

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: P838012

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4HI-40-120-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: P838012
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-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

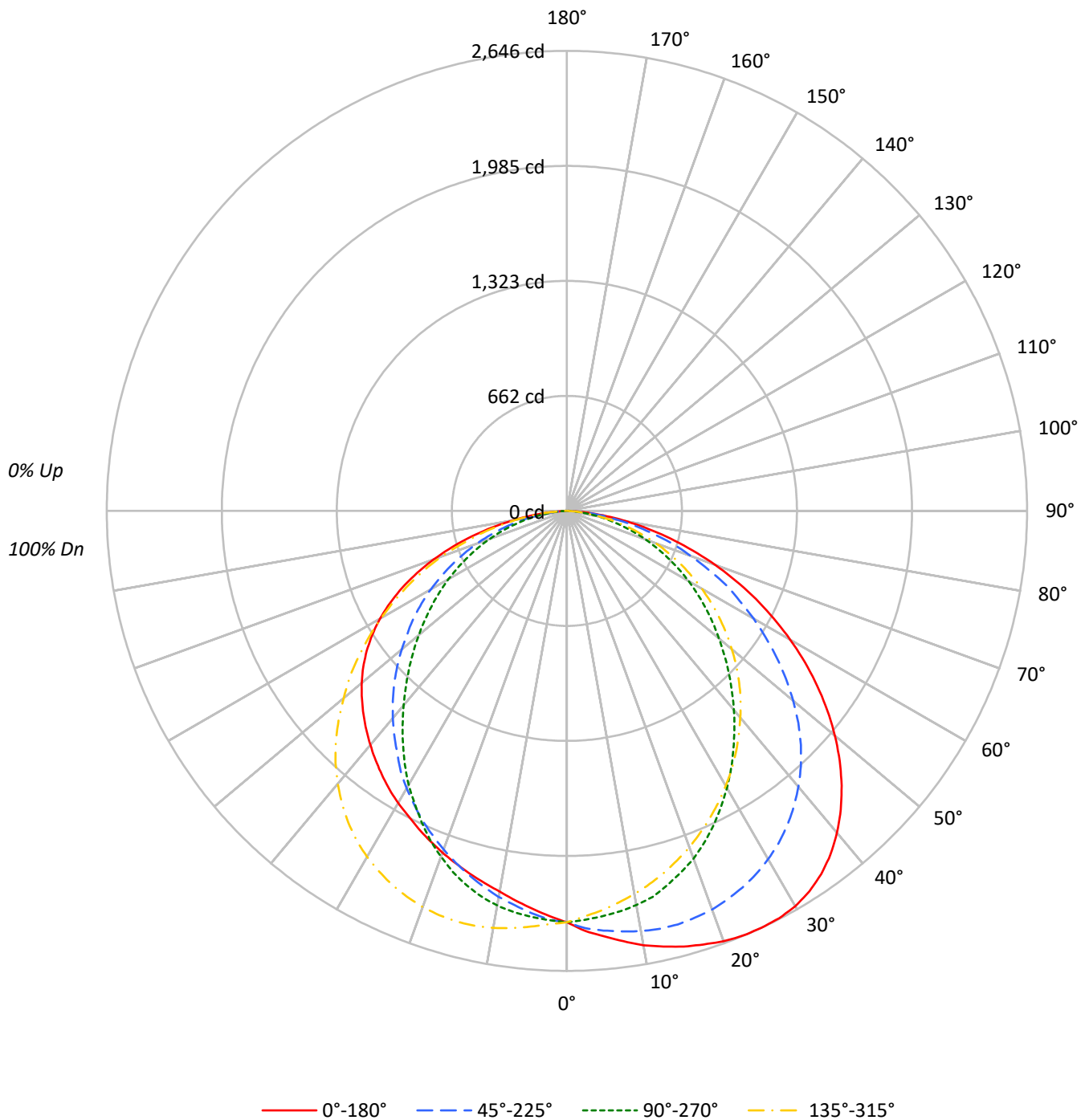
Lumens per Lamp: N/A
Luminaire Lumens: 6941.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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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°	6367	6367	6367	6367
5°	6636	6321	6202	6332
10°	6932	6289	6076	6298
15°	7228	6209	6017	6211
20°	7544	6096	5990	6062
25°	7856	5926	5990	5865
30°	8160	5720	6030	5656
35°	8377	5485	6090	5398
40°	8488	5249	6175	5130
45°	8505	5010	6295	4883
50°	8424	4780	6449	4654
55°	8250	4568	6593	4441
60°	7991	4346	6681	4233
65°	7633	4090	6646	3996
70°	7131	3791	6410	3722
75°	6416	3380	5882	3362
80°	5439	2831	4943	2873
85°	3782	1874	3137	1927

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	3.2
10°-20°	650.5	9.4
20°-30°	997.0	14.4
30°-40°	1212.2	17.5
40°-50°	1260.2	18.2
50°-60°	1138.3	16.4
60°-70°	865.4	12.5
70°-80°	482.5	7.0
80°-90°	111.1	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°	1872.1	27.0
0°-40°	3084.4	44.4
0°-60°	5482.9	79.0
0°-90°	6941.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6941.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2366	2366	2366	2366	2366	
5°	2457	2340	2296	2344	2457	237
15°	2595	2229	2160	2229	2595	736
25°	2646	1996	2017	1975	2646	1222
35°	2550	1670	1854	1643	2550	1593
45°	2235	1316	1654	1283	2235	1721
55°	1758	974	1405	947	1758	1570
65°	1199	642	1044	628	1199	1185
75°	617	325	566	323	617	655
85°	122	61	102	62	122	154
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°	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1
2.5°	2418.6	2383.2	2383.8	2414.7	2391.0	2402.6	2369.4	2382.1	2378.3	2381.0	2354.0
5°	2456.6	2418.6	2418.0	2444.5	2418.0	2423.0	2381.0	2389.3	2377.2	2369.4	2340.2
7.5°	2496.9	2458.9	2455.0	2478.2	2443.4	2439.5	2393.2	2393.2	2371.1	2351.8	2324.2
