

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: P838160

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6LO-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: P838160
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-LD4-6LO-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

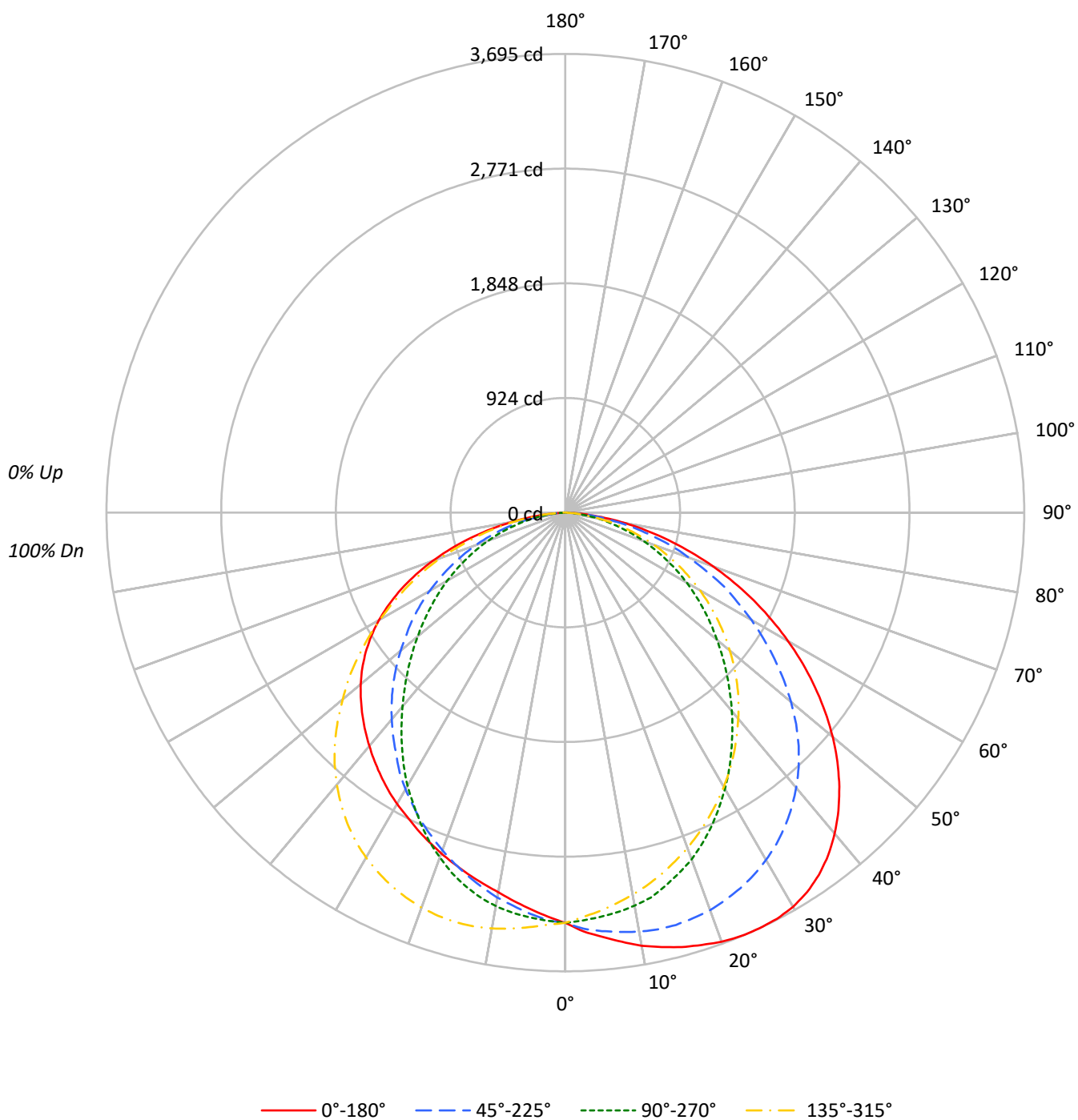
Lumens per Lamp: N/A
Luminaire Lumens: 9694.1 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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°	4446	4446	4446	4446
5°	4633	4414	4331	4421
10°	4840	4391	4243	4397
15°	5047	4335	4201	4336
20°	5267	4257	4183	4232
25°	5486	4138	4182	4095
30°	5697	3993	4210	3949
35°	5849	3830	4252	3769
40°	5927	3665	4312	3582
45°	5938	3498	4395	3410
50°	5882	3338	4503	3249
55°	5760	3189	4603	3101
60°	5579	3034	4665	2956
65°	5330	2856	4640	2790
70°	4979	2647	4475	2598
75°	4480	2360	4107	2348
80°	3798	1977	3452	2007
85°	2641	1309	2189	1345

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	3.2
10°-20°	908.4	9.4
20°-30°	1392.2	14.4
30°-40°	1692.8	17.5
40°-50°	1759.8	18.2
50°-60°	1589.6	16.4
60°-70°	1208.5	12.5
70°-80°	673.8	7.0
80°-90°	155.1	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°	2614.4	27.0
0°-40°	4307.2	44.4
0°-60°	7656.7	79.0
0°-90°	9694.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9694.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3304	3304	3304	3304	3304	
5°	3431	3268	3206	3273	3431	331
15°	3623	3112	3016	3113	3623	1027
25°	3695	2787	2817	2758	3695	1707
35°	3561	2332	2589	2294	3561	2224
45°	3121	1838	2310	1792	3121	2403
55°	2456	1360	1962	1322	2456	2192
65°	1674	897	1458	876	1674	1654
75°	862	454	790	452	862	915
85°	171	85	142	87	171	215
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°	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2
2.5°	3377.4	3328.1	3328.9	3372.0	3338.9	3355.1	3308.8	3326.6	3321.2	3325.0	3287.2
5°	3430.6	3377.4	3376.7	3413.6	3376.7	3383.6	3325.0	3336.6	3319.6	3308.8	3268.0
7.5°	3486.9	3433.7	3428.3	3460.7	3412.1	3406.7	3342.0	3342.0	3311.1	3284.2	3245.6
10°	3542.4	3487.6	3480.7	3505.4	3445.2	3427.5	3348.9	3336.6	3295.7	3255.6	3214.0
