

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: P837923

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5LO-50-120-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: P837923
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-LD4-5LO-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

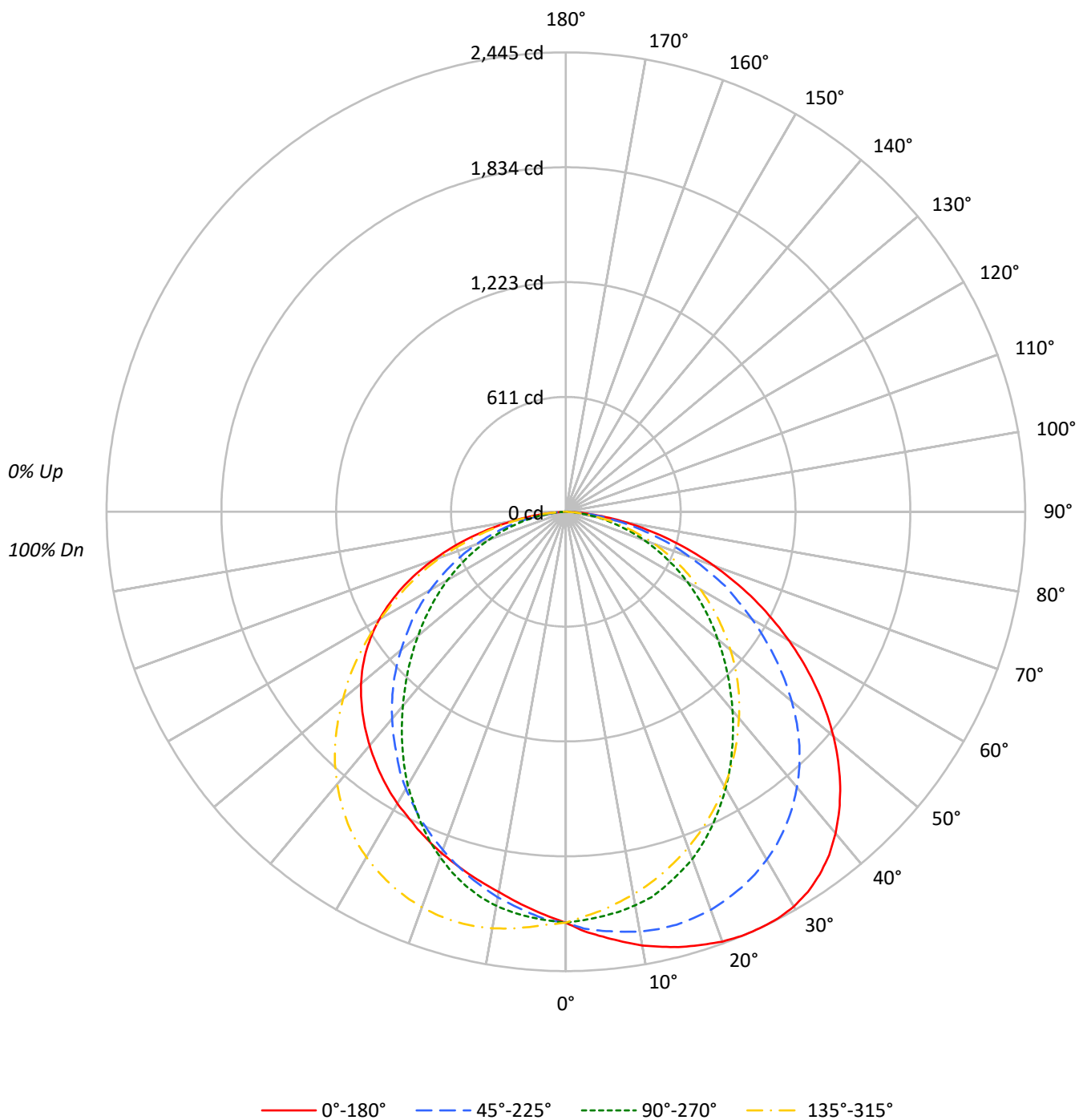
Lumens per Lamp: N/A
Luminaire Lumens: 6415.4 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5884	5884	5884	5884
5°	6133	5842	5732	5852
10°	6406	5812	5616	5820
15°	6680	5738	5560	5740
20°	6972	5634	5536	5602
25°	7261	5476	5535	5421
30°	7541	5286	5573	5227
35°	7741	5069	5628	4988
40°	7844	4851	5707	4741
45°	7860	4630	5818	4513
50°	7785	4418	5960	4301
55°	7624	4221	6092	4104
60°	7385	4016	6174	3912
65°	7054	3780	6142	3693
70°	6589	3504	5924	3439
75°	5929	3123	5436	3108
80°	5027	2616	4568	2656
85°	3495	1732	2899	1778

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	3.2
10°-20°	601.2	9.4
20°-30°	921.4	14.4
30°-40°	1120.3	17.5
40°-50°	1164.6	18.2
50°-60°	1052.0	16.4
60°-70°	799.8	12.5
70°-80°	445.9	7.0
80°-90°	102.7	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°	1730.2	27.0
0°-40°	2850.5	44.4
0°-60°	5067.1	79.0
0°-90°	6415.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6415.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2187	2187	2187	2187	2187	
5°	2270	2163	2122	2166	2270	219
15°	2398	2060	1996	2060	2398	680
25°	2445	1844	1864	1826	2445	1129
35°	2356	1543	1713	1518	2356	1472
45°	2065	1216	1529	1186	2065	1590
55°	1625	900	1299	875	1625	1451
65°	1108	594	965	580	1108	1095
75°	570	300	523	299	570	606
85°	113	56	94	58	113	143
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°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2235.1	2202.5	2203.0	2231.6	2209.6	2220.4	2189.7	2201.5	2197.9	2200.5	2175.5
5°	2270.3	2235.1	2234.6	2259.1	2234.6	2239.2	2200.5	2208.1	2196.9	2189.7	2162.7
7.5°	2307.6	2272.4	2268.8	2290.2	2258.1	2254.5	2211.7	2211.7	2191.3	2173.4	2147.9
10°	2344.3	2308.1	2303.5	2319.8	2280.0	2268.3	2216.3	2208.1	2181.1	2154.6	2127.0