10°	2536.7	2497.5	2492.5	2510.2	2467.1	2454.4	2398.1	2389.3	2360.1	2331.4	2301.6
12.5°	2566.5	2526.7	2522.9	2533.9	2485.3	2462.2	2398.1	2381.0	2338.0	2297.7	2274.5
15°	2594.6	2553.8	2543.3	2548.8	2493.1	2462.2	2390.4	2363.9	2308.7	2255.7	2228.7
17.5°	2614.5	2575.3	2564.8	2564.3	2496.9	2452.8	2373.9	2337.4	2271.2	2207.2	2180.1
20°	2634.4	2595.2	2581.9	2572.0	2495.8	2440.1	2349.6	2300.4	2223.2	2151.4	2128.8
22.5°	2644.3	2604.0	2589.7	2574.8	2488.7	2416.9	2319.8	2257.4	2169.1	2083.5	2064.8
25°	2646.0	2604.6	2589.1	2567.6	2474.3	2389.3	2281.1	2205.5	2106.7	2011.8	1995.8
27.5°	2641.5	2596.3	2580.8	2554.9	2452.8	2355.6	2235.3	2146.5	2040.5	1935.6	1918.5
30°	2626.1	2580.3	2565.4	2531.7	2422.4	2314.2	2185.1	2080.8	1967.1	1855.6	1840.7
32.5°	2595.2	2550.5	2538.3	2504.7	2389.3	2266.2	2126.6	2010.1	1885.9	1779.4	1757.3
35°	2549.9	2505.2	2497.5	2462.2	2342.9	2208.8	2062.6	1932.9	1799.8	1691.1	1669.6
37.5°	2490.9	2453.3	2441.7	2407.0	2288.3	2143.7	1989.2	1849.0	1712.1	1595.1	1581.8
40°	2416.4	2381.0	2372.2	2341.3	2224.8	2071.4	1909.7	1762.3	1621.6	1512.8	1494.1
42.5°	2331.4	2298.2	2293.3	2261.3	2146.5	1991.4	1823.6	1672.4	1527.2	1422.3	1403.6
45°	2234.8	2202.8	2201.7	2171.3	2060.9	1902.5	1733.1	1581.3	1435.0	1326.3	1316.4
47.5°	2128.2	2099.5	2099.5	2071.4	1965.4	1804.8	1639.8	1486.4	1342.3	1246.3	1228.6
50°	2012.3	1985.3	1977.0	1963.2	1860.0	1698.3	1541.5	1393.6	1250.7	1159.1	1141.9
52.5°	1888.7	1865.5	1871.0	1845.7	1745.8	1587.4	1442.2	1289.3	1158.5	1075.2	1058.1
55°	1758.5	1725.3	1730.3	1720.9	1626.5	1473.1	1330.7	1203.2	1068.0	989.6	973.6
57.5°	1623.2	1580.2	1597.8	1592.3	1499.6	1356.1	1228.6	1105.5	978.0	905.7	890.3
60°	1484.7	1443.3	1461.5	1456.5	1369.3	1239.1	1123.2	1008.9	888.6	822.9	807.5
62.5°	1342.3	1304.2	1320.8	1316.9	1236.9	1119.3	1018.3	913.4	798.6	739.6	725.2
65°	1198.8	1162.4	1177.3	1174.5	1100.6	1011.1	910.7	814.7	708.1	656.8	642.4
67.5°	1052.0	1018.3	1032.1	1032.1	964.2	878.7	802.5	714.8	619.3	575.1	561.9
70°	906.3	874.8	887.0	885.8	828.4	758.9	693.2	614.9	529.3	492.9	481.8
72.5°	759.5	731.9	742.9	741.8	693.8	649.1	583.9	516.1	441.5	412.3	402.4
