

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: P837996

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5STD-35-120-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: P837996
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-LD4-5STD-35-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

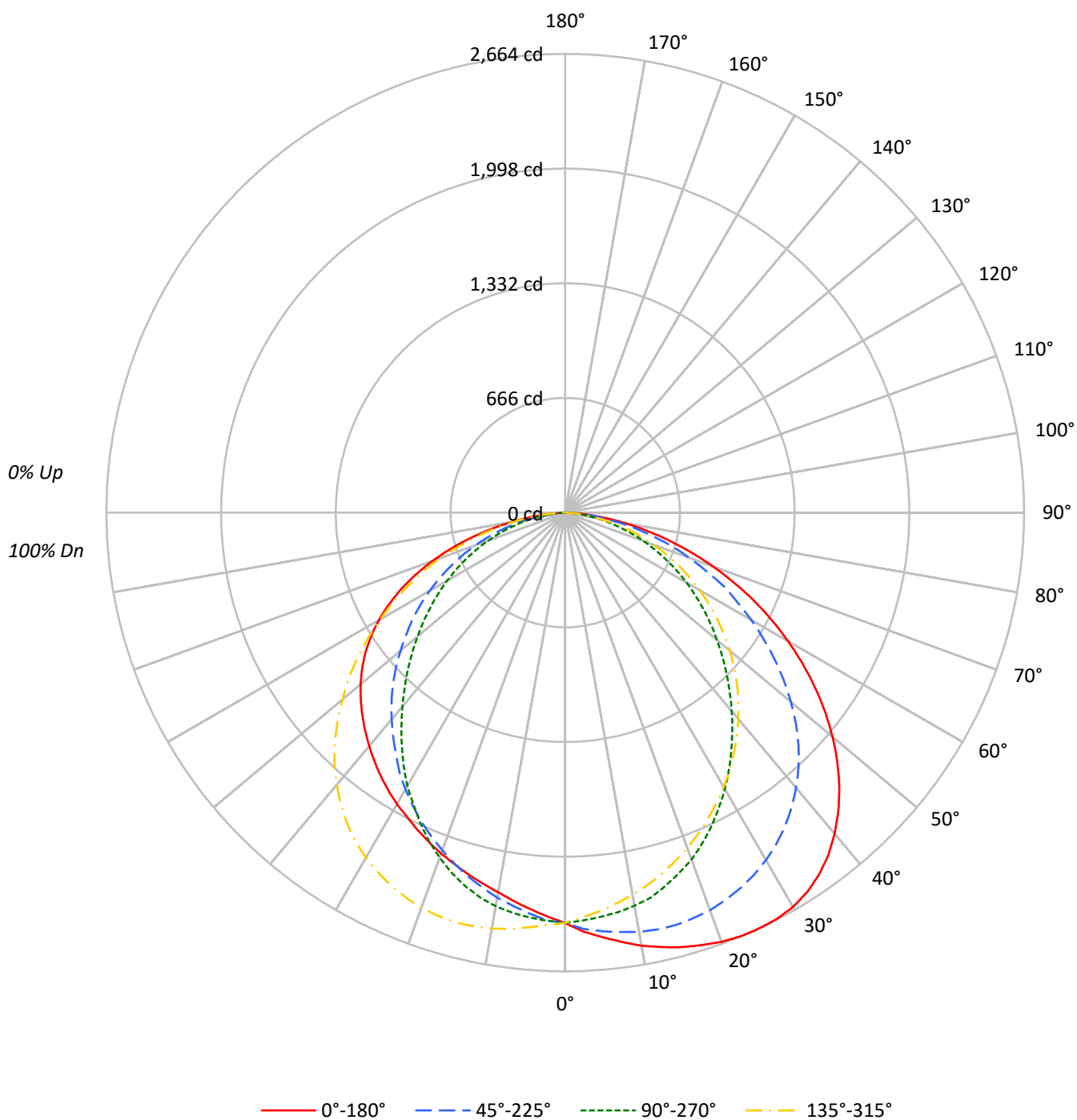
Lumens per Lamp: N/A
Luminaire Lumens: 6990.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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	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°	6412	6412	6412	6412
5°	6682	6366	6245	6376
10°	6980	6333	6119	6342
15°	7279	6252	6059	6254
20°	7596	6139	6032	6104
25°	7911	5967	6032	5906
30°	8217	5759	6072	5696
35°	8435	5523	6133	5435
40°	8547	5285	6218	5166
45°	8564	5044	6339	4918
50°	8483	4814	6494	4686
55°	8307	4600	6639	4472
60°	8046	4376	6727	4263
65°	7687	4119	6692	4024
70°	7180	3818	6454	3747
75°	6461	3404	5923	3386
80°	5478	2851	4978	2893
85°	3810	1886	3159	1939

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	3.2
10°-20°	655.1	9.4
20°-30°	1003.9	14.4
30°-40°	1220.7	17.5
40°-50°	1269.0	18.2
50°-60°	1146.3	16.4
60°-70°	871.5	12.5
70°-80°	485.8	7.0
80°-90°	111.9	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°	1885.2	27.0
0°-40°	3105.9	44.4
0°-60°	5521.1	79.0
0°-90°	6990.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6990.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2383	2383	2383	2383	2383	
5°	2474	2356	2312	2360	2474	239
15°	2613	2244	2175	2245	2613	741
25°	2664	2010	2031	1989	2664	1231
35°	2568	1681	1867	1655	2568	1604
45°	2250	1326	1666	1292	2250	1733
55°	1771	980	1415	953	1771	1581
65°	1207	647	1051	632	1207	1193
75°	621	327	570	326	621	660
85°	123	61	102	63	123	155
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°	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
2.5°	2435.4	2399.9	2400.4	2431.5	2407.6	2419.3	2386.0	2398.7	2394.8	2397.6	2370.4
5°	2473.8	2435.4	2434.9	2461.5	2434.9	2439.9	2397.6	2406.0	2393.7	2386.0	2356.5
7.5°	2514.3	2476.0	2472.1	2495.4	2460.4	2456.5	2409.9	2409.9	2387.6	2368.2	2340.4
