

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: P837792

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3STD-30-120-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: P837792
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-LD4-3STD-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

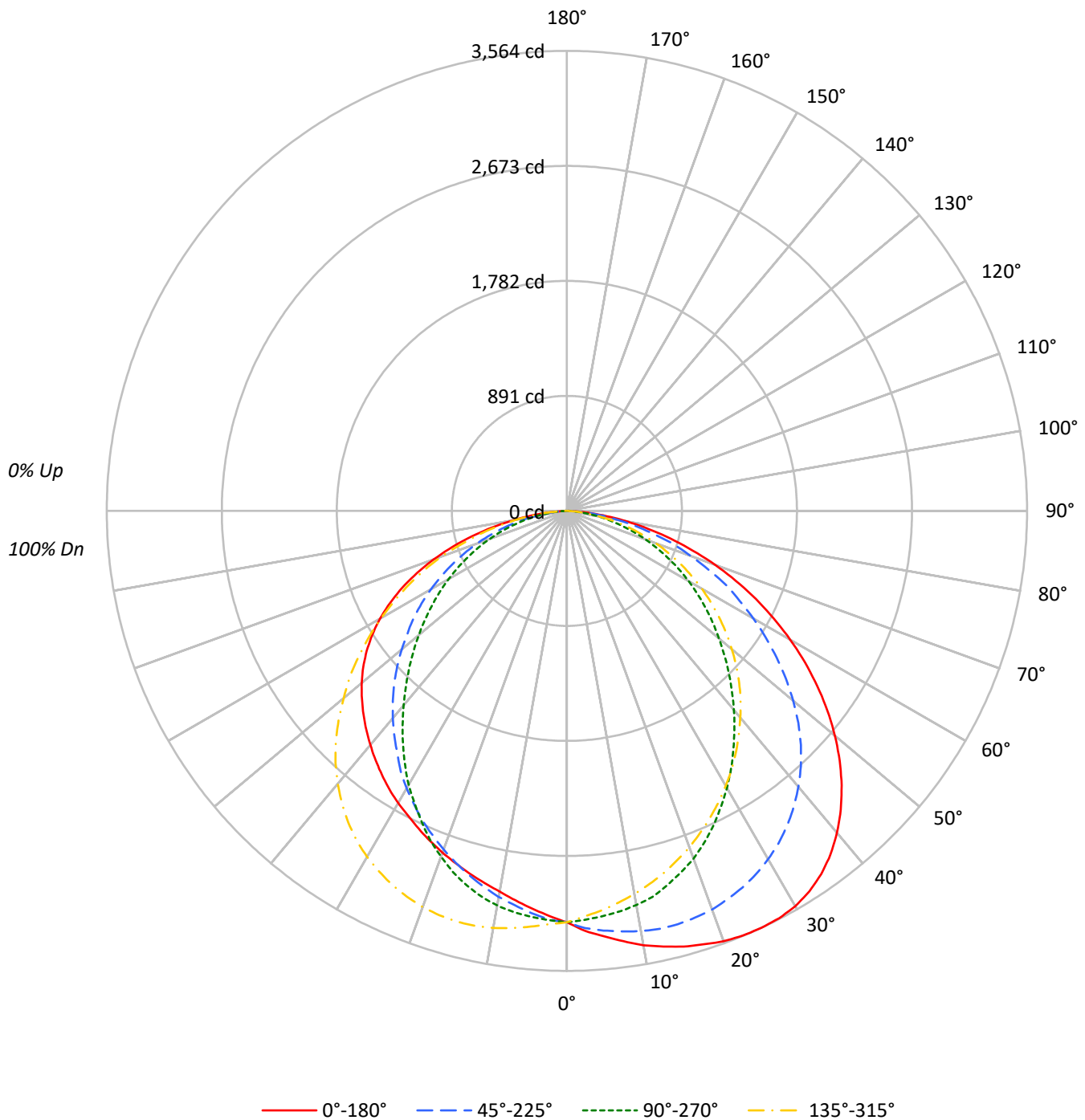
Lumens per Lamp: N/A
Luminaire Lumens: 9350.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	8576	8576	8576	8576
5°	8938	8514	8354	8528
10°	9336	8471	8184	8483
15°	9736	8363	8104	8365
20°	10161	8211	8068	8164
25°	10582	7981	8068	7900
30°	10991	7704	8122	7618
35°	11283	7387	8203	7270
40°	11433	7069	8317	6910
45°	11455	6747	8479	6578
50°	11347	6439	8686	6268
55°	11112	6153	8880	5981
60°	10762	5853	8998	5701
65°	10281	5510	8951	5382
70°	9604	5106	8633	5013
75°	8641	4553	7923	4529
80°	7327	3814	6659	3871
85°	5094	2526	4224	2594

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	3.2
10°-20°	876.2	9.4
20°-30°	1342.8	14.4
30°-40°	1632.8	17.5
40°-50°	1697.4	18.2
50°-60°	1533.2	16.4
60°-70°	1165.6	12.5
70°-80°	649.8	7.0
80°-90°	149.6	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°	2521.6	27.0
0°-40°	4154.4	44.4
0°-60°	7384.9	79.0
0°-90°	9350.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9350.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3187	3187	3187	3187	3187	
5°	3309	3152	3092	3157	3309	319
15°	3495	3002	2909	3003	3495	991
25°	3564	2688	2717	2661	3564	1646
35°	3434	2249	2497	2213	3434	2145
45°	3010	1773	2228	1728	3010	2317
55°	2368	1311	1893	1275	2368	2114
65°	1615	865	1406	845	1615	1596
75°	831	438	762	436	831	883
85°	165	82	137	84	165	208
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°	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9
2.5°	3257.6	3210.0	3210.7	3252.4	3220.4	3236.0	3191.4	3208.5	3203.3	3207.0	3170.6
5°	3308.9	3257.6	3256.8	3292.5	3256.8	3263.5	3207.0	3218.2	3201.8	3191.4	3152.0
7.5°	3363.1	3311.8	3306.6	3337.9	3291.0	3285.8	3223.4	3223.4	3193.6	3167.6	3130.4
10°	3416.7	3363.9	3357.2	3381.0	3323.0	3305.9	3230.1	3218.2	3178.8	3140.1	3100.0