75°	617.1	591.1	601.6	600.5	561.3	519.4	475.8	419.5	355.4	335.0	325.1
77.5°	481.3	454.8	463.6	463.6	434.9	404.6	369.8	326.2	280.9	258.9	251.7
80°	351.0	338.3	333.9	334.5	315.2	295.3	277.6	235.7	202.6	187.7	182.7
82.5°	230.7	220.2	215.8	216.9	205.9	193.7	182.7	153.4	131.4	122.5	119.8
85°	122.5	114.8	110.9	113.7	111.5	104.9	99.3	79.5	65.7	62.4	60.7
87.5°	38.6	33.7	30.9	40.8	34.8	30.9	29.8	23.7	18.2	18.2	17.7
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°	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1
2.5°	2362.8	2362.8	2341.3	2336.3	2334.1	2336.9	2315.4	2311.5	2342.4	2331.9	2308.2
5°	2344.1	2342.9	2312.6	2307.1	2307.1	2303.8	2279.5	2274.0	2304.9	2296.0	2270.1
7.5°	2320.9	2317.6	2281.7	2277.8	2272.3	2270.1	2243.0	2239.2	2265.7	2260.2	2235.9
10°	2292.7	2289.4	2246.9	2244.2	2238.1	2233.7	2208.3	2205.5	2232.6	2223.7	2204.4
12.5°	2255.7	2249.7	2206.1	2203.3	2198.3	2196.7	2171.8	2170.7	2200.5	2191.7	2171.3
15°	2207.2	2202.2	2153.6	2154.7	2155.3	2155.3	2135.4	2134.3	2163.6	2159.7	2137.6
17.5°	2153.6	2147.0	2100.7	2104.0	2107.8	2112.2	2096.8	2099.5	2130.5	2125.5	2105.6
20°	2092.9	2086.3	2041.0	2050.4	2058.7	2067.5	2057.6	2065.3	2094.0	2091.8	2076.9
22.5°	2025.0	2018.4	1976.5	1990.8	2004.6	2021.2	2016.8	2025.6	2055.9	2055.4	2042.1
25°	1942.2	1943.9	1906.9	1924.6	1947.8	1970.9	1972.6	1987.0	2020.6	2017.3	2005.2
27.5°	1865.0	1867.2	1828.0	1857.8	1888.7	1918.5	1925.7	1945.6	1979.8	1977.0	1966.5
30°	1783.8	1786.6	1748.5	1789.4	1826.9	1863.3	1878.8	1905.8	1940.6	1940.6	1929.6
32.5°	1699.4	1704.4	1664.6	1719.3	1762.9	1805.4	1832.4	1860.6	1900.3	1899.2	1889.8
35°	1612.7	1618.3	1581.8	1651.4	1695.0	1746.9	1780.5	1818.1	1853.4	1853.9	1846.8
37.5°	1524.4	1531.1	1497.9	1574.1	1623.8	1685.0	1728.1	1765.6	1804.8	1807.0	1800.4
40°	1436.7	1443.9	1415.2	1488.6	1551.5	1619.9	1669.6	1713.7	1756.8	1757.9	1753.5
42.5°	1348.9	1356.6	1335.1	1406.9	1478.1	1551.5	1610.0	1660.2	1704.4	1707.1	1702.2
45°	1263.4	1270.0	1254.5	1332.9	1401.4	1481.4	1548.7	1605.6	1650.3	1654.1	1652.5
47.5°	1178.4	1184.4	1170.6	1242.4	1321.3	1406.3	1484.1	1547.1	1594.5	1598.9	1597.8