10°	2554.4	2514.9	2509.9	2527.7	2484.3	2471.5	2414.9	2406.0	2376.5	2347.6	2317.6
12.5°	2584.4	2544.4	2540.5	2551.6	2502.7	2479.3	2414.9	2397.6	2354.3	2313.7	2290.4
15°	2612.7	2571.6	2561.0	2566.6	2510.5	2479.3	2407.1	2380.4	2324.8	2271.5	2244.2
17.5°	2632.7	2593.3	2582.7	2582.1	2514.3	2469.9	2390.4	2353.7	2287.0	2222.6	2195.3
20°	2652.7	2613.3	2599.9	2589.9	2513.2	2457.1	2365.9	2316.5	2238.7	2166.4	2143.6
22.5°	2662.7	2622.2	2607.7	2592.7	2506.0	2433.8	2335.9	2273.1	2184.2	2098.1	2079.2
25°	2664.4	2622.7	2607.2	2585.5	2491.6	2406.0	2297.0	2220.9	2121.4	2025.8	2009.7
27.5°	2660.0	2614.4	2598.8	2572.7	2469.9	2372.1	2250.9	2161.4	2054.7	1949.1	1931.9
30°	2644.4	2598.3	2583.3	2549.4	2439.3	2330.4	2200.3	2095.3	1980.8	1868.5	1853.5
32.5°	2613.3	2568.3	2556.0	2522.1	2406.0	2282.0	2141.4	2024.1	1899.1	1791.8	1769.6
35°	2567.7	2522.7	2514.9	2479.3	2359.3	2224.2	2076.9	1946.3	1812.4	1702.9	1681.2
37.5°	2508.2	2470.4	2458.8	2423.7	2304.3	2158.6	2003.0	1861.9	1724.0	1606.2	1592.9
40°	2433.2	2397.6	2388.7	2357.6	2240.3	2085.8	1923.0	1774.6	1632.9	1523.4	1504.5
42.5°	2347.6	2314.3	2309.3	2277.0	2161.4	2005.2	1836.3	1684.0	1537.8	1432.2	1413.3
45°	2250.3	2218.1	2217.0	2186.4	2075.3	1915.8	1745.1	1592.3	1445.0	1335.5	1325.5
47.5°	2143.1	2114.2	2114.2	2085.8	1979.1	1817.4	1651.2	1496.7	1351.7	1254.9	1237.2
50°	2026.4	1999.1	1990.8	1976.9	1873.0	1710.1	1552.3	1403.3	1259.4	1167.1	1149.9
52.5°	1901.9	1878.5	1884.1	1858.5	1757.9	1598.4	1452.2	1298.3	1166.6	1082.7	1065.4
55°	1770.7	1737.4	1742.4	1732.9	1637.9	1483.4	1340.0	1211.6	1075.4	996.5	980.4
57.5°	1634.5	1591.2	1609.0	1603.4	1510.0	1365.5	1237.2	1113.2	984.8	912.0	896.5
60°	1495.0	1453.4	1471.7	1466.7	1378.9	1247.7	1131.0	1016.0	894.8	828.7	813.1
62.5°	1351.7	1313.3	1330.0	1326.1	1245.5	1127.1	1025.4	919.8	804.2	744.7	730.3
65°	1207.2	1170.5	1185.5	1182.7	1108.2	1018.2	917.0	820.3	713.1	661.4	646.9
67.5°	1059.3	1025.4	1039.3	1039.3	970.9	884.8	808.1	719.7	623.6	579.1	565.8
70°	912.6	880.9	893.1	892.0	834.2	764.2	698.1	619.1	533.0	496.3	485.2
72.5°	764.8	737.0	748.1	747.0	698.6	653.6	588.0	519.7	444.6	415.2	405.2