12.5°	3584.0	3528.5	3523.1	3538.5	3470.7	3438.3	3348.9	3325.0	3264.9	3208.6	3176.3
15°	3623.3	3566.3	3551.6	3559.3	3481.5	3438.3	3338.1	3301.1	3224.0	3150.1	3112.3
17.5°	3651.0	3596.3	3581.7	3580.9	3486.9	3425.2	3315.0	3264.1	3171.6	3082.2	3044.5
20°	3678.8	3624.1	3605.6	3591.7	3485.3	3407.5	3281.1	3212.5	3104.6	3004.4	2972.8
22.5°	3692.7	3636.4	3616.4	3595.5	3475.3	3375.1	3239.5	3152.4	3029.0	2909.6	2883.4
25°	3695.0	3637.2	3615.6	3585.5	3455.3	3336.6	3185.5	3079.9	2941.9	2809.4	2787.0
27.5°	3688.8	3625.6	3604.0	3567.8	3425.2	3289.6	3121.5	2997.4	2849.5	2703.0	2679.1
30°	3667.2	3603.3	3582.4	3535.4	3382.8	3231.8	3051.4	2905.7	2746.9	2591.3	2570.4
32.5°	3624.1	3561.6	3544.7	3497.7	3336.6	3164.7	2969.7	2807.1	2633.6	2484.9	2454.1
35°	3560.9	3498.4	3487.6	3438.3	3271.8	3084.5	2880.3	2699.2	2513.4	2361.6	2331.5
37.5°	3478.4	3426.0	3409.8	3361.2	3195.5	2993.6	2777.8	2582.0	2390.9	2227.5	2209.0
40°	3374.3	3325.0	3312.7	3269.5	3106.9	2892.6	2666.8	2461.0	2264.5	2112.6	2086.4
42.5°	3255.6	3209.4	3202.5	3157.8	2997.4	2780.9	2546.6	2335.4	2132.7	1986.2	1960.0
45°	3120.8	3076.1	3074.5	3032.1	2878.0	2656.8	2420.2	2208.2	2003.9	1852.1	1838.2
47.5°	2972.0	2931.9	2931.9	2892.6	2744.6	2520.3	2289.9	2075.6	1874.5	1740.4	1715.7
50°	2810.2	2772.4	2760.8	2741.6	2597.4	2371.6	2152.7	1946.1	1746.5	1618.6	1594.7
52.5°	2637.5	2605.1	2612.8	2577.4	2437.9	2216.7	2014.0	1800.5	1617.8	1501.4	1477.5
55°	2455.6	2409.4	2416.3	2403.2	2271.4	2057.1	1858.3	1680.2	1491.4	1382.0	1359.6
57.5°	2266.8	2206.7	2231.3	2223.6	2094.1	1893.7	1715.7	1543.8	1365.8	1264.8	1243.2
60°	2073.3	2015.5	2040.9	2034.0	1912.2	1730.3	1568.5	1408.9	1240.9	1149.2	1127.6
62.5°	1874.5	1821.3	1844.4	1839.0	1727.2	1563.1	1422.0	1275.6	1115.3	1032.8	1012.8
65°	1674.1	1623.2	1644.0	1640.2	1536.9	1412.0	1271.7	1137.6	988.9	917.2	897.2
67.5°	1469.0	1422.0	1441.3	1441.3	1346.5	1227.0	1120.7	998.1	864.8	803.1	784.6
70°	1265.6	1221.6	1238.6	1237.1	1156.9	1059.8	968.1	858.6	739.1	688.3	672.9
72.5°	1060.6	1022.0	1037.4	1035.9	968.8	906.4	815.5	720.7	616.6	575.7	561.9
