

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: P838208

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4LO-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: P838208
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-LD4-4LO-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

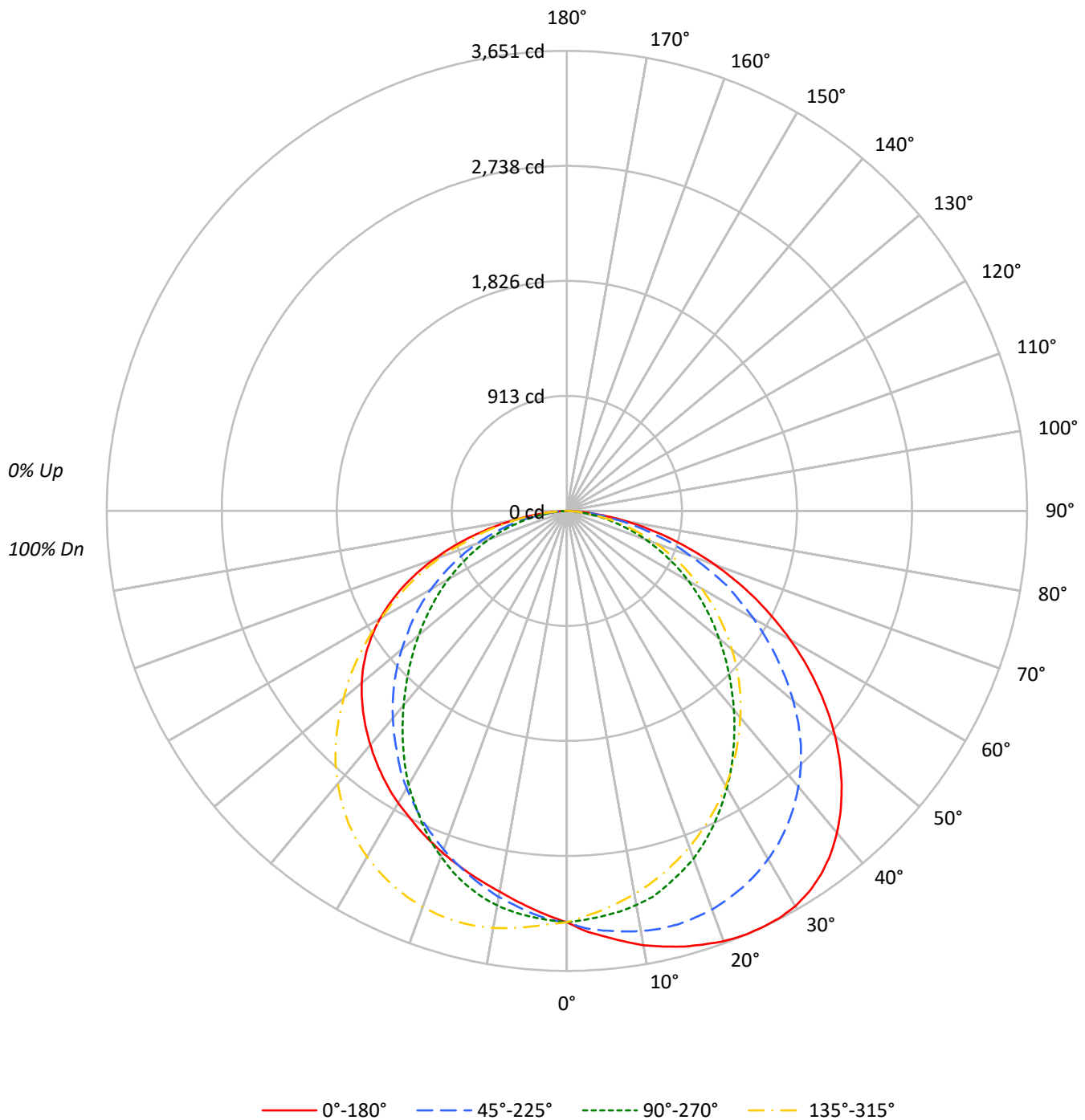
Lumens per Lamp: N/A
Luminaire Lumens: 9578.7 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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	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°	4393	4393	4393	4393
5°	4578	4361	4279	4368
10°	4782	4339	4192	4345
15°	4987	4284	4151	4285
20°	5205	4206	4133	4182
25°	5420	4088	4132	4047
30°	5630	3946	4160	3902
35°	5779	3784	4202	3724
40°	5856	3621	4260	3539
45°	5868	3456	4343	3369
50°	5812	3298	4449	3211
55°	5692	3151	4548	3064
60°	5513	2998	4609	2920
65°	5266	2822	4585	2757
70°	4919	2616	4422	2568
75°	4426	2332	4058	2320
80°	3753	1953	3411	1983
85°	2611	1294	2163	1329

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.0	3.2
10°-20°	897.6	9.4
20°-30°	1375.6	14.4
30°-40°	1672.7	17.5
40°-50°	1738.9	18.2
50°-60°	1570.7	16.4
60°-70°	1194.2	12.5
70°-80°	665.7	7.0
80°-90°	153.3	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°	2583.2	27.0
0°-40°	4255.9	44.4
0°-60°	7565.5	79.0
0°-90°	9578.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9578.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3265	3265	3265	3265	3265	
5°	3390	3229	3168	3234	3390	327
15°	3580	3075	2980	3076	3580	1015
25°	3651	2754	2784	2726	3651	1686
35°	3518	2304	2558	2267	3518	2198
45°	3084	1816	2282	1771	3084	2374
55°	2426	1343	1939	1306	2426	2166
65°	1654	886	1440	866	1654	1635
75°	851	449	781	446	851	904
85°	169	84	140	86	169	213
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°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3337.2	3288.5	3289.2	3331.9	3299.1	3315.1	3269.4	3287.0	3281.6	3285.4	3248.1
5°	3389.8	3337.2	3336.5	3373.0	3336.5	3343.3	3285.4	3296.9	3280.1	3269.4	3229.1
7.5°	3445.4	3392.8	3387.5	3419.5	3371.5	3366.2	3302.2	3302.2	3271.7	3245.1	3207.0