12.5°	3456.8	3403.3	3398.1	3412.9	3347.5	3316.3	3230.1	3207.0	3149.0	3094.8	3063.5
15°	3494.7	3439.7	3425.6	3433.0	3357.9	3316.3	3219.7	3184.0	3109.6	3038.3	3001.8
17.5°	3521.5	3468.7	3454.6	3453.8	3363.1	3303.7	3197.3	3148.3	3059.1	2972.8	2936.4
20°	3548.2	3495.5	3477.6	3464.2	3361.6	3286.6	3164.6	3098.5	2994.4	2897.8	2867.3
22.5°	3561.6	3507.3	3488.0	3467.9	3352.0	3255.3	3124.5	3040.5	2921.5	2806.3	2781.0
25°	3563.8	3508.1	3487.3	3458.3	3332.6	3218.2	3072.5	2970.6	2837.5	2709.7	2688.1
27.5°	3557.9	3496.9	3476.1	3441.2	3303.7	3172.8	3010.8	2891.1	2748.3	2607.1	2584.0
30°	3537.1	3475.4	3455.3	3410.0	3262.8	3117.1	2943.1	2802.6	2649.5	2499.3	2479.2
32.5°	3495.5	3435.2	3418.9	3373.5	3218.2	3052.4	2864.3	2707.5	2540.2	2396.7	2367.0
35°	3434.5	3374.3	3363.9	3316.3	3155.7	2975.1	2778.1	2603.4	2424.2	2277.8	2248.8
37.5°	3354.9	3304.4	3288.8	3242.0	3082.1	2887.4	2679.2	2490.4	2306.0	2148.4	2130.6
40°	3254.6	3207.0	3195.1	3153.5	2996.6	2790.0	2572.2	2373.7	2184.1	2037.7	2012.4
42.5°	3140.1	3095.5	3088.8	3045.7	2891.1	2682.2	2456.2	2252.5	2057.0	1915.7	1890.5
45°	3010.0	2966.9	2965.4	2924.5	2775.8	2562.5	2334.3	2129.8	1932.8	1786.4	1773.0
47.5°	2866.5	2827.9	2827.9	2790.0	2647.2	2430.9	2208.6	2002.0	1807.9	1678.6	1654.8
50°	2710.4	2674.0	2662.8	2644.3	2505.2	2287.4	2076.3	1877.1	1684.5	1561.1	1538.1
52.5°	2543.9	2512.7	2520.1	2485.9	2351.4	2138.0	1942.5	1736.6	1560.4	1448.1	1425.1
55°	2368.5	2323.9	2330.5	2317.9	2190.8	1984.1	1792.3	1620.6	1438.5	1332.9	1311.4
57.5°	2186.3	2128.3	2152.1	2144.7	2019.8	1826.5	1654.8	1489.0	1317.3	1219.9	1199.1
60°	1999.7	1944.0	1968.5	1961.8	1844.4	1668.9	1512.8	1358.9	1196.9	1108.4	1087.6
62.5°	1807.9	1756.6	1778.9	1773.7	1666.0	1507.6	1371.6	1230.3	1075.7	996.2	976.8
65°	1614.7	1565.6	1585.7	1581.9	1482.3	1361.9	1226.6	1097.3	953.8	884.6	865.3
67.5°	1416.9	1371.6	1390.2	1390.2	1298.7	1183.5	1080.9	962.7	834.1	774.6	756.8
70°	1220.7	1178.3	1194.6	1193.2	1115.8	1022.2	933.7	828.1	712.9	663.9	649.0
72.5°	1022.9	985.7	1000.6	999.1	934.4	874.2	786.5	695.1	594.7	555.3	541.9
75°	831.1	796.2	810.3	808.8	756.0	699.5	640.8	565.0	478.7	451.2	437.9
