

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: P837885

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4STD-35-120-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: P837885
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-LD4-4STD-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

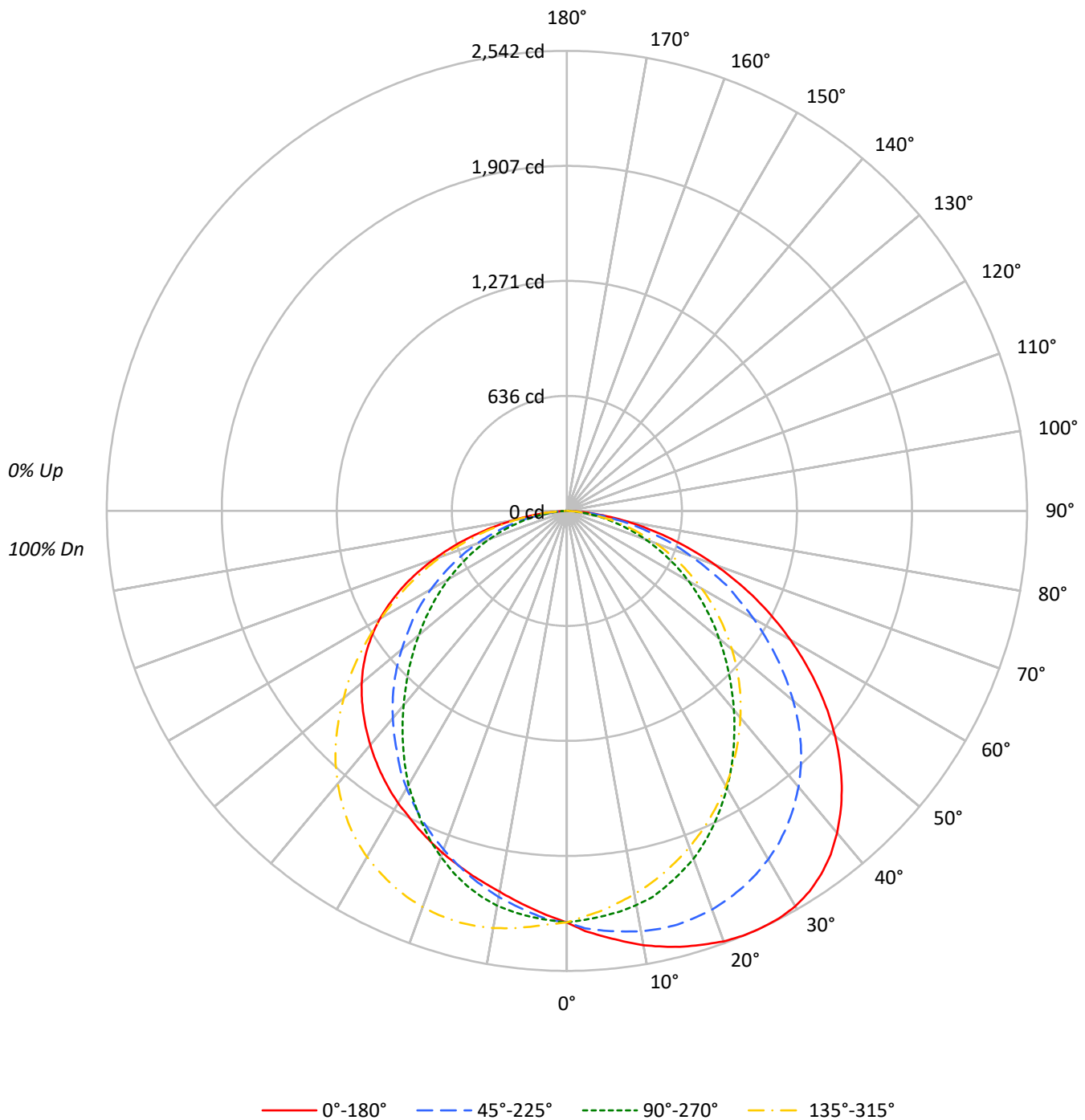
Lumens per Lamp: N/A
Luminaire Lumens: 6670.5 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	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°	6118	6118	6118	6118
5°	6377	6074	5960	6084
10°	6660	6043	5839	6052
15°	6946	5966	5782	5968
20°	7249	5858	5756	5824
25°	7549	5694	5756	5636
30°	7841	5496	5794	5435
35°	8049	5270	5852	5187
40°	8156	5043	5934	4930
45°	8172	4814	6049	4693
50°	8095	4594	6197	4472
55°	7927	4389	6335	4267
60°	7678	4176	6420	4068
65°	7335	3931	6386	3840
70°	6851	3643	6159	3576
75°	6164	3248	5652	3231
80°	5227	2720	4750	2762
85°	3634	1800	3013	1849

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	3.2
10°-20°	625.1	9.4
20°-30°	958.0	14.4
30°-40°	1164.9	17.5
40°-50°	1210.9	18.2
50°-60°	1093.8	16.4
60°-70°	831.6	12.5
70°-80°	463.6	7.0
80°-90°	106.7	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°	1799.0	27.0
0°-40°	2963.8	44.4
0°-60°	5268.6	79.0
0°-90°	6670.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6670.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2274	2274	2274	2274	2274	
5°	2361	2249	2206	2252	2361	228
15°	2493	2142	2075	2142	2493	707
25°	2542	1918	1938	1898	2542	1174
35°	2450	1604	1782	1579	2450	1530
45°	2147	1265	1590	1233	2147	1653
55°	1690	936	1350	910	1690	1508
65°	1152	617	1003	603	1152	1138
75°	593	312	544	311	593	630
85°	118	58	98	60	118	148
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°	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6
2.5°	2324.0	2290.1	2290.6	2320.3	2297.5	2308.6	2276.8	2289.0	2285.3	2288.0	2262.0
5°	2360.6	2324.0	2323.5	2348.9	2323.5	2328.3	2288.0	2295.9	2284.2	2276.8	2248.7
7.5°	2399.3	2362.7	2359.0	2381.3	2347.9	2344.2	2299.6	2299.6	2278.4	2259.8	2233.3
