

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: P838009

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-40-120-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: P838009
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-LD4-3HI-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

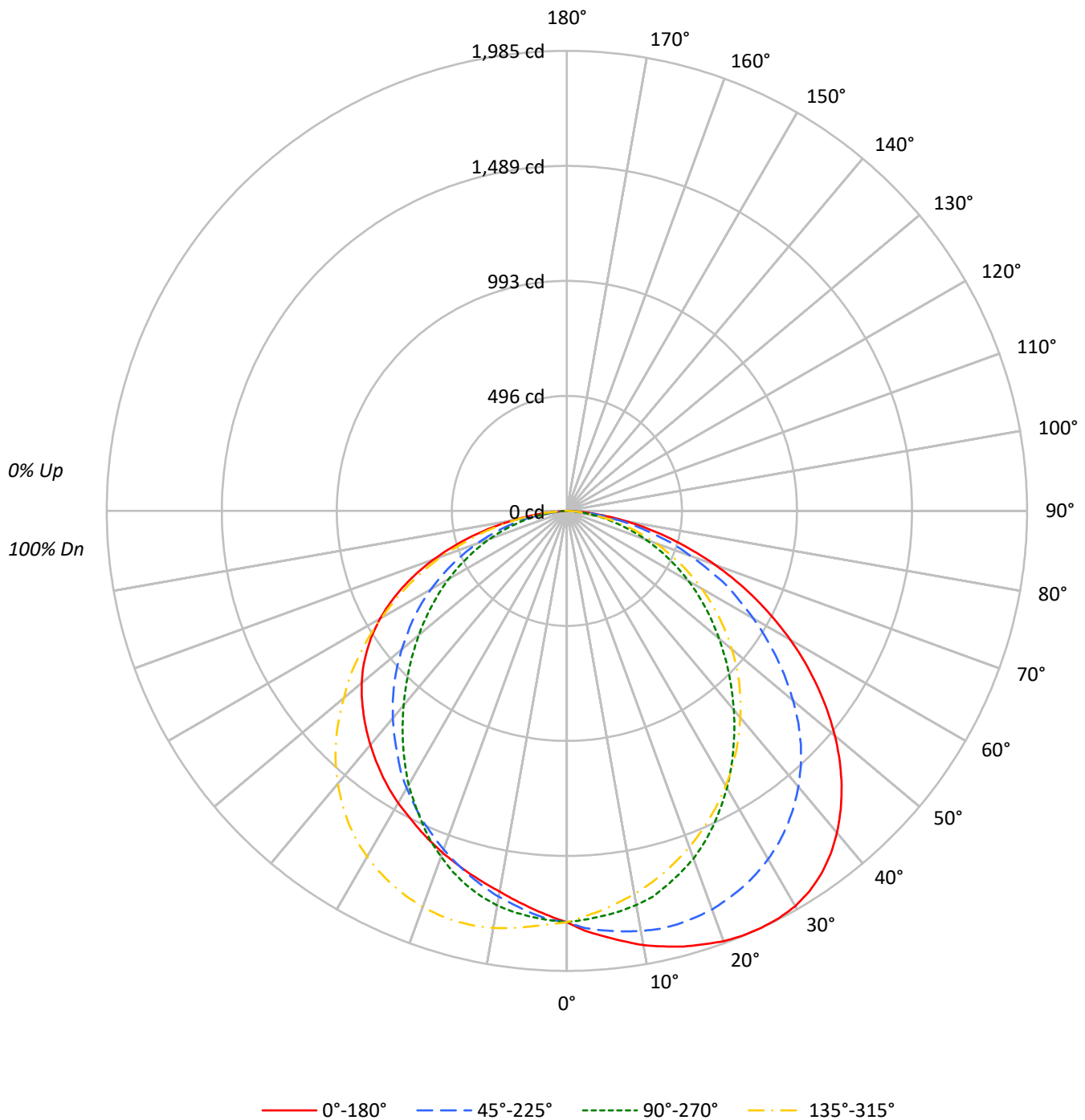
Lumens per Lamp: N/A
Luminaire Lumens: 5206.8 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
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°	4776	4776	4776	4776
5°	4977	4742	4652	4749
10°	5199	4717	4558	4724
15°	5422	4657	4513	4658
20°	5658	4572	4493	4546
25°	5893	4445	4493	4399
30°	6120	4290	4523	4242
35°	6283	4114	4568	4049
40°	6367	3936	4632	3848
45°	6379	3757	4722	3663
50°	6319	3586	4837	3491
55°	6188	3426	4945	3331
60°	5993	3259	5011	3175
65°	5726	3068	4984	2997
70°	5349	2843	4807	2792
75°	4812	2535	4412	2522
80°	4080	2123	3708	2156
85°	2837	1405	2353	1445

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	3.2
10°-20°	487.9	9.4
20°-30°	747.8	14.4
30°-40°	909.2	17.5
40°-50°	945.2	18.2
50°-60°	853.8	16.4
60°-70°	649.1	12.5
70°-80°	361.9	7.0
80°-90°	83.3	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°	1404.2	27.0
0°-40°	2313.5	44.4
0°-60°	4112.5	79.0
0°-90°	5206.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5206.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1775	1775	1775	1775	1775	
5°	1843	1755	1722	1758	1843	178
15°	1946	1672	1620	1672	1946	552
25°	1985	1497	1513	1482	1985	917
35°	1913	1252	1391	1232	1913	1195
45°	1676	987	1241	962	1676	1291
55°	1319	730	1054	710	1319	1177
65°	899	482	783	471	899	889
75°	463	244	424	243	463	492
85°	92	46	76	47	92	116
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°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1814.1	1787.6	1788.0	1811.2	1793.4	1802.0	1777.2	1786.7	1783.8	1785.9	1765.6
5°	1842.6	1814.1	1813.6	1833.5	1813.6	1817.4	1785.9	1792.1	1783.0	1777.2	1755.3
7.5°	1872.8	1844.3	1841.4	1858.8	1832.7	1829.8	1795.0	1795.0	1778.4	1764.0	1743.3
