

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: P837775

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3HI-20-120-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: P837775
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-LD4-3HI-20-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

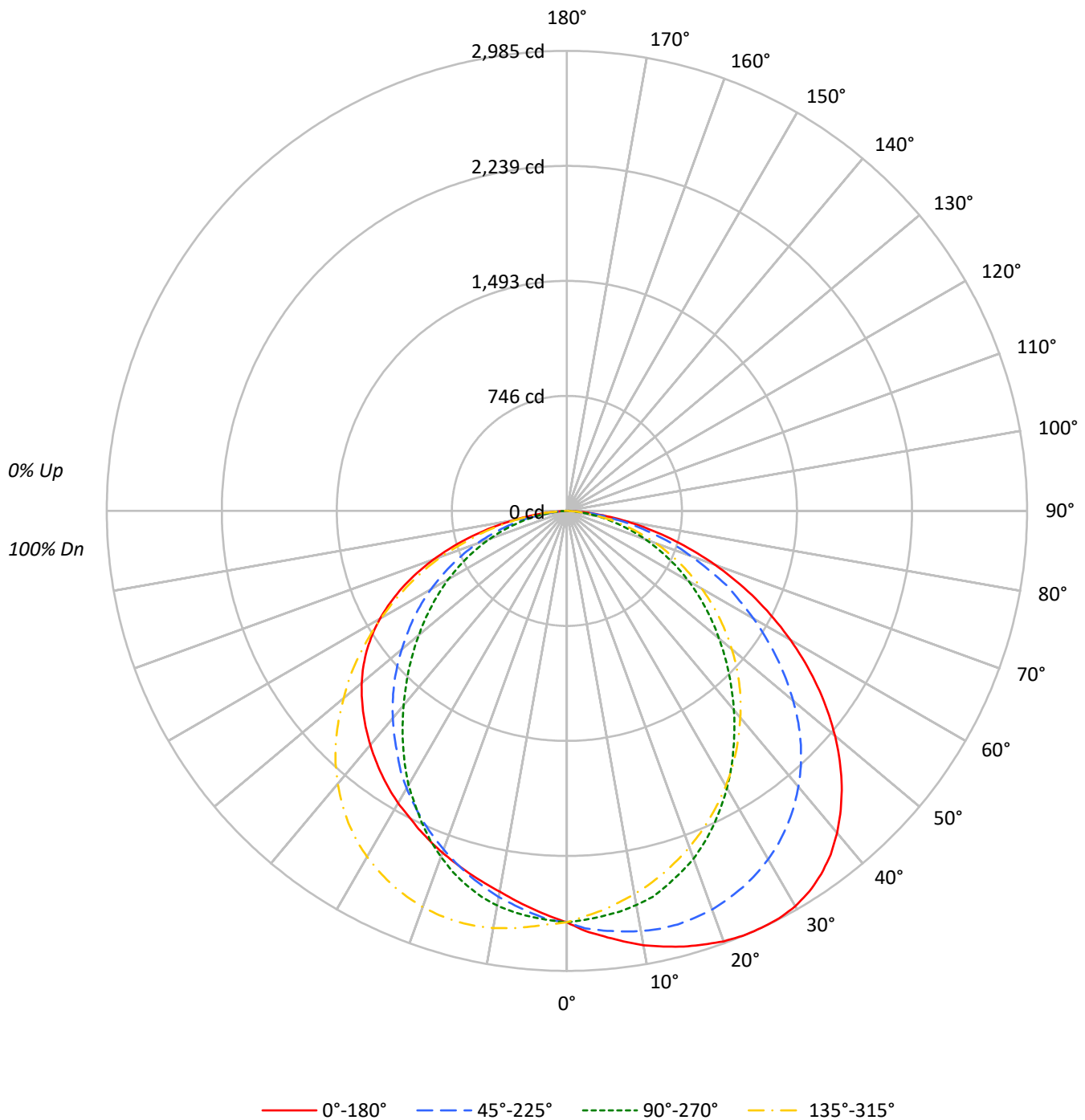
Lumens per Lamp: N/A
Luminaire Lumens: 7832.1 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



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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°	7184	7184	7184	7184
5°	7487	7132	6998	7144
10°	7820	7095	6856	7106
15°	8155	7005	6788	7007
20°	8511	6878	6759	6839
25°	8864	6686	6758	6617
30°	9206	6453	6803	6381
35°	9451	6188	6871	6090
40°	9577	5922	6967	5788
45°	9595	5652	7102	5510
50°	9505	5394	7276	5250
55°	9308	5154	7438	5010
60°	9015	4903	7537	4776
65°	8612	4615	7498	4508
70°	8045	4277	7231	4199
75°	7238	3814	6636	3794
80°	6137	3194	5577	3242
85°	4267	2115	3538	2174

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	3.2
10°-20°	733.9	9.4
20°-30°	1124.8	14.4
30°-40°	1367.7	17.5
40°-50°	1421.8	18.2
50°-60°	1284.3	16.4
60°-70°	976.4	12.5
70°-80°	544.3	7.0
80°-90°	125.3	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°	2112.2	27.0
0°-40°	3479.9	44.4
0°-60°	6186.0	79.0
0°-90°	7832.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7832.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2670	2670	2670	2670	2670	
5°	2772	2640	2590	2645	2772	267
15°	2927	2514	2437	2515	2927	830
25°	2985	2252	2276	2229	2985	1379
35°	2877	1884	2092	1854	2877	1797
45°	2521	1485	1866	1448	2521	1941
55°	1984	1098	1585	1068	1984	1771
65°	1352	725	1178	708	1352	1337
75°	696	367	638	365	696	739
85°	138	68	115	70	138	174
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°	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5
2.5°	2728.7	2688.8	2689.5	2724.3	2697.6	2710.6	2673.3	2687.6	2683.2	2686.4	2655.8
5°	2771.7	2728.7	2728.1	2758.0	2728.1	2733.7	2686.4	2695.7	2682.0	2673.3	2640.3
7.5°	2817.1	2774.2	2769.8	2795.9	2756.7	2752.4	2700.0	2700.0	2675.1	2653.3	2622.2