10°	2437.5	2399.9	2395.1	2412.1	2370.7	2358.5	2304.4	2295.9	2267.8	2240.2	2211.6
12.5°	2466.2	2428.0	2424.3	2434.9	2388.2	2365.9	2304.4	2288.0	2246.6	2207.9	2185.6
15°	2493.2	2454.0	2443.9	2449.2	2395.6	2365.9	2297.0	2271.5	2218.5	2167.6	2141.6
17.5°	2512.3	2474.6	2464.6	2464.0	2399.3	2356.9	2281.1	2246.1	2182.4	2120.9	2094.9
20°	2531.4	2493.7	2481.0	2471.5	2398.3	2344.7	2257.7	2210.5	2136.3	2067.3	2045.6
22.5°	2540.9	2502.2	2488.4	2474.1	2391.4	2322.4	2229.1	2169.2	2084.3	2002.1	1984.1
25°	2542.5	2502.8	2487.9	2467.2	2377.6	2295.9	2192.0	2119.3	2024.4	1933.1	1917.8
27.5°	2538.3	2494.8	2479.9	2455.0	2356.9	2263.6	2147.9	2062.6	1960.7	1860.0	1843.5
30°	2523.4	2479.4	2465.1	2432.7	2327.7	2223.8	2099.7	1999.4	1890.2	1783.1	1768.7
32.5°	2493.7	2450.8	2439.1	2406.8	2295.9	2177.6	2043.5	1931.6	1812.2	1709.9	1688.7
35°	2450.2	2407.3	2399.9	2365.9	2251.4	2122.5	1981.9	1857.3	1729.5	1625.0	1604.3
37.5°	2393.5	2357.4	2346.3	2312.9	2198.9	2059.9	1911.4	1776.7	1645.2	1532.7	1520.0
40°	2321.9	2288.0	2279.5	2249.8	2137.9	1990.4	1835.0	1693.4	1558.2	1453.7	1435.7
42.5°	2240.2	2208.4	2203.6	2172.9	2062.6	1913.5	1752.3	1607.0	1467.5	1366.7	1348.7
45°	2147.4	2116.7	2115.6	2086.4	1980.4	1828.1	1665.3	1519.5	1378.9	1274.4	1264.9
47.5°	2045.1	2017.5	2017.5	1990.4	1888.6	1734.3	1575.7	1428.2	1289.8	1197.5	1180.6
50°	1933.7	1907.7	1899.7	1886.5	1787.3	1631.9	1481.3	1339.1	1201.8	1113.7	1097.3
52.5°	1814.9	1792.6	1797.9	1773.5	1677.5	1525.3	1385.8	1238.9	1113.2	1033.1	1016.7
55°	1689.7	1657.9	1662.7	1653.7	1563.0	1415.5	1278.7	1156.2	1026.2	950.9	935.5
57.5°	1559.8	1518.4	1535.4	1530.1	1441.0	1303.1	1180.6	1062.3	939.8	870.3	855.5
60°	1426.7	1386.9	1404.4	1399.6	1315.8	1190.6	1079.3	969.5	853.9	790.8	775.9
62.5°	1289.8	1253.2	1269.1	1265.4	1188.5	1075.6	978.5	877.7	767.4	710.7	696.9
65°	1151.9	1116.9	1131.2	1128.6	1057.5	971.6	875.1	782.8	680.4	631.1	617.3
67.5°	1010.9	978.5	991.8	991.8	926.5	844.3	771.1	686.8	595.1	552.6	539.9
70°	870.8	840.6	852.3	851.2	796.1	729.2	666.1	590.8	508.6	473.6	463.0
72.5°	729.8	703.3	713.9	712.8	666.7	623.7	561.1	495.9	424.3	396.2	386.6