77.5°	648.2	612.6	624.5	624.5	585.8	544.9	498.1	439.3	378.4	348.7	339.0
80°	472.8	455.7	449.8	450.5	424.5	397.7	373.9	317.4	272.8	252.8	246.1
82.5°	310.7	296.6	290.7	292.2	277.3	260.9	246.1	206.7	176.9	165.0	161.3
85°	165.0	154.6	149.4	153.1	150.2	141.2	133.8	107.0	88.5	84.0	81.8
87.5°	52.0	45.3	41.6	55.0	46.8	41.6	40.1	32.0	24.5	24.5	23.8
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°	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9
2.5°	3182.5	3182.5	3153.5	3146.8	3143.8	3147.5	3118.5	3113.3	3155.0	3140.9	3108.9
5°	3157.2	3155.7	3114.8	3107.4	3107.4	3102.9	3070.2	3062.8	3104.4	3092.5	3057.6
7.5°	3126.0	3121.5	3073.2	3068.0	3060.6	3057.6	3021.2	3016.0	3051.6	3044.2	3011.5
10°	3088.1	3083.6	3026.4	3022.7	3014.5	3008.5	2974.3	2970.6	3007.0	2995.1	2969.1
12.5°	3038.3	3030.1	2971.4	2967.6	2960.9	2958.7	2925.3	2923.8	2963.9	2952.0	2924.5
15°	2972.8	2966.2	2900.7	2902.2	2903.0	2903.0	2876.2	2874.7	2914.1	2908.9	2879.2
17.5°	2900.7	2891.8	2829.4	2833.8	2839.0	2845.0	2824.2	2827.9	2869.5	2862.8	2836.1
20°	2819.0	2810.0	2749.1	2761.7	2772.9	2784.8	2771.4	2781.8	2820.4	2817.5	2797.4
22.5°	2727.5	2718.6	2662.1	2681.4	2700.0	2722.3	2716.4	2728.3	2769.2	2768.4	2750.6
25°	2616.0	2618.2	2568.4	2592.2	2623.4	2654.7	2656.9	2676.2	2721.6	2717.1	2700.8
27.5°	2511.9	2514.9	2462.1	2502.3	2543.9	2584.0	2593.7	2620.5	2666.6	2662.8	2648.7
30°	2402.7	2406.4	2355.1	2410.1	2460.6	2509.7	2530.5	2566.9	2613.8	2613.8	2598.9
32.5°	2288.9	2295.6	2242.1	2315.7	2374.4	2431.7	2468.1	2506.0	2559.5	2558.0	2545.4
35°	2172.2	2179.6	2130.6	2224.2	2283.0	2352.9	2398.2	2448.7	2496.3	2497.1	2487.4
37.5°	2053.3	2062.2	2017.6	2120.2	2187.1	2269.6	2327.6	2378.1	2430.9	2433.9	2425.0
40°	1935.1	1944.7	1906.1	2004.9	2089.7	2181.9	2248.8	2308.2	2366.2	2367.7	2361.8
42.5°	1816.9	1827.3	1798.3	1894.9	1990.8	2089.7	2168.5	2236.1	2295.6	2299.3	2292.6
45°	1701.6	1710.6	1689.7	1795.3	1887.5	1995.3	2086.0	2162.5	2222.8	2228.0	2225.7
47.5°	1587.2	1595.3	1576.7	1673.4	1779.7	1894.2	1999.0	2083.7	2147.7	2153.6	2152.1
50°	1474.9	1481.6	1461.5	1562.6	1668.2	1790.1	1899.4	1997.5	2068.9	2074.8	2074.1