10°	3500.2	3446.1	3439.3	3463.6	3404.2	3386.7	3309.0	3296.9	3256.5	3216.9	3175.8
12.5°	3541.3	3486.5	3481.2	3496.4	3429.4	3397.4	3309.0	3285.4	3226.0	3170.4	3138.4
15°	3580.2	3523.8	3509.3	3516.9	3440.0	3397.4	3298.4	3261.8	3185.7	3112.6	3075.2
17.5°	3607.6	3553.5	3539.0	3538.3	3445.4	3384.4	3275.5	3225.3	3133.9	3045.5	3008.2
20°	3635.0	3580.9	3562.6	3548.9	3443.8	3366.9	3242.0	3174.2	3067.6	2968.6	2937.4
22.5°	3648.7	3593.1	3573.3	3552.7	3433.9	3334.9	3200.9	3114.8	2993.0	2874.9	2849.0
25°	3651.0	3593.9	3572.5	3542.8	3414.1	3296.9	3147.6	3043.2	2906.9	2775.9	2753.8
27.5°	3644.9	3582.4	3561.1	3525.3	3384.4	3250.4	3084.4	2961.8	2815.5	2670.8	2647.2
30°	3623.6	3560.4	3539.8	3493.3	3342.5	3193.3	3015.1	2871.1	2714.2	2560.4	2539.8
32.5°	3580.9	3519.2	3502.5	3456.0	3296.9	3127.0	2934.3	2773.7	2602.3	2455.3	2424.8
35°	3518.5	3456.8	3446.1	3397.4	3232.9	3047.8	2846.0	2667.0	2483.5	2333.5	2303.8
37.5°	3437.0	3385.2	3369.2	3321.2	3157.5	2958.0	2744.7	2551.3	2362.4	2200.9	2182.7
40°	3334.2	3285.4	3273.2	3230.6	3069.9	2858.2	2635.0	2431.7	2237.5	2087.5	2061.6
42.5°	3216.9	3171.2	3164.3	3120.2	2961.8	2747.8	2516.2	2307.6	2107.3	1962.6	1936.7
45°	3083.6	3039.4	3037.9	2996.0	2843.7	2625.1	2391.3	2181.9	1980.1	1830.1	1816.4
47.5°	2936.6	2897.0	2897.0	2858.2	2712.0	2490.3	2262.6	2050.9	1852.1	1719.6	1695.3
50°	2776.7	2739.4	2728.0	2708.9	2566.5	2343.4	2127.1	1923.0	1725.7	1599.3	1575.7
52.5°	2606.1	2574.1	2581.7	2546.7	2408.9	2190.3	1990.0	1779.0	1598.5	1483.5	1459.9
55°	2426.4	2380.7	2387.5	2374.6	2244.4	2032.6	1836.2	1660.2	1473.6	1365.5	1343.4
57.5°	2239.8	2180.4	2204.8	2197.1	2069.2	1871.2	1695.3	1525.4	1349.5	1249.7	1228.4
60°	2048.6	1991.5	2016.6	2009.8	1889.5	1709.7	1549.8	1392.2	1226.1	1135.5	1114.2
62.5°	1852.1	1799.6	1822.4	1817.1	1706.7	1544.5	1405.1	1260.4	1102.0	1020.5	1000.7
65°	1654.1	1603.9	1624.4	1620.6	1518.6	1395.2	1256.6	1124.1	977.1	906.3	886.5
67.5°	1451.6	1405.1	1424.1	1424.1	1330.5	1212.4	1107.3	986.2	854.5	793.6	775.3
70°	1250.5	1207.1	1223.8	1222.3	1143.1	1047.2	956.5	848.4	730.3	680.1	664.9
72.5°	1047.9	1009.8	1025.1	1023.6	957.3	895.6	805.7	712.1	609.3	568.9	555.2