10°	2862.0	2817.7	2812.1	2832.1	2783.5	2769.2	2705.7	2695.7	2662.7	2630.3	2596.7
12.5°	2895.6	2850.7	2846.4	2858.8	2804.0	2777.9	2705.7	2686.4	2637.8	2592.3	2566.2
15°	2927.3	2881.3	2869.4	2875.7	2812.8	2777.9	2696.9	2667.0	2604.8	2545.0	2514.5
17.5°	2949.8	2905.5	2893.7	2893.1	2817.1	2767.3	2678.3	2637.2	2562.4	2490.2	2459.7
20°	2972.2	2928.0	2913.0	2901.8	2815.9	2753.0	2650.9	2595.4	2508.3	2427.3	2401.8
22.5°	2983.4	2937.9	2921.7	2904.9	2807.8	2726.8	2617.2	2546.9	2447.2	2350.7	2329.5
25°	2985.2	2938.5	2921.1	2896.8	2791.6	2695.7	2573.6	2488.3	2376.9	2269.8	2251.7
27.5°	2980.3	2929.2	2911.8	2882.5	2767.3	2657.7	2522.0	2421.7	2302.1	2183.8	2164.5
30°	2962.8	2911.1	2894.3	2856.3	2733.1	2611.0	2465.3	2347.6	2219.3	2093.5	2076.7
32.5°	2928.0	2877.5	2863.8	2825.8	2695.7	2556.8	2399.3	2267.9	2127.8	2007.6	1982.7
35°	2876.9	2826.5	2817.7	2777.9	2643.4	2492.1	2327.0	2180.7	2030.6	1908.0	1883.7
37.5°	2810.3	2767.9	2754.8	2715.6	2581.7	2418.6	2244.2	2086.1	1931.6	1799.6	1784.7
40°	2726.2	2686.4	2676.4	2641.5	2510.1	2337.0	2154.6	1988.3	1829.5	1706.8	1685.7
42.5°	2630.3	2592.9	2587.3	2551.2	2421.7	2246.7	2057.4	1886.8	1723.0	1604.7	1583.5
45°	2521.3	2485.2	2484.0	2449.7	2325.2	2146.5	1955.3	1784.1	1619.0	1496.4	1485.2
47.5°	2401.2	2368.8	2368.8	2337.0	2217.5	2036.2	1850.1	1676.9	1514.4	1406.1	1386.1
50°	2270.4	2239.9	2230.5	2215.0	2098.5	1916.1	1739.2	1572.3	1411.1	1307.7	1288.4
52.5°	2130.9	2104.7	2111.0	2082.3	1969.6	1790.9	1627.1	1454.6	1307.1	1213.0	1193.7
55°	1983.9	1946.6	1952.2	1941.6	1835.1	1662.0	1501.3	1357.5	1204.9	1116.5	1098.5
57.5°	1831.4	1782.8	1802.7	1796.5	1691.9	1530.0	1386.1	1247.3	1103.4	1021.9	1004.4
60°	1675.1	1628.4	1648.9	1643.3	1544.9	1398.0	1267.2	1138.3	1002.6	928.5	911.0
62.5°	1514.4	1471.5	1490.1	1485.8	1395.5	1262.8	1148.9	1030.6	901.1	834.4	818.2
65°	1352.5	1311.4	1328.2	1325.1	1241.7	1140.8	1027.5	919.1	798.9	741.0	724.8
67.5°	1186.9	1148.9	1164.5	1164.5	1087.9	991.3	905.4	806.4	698.7	648.9	633.9
70°	1022.5	987.0	1000.7	999.4	934.7	856.2	782.1	693.7	597.2	556.1	543.6
