

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: P838155

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4STD-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: P838155
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-4STD-20-120-EDD-90
Description: 2FT 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

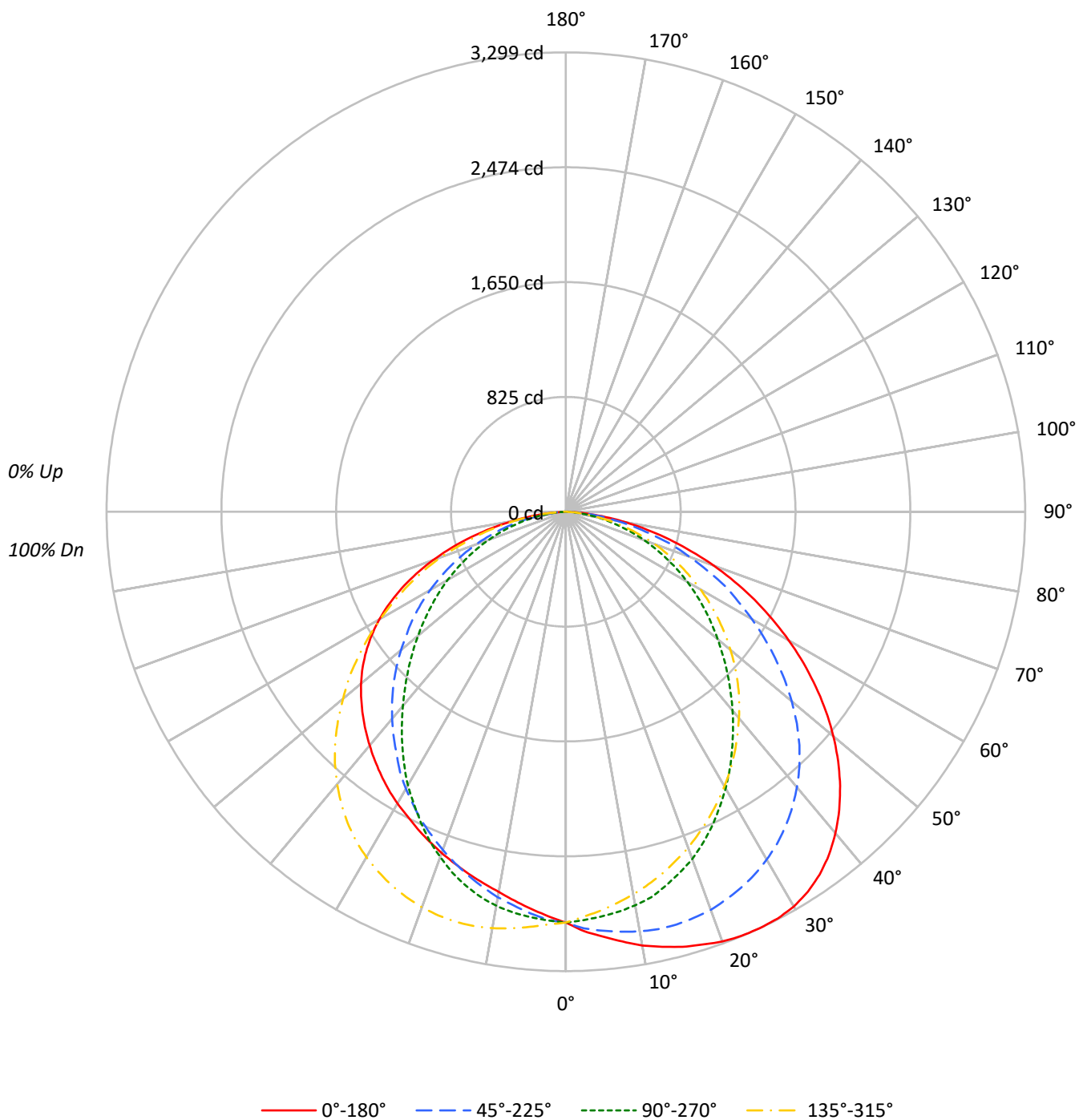
Lumens per Lamp: N/A
Luminaire Lumens: 8654.8 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	3969	3969	3969	3969
5°	4137	3941	3866	3947
10°	4321	3920	3788	3926
15°	4506	3870	3751	3871
20°	4703	3800	3734	3778
25°	4897	3694	3734	3656
30°	5087	3565	3759	3526
35°	5222	3419	3797	3365
40°	5291	3272	3850	3198
45°	5302	3123	3924	3044
50°	5252	2980	4020	2901
55°	5143	2847	4110	2768
60°	4981	2709	4165	2639
65°	4758	2550	4143	2491
70°	4445	2363	3996	2320
75°	3999	2107	3667	2096
80°	3391	1765	3082	1791
85°	2359	1169	1954	1201

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	3.2
10°-20°	811.0	9.4
20°-30°	1243.0	14.4
30°-40°	1511.4	17.5
40°-50°	1571.1	18.2
50°-60°	1419.2	16.4
60°-70°	1079.0	12.5
70°-80°	601.5	7.0
80°-90°	138.5	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°	2334.1	27.0
0°-40°	3845.4	44.4
0°-60°	6835.8	79.0
0°-90°	8654.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8654.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2950	2950	2950	2950	2950	
5°	3063	2918	2863	2922	3063	295
15°	3235	2779	2693	2779	3235	917
25°	3299	2488	2515	2463	3299	1524
35°	3179	2082	2311	2048	3179	1986
45°	2786	1641	2062	1600	2786	2145
55°	2192	1214	1752	1180	2192	1957
65°	1495	801	1301	782	1495	1477
75°	769	405	705	403	769	817
85°	153	76	127	78	153	192
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°	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0
2.5°	3015.3	2971.3	2972.0	3010.5	2980.9	2995.4	2954.1	2969.9	2965.1	2968.5	2934.8
5°	3062.8	3015.3	3014.6	3047.7	3014.6	3020.8	2968.5	2978.9	2963.7	2954.1	2917.6
7.5°	3113.0	3065.6	3060.7	3089.6	3046.3	3041.5	2983.7	2983.7	2956.2	2932.1	2897.7
10°	3162.6	3113.7	3107.5	3129.6	3075.9	3060.1	2989.9	2978.9	2942.4	2906.6	2869.4