50°	1095.0	1100.0	1085.1	1160.2	1238.5	1329.1	1410.2	1483.0	1536.0	1540.4	1539.9
52.5°	1012.2	1017.2	1004.5	1083.4	1154.6	1250.1	1338.4	1417.4	1469.8	1476.4	1477.5
55°	932.2	934.4	924.5	1000.1	1069.1	1169.0	1270.5	1347.3	1399.7	1405.2	1408.5
57.5°	852.2	852.7	844.5	916.8	983.0	1085.1	1191.6	1272.2	1321.9	1327.4	1332.4
60°	772.7	772.2	762.8	832.9	896.3	997.3	1108.3	1188.3	1236.3	1241.3	1247.9
62.5°	693.8	692.1	683.8	748.4	808.0	907.9	1019.4	1096.7	1142.5	1145.8	1154.6
65°	615.4	613.7	606.0	665.6	719.7	815.2	924.5	997.9	1039.3	1043.7	1042.0
67.5°	538.1	534.8	528.8	582.3	631.4	719.7	824.6	894.7	928.9	932.8	943.3
70°	460.9	457.0	443.2	500.0	543.1	622.0	719.7	782.1	810.8	814.7	813.0
72.5°	384.7	380.8	365.9	418.4	454.8	523.8	611.0	662.9	687.7	691.0	691.0
75°	310.7	308.5	299.1	338.9	369.2	425.5	499.5	542.5	561.9	565.7	564.6
77.5°	239.5	237.9	228.5	262.7	286.5	328.4	388.0	421.7	436.0	440.4	449.8
80°	171.7	171.1	156.2	189.9	200.4	235.7	279.3	305.2	312.9	319.0	325.6
82.5°	109.8	110.4	95.5	124.2	128.6	151.2	178.3	194.3	199.8	204.8	209.7
85°	53.5	55.7	47.5	65.7	66.2	77.8	89.4	95.5	97.7	101.6	106.0
87.5°	13.8	16.0	8.8	18.8	16.6	21.5	24.8	26.5	25.9	28.7	30.4
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°	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1
2.5°	2315.9	2333.6	2324.7	2353.4	2364.5	2346.8	2377.7	2378.3	2356.2	2382.1	2396.5
5°	2280.0	2298.2	2292.7	2322.5	2336.3	2320.9	2358.4	2365.6	2344.1	2373.3	2396.5
7.5°	2243.6	2265.1	2258.0	2288.3	2304.9	2292.7	2333.0	2344.6	2328.0	2360.1	2391.0
10°	2212.1	2230.4	2222.6	2254.6	2269.0	2259.1	2298.8	2320.3	2304.9	2344.1	2381.0
12.5°	2181.2	2196.1	2187.3	2213.8	2227.6	2214.9	2263.5	2283.3	2272.3	2313.1	2360.6
15°	2141.5	2158.1	2145.9	2169.6	2180.1	2169.1	2208.8	2243.0	2229.3	2274.0	2326.4
17.5°	2111.1	2120.5	2104.0	2122.7	2128.8	2113.9	2154.2	2187.9	2177.9	2226.5	2287.2
20°	2077.5	2085.2	2062.0	2072.5	2072.0	2053.2	2090.2	2123.3	2116.7	2170.2	2239.2
22.5°	2039.9	2043.8	2016.8	2019.0	2017.9	1987.0	2020.1	2053.7	2051.0	2105.1	2182.3
25°	2000.2	2000.8	1966.0	1964.9	1952.7	1916.3	1945.6	1983.6	1975.4	2033.9	2115.0