72.5°	856.8	825.7	838.2	836.9	782.7	732.3	658.8	582.2	498.2	465.2	454.0
75°	696.2	666.9	678.7	677.5	633.3	586.0	536.8	473.3	401.0	378.0	366.8
77.5°	543.0	513.1	523.1	523.1	490.7	456.4	417.2	368.0	317.0	292.0	284.0
80°	396.0	381.7	376.7	377.4	355.6	333.1	313.2	265.9	228.5	211.7	206.1
82.5°	260.3	248.5	243.5	244.7	232.3	218.6	206.1	173.1	148.2	138.2	135.1
85°	138.2	129.5	125.2	128.3	125.8	118.3	112.1	89.7	74.1	70.4	68.5
87.5°	43.6	38.0	34.9	46.1	39.2	34.9	33.6	26.8	20.5	20.5	19.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5
2.5°	2665.8	2665.8	2641.5	2635.9	2633.4	2636.5	2612.2	2607.9	2642.8	2630.9	2604.2
5°	2644.6	2643.4	2609.1	2602.9	2602.9	2599.2	2571.8	2565.5	2600.4	2590.5	2561.2
7.5°	2618.5	2614.7	2574.3	2569.9	2563.7	2561.2	2530.7	2526.3	2556.2	2550.0	2522.6
10°	2586.7	2583.0	2535.0	2531.9	2525.1	2520.1	2491.4	2488.3	2518.8	2508.9	2487.1
12.5°	2545.0	2538.1	2489.0	2485.8	2480.2	2478.4	2450.3	2449.1	2482.7	2472.8	2449.7
15°	2490.2	2484.6	2429.8	2431.0	2431.7	2431.7	2409.2	2408.0	2441.0	2436.6	2411.7
17.5°	2429.8	2422.3	2370.0	2373.8	2378.1	2383.1	2365.7	2368.8	2403.6	2398.0	2375.6
20°	2361.3	2353.8	2302.8	2313.4	2322.7	2332.7	2321.4	2330.2	2362.5	2360.1	2343.2
22.5°	2284.7	2277.2	2229.9	2246.1	2261.7	2280.3	2275.4	2285.3	2319.6	2319.0	2304.0
25°	2191.3	2193.2	2151.4	2171.4	2197.5	2223.7	2225.5	2241.7	2279.7	2276.0	2262.3
27.5°	2104.1	2106.6	2062.4	2096.0	2130.9	2164.5	2172.6	2195.0	2233.6	2230.5	2218.7
30°	2012.6	2015.7	1972.7	2018.8	2061.2	2102.3	2119.7	2150.2	2189.4	2189.4	2177.0
32.5°	1917.3	1922.9	1878.1	1939.7	1988.9	2036.9	2067.4	2099.1	2144.0	2142.7	2132.1
35°	1819.5	1825.8	1784.7	1863.1	1912.3	1970.9	2008.8	2051.2	2091.0	2091.7	2083.6
37.5°	1719.9	1727.4	1690.0	1776.0	1832.0	1901.1	1949.7	1992.0	2036.2	2038.7	2031.3
40°	1620.9	1629.0	1596.6	1679.4	1750.4	1827.6	1883.7	1933.5	1982.1	1983.3	1978.3
42.5°	1521.9	1530.6	1506.3	1587.3	1667.6	1750.4	1816.4	1873.1	1922.9	1926.0	1920.4
45°	1425.4	1432.8	1415.4	1503.8	1581.0	1671.3	1747.3	1811.4	1861.9	1866.2	1864.4
47.5°	1329.5	1336.3	1320.8	1401.7	1490.8	1586.7	1674.5	1745.4	1799.0	1804.0	1802.7