12.5°	3199.7	3150.2	3145.4	3159.1	3098.6	3069.7	2989.9	2968.5	2914.9	2864.6	2835.7
15°	3234.8	3183.9	3170.8	3177.7	3108.2	3069.7	2980.2	2947.2	2878.4	2812.3	2778.6
17.5°	3259.6	3210.8	3197.7	3197.0	3113.0	3058.0	2959.6	2914.2	2831.6	2751.8	2718.1
20°	3284.4	3235.5	3219.0	3206.6	3111.7	3042.2	2929.3	2868.1	2771.7	2682.3	2654.1
22.5°	3296.8	3246.5	3228.6	3210.1	3102.7	3013.3	2892.2	2814.4	2704.3	2597.6	2574.2
25°	3298.8	3247.2	3228.0	3201.1	3084.8	2978.9	2844.0	2749.7	2626.5	2508.2	2488.2
27.5°	3293.3	3236.9	3217.6	3185.3	3058.0	2936.9	2786.9	2676.1	2544.0	2413.2	2391.9
30°	3274.1	3216.9	3198.4	3156.4	3020.1	2885.3	2724.3	2594.2	2452.5	2313.5	2294.9
32.5°	3235.5	3179.8	3164.7	3122.7	2978.9	2825.4	2651.3	2506.1	2351.3	2218.5	2191.0
35°	3179.1	3123.4	3113.7	3069.7	2921.1	2753.8	2571.5	2409.8	2244.0	2108.4	2081.6
37.5°	3105.5	3058.7	3044.2	3000.9	2852.9	2672.6	2480.0	2305.2	2134.5	1988.7	1972.1
40°	3012.6	2968.5	2957.5	2919.0	2773.8	2582.5	2380.9	2197.2	2021.7	1886.1	1862.7
42.5°	2906.6	2865.3	2859.1	2819.2	2676.1	2482.7	2273.5	2085.0	1904.0	1773.3	1749.9
45°	2786.2	2746.3	2744.9	2707.1	2569.4	2371.9	2160.7	1971.5	1789.1	1653.5	1641.2
47.5°	2653.4	2617.6	2617.6	2582.5	2450.4	2250.1	2044.4	1853.1	1673.5	1553.8	1531.7
50°	2508.9	2475.2	2464.8	2447.6	2319.0	2117.3	1921.9	1737.5	1559.3	1445.0	1423.7
52.5°	2354.7	2325.8	2332.7	2301.1	2176.5	1979.0	1798.1	1607.4	1444.4	1340.5	1319.1
55°	2192.3	2151.1	2157.2	2145.6	2027.9	1836.6	1659.1	1500.1	1331.5	1233.8	1213.8
57.5°	2023.8	1970.1	1992.1	1985.2	1869.6	1690.7	1531.7	1378.3	1219.3	1129.2	1109.9
60°	1851.0	1799.4	1822.1	1815.9	1707.2	1544.8	1400.3	1257.9	1107.9	1026.0	1006.7
62.5°	1673.5	1626.0	1646.7	1641.8	1542.1	1395.5	1269.6	1138.8	995.7	922.1	904.2
65°	1494.6	1449.2	1467.8	1464.3	1372.1	1260.6	1135.4	1015.7	882.9	818.9	801.0
67.5°	1311.6	1269.6	1286.8	1286.8	1202.1	1095.5	1000.5	891.1	772.1	717.0	700.5
70°	1129.9	1090.7	1105.8	1104.4	1032.9	946.2	864.3	766.6	659.9	614.5	600.7
72.5°	946.8	912.4	926.2	924.8	865.0	809.2	728.0	643.4	550.5	514.0	501.6
75°	769.3	737.0	750.0	748.7	699.8	647.5	593.2	523.0	443.1	417.7	405.3