75°	592.9	568.0	578.1	577.0	539.4	499.1	457.2	403.1	341.5	321.9	312.4
77.5°	462.5	437.0	445.5	445.5	417.9	388.8	355.3	313.4	270.0	248.7	241.8
80°	337.3	325.1	320.9	321.4	302.8	283.7	266.8	226.5	194.6	180.3	175.5
82.5°	221.7	211.6	207.4	208.4	197.8	186.2	175.5	147.4	126.2	117.7	115.1
85°	117.7	110.3	106.6	109.3	107.1	100.8	95.5	76.4	63.1	59.9	58.3
87.5°	37.1	32.4	29.7	39.2	33.4	29.7	28.6	22.8	17.5	17.5	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6
2.5°	2270.5	2270.5	2249.8	2245.0	2242.9	2245.5	2224.8	2221.1	2250.8	2240.8	2217.9
5°	2252.4	2251.4	2222.2	2216.9	2216.9	2213.7	2190.4	2185.1	2214.8	2206.3	2181.4
7.5°	2230.1	2227.0	2192.5	2188.8	2183.5	2181.4	2155.4	2151.7	2177.1	2171.8	2148.5
10°	2203.1	2199.9	2159.1	2156.4	2150.6	2146.4	2122.0	2119.3	2145.3	2136.8	2118.2
12.5°	2167.6	2161.7	2119.8	2117.2	2112.4	2110.8	2087.0	2085.9	2114.5	2106.0	2086.4
15°	2120.9	2116.1	2069.5	2070.5	2071.0	2071.0	2051.9	2050.9	2079.0	2075.3	2054.1
17.5°	2069.5	2063.1	2018.5	2021.7	2025.4	2029.7	2014.8	2017.5	2047.2	2042.4	2023.3
20°	2011.1	2004.7	1961.3	1970.3	1978.2	1986.7	1977.2	1984.6	2012.2	2010.1	1995.7
22.5°	1945.9	1939.5	1899.2	1913.0	1926.3	1942.2	1937.9	1946.4	1975.6	1975.0	1962.3
25°	1866.3	1867.9	1832.4	1849.4	1871.6	1893.9	1895.5	1909.3	1941.6	1938.5	1926.8
27.5°	1792.1	1794.2	1756.5	1785.2	1814.9	1843.5	1850.4	1869.5	1902.4	1899.7	1889.7
30°	1714.1	1716.8	1680.2	1719.4	1755.5	1790.5	1805.3	1831.3	1864.7	1864.7	1854.1
32.5°	1633.0	1637.7	1599.6	1652.1	1694.0	1734.8	1760.8	1787.8	1826.0	1825.0	1815.9
35°	1549.7	1555.0	1520.0	1586.8	1628.7	1678.6	1710.9	1747.0	1780.9	1781.5	1774.6
37.5°	1464.8	1471.2	1439.4	1512.6	1560.3	1619.2	1660.5	1696.6	1734.3	1736.4	1730.0
40°	1380.5	1387.4	1359.8	1430.4	1490.8	1556.6	1604.3	1646.8	1688.1	1689.2	1684.9
42.5°	1296.2	1303.6	1282.9	1351.9	1420.3	1490.8	1547.0	1595.3	1637.7	1640.4	1635.6
45°	1214.0	1220.3	1205.5	1280.8	1346.6	1423.5	1488.2	1542.8	1585.8	1589.5	1587.9
47.5°	1132.3	1138.1	1124.9	1193.8	1269.7	1351.3	1426.1	1486.6	1532.2	1536.4	1535.4
50°	1052.2	1057.0	1042.7	1114.8	1190.1	1277.1	1355.1	1425.1	1476.0	1480.2	1479.7