10°	1902.6	1873.2	1869.5	1882.8	1850.5	1841.0	1798.7	1792.1	1770.2	1748.6	1726.3
12.5°	1925.0	1895.2	1892.3	1900.6	1864.1	1846.8	1798.7	1785.9	1753.6	1723.4	1706.0
15°	1946.1	1915.5	1907.6	1911.7	1869.9	1846.8	1792.9	1773.1	1731.7	1691.9	1671.6
17.5°	1961.0	1931.6	1923.8	1923.3	1872.8	1839.7	1780.5	1753.2	1703.5	1655.5	1635.2
20°	1975.9	1946.5	1936.6	1929.1	1872.0	1830.2	1762.3	1725.5	1667.5	1613.7	1596.7
22.5°	1983.4	1953.1	1942.4	1931.2	1866.6	1812.8	1739.9	1693.2	1626.9	1562.8	1548.7
25°	1984.6	1953.6	1942.0	1925.8	1855.9	1792.1	1711.0	1654.3	1580.2	1508.9	1496.9
27.5°	1981.3	1947.4	1935.8	1916.3	1839.7	1766.9	1676.6	1610.0	1530.5	1451.8	1439.0
30°	1969.7	1935.3	1924.2	1898.9	1816.9	1735.8	1638.9	1560.7	1475.4	1391.8	1380.6
32.5°	1946.5	1913.0	1903.9	1878.6	1792.1	1699.8	1595.1	1507.7	1414.6	1334.7	1318.1
35°	1912.6	1879.0	1873.2	1846.8	1757.3	1656.7	1547.0	1449.7	1350.0	1268.4	1252.3
37.5°	1868.3	1840.1	1831.4	1805.4	1716.4	1607.9	1492.0	1386.8	1284.2	1196.4	1186.5
40°	1812.4	1785.9	1779.3	1756.1	1668.7	1553.7	1432.4	1321.8	1216.3	1134.7	1120.6
42.5°	1748.6	1723.8	1720.1	1696.1	1610.0	1493.6	1367.8	1254.4	1145.5	1066.8	1052.7
45°	1676.2	1652.2	1651.4	1628.6	1545.8	1427.0	1299.9	1186.0	1076.3	994.8	987.3
47.5°	1596.3	1574.8	1574.8	1553.7	1474.2	1353.7	1229.9	1114.8	1006.8	934.8	921.5
50°	1509.4	1489.1	1482.9	1472.5	1395.1	1273.8	1156.2	1045.3	938.1	869.4	856.5
52.5°	1416.6	1399.2	1403.4	1384.3	1309.4	1190.6	1081.7	967.1	868.9	806.4	793.6
55°	1318.9	1294.1	1297.8	1290.8	1220.0	1104.9	998.1	902.5	801.0	742.3	730.3
57.5°	1217.5	1185.2	1198.5	1194.3	1124.8	1017.1	921.5	829.2	733.6	679.3	667.7
60°	1113.6	1082.6	1096.2	1092.5	1027.1	929.4	842.4	756.8	666.5	617.2	605.6
62.5°	1006.8	978.2	990.6	987.8	927.7	839.5	763.8	685.1	599.0	554.7	544.0
65°	899.2	871.8	883.0	880.9	825.5	758.4	683.1	611.0	531.1	492.6	481.9
67.5°	789.0	763.8	774.1	774.1	723.2	659.1	601.9	536.1	464.5	431.4	421.4
70°	679.8	656.2	665.3	664.4	621.4	569.2	520.0	461.2	397.0	369.7	361.4
72.5°	569.6	548.9	557.2	556.4	520.4	486.8	438.0	387.1	331.2	309.2	301.8