12.5°	2371.8	2335.1	2331.5	2341.8	2296.9	2275.4	2216.3	2200.5	2160.7	2123.4	2102.0
15°	2397.9	2360.1	2350.4	2355.5	2304.0	2275.4	2209.1	2184.6	2133.6	2084.7	2059.7
17.5°	2416.2	2380.0	2370.3	2369.8	2307.6	2266.8	2193.8	2160.2	2099.0	2039.8	2014.8
20°	2434.6	2398.4	2386.1	2376.9	2306.6	2255.0	2171.4	2126.0	2054.6	1988.3	1967.4
22.5°	2443.8	2406.5	2393.3	2379.5	2299.9	2233.6	2143.8	2086.2	2004.6	1925.5	1908.2
25°	2445.3	2407.0	2392.8	2372.9	2286.7	2208.1	2108.1	2038.3	1947.0	1859.2	1844.4
27.5°	2441.2	2399.4	2385.1	2361.1	2266.8	2177.0	2065.8	1983.7	1885.7	1788.8	1773.0
30°	2426.9	2384.6	2370.8	2339.7	2238.7	2138.7	2019.4	1923.0	1817.9	1714.9	1701.1
32.5°	2398.4	2357.1	2345.8	2314.7	2208.1	2094.4	1965.3	1857.7	1742.9	1644.5	1624.1
35°	2356.5	2315.2	2308.1	2275.4	2165.3	2041.3	1906.1	1786.3	1663.4	1562.9	1543.0
37.5°	2302.0	2267.3	2256.6	2224.4	2114.8	1981.1	1838.3	1708.7	1582.3	1474.1	1461.9
40°	2233.1	2200.5	2192.3	2163.7	2056.1	1914.3	1764.9	1628.7	1498.6	1398.1	1380.8
42.5°	2154.6	2123.9	2119.4	2089.8	1983.7	1840.3	1685.3	1545.5	1411.4	1314.5	1297.1
45°	2065.3	2035.7	2034.7	2006.6	1904.6	1758.2	1601.6	1461.4	1326.2	1225.7	1216.5
47.5°	1966.8	1940.3	1940.3	1914.3	1816.4	1667.9	1515.4	1373.6	1240.5	1151.7	1135.4
50°	1859.7	1834.7	1827.1	1814.3	1719.0	1569.5	1424.6	1287.9	1155.8	1071.2	1055.3
52.5°	1745.5	1724.1	1729.2	1705.7	1613.4	1467.0	1332.8	1191.5	1070.6	993.6	977.8
55°	1625.1	1594.5	1599.1	1590.4	1503.2	1361.4	1229.8	1112.0	987.0	914.6	899.8
57.5°	1500.1	1460.3	1476.7	1471.6	1385.9	1253.3	1135.4	1021.7	903.9	837.0	822.7
60°	1372.1	1333.8	1350.7	1346.1	1265.5	1145.1	1038.0	932.4	821.2	760.5	746.2
62.5°	1240.5	1205.3	1220.6	1217.0	1143.1	1034.4	941.1	844.2	738.1	683.5	670.2
65°	1107.9	1074.2	1088.0	1085.4	1017.1	934.5	841.6	752.9	654.4	607.0	593.7
67.5°	972.2	941.1	953.8	953.8	891.1	812.0	741.6	660.5	572.3	531.5	519.3
70°	837.5	808.5	819.7	818.7	765.6	701.4	640.7	568.2	489.2	455.5	445.3
72.5°	701.9	676.4	686.6	685.5	641.2	599.8	539.7	476.9	408.1	381.0	371.8
75°	570.3	546.3	556.0	555.0	518.7	480.0	439.7	387.7	328.5	309.6	300.4
