

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: P837772

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2HI-20-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837772
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-LD4-2HI-20-120-EDD-90
Description: 1FT 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

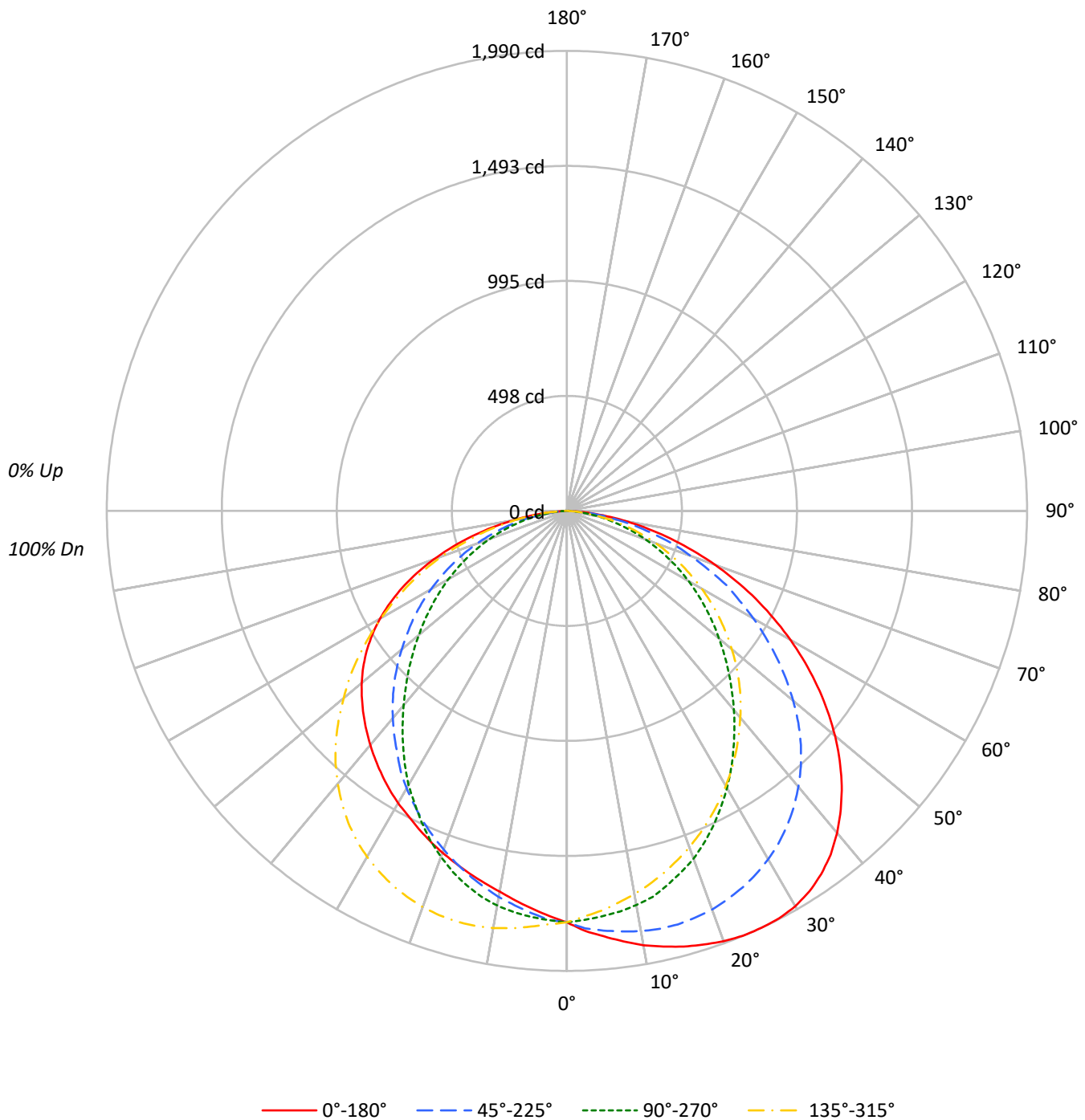
Lumens per Lamp: N/A
Luminaire Lumens: 5221.3 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4789	4789	4789	4789
5°	4991	4755	4665	4763
10°	5214	4730	4570	4737
15°	5437	4670	4525	4671
20°	5674	4585	4506	4559
25°	5909	4457	4505	4412
30°	6137	4302	4535	4254
35°	6300	4125	4581	4060
40°	6385	3948	4645	3858
45°	6397	3768	4735	3673
50°	6337	3596	4850	3500
55°	6205	3436	4959	3340
60°	6010	3268	5025	3184
65°	5741	3077	4998	3005
70°	5364	2851	4821	2799
75°	4825	2542	4424	2530
80°	4091	2129	3718	2162
85°	2847	1411	2359	1448

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	3.2
10°-20°	489.3	9.4
20°-30°	749.9	14.4
30°-40°	911.8	17.5
40°-50°	947.9	18.2
50°-60°	856.2	16.4
60°-70°	650.9	12.5
70°-80°	362.9	7.0
80°-90°	83.5	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°	1408.1	27.0
0°-40°	2319.9	44.4
0°-60°	4124.0	79.0
0°-90°	5221.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5221.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1780	1780	1780	1780	1780	
5°	1848	1760	1727	1763	1848	178
15°	1952	1676	1624	1677	1952	553
25°	1990	1501	1517	1486	1990	919
35°	1918	1256	1394	1236	1918	1198
45°	1681	990	1244	965	1681	1294
55°	1323	732	1057	712	1323	1181
65°	902	483	785	472	902	891
75°	464	244	426	243	464	493
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°	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7
2.5°	1819.1	1792.5	1793.0	1816.2	1798.4	1807.1	1782.2	1791.7	1788.8	1790.9	1770.5
5°	1847.8	1819.1	1818.7	1838.6	1818.7	1822.4	1790.9	1797.1	1788.0	1782.2	1760.2
7.5°	1878.1	1849.4	1846.5	1864.0	1837.8	1834.9	1800.0	1800.0	1783.4	1768.9	1748.1
10°	1908.0	1878.5	1874.7	1888.0	1855.6	1846.1	1803.8	1797.1	1775.1	1753.5	1731.1