75°	462.8	443.4	451.2	450.4	421.0	389.6	356.8	314.6	266.6	251.3	243.8
77.5°	361.0	341.1	347.7	347.7	326.2	303.4	277.4	244.7	210.7	194.2	188.8
80°	263.3	253.8	250.5	250.9	236.4	221.5	208.2	176.8	151.9	140.8	137.0
82.5°	173.0	165.2	161.9	162.7	154.4	145.3	137.0	115.1	98.5	91.9	89.8
85°	91.9	86.1	83.2	85.3	83.6	78.7	74.5	59.6	49.3	46.8	45.5
87.5°	29.0	25.3	23.2	30.6	26.1	23.2	22.4	17.8	13.7	13.7	13.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1772.2	1772.2	1756.1	1752.4	1750.7	1752.8	1736.6	1733.7	1756.9	1749.1	1731.3
5°	1758.2	1757.3	1734.6	1730.4	1730.4	1727.9	1709.7	1705.6	1728.8	1722.1	1702.7
7.5°	1740.8	1738.3	1711.4	1708.5	1704.3	1702.7	1682.4	1679.5	1699.4	1695.2	1677.0
10°	1719.7	1717.2	1685.3	1683.2	1678.7	1675.4	1656.3	1654.3	1674.5	1667.9	1653.4
12.5°	1691.9	1687.4	1654.7	1652.6	1648.9	1647.6	1629.0	1628.2	1650.5	1643.9	1628.6
15°	1655.5	1651.8	1615.3	1616.2	1616.6	1616.6	1601.7	1600.9	1622.8	1619.9	1603.3
17.5°	1615.3	1610.4	1575.6	1578.1	1581.0	1584.3	1572.7	1574.8	1598.0	1594.2	1579.3
20°	1569.8	1564.8	1530.9	1537.9	1544.1	1550.8	1543.3	1549.1	1570.6	1569.0	1557.8
22.5°	1518.9	1513.9	1482.5	1493.2	1503.6	1516.0	1512.7	1519.3	1542.1	1541.7	1531.7
25°	1456.8	1458.0	1430.3	1443.5	1460.9	1478.3	1479.6	1490.3	1515.6	1513.1	1504.0
27.5°	1398.8	1400.5	1371.1	1393.4	1416.6	1439.0	1444.4	1459.3	1484.9	1482.9	1475.0
30°	1338.0	1340.0	1311.5	1342.1	1370.3	1397.6	1409.2	1429.5	1455.5	1455.5	1447.3
32.5°	1274.6	1278.4	1248.6	1289.5	1322.2	1354.1	1374.4	1395.5	1425.3	1424.5	1417.5
35°	1209.6	1213.8	1186.5	1238.6	1271.3	1310.2	1335.5	1363.6	1390.1	1390.6	1385.2
37.5°	1143.4	1148.4	1123.5	1180.7	1217.9	1263.9	1296.2	1324.3	1353.7	1355.4	1350.4
40°	1077.6	1083.0	1061.4	1116.5	1163.7	1215.0	1252.3	1285.4	1317.7	1318.5	1315.2
42.5°	1011.8	1017.6	1001.4	1055.2	1108.6	1163.7	1207.6	1245.2	1278.4	1280.4	1276.7
45°	947.6	952.6	941.0	999.8	1051.1	1111.1	1161.6	1204.3	1237.8	1240.7	1239.4
47.5°	883.8	888.4	878.0	931.9	991.1	1054.8	1113.2	1160.4	1196.0	1199.3	1198.5
