

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: P837991

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-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: P837991
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-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

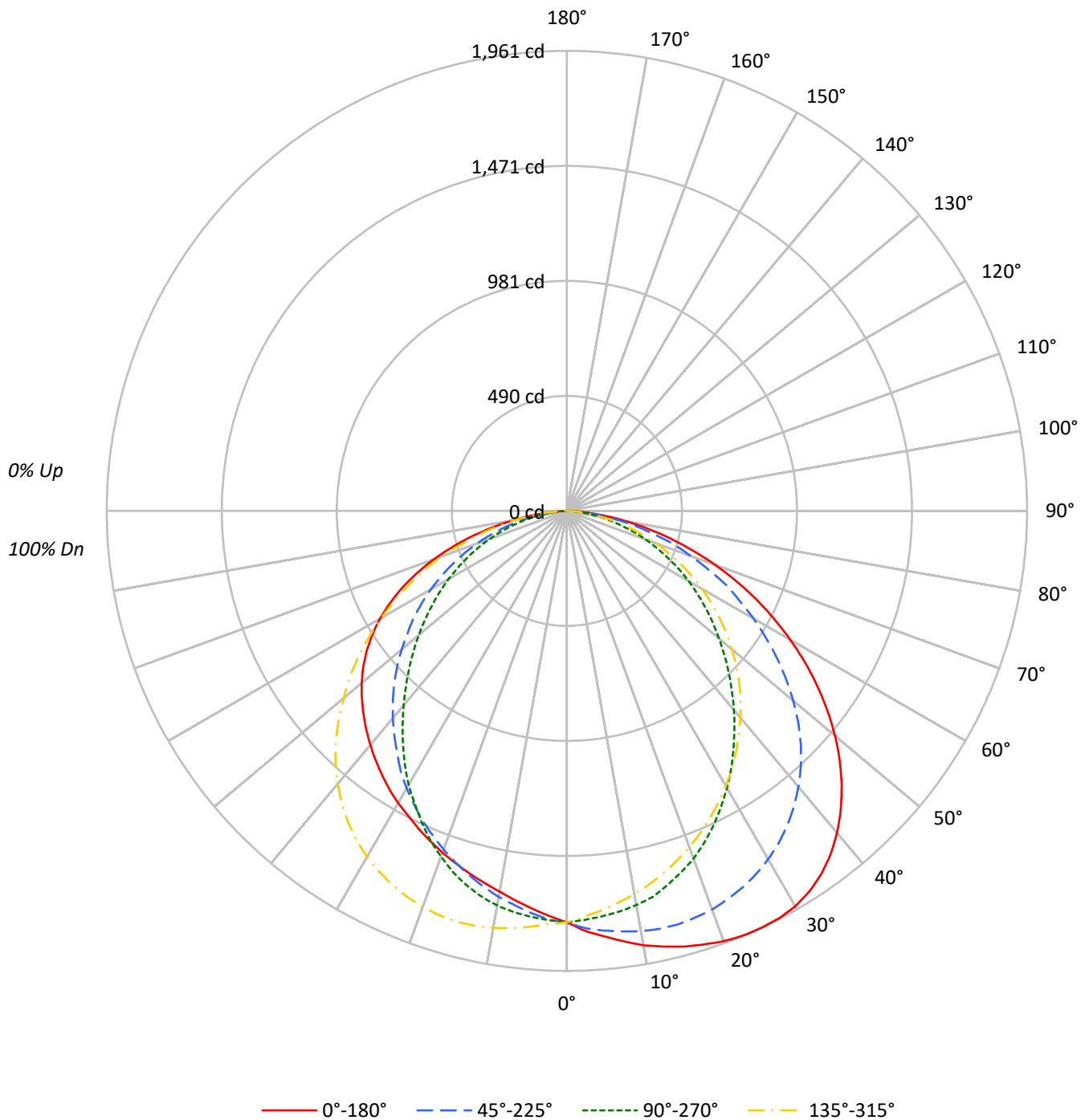
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5144.8 lumens
Efficiency: N/A
Efficacy: 78.0 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°	4719	4719	4719	4719
5°	4918	4685	4596	4693
10°	5137	4661	4503	4668
15°	5357	4601	4459	4603
20°	5591	4518	4440	4492
25°	5823	4392	4439	4347
30°	6048	4239	4469	4192
35°	6208	4065	4514	4000
40°	6291	3890	4577	3802
45°	6303	3713	4665	3619
50°	6244	3543	4780	3449
55°	6114	3385	4886	3291
60°	5922	3221	4951	3137
65°	5657	3032	4925	2961
70°	5285	2810	4751	2758
75°	4755	2505	4360	2492
80°	4032	2098	3663	2129
85°	2803	1389	2325	1426

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	3.2
10°-20°	482.1	9.4
20°-30°	738.9	14.4
30°-40°	898.4	17.5
40°-50°	934.0	18.2
50°-60°	843.6	16.4
60°-70°	641.4	12.5
70°-80°	357.6	7.0
80°-90°	82.3	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°	1387.5	27.0
0°-40°	2285.9	44.4
0°-60°	4063.5	79.0
0°-90°	5144.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5144.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1754	1754	1754	1754	1754	
5°	1821	1734	1702	1737	1821	176
15°	1923	1652	1601	1652	1923	545
25°	1961	1479	1495	1464	1961	906
35°	1890	1237	1374	1218	1890	1180
45°	1656	976	1226	951	1656	1275
55°	1303	722	1041	702	1303	1163
65°	888	476	774	465	888	878
75°	457	241	419	240	457	486
85°	91	45	75	46	91	114
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°	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6
2.5°	1792.5	1766.3	1766.7	1789.6	1772.0	1780.6	1756.0	1765.5	1762.6	1764.6	1744.6
5°	1820.7	1792.5	1792.0	1811.7	1792.0	1795.7	1764.6	1770.8	1761.8	1756.0	1734.4
7.5°	1850.5	1822.3	1819.5	1836.6	1810.9	1808.0	1773.6	1773.6	1757.3	1743.0	1722.5