52.5°	972.7	977.4	965.2	1041.1	1109.5	1201.3	1286.1	1362.0	1412.3	1418.7	1419.8
55°	895.8	897.9	888.3	961.0	1027.3	1123.3	1220.9	1294.6	1345.0	1350.3	1353.5
57.5°	818.9	819.4	811.4	880.9	944.6	1042.7	1145.0	1222.5	1270.2	1275.5	1280.3
60°	742.5	742.0	733.0	800.3	861.3	958.4	1065.0	1141.9	1188.0	1192.8	1199.1
62.5°	666.7	665.1	657.1	719.2	776.4	872.4	979.6	1053.8	1097.8	1101.0	1109.5
65°	591.3	589.8	582.3	639.6	691.6	783.3	888.3	958.9	998.7	1002.9	1001.3
67.5°	517.1	513.9	508.1	559.5	606.7	691.6	792.4	859.7	892.6	896.3	906.4
70°	442.8	439.1	425.9	480.5	521.9	597.7	691.6	751.5	779.1	782.8	781.2
72.5°	369.7	365.9	351.6	402.0	437.0	503.3	587.1	637.0	660.8	664.0	664.0
75°	298.6	296.5	287.5	325.6	354.8	408.9	480.0	521.3	539.9	543.6	542.6
77.5°	230.2	228.6	219.6	252.4	275.3	315.6	372.8	405.2	419.0	423.2	432.2
80°	164.9	164.4	150.1	182.4	192.5	226.5	268.4	293.3	300.7	306.5	312.9
82.5°	105.5	106.1	91.8	119.3	123.6	145.3	171.3	186.7	192.0	196.8	201.5
85°	51.4	53.6	45.6	63.1	63.6	74.8	85.9	91.8	93.9	97.6	101.8
87.5°	13.3	15.4	8.5	18.0	15.9	20.7	23.9	25.5	24.9	27.6	29.2
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°	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6
2.5°	2225.4	2242.3	2233.9	2261.4	2272.0	2255.1	2284.8	2285.3	2264.1	2289.0	2302.8
5°	2190.9	2208.4	2203.1	2231.7	2245.0	2230.1	2266.2	2273.1	2252.4	2280.5	2302.8
7.5°	2155.9	2176.6	2169.7	2198.9	2214.8	2203.1	2241.8	2253.0	2237.0	2267.8	2297.5
10°	2125.7	2143.2	2135.7	2166.5	2180.3	2170.7	2208.9	2229.6	2214.8	2252.4	2288.0
12.5°	2096.0	2110.3	2101.8	2127.3	2140.5	2128.3	2175.0	2194.1	2183.5	2222.7	2268.3
15°	2057.8	2073.7	2062.0	2084.8	2094.9	2084.3	2122.5	2155.4	2142.1	2185.1	2235.5
17.5°	2028.6	2037.6	2021.7	2039.8	2045.6	2031.3	2070.0	2102.3	2092.8	2139.5	2197.8
20°	1996.3	2003.7	1981.4	1991.5	1991.0	1972.9	2008.5	2040.3	2033.9	2085.4	2151.7
22.5°	1960.2	1963.9	1937.9	1940.0	1939.0	1909.3	1941.1	1973.5	1970.8	2022.8	2097.0
25°	1922.0	1922.5	1889.1	1888.1	1876.4	1841.4	1869.5	1906.1	1898.1	1954.4	2032.3