75°	851.4	815.6	830.1	828.6	774.5	716.6	656.5	578.8	490.5	462.3	448.6
77.5°	664.1	627.5	639.7	639.7	600.1	558.2	510.3	450.1	387.6	357.2	347.3
80°	484.4	466.8	460.8	461.5	434.9	407.4	383.1	325.2	279.5	258.9	252.1
82.5°	318.3	303.9	297.8	299.3	284.1	267.3	252.1	211.7	181.3	169.1	165.3
85°	169.1	158.4	153.1	156.9	153.8	144.7	137.1	109.7	90.6	86.1	83.8
87.5°	53.3	46.5	42.6	56.4	48.0	42.6	41.1	32.7	25.1	25.1	24.4
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°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3260.3	3260.3	3230.6	3223.7	3220.7	3224.5	3194.8	3189.5	3232.1	3217.6	3184.9
5°	3234.4	3232.9	3191.0	3183.4	3183.4	3178.8	3145.3	3137.7	3180.3	3168.1	3132.4
7.5°	3202.4	3197.8	3148.3	3143.0	3135.4	3132.4	3095.0	3089.7	3126.3	3118.6	3085.1
10°	3163.6	3159.0	3100.4	3096.6	3088.2	3082.1	3047.1	3043.2	3080.6	3068.4	3041.7
12.5°	3112.6	3104.2	3044.0	3040.2	3033.3	3031.1	2996.8	2995.3	3036.4	3024.2	2996.0
15°	3045.5	3038.7	2971.7	2973.2	2973.9	2973.9	2946.5	2945.0	2985.4	2980.0	2949.6
17.5°	2971.7	2962.5	2898.5	2903.1	2908.4	2914.5	2893.2	2897.0	2939.7	2932.8	2905.4
20°	2887.9	2878.7	2816.3	2829.2	2840.7	2852.9	2839.1	2849.8	2889.4	2886.4	2865.8
22.5°	2794.2	2785.1	2727.2	2747.0	2766.0	2788.9	2782.8	2795.0	2836.9	2836.1	2817.8
25°	2680.0	2682.3	2631.2	2655.6	2687.6	2719.6	2721.9	2741.7	2788.1	2783.6	2766.8
27.5°	2573.4	2576.4	2522.3	2563.5	2606.1	2647.2	2657.1	2684.5	2731.8	2728.0	2713.5
30°	2461.4	2465.2	2412.7	2469.0	2520.8	2571.1	2592.4	2629.7	2677.7	2677.7	2662.5
32.5°	2344.9	2351.7	2296.9	2372.3	2432.5	2491.1	2528.4	2567.3	2622.1	2620.6	2607.6
35°	2225.3	2232.9	2182.7	2278.6	2338.8	2410.4	2456.8	2508.6	2557.4	2558.1	2548.2
37.5°	2103.5	2112.6	2066.9	2172.0	2240.5	2325.1	2384.5	2436.3	2490.3	2493.4	2484.3
40°	1982.4	1992.3	1952.7	2054.0	2140.8	2235.2	2303.8	2364.7	2424.1	2425.6	2419.5
42.5°	1861.3	1871.9	1842.2	1941.3	2039.5	2140.8	2221.5	2290.8	2351.7	2355.5	2348.7
45°	1743.2	1752.4	1731.1	1839.2	1933.6	2044.1	2137.0	2215.4	2277.1	2282.4	2280.2
47.5°	1626.0	1634.3	1615.3	1714.3	1823.2	1940.5	2047.9	2134.7	2200.2	2206.3	2204.8