77.5°	444.8	420.3	428.5	428.5	401.9	373.9	341.7	301.5	259.6	239.2	232.6
80°	324.4	312.7	308.6	309.1	291.3	272.9	256.6	217.8	187.2	173.4	168.8
82.5°	213.2	203.5	199.4	200.5	190.3	179.0	168.8	141.8	121.4	113.2	110.7
85°	113.2	106.1	102.5	105.1	103.0	96.9	91.8	73.5	60.7	57.6	56.1
87.5°	35.7	31.1	28.6	37.7	32.1	28.6	27.5	21.9	16.8	16.8	16.3
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°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2183.6	2183.6	2163.7	2159.1	2157.1	2159.7	2139.8	2136.2	2164.8	2155.1	2133.1
5°	2166.3	2165.3	2137.2	2132.1	2132.1	2129.1	2106.6	2101.5	2130.1	2121.9	2097.9
7.5°	2144.9	2141.8	2108.6	2105.1	2100.0	2097.9	2072.9	2069.4	2093.9	2088.8	2066.3
10°	2118.8	2115.8	2076.5	2074.0	2068.4	2064.3	2040.8	2038.3	2063.3	2055.1	2037.2
12.5°	2084.7	2079.1	2038.8	2036.2	2031.6	2030.1	2007.1	2006.1	2033.7	2025.5	2006.6
15°	2039.8	2035.2	1990.3	1991.3	1991.8	1991.8	1973.5	1972.5	1999.5	1995.9	1975.5
17.5°	1990.3	1984.2	1941.3	1944.4	1948.0	1952.1	1937.8	1940.3	1968.9	1964.3	1945.9
20°	1934.2	1928.1	1886.3	1894.9	1902.6	1910.7	1901.6	1908.7	1935.2	1933.2	1919.4
22.5°	1871.5	1865.3	1826.6	1839.8	1852.6	1867.9	1863.8	1872.0	1900.0	1899.5	1887.3
25°	1795.0	1796.5	1762.3	1778.6	1800.1	1821.5	1823.0	1836.3	1867.4	1864.3	1853.1
27.5°	1723.5	1725.6	1689.4	1716.9	1745.5	1773.0	1779.6	1798.0	1829.6	1827.1	1817.4
30°	1648.6	1651.1	1615.9	1653.7	1688.3	1722.0	1736.3	1761.3	1793.4	1793.4	1783.2
32.5°	1570.5	1575.1	1538.4	1588.9	1629.2	1668.5	1693.4	1719.5	1756.2	1755.2	1746.5
35°	1490.4	1495.5	1461.9	1526.1	1566.4	1614.4	1645.5	1680.2	1712.8	1713.3	1706.7
37.5°	1408.8	1414.9	1384.3	1454.7	1500.6	1557.3	1597.0	1631.7	1667.9	1670.0	1663.9
40°	1327.7	1334.4	1307.8	1375.7	1433.8	1497.1	1543.0	1583.8	1623.6	1624.6	1620.5
42.5°	1246.6	1253.8	1233.9	1300.2	1366.0	1433.8	1487.9	1534.3	1575.1	1577.7	1573.1
45°	1167.6	1173.7	1159.4	1231.8	1295.1	1369.0	1431.3	1483.8	1525.1	1528.7	1527.2
47.5°	1089.0	1094.6	1081.9	1148.2	1221.1	1299.7	1371.6	1429.7	1473.6	1477.7	1476.7