50°	821.3	825.1	813.9	870.2	929.0	996.9	1057.7	1112.4	1152.1	1155.4	1155.0
52.5°	759.2	763.0	753.4	812.6	866.0	937.7	1003.9	1063.1	1102.4	1107.4	1108.2
55°	699.2	700.9	693.4	750.1	801.9	876.8	953.0	1010.5	1049.8	1054.0	1056.5
57.5°	639.2	639.6	633.4	687.6	737.3	813.9	893.8	954.2	991.5	995.6	999.3
60°	579.6	579.2	572.1	624.7	672.3	748.1	831.3	891.3	927.3	931.0	936.0
62.5°	520.4	519.1	512.9	561.4	606.1	681.0	764.6	822.6	856.9	859.4	866.0
65°	461.6	460.3	454.5	499.3	539.8	611.4	693.4	748.5	779.5	782.8	781.6
67.5°	403.6	401.1	396.6	436.7	473.6	539.8	618.5	671.1	696.7	699.6	707.5
70°	345.7	342.8	332.4	375.1	407.4	466.6	539.8	586.6	608.1	611.0	609.8
72.5°	288.5	285.6	274.5	313.8	341.1	392.9	458.3	497.2	515.8	518.3	518.3
75°	233.1	231.4	224.4	254.2	277.0	319.2	374.6	406.9	421.4	424.3	423.5
77.5°	179.7	178.4	171.4	197.1	214.9	246.3	291.0	316.3	327.0	330.4	337.4
80°	128.7	128.3	117.2	142.4	150.3	176.8	209.5	228.9	234.7	239.3	244.2
82.5°	82.4	82.8	71.6	93.1	96.5	113.4	133.7	145.7	149.9	153.6	157.3
85°	40.2	41.8	35.6	49.3	49.7	58.4	67.1	71.6	73.3	76.2	79.5
87.5°	10.3	12.0	6.6	14.1	12.4	16.1	18.6	19.9	19.5	21.5	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

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1737.1	1750.3	1743.7	1765.2	1773.5	1760.2	1783.4	1783.8	1767.3	1786.7	1797.5
5°	1710.1	1723.8	1719.7	1742.0	1752.4	1740.8	1768.9	1774.3	1758.2	1780.1	1797.5
7.5°	1682.8	1699.0	1693.6	1716.4	1728.8	1719.7	1749.9	1758.6	1746.2	1770.2	1793.4
10°	1659.2	1672.9	1667.1	1691.1	1701.9	1694.4	1724.2	1740.4	1728.8	1758.2	1785.9
12.5°	1636.0	1647.2	1640.6	1660.5	1670.8	1661.3	1697.7	1712.6	1704.3	1735.0	1770.6
15°	1606.2	1618.7	1609.5	1627.3	1635.2	1626.9	1656.7	1682.4	1672.1	1705.6	1744.9
17.5°	1583.5	1590.5	1578.1	1592.2	1596.7	1585.5	1615.8	1641.0	1633.6	1670.0	1715.5
20°	1558.2	1564.0	1546.6	1554.5	1554.1	1540.0	1567.7	1592.6	1587.6	1627.8	1679.5
22.5°	1530.1	1533.0	1512.7	1514.3	1513.5	1490.3	1515.2	1540.4	1538.3	1578.9	1636.9
25°	1500.3	1500.7	1474.6	1473.8	1464.7	1437.3	1459.3	1487.8	1481.6	1525.5	1586.4
