.4	1386.5
35°	1183.2	1187.3	1160.6	1211.6	1243.6	1281.6	1306.3	1333.9	1359.8	1360.2	1354.9
37.5°	1118.4	1123.3	1099.0	1154.9	1191.3	1236.3	1267.9	1295.4	1324.2	1325.8	1320.9
40°	1054.1	1059.3	1038.3	1092.1	1138.3	1188.5	1224.9	1257.3	1288.9	1289.7	1286.5
42.5°	989.7	995.3	979.5	1032.2	1084.4	1138.3	1181.2	1218.1	1250.5	1252.5	1248.8
45°	926.9	931.8	920.4	977.9	1028.1	1086.9	1136.3	1178.0	1210.8	1213.6	1212.4
47.5°	864.5	869.0	858.9	911.5	969.4	1031.8	1088.9	1135.0	1169.9	1173.1	1172.3
50°	803.4	807.0	796.1	851.2	908.7	975.1	1034.6	1088.1	1126.9	1130.2	1129.8
52.5°	742.7	746.3	737.0	794.9	847.1	917.2	982.0	1039.9	1078.4	1083.2	1084.0
55°	683.9	685.6	678.3	733.8	784.4	857.7	932.2	988.5	1026.9	1031.0	1033.4
57.5°	625.2	625.6	619.6	672.6	721.2	796.1	874.3	933.4	969.8	973.9	977.5
60°	566.9	566.5	559.6	611.1	657.6	731.7	813.1	871.8	907.1	910.7	915.6
62.5°	509.0	507.8	501.7	549.1	592.8	666.1	747.9	804.6	838.2	840.7	847.1
65°	451.5	450.3	444.6	488.4	528.0	598.1	678.3	732.1	762.5	765.7	764.5
67.5°	394.8	392.4	387.9	427.2	463.3	528.0	605.0	656.4	681.5	684.3	692.0
70°	338.1	335.3	325.2	366.9	398.5	456.4	528.0	573.8	594.9	597.7	596.5
72.5°	282.2	279.4	268.5	306.9	333.7	384.3	448.3	486.3	504.6	507.0	507.0
75°	228.0	226.4	219.5	248.6	270.9	312.2	366.5	398.1	412.2	415.1	414.3
77.5°	175.7	174.5	167.6	192.8	210.2	240.9	284.7	309.4	319.9	323.1	330.0
80°	125.9	125.5	114.6	139.3	147.0	172.9	204.9	223.9	229.6	234.1	238.9
82.5°	80.6	81.0	70.1	91.1	94.4	111.0	130.8	142.5	146.6	150.2	153.9
85°	39.3	40.9	34.8	48.2	48.6	57.1	65.6	70.1	71.7	74.5	77.7
87.5°	10.1	11.7	6.5	13.8	12.1	15.8	18.2	19.4	19.0	21.1	22.3
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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1699.1	1712.1	1705.6	1726.7	1734.8	1721.8	1744.5	1744.9	1728.7	1747.7	1758.2
5°	1672.8	1686.2	1682.1	1704.0	1714.1	1702.8	1730.3	1735.6	1719.8	1741.2	1758.2
7.5°	1646.1	1661.9	1656.6	1678.9	1691.0	1682.1	1711.7	1720.2	1708.0	1731.5	1754.2
10°	1623.0	1636.4	1630.7	1654.2	1664.7	1657.4	1686.6	1702.4	1691.0	1719.8	1746.9
12.5°	1600.3	1611.3	1604.8	1624.2	1634.3	1625.0	1660.7	1675.2	1667.1	1697.1	1731.9
15°	1571.2	1583.3	1574.4	1591.8	1599.5	1591.4	1620.6	1645.7	1635.6	1668.4	1706.8
17.5°	1548.9	1555.8	1543.6	1557.4	1561.9	1550.9	1580.5	1605.2	1597.9	1633.5	1678.1
20°	1524.2	1529.9	1512.9	1520.5	1520.1	1506.4	1533.5	1557.8	1552.9	1592.2	1642.8
22.5°	1496.7	1499.5	1479.6	1481.3	1480.5	1457.8	1482.1	1506.8	1504.8	1544.4	1601.1
25°	1467.5	1467.9	1442.4	1441.6	1432.7	1406.0	1427.4	1455.4	1449.3	1492.2	1551.7
27.5°	1438.8	1434.7	1403.9	1396.6	1382.5	1350.5	1369.5	1394.6	1391.0	1433.1	1499.1
30°	1408.0	1402.7	1365.1	1351.7	1331.0	1294.2	1310.0	1333.5	1335.5	1372.3	1441.6
32.5°	1378.8	1365.5	1323.7	1304.3	1278.4	1235.5	1244.0	1267.9	1271.1	1308.4	1379.6
35°	1341.2	1332.3	1280.8	1247.6	1222.1	1175.1	1184.0	1200.6	1205.5	1241.9	1314.4
37.5°	1305.5	1291.4	1236.7	1196.2	1163.4	1114.0	1116.4	1133.4	1138.3	1175.1	1246.8
40°	1268.7	1248.4	1189.7	1142.3	1104.7	1052.8	1050.0	1067.8	1071.5	1107.5	1172.3
42.5°	1229.4	1205.1	1139.1	1087.3	1043.9	991.3	985.6	1001.0	1005.1	1040.3	1103.9
45°	1189.7	1160.6	1087.3	1030.6	983.2	929.3	923.7	935.4	941.5	974.7	1035.8
47.5°	1147.6	1113.6	1033.8	970.6	921.6	867.8	860.9	872.6	877.5	910.3	968.2
50°	1103.5	1062.2	978.7	909.1	860.5	807.4	797.3	811.1	815.5	846.3	903.0