10°	1880.0	1850.9	1847.3	1860.4	1828.5	1819.0	1777.3	1770.8	1749.1	1727.8	1705.7
12.5°	1902.1	1872.6	1869.8	1877.9	1841.9	1824.8	1777.3	1764.6	1732.7	1702.9	1685.7
15°	1922.9	1892.7	1884.9	1889.0	1847.7	1824.8	1771.6	1752.0	1711.1	1671.8	1651.7
17.5°	1937.7	1908.6	1900.9	1900.4	1850.5	1817.8	1759.3	1732.3	1683.2	1635.8	1615.7
20°	1952.4	1923.4	1913.5	1906.2	1849.7	1808.4	1741.3	1704.9	1647.7	1594.5	1577.7
22.5°	1959.8	1929.9	1919.3	1908.2	1844.4	1791.2	1719.2	1673.0	1607.6	1544.2	1530.3
25°	1961.0	1930.3	1918.9	1902.9	1833.8	1770.8	1690.6	1634.6	1561.3	1491.0	1479.1
27.5°	1957.7	1924.2	1912.7	1893.5	1817.8	1745.8	1656.6	1590.8	1512.3	1434.5	1421.9
30°	1946.3	1912.3	1901.3	1876.3	1795.3	1715.1	1619.4	1542.1	1457.9	1375.2	1364.2
32.5°	1923.4	1890.2	1881.2	1856.3	1770.8	1679.6	1576.1	1489.8	1397.7	1318.8	1302.4
35°	1889.8	1856.7	1850.9	1824.8	1736.4	1637.0	1528.6	1432.5	1333.9	1253.3	1237.4
37.5°	1846.0	1818.2	1809.6	1783.9	1695.9	1588.7	1474.2	1370.3	1268.9	1182.2	1172.3
40°	1790.8	1764.6	1758.1	1735.2	1648.9	1535.2	1415.3	1306.1	1201.8	1121.2	1107.3
42.5°	1727.8	1703.3	1699.6	1675.9	1590.8	1475.9	1351.5	1239.4	1131.8	1054.1	1040.2
45°	1656.2	1632.5	1631.7	1609.2	1527.4	1410.0	1284.4	1171.9	1063.5	982.9	975.6
47.5°	1577.3	1556.0	1556.0	1535.2	1456.6	1337.6	1215.3	1101.6	994.8	923.6	910.5
50°	1491.4	1471.4	1465.2	1455.0	1378.5	1258.6	1142.5	1032.8	926.9	859.0	846.3
52.5°	1399.8	1382.6	1386.7	1367.9	1293.8	1176.4	1068.8	955.5	858.6	796.8	784.1
55°	1303.2	1278.7	1282.4	1275.4	1205.5	1091.8	986.2	891.7	791.5	733.4	721.6
57.5°	1203.0	1171.1	1184.2	1180.1	1111.4	1005.0	910.5	819.3	724.8	671.3	659.8
60°	1100.3	1069.7	1083.2	1079.5	1014.9	918.3	832.4	747.7	658.6	609.9	598.4
62.5°	994.8	966.6	978.9	976.0	916.7	829.6	754.7	677.0	591.9	548.1	537.5
65°	888.5	861.5	872.5	870.5	815.6	749.4	674.9	603.8	524.8	486.8	476.1
67.5°	779.6	754.7	764.9	764.9	714.6	651.2	594.8	529.7	459.0	426.2	416.4
70°	671.7	648.3	657.3	656.5	614.0	562.4	513.8	455.7	392.3	365.3	357.1
72.5°	562.9	542.4	550.6	549.8	514.2	481.0	432.8	382.5	327.2	305.6	298.2
