

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: P837798

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2STD-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: P837798
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-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

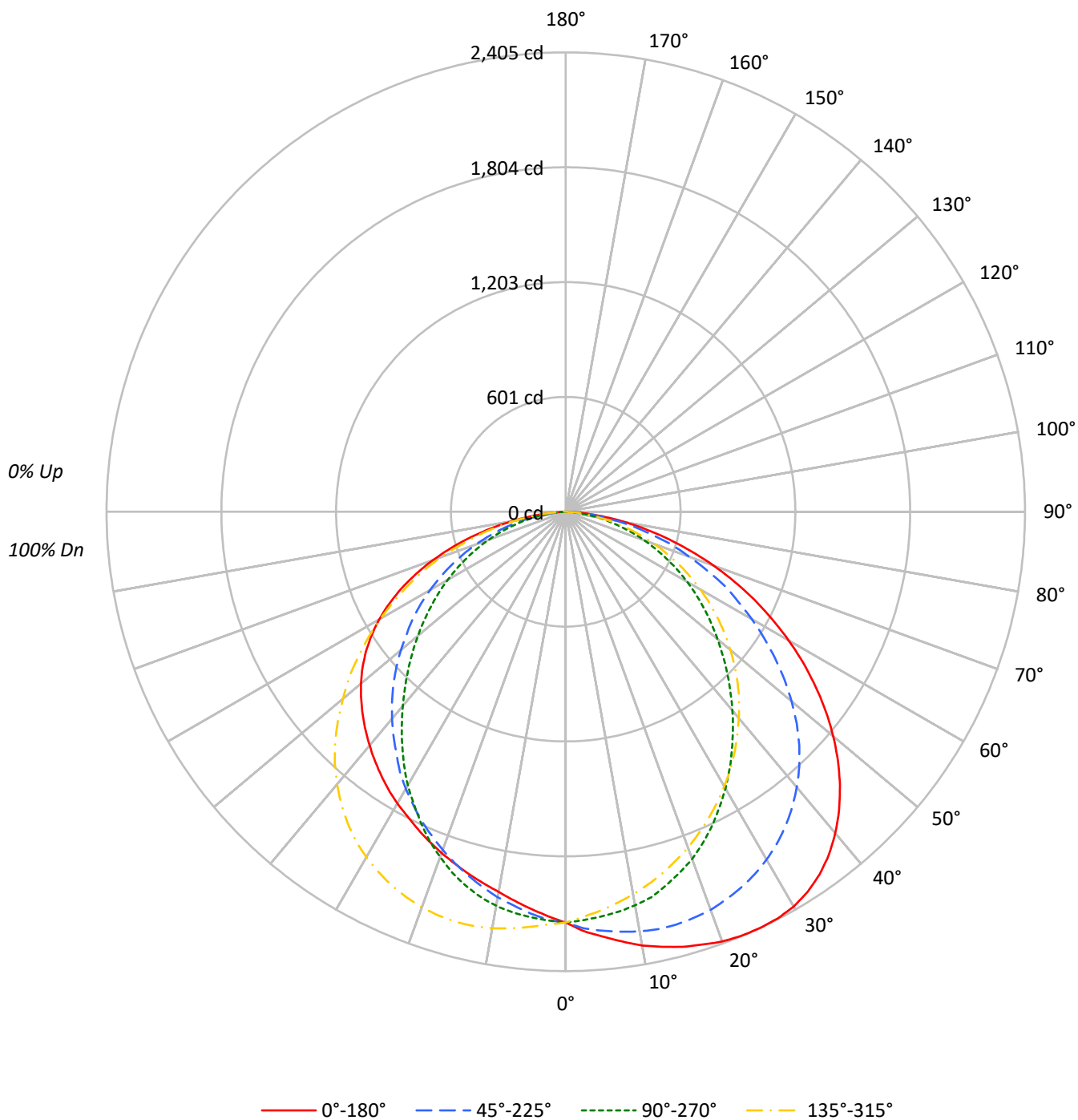
Lumens per Lamp: N/A
Luminaire Lumens: 6309.4 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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
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°	5787	5787	5787	5787
5°	6031	5746	5637	5755
10°	6300	5716	5523	5724
15°	6570	5643	5468	5645
20°	6857	5541	5444	5509
25°	7141	5386	5444	5331
30°	7416	5198	5481	5141
35°	7613	4985	5535	4906
40°	7715	4770	5612	4663
45°	7730	4553	5721	4438
50°	7657	4345	5861	4230
55°	7498	4152	5992	4036
60°	7262	3950	6072	3847
65°	6938	3718	6040	3632
70°	6481	3445	5825	3382
75°	5831	3072	5346	3057
80°	4943	2572	4493	2613
85°	3440	1704	2850	1751

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	3.2
10°-20°	591.3	9.4
20°-30°	906.1	14.4
30°-40°	1101.8	17.5
40°-50°	1145.4	18.2
50°-60°	1034.6	16.4
60°-70°	786.6	12.5
70°-80°	438.5	7.0
80°-90°	101.0	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°	1701.6	27.0
0°-40°	2803.3	44.4
0°-60°	4983.3	79.0
0°-90°	6309.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6309.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2150	2150	2150	2150	2150	
5°	2233	2127	2087	2130	2233	215
15°	2358	2026	1963	2026	2358	669
25°	2405	1814	1834	1795	2405	1111
35°	2318	1518	1685	1493	2318	1448
45°	2031	1196	1503	1166	2031	1564
55°	1598	885	1277	860	1598	1427
65°	1090	584	949	570	1090	1077
75°	561	296	514	294	561	596
85°	111	55	92	57	111	140
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°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2.5°	2198.2	2166.1	2166.6	2194.7	2173.1	2183.6	2153.5	2165.1	2161.6	2164.1	2139.5
5°	2232.8	2198.2	2197.7	2221.8	2197.7	2202.2	2164.1	2171.6	2160.6	2153.5	2127.0
7.5°	2269.4	2234.8	2231.3	2252.4	2220.8	2217.3	2175.1	2175.1	2155.1	2137.5	2112.4