52.5°	1054.9	1009.1	920.0	847.1	798.5	747.9	735.8	749.1	754.4	784.4	836.6
55°	1003.4	954.0	860.9	790.0	737.4	688.0	677.9	683.1	694.5	722.8	771.4
57.5°	945.5	896.5	798.5	726.5	675.8	628.5	620.0	624.8	635.4	662.9	706.6
60°	884.0	832.2	735.0	662.9	613.9	568.9	561.2	565.7	577.0	602.1	642.6
62.5°	823.2	764.9	669.4	597.7	553.1	511.4	509.4	507.8	518.3	542.6	578.3
65°	749.5	693.7	600.9	532.9	492.4	454.7	446.6	450.3	460.4	482.7	519.9
67.5°	670.6	620.0	530.9	468.1	432.1	398.5	391.6	393.2	403.7	423.2	455.6
70°	586.8	542.2	459.2	402.9	372.5	341.0	336.5	336.9	347.0	364.0	392.4
72.5°	498.9	458.8	386.7	338.5	313.4	290.7	286.7	281.8	291.2	305.7	330.0
75°	409.4	374.2	314.6	275.4	255.5	236.5	232.8	228.0	237.3	249.8	268.9
77.5°	319.1	290.7	244.6	214.2	198.8	184.7	181.4	176.1	185.5	194.8	209.8
80°	230.8	210.2	182.6	150.6	145.4	136.1	132.8	127.2	136.1	142.1	153.5
82.5°	149.0	135.2	119.5	97.2	96.4	89.5	87.9	81.4	89.5	93.1	101.6
85°	75.3	68.8	64.8	49.4	51.0	46.6	46.2	39.3	45.8	47.4	52.2
87.5°	21.5	22.7	20.2	12.1	15.4	14.6	14.6	10.5	14.6	14.6	16.6
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: P837717

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2STD-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1737.6	1744.5	1746.1	1745.7	1750.1	1774.4	1766.3	1774.4
5°	1741.6	1757.0	1761.1	1766.8	1774.0	1801.6	1792.7	1802.4
7.5°	1744.1	1767.2	1776.1	1787.0	1798.7	1829.5	1822.2	1831.9
10°	1744.1	1774.0	1787.0	1805.2	1821.0	1856.6	1849.8	1861.1
12.5°	1736.8	1775.3	1793.5	1819.0	1839.2	1877.7	1874.9	1883.0
15°	1721.8	1769.2	1794.3	1827.1	1852.2	1895.1	1893.9	1903.6
17.5°	1701.6	1758.7	1789.0	1830.3	1861.9	1910.1	1912.9	1918.2
20°	1676.0	1738.8	1778.5	1829.1	1868.8	1921.8	1925.5	1932.8
22.5°	1642.4	1714.9	1762.7	1823.8	1869.6	1926.7	1933.2	1940.1
25°	1602.8	1686.2	1742.1	1813.7	1865.6	1926.3	1935.2	1941.3
27.5°	1557.4	1648.9	1715.7	1797.5	1854.2	1919.8	1930.8	1938.0
30°	1504.8	1609.2	1685.8	1776.5	1838.8	1907.7	1919.4	1926.7
32.5°	1450.5	1565.5	1650.1	1749.3	1816.6	1888.2	1898.4	1904.0
35°	1391.4	1512.4	1607.2	1714.5	1787.8	1857.1	1864.7	1870.8
37.5°	1327.0	1454.9	1558.2	1675.2	1747.3	1813.7	1820.6	1827.5
40°	1260.6	1394.6	1503.1	1627.0	1699.1	1760.7	1768.0	1772.8
42.5°	1193.8	1327.8	1444.4	1570.4	1642.0	1701.2	1705.6	1710.5
45°	1126.1	1258.6	1378.4	1507.6	1578.5	1633.9	1635.6	1639.6
47.5°	1057.3	1186.9	1305.9	1435.9	1506.0	1556.6	1558.2	1561.4
50°	988.1	1115.2	1228.6	1358.6	1427.0	1480.5	1473.2	1476.4
52.5°	920.0	1039.9	1155.7	1275.2	1342.8	1390.2	1392.2	1385.7
55°	853.2	966.2	1072.7	1187.7	1252.1	1288.9	1287.7	1290.1
57.5°	785.6	891.7	989.3	1094.6	1157.3	1192.1	1199.4	1190.9
60°	716.7	816.4	903.8	999.0	1059.7	1088.9	1097.4	1089.3
62.5°	648.3	739.8	819.2	902.2	958.5	994.5	993.7	984.8
65°	579.9	662.9	733.8	804.2	853.2	889.2	887.6	879.5
67.5°	516.7	585.1	648.7	705.8	748.3	773.0	781.5	771.8
70°	447.1	506.2	562.1	607.8	643.0	665.3	673.4	664.9
72.5°	377.4	427.6	466.9	511.0	538.2	556.8	565.3	557.2
75°	308.6	349.9	381.9	416.3	435.3	451.1	460.8	452.7
77.5°	241.7	273.7	299.3	324.4	346.2	349.9	358.4	353.1
80°	178.2	201.3	219.9	236.5	252.3	253.9	260.8	257.5
82.5°	118.6	134.0	138.9	156.3	166.4	164.8	171.7	169.3
85°	62.8	72.1	80.6	85.8	91.5	86.3	92.3	89.9
87.5°	21.1	22.3	19.4	27.5	30.4	25.9	29.6	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)