77.5°	600.0	567.0	578.0	578.0	542.2	504.4	461.0	406.7	350.3	322.7	313.8
80°	437.6	421.8	416.3	417.0	392.9	368.1	346.1	293.8	252.5	234.0	227.8
82.5°	287.6	274.6	269.1	270.4	256.7	241.5	227.8	191.3	163.8	152.8	149.3
85°	152.8	143.1	138.3	141.8	139.0	130.7	123.9	99.1	81.9	77.8	75.7
87.5°	48.2	42.0	38.5	50.9	43.4	38.5	37.2	29.6	22.7	22.7	22.0
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°	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0
2.5°	2945.8	2945.8	2919.0	2912.8	2910.0	2913.5	2886.7	2881.8	2920.4	2907.3	2877.7
5°	2922.4	2921.1	2883.2	2876.3	2876.3	2872.2	2841.9	2835.0	2873.6	2862.6	2830.2
7.5°	2893.5	2889.4	2844.7	2839.9	2833.0	2830.2	2796.5	2791.7	2824.7	2817.8	2787.6
10°	2858.4	2854.3	2801.3	2797.9	2790.3	2784.8	2753.2	2749.7	2783.4	2772.4	2748.3
12.5°	2812.3	2804.8	2750.4	2747.0	2740.8	2738.7	2707.7	2706.4	2743.5	2732.5	2707.1
15°	2751.8	2745.6	2685.0	2686.4	2687.1	2687.1	2662.3	2661.0	2697.4	2692.6	2665.1
17.5°	2685.0	2676.8	2619.0	2623.1	2627.9	2633.4	2614.2	2617.6	2656.1	2649.9	2625.2
20°	2609.3	2601.1	2544.7	2556.4	2566.7	2577.7	2565.3	2574.9	2610.7	2608.0	2589.4
22.5°	2524.7	2516.4	2464.1	2482.0	2499.2	2519.9	2514.4	2525.4	2563.2	2562.5	2546.0
25°	2421.5	2423.5	2377.4	2399.5	2428.4	2457.3	2459.3	2477.2	2519.2	2515.1	2499.9
27.5°	2325.1	2327.9	2279.0	2316.2	2354.7	2391.9	2400.8	2425.6	2468.3	2464.8	2451.8
30°	2224.0	2227.4	2180.0	2230.9	2277.7	2323.1	2342.4	2376.1	2419.4	2419.4	2405.7
32.5°	2118.7	2124.9	2075.4	2143.5	2197.8	2250.8	2284.5	2319.6	2369.2	2367.8	2356.1
35°	2010.7	2017.6	1972.1	2058.8	2113.2	2177.9	2219.9	2266.7	2310.7	2311.4	2302.4
37.5°	1900.6	1908.8	1867.6	1962.5	2024.4	2100.8	2154.5	2201.3	2250.1	2252.9	2244.6
40°	1791.2	1800.1	1764.3	1855.9	1934.3	2019.6	2081.6	2136.6	2190.3	2191.7	2186.1
42.5°	1681.8	1691.4	1664.6	1754.0	1842.8	1934.3	2007.2	2069.9	2124.9	2128.3	2122.2
45°	1575.1	1583.4	1564.1	1661.8	1747.1	1846.9	1930.9	2001.7	2057.5	2062.3	2060.2
47.5°	1469.1	1476.7	1459.5	1549.0	1647.4	1753.3	1850.3	1928.8	1988.0	1993.5	1992.1
50°	1365.2	1371.4	1352.8	1446.4	1544.1	1657.0	1758.1	1849.0	1915.0	1920.5	1919.8