50°	1511.0	1517.8	1497.3	1600.8	1709.0	1833.9	1945.8	2046.3	2119.5	2125.6	2124.8
52.5°	1396.7	1403.6	1386.1	1495.0	1593.2	1725.0	1846.8	1955.7	2028.1	2037.2	2038.7
55°	1286.3	1289.3	1275.6	1380.0	1475.2	1613.0	1753.1	1859.0	1931.3	1939.0	1943.5
57.5°	1175.9	1176.6	1165.2	1265.0	1356.4	1497.3	1644.2	1755.4	1824.0	1831.6	1838.4
60°	1066.2	1065.4	1052.5	1149.2	1236.8	1376.2	1529.2	1639.7	1705.9	1712.8	1721.9
62.5°	957.3	955.0	943.6	1032.7	1114.9	1252.8	1406.6	1513.2	1576.5	1581.0	1593.2
65°	849.2	846.9	836.2	918.5	993.1	1124.8	1275.6	1376.9	1434.0	1440.1	1437.9
67.5°	742.5	738.0	729.6	803.5	871.2	993.1	1137.8	1234.5	1281.7	1287.1	1301.5
70°	635.9	630.6	611.5	690.0	749.4	858.3	993.1	1079.1	1118.8	1124.1	1121.8
72.5°	530.8	525.5	504.9	577.3	627.5	722.7	843.1	914.6	948.9	953.5	953.5
75°	428.8	425.7	412.8	467.6	509.5	587.2	689.2	748.6	775.3	780.6	779.1
77.5°	330.5	328.2	315.3	362.5	395.3	453.1	535.4	581.8	601.6	607.7	620.7
80°	236.8	236.1	215.5	262.0	276.5	325.2	385.4	421.2	431.8	440.2	449.3
82.5°	151.6	152.3	131.8	171.4	177.4	208.7	246.0	268.1	275.7	282.5	289.4
85°	73.9	76.9	65.5	90.6	91.4	107.4	123.4	131.8	134.8	140.1	146.2
87.5°	19.0	22.1	12.2	25.9	22.8	29.7	34.3	36.6	35.8	39.6	41.9
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°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3195.6	3219.9	3207.7	3247.3	3262.6	3238.2	3280.9	3281.6	3251.2	3287.0	3306.8
5°	3146.1	3171.2	3163.6	3204.7	3223.7	3202.4	3254.2	3264.1	3234.4	3274.8	3306.8
7.5°	3095.8	3125.5	3115.6	3157.5	3180.3	3163.6	3219.2	3235.2	3212.3	3256.5	3299.1
10°	3052.4	3077.5	3066.9	3111.0	3130.8	3117.1	3172.0	3201.7	3180.3	3234.4	3285.4
12.5°	3009.7	3030.3	3018.1	3054.7	3073.7	3056.2	3123.2	3150.6	3135.4	3191.8	3257.2
15°	2954.9	2977.8	2961.0	2993.7	3008.2	2993.0	3047.8	3095.0	3076.0	3137.7	3210.0
17.5°	2913.0	2926.0	2903.1	2929.0	2937.4	2916.8	2972.4	3018.9	3005.2	3072.2	3156.0
20°	2866.6	2877.2	2845.2	2859.7	2858.9	2833.1	2884.1	2929.8	2920.6	2994.5	3089.7
22.5°	2814.8	2820.1	2782.8	2785.8	2784.3	2741.7	2787.4	2833.8	2830.0	2904.6	3011.3
25°	2759.9	2760.7	2712.7	2711.2	2694.4	2644.2	2684.5	2737.1	2725.7	2806.4	2918.3