75°	621.4	595.2	605.8	604.7	565.2	523.0	479.1	422.4	357.9	337.4	327.4
77.5°	484.6	458.0	466.9	466.9	438.0	407.4	372.4	328.5	282.9	260.7	253.4
80°	353.5	340.7	336.2	336.8	317.3	297.3	279.6	237.3	204.0	189.0	184.0
82.5°	232.3	221.8	217.3	218.4	207.3	195.1	184.0	154.5	132.3	123.4	120.6
85°	123.4	115.6	111.7	114.5	112.3	105.6	100.0	80.0	66.1	62.8	61.1
87.5°	38.9	33.9	31.1	41.1	35.0	31.1	30.0	23.9	18.3	18.3	17.8
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°	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
2.5°	2379.3	2379.3	2357.6	2352.6	2350.4	2353.2	2331.5	2327.6	2358.7	2348.2	2324.3
5°	2360.4	2359.3	2328.7	2323.2	2323.2	2319.8	2295.4	2289.8	2320.9	2312.0	2285.9
7.5°	2337.0	2333.7	2297.6	2293.7	2288.1	2285.9	2258.7	2254.8	2281.5	2275.9	2251.5
10°	2308.7	2305.4	2262.6	2259.8	2253.7	2249.2	2223.7	2220.9	2248.1	2239.2	2219.8
12.5°	2271.5	2265.4	2221.4	2218.7	2213.7	2212.0	2187.0	2185.9	2215.9	2207.0	2186.4
15°	2222.6	2217.6	2168.6	2169.8	2170.3	2170.3	2150.3	2149.2	2178.7	2174.8	2152.5
17.5°	2168.6	2162.0	2115.3	2118.6	2122.5	2127.0	2111.4	2114.2	2145.3	2140.3	2120.3
20°	2107.5	2100.8	2055.3	2064.7	2073.1	2081.9	2071.9	2079.7	2108.6	2106.4	2091.4
22.5°	2039.2	2032.5	1990.2	2004.7	2018.6	2035.3	2030.8	2039.7	2070.3	2069.7	2056.4
25°	1955.8	1957.5	1920.2	1938.0	1961.3	1984.7	1986.4	2000.8	2034.7	2031.4	2019.1
27.5°	1878.0	1880.2	1840.7	1870.7	1901.9	1931.9	1939.1	1959.1	1993.6	1990.8	1980.2
30°	1796.3	1799.1	1760.7	1801.8	1839.6	1876.3	1891.9	1919.1	1954.1	1954.1	1943.0
32.5°	1711.2	1716.2	1676.2	1731.2	1775.2	1818.0	1845.2	1873.5	1913.5	1912.4	1903.0
35°	1624.0	1629.5	1592.9	1662.9	1706.8	1759.0	1792.9	1830.7	1866.3	1866.9	1859.6
37.5°	1535.1	1541.7	1508.4	1585.1	1635.1	1696.8	1740.1	1777.9	1817.4	1819.6	1812.9
40°	1446.7	1453.9	1425.0	1498.9	1562.3	1631.2	1681.2	1725.7	1769.0	1770.2	1765.7
42.5°	1358.3	1366.1	1344.4	1416.7	1488.4	1562.3	1621.2	1671.8	1716.2	1719.0	1714.0
45°	1272.2	1278.8	1263.3	1342.2	1411.1	1491.7	1559.5	1616.8	1661.8	1665.7	1664.0
47.5°	1186.6	1192.7	1178.8	1251.1	1330.5	1416.1	1494.5	1557.8	1605.6	1610.1	1609.0