52.5°	1262.0	1268.2	1252.4	1350.8	1439.5	1558.6	1668.7	1767.1	1832.5	1840.7	1842.1
55°	1162.2	1165.0	1152.6	1246.9	1332.9	1457.4	1584.0	1679.7	1745.1	1751.9	1756.1
57.5°	1062.5	1063.1	1052.8	1143.0	1225.5	1352.8	1485.6	1586.1	1648.0	1654.9	1661.1
60°	963.4	962.7	951.0	1038.4	1117.5	1243.4	1381.7	1481.5	1541.4	1547.6	1555.8
62.5°	865.0	862.9	852.6	933.1	1007.4	1132.0	1271.0	1367.3	1424.4	1428.5	1439.5
65°	767.3	765.2	755.6	829.9	897.3	1016.3	1152.6	1244.1	1295.7	1301.2	1299.2
67.5°	670.9	666.8	659.2	726.0	787.2	897.3	1028.0	1115.4	1158.1	1162.9	1176.0
70°	574.6	569.8	552.6	623.4	677.1	775.5	897.3	975.1	1010.8	1015.7	1013.6
72.5°	479.6	474.8	456.2	521.6	567.0	653.0	761.7	826.4	857.4	861.5	861.5
75°	387.4	384.7	373.0	422.5	460.4	530.5	622.7	676.4	700.5	705.3	703.9
77.5°	298.6	296.6	284.9	327.5	357.1	409.4	483.7	525.7	543.6	549.1	560.8
80°	214.0	213.3	194.7	236.7	249.8	293.8	348.2	380.5	390.2	397.7	406.0
82.5°	136.9	137.6	119.0	154.8	160.3	188.5	222.3	242.2	249.1	255.3	261.5
85°	66.7	69.5	59.2	81.9	82.6	97.0	111.5	119.0	121.8	126.6	132.1
87.5°	17.2	20.0	11.0	23.4	20.6	26.8	31.0	33.0	32.3	35.8	37.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0
2.5°	2887.3	2909.4	2898.4	2934.1	2947.9	2925.9	2964.4	2965.1	2937.6	2969.9	2987.8
5°	2842.6	2865.3	2858.4	2895.6	2912.8	2893.5	2940.3	2949.3	2922.4	2958.9	2987.8
7.5°	2797.2	2824.0	2815.1	2852.9	2873.6	2858.4	2908.7	2923.1	2902.5	2942.4	2980.9
10°	2758.0	2780.7	2771.0	2811.0	2828.9	2816.5	2866.0	2892.8	2873.6	2922.4	2968.5
12.5°	2719.4	2738.0	2727.0	2760.0	2777.2	2761.4	2822.0	2846.7	2833.0	2883.9	2943.1
15°	2669.9	2690.5	2675.4	2705.0	2718.1	2704.3	2753.8	2796.5	2779.3	2835.0	2900.4
17.5°	2632.0	2643.7	2623.1	2646.5	2654.1	2635.5	2685.7	2727.7	2715.3	2775.9	2851.6
20°	2590.1	2599.7	2570.8	2583.9	2583.2	2559.8	2605.9	2647.2	2638.9	2705.7	2791.7
22.5°	2543.3	2548.1	2514.4	2517.1	2515.8	2477.2	2518.5	2560.5	2557.0	2624.5	2720.8
25°	2493.7	2494.4	2451.1	2449.7	2434.6	2389.1	2425.6	2473.1	2462.8	2535.7	2636.9
27.5°	2444.9	2438.0	2385.7	2373.3	2349.2	2294.9	2327.2	2369.9	2363.7	2435.2	2547.4