52.5°	1363.4	1370.1	1353.0	1459.3	1555.2	1683.8	1802.7	1909.0	1979.7	1988.6	1990.1
55°	1255.6	1258.6	1245.2	1347.0	1440.0	1574.5	1711.3	1814.6	1885.3	1892.7	1897.1
57.5°	1147.8	1148.5	1137.4	1234.8	1324.0	1461.5	1605.0	1713.5	1780.4	1787.9	1794.6
60°	1040.8	1040.0	1027.4	1121.8	1207.3	1343.3	1492.7	1600.5	1665.2	1671.9	1680.8
62.5°	934.4	932.2	921.1	1008.0	1088.3	1222.9	1373.1	1477.1	1538.8	1543.3	1555.2
65°	828.9	826.7	816.2	896.5	969.4	1098.0	1245.2	1344.1	1399.8	1405.8	1403.5
67.5°	724.8	720.4	712.2	784.3	850.4	969.4	1110.6	1205.0	1251.1	1256.3	1270.5
70°	620.7	615.5	596.9	673.5	731.5	837.8	969.4	1053.4	1092.0	1097.3	1095.0
72.5°	518.1	512.9	492.9	563.5	612.6	705.5	822.9	892.8	926.3	930.7	930.7
75°	418.5	415.6	402.9	456.4	497.3	573.2	672.8	730.8	756.8	762.0	760.5
77.5°	322.6	320.4	307.8	353.9	385.8	442.3	522.6	568.0	587.3	593.2	605.9
80°	231.2	230.5	210.4	255.7	269.9	317.4	376.2	411.1	421.5	429.7	438.6
82.5°	147.9	148.7	128.6	167.3	173.2	203.7	240.1	261.7	269.1	275.8	282.5
85°	72.1	75.1	63.9	88.5	89.2	104.8	120.4	128.6	131.6	136.8	142.7
87.5°	18.6	21.6	11.9	25.3	22.3	29.0	33.5	35.7	34.9	38.7	40.9
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°	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9
2.5°	3119.3	3143.1	3131.2	3169.8	3184.7	3160.9	3202.6	3203.3	3173.6	3208.5	3227.8
5°	3071.0	3095.5	3088.1	3128.2	3146.8	3126.0	3176.5	3186.2	3157.2	3196.6	3227.8
7.5°	3021.9	3050.9	3041.2	3082.1	3104.4	3088.1	3142.3	3157.9	3135.6	3178.8	3220.4
10°	2979.5	3004.1	2993.7	3036.8	3056.1	3042.7	3096.2	3125.2	3104.4	3157.2	3207.0
12.5°	2937.9	2958.0	2946.1	2981.8	3000.3	2983.3	3048.7	3075.4	3060.6	3115.6	3179.5
15°	2884.4	2906.7	2890.3	2922.3	2936.4	2921.5	2975.1	3021.2	3002.6	3062.8	3133.4
17.5°	2843.5	2856.1	2833.8	2859.1	2867.3	2847.2	2901.5	2946.8	2933.4	2998.9	3080.6
20°	2798.1	2808.6	2777.3	2791.5	2790.7	2765.4	2815.2	2859.8	2850.9	2923.0	3016.0
22.5°	2747.6	2752.8	2716.4	2719.3	2717.9	2676.2	2720.8	2766.2	2762.5	2835.3	2939.4
25°	2694.1	2694.8	2648.0	2646.5	2630.1	2581.1	2620.5	2671.8	2660.6	2739.4	2848.7
27.5°	2641.3	2633.9	2577.4	2564.0	2538.0	2479.2	2514.2	2560.3	2553.6	2630.9	2752.1
