

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: P837854

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-27-120-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: P837854
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-LD4-6LO-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

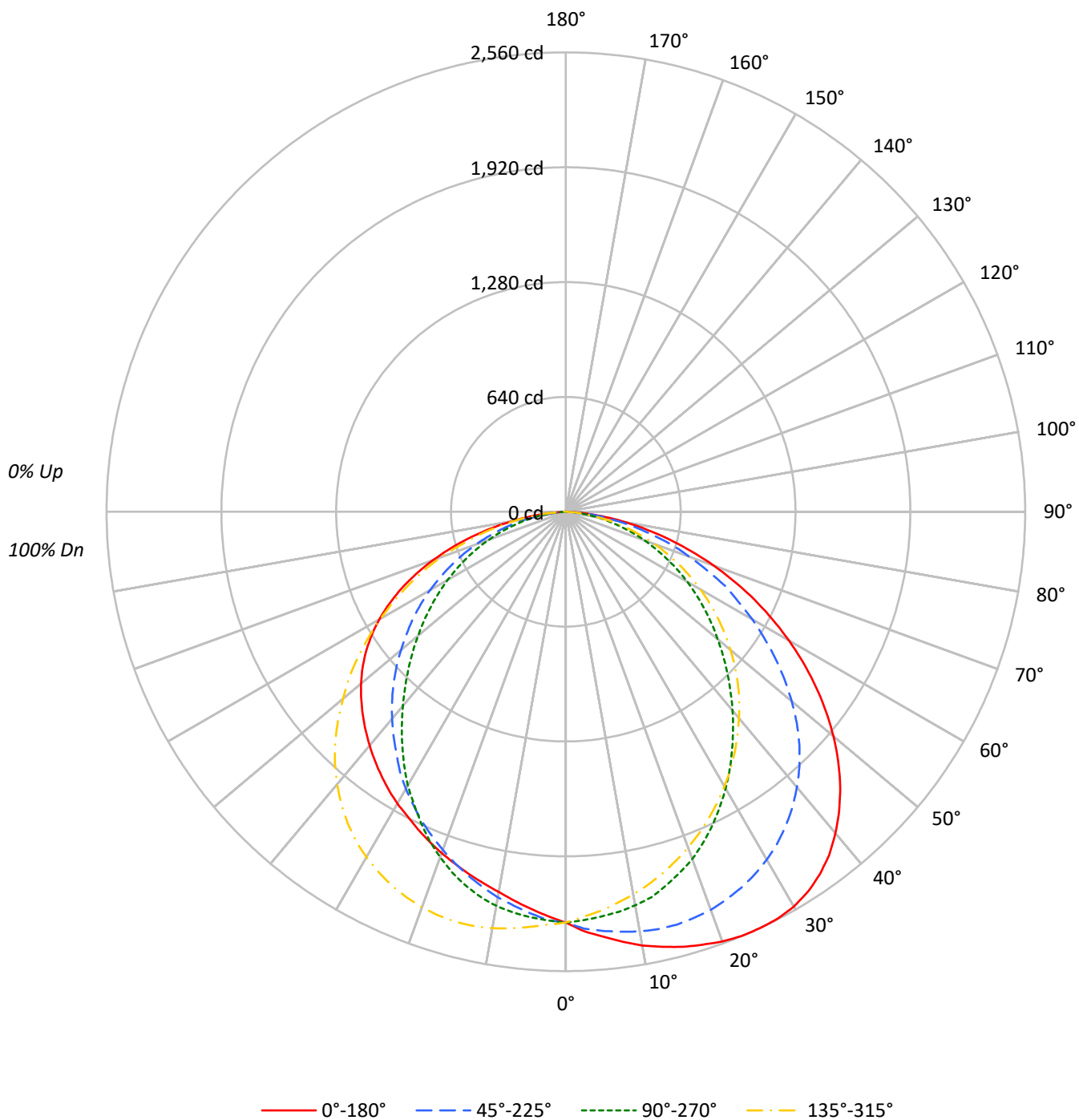
Lumens per Lamp: N/A
Luminaire Lumens: 6716.9 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6161	6161	6161	6161
5°	6421	6116	6001	6127
10°	6707	6085	5879	6094
15°	6994	6008	5822	6009
20°	7300	5899	5796	5865
25°	7602	5734	5796	5675
30°	7896	5534	5835	5473
35°	8105	5307	5893	5223
40°	8213	5078	5975	4964
45°	8229	4847	6091	4725
50°	8151	4626	6240	4503
55°	7983	4419	6379	4297
60°	7732	4205	6464	4096
65°	7386	3958	6430	3866
70°	6899	3668	6201	3601
75°	6208	3270	5691	3253
80°	5263	2740	4784	2780
85°	3662	1812	3035	1862

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	3.2
10°-20°	629.4	9.4
20°-30°	964.6	14.4
30°-40°	1172.9	17.5
40°-50°	1219.3	18.2
50°-60°	1101.4	16.4
60°-70°	837.4	12.5
70°-80°	466.8	7.0
80°-90°	107.5	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°	1811.5	27.0
0°-40°	2984.4	44.4
0°-60°	5305.2	79.0
0°-90°	6716.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6716.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2289	2289	2289	2289	2289	
5°	2377	2264	2222	2268	2377	229
15°	2510	2156	2090	2157	2510	712
25°	2560	1931	1952	1911	2560	1182
35°	2467	1616	1794	1590	2467	1541
45°	2162	1274	1600	1242	2162	1665
55°	1702	942	1360	916	1702	1519
65°	1160	622	1010	607	1160	1146
75°	597	314	547	313	597	634
85°	119	59	98	60	119	149
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°	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4
2.5°	2340.2	2306.0	2306.5	2336.4	2313.5	2324.7	2292.6	2304.9	2301.2	2303.8	2277.7
5°	2377.0	2340.2	2339.6	2365.3	2339.6	2344.4	2303.8	2311.9	2300.1	2292.6	2264.3
7.5°	2416.0	2379.1	2375.4	2397.8	2364.2	2360.5	2315.6	2315.6	2294.2	2275.5	2248.8
10°	2454.4	2416.5	2411.7	2428.8	2387.2	2374.9	2320.4	2311.9	2283.6	2255.8	2226.9
