

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: P837976

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4HI-30-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837976
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-LD4-4HI-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

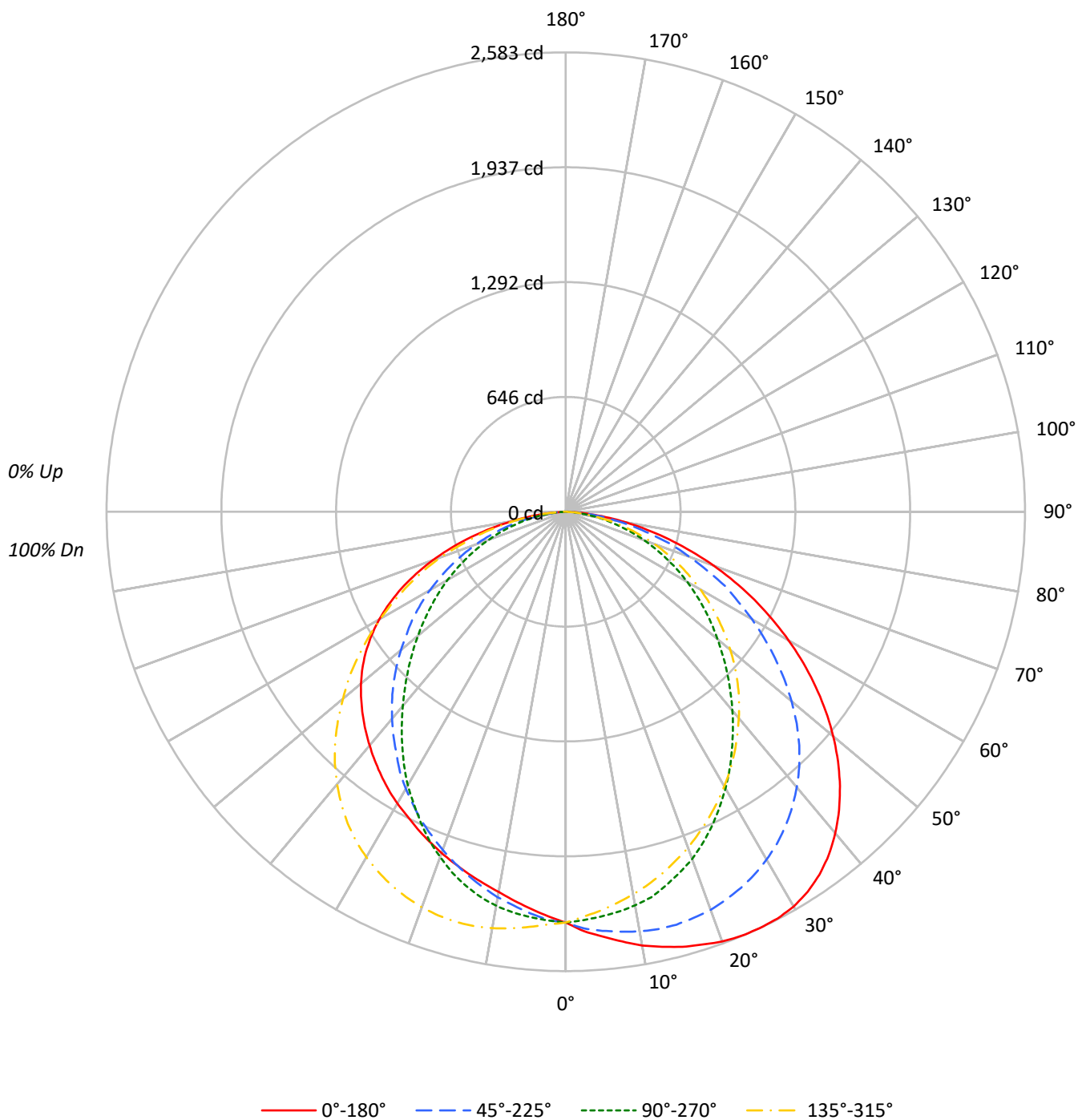
Lumens per Lamp: N/A
Luminaire Lumens: 6776.6 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	6216	6216	6216	6216
5°	6478	6171	6055	6181
10°	6766	6139	5932	6148
15°	7056	6061	5874	6063
20°	7364	5951	5848	5917
25°	7669	5785	5847	5725
30°	7966	5583	5886	5521
35°	8177	5354	5945	5269
40°	8286	5123	6028	5008
45°	8302	4890	6145	4767
50°	8224	4667	6296	4543
55°	8054	4459	6436	4335
60°	7800	4242	6521	4132
65°	7452	3994	6488	3901
70°	6961	3701	6257	3633
75°	6263	3299	5742	3282
80°	5311	2763	4826	2805
85°	3693	1831	3060	1880

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	3.2
10°-20°	635.0	9.4
20°-30°	973.2	14.4
30°-40°	1183.4	17.5
40°-50°	1230.2	18.2
50°-60°	1111.2	16.4
60°-70°	844.8	12.5
70°-80°	471.0	7.0
80°-90°	108.4	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°	1827.6	27.0
0°-40°	3010.9	44.4
0°-60°	5352.4	79.0
0°-90°	6776.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6776.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2310	2310	2310	2310	2310	
5°	2398	2284	2241	2288	2398	231
15°	2533	2176	2108	2176	2533	718
25°	2583	1948	1969	1928	2583	1193
35°	2489	1630	1810	1604	2489	1555
45°	2182	1285	1615	1253	2182	1680
55°	1717	950	1372	924	1717	1532
65°	1170	627	1019	613	1170	1156
75°	602	317	552	316	602	640
85°	120	59	99	61	120	151
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°	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8
2.5°	2361.0	2326.5	2327.0	2357.2	2334.0	2345.4	2313.0	2325.4	2321.6	2324.3	2297.9
5°	2398.2	2361.0	2360.4	2386.3	2360.4	2365.3	2324.3	2332.4	2320.6	2313.0	2284.5
7.5°	2437.5	2400.3	2396.5	2419.2	2385.2	2381.5	2336.2	2336.2	2314.6	2295.8	2268.8
10°	2476.3	2438.0	2433.2	2450.4	2408.4	2396.0	2341.0	2332.4	2303.9	2275.8	2246.8