50°	1012.0	1016.6	1002.8	1072.2	1144.6	1228.3	1303.2	1370.6	1419.5	1423.6	1423.1
52.5°	935.5	940.1	928.3	1001.3	1067.1	1155.3	1236.9	1309.9	1358.3	1364.4	1365.5
55°	861.5	863.6	854.4	924.3	988.0	1080.3	1174.2	1245.1	1293.5	1298.6	1301.7
57.5°	787.6	788.1	780.4	847.2	908.4	1002.8	1101.3	1175.7	1221.6	1226.7	1231.3
60°	714.1	713.6	704.9	769.7	828.4	921.7	1024.2	1098.2	1142.6	1147.2	1153.3
62.5°	641.2	639.6	632.0	691.7	746.7	839.1	942.1	1013.5	1055.9	1058.9	1067.1
65°	568.7	567.2	560.1	615.1	665.1	753.4	854.4	922.2	960.5	964.6	963.0
67.5°	497.3	494.3	488.7	538.1	583.5	665.1	762.1	826.8	858.5	862.0	871.7
70°	425.9	422.3	409.6	462.1	501.9	574.9	665.1	722.8	749.3	752.9	751.3
72.5°	355.5	352.0	338.2	386.6	420.3	484.1	564.7	612.6	635.6	638.6	638.6
75°	287.2	285.1	276.5	313.2	341.2	393.3	461.6	501.4	519.3	522.8	521.8
77.5°	221.4	219.8	211.2	242.8	264.7	303.5	358.6	389.7	403.0	407.0	415.7
80°	158.6	158.1	144.4	175.5	185.2	217.8	258.1	282.1	289.2	294.8	300.9
82.5°	101.5	102.0	88.2	114.8	118.8	139.8	164.8	179.5	184.6	189.2	193.8
85°	49.5	51.5	43.9	60.7	61.2	71.9	82.6	88.2	90.3	93.9	97.9
87.5°	12.8	14.8	8.2	17.3	15.3	19.9	23.0	24.5	24.0	26.5	28.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2140.3	2156.6	2148.4	2175.0	2185.2	2168.8	2197.4	2197.9	2177.5	2201.5	2214.7
5°	2107.1	2123.9	2118.8	2146.4	2159.1	2144.9	2179.5	2186.2	2166.3	2193.3	2214.7
7.5°	2073.5	2093.3	2086.7	2114.8	2130.1	2118.8	2156.1	2166.8	2151.5	2181.1	2209.6
10°	2044.4	2061.2	2054.1	2083.7	2096.9	2087.7	2124.5	2144.4	2130.1	2166.3	2200.5
12.5°	2015.8	2029.6	2021.4	2045.9	2058.7	2046.9	2091.8	2110.2	2100.0	2137.7	2181.6
15°	1979.1	1994.4	1983.2	2005.1	2014.8	2004.6	2041.3	2072.9	2060.2	2101.5	2150.0
17.5°	1951.0	1959.7	1944.4	1961.7	1967.4	1953.6	1990.8	2021.9	2012.8	2057.6	2113.7
20°	1919.9	1927.1	1905.6	1915.3	1914.8	1897.5	1931.7	1962.3	1956.1	2005.6	2069.4
22.5°	1885.2	1888.8	1863.8	1865.9	1864.8	1836.3	1866.9	1898.0	1895.4	1945.4	2016.8
25°	1848.5	1849.0	1816.9	1815.9	1804.6	1771.0	1798.0	1833.2	1825.6	1879.6	1954.6
27.5°	1812.3	1807.2	1768.4	1759.2	1741.4	1701.1	1725.1	1756.7	1752.1	1805.2	1888.3