75°	861.7	825.5	840.1	838.6	783.9	725.3	664.4	585.8	496.4	467.8	454.0
77.5°	672.1	635.1	647.4	647.4	607.4	565.0	516.4	455.5	392.3	361.5	351.5
80°	490.2	472.5	466.3	467.1	440.1	412.4	387.7	329.1	282.9	262.1	255.1
82.5°	322.2	307.5	301.4	302.9	287.5	270.5	255.1	214.3	183.4	171.1	167.3
85°	171.1	160.3	154.9	158.8	155.7	146.4	138.7	111.0	91.7	87.1	84.8
87.5°	54.0	47.0	43.2	57.0	48.6	43.2	41.6	33.1	25.4	25.4	24.7
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°	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2
2.5°	3299.6	3299.6	3269.5	3262.6	3259.5	3263.4	3233.3	3227.9	3271.1	3256.4	3223.3
5°	3273.4	3271.8	3229.4	3221.7	3221.7	3217.1	3183.2	3175.5	3218.6	3206.3	3170.1
7.5°	3241.0	3236.4	3186.3	3180.9	3173.2	3170.1	3132.3	3126.9	3163.9	3156.2	3122.3
10°	3201.7	3197.1	3137.7	3133.9	3125.4	3119.2	3083.8	3079.9	3117.7	3105.3	3078.4
12.5°	3150.1	3141.6	3080.7	3076.8	3069.9	3067.6	3032.9	3031.4	3073.0	3060.6	3032.1
15°	3082.2	3075.3	3007.5	3009.0	3009.8	3009.8	2982.0	2980.5	3021.3	3015.9	2985.1
17.5°	3007.5	2998.2	2933.5	2938.1	2943.5	2949.7	2928.1	2931.9	2975.1	2968.2	2940.4
20°	2922.7	2913.4	2850.2	2863.3	2874.9	2887.2	2873.4	2884.1	2924.2	2921.1	2900.3
22.5°	2827.9	2818.6	2760.1	2780.1	2799.4	2822.5	2816.3	2828.6	2871.0	2870.3	2851.8
25°	2712.3	2714.6	2662.9	2687.6	2720.0	2752.3	2754.7	2774.7	2821.7	2817.1	2800.1
27.5°	2604.4	2607.4	2552.7	2594.3	2637.5	2679.1	2689.1	2716.9	2764.7	2760.8	2746.2
30°	2491.1	2494.9	2441.7	2498.8	2551.2	2602.0	2623.6	2661.4	2710.0	2710.0	2694.5
32.5°	2373.1	2380.1	2324.6	2400.9	2461.8	2521.1	2558.9	2598.2	2653.7	2652.1	2639.0
35°	2252.1	2259.8	2209.0	2306.1	2367.0	2439.4	2486.4	2538.8	2588.2	2588.9	2578.9
37.5°	2128.8	2138.1	2091.8	2198.2	2267.5	2353.1	2413.2	2465.6	2520.3	2523.4	2514.2
40°	2006.3	2016.3	1976.2	2078.7	2166.6	2262.1	2331.5	2393.2	2453.3	2454.8	2448.7
42.5°	1883.7	1894.5	1864.4	1964.6	2064.1	2166.6	2248.3	2318.4	2380.1	2383.9	2377.0
45°	1764.2	1773.5	1751.9	1861.4	1956.9	2068.7	2162.7	2242.1	2304.5	2309.9	2307.6
47.5°	1645.5	1654.0	1634.8	1735.0	1845.2	1963.9	2072.5	2160.4	2226.7	2232.9	2231.3
50°	1529.2	1536.1	1515.3	1620.1	1729.6	1856.0	1969.3	2071.0	2145.0	2151.2	2150.4
