

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: P837744

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2STD-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: P837744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-2STD-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

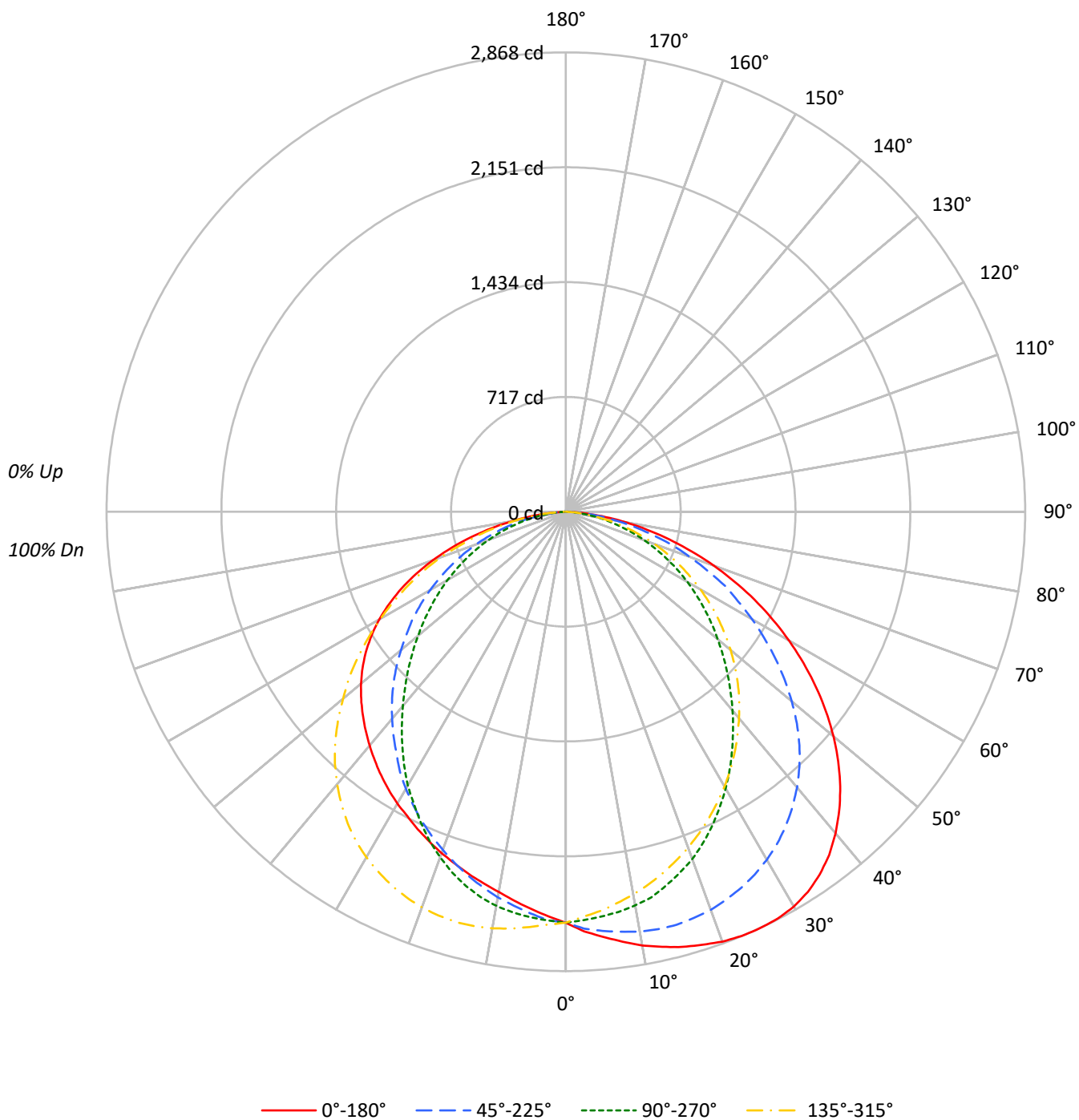
Lumens per Lamp: N/A
Luminaire Lumens: 7525.6 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6903	6903	6903	6903
5°	7194	6853	6724	6864
10°	7514	6818	6587	6828
15°	7836	6731	6523	6733
20°	8178	6609	6494	6571
25°	8517	6424	6493	6358
30°	8846	6201	6537	6132
35°	9081	5946	6602	5852
40°	9202	5690	6694	5562
45°	9220	5431	6824	5294
50°	9133	5183	6991	5045
55°	8944	4952	7147	4814
60°	8662	4711	7243	4589
65°	8275	4435	7205	4332
70°	7730	4110	6949	4035
75°	6955	3664	6377	3645
80°	5897	3070	5359	3115
85°	4100	2032	3399	2087

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	3.2
10°-20°	705.2	9.4
20°-30°	1080.8	14.4
30°-40°	1314.2	17.5
40°-50°	1366.2	18.2
50°-60°	1234.1	16.4
60°-70°	938.2	12.5
70°-80°	523.0	7.0
80°-90°	120.4	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°	2029.6	27.0
0°-40°	3343.7	44.4
0°-60°	5944.0	79.0
0°-90°	7525.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7525.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2565	2565	2565	2565	2565	
5°	2663	2537	2489	2541	2663	257
15°	2813	2416	2341	2417	2813	798
25°	2868	2164	2187	2142	2868	1325
35°	2764	1810	2010	1781	2764	1727
45°	2423	1427	1793	1391	2423	1865
55°	1906	1056	1523	1026	1906	1702
65°	1300	696	1132	680	1300	1284
75°	669	352	613	351	669	711
85°	133	66	110	68	133	167
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°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2621.9	2583.6	2584.2	2617.8	2592.0	2604.6	2568.7	2582.5	2578.3	2581.3	2551.9
5°	2663.2	2621.9	2621.3	2650.1	2621.3	2626.7	2581.3	2590.2	2577.1	2568.7	2537.0
7.5°	2706.9	2665.6	2661.4	2686.6	2648.9	2644.7	2594.4	2594.4	2570.5	2549.5	2519.6
10°	2750.0	2707.5	2702.1	2721.3	2674.6	2660.8	2599.8	2590.2	2558.5	2527.4	2495.1