27.5°	1884.4	1879.1	1838.7	1829.2	1810.6	1768.7	1793.7	1826.5	1821.8	1876.9	1963.4
30°	1844.0	1837.2	1787.8	1770.3	1743.3	1695.0	1715.7	1746.5	1749.1	1797.4	1888.1
32.5°	1805.9	1788.4	1733.7	1708.3	1674.3	1618.1	1629.3	1660.5	1664.8	1713.6	1806.9
35°	1756.5	1744.9	1677.5	1634.0	1600.6	1539.1	1550.8	1572.5	1578.9	1626.6	1721.5
37.5°	1709.9	1691.3	1619.7	1566.7	1523.7	1459.0	1462.2	1484.5	1490.8	1539.1	1633.0
40°	1661.6	1635.1	1558.2	1496.1	1446.8	1378.9	1375.2	1398.5	1403.3	1450.5	1535.4
42.5°	1610.2	1578.3	1491.9	1424.0	1367.3	1298.3	1290.9	1311.0	1316.3	1362.5	1445.8
45°	1558.2	1520.0	1424.0	1349.8	1287.7	1217.2	1209.7	1225.1	1233.1	1276.6	1356.7
47.5°	1503.0	1458.5	1354.0	1271.3	1207.1	1136.6	1127.5	1142.9	1149.3	1192.2	1268.1
50°	1445.2	1391.1	1281.9	1190.6	1127.0	1057.5	1044.3	1062.3	1068.1	1108.4	1182.7
52.5°	1381.6	1321.6	1205.0	1109.5	1045.9	979.6	963.7	981.2	988.1	1027.3	1095.7
55°	1314.2	1249.5	1127.5	1034.7	965.8	901.1	887.8	894.7	909.6	946.7	1010.3
57.5°	1238.4	1174.2	1045.9	951.5	885.2	823.1	812.0	818.3	832.1	868.2	925.5
60°	1157.8	1089.9	962.6	868.2	804.0	745.2	735.1	740.9	755.8	788.6	841.7
62.5°	1078.2	1001.8	876.7	782.8	724.5	669.8	667.2	665.1	678.9	710.7	757.3
65°	981.7	908.5	787.0	697.9	644.9	595.6	585.0	589.8	603.0	632.2	681.0
67.5°	878.3	812.0	695.3	613.1	565.9	521.9	512.9	515.0	528.8	554.2	596.7
70°	768.5	710.1	601.4	527.7	487.9	446.6	440.7	441.3	454.5	476.8	513.9
72.5°	653.4	600.9	506.5	443.4	410.5	380.8	375.5	369.1	381.3	400.4	432.2
75°	536.2	490.0	412.1	360.6	334.7	309.7	305.0	298.6	310.8	327.2	352.2
77.5°	417.9	380.8	320.3	280.6	260.4	241.8	237.6	230.7	242.9	255.1	274.7
80°	302.3	275.3	239.2	197.3	190.4	178.2	174.0	166.5	178.2	186.2	201.0
82.5°	195.2	177.1	156.5	127.3	126.2	117.2	115.1	106.6	117.2	122.0	133.1
85°	98.6	90.2	84.9	64.7	66.8	61.0	60.5	51.4	59.9	62.1	68.4
87.5°	28.1	29.7	26.5	15.9	20.2	19.1	19.1	13.8	19.1	19.1	21.7
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: P837885

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4STD-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6	2273.6
2.5°	2275.8	2284.8	2286.9	2286.4	2292.2	2324.0	2313.4	2324.0