12.5°	2505.4	2466.6	2462.8	2473.6	2426.2	2403.5	2341.0	2324.3	2282.3	2243.0	2220.4
15°	2532.9	2493.0	2482.7	2488.1	2433.7	2403.5	2333.5	2307.6	2253.8	2202.0	2175.6
17.5°	2552.2	2514.0	2503.8	2503.2	2437.5	2394.4	2317.3	2281.8	2217.1	2154.6	2128.2
20°	2571.6	2533.4	2520.5	2510.8	2436.4	2382.0	2293.6	2245.7	2170.2	2100.2	2078.1
22.5°	2581.3	2542.0	2528.0	2513.5	2429.4	2359.4	2264.5	2203.7	2117.4	2033.9	2015.6
25°	2583.0	2542.6	2527.5	2506.5	2415.4	2332.4	2226.8	2153.0	2056.6	1963.9	1948.3
27.5°	2578.6	2534.5	2519.4	2494.1	2394.4	2299.6	2182.1	2095.4	1991.9	1889.5	1872.8
30°	2563.6	2518.8	2504.3	2471.4	2364.7	2259.1	2133.1	2031.2	1920.2	1811.4	1796.9
32.5°	2533.4	2489.7	2477.9	2445.0	2332.4	2212.3	2076.0	1962.3	1841.0	1737.1	1715.5
35°	2489.2	2445.6	2438.0	2403.5	2287.2	2156.2	2013.5	1886.8	1757.0	1650.9	1629.8
37.5°	2431.6	2394.9	2383.6	2349.7	2233.8	2092.7	1941.8	1804.9	1671.3	1557.1	1544.2
40°	2358.8	2324.3	2315.7	2285.5	2171.9	2022.1	1864.2	1720.4	1583.0	1476.8	1458.5
42.5°	2275.8	2243.5	2238.7	2207.4	2095.4	1944.0	1780.2	1632.5	1490.8	1388.5	1370.1
45°	2181.6	2150.3	2149.2	2119.6	2011.8	1857.2	1691.8	1543.6	1400.9	1294.7	1285.0
47.5°	2077.6	2049.6	2049.6	2022.1	1918.6	1761.8	1600.7	1451.0	1310.3	1216.6	1199.3
50°	1964.4	1938.0	1929.9	1916.5	1815.7	1657.9	1504.8	1360.4	1220.9	1131.5	1114.8
52.5°	1843.7	1821.1	1826.5	1801.7	1704.2	1549.6	1407.9	1258.6	1130.9	1049.6	1032.9
55°	1716.6	1684.3	1689.1	1679.9	1587.8	1438.0	1299.0	1174.6	1042.6	966.1	950.4
57.5°	1584.6	1542.6	1559.8	1554.4	1463.9	1323.8	1199.3	1079.2	954.7	884.2	869.1
60°	1449.3	1408.9	1426.7	1421.9	1336.7	1209.6	1096.4	984.9	867.5	803.3	788.2
62.5°	1310.3	1273.2	1289.3	1285.6	1207.4	1092.7	994.1	891.7	779.6	722.0	708.0
65°	1170.3	1134.7	1149.2	1146.5	1074.3	987.1	889.0	795.3	691.3	641.2	627.2
67.5°	1026.9	994.1	1007.5	1007.5	941.3	857.8	783.4	697.7	604.5	561.4	548.5
70°	884.7	854.0	865.8	864.8	808.7	740.8	676.7	600.2	516.7	481.1	470.4
72.5°	741.4	714.4	725.2	724.1	677.3	633.6	570.0	503.8	431.0	402.5	392.8