52.5°	1413.6	1420.5	1402.8	1513.0	1612.4	1745.7	1869.1	1979.3	2052.5	2061.8	2063.3
55°	1301.8	1304.9	1291.0	1396.6	1492.9	1632.4	1774.3	1881.4	1954.6	1962.3	1967.0
57.5°	1190.0	1190.8	1179.2	1280.2	1372.7	1515.3	1664.0	1776.6	1845.9	1853.7	1860.6
60°	1079.0	1078.3	1065.2	1163.1	1251.7	1392.7	1547.7	1659.4	1726.5	1733.4	1742.7
62.5°	968.8	966.5	955.0	1045.1	1128.4	1267.9	1423.6	1531.5	1595.5	1600.1	1612.4
65°	859.4	857.1	846.3	929.5	1005.1	1138.4	1291.0	1393.5	1451.3	1457.5	1455.2
67.5°	751.5	746.9	738.4	813.1	881.7	1005.1	1151.5	1249.4	1297.2	1302.6	1317.2
70°	643.6	638.2	618.9	698.3	758.4	868.6	1005.1	1092.2	1132.2	1137.6	1135.3
72.5°	537.2	531.8	511.0	584.2	635.1	731.4	853.2	925.7	960.4	965.0	965.0
75°	433.9	430.8	417.7	473.2	515.6	594.2	697.5	757.6	784.6	790.0	788.5
77.5°	334.5	332.2	319.1	366.9	400.0	458.6	541.8	588.9	608.9	615.1	628.2
80°	239.7	238.9	218.1	265.1	279.8	329.1	390.0	426.2	437.0	445.5	454.7
82.5°	153.4	154.1	133.3	173.4	179.6	211.2	249.0	271.3	279.0	285.9	292.9
85°	74.8	77.8	66.3	91.7	92.5	108.7	124.9	133.3	136.4	141.8	148.0
87.5°	19.3	22.4	12.3	26.2	23.1	30.1	34.7	37.0	36.2	40.1	42.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2
2.5°	3234.1	3258.7	3246.4	3286.5	3301.9	3277.2	3320.4	3321.2	3290.3	3326.6	3346.6
5°	3184.0	3209.4	3201.7	3243.3	3262.6	3241.0	3293.4	3303.4	3273.4	3314.2	3346.6
7.5°	3133.1	3163.2	3153.1	3195.5	3218.6	3201.7	3258.0	3274.1	3251.0	3295.7	3338.9
10°	3089.2	3114.6	3103.8	3148.5	3168.5	3154.7	3210.2	3240.2	3218.6	3273.4	3325.0
12.5°	3046.0	3066.8	3054.5	3091.5	3110.7	3093.0	3160.8	3188.6	3173.2	3230.2	3296.5
15°	2990.5	3013.6	2996.7	3029.8	3044.5	3029.0	3084.5	3132.3	3113.1	3175.5	3248.7
17.5°	2948.1	2961.2	2938.1	2964.3	2972.8	2952.0	3008.2	3055.2	3041.4	3109.2	3194.0
20°	2901.1	2911.9	2879.5	2894.2	2893.4	2867.2	2918.8	2965.1	2955.8	3030.6	3126.9
22.5°	2848.7	2854.1	2816.3	2819.4	2817.9	2774.7	2820.9	2868.0	2864.1	2939.6	3047.5
25°	2793.2	2794.0	2745.4	2743.9	2726.9	2676.0	2716.9	2770.1	2758.5	2840.2	2953.5
27.5°	2738.5	2730.8	2672.2	2658.3	2631.3	2570.4	2606.7	2654.5	2647.5	2727.7	2853.3