10°	2305.5	2269.9	2265.4	2281.5	2242.3	2230.8	2179.6	2171.6	2145.0	2118.9	2091.8
12.5°	2332.6	2296.5	2293.0	2303.0	2258.9	2237.8	2179.6	2164.1	2125.0	2088.3	2067.3
15°	2358.2	2321.1	2311.6	2316.6	2265.9	2237.8	2172.6	2148.5	2098.4	2050.2	2025.6
17.5°	2376.3	2340.7	2331.1	2330.6	2269.4	2229.3	2157.6	2124.5	2064.3	2006.1	1981.5
20°	2394.3	2358.7	2346.7	2337.6	2268.4	2217.8	2135.5	2090.8	2020.6	1955.4	1934.8
22.5°	2403.4	2366.7	2353.7	2340.2	2261.9	2196.7	2108.4	2051.7	1971.5	1893.7	1876.6
25°	2404.9	2367.2	2353.2	2333.6	2248.9	2171.6	2073.3	2004.6	1914.8	1828.5	1813.9
27.5°	2400.9	2359.7	2345.7	2322.1	2229.3	2141.0	2031.6	1950.9	1854.6	1759.3	1743.7
30°	2386.8	2345.2	2331.6	2301.0	2201.7	2103.4	1986.0	1891.2	1787.9	1686.5	1673.0
32.5°	2358.7	2318.1	2307.0	2276.4	2171.6	2059.7	1932.8	1827.0	1714.1	1617.3	1597.2
35°	2317.6	2277.0	2269.9	2237.8	2129.5	2007.6	1874.6	1756.7	1635.9	1537.0	1517.5
37.5°	2263.9	2229.8	2219.3	2187.7	2079.8	1948.4	1807.9	1680.5	1556.1	1449.7	1437.7
40°	2196.2	2164.1	2156.1	2128.0	2022.1	1882.7	1735.7	1601.7	1473.8	1375.0	1357.9
42.5°	2118.9	2088.8	2084.3	2055.2	1950.9	1809.9	1657.4	1520.0	1388.0	1292.7	1275.7
45°	2031.1	2002.1	2001.0	1973.5	1873.1	1729.2	1575.2	1437.2	1304.3	1205.4	1196.4
47.5°	1934.3	1908.2	1908.2	1882.7	1786.3	1640.4	1490.4	1350.9	1220.0	1132.7	1116.7
50°	1829.0	1804.4	1796.9	1784.3	1690.5	1543.6	1401.1	1266.6	1136.7	1053.4	1037.9
52.5°	1716.6	1695.5	1700.6	1677.5	1586.7	1442.7	1310.8	1171.8	1052.9	977.2	961.6
55°	1598.2	1568.1	1572.6	1564.1	1478.3	1338.9	1209.5	1093.6	970.7	899.4	884.9
57.5°	1475.3	1436.2	1452.3	1447.2	1363.0	1232.5	1116.7	1004.8	888.9	823.2	809.1
60°	1349.4	1311.8	1328.3	1323.8	1244.6	1126.2	1020.8	917.0	807.6	747.9	733.9
62.5°	1220.0	1185.4	1200.4	1196.9	1124.2	1017.3	925.5	830.2	725.9	672.2	659.2
65°	1089.6	1056.5	1070.0	1067.5	1000.3	919.0	827.7	740.4	643.6	597.0	583.9
67.5°	956.1	925.5	938.1	938.1	876.4	798.6	729.4	649.6	562.8	522.7	510.7
70°	823.7	795.1	806.1	805.1	753.0	689.8	630.1	558.8	481.1	448.0	437.9
72.5°	690.3	665.2	675.2	674.2	630.6	589.9	530.7	469.0	401.3	374.7	365.7