12.5°	2483.3	2444.8	2441.1	2451.8	2404.8	2382.4	2320.4	2303.8	2262.2	2223.2	2200.8
15°	2510.5	2471.0	2460.9	2466.2	2412.3	2382.4	2312.9	2287.3	2233.9	2182.6	2156.5
17.5°	2529.7	2491.8	2481.7	2481.2	2416.0	2373.3	2296.9	2261.7	2197.6	2135.6	2109.5
20°	2549.0	2511.1	2498.2	2488.6	2414.9	2361.0	2273.4	2225.9	2151.1	2081.7	2059.8
22.5°	2558.6	2519.6	2505.7	2491.3	2408.0	2338.6	2244.6	2184.2	2098.8	2016.0	1997.8
25°	2560.2	2520.1	2505.2	2484.4	2394.1	2311.9	2207.2	2134.0	2038.4	1946.6	1931.1
27.5°	2555.9	2512.1	2497.2	2472.1	2373.3	2279.3	2162.9	2076.9	1974.3	1872.9	1856.3
30°	2541.0	2496.6	2482.2	2449.6	2343.9	2239.2	2114.3	2013.3	1903.3	1795.4	1781.0
32.5°	2511.1	2467.8	2456.1	2423.5	2311.9	2192.8	2057.7	1945.0	1824.8	1721.7	1700.4
35°	2467.3	2424.0	2416.5	2382.4	2267.0	2137.2	1995.7	1870.2	1741.5	1636.3	1615.5
37.5°	2410.1	2373.8	2362.6	2328.9	2214.1	2074.2	1924.7	1789.0	1656.6	1543.4	1530.6
40°	2338.0	2303.8	2295.3	2265.4	2152.7	2004.3	1847.8	1705.2	1569.0	1463.8	1445.6
42.5°	2255.8	2223.7	2218.9	2188.0	2076.9	1926.8	1764.5	1618.1	1477.7	1376.2	1358.1
45°	2162.3	2131.4	2130.3	2100.9	1994.1	1840.8	1676.9	1530.0	1388.5	1283.3	1273.7
47.5°	2059.3	2031.5	2031.5	2004.3	1901.7	1746.3	1586.6	1438.2	1298.8	1205.9	1188.8
50°	1947.1	1920.9	1912.9	1899.6	1799.7	1643.2	1491.6	1348.5	1210.1	1121.5	1104.9
52.5°	1827.5	1805.1	1810.4	1785.8	1689.2	1535.9	1395.4	1247.5	1121.0	1040.3	1023.8
55°	1701.5	1669.4	1674.2	1665.1	1573.8	1425.4	1287.6	1164.2	1033.4	957.5	942.0
57.5°	1570.6	1529.0	1546.0	1540.7	1451.0	1312.1	1188.8	1069.7	946.3	876.4	861.4
60°	1436.6	1396.5	1414.1	1409.3	1325.0	1198.9	1086.8	976.2	859.8	796.3	781.3
62.5°	1298.8	1261.9	1278.0	1274.2	1196.8	1083.0	985.3	883.8	772.8	715.6	701.7
65°	1159.9	1124.7	1139.1	1136.4	1064.9	978.4	881.2	788.2	685.2	635.5	621.6
67.5°	1017.9	985.3	998.7	998.7	933.0	850.2	776.5	691.6	599.2	556.5	543.7
70°	876.9	846.5	858.2	857.1	801.6	734.3	670.8	594.9	512.1	476.9	466.2
72.5°	734.8	708.1	718.8	717.7	671.3	628.0	565.0	499.3	427.2	398.9	389.3
75°	597.1	572.0	582.1	581.0	543.1	502.5	460.3	405.9	343.9	324.2	314.5