12.5°	1930.4	1900.5	1897.6	1905.9	1869.3	1851.9	1803.8	1790.9	1758.5	1728.2	1710.8
15°	1951.5	1920.8	1912.9	1917.1	1875.2	1851.9	1797.9	1778.0	1736.5	1696.7	1676.3
17.5°	1966.5	1937.0	1929.1	1928.7	1878.1	1844.9	1785.5	1758.1	1708.3	1660.1	1639.8
20°	1981.4	1952.0	1942.0	1934.5	1877.2	1835.3	1767.2	1730.3	1672.2	1618.2	1601.2
22.5°	1988.9	1958.6	1947.8	1936.6	1871.8	1817.9	1744.8	1697.9	1631.5	1567.1	1553.0
25°	1990.2	1959.0	1947.4	1931.2	1861.0	1797.1	1715.7	1658.9	1584.6	1513.2	1501.1
27.5°	1986.8	1952.8	1941.2	1921.7	1844.9	1771.8	1681.3	1614.5	1534.8	1455.9	1443.0
30°	1975.2	1940.8	1929.5	1904.2	1822.0	1740.7	1643.5	1565.1	1479.5	1395.7	1384.5
32.5°	1952.0	1918.3	1909.2	1883.9	1797.1	1704.5	1599.5	1511.9	1418.5	1338.4	1321.8
35°	1917.9	1884.3	1878.5	1851.9	1762.2	1661.4	1551.4	1453.8	1353.8	1272.0	1255.8
37.5°	1873.5	1845.3	1836.6	1810.4	1721.1	1612.4	1496.1	1390.7	1287.7	1199.7	1189.8
40°	1817.5	1790.9	1784.2	1761.0	1673.4	1558.0	1436.4	1325.5	1219.7	1137.9	1123.8
42.5°	1753.5	1728.6	1724.9	1700.8	1614.5	1497.8	1371.6	1257.9	1148.7	1069.8	1055.7
45°	1680.9	1656.8	1656.0	1633.1	1550.1	1431.0	1303.5	1189.4	1079.3	997.6	990.1
47.5°	1600.8	1579.2	1579.2	1558.0	1478.3	1357.5	1233.4	1118.0	1009.6	937.4	924.1
50°	1513.6	1493.2	1487.0	1476.6	1399.0	1277.4	1159.5	1048.2	940.7	871.8	858.9
52.5°	1420.6	1403.2	1407.3	1388.2	1313.1	1193.9	1084.7	969.8	871.4	808.7	795.8
55°	1322.6	1297.7	1301.4	1294.4	1223.4	1108.0	1000.9	905.0	803.3	744.3	732.3
57.5°	1220.9	1188.5	1201.8	1197.7	1127.9	1020.0	924.1	831.5	735.6	681.2	669.6
60°	1116.7	1085.6	1099.3	1095.5	1029.9	932.0	844.8	758.9	668.4	619.0	607.3
62.5°	1009.6	981.0	993.4	990.5	930.3	841.9	765.9	687.0	600.7	556.3	545.5
65°	901.7	874.3	885.5	883.4	827.8	760.5	685.0	612.7	532.6	494.0	483.2
67.5°	791.2	765.9	776.3	776.3	725.2	660.9	603.6	537.6	465.8	432.6	422.6
70°	681.7	658.0	667.1	666.3	623.1	570.8	521.4	462.5	398.1	370.7	362.4
72.5°	571.2	550.5	558.8	557.9	521.8	488.2	439.2	388.2	332.1	310.1	302.6