50°	1235.4	1241.1	1224.2	1308.9	1397.4	1499.5	1591.0	1673.2	1733.0	1738.0	1737.3
52.5°	1142.0	1147.6	1133.3	1222.4	1302.7	1410.4	1510.1	1599.1	1658.3	1665.7	1667.0
55°	1051.7	1054.2	1043.0	1128.3	1206.2	1318.9	1433.5	1520.0	1579.2	1585.4	1589.1
57.5°	961.5	962.1	952.7	1034.3	1109.0	1224.2	1344.4	1435.3	1491.4	1497.6	1503.2
60°	871.8	871.2	860.6	939.7	1011.3	1125.2	1250.4	1340.7	1394.9	1400.5	1407.9
62.5°	782.7	780.9	771.5	844.4	911.6	1024.4	1150.1	1237.3	1289.0	1292.7	1302.7
65°	694.3	692.4	683.7	751.0	812.0	919.7	1043.0	1125.9	1172.6	1177.5	1175.7
67.5°	607.1	603.4	596.6	657.0	712.4	812.0	930.3	1009.4	1048.0	1052.4	1064.2
70°	520.0	515.6	500.0	564.2	612.7	701.8	812.0	882.4	914.8	919.1	917.2
72.5°	434.0	429.7	412.9	472.0	513.1	590.9	689.3	747.9	775.9	779.6	779.6
75°	350.6	348.1	337.5	382.3	416.6	480.1	563.5	612.1	633.9	638.3	637.0
77.5°	270.3	268.4	257.8	296.4	323.2	370.5	437.8	475.7	491.9	496.9	507.5
80°	193.7	193.0	176.2	214.2	226.0	265.9	315.1	344.4	353.1	359.9	367.4
82.5°	123.9	124.5	107.7	140.1	145.1	170.6	201.1	219.2	225.4	231.0	236.6
85°	60.4	62.9	53.6	74.1	74.7	87.8	100.9	107.7	110.2	114.6	119.6
87.5°	15.6	18.1	10.0	21.2	18.7	24.3	28.0	29.9	29.3	32.4	34.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5
2.5°	2612.9	2632.8	2622.8	2655.2	2667.7	2647.7	2682.6	2683.2	2658.3	2687.6	2703.8
5°	2572.4	2592.9	2586.7	2620.3	2635.9	2618.5	2660.8	2668.9	2644.6	2677.6	2703.8
7.5°	2531.3	2555.6	2547.5	2581.7	2600.4	2586.7	2632.2	2645.3	2626.6	2662.7	2697.6
10°	2495.8	2516.4	2507.6	2543.8	2559.9	2548.7	2593.6	2617.9	2600.4	2644.6	2686.4
12.5°	2460.9	2477.7	2467.8	2497.7	2513.2	2498.9	2553.7	2576.1	2563.7	2609.8	2663.3
15°	2416.1	2434.8	2421.1	2447.9	2459.7	2447.2	2492.1	2530.7	2515.1	2565.5	2624.7
17.5°	2381.8	2392.4	2373.8	2394.9	2401.8	2385.0	2430.4	2468.4	2457.2	2512.0	2580.5
20°	2343.9	2352.6	2326.4	2338.3	2337.6	2316.5	2358.2	2395.5	2388.1	2448.5	2526.3
22.5°	2301.5	2305.9	2275.4	2277.9	2276.6	2241.7	2279.1	2317.1	2314.0	2375.0	2462.2
25°	2256.7	2257.3	2218.1	2216.8	2203.1	2162.0	2195.0	2238.0	2228.7	2294.7	2386.2
27.5°	2212.5	2206.2	2158.9	2147.7	2125.9	2076.7	2106.0	2144.6	2139.0	2203.8	2305.3