5°	2281.1	2301.2	2306.5	2313.9	2323.5	2359.6	2347.9	2360.6
7.5°	2284.2	2314.5	2326.1	2340.5	2355.8	2396.1	2386.6	2399.3
10°	2284.2	2323.5	2340.5	2364.3	2385.0	2431.7	2422.7	2437.5
12.5°	2274.7	2325.1	2348.9	2382.4	2408.9	2459.3	2455.5	2466.2
15°	2255.1	2317.1	2350.0	2393.0	2425.8	2482.1	2480.5	2493.2
17.5°	2228.6	2303.3	2343.1	2397.2	2438.6	2501.7	2505.4	2512.3
20°	2195.1	2277.3	2329.3	2395.6	2447.6	2517.1	2521.8	2531.4
22.5°	2151.1	2246.1	2308.6	2388.7	2448.7	2523.4	2531.9	2540.9
25°	2099.2	2208.4	2281.6	2375.5	2443.4	2522.9	2534.6	2542.5
27.5°	2039.8	2159.6	2247.1	2354.3	2428.5	2514.4	2528.7	2538.3
30°	1970.8	2107.6	2207.9	2326.7	2408.3	2498.5	2513.9	2523.4
32.5°	1899.7	2050.4	2161.2	2291.1	2379.2	2473.1	2486.3	2493.7
35°	1822.3	1980.9	2105.0	2245.5	2341.5	2432.2	2442.3	2450.2
37.5°	1738.0	1905.6	2040.8	2194.1	2288.5	2375.5	2384.5	2393.5
40°	1651.0	1826.5	1968.7	2131.0	2225.4	2306.0	2315.5	2321.9
42.5°	1563.5	1739.0	1891.8	2056.7	2150.6	2228.0	2233.9	2240.2
45°	1474.9	1648.3	1805.3	1974.5	2067.3	2140.0	2142.1	2147.4
47.5°	1384.8	1554.5	1710.4	1880.6	1972.4	2038.7	2040.8	2045.1
50°	1294.1	1460.6	1609.1	1779.3	1869.0	1939.0	1929.4	1933.7
52.5°	1205.0	1362.0	1513.6	1670.1	1758.7	1820.7	1823.4	1814.9
55°	1117.5	1265.4	1404.9	1555.5	1639.9	1688.1	1686.5	1689.7
57.5°	1028.9	1167.8	1295.7	1433.6	1515.8	1561.4	1570.9	1559.8
60°	938.7	1069.2	1183.8	1308.4	1387.9	1426.1	1437.3	1426.7
62.5°	849.1	969.0	1072.9	1181.6	1255.4	1302.6	1301.5	1289.8
65°	759.5	868.2	961.0	1053.3	1117.5	1164.7	1162.5	1151.9
67.5°	676.7	766.4	849.6	924.4	980.1	1012.5	1023.6	1010.9
70°	585.5	662.9	736.1	796.1	842.2	871.4	882.0	870.8
72.5°	494.3	560.1	611.5	669.3	704.8	729.2	740.4	729.8
75°	404.1	458.2	500.1	545.2	570.1	590.8	603.5	592.9
77.5°	316.6	358.5	391.9	424.8	453.5	458.2	469.4	462.5
80°	233.4	263.6	288.0	309.7	330.4	332.5	341.5	337.3
82.5°	155.4	175.5	181.9	204.7	218.0	215.9	224.9	221.7
85°	82.2	94.4	105.5	112.4	119.9	113.0	120.9	117.7
87.5°	27.6	29.2	25.5	36.1	39.8	33.9	38.7	37.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)