75°	464.1	444.6	452.5	451.7	422.2	390.6	357.8	315.5	267.3	252.0	244.5
77.5°	362.0	342.1	348.7	348.7	327.1	304.3	278.1	245.3	211.3	194.7	189.3
80°	264.0	254.5	251.2	251.6	237.0	222.1	208.8	177.3	152.4	141.1	137.4
82.5°	173.5	165.6	162.3	163.1	154.8	145.7	137.4	115.4	98.8	92.2	90.1
85°	92.2	86.3	83.4	85.5	83.9	78.9	74.7	59.8	49.4	46.9	45.7
87.5°	29.1	25.3	23.2	30.7	26.2	23.2	22.4	17.9	13.7	13.7	13.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7
2.5°	1777.2	1777.2	1761.0	1757.3	1755.6	1757.7	1741.5	1738.6	1761.8	1753.9	1736.1
5°	1763.1	1762.2	1739.4	1735.3	1735.3	1732.8	1714.5	1710.4	1733.6	1727.0	1707.4
7.5°	1745.6	1743.1	1716.2	1713.3	1709.1	1707.4	1687.1	1684.2	1704.1	1700.0	1681.7
10°	1724.5	1722.0	1690.0	1687.9	1683.4	1680.0	1661.0	1658.9	1679.2	1672.6	1658.0
12.5°	1696.7	1692.1	1659.3	1657.2	1653.5	1652.2	1633.6	1632.7	1655.1	1648.5	1633.1
15°	1660.1	1656.4	1619.9	1620.7	1621.1	1621.1	1606.2	1605.3	1627.3	1624.4	1607.8
17.5°	1619.9	1614.9	1580.0	1582.5	1585.4	1588.7	1577.1	1579.2	1602.4	1598.7	1583.7
20°	1574.2	1569.2	1535.2	1542.2	1548.5	1555.1	1547.6	1553.4	1575.0	1573.4	1562.1
22.5°	1523.1	1518.1	1486.6	1497.4	1507.8	1520.2	1516.9	1523.5	1546.4	1546.0	1536.0
25°	1460.9	1462.1	1434.3	1447.6	1465.0	1482.4	1483.7	1494.5	1519.8	1517.3	1508.2
27.5°	1402.7	1404.4	1374.9	1397.3	1420.6	1443.0	1448.4	1463.3	1489.1	1487.0	1479.1
30°	1341.7	1343.8	1315.1	1345.9	1374.1	1401.5	1413.1	1433.5	1459.6	1459.6	1451.3
32.5°	1278.2	1281.9	1252.0	1293.1	1325.9	1357.9	1378.2	1399.4	1429.3	1428.5	1421.4
35°	1213.0	1217.2	1189.8	1242.1	1274.9	1313.9	1339.2	1367.5	1394.0	1394.4	1389.0
37.5°	1146.6	1151.6	1126.7	1184.0	1221.3	1267.4	1299.8	1328.0	1357.5	1359.1	1354.2
40°	1080.6	1086.0	1064.4	1119.6	1166.9	1218.4	1255.8	1289.0	1321.4	1322.2	1318.9
42.5°	1014.6	1020.4	1004.2	1058.2	1111.7	1166.9	1210.9	1248.7	1281.9	1284.0	1280.3
45°	950.2	955.2	943.6	1002.5	1054.0	1114.2	1164.9	1207.6	1241.3	1244.2	1242.9
47.5°	886.3	890.9	880.5	934.5	993.8	1057.8	1116.3	1163.6	1199.3	1202.6	1201.8
50°	823.6	827.4	816.2	872.6	931.6	999.6	1060.7	1115.5	1155.3	1158.6	1158.2