75°	560.8	537.3	546.8	545.8	510.2	472.0	432.4	381.2	323.1	304.5	295.5
77.5°	437.4	413.4	421.4	421.4	395.3	367.7	336.1	296.5	255.3	235.3	228.7
80°	319.0	307.5	303.5	304.0	286.4	268.4	252.3	214.2	184.1	170.6	166.0
82.5°	209.7	200.2	196.1	197.1	187.1	176.1	166.0	139.5	119.4	111.4	108.9
85°	111.4	104.3	100.8	103.3	101.3	95.3	90.3	72.2	59.7	56.7	55.2
87.5°	35.1	30.6	28.1	37.1	31.6	28.1	27.1	21.6	16.6	16.6	16.1
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°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2.5°	2147.5	2147.5	2128.0	2123.4	2121.4	2124.0	2104.4	2100.9	2129.0	2119.4	2097.9
5°	2130.5	2129.5	2101.9	2096.9	2096.9	2093.9	2071.8	2066.8	2094.9	2086.8	2063.3
7.5°	2109.4	2106.4	2073.8	2070.3	2065.3	2063.3	2038.7	2035.2	2059.2	2054.2	2032.2
10°	2083.8	2080.8	2042.2	2039.7	2034.2	2030.1	2007.1	2004.6	2029.1	2021.1	2003.6
12.5°	2050.2	2044.7	2005.1	2002.6	1998.0	1996.5	1974.0	1973.0	2000.0	1992.0	1973.5
15°	2006.1	2001.6	1957.4	1958.4	1958.9	1958.9	1940.9	1939.8	1966.4	1962.9	1942.9
17.5°	1957.4	1951.4	1909.2	1912.3	1915.8	1919.8	1905.7	1908.2	1936.3	1931.8	1913.8
20°	1902.2	1896.2	1855.1	1863.6	1871.1	1879.1	1870.1	1877.1	1903.2	1901.2	1887.7
22.5°	1840.5	1834.5	1796.4	1809.4	1822.0	1837.0	1833.0	1841.0	1868.6	1868.1	1856.1
25°	1765.3	1766.8	1733.2	1749.2	1770.3	1791.4	1792.9	1805.9	1836.5	1833.5	1822.5
27.5°	1695.0	1697.1	1661.4	1688.5	1716.6	1743.7	1750.2	1768.3	1799.4	1796.9	1787.3
30°	1621.3	1623.8	1589.2	1626.3	1660.4	1693.5	1707.6	1732.2	1763.8	1763.8	1753.7
32.5°	1544.6	1549.1	1513.0	1562.6	1602.2	1640.9	1665.5	1691.0	1727.2	1726.1	1717.6
35°	1465.8	1470.8	1437.7	1500.9	1540.5	1587.7	1618.3	1652.4	1684.5	1685.0	1678.5
37.5°	1385.5	1391.6	1361.5	1430.7	1475.8	1531.5	1570.6	1604.8	1640.4	1642.4	1636.4
40°	1305.8	1312.3	1286.2	1352.9	1410.1	1472.3	1517.5	1557.6	1596.7	1597.7	1593.7
42.5°	1226.0	1233.0	1213.5	1278.7	1343.4	1410.1	1463.3	1508.9	1549.1	1551.6	1547.1
45°	1148.3	1154.3	1140.2	1211.5	1273.7	1346.4	1407.6	1459.3	1499.9	1503.4	1501.9
47.5°	1071.0	1076.5	1064.0	1129.2	1200.9	1278.2	1348.9	1406.1	1449.2	1453.3	1452.3