27.5°	2705.9	2698.3	2640.4	2626.7	2600.0	2539.8	2575.6	2622.9	2616.0	2695.2	2819.3
30°	2648.0	2638.1	2567.3	2542.1	2503.3	2434.0	2463.7	2507.9	2511.7	2581.0	2711.2
32.5°	2593.2	2568.0	2489.6	2453.0	2404.3	2323.6	2339.6	2384.5	2390.6	2460.6	2594.7
35°	2522.3	2505.6	2408.9	2346.4	2298.4	2210.1	2226.8	2258.1	2267.2	2335.7	2472.1
37.5°	2455.3	2428.7	2325.8	2249.7	2188.0	2095.1	2099.7	2131.6	2140.8	2210.1	2344.9
40°	2386.0	2347.9	2237.5	2148.4	2077.6	1980.1	1974.8	2008.3	2015.1	2082.9	2204.8
42.5°	2312.1	2266.4	2142.3	2044.8	1963.3	1864.3	1853.7	1882.6	1890.2	1956.5	2076.0
45°	2237.5	2182.7	2044.8	1938.2	1849.1	1747.8	1737.1	1759.2	1770.7	1833.1	1948.1
47.5°	2158.3	2094.3	1944.3	1825.5	1733.3	1632.1	1619.1	1641.2	1650.3	1712.0	1820.9
50°	2075.3	1997.6	1840.7	1709.7	1618.3	1518.6	1499.5	1525.4	1533.8	1591.7	1698.3
52.5°	1983.9	1897.8	1730.3	1593.2	1501.8	1406.6	1383.8	1408.9	1418.8	1475.2	1573.4
55°	1887.2	1794.3	1619.1	1485.8	1386.8	1293.9	1274.9	1284.8	1306.1	1359.4	1450.8
57.5°	1778.3	1686.1	1501.8	1366.3	1271.1	1182.0	1166.0	1175.1	1194.9	1246.7	1328.9
60°	1662.5	1565.0	1382.3	1246.7	1154.5	1070.0	1055.5	1063.9	1085.2	1132.5	1208.6
62.5°	1548.3	1438.6	1258.9	1124.1	1040.3	961.9	958.1	955.0	974.8	1020.5	1087.5
65°	1409.7	1304.6	1130.2	1002.2	926.1	855.2	840.0	846.9	865.9	907.8	977.9
67.5°	1261.2	1166.0	998.4	880.4	812.6	749.4	736.4	739.5	759.3	795.8	856.8
70°	1103.5	1019.7	863.6	757.8	700.6	641.2	632.9	633.6	652.7	684.7	738.0
72.5°	938.3	862.9	727.3	636.7	589.5	546.8	539.2	530.1	547.6	575.0	620.7
75°	770.0	703.7	591.7	517.9	480.6	444.8	437.9	428.8	446.3	469.9	505.7
77.5°	600.1	546.8	460.0	402.9	373.9	347.3	341.2	331.3	348.8	366.3	394.5
80°	434.1	395.3	343.5	283.3	273.4	255.9	249.8	239.1	255.9	267.3	288.6
82.5°	280.3	254.4	224.7	182.8	181.3	168.3	165.3	153.1	168.3	175.2	191.2
85°	141.7	129.5	121.9	92.9	96.0	87.6	86.8	73.9	86.1	89.1	98.2
87.5°	40.4	42.6	38.1	22.8	28.9	27.4	27.4	19.8	27.4	27.4	31.2
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: P838208

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3267.9	3280.9	3283.9	3283.1	3291.5	3337.2	3322.0	3337.2