52.5°	761.4	765.1	755.5	814.9	868.5	940.3	1006.7	1066.1	1105.5	1110.5	1111.3
55°	701.2	702.8	695.3	752.2	804.1	879.3	955.6	1013.3	1052.8	1056.9	1059.4
57.5°	641.0	641.4	635.2	689.5	739.4	816.2	896.3	956.9	994.2	998.4	1002.1
60°	581.2	580.8	573.7	626.4	674.2	750.1	833.6	893.8	929.9	933.6	938.6
62.5°	521.8	520.6	514.4	562.9	607.8	682.9	766.8	824.9	859.3	861.8	868.5
65°	462.9	461.6	455.8	500.7	541.3	613.2	695.3	750.6	781.7	785.0	783.8
67.5°	404.8	402.3	397.7	438.0	474.9	541.3	620.2	672.9	698.7	701.6	709.5
70°	346.6	343.7	333.4	376.1	408.5	467.9	541.3	588.2	609.8	612.7	611.5
72.5°	289.3	286.4	275.2	314.7	342.1	394.0	459.6	498.6	517.3	519.7	519.7
75°	233.7	232.1	225.0	254.9	277.7	320.1	375.7	408.1	422.6	425.5	424.7
77.5°	180.2	178.9	171.9	197.6	215.5	247.0	291.8	317.2	328.0	331.3	338.3
80°	129.1	128.7	117.5	142.8	150.7	177.3	210.1	229.6	235.4	239.9	244.9
82.5°	82.6	83.0	71.8	93.4	96.7	113.7	134.1	146.1	150.3	154.0	157.8
85°	40.3	41.9	35.7	49.4	49.8	58.5	67.3	71.8	73.5	76.4	79.7
87.5°	10.4	12.0	6.6	14.1	12.5	16.2	18.7	19.9	19.5	21.6	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°	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7
2.5°	1741.9	1755.2	1748.5	1770.1	1778.4	1765.2	1788.4	1788.8	1772.2	1791.7	1802.5
5°	1714.9	1728.6	1724.5	1746.9	1757.3	1745.6	1773.9	1779.3	1763.1	1785.1	1802.5
7.5°	1687.5	1703.7	1698.3	1721.1	1733.6	1724.5	1754.8	1763.5	1751.0	1775.1	1798.4
10°	1663.9	1677.6	1671.7	1695.8	1706.6	1699.1	1729.0	1745.2	1733.6	1763.1	1790.9
12.5°	1640.6	1651.8	1645.2	1665.1	1675.5	1665.9	1702.5	1717.4	1709.1	1739.8	1775.5
15°	1610.7	1623.2	1614.0	1631.9	1639.8	1631.5	1661.4	1687.1	1676.7	1710.4	1749.8
17.5°	1587.9	1594.9	1582.5	1596.6	1601.2	1590.0	1620.3	1645.6	1638.1	1674.7	1720.3
20°	1562.6	1568.4	1550.9	1558.8	1558.4	1544.3	1572.1	1597.0	1592.0	1632.3	1684.2
22.5°	1534.3	1537.2	1516.9	1518.6	1517.7	1494.5	1519.4	1544.7	1542.6	1583.3	1641.4
25°	1504.4	1504.9	1478.7	1477.9	1468.7	1441.3	1463.3	1492.0	1485.8	1529.8	1590.8