77.5°	465.7	440.0	448.6	448.6	420.8	391.5	357.8	315.6	271.8	250.5	243.5
80°	339.6	327.4	323.1	323.6	304.9	285.7	268.6	228.0	196.0	181.6	176.8
82.5°	223.2	213.1	208.8	209.9	199.2	187.4	176.8	148.5	127.1	118.6	115.9
85°	118.6	111.1	107.3	110.0	107.9	101.5	96.1	76.9	63.6	60.3	58.7
87.5°	37.4	32.6	29.9	39.5	33.6	29.9	28.8	23.0	17.6	17.6	17.1
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°	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4
2.5°	2286.2	2286.2	2265.4	2260.6	2258.5	2261.1	2240.3	2236.6	2266.5	2256.3	2233.4
5°	2268.1	2267.0	2237.6	2232.3	2232.3	2229.1	2205.6	2200.2	2230.2	2221.6	2196.5
7.5°	2245.6	2242.4	2207.7	2204.0	2198.6	2196.5	2170.3	2166.6	2192.2	2186.9	2163.4
10°	2218.4	2215.2	2174.1	2171.4	2165.5	2161.3	2136.7	2134.0	2160.2	2151.6	2133.0
12.5°	2182.6	2176.7	2134.6	2131.9	2127.1	2125.5	2101.4	2100.4	2129.2	2120.7	2100.9
15°	2135.6	2130.8	2083.8	2084.9	2085.4	2085.4	2066.2	2065.1	2093.4	2089.7	2068.3
17.5°	2083.8	2077.4	2032.6	2035.8	2039.5	2043.8	2028.8	2031.5	2061.4	2056.6	2037.4
20°	2025.1	2018.7	1974.9	1984.0	1992.0	2000.5	1990.9	1998.4	2026.1	2024.0	2009.6
22.5°	1959.4	1953.0	1912.4	1926.3	1939.6	1955.7	1951.4	1959.9	1989.3	1988.8	1975.9
25°	1879.3	1880.9	1845.1	1862.2	1884.6	1907.1	1908.7	1922.5	1955.1	1951.9	1940.2
27.5°	1804.5	1806.7	1768.7	1797.6	1827.5	1856.3	1863.3	1882.5	1915.6	1912.9	1902.8
30°	1726.0	1728.7	1691.8	1731.4	1767.7	1802.9	1817.9	1844.0	1877.7	1877.7	1867.0
32.5°	1644.3	1649.1	1610.7	1663.5	1705.7	1746.8	1773.0	1800.2	1838.7	1837.6	1828.6
35°	1560.5	1565.8	1530.6	1597.8	1640.0	1690.2	1722.8	1759.1	1793.3	1793.8	1786.9
37.5°	1475.0	1481.4	1449.4	1523.1	1571.1	1630.4	1672.1	1708.4	1746.3	1748.4	1742.0
40°	1390.1	1397.0	1369.3	1440.3	1501.2	1567.4	1615.5	1658.2	1699.8	1700.9	1696.6
42.5°	1305.2	1312.7	1291.8	1361.3	1430.2	1501.2	1557.8	1606.4	1649.1	1651.8	1647.0
45°	1222.4	1228.8	1213.9	1289.7	1355.9	1433.4	1498.5	1553.5	1596.8	1600.5	1598.9
47.5°	1140.2	1146.0	1132.7	1202.1	1278.5	1360.7	1436.0	1496.9	1542.8	1547.1	1546.0
50°	1059.5	1064.3	1049.9	1122.6	1198.4	1286.0	1364.5	1435.0	1486.2	1490.5	1490.0