75°	457.3	438.1	445.9	445.0	416.0	384.9	352.6	310.9	263.4	248.3	240.9
77.5°	356.7	337.1	343.6	343.6	322.3	299.8	274.1	241.7	208.2	191.8	186.5
80°	260.2	250.7	247.5	247.9	233.6	218.8	205.8	174.7	150.1	139.1	135.4
82.5°	171.0	163.2	159.9	160.8	152.6	143.6	135.4	113.7	97.4	90.8	88.8
85°	90.8	85.1	82.2	84.3	82.6	77.7	73.6	58.9	48.7	46.2	45.0
87.5°	28.6	25.0	22.9	30.3	25.8	22.9	22.1	17.6	13.5	13.5	13.1
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°	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6
2.5°	1751.1	1751.1	1735.2	1731.5	1729.9	1731.9	1716.0	1713.1	1736.0	1728.2	1710.6
5°	1737.2	1736.4	1713.9	1709.8	1709.8	1707.4	1689.4	1685.3	1708.2	1701.6	1682.4
7.5°	1720.1	1717.6	1691.0	1688.1	1684.1	1682.4	1662.4	1659.5	1679.1	1675.1	1657.1
10°	1699.2	1696.7	1665.2	1663.2	1658.7	1655.4	1636.6	1634.6	1654.6	1648.1	1633.7
12.5°	1671.8	1667.3	1635.0	1632.9	1629.2	1628.0	1609.6	1608.8	1630.9	1624.3	1609.2
15°	1635.8	1632.1	1596.1	1596.9	1597.3	1597.3	1582.6	1581.8	1603.5	1600.6	1584.2
17.5°	1596.1	1591.2	1556.8	1559.3	1562.2	1565.4	1554.0	1556.0	1578.9	1575.2	1560.5
20°	1551.1	1546.2	1512.7	1519.6	1525.8	1532.3	1524.9	1530.7	1551.9	1550.3	1539.3
22.5°	1500.8	1495.9	1464.8	1475.4	1485.7	1497.9	1494.7	1501.2	1523.7	1523.3	1513.5
25°	1439.4	1440.7	1413.3	1426.4	1443.5	1460.7	1461.9	1472.6	1497.5	1495.1	1486.1
27.5°	1382.2	1383.8	1354.8	1376.9	1399.8	1421.9	1427.2	1441.9	1467.3	1465.2	1457.4
30°	1322.0	1324.1	1295.9	1326.1	1354.0	1381.0	1392.4	1412.4	1438.2	1438.2	1430.0
32.5°	1259.5	1263.1	1233.7	1274.2	1306.5	1338.0	1358.0	1378.9	1408.4	1407.5	1400.6
35°	1195.2	1199.3	1172.3	1223.9	1256.2	1294.6	1319.6	1347.4	1373.6	1374.0	1368.7
37.5°	1129.8	1134.7	1110.2	1166.6	1203.4	1248.8	1280.7	1308.5	1337.6	1339.2	1334.3
40°	1064.8	1070.1	1048.8	1103.2	1149.8	1200.6	1237.4	1270.1	1302.0	1302.8	1299.5
42.5°	999.7	1005.4	989.5	1042.7	1095.4	1149.8	1193.2	1230.4	1263.1	1265.2	1261.5
45°	936.3	941.2	929.8	987.9	1038.6	1097.9	1147.8	1189.9	1223.1	1225.9	1224.7
47.5°	873.3	877.8	867.6	920.8	979.3	1042.3	1099.9	1146.6	1181.7	1185.0	1184.2