30°	2584.8	2575.1	2506.0	2481.5	2443.5	2375.9	2404.9	2448.0	2451.7	2519.4	2646.5
32.5°	2531.3	2506.7	2430.2	2394.5	2346.9	2268.1	2283.7	2327.6	2333.5	2401.9	2532.8
35°	2462.1	2445.8	2351.4	2290.4	2243.6	2157.3	2173.7	2204.2	2213.1	2280.0	2413.1
37.5°	2396.7	2370.7	2270.3	2196.0	2135.8	2045.1	2049.5	2080.8	2089.7	2157.3	2288.9
40°	2329.1	2291.9	2184.1	2097.1	2028.0	1932.8	1927.6	1960.3	1967.0	2033.2	2152.1
42.5°	2257.0	2212.3	2091.2	1996.0	1916.5	1819.8	1809.4	1837.7	1845.1	1909.8	2026.5
45°	2184.1	2130.6	1996.0	1891.9	1805.0	1706.1	1695.7	1717.2	1728.4	1789.4	1901.6
47.5°	2106.8	2044.3	1897.9	1781.9	1692.0	1593.1	1580.5	1602.0	1610.9	1671.2	1777.5
50°	2025.8	1949.9	1796.8	1668.9	1579.7	1482.3	1463.7	1489.0	1497.2	1553.7	1657.8
52.5°	1936.5	1852.5	1689.0	1555.2	1466.0	1373.1	1350.8	1375.3	1384.9	1440.0	1535.9
55°	1842.1	1751.4	1580.5	1450.4	1353.7	1263.0	1244.4	1254.1	1274.9	1327.0	1416.2
57.5°	1735.8	1645.9	1466.0	1333.7	1240.7	1153.8	1138.1	1147.1	1166.4	1216.9	1297.2
60°	1622.8	1527.7	1349.3	1216.9	1127.0	1044.5	1030.3	1038.5	1059.3	1105.4	1179.8
62.5°	1511.3	1404.3	1228.8	1097.3	1015.5	938.9	935.2	932.2	951.5	996.2	1061.6
65°	1376.0	1273.4	1103.2	978.3	904.0	834.8	820.0	826.7	845.2	886.1	954.5
67.5°	1231.1	1138.1	974.6	859.4	793.2	731.5	718.9	721.8	741.2	776.8	836.3
70°	1077.2	995.4	843.0	739.7	683.9	625.9	617.8	618.5	637.1	668.3	720.4
72.5°	915.9	842.3	709.9	621.5	575.4	533.8	526.3	517.4	534.5	561.3	605.9
75°	751.6	686.9	577.6	505.5	469.1	434.1	427.5	418.5	435.6	458.7	493.6
77.5°	585.8	533.8	449.0	393.3	365.0	339.0	333.0	323.4	340.5	357.6	385.1
80°	423.7	385.8	335.3	276.5	266.9	249.8	243.8	233.4	249.8	260.9	281.7
82.5°	273.6	248.3	219.3	178.4	176.9	164.3	161.3	149.4	164.3	171.0	186.6
85°	138.3	126.4	118.9	90.7	93.7	85.5	84.7	72.1	84.0	87.0	95.9
87.5°	39.4	41.6	37.2	22.3	28.2	26.8	26.8	19.3	26.8	26.8	30.5
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: P837792

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3STD-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9	3186.9