50°	1102.7	1107.7	1092.7	1168.2	1247.2	1338.3	1420.0	1493.4	1546.7	1551.2	1550.6
52.5°	1019.3	1024.3	1011.5	1091.0	1162.7	1258.8	1347.8	1427.2	1480.0	1486.7	1487.8
55°	938.7	940.9	930.9	1007.1	1076.5	1177.1	1279.4	1356.7	1409.5	1415.0	1418.3
57.5°	858.1	858.7	850.3	923.1	989.8	1092.7	1199.9	1281.1	1331.1	1336.6	1341.6
60°	778.1	777.5	768.1	838.7	902.6	1004.3	1116.0	1196.6	1244.9	1249.9	1256.6
62.5°	698.6	696.9	688.6	753.6	813.7	914.3	1026.5	1104.3	1150.5	1153.8	1162.7
65°	619.7	618.0	610.2	670.3	724.7	820.9	930.9	1004.8	1046.5	1051.0	1049.3
67.5°	541.9	538.5	532.4	586.3	635.8	724.7	830.3	900.9	935.4	939.3	949.8
70°	464.1	460.2	446.3	503.5	546.9	626.4	724.7	787.5	816.4	820.3	818.7
72.5°	387.4	383.5	368.5	421.3	458.0	527.4	615.2	667.5	692.5	695.8	695.8
75°	312.9	310.7	301.2	341.2	371.8	428.5	503.0	546.3	565.8	569.7	568.6
77.5°	241.2	239.5	230.1	264.6	288.4	330.7	390.7	424.6	439.1	443.5	453.0
80°	172.8	172.3	157.3	191.2	201.7	237.3	281.2	307.3	315.1	321.2	327.9
82.5°	110.6	111.2	96.1	125.1	129.5	152.3	179.5	195.6	201.2	206.2	211.2
85°	53.9	56.1	47.8	66.1	66.7	78.4	90.0	96.1	98.4	102.3	106.7
87.5°	13.9	16.1	8.9	18.9	16.7	21.7	25.0	26.7	26.1	28.9	30.6
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°	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
2.5°	2332.0	2349.8	2340.9	2369.8	2381.0	2363.2	2394.3	2394.8	2372.6	2398.7	2413.2
5°	2295.9	2314.3	2308.7	2338.7	2352.6	2337.0	2374.8	2382.1	2360.4	2389.8	2413.2
7.5°	2259.2	2280.9	2273.7	2304.3	2320.9	2308.7	2349.3	2360.9	2344.3	2376.5	2407.6
10°	2227.6	2245.9	2238.1	2270.4	2284.8	2274.8	2314.8	2336.5	2320.9	2360.4	2397.6
12.5°	2196.4	2211.4	2202.5	2229.2	2243.1	2230.3	2279.2	2299.3	2288.1	2329.3	2377.1
15°	2156.4	2173.1	2160.9	2184.8	2195.3	2184.2	2224.2	2258.7	2244.8	2289.8	2342.6
17.5°	2125.9	2135.3	2118.6	2137.5	2143.6	2128.6	2169.2	2203.1	2193.1	2242.0	2303.1
20°	2091.9	2099.7	2076.4	2086.9	2086.4	2067.5	2104.7	2138.1	2131.4	2185.3	2254.8
22.5°	2054.2	2058.0	2030.8	2033.0	2031.9	2000.8	2034.1	2068.1	2065.3	2119.7	2197.5
25°	2014.1	2014.7	1979.7	1978.6	1966.3	1929.7	1959.1	1997.5	1989.1	2048.0	2129.7