30°	2392.6	2383.6	2319.6	2296.9	2261.8	2199.2	2226.1	2266.0	2269.4	2332.0	2449.7
32.5°	2343.0	2320.3	2249.5	2216.4	2172.4	2099.4	2113.9	2154.5	2160.0	2223.3	2344.4
35°	2279.0	2263.9	2176.5	2120.1	2076.7	1996.9	2012.1	2040.3	2048.5	2110.5	2233.6
37.5°	2218.5	2194.4	2101.5	2032.7	1977.0	1893.0	1897.1	1926.0	1934.3	1996.9	2118.7
40°	2155.9	2121.5	2021.7	1941.2	1877.2	1789.1	1784.3	1814.6	1820.8	1882.0	1992.1
42.5°	2089.1	2047.8	1935.7	1847.6	1774.0	1684.5	1674.9	1701.0	1707.9	1767.8	1875.8
45°	2021.7	1972.1	1847.6	1751.3	1670.7	1579.2	1569.6	1589.6	1599.9	1656.3	1760.2
47.5°	1950.1	1892.3	1756.8	1649.4	1566.2	1474.6	1462.9	1482.9	1491.2	1546.9	1645.3
50°	1875.1	1804.9	1663.2	1544.8	1462.2	1372.1	1354.9	1378.3	1385.9	1438.2	1534.5
52.5°	1792.5	1714.8	1563.4	1439.5	1357.0	1271.0	1250.3	1273.0	1282.0	1332.9	1421.7
55°	1705.2	1621.2	1462.9	1342.5	1253.1	1169.1	1151.9	1160.9	1180.1	1228.3	1310.9
57.5°	1606.8	1523.5	1357.0	1234.5	1148.5	1068.0	1053.5	1061.8	1079.7	1126.4	1200.8
60°	1502.2	1414.1	1248.9	1126.4	1043.2	966.8	953.7	961.3	980.6	1023.2	1092.0
62.5°	1398.9	1299.9	1137.5	1015.7	940.0	869.1	865.7	862.9	880.8	922.1	982.6
65°	1273.7	1178.7	1021.2	905.6	836.8	772.8	759.0	765.2	782.4	820.2	883.5
67.5°	1139.5	1053.5	902.1	795.5	734.2	677.1	665.4	668.2	686.1	719.1	774.1
70°	997.1	921.4	780.3	684.7	633.1	579.4	571.8	572.5	589.7	618.6	666.8
72.5°	847.8	779.6	657.2	575.3	532.6	494.1	487.2	478.9	494.8	519.5	560.8
75°	695.7	635.8	534.7	467.9	434.2	401.9	395.7	387.4	403.2	424.6	456.9
77.5°	542.2	494.1	415.6	364.0	337.9	313.8	308.3	299.3	315.2	331.0	356.4
80°	392.2	357.1	310.3	256.0	247.0	231.2	225.7	216.1	231.2	241.5	260.8
82.5°	253.2	229.8	203.0	165.1	163.8	152.1	149.3	138.3	152.1	158.3	172.7
85°	128.0	117.0	110.1	84.0	86.7	79.1	78.4	66.7	77.8	80.5	88.8
87.5°	36.5	38.5	34.4	20.6	26.1	24.8	24.8	17.9	24.8	24.8	28.2
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: P838155

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4STD-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0
2.5°	2952.7	2964.4	2967.2	2966.5	2974.0	3015.3	3001.6	3015.3