12.5°	2782.3	2739.2	2735.0	2747.0	2694.3	2669.2	2599.8	2581.3	2534.6	2490.9	2465.8
15°	2812.8	2768.5	2757.2	2763.2	2702.7	2669.2	2591.4	2562.7	2502.9	2445.4	2416.1
17.5°	2834.4	2791.9	2780.5	2779.9	2706.9	2659.0	2573.5	2534.0	2462.2	2392.8	2363.5
20°	2855.9	2813.4	2799.1	2788.3	2705.7	2645.3	2547.1	2493.9	2410.1	2332.3	2307.8
22.5°	2866.7	2823.0	2807.4	2791.3	2697.9	2620.1	2514.8	2447.2	2351.5	2258.7	2238.4
25°	2868.5	2823.6	2806.8	2783.5	2682.4	2590.2	2473.0	2391.0	2283.9	2181.0	2163.6
27.5°	2863.7	2814.6	2797.9	2769.7	2659.0	2553.7	2423.3	2327.0	2212.1	2098.4	2079.8
30°	2846.9	2797.3	2781.1	2744.6	2626.1	2508.9	2368.8	2255.8	2132.5	2011.6	1995.5
32.5°	2813.4	2764.9	2751.8	2715.3	2590.2	2456.8	2305.4	2179.2	2044.5	1929.1	1905.1
35°	2764.3	2715.9	2707.5	2669.2	2540.0	2394.6	2236.0	2095.4	1951.2	1833.3	1810.0
37.5°	2700.3	2659.6	2647.1	2609.4	2480.7	2324.0	2156.4	2004.5	1856.1	1729.2	1714.9
40°	2619.5	2581.3	2571.7	2538.2	2411.9	2245.6	2070.3	1910.5	1757.9	1640.1	1619.7
42.5°	2527.4	2491.5	2486.1	2451.4	2327.0	2158.8	1976.9	1813.0	1655.6	1541.9	1521.6
45°	2422.7	2388.0	2386.8	2353.9	2234.2	2062.5	1878.8	1714.3	1555.7	1437.8	1427.0
47.5°	2307.2	2276.1	2276.1	2245.6	2130.7	1956.6	1777.7	1611.3	1455.2	1351.1	1331.9
50°	2181.6	2152.2	2143.3	2128.3	2016.4	1841.1	1671.2	1510.8	1355.8	1256.5	1238.0
52.5°	2047.5	2022.4	2028.4	2000.9	1892.6	1720.8	1563.5	1397.7	1255.9	1165.6	1147.0
55°	1906.3	1870.4	1875.8	1865.6	1763.3	1597.0	1442.6	1304.4	1157.8	1072.8	1055.5
57.5°	1759.7	1713.1	1732.2	1726.2	1625.7	1470.1	1331.9	1198.5	1060.3	981.9	965.1
60°	1609.5	1564.7	1584.4	1579.0	1484.5	1343.3	1217.6	1093.8	963.3	892.1	875.4
62.5°	1455.2	1413.9	1431.8	1427.6	1340.9	1213.4	1103.9	990.3	865.8	801.8	786.2
65°	1299.6	1260.1	1276.3	1273.3	1193.1	1096.2	987.3	883.2	767.7	712.0	696.5
67.5°	1140.4	1103.9	1118.9	1118.9	1045.3	952.6	870.0	774.9	671.3	623.5	609.1
70°	982.5	948.4	961.5	960.3	898.1	822.7	751.5	666.6	573.8	534.3	522.4
72.5°	823.3	793.4	805.4	804.2	752.1	703.7	633.0	559.5	478.7	447.0	436.2
75°	668.9	640.8	652.2	651.0	608.5	563.0	515.8	454.7	385.3	363.2	352.4