75°	602.4	577.0	587.3	586.2	547.9	507.0	464.4	409.5	347.0	327.0	317.3
77.5°	469.8	444.0	452.6	452.6	424.6	394.9	361.0	318.4	274.2	252.7	245.7
80°	342.7	330.3	326.0	326.5	307.6	288.3	271.0	230.1	197.7	183.2	178.3
82.5°	225.2	215.0	210.7	211.7	201.0	189.1	178.3	149.8	128.2	119.6	116.9
85°	119.6	112.1	108.3	111.0	108.8	102.4	97.0	77.6	64.1	60.9	59.3
87.5°	37.7	32.9	30.2	39.9	33.9	30.2	29.1	23.2	17.8	17.8	17.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8
2.5°	2306.6	2306.6	2285.5	2280.7	2278.5	2281.2	2260.2	2256.5	2286.6	2276.4	2253.2
5°	2288.2	2287.2	2257.5	2252.1	2252.1	2248.9	2225.2	2219.8	2250.0	2241.4	2216.0
7.5°	2265.6	2262.4	2227.4	2223.6	2218.2	2216.0	2189.6	2185.9	2211.7	2206.3	2182.6
10°	2238.1	2234.9	2193.4	2190.7	2184.8	2180.5	2155.7	2153.0	2179.4	2170.8	2151.9
12.5°	2202.0	2196.1	2153.5	2150.8	2146.0	2144.4	2120.1	2119.1	2148.2	2139.5	2119.6
15°	2154.6	2149.8	2102.4	2103.4	2104.0	2104.0	2084.6	2083.5	2112.1	2108.3	2086.7
17.5°	2102.4	2095.9	2050.6	2053.9	2057.6	2061.9	2046.9	2049.6	2079.7	2074.9	2055.5
20°	2043.1	2036.6	1992.4	2001.6	2009.7	2018.3	2008.6	2016.2	2044.2	2042.0	2027.5
22.5°	1976.8	1970.4	1929.4	1943.4	1956.9	1973.0	1968.7	1977.4	2007.0	2006.5	1993.5
25°	1896.0	1897.6	1861.5	1878.8	1901.4	1924.0	1925.6	1939.6	1972.5	1969.3	1957.4
27.5°	1820.6	1822.7	1784.5	1813.6	1843.7	1872.8	1879.8	1899.2	1932.6	1929.9	1919.7
30°	1741.4	1744.1	1706.9	1746.8	1783.4	1819.0	1834.0	1860.4	1894.4	1894.4	1883.6
32.5°	1658.9	1663.8	1625.0	1678.3	1720.9	1762.4	1788.8	1816.3	1855.1	1854.0	1844.8
35°	1574.3	1579.7	1544.2	1612.1	1654.6	1705.3	1738.1	1774.8	1809.3	1809.8	1802.8
37.5°	1488.1	1494.6	1462.3	1536.6	1585.1	1644.9	1687.0	1723.6	1761.8	1764.0	1757.5
40°	1402.5	1409.5	1381.5	1453.1	1514.5	1581.3	1629.8	1672.9	1715.0	1716.0	1711.7
42.5°	1316.8	1324.3	1303.3	1373.4	1442.9	1514.5	1571.7	1620.7	1663.8	1666.5	1661.6
45°	1233.3	1239.8	1224.7	1301.2	1368.0	1446.1	1511.8	1567.3	1611.0	1614.8	1613.1
47.5°	1150.3	1156.2	1142.8	1212.8	1289.9	1372.8	1448.8	1510.2	1556.6	1560.9	1559.8
50°	1069.0	1073.8	1059.3	1132.5	1209.0	1297.4	1376.6	1447.7	1499.5	1503.8	1503.2