30°	2165.1	2157.1	2099.1	2078.6	2046.8	1990.2	2014.5	2050.6	2053.7	2110.3	2216.8
32.5°	2120.3	2099.8	2035.6	2005.7	1965.9	1899.9	1913.0	1949.7	1954.7	2012.0	2121.6
35°	2062.4	2048.7	1969.6	1918.6	1879.3	1807.1	1820.8	1846.3	1853.8	1909.8	2021.3
37.5°	2007.6	1985.8	1901.7	1839.5	1789.0	1713.1	1716.8	1743.0	1750.4	1807.1	1917.3
40°	1950.9	1919.8	1829.5	1756.7	1698.7	1619.0	1614.7	1642.1	1647.7	1703.1	1802.7
42.5°	1890.5	1853.2	1751.7	1672.0	1605.3	1524.4	1515.7	1539.3	1545.6	1599.7	1697.5
45°	1829.5	1784.7	1672.0	1584.8	1511.9	1429.1	1420.4	1438.4	1447.8	1498.9	1592.9
47.5°	1764.7	1712.4	1589.8	1492.6	1417.3	1334.5	1323.9	1341.9	1349.4	1399.8	1488.9
50°	1696.9	1633.4	1505.1	1398.0	1323.2	1241.7	1226.1	1247.3	1254.1	1301.5	1388.6
52.5°	1622.1	1551.8	1414.8	1302.7	1228.0	1150.1	1131.5	1152.0	1160.1	1206.2	1286.5
55°	1543.1	1467.1	1323.9	1214.9	1133.9	1058.0	1042.4	1050.5	1067.9	1111.5	1186.3
57.5°	1454.0	1378.7	1228.0	1117.1	1039.3	966.4	953.4	960.8	977.0	1019.4	1086.6
60°	1359.4	1279.7	1130.2	1019.4	944.0	874.9	863.1	869.9	887.4	926.0	988.2
62.5°	1266.0	1176.3	1029.3	919.1	850.6	786.5	783.4	780.9	797.1	834.4	889.2
65°	1152.6	1066.7	924.1	819.5	757.2	699.3	686.8	692.4	708.0	742.3	799.6
67.5°	1031.2	953.4	816.4	719.8	664.4	612.7	602.2	604.6	620.8	650.7	700.5
70°	902.3	833.8	706.1	619.6	572.9	524.3	517.5	518.1	533.7	559.8	603.4
72.5°	767.2	705.5	594.7	520.6	482.0	447.1	440.9	433.4	447.7	470.1	507.5
75°	629.6	575.4	483.8	423.4	392.9	363.7	358.1	350.6	364.9	384.2	413.5
77.5°	490.7	447.1	376.1	329.4	305.7	284.0	279.0	270.9	285.2	299.5	322.6
80°	354.9	323.2	280.8	231.6	223.6	209.2	204.2	195.5	209.2	218.6	236.0
82.5°	229.2	208.0	183.7	149.4	148.2	137.6	135.1	125.2	137.6	143.2	156.3
85°	115.8	105.9	99.6	76.0	78.5	71.6	71.0	60.4	70.4	72.9	80.3
87.5°	33.0	34.9	31.1	18.7	23.7	22.4	22.4	16.2	22.4	22.4	25.5
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: P837775

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3HI-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5	2669.5
2.5°	2672.0	2682.6	2685.1	2684.5	2691.3	2728.7	2716.2	2728.7