52.5°	979.4	984.2	972.0	1048.3	1117.2	1209.6	1295.0	1371.4	1422.1	1428.6	1429.6
55°	902.0	904.1	894.5	967.7	1034.4	1131.1	1229.4	1303.6	1354.3	1359.7	1362.9
57.5°	824.6	825.1	817.1	887.0	951.1	1049.9	1153.0	1231.0	1279.0	1284.4	1289.2
60°	747.7	747.1	738.0	805.9	867.3	965.0	1072.4	1149.8	1196.2	1201.1	1207.5
62.5°	671.3	669.7	661.7	724.2	781.8	878.5	986.4	1061.1	1105.5	1108.7	1117.2
65°	595.5	593.9	586.4	644.1	696.4	788.8	894.5	965.5	1005.6	1009.9	1008.3
67.5°	520.7	517.5	511.6	563.4	610.9	696.4	797.9	865.7	898.8	902.5	912.7
70°	445.9	442.2	428.8	483.8	525.5	601.9	696.4	756.7	784.5	788.2	786.6
72.5°	372.2	368.5	354.1	404.8	440.0	506.8	591.2	641.4	665.4	668.6	668.6
75°	300.7	298.5	289.4	327.9	357.3	411.7	483.3	525.0	543.7	547.4	546.3
77.5°	231.8	230.2	221.1	254.2	277.2	317.8	375.4	408.0	421.9	426.2	435.2
80°	166.1	165.6	151.1	183.7	193.9	228.0	270.2	295.3	302.8	308.7	315.1
82.5°	106.3	106.8	92.4	120.2	124.4	146.3	172.5	188.0	193.3	198.1	202.9
85°	51.8	53.9	45.9	63.6	64.1	75.3	86.5	92.4	94.5	98.3	102.5
87.5°	13.4	15.5	8.5	18.2	16.0	20.8	24.0	25.6	25.1	27.8	29.4
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°	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4
2.5°	2240.8	2257.9	2249.4	2277.1	2287.8	2270.7	2300.6	2301.2	2279.8	2304.9	2318.8
5°	2206.1	2223.7	2218.4	2247.2	2260.6	2245.6	2282.0	2288.9	2268.1	2296.4	2318.8
7.5°	2170.9	2191.7	2184.8	2214.1	2230.2	2218.4	2257.4	2268.6	2252.6	2283.6	2313.5
10°	2140.4	2158.1	2150.6	2181.6	2195.4	2185.8	2224.3	2245.1	2230.2	2268.1	2303.8
12.5°	2110.5	2124.9	2116.4	2142.0	2155.4	2143.1	2190.1	2209.3	2198.6	2238.2	2284.1
15°	2072.1	2088.1	2076.3	2099.3	2109.5	2098.8	2137.2	2170.3	2157.0	2200.2	2251.0
17.5°	2042.7	2051.8	2035.8	2053.9	2059.8	2045.4	2084.4	2116.9	2107.3	2154.3	2213.1
20°	2010.1	2017.6	1995.2	2005.3	2004.8	1986.6	2022.4	2054.5	2048.0	2099.8	2166.6
22.5°	1973.8	1977.6	1951.4	1953.5	1952.5	1922.5	1954.6	1987.2	1984.5	2036.8	2111.6
25°	1935.4	1935.9	1902.3	1901.2	1889.4	1854.2	1882.5	1919.3	1911.3	1967.9	2046.4