27.5°	1470.9	1466.7	1435.3	1427.8	1413.3	1380.6	1400.1	1425.7	1422.0	1465.1	1532.5
30°	1439.4	1434.0	1395.5	1381.9	1360.7	1323.1	1339.2	1363.2	1365.3	1403.0	1473.8
32.5°	1409.6	1395.9	1353.3	1333.4	1306.9	1263.0	1271.7	1296.2	1299.5	1337.6	1410.4
35°	1371.1	1362.0	1309.4	1275.5	1249.4	1201.4	1210.5	1227.4	1232.4	1269.7	1343.8
37.5°	1334.7	1320.2	1264.3	1222.9	1189.4	1138.9	1141.3	1158.7	1163.7	1201.4	1274.6
40°	1297.0	1276.3	1216.3	1167.8	1129.3	1076.3	1073.4	1091.7	1095.4	1132.2	1198.5
42.5°	1256.8	1232.0	1164.5	1111.5	1067.2	1013.4	1007.6	1023.4	1027.5	1063.5	1128.5
45°	1216.3	1186.5	1111.5	1053.6	1005.1	950.1	944.3	956.3	962.5	996.4	1059.0
47.5°	1173.2	1138.4	1056.9	992.3	942.2	887.2	880.1	892.1	897.1	930.6	989.8
50°	1128.1	1085.9	1000.6	929.4	879.7	825.5	815.1	829.2	833.8	865.2	923.2
52.5°	1078.4	1031.6	940.6	866.0	816.4	764.6	752.2	765.9	771.2	801.9	855.3
55°	1025.8	975.3	880.1	807.7	753.9	703.3	693.0	698.4	710.0	739.0	788.6
57.5°	966.6	916.5	816.4	742.7	690.9	642.5	633.8	638.8	649.5	677.7	722.4
60°	903.7	850.7	751.4	677.7	627.6	581.6	573.8	578.3	589.9	615.6	657.0
62.5°	841.6	782.0	684.3	611.0	565.5	522.9	520.8	519.1	529.9	554.7	591.2
65°	766.3	709.1	614.3	544.8	503.4	464.9	456.6	460.3	470.7	493.5	531.5
67.5°	685.5	633.8	542.7	478.6	441.7	407.4	400.3	402.0	412.7	432.6	465.7
70°	599.9	554.3	469.5	411.9	380.9	348.6	344.0	344.4	354.8	372.2	401.1
72.5°	510.0	469.0	395.3	346.1	320.4	297.2	293.1	288.1	297.6	312.6	337.4
75°	418.5	382.5	321.7	281.5	261.2	241.8	238.0	233.1	242.6	255.4	274.9
77.5°	326.2	297.2	250.0	219.0	203.3	188.8	185.5	180.1	189.6	199.1	214.4
80°	236.0	214.9	186.7	154.0	148.6	139.1	135.8	130.0	139.1	145.3	156.9
82.5°	152.3	138.3	122.1	99.4	98.5	91.5	89.8	83.2	91.5	95.2	103.9
85°	77.0	70.4	66.2	50.5	52.2	47.6	47.2	40.2	46.8	48.4	53.4
87.5°	21.9	23.2	20.7	12.4	15.7	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: P838009

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7	1774.7
2.5°	1776.4	1783.4	1785.1	1784.7	1789.2	1814.1	1805.8	1814.1
