

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: P837946

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6HI-20-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837946
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-LD4-6HI-20-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

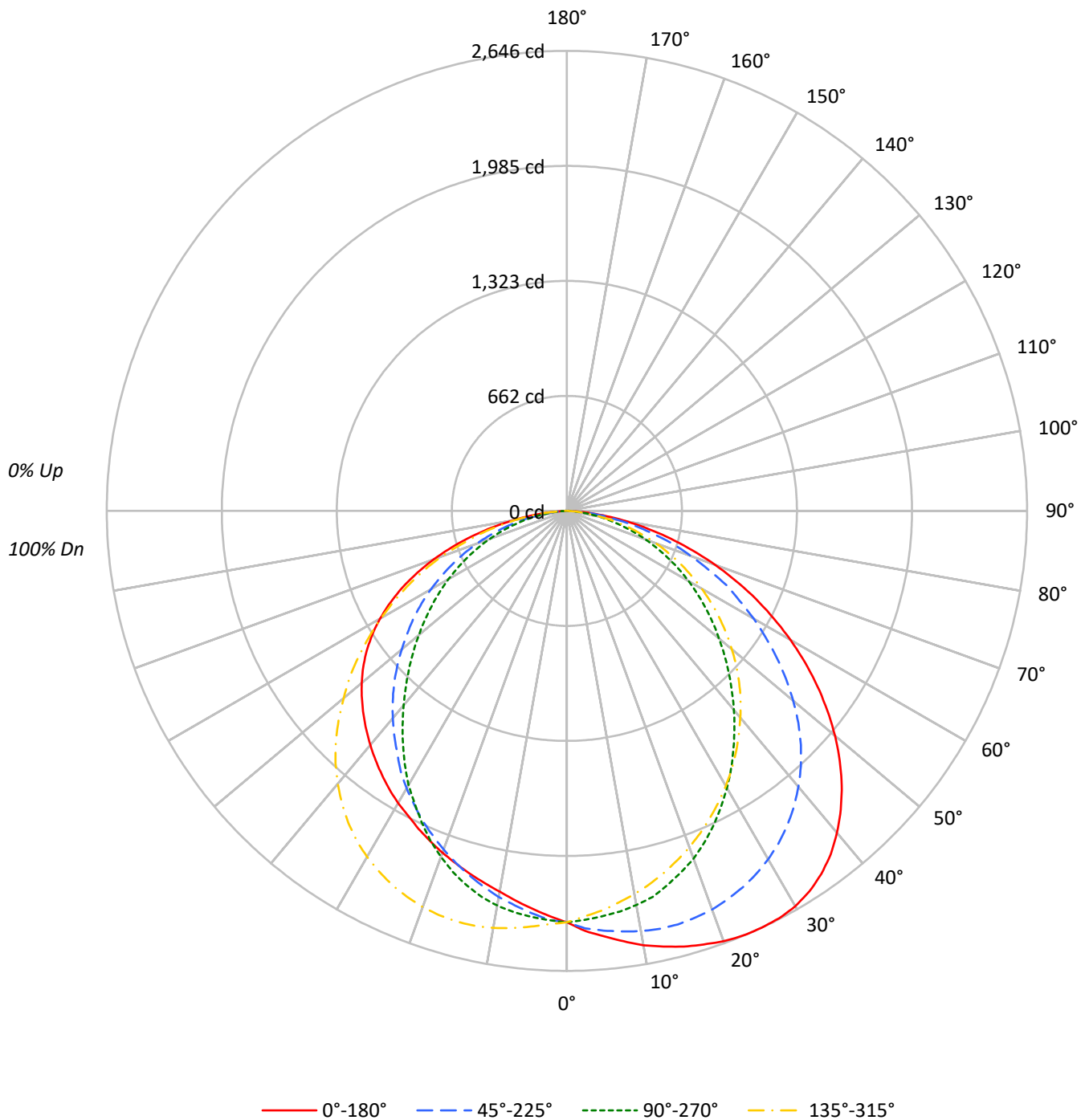
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6942.4 lumens
Efficiency: N/A
Efficacy: 52.6 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): 132
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6368	6368	6368	6368
5°	6636	6322	6203	6332
10°	6932	6289	6077	6298
15°	7229	6210	6017	6211
20°	7545	6096	5991	6062
25°	7857	5926	5990	5866
30°	8161	5720	6030	5656
35°	8377	5485	6091	5398
40°	8489	5249	6176	5130
45°	8505	5010	6296	4884
50°	8425	4781	6449	4654
55°	8251	4568	6593	4441
60°	7991	4346	6681	4233
65°	7634	4091	6646	3996
70°	7131	3792	6410	3722
75°	6416	3380	5883	3363
80°	5441	2831	4943	2875
85°	3782	1874	3137	1927

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	3.2
10°-20°	650.6	9.4
20°-30°	997.0	14.4
30°-40°	1212.3	17.5
40°-50°	1260.3	18.2
50°-60°	1138.4	16.4
60°-70°	865.5	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°	1872.3	27.0
0°-40°	3084.6	44.4
0°-60°	5483.3	79.0
0°-90°	6942.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6942.4	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	2018	1976	2646	1222
35°	2550	1670	1854	1643	2550	1593
45°	2235	1316	1654	1283	2235	1721
55°	1759	974	1405	947	1759	1570
65°	1199	642	1044	628	1199	1185
75°	617	325	566	324	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°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2418.7	2383.4	2384.0	2414.9	2391.1	2402.7	2369.6	2382.3	2378.4	2381.2	2354.2
5°	2456.8	2418.7	2418.2	2444.7	2418.2	2423.1	2381.2	2389.5	2377.3	2369.6	2340.4
7.5°	2497.1	2459.0	2455.2	2478.3	2443.6	2439.7	2393.3	2393.3	2371.3	2351.9	2324.3
10°	2536.9	2497.7	2492.7	2510.4	2467.3	2454.6	2398.3	2389.5	2360.2	2331.5	2301.7
12.5°	2566.7	2526.9	2523.1	2534.1	2485.5	2462.3	2398.3	2381.2	2338.1	2297.9	2274.7
15°	2594.8	2554.0	2543.5	2549.0	2493.2	2462.3	2390.6	2364.1	2308.9	2255.9	2228.9
17.5°	2614.7	2575.5	2565.0	2564.5	2497.1	2453.0	2374.0	2337.6	2271.4	2207.3	2180.3
20°	2634.6	2595.4	2582.1	2572.2	2496.0	2440.3	2349.7	2300.6	2223.3	2151.6	2128.9