77.5°	521.8	493.0	502.6	502.6	471.5	438.6	400.9	353.6	304.6	280.6	272.8
80°	380.5	366.8	362.0	362.6	341.7	320.1	301.0	255.5	219.6	203.4	198.1
82.5°	250.1	238.7	234.0	235.1	223.2	210.0	198.1	166.3	142.4	132.8	129.8
85°	132.8	124.5	120.3	123.3	120.9	113.7	107.7	86.2	71.2	67.6	65.8
87.5°	41.9	36.5	33.5	44.3	37.7	33.5	32.3	25.7	19.7	19.7	19.1
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°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2561.5	2561.5	2538.2	2532.8	2530.4	2533.4	2510.1	2505.9	2539.4	2528.0	2502.3
5°	2541.2	2540.0	2507.1	2501.1	2501.1	2497.5	2471.2	2465.2	2498.7	2489.1	2461.0
7.5°	2516.0	2512.4	2473.6	2469.4	2463.4	2461.0	2431.7	2427.5	2456.2	2450.2	2423.9
10°	2485.5	2481.9	2435.9	2432.9	2426.3	2421.5	2394.0	2391.0	2420.3	2410.7	2389.8
12.5°	2445.4	2438.8	2391.6	2388.6	2383.2	2381.4	2354.5	2353.3	2385.6	2376.0	2353.9
15°	2392.8	2387.4	2334.7	2335.9	2336.5	2336.5	2315.0	2313.8	2345.5	2341.3	2317.4
17.5°	2334.7	2327.6	2277.3	2280.9	2285.1	2289.9	2273.1	2276.1	2309.6	2304.2	2282.7
20°	2268.9	2261.7	2212.7	2222.8	2231.8	2241.4	2230.6	2239.0	2270.1	2267.7	2251.6
22.5°	2195.3	2188.1	2142.7	2158.2	2173.2	2191.1	2186.3	2195.9	2228.8	2228.2	2213.9
25°	2105.6	2107.4	2067.3	2086.4	2111.6	2136.7	2138.5	2154.0	2190.5	2186.9	2173.8
27.5°	2021.8	2024.2	1981.7	2014.0	2047.5	2079.8	2087.6	2109.2	2146.3	2143.3	2131.9
30°	1933.8	1936.8	1895.6	1939.8	1980.5	2020.0	2036.8	2066.1	2103.8	2103.8	2091.8
32.5°	1842.3	1847.7	1804.6	1863.8	1911.1	1957.2	1986.5	2017.0	2060.1	2058.9	2048.7
35°	1748.4	1754.3	1714.9	1790.2	1837.5	1893.8	1930.3	1970.9	2009.2	2009.8	2002.1
37.5°	1652.6	1659.8	1623.9	1706.5	1760.3	1826.7	1873.4	1914.1	1956.6	1959.0	1951.8
40°	1557.5	1565.3	1534.2	1613.7	1681.9	1756.1	1810.0	1857.9	1904.5	1905.7	1900.9
42.5°	1462.4	1470.7	1447.4	1525.2	1602.4	1681.9	1745.4	1799.8	1847.7	1850.7	1845.3
45°	1369.6	1376.8	1360.0	1445.0	1519.2	1606.0	1679.0	1740.6	1789.0	1793.2	1791.4
47.5°	1277.5	1284.0	1269.1	1346.9	1432.4	1524.6	1608.9	1677.2	1728.6	1733.4	1732.2
50°	1187.1	1192.5	1176.3	1257.7	1342.7	1440.8	1528.8	1607.7	1665.2	1670.0	1669.4