30°	1773.5	1766.9	1719.5	1702.6	1676.6	1630.2	1650.1	1679.7	1682.2	1728.6	1815.9
32.5°	1736.8	1720.0	1667.4	1642.9	1610.3	1556.2	1566.9	1597.0	1601.1	1648.1	1737.8
35°	1689.4	1678.1	1613.4	1571.5	1539.4	1480.2	1491.5	1512.4	1518.5	1564.4	1655.7
37.5°	1644.5	1626.6	1557.8	1506.8	1465.4	1403.2	1406.3	1427.7	1433.8	1480.2	1570.5
40°	1598.1	1572.6	1498.6	1438.9	1391.5	1326.2	1322.6	1345.1	1349.7	1395.1	1476.7
42.5°	1548.6	1518.0	1434.8	1369.5	1315.0	1248.7	1241.5	1260.9	1266.0	1310.4	1390.5
45°	1498.6	1461.9	1369.5	1298.1	1238.5	1170.6	1163.5	1178.3	1185.9	1227.7	1304.8
47.5°	1445.6	1402.7	1302.2	1222.6	1160.9	1093.1	1084.4	1099.2	1105.3	1146.6	1219.6
50°	1390.0	1337.9	1232.8	1145.1	1083.9	1017.1	1004.3	1021.7	1027.3	1066.1	1137.5
52.5°	1328.7	1271.1	1158.9	1067.1	1005.9	942.1	926.8	943.6	950.3	988.0	1053.8
55°	1264.0	1201.7	1084.4	995.2	928.8	866.6	853.9	860.5	874.8	910.5	971.7
57.5°	1191.0	1129.3	1005.9	915.1	851.3	791.6	780.9	787.0	800.3	835.0	890.1
60°	1113.5	1048.2	925.8	835.0	773.3	716.7	707.0	712.6	726.9	758.5	809.5
62.5°	1037.0	963.5	843.2	752.9	696.8	644.2	641.7	639.6	652.9	683.5	728.4
65°	944.1	873.8	757.0	671.3	620.3	572.8	562.6	567.2	580.0	608.0	654.9
67.5°	844.7	780.9	668.7	589.6	544.2	501.9	493.2	495.3	508.5	533.0	573.8
70°	739.1	683.0	578.4	507.5	469.3	429.5	423.9	424.4	437.1	458.6	494.3
72.5°	628.4	577.9	487.1	426.4	394.8	366.2	361.1	355.0	366.7	385.1	415.7
75°	515.7	471.3	396.3	346.9	321.9	297.9	293.3	287.2	298.9	314.7	338.7
77.5°	401.9	366.2	308.1	269.8	250.4	232.6	228.5	221.9	233.6	245.3	264.2
80°	290.7	264.7	230.0	189.7	183.1	171.4	167.3	160.2	171.4	179.0	193.3
82.5°	187.7	170.4	150.5	122.4	121.4	112.7	110.7	102.5	112.7	117.3	128.0
85°	94.9	86.7	81.6	62.2	64.3	58.7	58.1	49.5	57.6	59.7	65.8
87.5°	27.0	28.6	25.5	15.3	19.4	18.4	18.4	13.3	18.4	18.4	20.9
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: P837923

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5LO-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7	2186.7
2.5°	2188.7	2197.4	2199.4	2198.9	2204.5	2235.1	2224.9	2235.1