22.5°	2644.5	2604.2	2589.8	2574.9	2488.8	2417.1	2319.9	2257.6	2169.2	2083.7	2064.9
25°	2646.1	2604.7	2589.3	2567.8	2474.5	2389.5	2281.3	2205.7	2106.9	2011.9	1995.9
27.5°	2641.7	2596.5	2581.0	2555.1	2453.0	2355.8	2235.5	2146.6	2040.6	1935.8	1918.6
30°	2626.3	2580.5	2565.6	2531.9	2422.6	2314.4	2185.3	2080.9	1967.2	1855.7	1840.8
32.5°	2595.4	2550.7	2538.5	2504.8	2389.5	2266.4	2126.7	2010.3	1886.1	1779.6	1757.5
35°	2550.1	2505.4	2497.7	2462.3	2343.1	2209.0	2062.7	1933.0	1800.0	1691.2	1669.7
37.5°	2491.0	2453.5	2441.9	2407.1	2288.5	2143.9	1989.3	1849.1	1712.2	1595.2	1581.9
40°	2416.5	2381.2	2372.4	2341.5	2225.0	2071.5	1909.8	1762.4	1621.7	1513.0	1494.2
42.5°	2331.5	2298.4	2293.4	2261.4	2146.6	1991.5	1823.7	1672.5	1527.3	1422.4	1403.7
45°	2234.9	2202.9	2201.8	2171.5	2061.1	1902.6	1733.2	1581.4	1435.1	1326.4	1316.4
47.5°	2128.4	2099.7	2099.7	2071.5	1965.6	1804.9	1639.9	1486.5	1342.4	1246.3	1228.7
50°	2012.5	1985.4	1977.2	1963.4	1860.1	1698.4	1541.7	1393.7	1250.8	1159.1	1142.0
52.5°	1888.8	1865.7	1871.2	1845.8	1745.9	1587.5	1442.3	1289.4	1158.6	1075.2	1058.1
55°	1758.6	1725.5	1730.4	1721.0	1626.7	1473.2	1330.8	1203.3	1068.1	989.7	973.7
57.5°	1623.3	1580.3	1598.0	1592.4	1499.7	1356.2	1228.7	1105.6	978.1	905.8	890.3
60°	1484.8	1443.4	1461.6	1456.6	1369.4	1239.2	1123.3	1009.0	888.7	823.0	807.5
62.5°	1342.4	1304.3	1320.9	1317.0	1237.0	1119.4	1018.4	913.5	798.7	739.6	725.3
65°	1198.9	1162.4	1177.4	1174.6	1100.6	1011.2	910.8	814.7	708.2	656.8	642.5
67.5°	1052.1	1018.4	1032.2	1032.2	964.3	878.7	802.6	714.8	619.3	575.2	561.9
70°	906.3	874.9	887.0	885.9	828.5	759.0	693.3	614.9	529.3	492.9	481.9
72.5°	759.5	731.9	743.0	741.8	693.8	649.1	584.0	516.1	441.6	412.3	402.4
75°	617.1	591.2	601.6	600.5	561.4	519.4	475.8	419.5	355.5	335.0	325.1
77.5°	481.3	454.8	463.7	463.7	435.0	404.6	369.8	326.2	281.0	258.9	251.7
80°	351.1	338.4	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	99.4	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°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2363.0	2363.0	2341.5	2336.5	2334.3	2337.0	2315.5	2311.7	2342.6	2332.1	2308.3
5°	2344.2	2343.1	2312.8	2307.2	2307.2	2303.9	2279.6	2274.1	2305.0	2296.2	2270.3
7.5°	2321.0	2317.7	2281.8	2278.0	2272.5	2270.3	2243.2	2239.3	2265.8	2260.3	2236.0
10°	2292.9	2289.6	2247.1	2244.3	2238.2	2233.8	2208.4	2205.7	2232.7	2223.9	2204.6