2.5°	3189.9	3202.6	3205.5	3204.8	3213.0	3257.6	3242.7	3257.6
5°	3197.3	3225.6	3233.0	3243.4	3256.8	3307.4	3291.0	3308.9
7.5°	3201.8	3244.2	3260.5	3280.6	3302.2	3358.7	3345.3	3363.1
10°	3201.8	3256.8	3280.6	3314.1	3343.1	3408.5	3395.8	3416.7
12.5°	3188.4	3259.1	3292.5	3339.3	3376.5	3447.1	3441.9	3456.8
15°	3160.9	3247.9	3294.0	3354.2	3400.3	3479.1	3476.9	3494.7
17.5°	3123.8	3228.6	3284.3	3360.2	3418.1	3506.6	3511.8	3521.5
20°	3076.9	3192.1	3265.0	3357.9	3430.8	3528.2	3534.9	3548.2
22.5°	3015.2	3148.3	3236.0	3348.3	3432.3	3537.1	3549.0	3561.6
25°	2942.4	3095.5	3198.1	3329.7	3424.8	3536.3	3552.7	3563.8
27.5°	2859.1	3027.1	3149.8	3299.9	3404.0	3524.4	3544.5	3557.9
30°	2762.5	2954.3	3094.8	3261.3	3375.8	3502.1	3523.7	3537.1
32.5°	2662.8	2874.0	3029.3	3211.5	3334.9	3466.5	3485.0	3495.5
35°	2554.3	2776.6	2950.5	3147.5	3282.1	3409.2	3423.3	3434.5
37.5°	2436.1	2671.0	2860.6	3075.4	3207.8	3329.7	3342.3	3354.9
40°	2314.2	2560.3	2759.5	2987.0	3119.3	3232.3	3245.7	3254.6
42.5°	2191.5	2437.6	2651.7	2882.9	3014.5	3123.0	3131.2	3140.1
45°	2067.4	2310.5	2530.5	2767.7	2897.8	2999.6	3002.6	3010.0
47.5°	1941.0	2178.9	2397.5	2636.1	2764.7	2857.6	2860.6	2866.5
50°	1813.9	2047.3	2255.5	2494.1	2619.7	2717.9	2704.5	2710.4
52.5°	1689.0	1909.0	2121.7	2341.0	2465.1	2552.1	2555.8	2543.9
55°	1566.3	1773.7	1969.3	2180.4	2298.6	2366.2	2364.0	2368.5
57.5°	1442.2	1637.0	1816.1	2009.4	2124.6	2188.6	2201.9	2186.3
60°	1315.8	1498.7	1659.3	1834.0	1945.5	1999.0	2014.6	1999.7
62.5°	1190.2	1358.2	1503.9	1656.3	1759.6	1825.8	1824.3	1807.9
65°	1064.5	1216.9	1347.0	1476.4	1566.3	1632.5	1629.5	1614.7
67.5°	948.6	1074.2	1190.9	1295.7	1373.8	1419.1	1434.8	1416.9
70°	820.7	929.2	1031.8	1115.8	1180.5	1221.4	1236.3	1220.7
72.5°	692.8	785.0	857.1	938.2	988.0	1022.2	1037.8	1022.9
75°	566.5	642.3	701.0	764.2	799.2	828.1	846.0	831.1
77.5°	443.8	502.5	549.4	595.5	635.6	642.3	657.9	648.2
80°	327.1	369.5	403.7	434.1	463.1	466.1	478.7	472.8
82.5°	217.8	246.1	255.0	287.0	305.5	302.6	315.2	310.7
85°	115.2	132.3	147.9	157.6	168.0	158.3	169.5	165.0
87.5°	38.7	40.9	35.7	50.6	55.8	47.6	54.3	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)