5°	2193.8	2213.2	2218.3	2225.5	2234.6	2269.3	2258.1	2270.3
7.5°	2196.9	2226.0	2237.2	2251.0	2265.8	2304.5	2295.3	2307.6
10°	2196.9	2234.6	2251.0	2273.9	2293.8	2338.7	2330.0	2344.3
12.5°	2187.7	2236.2	2259.1	2291.3	2316.8	2365.2	2361.6	2371.8
15°	2168.8	2228.5	2260.1	2301.5	2333.1	2387.1	2385.6	2397.9
17.5°	2143.3	2215.3	2253.5	2305.5	2345.3	2406.0	2409.6	2416.2
20°	2111.2	2190.3	2240.2	2304.0	2354.0	2420.8	2425.4	2434.6
22.5°	2068.9	2160.2	2220.4	2297.4	2355.0	2426.9	2435.1	2443.8
25°	2018.9	2123.9	2194.3	2284.6	2349.9	2426.4	2437.6	2445.3
27.5°	1961.7	2077.0	2161.2	2264.2	2335.6	2418.3	2432.0	2441.2
30°	1895.4	2027.0	2123.4	2237.7	2316.2	2403.0	2417.8	2426.9
32.5°	1827.1	1971.9	2078.6	2203.5	2288.2	2378.5	2391.2	2398.4
35°	1752.6	1905.1	2024.5	2159.7	2252.0	2339.2	2348.9	2356.5
37.5°	1671.5	1832.7	1962.8	2110.2	2201.0	2284.6	2293.3	2302.0
40°	1587.9	1756.7	1893.4	2049.5	2140.3	2217.8	2227.0	2233.1
42.5°	1503.7	1672.5	1819.4	1978.1	2068.4	2142.8	2148.4	2154.6
45°	1418.5	1585.3	1736.3	1899.0	1988.3	2058.2	2060.2	2065.3
47.5°	1331.8	1495.0	1645.0	1808.7	1897.0	1960.7	1962.8	1966.8
50°	1244.6	1404.7	1547.6	1711.3	1797.5	1864.8	1855.7	1859.7
52.5°	1158.9	1309.9	1455.8	1606.2	1691.4	1751.1	1753.6	1745.5
55°	1074.7	1217.0	1351.2	1496.0	1577.1	1623.6	1622.0	1625.1
57.5°	989.5	1123.2	1246.1	1378.7	1457.8	1501.7	1510.8	1500.1
60°	902.8	1028.3	1138.5	1258.4	1334.9	1371.6	1382.3	1372.1
62.5°	816.6	931.9	1031.9	1136.4	1207.3	1252.7	1251.7	1240.5
65°	730.4	835.0	924.3	1013.0	1074.7	1120.1	1118.1	1107.9
67.5°	650.9	737.1	817.1	889.1	942.6	973.7	984.4	972.2
70°	563.1	637.6	708.0	765.6	810.0	838.1	848.3	837.5
72.5°	475.4	538.6	588.1	643.7	677.9	701.4	712.1	701.9
75°	388.7	440.7	481.0	524.4	548.3	568.2	580.5	570.3
77.5°	304.5	344.8	376.9	408.6	436.1	440.7	451.4	444.8
80°	224.4	253.5	277.0	297.9	317.8	319.8	328.5	324.4
82.5°	149.5	168.8	175.0	196.9	209.6	207.6	216.3	213.2
85°	79.1	90.8	101.5	108.1	115.3	108.6	116.3	113.2
87.5°	26.5	28.1	24.5	34.7	38.3	32.6	37.2	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)