30°	2679.9	2669.9	2598.2	2572.8	2533.5	2463.3	2493.4	2538.1	2541.9	2612.1	2743.9
32.5°	2624.4	2599.0	2519.6	2482.6	2433.3	2351.6	2367.7	2413.2	2419.4	2490.3	2625.9
35°	2552.7	2535.8	2437.9	2374.7	2326.1	2236.7	2253.7	2285.3	2294.5	2363.9	2501.9
37.5°	2484.9	2457.9	2353.9	2276.8	2214.4	2120.3	2125.0	2157.3	2166.6	2236.7	2373.1
40°	2414.8	2376.2	2264.5	2174.3	2102.6	2003.9	1998.6	2032.5	2039.4	2108.0	2231.3
42.5°	2340.0	2293.7	2168.1	2069.5	1987.0	1886.8	1876.0	1905.3	1913.0	1980.1	2101.1
45°	2264.5	2209.0	2069.5	1961.6	1871.4	1768.9	1758.1	1780.4	1792.0	1855.2	1971.6
47.5°	2184.3	2119.6	1967.7	1847.5	1754.2	1651.7	1638.6	1661.0	1670.2	1732.6	1842.9
50°	2100.3	2021.7	1862.9	1730.3	1637.8	1536.9	1517.6	1543.8	1552.3	1610.9	1718.8
52.5°	2007.8	1920.7	1751.1	1612.4	1519.9	1423.6	1400.5	1425.9	1435.9	1492.9	1592.4
55°	1909.9	1815.9	1638.6	1503.7	1403.5	1309.5	1290.2	1300.3	1321.8	1375.8	1468.3
57.5°	1799.7	1706.4	1519.9	1382.7	1286.4	1196.2	1180.0	1189.3	1209.3	1261.7	1345.0
60°	1682.5	1583.9	1398.9	1261.7	1168.5	1082.9	1068.3	1076.7	1098.3	1146.1	1223.2
62.5°	1566.9	1455.9	1274.0	1137.6	1052.8	973.5	969.6	966.5	986.6	1032.8	1100.6
65°	1426.7	1320.3	1143.8	1014.3	937.2	865.6	850.1	857.1	876.3	918.7	989.6
67.5°	1276.4	1180.0	1010.5	891.0	822.4	758.4	745.3	748.4	768.4	805.4	867.1
70°	1116.8	1032.0	874.0	766.9	709.1	649.0	640.5	641.3	660.5	692.9	746.9
72.5°	949.6	873.3	736.1	644.3	596.6	553.4	545.7	536.4	554.2	581.9	628.2
75°	779.2	712.2	598.9	524.1	486.3	450.1	443.2	433.9	451.7	475.6	511.8
77.5°	607.4	553.4	465.5	407.7	378.4	351.5	345.3	335.3	353.0	370.7	399.2
80°	439.3	400.0	347.6	286.7	276.7	259.0	252.8	242.0	259.0	270.5	292.1
82.5°	283.6	257.4	227.4	185.0	183.4	170.3	167.3	154.9	170.3	177.3	193.5
85°	143.4	131.0	123.3	94.0	97.1	88.6	87.9	74.8	87.1	90.2	99.4
87.5°	40.8	43.2	38.5	23.1	29.3	27.7	27.7	20.0	27.7	27.7	31.6
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: P838160

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6LO-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2	3304.2
2.5°	3307.3	3320.4	3323.5	3322.7	3331.2	3377.4	3362.0	3377.4