27.5°	1897.4	1892.1	1851.5	1841.9	1823.2	1781.0	1806.1	1839.2	1834.4	1890.0	1977.0
30°	1856.9	1849.9	1800.2	1782.6	1755.4	1706.8	1727.6	1758.6	1761.3	1809.9	1901.2
32.5°	1818.4	1800.8	1745.8	1720.1	1686.0	1629.4	1640.6	1672.1	1676.4	1725.5	1819.5
35°	1768.7	1757.0	1689.2	1645.4	1611.7	1549.8	1561.5	1583.4	1589.8	1637.9	1733.5
37.5°	1721.7	1703.1	1631.0	1577.6	1534.3	1469.1	1472.3	1494.8	1501.2	1549.8	1644.3
40°	1673.1	1646.4	1569.0	1506.5	1456.9	1388.5	1384.8	1408.3	1413.1	1460.6	1546.0
42.5°	1621.3	1589.3	1502.3	1433.9	1376.8	1307.3	1299.9	1320.1	1325.5	1371.9	1455.8
45°	1569.0	1530.6	1433.9	1359.1	1296.6	1225.6	1218.1	1233.6	1241.6	1285.4	1366.1
47.5°	1513.5	1468.6	1363.4	1280.1	1215.5	1144.4	1135.4	1150.9	1157.3	1200.5	1276.9
50°	1455.3	1400.8	1290.8	1198.9	1134.8	1064.9	1051.5	1069.7	1075.6	1116.1	1190.9
52.5°	1391.2	1330.8	1213.3	1117.2	1053.1	986.4	970.4	988.0	994.9	1034.4	1103.3
55°	1323.4	1258.2	1135.4	1041.9	972.5	907.3	894.0	900.9	915.9	953.3	1017.3
57.5°	1247.0	1182.4	1053.1	958.1	891.3	828.8	817.6	824.0	837.9	874.2	931.9
60°	1165.8	1097.5	969.3	874.2	809.6	750.3	740.2	746.1	761.0	794.1	847.5
62.5°	1085.7	1008.8	882.8	788.2	729.5	674.5	671.8	669.7	683.6	715.6	762.6
65°	988.5	914.8	792.5	702.8	649.4	599.7	589.0	593.9	607.2	636.6	685.7
67.5°	884.4	817.6	700.1	617.4	569.8	525.5	516.4	518.6	532.4	558.1	600.8
70°	773.8	715.1	605.6	531.4	491.3	449.7	443.8	444.3	457.7	480.1	517.5
72.5°	657.9	605.1	510.0	446.5	413.3	383.4	378.1	371.7	384.0	403.2	435.2
75°	539.9	493.5	414.9	363.1	337.0	311.9	307.1	300.7	312.9	329.5	354.6
77.5°	420.8	383.4	322.6	282.5	262.2	243.5	239.2	232.3	244.6	256.9	276.6
80°	304.4	277.2	240.9	198.7	191.7	179.4	175.2	167.7	179.4	187.4	202.4
82.5°	196.5	178.4	157.5	128.2	127.1	118.0	115.9	107.3	118.0	122.8	134.0
85°	99.3	90.8	85.4	65.2	67.3	61.4	60.9	51.8	60.3	62.5	68.9
87.5°	28.3	29.9	26.7	16.0	20.3	19.2	19.2	13.9	19.2	19.2	21.9
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: P837854

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6LO-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4	2289.4
2.5°	2291.6	2300.6	2302.8	2302.2	2308.1	2340.2	2329.5	2340.2