12.5°	2255.9	2249.8	2206.2	2203.5	2198.5	2196.8	2172.0	2170.9	2200.7	2191.9	2171.5
15°	2207.3	2202.4	2153.8	2154.9	2155.4	2155.4	2135.6	2134.5	2163.7	2159.9	2137.8
17.5°	2153.8	2147.2	2100.8	2104.1	2108.0	2112.4	2096.9	2099.7	2130.6	2125.6	2105.8
20°	2093.1	2086.4	2041.2	2050.6	2058.8	2067.7	2057.7	2065.5	2094.2	2092.0	2077.1
22.5°	2025.2	2018.6	1976.6	1991.0	2004.8	2021.3	2016.9	2025.7	2056.1	2055.5	2042.3
25°	1942.4	1944.0	1907.1	1924.7	1947.9	1971.1	1972.7	1987.1	2020.8	2017.5	2005.3
27.5°	1865.1	1867.3	1828.1	1857.9	1888.8	1918.6	1925.8	1945.7	1979.9	1977.2	1966.7
30°	1784.0	1786.7	1748.6	1789.5	1827.0	1863.5	1878.9	1906.0	1940.7	1940.7	1929.7
32.5°	1699.5	1704.5	1664.7	1719.4	1763.0	1805.5	1832.5	1860.7	1900.4	1899.3	1889.9
35°	1612.9	1618.4	1581.9	1651.5	1695.1	1747.0	1780.7	1818.2	1853.5	1854.1	1846.9
37.5°	1524.5	1531.2	1498.0	1574.2	1623.9	1685.2	1728.2	1765.8	1804.9	1807.2	1800.5
40°	1436.8	1444.0	1415.3	1488.7	1551.6	1620.0	1669.7	1713.9	1756.9	1758.0	1753.6
42.5°	1349.0	1356.7	1335.2	1407.0	1478.2	1551.6	1610.1	1660.3	1704.5	1707.2	1702.3
45°	1263.5	1270.1	1254.6	1333.0	1401.5	1481.5	1548.8	1605.7	1650.4	1654.3	1652.6
47.5°	1178.5	1184.5	1170.7	1242.5	1321.4	1406.4	1484.2	1547.2	1594.6	1599.1	1598.0
50°	1095.1	1100.1	1085.2	1160.2	1238.6	1329.1	1410.3	1483.1	1536.1	1540.5	1540.0
52.5°	1012.3	1017.3	1004.6	1083.5	1154.7	1250.2	1338.5	1417.5	1469.9	1476.5	1477.6
55°	932.3	934.5	924.6	1000.2	1069.2	1169.1	1270.6	1347.4	1399.8	1405.3	1408.6
57.5°	852.2	852.8	844.5	916.8	983.1	1085.2	1191.7	1272.3	1322.0	1327.5	1332.5
60°	772.8	772.2	762.8	832.9	896.4	997.4	1108.4	1188.4	1236.4	1241.4	1248.0
62.5°	693.8	692.2	683.9	748.5	808.1	908.0	1019.5	1096.8	1142.6	1145.9	1154.7
65°	615.4	613.8	606.1	665.7	719.8	815.3	924.6	998.0	1039.4	1043.8	1042.1
67.5°	538.2	534.9	528.8	582.3	631.5	719.8	824.6	894.7	929.0	932.8	943.3
70°	460.9	457.0	443.2	500.1	543.1	622.1	719.8	782.1	810.8	814.7	813.1
72.5°	384.7	380.9	366.0	418.4	454.8	523.8	611.0	662.9	687.8	691.1	691.1
75°	310.8	308.6	299.2	338.9	369.3	425.6	499.5	542.6	561.9	565.8	564.7
77.5°	239.6	237.9	228.5	262.7	286.5	328.4	388.0	421.7	436.1	440.5	449.9
80°	171.7	171.1	156.2	189.9	200.4	235.7	279.3	305.2	313.0	319.0	325.7
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°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2316.1	2333.7	2324.9	2353.6	2364.6	2347.0	2377.9	2378.4	2356.4	2382.3	2396.7