5°	2678.3	2701.9	2708.1	2716.9	2728.1	2770.4	2756.7	2771.7
7.5°	2682.0	2717.5	2731.2	2748.0	2766.1	2813.4	2802.2	2817.1
10°	2682.0	2728.1	2748.0	2776.0	2800.3	2855.1	2844.5	2862.0
12.5°	2670.8	2729.9	2758.0	2797.2	2828.3	2887.5	2883.1	2895.6
15°	2647.7	2720.6	2759.2	2809.6	2848.3	2914.3	2912.4	2927.3
17.5°	2616.6	2704.4	2751.1	2814.6	2863.2	2937.3	2941.7	2949.8
20°	2577.4	2673.9	2734.9	2812.8	2873.8	2955.4	2961.0	2972.2
22.5°	2525.7	2637.2	2710.6	2804.7	2875.0	2962.8	2972.8	2983.4
25°	2464.7	2592.9	2678.9	2789.1	2868.8	2962.2	2975.9	2985.2
27.5°	2394.9	2535.7	2638.4	2764.2	2851.4	2952.2	2969.1	2980.3
30°	2314.0	2474.6	2592.3	2731.8	2827.7	2933.6	2951.6	2962.8
32.5°	2230.5	2407.4	2537.5	2690.1	2793.5	2903.7	2919.2	2928.0
35°	2139.6	2325.8	2471.5	2636.5	2749.2	2855.7	2867.6	2876.9
37.5°	2040.6	2237.4	2396.2	2576.1	2687.0	2789.1	2799.7	2810.3
40°	1938.5	2144.6	2311.5	2502.0	2612.9	2707.5	2718.7	2726.2
42.5°	1835.7	2041.9	2221.2	2414.9	2525.1	2616.0	2622.8	2630.3
45°	1731.7	1935.4	2119.7	2318.3	2427.3	2512.6	2515.1	2521.3
47.5°	1625.9	1825.1	2008.2	2208.1	2315.8	2393.7	2396.2	2401.2
50°	1519.4	1714.9	1889.3	2089.2	2194.4	2276.6	2265.4	2270.4
52.5°	1414.8	1599.1	1777.2	1960.9	2064.9	2137.7	2140.9	2130.9
55°	1312.0	1485.8	1649.5	1826.4	1925.4	1982.1	1980.2	1983.9
57.5°	1208.0	1371.2	1521.3	1683.2	1779.7	1833.2	1844.5	1831.4
60°	1102.2	1255.4	1389.9	1536.2	1629.6	1674.5	1687.5	1675.1
62.5°	997.0	1137.7	1259.7	1387.4	1473.9	1529.4	1528.1	1514.4
65°	891.7	1019.4	1128.3	1236.7	1312.0	1367.5	1365.0	1352.5
67.5°	794.6	899.8	997.6	1085.4	1150.8	1188.7	1201.8	1186.9
70°	687.5	778.4	864.3	934.7	988.9	1023.1	1035.6	1022.5
72.5°	580.4	657.6	718.0	785.9	827.6	856.2	869.3	856.8
75°	474.5	538.0	587.2	640.1	669.4	693.7	708.6	696.2
77.5°	371.8	420.9	460.2	498.8	532.4	538.0	551.1	543.0
80°	274.0	309.5	338.1	363.7	387.9	390.4	401.0	396.0
82.5°	182.5	206.1	213.6	240.4	255.9	253.4	264.0	260.3
85°	96.5	110.8	123.9	132.0	140.7	132.6	142.0	138.2
87.5°	32.4	34.2	29.9	42.3	46.7	39.9	45.5	43.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)