52.5°	1097.4	1102.7	1089.0	1174.5	1251.7	1355.2	1451.0	1536.5	1593.4	1600.6	1601.8
55°	1010.6	1013.0	1002.2	1084.2	1159.0	1267.3	1377.4	1460.6	1517.4	1523.4	1527.0
57.5°	923.8	924.4	915.5	993.8	1065.6	1176.3	1291.8	1379.2	1433.0	1439.0	1444.4
60°	837.7	837.1	826.9	902.9	971.7	1081.2	1201.5	1288.2	1340.3	1345.7	1352.9
62.5°	752.1	750.3	741.3	811.4	876.0	984.3	1105.1	1188.9	1238.6	1242.2	1251.7
65°	667.2	665.4	657.0	721.6	780.2	883.8	1002.2	1081.8	1126.7	1131.5	1129.7
67.5°	583.4	579.8	573.2	631.3	684.5	780.2	893.9	969.9	1007.0	1011.2	1022.6
70°	499.6	495.4	480.5	542.1	588.8	674.3	780.2	847.9	879.0	883.2	881.4
72.5°	417.0	412.9	396.7	453.5	493.0	567.8	662.4	718.6	745.5	749.1	749.1
75°	336.9	334.5	324.3	367.4	400.3	461.3	541.5	588.2	609.1	613.3	612.1
77.5°	259.7	257.9	247.7	284.8	310.5	356.0	420.6	457.1	472.7	477.5	487.7
80°	186.1	185.5	169.3	205.8	217.2	255.5	302.8	330.9	339.3	345.8	353.0
82.5°	119.1	119.7	103.5	134.6	139.4	163.9	193.3	210.6	216.6	222.0	227.4
85°	58.0	60.4	51.5	71.2	71.8	84.4	96.9	103.5	105.9	110.1	114.9
87.5°	15.0	17.4	9.6	20.3	18.0	23.3	26.9	28.7	28.1	31.1	32.9
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°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2510.6	2529.8	2520.2	2551.3	2563.3	2544.2	2577.7	2578.3	2554.3	2582.5	2598.0
5°	2471.8	2491.5	2485.5	2517.8	2532.8	2516.0	2556.7	2564.5	2541.2	2572.9	2598.0
7.5°	2432.3	2455.6	2447.8	2480.7	2498.7	2485.5	2529.2	2541.8	2523.8	2558.5	2592.0
10°	2398.2	2417.9	2409.5	2444.2	2459.8	2449.0	2492.1	2515.4	2498.7	2541.2	2581.3
12.5°	2364.7	2380.8	2371.2	2400.0	2414.9	2401.2	2453.8	2475.3	2463.4	2507.7	2559.1
15°	2321.6	2339.5	2326.4	2352.1	2363.5	2351.5	2394.6	2431.7	2416.7	2465.2	2522.0
17.5°	2288.7	2298.8	2280.9	2301.2	2307.8	2291.7	2335.3	2371.8	2361.1	2413.7	2479.5
20°	2252.2	2260.5	2235.4	2246.8	2246.2	2225.8	2265.9	2301.8	2294.6	2352.7	2427.5
22.5°	2211.5	2215.7	2186.3	2188.7	2187.5	2154.0	2189.9	2226.4	2223.4	2282.1	2365.9
25°	2168.4	2169.0	2131.3	2130.1	2116.9	2077.4	2109.2	2150.4	2141.5	2204.9	2292.9
27.5°	2125.9	2119.9	2074.5	2063.7	2042.7	1995.5	2023.6	2060.7	2055.3	2117.5	2215.1