52.5°	988.1	993.0	980.6	1057.6	1127.1	1220.4	1306.6	1383.6	1434.8	1441.3	1442.3
55°	910.0	912.2	902.5	976.3	1043.6	1141.2	1240.3	1315.2	1366.4	1371.8	1375.0
57.5°	831.9	832.4	824.3	894.9	959.6	1059.3	1163.2	1241.9	1290.4	1295.8	1300.6
60°	754.3	753.8	744.6	813.0	875.0	973.6	1081.9	1160.0	1206.9	1211.7	1218.2
62.5°	677.3	675.6	667.6	730.6	788.8	886.3	995.1	1070.6	1115.3	1118.5	1127.1
65°	600.8	599.1	591.6	649.8	702.6	795.8	902.5	974.1	1014.5	1018.9	1017.2
67.5°	525.3	522.1	516.2	568.4	616.4	702.6	805.0	873.4	906.8	910.6	920.8
70°	449.9	446.1	432.6	488.1	530.2	607.2	702.6	763.5	791.5	795.3	793.6
72.5°	375.5	371.8	357.2	408.4	444.0	511.3	596.4	647.1	671.3	674.6	674.6
75°	303.3	301.2	292.0	330.8	360.5	415.4	487.6	529.6	548.5	552.3	551.2
77.5°	233.8	232.2	223.1	256.5	279.6	320.6	378.8	411.6	425.6	430.0	439.1
80°	167.6	167.0	152.5	185.3	195.6	230.1	272.6	298.0	305.5	311.4	317.9
82.5°	107.2	107.8	93.2	121.2	125.5	147.6	174.0	189.7	195.0	199.9	204.7
85°	52.3	54.4	46.3	64.1	64.7	76.0	87.3	93.2	95.4	99.1	103.4
87.5°	13.5	15.6	8.6	18.3	16.2	21.0	24.2	25.9	25.3	28.0	29.6
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°	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8
2.5°	2260.8	2278.0	2269.4	2297.4	2308.2	2290.9	2321.1	2321.6	2300.1	2325.4	2339.4
5°	2225.7	2243.5	2238.1	2267.2	2280.7	2265.6	2302.2	2309.3	2288.2	2316.8	2339.4
7.5°	2190.2	2211.2	2204.2	2233.8	2250.0	2238.1	2277.5	2288.8	2272.6	2303.9	2334.0
10°	2159.5	2177.3	2169.7	2201.0	2215.0	2205.3	2244.1	2265.1	2250.0	2288.2	2324.3
12.5°	2129.3	2143.8	2135.2	2161.1	2174.6	2162.2	2209.6	2229.0	2218.2	2258.1	2304.4
15°	2090.5	2106.7	2094.8	2118.0	2128.2	2117.4	2156.2	2189.6	2176.2	2219.8	2271.0
17.5°	2060.9	2070.0	2053.9	2072.2	2078.1	2063.6	2102.9	2135.8	2126.1	2173.5	2232.7
20°	2028.0	2035.5	2012.9	2023.2	2022.6	2004.3	2040.4	2072.7	2066.3	2118.5	2185.9
22.5°	1991.4	1995.1	1968.7	1970.9	1969.8	1939.6	1972.0	2004.8	2002.1	2054.9	2130.4
25°	1952.6	1953.1	1919.2	1918.1	1906.2	1870.7	1899.2	1936.4	1928.3	1985.4	2064.6