5°	3315.0	3344.3	3352.0	3362.8	3376.7	3429.1	3412.1	3430.6
7.5°	3319.6	3363.5	3380.5	3401.3	3423.7	3482.2	3468.4	3486.9
10°	3319.6	3376.7	3401.3	3436.0	3466.1	3533.9	3520.8	3542.4
12.5°	3305.7	3379.0	3413.6	3462.2	3500.7	3574.0	3568.6	3584.0
15°	3277.2	3367.4	3415.2	3477.6	3525.4	3607.1	3604.8	3623.3
17.5°	3238.7	3347.4	3405.2	3483.8	3543.9	3635.6	3641.0	3651.0
20°	3190.1	3309.6	3385.1	3481.5	3557.0	3658.0	3664.9	3678.8
22.5°	3126.2	3264.1	3355.1	3471.5	3558.5	3667.2	3679.6	3692.7
25°	3050.6	3209.4	3315.8	3452.2	3550.8	3666.5	3683.4	3695.0
27.5°	2964.3	3138.5	3265.7	3421.4	3529.3	3654.1	3674.9	3688.8
30°	2864.1	3063.0	3208.6	3381.3	3500.0	3631.0	3653.3	3667.2
32.5°	2760.8	2979.7	3140.8	3329.6	3457.6	3594.0	3613.3	3624.1
35°	2648.3	2878.7	3059.1	3263.4	3402.9	3534.7	3549.3	3560.9
37.5°	2525.7	2769.3	2965.8	3188.6	3325.8	3452.2	3465.3	3478.4
40°	2399.3	2654.5	2861.0	3096.9	3234.1	3351.2	3365.1	3374.3
42.5°	2272.2	2527.3	2749.3	2989.0	3125.4	3237.9	3246.4	3255.6
45°	2143.5	2395.5	2623.6	2869.5	3004.4	3110.0	3113.1	3120.8
47.5°	2012.4	2259.1	2485.7	2733.1	2866.4	2962.8	2965.8	2972.0
50°	1880.6	2122.6	2338.5	2585.9	2716.1	2817.9	2804.0	2810.2
52.5°	1751.1	1979.3	2199.7	2427.1	2555.8	2646.0	2649.8	2637.5
55°	1624.0	1839.0	2041.7	2260.6	2383.2	2453.3	2451.0	2455.6
57.5°	1495.3	1697.2	1882.9	2083.3	2202.8	2269.1	2283.0	2266.8
60°	1364.2	1553.8	1720.3	1901.4	2017.0	2072.5	2088.7	2073.3
62.5°	1234.0	1408.2	1559.2	1717.2	1824.4	1893.0	1891.4	1874.5
65°	1103.7	1261.7	1396.6	1530.7	1624.0	1692.6	1689.5	1674.1
67.5°	983.5	1113.7	1234.7	1343.4	1424.3	1471.4	1487.5	1469.0
70°	850.9	963.4	1069.8	1156.9	1223.9	1266.3	1281.8	1265.6
72.5°	718.3	813.9	888.7	972.7	1024.3	1059.8	1076.0	1060.6
75°	587.3	665.9	726.8	792.3	828.6	858.6	877.1	861.7
77.5°	460.1	521.0	569.6	617.4	659.0	665.9	682.1	672.1
80°	339.1	383.1	418.5	450.1	480.2	483.3	496.4	490.2
82.5°	225.8	255.1	264.4	297.5	316.8	313.7	326.8	322.2
85°	119.5	137.2	153.4	163.4	174.2	164.2	175.7	171.1
87.5°	40.1	42.4	37.0	52.4	57.8	49.3	56.3	54.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)