27.5°	1475.0	1470.8	1439.3	1431.8	1417.3	1384.5	1404.0	1429.7	1426.0	1469.2	1536.8
30°	1443.4	1438.0	1399.4	1385.7	1364.5	1326.8	1343.0	1367.0	1369.1	1406.9	1477.9
32.5°	1413.5	1399.8	1357.1	1337.1	1310.6	1266.6	1275.3	1299.8	1303.1	1341.3	1414.4
35°	1374.9	1365.8	1313.1	1279.0	1252.9	1204.7	1213.9	1230.9	1235.9	1273.2	1347.5
37.5°	1338.4	1323.9	1267.8	1226.3	1192.7	1142.0	1144.5	1162.0	1166.9	1204.7	1278.2
40°	1300.6	1279.9	1219.7	1171.1	1132.5	1079.3	1076.4	1094.7	1098.4	1135.4	1201.8
42.5°	1260.3	1235.4	1167.8	1114.6	1070.2	1016.2	1010.4	1026.2	1030.4	1066.5	1131.7
45°	1219.7	1189.8	1114.6	1056.5	1007.9	952.7	946.9	959.0	965.2	999.2	1061.9
47.5°	1176.5	1141.6	1059.8	995.1	944.8	889.6	882.6	894.6	899.6	933.2	992.6
50°	1131.2	1088.9	1003.4	932.0	882.2	827.8	817.4	831.5	836.1	867.6	925.7
52.5°	1081.4	1034.5	943.2	868.5	818.6	766.8	754.3	768.0	773.4	804.1	857.7
55°	1028.7	978.1	882.6	809.9	756.0	705.3	694.9	700.3	712.0	741.0	790.8
57.5°	969.3	919.1	818.6	744.8	692.9	644.3	635.6	640.6	651.3	679.6	724.4
60°	906.2	853.1	753.5	679.6	629.3	583.3	575.4	579.9	591.6	617.3	658.8
62.5°	844.0	784.2	686.2	612.7	567.1	524.3	522.2	520.6	531.4	556.3	592.8
65°	768.4	711.1	616.1	546.3	504.8	466.2	457.9	461.6	472.0	494.8	533.0
67.5°	687.5	635.6	544.2	479.9	442.9	408.5	401.4	403.1	413.9	433.8	467.0
70°	601.5	555.9	470.8	413.1	381.9	349.5	345.0	345.4	355.8	373.2	402.3
72.5°	511.4	470.3	396.5	347.1	321.3	298.1	293.9	288.9	298.5	313.4	338.3
75°	419.7	383.6	322.6	282.3	261.9	242.4	238.7	233.7	243.3	256.1	275.6
77.5°	327.1	298.1	250.7	219.6	203.8	189.3	186.0	180.6	190.1	199.7	215.0
80°	236.6	215.5	187.2	154.4	149.0	139.5	136.2	130.4	139.5	145.7	157.3
82.5°	152.8	138.7	122.5	99.6	98.8	91.7	90.1	83.4	91.7	95.5	104.2
85°	77.2	70.6	66.4	50.6	52.3	47.7	47.3	40.3	46.9	48.6	53.6
87.5°	22.0	23.2	20.8	12.5	15.8	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: P837772

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2HI-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7	1779.7
2.5°	1781.3	1788.4	1790.1	1789.6	1794.2	1819.1	1810.8	1819.1