50°	995.3	999.8	986.2	1054.5	1125.7	1208.0	1281.7	1347.9	1396.1	1400.1	1399.6
52.5°	920.0	924.5	913.0	984.7	1049.4	1136.2	1216.5	1288.2	1335.9	1341.9	1342.9
55°	847.3	849.3	840.2	909.0	971.7	1062.5	1154.8	1224.5	1272.2	1277.2	1280.2
57.5°	774.5	775.0	767.5	833.2	893.4	986.2	1083.0	1156.3	1201.4	1206.4	1211.0
60°	702.3	701.8	693.3	757.0	814.7	906.5	1007.3	1080.0	1123.7	1128.2	1134.2
62.5°	630.6	629.1	621.5	680.2	734.4	825.2	926.5	996.8	1038.4	1041.4	1049.4
65°	559.3	557.8	550.8	605.0	654.1	740.9	840.2	907.0	944.6	948.6	947.1
67.5°	489.1	486.1	480.6	529.2	573.9	654.1	749.5	813.2	844.3	847.8	857.3
70°	418.9	415.4	402.8	454.5	493.6	565.4	654.1	710.8	736.9	740.4	738.9
72.5°	349.6	346.1	332.6	380.2	413.4	476.1	555.3	602.5	625.0	628.1	628.1
75°	282.4	280.4	271.9	308.0	335.6	386.8	454.0	493.1	510.7	514.2	513.2
77.5°	217.7	216.2	207.7	238.8	260.4	298.5	352.7	383.3	396.3	400.3	408.8
80°	156.0	155.5	142.0	172.6	182.1	214.2	253.8	277.4	284.4	289.9	296.0
82.5°	99.8	100.3	86.8	112.9	116.9	137.4	162.0	176.6	181.6	186.1	190.6
85°	48.7	50.7	43.1	59.7	60.2	70.7	81.3	86.8	88.8	92.3	96.3
87.5°	12.5	14.5	8.0	17.1	15.0	19.6	22.6	24.1	23.6	26.1	27.6
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°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2.5°	2104.9	2120.9	2112.9	2139.0	2149.0	2133.0	2161.1	2161.6	2141.5	2165.1	2178.1
5°	2072.3	2088.8	2083.8	2110.9	2123.4	2109.4	2143.5	2150.0	2130.5	2157.1	2178.1
7.5°	2039.2	2058.7	2052.2	2079.8	2094.9	2083.8	2120.4	2131.0	2115.9	2145.0	2173.1
10°	2010.6	2027.1	2020.1	2049.2	2062.2	2053.2	2089.3	2108.9	2094.9	2130.5	2164.1
12.5°	1982.5	1996.0	1988.0	2012.1	2024.6	2013.1	2057.2	2075.3	2065.3	2102.4	2145.5
15°	1946.4	1961.4	1950.4	1972.0	1981.5	1971.5	2007.6	2038.7	2026.1	2066.8	2114.4
17.5°	1918.8	1927.3	1912.3	1929.3	1934.8	1921.3	1957.9	1988.5	1979.5	2023.6	2078.8
20°	1888.2	1895.2	1874.1	1883.7	1883.2	1866.1	1899.7	1929.8	1923.8	1972.5	2035.2
22.5°	1854.1	1857.6	1833.0	1835.0	1834.0	1805.9	1836.0	1866.6	1864.1	1913.3	1983.5
25°	1817.9	1818.5	1786.8	1785.8	1774.8	1741.7	1768.3	1802.9	1795.4	1848.5	1922.3
