

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: P838225

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3HI-40-120-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: P838225
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-LD4-3HI-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

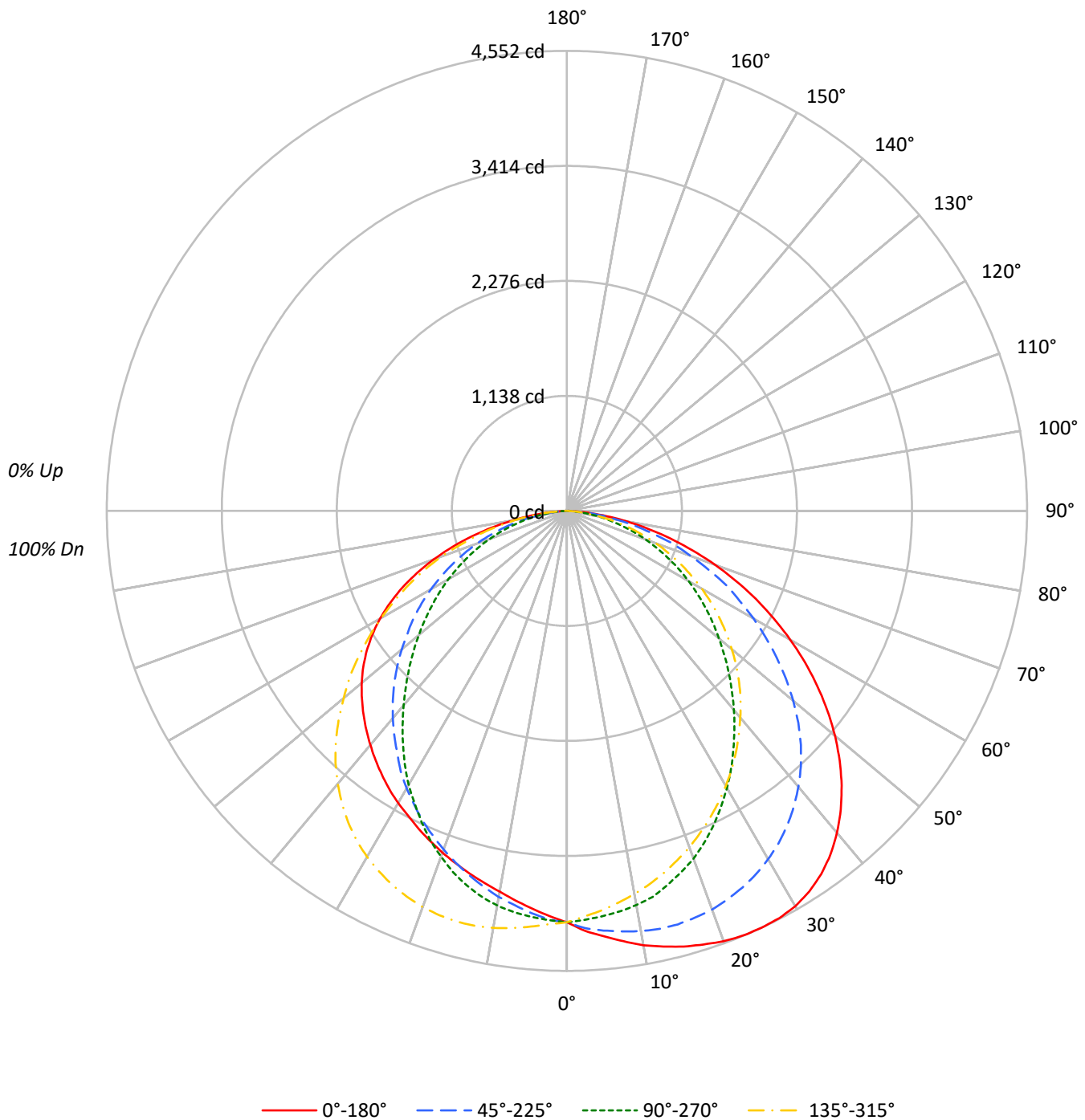
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11942.4 lumens
Efficiency: N/A
Efficacy: 90.5 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): 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
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°	5477	5477	5477	5477
5°	5708	5437	5335	5446
10°	5962	5410	5227	5417
15°	6218	5341	5175	5342
20°	6489	5244	5153	5214
25°	6758	5097	5152	5045
30°	7019	4920	5187	4865
35°	7205	4718	5239	4643
40°	7301	4515	5312	4413
45°	7315	4309	5415	4201
50°	7246	4112	5547	4003
55°	7096	3929	5671	3820
60°	6873	3738	5746	3641
65°	6566	3519	5716	3437
70°	6133	3261	5513	3201
75°	5518	2908	5059	2892
80°	4679	2435	4252	2472
85°	3254	1612	2697	1656

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.5	3.2
10°-20°	1119.1	9.4
20°-30°	1715.1	14.4
30°-40°	2085.5	17.5
40°-50°	2168.0	18.2
50°-60°	1958.3	16.4
60°-70°	1488.8	12.5
70°-80°	830.0	7.0
80°-90°	191.1	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°	3220.7	27.0
0°-40°	5306.2	44.4
0°-60°	9432.4	79.0
0°-90°	11942.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11942.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4070	4070	4070	4070	4070	
5°	4226	4026	3950	4032	4226	408
15°	4464	3834	3715	3835	4464	1266
25°	4552	3433	3470	3398	4552	2102
35°	4387	2872	3189	2827	4387	2740
45°	3844	2265	2846	2208	3844	2960
55°	3025	1675	2417	1628	3025	2700
65°	2062	1105	1796	1080	2062	2038
75°	1062	559	973	556	1062	1128
85°	211	104	175	107	211	265
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°	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5
2.5°	4160.7	4100.0	4100.9	4154.1	4113.2	4133.2	4076.2	4098.1	4091.4	4096.2	4049.6
5°	4226.2	4160.7	4159.8	4205.4	4159.8	4168.3	4096.2	4110.4	4089.5	4076.2	4025.9
7.5°	4295.6	4230.0	4223.4	4263.3	4203.5	4196.8	4117.0	4117.0	4079.1	4045.8	3998.4
10°	4363.9	4296.5	4288.0	4318.3	4244.3	4222.4	4125.6	4110.4	4060.1	4010.7	3959.4
12.5°	4415.2	4346.8	4340.2	4359.2	4275.6	4235.7	4125.6	4096.2	4022.1	3952.8	3912.9
15°	4463.6	4393.4	4375.3	4384.8	4288.9	4235.7	4112.3	4066.7	3971.8	3880.6	3834.1