27.5°	1974.7	1969.1	1926.9	1916.9	1897.4	1853.5	1879.6	1914.1	1909.1	1966.9	2057.5
30°	1932.4	1925.2	1873.5	1855.2	1826.8	1776.3	1797.9	1830.2	1833.0	1883.5	1978.6
32.5°	1892.4	1874.1	1816.8	1790.2	1754.6	1695.7	1707.4	1740.1	1744.6	1795.7	1893.5
35°	1840.7	1828.5	1757.9	1712.4	1677.3	1612.9	1625.1	1647.9	1654.6	1704.6	1804.1
37.5°	1791.8	1772.4	1697.3	1641.8	1596.8	1528.9	1532.3	1555.6	1562.3	1612.9	1711.2
40°	1741.3	1713.5	1632.9	1567.9	1516.2	1445.0	1441.1	1465.6	1470.6	1520.1	1609.0
42.5°	1687.3	1654.0	1563.4	1492.3	1432.8	1360.5	1352.8	1373.9	1379.4	1427.8	1515.1
45°	1632.9	1592.9	1492.3	1414.5	1349.4	1275.5	1267.7	1283.8	1292.2	1337.8	1421.7
47.5°	1575.1	1528.4	1418.9	1332.2	1265.0	1191.0	1181.6	1197.7	1204.4	1249.4	1328.9
50°	1514.5	1457.8	1343.3	1247.7	1181.0	1108.2	1094.3	1113.2	1119.3	1161.6	1239.4
52.5°	1447.8	1385.0	1262.7	1162.7	1096.0	1026.5	1009.8	1028.2	1035.4	1076.5	1148.2
55°	1377.2	1309.4	1181.6	1084.3	1012.1	944.3	930.4	937.6	953.2	992.1	1058.8
57.5°	1297.7	1230.5	1096.0	997.1	927.6	862.6	850.9	857.6	872.0	909.8	969.8
60°	1213.3	1142.1	1008.7	909.8	842.6	780.9	770.3	776.4	792.0	826.4	882.0
62.5°	1129.9	1049.9	918.7	820.3	759.2	701.9	699.2	696.9	711.4	744.7	793.7
65°	1028.7	952.0	824.8	731.4	675.8	624.1	613.0	618.0	631.9	662.5	713.6
67.5°	920.4	850.9	728.6	642.5	593.0	546.9	537.4	539.7	554.1	580.8	625.3
70°	805.3	744.2	630.3	553.0	511.3	468.0	461.9	462.4	476.3	499.6	538.5
72.5°	684.7	629.7	530.8	464.6	430.2	399.0	393.5	386.8	399.6	419.6	453.0
75°	561.9	513.5	431.8	377.9	350.7	324.6	319.6	312.9	325.7	342.9	369.0
77.5°	438.0	399.0	335.7	294.0	272.9	253.4	249.0	241.8	254.5	267.3	287.9
80°	316.8	288.4	250.7	206.7	199.5	186.7	182.3	174.5	186.7	195.1	210.6
82.5°	204.5	185.6	164.0	133.4	132.3	122.8	120.6	111.7	122.8	127.8	139.5
85°	103.4	94.5	88.9	67.8	70.0	63.9	63.4	53.9	62.8	65.0	71.7
87.5°	29.5	31.1	27.8	16.7	21.1	20.0	20.0	14.5	20.0	20.0	22.8
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: P837996

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5STD-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6	2382.6