30°	2080.4	2072.7	2017.0	1997.3	1966.8	1912.3	1935.6	1970.3	1973.3	2027.8	2130.1
32.5°	2037.4	2017.6	1956.0	1927.3	1889.0	1825.5	1838.1	1873.4	1878.2	1933.2	2038.6
35°	1981.7	1968.6	1892.6	1843.5	1805.8	1736.4	1749.6	1774.1	1781.3	1835.1	1942.2
37.5°	1929.1	1908.1	1827.3	1767.5	1719.0	1646.0	1649.6	1674.8	1681.9	1736.4	1842.3
40°	1874.6	1844.7	1757.9	1687.9	1632.3	1555.7	1551.5	1577.8	1583.2	1636.5	1732.2
42.5°	1816.6	1780.7	1683.1	1606.6	1542.5	1464.7	1456.4	1479.1	1485.1	1537.1	1631.1
45°	1757.9	1714.9	1606.6	1522.8	1452.8	1373.2	1364.8	1382.2	1391.1	1440.2	1530.6
47.5°	1695.7	1645.4	1527.6	1434.2	1361.8	1282.3	1272.1	1289.4	1296.6	1345.1	1430.6
50°	1630.5	1569.5	1446.2	1343.3	1271.5	1193.1	1178.1	1198.5	1205.1	1250.5	1334.3
52.5°	1558.7	1491.1	1359.4	1251.7	1179.9	1105.1	1087.2	1106.9	1114.7	1159.0	1236.2
55°	1482.7	1409.7	1272.1	1167.4	1089.6	1016.6	1001.6	1009.4	1026.2	1068.0	1139.8
57.5°	1397.1	1324.7	1179.9	1073.4	998.6	928.6	916.1	923.2	938.8	979.5	1044.1
60°	1306.2	1229.6	1086.0	979.5	907.1	840.7	829.3	835.9	852.6	889.7	949.6
62.5°	1216.4	1130.3	989.1	883.2	817.3	755.7	752.7	750.3	765.9	801.8	854.4
65°	1107.5	1025.0	887.9	787.4	727.6	671.9	660.0	665.4	680.3	713.2	768.3
67.5°	990.9	916.1	784.4	691.7	638.4	588.8	578.6	581.0	596.5	625.3	673.1
70°	867.0	801.2	678.5	595.4	550.5	503.8	497.2	497.8	512.8	537.9	579.8
72.5°	737.2	677.9	571.4	500.2	463.1	429.6	423.6	416.4	430.2	451.7	487.7
75°	604.9	552.9	464.9	406.9	377.6	349.4	344.0	336.9	350.6	369.2	397.3
77.5°	471.5	429.6	361.4	316.5	293.8	272.8	268.1	260.3	274.0	287.8	309.9
80°	341.1	310.5	269.9	222.6	214.8	201.0	196.3	187.9	201.0	210.0	226.8
82.5°	220.2	199.8	176.5	143.6	142.4	132.2	129.8	120.3	132.2	137.6	150.2
85°	111.3	101.7	95.7	73.0	75.4	68.8	68.2	58.0	67.6	70.0	77.2
87.5°	31.7	33.5	29.9	18.0	22.7	21.5	21.5	15.6	21.5	21.5	24.5
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: P837744

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2STD-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1	2565.1
2.5°	2567.5	2577.7	2580.1	2579.5	2586.0	2621.9	2610.0	2621.9