50°	811.6	815.2	804.2	859.8	917.9	985.0	1045.1	1099.1	1138.4	1141.7	1141.2
52.5°	750.2	753.9	744.5	803.0	855.7	926.5	991.9	1050.4	1089.3	1094.2	1095.0
55°	690.9	692.5	685.2	741.2	792.3	866.4	941.6	998.5	1037.3	1041.4	1043.9
57.5°	631.6	632.0	625.8	679.4	728.5	804.2	883.1	942.9	979.7	983.8	987.4
60°	572.7	572.3	565.3	617.3	664.3	739.2	821.4	880.7	916.3	920.0	924.9
62.5°	514.2	512.9	506.8	554.7	598.8	672.9	755.5	812.8	846.7	849.2	855.7
65°	456.1	454.9	449.1	493.3	533.4	604.2	685.2	739.6	770.2	773.5	772.3
67.5°	398.8	396.4	391.9	431.5	468.0	533.4	611.1	663.1	688.4	691.3	699.1
70°	341.6	338.7	328.5	370.6	402.5	461.0	533.4	579.6	600.9	603.8	602.5
72.5°	285.1	282.2	271.2	310.1	337.1	388.2	452.8	491.3	509.7	512.1	512.1
75°	230.3	228.7	221.7	251.2	273.7	315.4	370.2	402.1	416.4	419.3	418.5
77.5°	177.5	176.3	169.3	194.7	212.3	243.4	287.6	312.5	323.1	326.4	333.4
80°	127.2	126.8	115.8	140.7	148.5	174.7	207.0	226.2	231.9	236.4	241.3
82.5°	81.4	81.8	70.8	92.0	95.3	112.1	132.1	144.0	148.1	151.8	155.4
85°	39.7	41.3	35.2	48.7	49.1	57.7	66.3	70.8	72.4	75.3	78.5
87.5°	10.2	11.9	6.5	13.9	12.3	16.0	18.4	19.6	19.2	21.3	22.5
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°	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6
2.5°	1716.4	1729.5	1722.9	1744.2	1752.4	1739.3	1762.2	1762.6	1746.2	1765.5	1776.1
5°	1689.8	1703.3	1699.2	1721.3	1731.5	1720.1	1747.9	1753.2	1737.2	1758.9	1776.1
7.5°	1662.8	1678.7	1673.4	1695.9	1708.2	1699.2	1729.1	1737.6	1725.4	1749.1	1772.0
10°	1639.5	1653.0	1647.2	1671.0	1681.6	1674.2	1703.7	1719.6	1708.2	1737.2	1764.6
12.5°	1616.6	1627.6	1621.1	1640.7	1650.9	1641.5	1677.5	1692.2	1684.1	1714.3	1749.5
15°	1587.1	1599.4	1590.4	1608.0	1615.7	1607.6	1637.0	1662.4	1652.2	1685.3	1724.1
17.5°	1564.6	1571.6	1559.3	1573.2	1577.7	1566.7	1596.5	1621.5	1614.1	1650.1	1695.1
20°	1539.7	1545.4	1528.2	1536.0	1535.6	1521.7	1549.1	1573.6	1568.7	1608.4	1659.5
22.5°	1511.8	1514.7	1494.7	1496.3	1495.5	1472.6	1497.1	1522.1	1520.0	1560.1	1617.4
25°	1482.4	1482.8	1457.0	1456.2	1447.2	1420.2	1441.9	1470.1	1464.0	1507.3	1567.5