2.5°	2384.8	2394.3	2396.5	2396.0	2402.1	2435.4	2424.3	2435.4
5°	2390.4	2411.5	2417.1	2424.9	2434.9	2472.7	2460.4	2473.8
7.5°	2393.7	2425.4	2437.6	2452.6	2468.8	2511.0	2501.0	2514.3
10°	2393.7	2434.9	2452.6	2477.7	2499.3	2548.2	2538.8	2554.4
12.5°	2383.7	2436.5	2461.5	2496.6	2524.3	2577.1	2573.3	2584.4
15°	2363.2	2428.2	2462.7	2507.7	2542.1	2601.0	2599.4	2612.7
17.5°	2335.4	2413.7	2455.4	2512.1	2555.5	2621.6	2625.5	2632.7
20°	2300.4	2386.5	2441.0	2510.5	2564.9	2637.7	2642.7	2652.7
22.5°	2254.2	2353.7	2419.3	2503.2	2566.0	2644.4	2653.3	2662.7
25°	2199.8	2314.3	2391.0	2489.3	2560.5	2643.8	2656.1	2664.4
27.5°	2137.5	2263.1	2354.8	2467.1	2544.9	2634.9	2650.0	2660.0
30°	2065.3	2208.7	2313.7	2438.2	2523.8	2618.3	2634.4	2644.4
32.5°	1990.8	2148.6	2264.8	2401.0	2493.2	2591.6	2605.5	2613.3
35°	1909.7	2075.8	2205.9	2353.2	2453.8	2548.8	2559.4	2567.7
37.5°	1821.3	1996.9	2138.6	2299.3	2398.2	2489.3	2498.8	2508.2
40°	1730.1	1914.1	2063.0	2233.1	2332.0	2416.5	2426.5	2433.2
42.5°	1638.4	1822.4	1982.5	2155.3	2253.7	2334.8	2340.9	2347.6
45°	1545.6	1727.4	1891.9	2069.2	2166.4	2242.6	2244.8	2250.3
47.5°	1451.1	1629.0	1792.4	1970.8	2066.9	2136.4	2138.6	2143.1
50°	1356.1	1530.6	1686.2	1864.6	1958.6	2031.9	2021.9	2026.4
52.5°	1262.7	1427.2	1586.2	1750.1	1843.0	1908.0	1910.8	1901.9
55°	1171.0	1326.1	1472.3	1630.1	1718.5	1769.0	1767.4	1770.7
57.5°	1078.2	1223.8	1357.8	1502.3	1588.4	1636.2	1646.2	1634.5
60°	983.7	1120.4	1240.5	1371.1	1454.5	1494.5	1506.2	1495.0
62.5°	889.8	1015.4	1124.3	1238.3	1315.5	1365.0	1363.9	1351.7
65°	795.9	909.8	1007.1	1103.8	1171.0	1220.5	1218.3	1207.2
67.5°	709.2	803.1	890.4	968.7	1027.1	1061.0	1072.7	1059.3
70°	613.6	694.7	771.4	834.2	882.6	913.1	924.3	912.6
72.5°	518.0	586.9	640.8	701.4	738.6	764.2	775.9	764.8
75°	423.5	480.2	524.1	571.3	597.5	619.1	632.5	621.4
77.5°	331.8	375.7	410.7	445.2	475.2	480.2	491.9	484.6
80°	244.5	276.2	301.8	324.6	346.2	348.5	357.9	353.5
82.5°	162.8	184.0	190.6	214.5	228.4	226.2	235.7	232.3
85°	86.1	98.9	110.6	117.8	125.6	118.4	126.7	123.4
87.5°	28.9	30.6	26.7	37.8	41.7	35.6	40.6	38.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)