27.5°	1961.0	1955.5	1913.5	1903.6	1884.3	1840.7	1866.6	1900.9	1895.9	1953.3	2043.2
30°	1919.1	1911.9	1860.6	1842.3	1814.2	1764.0	1785.5	1817.5	1820.3	1870.5	1964.9
32.5°	1879.3	1861.1	1804.3	1777.8	1742.4	1683.9	1695.5	1728.1	1732.5	1783.3	1880.4
35°	1828.0	1815.9	1745.8	1700.5	1665.7	1601.7	1613.8	1636.5	1643.1	1692.8	1791.6
37.5°	1779.4	1760.1	1685.6	1630.4	1585.7	1518.4	1521.7	1544.9	1551.5	1601.7	1699.4
40°	1729.2	1701.6	1621.6	1557.0	1505.7	1435.0	1431.2	1455.4	1460.4	1509.5	1597.8
42.5°	1675.7	1642.5	1552.6	1481.9	1422.9	1351.1	1343.4	1364.4	1369.9	1417.9	1504.6
45°	1621.6	1581.8	1481.9	1404.7	1340.1	1266.7	1259.0	1275.0	1283.2	1328.5	1411.8
47.5°	1564.2	1517.8	1409.1	1323.0	1256.2	1182.8	1173.4	1189.4	1196.0	1240.7	1319.7
50°	1504.0	1447.7	1334.0	1239.1	1172.9	1100.6	1086.8	1105.5	1111.6	1153.5	1230.8
52.5°	1437.8	1375.4	1254.0	1154.6	1088.4	1019.4	1002.9	1021.1	1028.2	1069.1	1140.3
55°	1367.7	1300.4	1173.4	1076.8	1005.1	937.7	923.9	931.1	946.6	985.2	1051.4
57.5°	1288.8	1222.0	1088.4	990.2	921.2	856.6	845.0	851.6	866.0	903.5	963.1
60°	1204.9	1134.2	1001.8	903.5	836.7	775.5	765.0	771.0	786.5	820.7	875.9
62.5°	1122.1	1042.6	912.3	814.7	753.9	697.1	694.3	692.1	706.5	739.6	788.2
65°	1021.6	945.5	819.1	726.3	671.1	619.8	608.8	613.7	627.5	657.9	708.7
67.5°	914.0	845.0	723.6	638.0	588.9	543.1	533.7	535.9	550.3	576.8	620.9
70°	799.7	739.0	625.9	549.2	507.8	464.7	458.7	459.2	473.0	496.2	534.8
72.5°	680.0	625.3	527.1	461.4	427.2	396.3	390.8	384.1	396.8	416.7	449.8
75°	558.0	510.0	428.9	375.3	348.3	322.3	317.4	310.7	323.4	340.5	366.5
77.5°	434.9	396.3	333.4	292.0	271.0	251.7	247.3	240.1	252.8	265.5	285.9
80°	314.6	286.5	248.9	205.3	198.1	185.4	181.0	173.3	185.4	193.7	209.2
82.5°	203.1	184.3	162.8	132.5	131.4	122.0	119.8	110.9	122.0	126.9	138.5
85°	102.7	93.8	88.3	67.3	69.5	63.5	62.9	53.5	62.4	64.6	71.2
87.5°	29.3	30.9	27.6	16.6	21.0	19.9	19.9	14.4	19.9	19.9	22.6
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: P838012

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1	2366.1