5°	2296.9	2317.2	2322.5	2330.0	2339.6	2375.9	2364.2	2377.0
7.5°	2300.1	2330.6	2342.3	2356.7	2372.2	2412.8	2403.2	2416.0
10°	2300.1	2339.6	2356.7	2380.8	2401.6	2448.6	2439.5	2454.4
12.5°	2290.5	2341.2	2365.3	2398.9	2425.6	2476.3	2472.6	2483.3
15°	2270.7	2333.2	2366.3	2409.6	2442.7	2499.3	2497.7	2510.5
17.5°	2244.0	2319.3	2359.4	2413.9	2455.5	2519.1	2522.8	2529.7
20°	2210.4	2293.2	2345.5	2412.3	2464.6	2534.6	2539.4	2549.0
22.5°	2166.1	2261.7	2324.7	2405.3	2465.7	2541.0	2549.5	2558.6
25°	2113.7	2223.7	2297.4	2392.0	2460.3	2540.4	2552.2	2560.2
27.5°	2053.9	2174.6	2262.7	2370.6	2445.4	2531.9	2546.3	2555.9
30°	1984.5	2122.3	2223.2	2342.8	2425.1	2515.9	2531.3	2541.0
32.5°	1912.9	2064.6	2176.2	2307.1	2395.7	2490.2	2503.6	2511.1
35°	1835.0	1994.6	2119.6	2261.1	2357.8	2449.1	2459.3	2467.3
37.5°	1750.0	1918.8	2055.0	2209.3	2304.4	2392.0	2401.0	2410.1
40°	1662.5	1839.2	1982.4	2145.8	2240.8	2322.0	2331.6	2338.0
42.5°	1574.4	1751.1	1904.9	2071.0	2165.5	2243.5	2249.4	2255.8
45°	1485.2	1659.8	1817.9	1988.2	2081.7	2154.9	2157.0	2162.3
47.5°	1394.4	1565.3	1722.3	1893.7	1986.1	2052.8	2055.0	2059.3
50°	1303.1	1470.7	1620.3	1791.7	1882.0	1952.5	1942.8	1947.1
52.5°	1213.3	1371.4	1524.2	1681.7	1770.9	1833.4	1836.0	1827.5
55°	1125.2	1274.2	1414.7	1566.3	1651.3	1699.8	1698.2	1701.5
57.5°	1036.0	1176.0	1304.7	1443.5	1526.3	1572.2	1581.8	1570.6
60°	945.3	1076.6	1192.0	1317.5	1397.6	1436.0	1447.2	1436.6
62.5°	855.0	975.7	1080.4	1189.8	1264.1	1311.6	1310.5	1298.8
65°	764.7	874.2	967.7	1060.6	1125.2	1172.8	1170.6	1159.9
67.5°	681.4	771.7	855.5	930.8	986.9	1019.5	1030.7	1017.9
70°	589.6	667.6	741.2	801.6	848.1	877.4	888.1	876.9
72.5°	497.7	563.9	615.7	674.0	709.7	734.3	745.5	734.8
75°	406.9	461.4	503.6	549.0	574.1	594.9	607.7	597.1
77.5°	318.8	361.0	394.7	427.8	456.6	461.4	472.6	465.7
80°	235.0	265.4	290.0	311.9	332.7	334.8	343.9	339.6
82.5°	156.5	176.8	183.2	206.1	219.5	217.4	226.4	223.2
85°	82.8	95.1	106.3	113.2	120.7	113.8	121.8	118.6
87.5°	27.8	29.4	25.6	36.3	40.1	34.2	39.0	37.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)