5°	3275.5	3304.5	3312.1	3322.7	3336.5	3388.2	3371.5	3389.8
7.5°	3280.1	3323.5	3340.3	3360.8	3382.9	3440.8	3427.1	3445.4
10°	3280.1	3336.5	3360.8	3395.1	3424.8	3491.8	3478.9	3500.2
12.5°	3266.4	3338.7	3373.0	3421.0	3459.1	3531.4	3526.1	3541.3
15°	3238.2	3327.3	3374.5	3436.2	3483.4	3564.2	3561.9	3580.2
17.5°	3200.1	3307.5	3364.6	3442.3	3501.7	3592.3	3597.7	3607.6
20°	3152.2	3270.2	3344.8	3440.0	3514.7	3614.4	3621.3	3635.0
22.5°	3088.9	3225.3	3315.1	3430.1	3516.2	3623.6	3635.8	3648.7
25°	3014.3	3171.2	3276.3	3411.1	3508.6	3622.8	3639.6	3651.0
27.5°	2929.0	3101.1	3226.8	3380.6	3487.2	3610.6	3631.2	3644.9
30°	2830.0	3026.5	3170.4	3341.0	3458.3	3587.8	3609.9	3623.6
32.5°	2728.0	2944.2	3103.4	3290.0	3416.4	3551.2	3570.3	3580.9
35°	2616.8	2844.5	3022.7	3224.5	3362.3	3492.6	3507.0	3518.5
37.5°	2495.7	2736.3	2930.5	3150.6	3286.2	3411.1	3424.0	3437.0
40°	2370.8	2622.9	2827.0	3060.0	3195.6	3311.3	3325.0	3334.2
42.5°	2245.1	2497.2	2716.5	2953.4	3088.2	3199.4	3207.7	3216.9
45°	2117.9	2367.0	2592.4	2835.3	2968.6	3072.9	3076.0	3083.6
47.5°	1988.5	2232.2	2456.1	2700.5	2832.3	2927.5	2930.5	2936.6
50°	1858.2	2097.4	2310.6	2555.1	2683.8	2784.3	2770.6	2776.7
52.5°	1730.3	1955.7	2173.5	2398.2	2525.4	2614.5	2618.3	2606.1
55°	1604.6	1817.1	2017.4	2233.7	2354.8	2424.1	2421.8	2426.4
57.5°	1477.5	1677.0	1860.5	2058.5	2176.6	2242.1	2255.8	2239.8
60°	1348.0	1535.3	1699.8	1878.8	1993.0	2047.9	2063.9	2048.6
62.5°	1219.3	1391.4	1540.7	1696.8	1802.6	1870.4	1868.9	1852.1
65°	1090.6	1246.7	1380.0	1512.5	1604.6	1672.4	1669.4	1654.1
67.5°	971.8	1100.5	1220.0	1327.4	1407.4	1453.8	1469.8	1451.6
70°	840.8	952.0	1057.1	1143.1	1209.4	1251.3	1266.5	1250.5
72.5°	709.8	804.2	878.1	961.1	1012.1	1047.2	1063.2	1047.9
75°	580.3	658.0	718.2	782.9	818.7	848.4	866.7	851.4
77.5°	454.7	514.8	562.8	610.0	651.1	658.0	674.0	664.1
80°	335.1	378.5	413.5	444.8	474.5	477.5	490.5	484.4
82.5°	223.1	252.1	261.2	294.0	313.0	310.0	322.9	318.3
85°	118.0	135.6	151.6	161.5	172.1	162.2	173.6	169.1
87.5°	39.6	41.9	36.6	51.8	57.1	48.7	55.6	53.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)