17.5°	4497.8	4430.4	4412.3	4411.4	4295.6	4219.6	4083.8	4021.1	3907.2	3797.1	3750.5
20°	4532.0	4464.6	4441.8	4424.7	4293.7	4197.8	4042.0	3957.5	3824.6	3701.2	3662.2
22.5°	4549.1	4479.8	4455.1	4429.4	4281.3	4157.9	3990.8	3883.5	3731.5	3584.4	3552.1
25°	4551.9	4480.7	4454.1	4417.1	4256.6	4110.4	3924.3	3794.2	3624.3	3460.9	3433.4
27.5°	4544.3	4466.5	4439.9	4395.3	4219.6	4052.5	3845.5	3692.6	3510.3	3329.9	3300.5
30°	4517.7	4438.9	4413.3	4355.4	4167.4	3981.3	3759.1	3579.6	3384.0	3192.2	3166.6
32.5°	4464.6	4387.7	4366.8	4308.8	4110.4	3898.7	3658.4	3458.1	3244.5	3061.2	3023.2
35°	4386.7	4309.8	4296.5	4235.7	4030.6	3799.9	3548.3	3325.2	3096.3	2909.3	2872.2
37.5°	4285.1	4220.5	4200.6	4140.8	3936.6	3687.9	3422.0	3180.8	2945.4	2744.1	2721.3
40°	4156.9	4096.2	4081.0	4027.8	3827.4	3563.5	3285.3	3031.8	2789.6	2602.6	2570.3
42.5°	4010.7	3953.7	3945.2	3890.1	3692.6	3425.8	3137.2	2877.0	2627.3	2446.9	2414.6
45°	3844.5	3789.5	3787.6	3735.3	3545.4	3272.9	2981.4	2720.3	2468.7	2281.7	2264.6
47.5°	3661.3	3611.9	3611.9	3563.5	3381.2	3104.9	2821.0	2557.0	2309.2	2144.0	2113.6
50°	3461.9	3415.4	3401.1	3377.4	3199.8	2921.6	2652.0	2397.5	2151.6	1994.0	1964.5
52.5°	3249.2	3209.3	3218.8	3175.1	3003.3	2730.8	2481.1	2218.0	1993.0	1849.6	1820.2
55°	3025.1	2968.1	2976.7	2960.6	2798.2	2534.2	2289.3	2069.9	1837.3	1702.5	1674.9
57.5°	2792.5	2718.4	2748.8	2739.3	2579.8	2332.9	2113.6	1901.9	1682.5	1558.1	1531.5
60°	2554.2	2483.0	2514.3	2505.7	2355.7	2131.6	1932.2	1735.7	1528.7	1415.7	1389.1
62.5°	2309.2	2243.7	2272.2	2265.5	2127.8	1925.6	1751.8	1571.4	1373.9	1272.3	1247.6
65°	2062.3	1999.7	2025.3	2020.5	1893.3	1739.5	1566.7	1401.5	1218.2	1129.9	1105.2
67.5°	1809.8	1751.8	1775.6	1775.6	1658.8	1511.6	1380.6	1229.6	1065.3	989.4	966.6
70°	1559.1	1505.0	1525.9	1524.0	1425.2	1305.6	1192.6	1057.7	910.6	847.9	828.9
72.5°	1306.5	1259.0	1278.0	1276.1	1193.5	1116.6	1004.6	887.8	759.6	709.3	692.2
75°	1061.5	1016.9	1035.0	1033.1	965.6	893.5	818.5	721.6	611.5	576.3	559.3
77.5°	828.0	782.4	797.6	797.6	748.2	696.0	636.2	561.2	483.3	445.3	433.0
80°	603.9	582.0	574.4	575.4	542.2	508.0	477.6	405.4	348.5	322.8	314.3
82.5°	396.9	378.9	371.3	373.2	354.2	333.3	314.3	264.0	226.0	210.8	206.0
85°	210.8	197.5	190.9	195.6	191.8	180.4	170.9	136.7	113.0	107.3	104.4
87.5°	66.5	57.9	53.2	70.3	59.8	53.2	51.3	40.8	31.3	31.3	30.4
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°	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5