5°	2280.2	2298.4	2292.9	2322.7	2336.5	2321.0	2358.6	2365.7	2344.2	2373.5	2396.7
7.5°	2243.8	2265.3	2258.1	2288.5	2305.0	2292.9	2333.2	2344.8	2328.2	2360.2	2391.1
10°	2212.3	2230.5	2222.8	2254.8	2269.1	2259.2	2299.0	2320.5	2305.0	2344.2	2381.2
12.5°	2181.4	2196.3	2187.5	2214.0	2227.8	2215.1	2263.6	2283.5	2272.5	2313.3	2360.8
15°	2141.6	2158.2	2146.1	2169.8	2180.3	2169.2	2209.0	2243.2	2229.4	2274.1	2326.6
17.5°	2111.3	2120.7	2104.1	2122.9	2128.9	2114.0	2154.3	2188.0	2178.1	2226.6	2287.4
20°	2077.6	2085.3	2062.2	2072.6	2072.1	2053.3	2090.3	2123.4	2116.8	2170.3	2239.3
22.5°	2040.1	2043.9	2016.9	2019.1	2018.0	1987.1	2020.2	2053.9	2051.1	2105.2	2182.5
25°	2000.3	2000.9	1966.1	1965.0	1952.9	1916.4	1945.7	1983.8	1975.5	2034.0	2115.1
27.5°	1961.2	1955.6	1913.7	1903.7	1884.4	1840.8	1866.8	1901.0	1896.0	1953.4	2043.4
30°	1919.2	1912.0	1860.7	1842.5	1814.3	1764.1	1785.6	1817.6	1820.4	1870.6	1965.0
32.5°	1879.5	1861.2	1804.4	1777.9	1742.6	1684.1	1695.7	1728.2	1732.6	1783.4	1880.6
35°	1828.1	1816.0	1745.9	1700.6	1665.8	1601.8	1614.0	1636.6	1643.2	1692.9	1791.7
37.5°	1779.6	1760.2	1685.7	1630.5	1585.8	1518.5	1521.8	1545.0	1551.6	1601.8	1699.5
40°	1729.3	1701.7	1621.7	1557.1	1505.8	1435.1	1431.3	1455.5	1460.5	1509.6	1598.0
42.5°	1675.8	1642.7	1552.7	1482.0	1423.0	1351.2	1343.5	1364.5	1370.0	1418.0	1504.7
45°	1621.7	1581.9	1482.0	1404.8	1340.2	1266.8	1259.0	1275.1	1283.3	1328.6	1411.9
47.5°	1564.3	1517.9	1409.2	1323.1	1256.3	1182.9	1173.5	1189.5	1196.1	1240.8	1319.8
50°	1504.1	1447.8	1334.1	1239.2	1172.9	1100.6	1086.8	1105.6	1111.7	1153.6	1230.9
52.5°	1437.9	1375.5	1254.1	1154.7	1088.5	1019.5	1002.9	1021.1	1028.3	1069.2	1140.4
55°	1367.8	1300.4	1173.5	1076.9	1005.1	937.8	924.0	931.2	946.6	985.3	1051.5
57.5°	1288.9	1222.1	1088.5	990.2	921.2	856.7	845.1	851.7	866.0	903.6	963.2
60°	1205.0	1134.3	1001.8	903.6	836.8	775.5	765.0	771.1	786.6	820.8	876.0
62.5°	1122.2	1042.7	912.4	814.7	754.0	697.1	694.4	692.2	706.5	739.6	788.2
65°	1021.7	945.5	819.1	726.4	671.2	619.9	608.8	613.8	627.6	657.9	708.7
67.5°	914.1	845.1	723.6	638.1	589.0	543.1	533.8	536.0	550.3	576.8	621.0
70°	799.8	739.1	625.9	549.2	507.8	464.8	458.7	459.2	473.0	496.2	534.9
72.5°	680.0	625.4	527.1	461.4	427.2	396.3	390.8	384.2	396.9	416.7	449.9
75°	558.0	510.0	428.9	375.3	348.3	322.4	317.4	310.8	323.5	340.6	366.5