27.5°	1453.4	1449.3	1418.2	1410.8	1396.5	1364.2	1383.4	1408.8	1405.1	1447.6	1514.3
30°	1422.3	1416.9	1378.9	1365.4	1344.5	1307.3	1323.3	1347.0	1349.0	1386.3	1456.2
32.5°	1392.8	1379.3	1337.2	1317.5	1291.4	1248.0	1256.6	1280.7	1284.0	1321.6	1393.6
35°	1354.8	1345.8	1293.8	1260.3	1234.5	1187.1	1196.1	1212.8	1217.7	1254.6	1327.8
37.5°	1318.8	1304.5	1249.2	1208.3	1175.2	1125.3	1127.7	1144.9	1149.8	1187.1	1259.5
40°	1281.6	1261.1	1201.8	1153.9	1115.9	1063.5	1060.7	1078.7	1082.3	1118.8	1184.2
42.5°	1241.9	1217.3	1150.7	1098.3	1054.5	1001.4	995.6	1011.2	1015.3	1050.8	1115.1
45°	1201.8	1172.3	1098.3	1041.0	993.2	938.8	933.0	944.9	951.0	984.6	1046.3
47.5°	1159.2	1124.9	1044.3	980.5	931.0	876.6	869.6	881.5	886.4	919.5	978.0
50°	1114.7	1072.9	988.7	918.3	869.2	815.6	805.4	819.3	823.8	854.9	912.2
52.5°	1065.6	1019.4	929.4	855.7	806.6	755.5	743.2	756.7	762.1	792.3	845.1
55°	1013.6	963.7	869.6	798.1	744.9	695.0	684.7	690.1	701.5	730.2	779.2
57.5°	955.1	905.6	806.6	733.8	682.7	634.8	626.3	631.2	641.8	669.6	713.8
60°	893.0	840.6	742.4	669.6	620.1	574.7	566.9	571.4	582.9	608.3	649.2
62.5°	831.6	772.7	676.2	603.8	558.8	516.6	514.6	512.9	523.6	548.1	584.1
65°	757.2	700.7	607.0	538.3	497.4	459.4	451.2	454.9	465.1	487.6	525.2
67.5°	677.4	626.3	536.3	472.9	436.5	402.5	395.6	397.2	407.8	427.5	460.2
70°	592.7	547.7	463.9	407.0	376.3	344.4	339.9	340.3	350.6	367.7	396.4
72.5°	503.9	463.5	390.6	342.0	316.6	293.7	289.6	284.7	294.1	308.8	333.4
75°	413.5	378.0	317.8	278.2	258.1	238.9	235.2	230.3	239.7	252.4	271.6
77.5°	322.3	293.7	247.1	216.4	200.8	186.5	183.3	177.9	187.3	196.8	211.9
80°	233.2	212.3	184.5	152.2	146.8	137.4	134.2	128.4	137.4	143.6	155.0
82.5°	150.5	136.6	120.7	98.2	97.4	90.4	88.8	82.2	90.4	94.1	102.7
85°	76.1	69.5	65.4	49.9	51.5	47.0	46.6	39.7	46.2	47.9	52.8
87.5°	21.7	22.9	20.5	12.3	15.5	14.7	14.7	10.6	14.7	14.7	16.8
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: P837991

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6	1753.6
2.5°	1755.2	1762.2	1763.8	1763.4	1767.9	1792.5	1784.3	1792.5