2.5°	2368.3	2377.7	2379.9	2379.4	2385.4	2418.6	2407.5	2418.6
5°	2373.9	2394.8	2400.3	2408.1	2418.0	2455.5	2443.4	2456.6
7.5°	2377.2	2408.6	2420.8	2435.7	2451.7	2493.6	2483.7	2496.9
10°	2377.2	2418.0	2435.7	2460.5	2482.0	2530.6	2521.2	2536.7
12.5°	2367.2	2419.7	2444.5	2479.3	2506.9	2559.3	2555.4	2566.5
15°	2346.8	2411.4	2445.6	2490.3	2524.5	2583.0	2581.4	2594.6
17.5°	2319.2	2397.0	2438.4	2494.7	2537.8	2603.5	2607.3	2614.5
20°	2284.4	2370.0	2424.1	2493.1	2547.2	2619.5	2624.4	2634.4
22.5°	2238.6	2337.4	2402.6	2485.9	2548.3	2626.1	2634.9	2644.3
25°	2184.5	2298.2	2374.4	2472.1	2542.7	2625.5	2637.7	2646.0
27.5°	2122.7	2247.5	2338.5	2450.0	2527.3	2616.7	2631.6	2641.5
30°	2051.0	2193.4	2297.7	2421.3	2506.3	2600.1	2616.2	2626.1
32.5°	1977.0	2133.8	2249.1	2384.3	2476.0	2573.7	2587.5	2595.2
35°	1896.4	2061.5	2190.6	2336.9	2436.8	2531.2	2541.6	2549.9
37.5°	1808.7	1983.1	2123.8	2283.3	2381.6	2472.1	2481.5	2490.9
40°	1718.2	1900.9	2048.8	2217.7	2315.9	2399.8	2409.7	2416.4
42.5°	1627.1	1809.8	1968.7	2140.4	2238.1	2318.7	2324.7	2331.4
45°	1534.9	1715.4	1878.8	2054.8	2151.4	2227.0	2229.3	2234.8
47.5°	1441.1	1617.7	1780.0	1957.1	2052.6	2121.6	2123.8	2128.2
50°	1346.7	1520.0	1674.6	1851.7	1945.0	2017.9	2007.9	2012.3
52.5°	1254.0	1417.4	1575.2	1738.0	1830.2	1894.8	1897.5	1888.7
55°	1162.9	1316.9	1462.1	1618.8	1706.6	1756.8	1755.1	1758.5
57.5°	1070.7	1215.4	1348.4	1491.9	1577.4	1624.9	1634.8	1623.2
60°	976.9	1112.7	1231.9	1361.6	1444.4	1484.1	1495.7	1484.7
62.5°	883.6	1008.4	1116.6	1229.7	1306.4	1355.5	1354.4	1342.3
65°	790.4	903.5	1000.1	1096.1	1162.9	1212.0	1209.8	1198.8
67.5°	704.3	797.5	884.2	962.0	1020.0	1053.6	1065.2	1052.0
70°	609.3	689.9	766.1	828.4	876.5	906.8	917.9	906.3
72.5°	514.4	582.8	636.4	696.5	733.5	758.9	770.5	759.5
75°	420.6	476.9	520.5	567.4	593.3	614.9	628.1	617.1
77.5°	329.5	373.1	407.9	442.1	471.9	476.9	488.5	481.3
80°	242.8	274.3	299.7	322.3	343.9	346.1	355.4	351.0
82.5°	161.7	182.7	189.3	213.0	226.8	224.6	234.0	230.7
85°	85.5	98.2	109.8	117.0	124.7	117.6	125.8	122.5
87.5°	28.7	30.4	26.5	37.5	41.4	35.3	40.3	38.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)