27.5°	1782.3	1777.3	1739.2	1730.2	1712.6	1673.0	1696.6	1727.7	1723.1	1775.3	1857.1
30°	1744.2	1737.7	1691.0	1674.5	1648.9	1603.2	1622.8	1651.9	1654.4	1700.1	1785.8
32.5°	1708.1	1691.5	1639.9	1615.8	1583.7	1530.5	1541.0	1570.6	1574.7	1620.8	1709.1
35°	1661.4	1650.4	1586.7	1545.6	1514.0	1455.8	1466.8	1487.4	1493.4	1538.5	1628.3
37.5°	1617.3	1599.7	1532.0	1481.8	1441.2	1380.0	1383.0	1404.1	1410.1	1455.8	1544.6
40°	1571.6	1546.6	1473.8	1415.1	1368.5	1304.3	1300.8	1322.8	1327.3	1372.0	1452.3
42.5°	1523.0	1492.9	1411.1	1346.9	1293.2	1228.0	1221.0	1240.1	1245.1	1288.7	1367.5
45°	1473.8	1437.7	1346.9	1276.7	1218.0	1151.3	1144.2	1158.8	1166.3	1207.5	1283.2
47.5°	1421.7	1379.5	1280.7	1202.4	1141.7	1075.0	1066.5	1081.0	1087.1	1127.7	1199.4
50°	1367.0	1315.8	1212.5	1126.2	1066.0	1000.3	987.7	1004.8	1010.3	1048.4	1118.7
52.5°	1306.8	1250.1	1139.7	1049.4	989.2	926.5	911.5	928.0	934.6	971.7	1036.4
55°	1243.1	1181.9	1066.5	978.7	913.5	852.3	839.7	846.3	860.3	895.4	955.6
57.5°	1171.3	1110.6	989.2	899.9	837.2	778.5	768.0	774.0	787.1	821.2	875.4
60°	1095.1	1030.9	910.5	821.2	760.5	704.8	695.3	700.8	714.8	745.9	796.1
62.5°	1019.8	947.6	829.2	740.4	685.2	633.6	631.1	629.1	642.1	672.2	716.3
65°	928.5	859.3	744.4	660.2	610.0	563.3	553.3	557.8	570.4	598.0	644.1
67.5°	830.7	768.0	657.7	579.9	535.3	493.6	485.1	487.1	500.1	524.2	564.3
70°	726.9	671.7	568.9	499.1	461.5	422.4	416.9	417.4	429.9	451.0	486.1
72.5°	618.0	568.4	479.1	419.4	388.3	360.2	355.2	349.1	360.7	378.7	408.8
75°	507.2	463.5	389.8	341.1	316.5	293.0	288.4	282.4	294.0	309.5	333.1
77.5°	395.3	360.2	303.0	265.4	246.3	228.7	224.7	218.2	229.8	241.3	259.9
80°	285.9	260.4	226.2	186.6	180.1	168.6	164.5	157.5	168.6	176.1	190.1
82.5°	184.6	167.5	148.0	120.4	119.4	110.9	108.9	100.8	110.9	115.4	125.9
85°	93.3	85.3	80.3	61.2	63.2	57.7	57.2	48.7	56.7	58.7	64.7
87.5°	26.6	28.1	25.1	15.0	19.1	18.1	18.1	13.0	18.1	18.1	20.6
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: P837798

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2STD-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5	2150.5