5°	1759.3	1774.9	1779.0	1784.7	1792.0	1819.9	1810.9	1820.7
7.5°	1761.8	1785.1	1794.1	1805.1	1817.0	1848.1	1840.7	1850.5
10°	1761.8	1792.0	1805.1	1823.5	1839.5	1875.5	1868.5	1880.0
12.5°	1754.4	1793.3	1811.7	1837.4	1857.9	1896.8	1893.9	1902.1
15°	1739.3	1787.1	1812.5	1845.6	1871.0	1914.4	1913.1	1922.9
17.5°	1718.8	1776.5	1807.2	1848.9	1880.8	1929.5	1932.3	1937.7
20°	1693.1	1756.5	1796.5	1847.7	1887.8	1941.3	1945.0	1952.4
22.5°	1659.1	1732.3	1780.6	1842.4	1888.6	1946.3	1952.8	1959.8
25°	1619.0	1703.3	1759.7	1832.1	1884.5	1945.8	1954.8	1961.0
27.5°	1573.2	1665.6	1733.1	1815.8	1873.0	1939.3	1950.3	1957.7
30°	1520.0	1625.6	1702.9	1794.5	1857.5	1927.0	1938.9	1946.3
32.5°	1465.2	1581.4	1666.9	1767.1	1835.0	1907.4	1917.6	1923.4
35°	1405.5	1527.8	1623.5	1731.9	1806.0	1875.9	1883.7	1889.8
37.5°	1340.5	1469.7	1574.0	1692.2	1765.0	1832.1	1839.1	1846.0
40°	1273.4	1408.8	1518.4	1643.6	1716.4	1778.5	1785.9	1790.8
42.5°	1205.9	1341.3	1459.1	1586.3	1658.7	1718.4	1722.9	1727.8
45°	1137.6	1271.3	1392.4	1522.9	1594.5	1650.5	1652.2	1656.2
47.5°	1068.0	1198.9	1319.2	1450.5	1521.3	1572.4	1574.0	1577.3
50°	998.1	1126.5	1241.1	1372.4	1441.5	1495.5	1488.1	1491.4
52.5°	929.4	1050.4	1167.4	1288.1	1356.4	1404.3	1406.3	1399.8
55°	861.9	976.0	1083.6	1199.7	1264.8	1302.0	1300.8	1303.2
57.5°	793.6	900.7	999.3	1105.7	1169.1	1204.2	1211.6	1203.0
60°	724.0	824.6	913.0	1009.1	1070.5	1099.9	1108.5	1100.3
62.5°	654.9	747.3	827.5	911.4	968.2	1004.6	1003.8	994.8
65°	585.8	669.6	741.2	812.4	861.9	898.3	896.6	888.5
67.5°	521.9	591.1	655.3	713.0	755.9	780.9	789.5	779.6
70°	451.6	511.3	567.8	614.0	649.6	672.1	680.2	671.7
72.5°	381.2	432.0	471.6	516.2	543.6	562.4	571.0	562.9
75°	311.7	353.4	385.7	420.5	439.7	455.7	465.5	457.3
77.5°	244.2	276.5	302.3	327.6	349.7	353.4	362.0	356.7
80°	180.0	203.3	222.1	238.9	254.8	256.5	263.4	260.2
82.5°	119.9	135.4	140.3	157.9	168.1	166.5	173.4	171.0
85°	63.4	72.8	81.4	86.7	92.4	87.1	93.3	90.8
87.5°	21.3	22.5	19.6	27.8	30.7	26.2	29.9	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)