5°	2573.5	2596.2	2602.2	2610.6	2621.3	2662.0	2648.9	2663.2
7.5°	2577.1	2611.2	2624.3	2640.5	2657.8	2703.3	2692.5	2706.9
10°	2577.1	2621.3	2640.5	2667.4	2690.8	2743.4	2733.2	2750.0
12.5°	2566.3	2623.1	2650.1	2687.8	2717.7	2774.5	2770.3	2782.3
15°	2544.2	2614.2	2651.3	2699.7	2736.8	2800.2	2798.5	2812.8
17.5°	2514.2	2598.6	2643.5	2704.5	2751.2	2822.4	2826.6	2834.4
20°	2476.5	2569.3	2627.9	2702.7	2761.4	2839.7	2845.1	2855.9
22.5°	2426.9	2534.0	2604.6	2694.9	2762.6	2846.9	2856.5	2866.7
25°	2368.2	2491.5	2574.1	2680.0	2756.6	2846.3	2859.5	2868.5
27.5°	2301.2	2436.5	2535.2	2656.0	2739.8	2836.7	2852.9	2863.7
30°	2223.4	2377.8	2490.9	2624.9	2717.1	2818.8	2836.1	2846.9
32.5°	2143.3	2313.2	2438.3	2584.8	2684.2	2790.1	2805.0	2813.4
35°	2055.9	2234.8	2374.8	2533.4	2641.7	2744.0	2755.4	2764.3
37.5°	1960.8	2149.8	2302.4	2475.3	2581.9	2680.0	2690.2	2700.3
40°	1862.6	2060.7	2221.1	2404.1	2510.6	2601.6	2612.4	2619.5
42.5°	1763.9	1962.0	2134.3	2320.4	2426.3	2513.6	2520.2	2527.4
45°	1664.0	1859.7	2036.8	2227.6	2332.3	2414.3	2416.7	2422.7
47.5°	1562.3	1753.7	1929.7	2121.7	2225.2	2300.0	2302.4	2307.2
50°	1460.0	1647.8	1815.4	2007.4	2108.6	2187.5	2176.8	2181.6
52.5°	1359.4	1536.5	1707.7	1884.2	1984.1	2054.1	2057.1	2047.5
55°	1260.7	1427.6	1585.0	1754.9	1850.1	1904.5	1902.7	1906.3
57.5°	1160.8	1317.6	1461.8	1617.3	1710.1	1761.5	1772.3	1759.7
60°	1059.1	1206.3	1335.5	1476.1	1565.9	1608.9	1621.5	1609.5
62.5°	957.9	1093.2	1210.4	1333.1	1416.3	1469.5	1468.3	1455.2
65°	856.8	979.5	1084.2	1188.3	1260.7	1314.0	1311.6	1299.6
67.5°	763.5	864.6	958.5	1042.9	1105.7	1142.2	1154.8	1140.4
70°	660.6	747.9	830.5	898.1	950.2	983.1	995.0	982.5
72.5°	557.7	631.9	689.9	755.1	795.2	822.7	835.3	823.3
75°	455.9	517.0	564.2	615.1	643.2	666.6	680.9	668.9
77.5°	357.2	404.5	442.2	479.3	511.6	517.0	529.5	521.8
80°	263.3	297.4	324.9	349.4	372.8	375.2	385.3	380.5
82.5°	175.3	198.1	205.2	231.0	245.9	243.5	253.7	250.1
85°	92.7	106.5	119.1	126.8	135.2	127.4	136.4	132.8
87.5°	31.1	32.9	28.7	40.7	44.9	38.3	43.7	41.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)