2.5°	4064.8	4064.8	4027.8	4019.2	4015.5	4020.2	3983.2	3976.5	4029.7	4011.7	3970.8
5°	4032.5	4030.6	3978.4	3968.9	3968.9	3963.2	3921.4	3912.0	3965.1	3949.9	3905.3
7.5°	3992.7	3987.0	3925.2	3918.6	3909.1	3905.3	3858.8	3852.1	3897.7	3888.2	3846.4
10°	3944.2	3938.5	3865.4	3860.7	3850.2	3842.6	3799.0	3794.2	3840.7	3825.6	3792.3
12.5°	3880.6	3870.2	3795.2	3790.4	3781.9	3779.0	3736.3	3734.4	3785.7	3770.5	3735.3
15°	3797.1	3788.5	3705.0	3706.9	3707.8	3707.8	3673.6	3671.7	3722.1	3715.4	3677.4
17.5°	3705.0	3693.6	3613.8	3619.5	3626.2	3633.8	3607.2	3611.9	3665.1	3656.5	3622.4
20°	3600.5	3589.1	3511.3	3527.4	3541.6	3556.8	3539.7	3553.0	3602.4	3598.6	3573.0
22.5°	3483.7	3472.3	3400.2	3424.9	3448.6	3477.1	3469.5	3484.7	3536.9	3536.0	3513.2
25°	3341.3	3344.2	3280.5	3310.9	3350.8	3390.7	3393.5	3418.2	3476.1	3470.4	3449.5
27.5°	3208.4	3212.2	3144.8	3196.0	3249.2	3300.5	3312.8	3347.0	3405.9	3401.1	3383.1
30°	3068.8	3073.5	3008.0	3078.3	3142.9	3205.5	3232.1	3278.6	3338.5	3338.5	3319.5
32.5°	2923.5	2932.1	2863.7	2957.7	3032.7	3105.8	3152.4	3200.8	3269.1	3267.2	3251.1
35°	2774.4	2783.9	2721.3	2840.9	2915.9	3005.2	3063.1	3127.7	3188.4	3189.4	3177.0
37.5°	2622.5	2633.9	2577.0	2708.0	2793.4	2898.8	2972.9	3037.5	3104.9	3108.7	3097.3
40°	2471.6	2483.9	2434.5	2560.8	2669.1	2786.8	2872.2	2948.2	3022.3	3024.2	3016.6
42.5°	2320.6	2333.9	2296.8	2420.3	2542.8	2669.1	2769.7	2856.1	2932.1	2936.8	2928.3
45°	2173.4	2184.8	2158.2	2293.1	2410.8	2548.5	2664.3	2762.1	2839.0	2845.7	2842.8
47.5°	2027.2	2037.6	2013.9	2137.3	2273.1	2419.3	2553.2	2661.5	2743.1	2750.7	2748.8
50°	1883.8	1892.4	1866.7	1995.9	2130.7	2286.4	2426.0	2551.3	2642.5	2650.1	2649.1
52.5°	1741.4	1749.9	1728.1	1863.9	1986.4	2150.6	2302.5	2438.3	2528.5	2539.9	2541.8
55°	1603.7	1607.5	1590.4	1720.5	1839.2	2011.0	2185.8	2317.7	2407.9	2417.4	2423.1
57.5°	1466.0	1467.0	1452.7	1577.1	1691.1	1866.7	2050.0	2188.6	2274.1	2283.6	2292.1
60°	1329.3	1328.4	1312.2	1432.8	1542.0	1715.8	1906.6	2044.3	2126.9	2135.4	2146.8
62.5°	1193.5	1190.7	1176.4	1287.5	1390.1	1561.9	1753.7	1886.7	1965.5	1971.2	1986.4
65°	1058.7	1055.8	1042.6	1145.1	1238.2	1402.4	1590.4	1716.7	1787.9	1795.5	1792.7
67.5°	925.8	920.1	909.6	1001.7	1086.2	1238.2	1418.6	1539.1	1598.0	1604.7	1622.7
70°	792.8	786.2	762.5	860.3	934.3	1070.1	1238.2	1345.4	1394.8	1401.5	1398.6
72.5°	661.8	655.2	629.5	719.7	782.4	901.1	1051.1	1140.4	1183.1	1188.8	1188.8