2.5°	2152.5	2161.1	2163.1	2162.6	2168.1	2198.2	2188.2	2198.2
5°	2157.6	2176.6	2181.6	2188.7	2197.7	2231.8	2220.8	2232.8
7.5°	2160.6	2189.2	2200.2	2213.7	2228.3	2266.4	2257.4	2269.4
10°	2160.6	2197.7	2213.7	2236.3	2255.9	2300.0	2291.5	2305.5
12.5°	2151.5	2199.2	2221.8	2253.4	2278.5	2326.1	2322.6	2332.6
15°	2133.0	2191.7	2222.8	2263.4	2294.5	2347.7	2346.2	2358.2
17.5°	2107.9	2178.6	2216.3	2267.4	2306.5	2366.2	2369.8	2376.3
20°	2076.3	2154.0	2203.2	2265.9	2315.1	2380.8	2385.3	2394.3
22.5°	2034.7	2124.5	2183.6	2259.4	2316.1	2386.8	2394.8	2403.4
25°	1985.5	2088.8	2158.1	2246.9	2311.1	2386.3	2397.3	2404.9
27.5°	1929.3	2042.7	2125.5	2226.8	2297.0	2378.3	2391.8	2400.9
30°	1864.1	1993.5	2088.3	2200.7	2278.0	2363.2	2377.8	2386.8
32.5°	1796.9	1939.3	2044.2	2167.1	2250.4	2339.2	2351.7	2358.7
35°	1723.6	1873.6	1991.0	2124.0	2214.7	2300.5	2310.1	2317.6
37.5°	1643.9	1802.4	1930.3	2075.3	2164.6	2246.9	2255.4	2263.9
40°	1561.6	1727.7	1862.1	2015.6	2104.9	2181.1	2190.2	2196.2
42.5°	1478.8	1644.9	1789.4	1945.4	2034.2	2107.4	2112.9	2118.9
45°	1395.1	1559.1	1707.6	1867.6	1955.4	2024.1	2026.1	2031.1
47.5°	1309.8	1470.3	1617.8	1778.8	1865.6	1928.3	1930.3	1934.3
50°	1224.0	1381.5	1522.0	1683.0	1767.8	1834.0	1825.0	1829.0
52.5°	1139.7	1288.2	1431.7	1579.7	1663.4	1722.1	1724.6	1716.6
55°	1057.0	1196.9	1328.8	1471.3	1551.1	1596.7	1595.2	1598.2
57.5°	973.2	1104.6	1225.5	1355.9	1433.7	1476.8	1485.9	1475.3
60°	887.9	1011.3	1119.7	1237.5	1312.8	1348.9	1359.4	1349.4
62.5°	803.1	916.5	1014.8	1117.7	1187.4	1232.0	1231.0	1220.0
65°	718.4	821.2	909.0	996.3	1057.0	1101.6	1099.6	1089.6
67.5°	640.1	724.9	803.6	874.4	927.0	957.6	968.2	956.1
70°	553.8	627.1	696.3	753.0	796.6	824.2	834.2	823.7
72.5°	467.5	529.7	578.4	633.1	666.7	689.8	700.3	690.3
75°	382.3	433.4	473.0	515.7	539.3	558.8	570.9	560.8
77.5°	299.5	339.1	370.7	401.8	428.9	433.4	444.0	437.4
80°	220.7	249.3	272.4	293.0	312.5	314.5	323.1	319.0
82.5°	147.0	166.0	172.1	193.6	206.2	204.2	212.7	209.7
85°	77.8	89.3	99.8	106.3	113.4	106.8	114.4	111.4
87.5°	26.1	27.6	24.1	34.1	37.6	32.1	36.6	35.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)