77.5°	435.0	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	198.2	185.5	181.0	173.3	185.5	193.7	209.2
82.5°	203.1	184.4	162.8	132.5	131.4	122.0	119.8	110.9	122.0	127.0	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: P837946

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6HI-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3
2.5°	2368.5	2377.9	2380.1	2379.5	2385.6	2418.7	2407.7	2418.7
5°	2374.0	2395.0	2400.5	2408.2	2418.2	2455.7	2443.6	2456.8
7.5°	2377.3	2408.8	2420.9	2435.8	2451.9	2493.8	2483.9	2497.1
10°	2377.3	2418.2	2435.8	2460.7	2482.2	2530.8	2521.4	2536.9
12.5°	2367.4	2419.8	2444.7	2479.5	2507.0	2559.5	2555.6	2566.7
15°	2347.0	2411.6	2445.8	2490.5	2524.7	2583.2	2581.6	2594.8
17.5°	2319.4	2397.2	2438.6	2494.9	2538.0	2603.6	2607.5	2614.7
20°	2284.6	2370.2	2424.3	2493.2	2547.3	2619.7	2624.6	2634.6
22.5°	2238.8	2337.6	2402.7	2486.1	2548.4	2626.3	2635.1	2644.5
25°	2184.7	2298.4	2374.6	2472.3	2542.9	2625.7	2637.9	2646.1
27.5°	2122.9	2247.6	2338.7	2450.2	2527.5	2616.9	2631.8	2641.7
30°	2051.1	2193.5	2297.9	2421.5	2506.5	2600.3	2616.3	2626.3
32.5°	1977.2	2133.9	2249.3	2384.5	2476.1	2573.8	2587.6	2595.4
35°	1896.6	2061.6	2190.8	2337.0	2436.9	2531.3	2541.8	2550.1
37.5°	1808.8	1983.2	2124.0	2283.5	2381.8	2472.3	2481.7	2491.0
40°	1718.3	1901.0	2048.9	2217.8	2316.1	2400.0	2409.9	2416.5
42.5°	1627.2	1809.9	1968.9	2140.5	2238.2	2318.8	2324.9	2331.5
45°	1535.0	1715.5	1878.9	2055.0	2151.6	2227.2	2229.4	2234.9
47.5°	1441.2	1617.8	1780.1	1957.3	2052.8	2121.8	2124.0	2128.4
50°	1346.8	1520.1	1674.7	1851.9	1945.1	2018.0	2008.1	2012.5
52.5°	1254.1	1417.5	1575.3	1738.2	1830.3	1894.9	1897.7	1888.8
55°	1163.0	1317.0	1462.2	1618.9	1706.7	1756.9	1755.3	1758.6
57.5°	1070.8	1215.4	1348.5	1492.0	1577.5	1625.0	1634.9	1623.3
60°	977.0	1112.8	1232.0	1361.7	1444.5	1484.2	1495.8	1484.8
62.5°	883.7	1008.4	1116.6	1229.8	1306.5	1355.6	1354.5	1342.4
65°	790.4	903.6	1000.2	1096.2	1163.0	1212.1	1209.9	1198.9
67.5°	704.3	797.6	884.3	962.1	1020.0	1053.7	1065.3	1052.1
70°	609.4	690.0	766.1	828.5	876.5	906.9	917.9	906.3
72.5°	514.4	582.9	636.4	696.6	733.6	759.0	770.6	759.5
75°	420.6	476.9	520.5	567.4	593.4	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°	242.9	274.3	299.7	322.4	343.9	346.1	355.5	351.1
82.5°	161.7	182.7	189.3	213.1	226.9	224.7	234.0	230.7
85°	85.6	98.3	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)