27.5°	1914.3	1908.9	1868.0	1858.3	1839.4	1796.9	1822.2	1855.6	1850.7	1906.8	1994.6
30°	1873.4	1866.4	1816.3	1798.5	1771.0	1722.0	1743.0	1774.2	1776.9	1826.0	1918.1
32.5°	1834.6	1816.8	1761.3	1735.4	1701.0	1643.8	1655.2	1687.0	1691.3	1740.8	1835.7
35°	1784.5	1772.6	1704.2	1660.0	1626.1	1563.6	1575.4	1597.5	1604.0	1652.5	1748.9
37.5°	1737.1	1718.2	1645.5	1591.6	1547.9	1482.2	1485.4	1508.1	1514.5	1563.6	1658.9
40°	1688.0	1661.1	1583.0	1519.9	1469.8	1400.9	1397.1	1420.8	1425.6	1473.6	1559.8
42.5°	1635.8	1603.4	1515.6	1446.7	1389.0	1319.0	1311.4	1331.9	1337.3	1384.2	1468.7
45°	1583.0	1544.2	1446.7	1371.2	1308.2	1236.5	1229.0	1244.6	1252.7	1296.9	1378.2
47.5°	1526.9	1481.7	1375.5	1291.5	1226.3	1154.6	1145.5	1161.1	1167.6	1211.2	1288.2
50°	1468.2	1413.2	1302.3	1209.6	1144.9	1074.3	1060.9	1079.2	1085.1	1126.1	1201.5
52.5°	1403.5	1342.7	1224.1	1127.1	1062.5	995.1	979.0	996.8	1003.8	1043.6	1113.1
55°	1335.1	1269.4	1145.5	1051.2	981.1	915.4	901.9	908.9	924.0	961.7	1026.4
57.5°	1258.1	1192.9	1062.5	966.6	899.2	836.2	824.9	831.4	845.4	882.0	940.2
60°	1176.2	1107.2	977.9	882.0	816.8	757.0	746.8	752.7	767.8	801.2	855.1
62.5°	1095.4	1017.8	890.6	795.3	736.0	680.5	677.8	675.6	689.7	722.0	769.4
65°	997.3	922.9	799.6	709.0	655.2	605.1	594.3	599.1	612.6	642.2	691.8
67.5°	892.2	824.9	706.4	622.8	574.9	530.2	521.0	523.2	537.2	563.0	606.1
70°	780.7	721.4	611.0	536.1	495.7	453.7	447.7	448.3	461.7	484.4	522.1
72.5°	663.8	610.4	514.5	450.4	417.0	386.9	381.5	375.0	387.4	406.8	439.1
75°	544.7	497.8	418.6	366.4	340.0	314.7	309.8	303.3	315.7	332.4	357.8
77.5°	424.6	386.9	325.4	285.0	264.5	245.7	241.4	234.4	246.8	259.2	279.1
80°	307.1	279.6	243.0	200.4	193.4	181.0	176.7	169.2	181.0	189.1	204.2
82.5°	198.3	180.0	158.9	129.3	128.2	119.1	116.9	108.3	119.1	123.9	135.2
85°	100.2	91.6	86.2	65.7	67.9	62.0	61.4	52.3	60.9	63.0	69.5
87.5°	28.6	30.2	26.9	16.2	20.5	19.4	19.4	14.0	19.4	19.4	22.1
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: P837976

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8
2.5°	2311.9	2321.1	2323.3	2322.7	2328.7	2361.0	2350.2	2361.0