5°	1780.5	1796.2	1800.4	1806.2	1813.6	1841.8	1832.7	1842.6
7.5°	1783.0	1806.6	1815.7	1826.9	1838.9	1870.4	1862.9	1872.8
10°	1783.0	1813.6	1826.9	1845.5	1861.7	1898.1	1891.1	1902.6
12.5°	1775.6	1814.9	1833.5	1859.6	1880.3	1919.6	1916.7	1925.0
15°	1760.2	1808.7	1834.3	1867.9	1893.5	1937.4	1936.2	1946.1
17.5°	1739.5	1797.9	1829.0	1871.2	1903.5	1952.7	1955.6	1961.0
20°	1713.5	1777.6	1818.2	1869.9	1910.5	1964.7	1968.5	1975.9
22.5°	1679.1	1753.2	1802.0	1864.6	1911.3	1969.7	1976.3	1983.4
25°	1638.5	1723.8	1780.9	1854.2	1907.2	1969.3	1978.4	1984.6
27.5°	1592.2	1685.7	1754.0	1837.6	1895.6	1962.7	1973.8	1981.3
30°	1538.3	1645.1	1723.4	1816.1	1879.9	1950.2	1962.3	1969.7
32.5°	1482.9	1600.4	1687.0	1788.4	1857.1	1930.4	1940.7	1946.5
35°	1422.4	1546.2	1643.1	1752.8	1827.7	1898.5	1906.4	1912.6
37.5°	1356.6	1487.4	1593.0	1712.6	1786.3	1854.2	1861.2	1868.3
40°	1288.7	1425.7	1536.7	1663.4	1737.1	1800.0	1807.4	1812.4
42.5°	1220.4	1357.4	1476.7	1605.4	1678.7	1739.1	1743.7	1748.6
45°	1151.3	1286.6	1409.2	1541.2	1613.7	1670.4	1672.1	1676.2
47.5°	1080.9	1213.4	1335.1	1468.0	1539.6	1591.3	1593.0	1596.3
50°	1010.1	1140.1	1256.0	1388.9	1458.9	1513.5	1506.1	1509.4
52.5°	940.6	1063.1	1181.5	1303.6	1372.7	1421.2	1423.3	1416.6
55°	872.3	987.8	1096.6	1214.2	1280.0	1317.7	1316.4	1318.9
57.5°	803.1	911.6	1011.3	1119.0	1183.1	1218.8	1226.2	1217.5
60°	732.7	834.6	924.0	1021.3	1083.4	1113.2	1121.9	1113.6
62.5°	662.8	756.3	837.5	922.3	979.9	1016.7	1015.9	1006.8
65°	592.8	677.7	750.1	822.2	872.3	909.1	907.4	899.2
67.5°	528.2	598.2	663.2	721.6	765.0	790.3	799.0	789.0
70°	457.0	517.5	574.6	621.4	657.4	680.2	688.4	679.8
72.5°	385.8	437.2	477.3	522.4	550.2	569.2	577.9	569.6
75°	315.5	357.7	390.4	425.6	445.0	461.2	471.1	462.8
77.5°	247.1	279.8	305.9	331.6	354.0	357.7	366.4	361.0
80°	182.2	205.7	224.8	241.8	257.9	259.6	266.6	263.3
82.5°	121.3	137.0	142.0	159.8	170.1	168.5	175.5	173.0
85°	64.2	73.7	82.4	87.8	93.6	88.2	94.4	91.9
87.5°	21.5	22.8	19.9	28.2	31.0	26.5	30.2	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)