5°	2959.6	2985.7	2992.6	3002.3	3014.6	3061.4	3046.3	3062.8
7.5°	2963.7	3002.9	3018.1	3036.7	3056.6	3108.9	3096.5	3113.0
10°	2963.7	3014.6	3036.7	3067.6	3094.5	3155.0	3143.3	3162.6
12.5°	2951.3	3016.7	3047.7	3091.0	3125.4	3190.8	3186.0	3199.7
15°	2925.9	3006.4	3049.0	3104.8	3147.4	3220.4	3218.3	3234.8
17.5°	2891.5	2988.5	3040.1	3110.3	3164.0	3245.8	3250.7	3259.6
20°	2848.1	2954.8	3022.2	3108.2	3175.7	3265.8	3272.0	3284.4
22.5°	2791.0	2914.2	2995.4	3099.3	3177.0	3274.1	3285.1	3296.8
25°	2723.6	2865.3	2960.3	3082.1	3170.2	3273.4	3288.5	3298.8
27.5°	2646.5	2802.0	2915.6	3054.6	3150.9	3262.4	3280.9	3293.3
30°	2557.0	2734.6	2864.6	3018.8	3124.7	3241.7	3261.7	3274.1
32.5°	2464.8	2660.3	2804.1	2972.7	3086.9	3208.7	3225.9	3235.5
35°	2364.4	2570.1	2731.1	2913.5	3038.0	3155.7	3168.8	3179.1
37.5°	2255.0	2472.4	2647.9	2846.7	2969.2	3082.1	3093.8	3105.5
40°	2142.1	2369.9	2554.3	2764.9	2887.3	2991.9	3004.3	3012.6
42.5°	2028.6	2256.3	2454.5	2668.5	2790.3	2890.8	2898.4	2906.6
45°	1913.7	2138.7	2342.4	2561.9	2682.3	2776.6	2779.3	2786.2
47.5°	1796.7	2016.9	2219.2	2440.1	2559.1	2645.1	2647.9	2653.4
50°	1679.0	1895.1	2087.7	2308.6	2424.9	2515.8	2503.4	2508.9
52.5°	1563.4	1767.1	1963.9	2166.9	2281.8	2362.3	2365.7	2354.7
55°	1449.9	1641.8	1822.8	2018.2	2127.7	2190.3	2188.2	2192.3
57.5°	1334.9	1515.2	1681.1	1860.0	1966.6	2025.8	2038.2	2023.8
60°	1218.0	1387.2	1535.9	1697.6	1800.8	1850.3	1864.8	1851.0
62.5°	1101.7	1257.2	1392.1	1533.1	1628.8	1690.0	1688.6	1673.5
65°	985.4	1126.4	1246.9	1366.6	1449.9	1511.1	1508.4	1494.6
67.5°	878.0	994.3	1102.4	1199.4	1271.6	1313.6	1328.1	1311.6
70°	759.7	860.1	955.1	1032.9	1092.7	1130.6	1144.3	1129.9
72.5°	641.3	726.7	793.4	868.4	914.5	946.2	960.6	946.8
75°	524.3	594.5	648.9	707.4	739.7	766.6	783.1	769.3
77.5°	410.8	465.2	508.5	551.2	588.3	594.5	609.0	600.0
80°	302.8	342.0	373.6	401.9	428.7	431.4	443.1	437.6
82.5°	201.6	227.8	236.0	265.6	282.8	280.1	291.8	287.6
85°	106.7	122.5	136.9	145.9	155.5	146.6	156.9	152.8
87.5°	35.8	37.8	33.0	46.8	51.6	44.0	50.2	48.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)