5°	2317.3	2337.8	2343.2	2350.7	2360.4	2397.1	2385.2	2398.2
7.5°	2320.6	2351.3	2363.1	2377.7	2393.3	2434.3	2424.6	2437.5
10°	2320.6	2360.4	2377.7	2401.9	2422.9	2470.4	2461.2	2476.3
12.5°	2310.9	2362.1	2386.3	2420.2	2447.2	2498.4	2494.6	2505.4
15°	2290.9	2354.0	2387.4	2431.0	2464.4	2521.5	2519.9	2532.9
17.5°	2264.0	2340.0	2380.4	2435.3	2477.4	2541.5	2545.2	2552.2
20°	2230.1	2313.6	2366.4	2433.7	2486.5	2557.1	2561.9	2571.6
22.5°	2185.3	2281.8	2345.4	2426.7	2487.6	2563.6	2572.2	2581.3
25°	2132.5	2243.5	2317.9	2413.2	2482.2	2563.0	2574.9	2583.0
27.5°	2072.2	2194.0	2282.9	2391.7	2467.1	2554.4	2569.0	2578.6
30°	2002.1	2141.2	2243.0	2363.7	2446.6	2538.2	2553.9	2563.6
32.5°	1929.9	2083.0	2195.6	2327.6	2417.0	2512.4	2525.8	2533.4
35°	1851.3	2012.4	2138.5	2281.2	2378.8	2470.9	2481.1	2489.2
37.5°	1765.6	1935.9	2073.3	2229.0	2324.9	2413.2	2422.4	2431.6
40°	1677.3	1855.6	2000.0	2164.9	2260.8	2342.7	2352.4	2358.8
42.5°	1588.4	1766.7	1921.9	2089.4	2184.8	2263.5	2269.4	2275.8
45°	1498.4	1674.6	1834.0	2005.9	2100.2	2174.0	2176.2	2181.6
47.5°	1406.8	1579.2	1737.6	1910.5	2003.8	2071.1	2073.3	2077.6
50°	1314.6	1483.8	1634.7	1807.6	1898.7	1969.8	1960.1	1964.4
52.5°	1224.1	1383.6	1537.7	1696.6	1786.6	1849.7	1852.4	1843.7
55°	1135.2	1285.6	1427.3	1580.3	1665.9	1715.0	1713.4	1716.6
57.5°	1045.3	1186.4	1316.3	1456.3	1539.9	1586.2	1595.9	1584.6
60°	953.7	1086.2	1202.6	1329.2	1410.0	1448.8	1460.1	1449.3
62.5°	862.6	984.4	1090.0	1200.4	1275.3	1323.3	1322.2	1310.3
65°	771.5	882.0	976.3	1070.0	1135.2	1183.2	1181.0	1170.3
67.5°	687.5	778.6	863.1	939.1	995.7	1028.6	1039.9	1026.9
70°	594.8	673.5	747.8	808.7	855.6	885.2	896.0	884.7
72.5°	502.2	569.0	621.2	680.0	716.1	740.8	752.2	741.4
75°	410.6	465.5	508.1	553.9	579.2	600.2	613.1	602.4
77.5°	321.7	364.2	398.2	431.6	460.7	465.5	476.8	469.8
80°	237.1	267.8	292.6	314.7	335.7	337.8	347.0	342.7
82.5°	157.9	178.3	184.8	208.0	221.4	219.3	228.4	225.2
85°	83.5	95.9	107.2	114.2	121.8	114.8	122.8	119.6
87.5°	28.0	29.6	25.9	36.6	40.4	34.5	39.3	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)