5°	1785.5	1801.3	1805.4	1811.2	1818.7	1846.9	1837.8	1847.8
7.5°	1788.0	1811.6	1820.8	1832.0	1844.0	1875.6	1868.1	1878.1
10°	1788.0	1818.7	1832.0	1850.7	1866.9	1903.4	1896.3	1908.0
12.5°	1780.5	1819.9	1838.6	1864.8	1885.5	1925.0	1922.1	1930.4
15°	1765.2	1813.7	1839.5	1873.1	1898.8	1942.8	1941.6	1951.5
17.5°	1744.4	1802.9	1834.1	1876.4	1908.8	1958.2	1961.1	1966.5
20°	1718.2	1782.6	1823.3	1875.2	1915.8	1970.2	1974.0	1981.4
22.5°	1683.8	1758.1	1807.1	1869.8	1916.7	1975.2	1981.9	1988.9
25°	1643.1	1728.6	1785.9	1859.4	1912.5	1974.8	1983.9	1990.2
27.5°	1596.6	1690.4	1758.9	1842.8	1900.9	1968.2	1979.4	1986.8
30°	1542.6	1649.7	1728.2	1821.2	1885.1	1955.7	1967.7	1975.2
32.5°	1487.0	1604.9	1691.7	1793.4	1862.3	1935.8	1946.1	1952.0
35°	1426.4	1550.5	1647.7	1757.7	1832.8	1903.8	1911.7	1917.9
37.5°	1360.4	1491.6	1597.4	1717.4	1791.3	1859.4	1866.4	1873.5
40°	1292.3	1429.7	1541.0	1668.0	1741.9	1805.0	1812.5	1817.5
42.5°	1223.8	1361.2	1480.8	1609.9	1683.4	1744.0	1748.5	1753.5
45°	1154.5	1290.2	1413.1	1545.5	1618.2	1675.1	1676.7	1680.9
47.5°	1083.9	1216.8	1338.8	1472.1	1543.9	1595.8	1597.4	1600.8
50°	1012.9	1143.3	1259.5	1392.8	1462.9	1517.7	1510.3	1513.6
52.5°	943.2	1066.1	1184.8	1307.3	1376.6	1425.2	1427.2	1420.6
55°	874.7	990.5	1099.7	1217.6	1283.6	1321.4	1320.1	1322.6
57.5°	805.4	914.1	1014.2	1122.1	1186.5	1222.2	1229.6	1220.9
60°	734.8	836.9	926.6	1024.1	1086.4	1116.3	1125.0	1116.7
62.5°	664.6	758.5	839.8	924.9	982.6	1019.6	1018.7	1009.6
65°	594.5	679.6	752.2	824.5	874.7	911.6	910.0	901.7
67.5°	529.7	599.9	665.0	723.6	767.2	792.5	801.2	791.2
70°	458.3	518.9	576.2	623.1	659.2	682.1	690.4	681.7
72.5°	386.9	438.4	478.6	523.9	551.7	570.8	579.5	571.2
75°	316.3	358.7	391.5	426.8	446.3	462.5	472.4	464.1
77.5°	247.8	280.6	306.8	332.5	354.9	358.7	367.4	362.0
80°	182.7	206.3	225.4	242.4	258.6	260.3	267.3	264.0
82.5°	121.6	137.4	142.4	160.2	170.6	169.0	176.0	173.5
85°	64.3	73.9	82.6	88.0	93.8	88.4	94.7	92.2
87.5°	21.6	22.8	19.9	28.2	31.1	26.6	30.3	29.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)