75°	534.6	530.8	514.6	583.0	635.2	732.1	859.3	933.4	966.6	973.2	971.3
77.5°	412.1	409.2	393.1	452.0	492.8	565.0	667.5	725.4	750.1	757.7	773.8
80°	295.3	294.3	268.7	326.6	344.7	405.4	480.4	525.1	538.4	548.8	560.2
82.5°	189.0	189.9	164.3	213.6	221.2	260.2	306.7	334.2	343.7	352.3	360.8
85°	92.1	95.9	81.7	113.0	113.9	133.9	153.8	164.3	168.1	174.7	182.3
87.5°	23.7	27.5	15.2	32.3	28.5	37.0	42.7	45.6	44.6	49.4	52.2
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°	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5
2.5°	3984.1	4014.5	3999.3	4048.7	4067.7	4037.3	4090.5	4091.4	4053.4	4098.1	4122.7
5°	3922.4	3953.7	3944.2	3995.5	4019.2	3992.7	4057.2	4069.6	4032.5	4082.9	4122.7
7.5°	3859.7	3896.8	3884.4	3936.6	3965.1	3944.2	4013.6	4033.5	4005.0	4060.1	4113.2
10°	3805.6	3836.9	3823.7	3878.7	3903.4	3886.3	3954.7	3991.7	3965.1	4032.5	4096.2
12.5°	3752.4	3778.1	3762.9	3808.5	3832.2	3810.4	3893.9	3928.1	3909.1	3979.4	4061.0
15°	3684.1	3712.6	3691.7	3732.5	3750.5	3731.5	3799.9	3858.8	3835.0	3912.0	4002.2
17.5°	3631.9	3648.0	3619.5	3651.8	3662.2	3636.6	3705.9	3763.8	3746.7	3830.3	3934.7
20°	3573.9	3587.2	3547.3	3565.4	3564.4	3532.2	3595.8	3652.7	3641.3	3733.4	3852.1
22.5°	3509.4	3516.0	3469.5	3473.3	3471.4	3418.2	3475.2	3533.1	3528.4	3621.4	3754.3
25°	3441.0	3442.0	3382.1	3380.2	3359.3	3296.7	3347.0	3412.5	3398.3	3498.9	3638.5
27.5°	3373.6	3364.1	3291.9	3274.8	3241.6	3166.6	3211.2	3270.1	3261.5	3360.3	3515.1
30°	3301.4	3289.1	3200.8	3169.4	3121.0	3034.6	3071.6	3126.7	3131.5	3217.9	3380.2
32.5°	3233.1	3201.7	3103.9	3058.4	2997.6	2896.9	2916.9	2972.9	2980.5	3067.8	3235.0
35°	3144.8	3123.9	3003.3	2925.4	2865.6	2755.5	2776.3	2815.3	2826.7	2912.1	3082.1
37.5°	3061.2	3028.0	2899.8	2804.8	2727.9	2612.1	2617.8	2657.7	2669.1	2755.5	2923.5
40°	2974.8	2927.3	2789.6	2678.5	2590.2	2468.7	2462.1	2503.8	2512.4	2596.9	2748.8
42.5°	2882.7	2825.7	2671.0	2549.4	2447.8	2324.4	2311.1	2347.2	2356.7	2439.3	2588.3
45°	2789.6	2721.3	2549.4	2416.5	2305.4	2179.1	2165.8	2193.4	2207.6	2285.5	2428.8
47.5°	2690.9	2611.1	2424.1	2276.0	2161.1	2034.8	2018.6	2046.2	2057.6	2134.5	2270.3
50°	2587.4	2490.5	2295.0	2131.6	2017.7	1893.3	1869.6	1901.9	1912.3	1984.5	2117.4
52.5°	2473.5	2366.2	2157.3	1986.4	1872.4	1753.7	1725.2	1756.6	1768.9	1839.2	1961.7
55°	2352.9	2237.0	2018.6	1852.5	1729.0	1613.2	1589.5	1601.8	1628.4	1694.9	1808.8
57.5°	2217.1	2102.2	1872.4	1703.4	1584.7	1473.6	1453.7	1465.1	1489.8	1554.3	1656.9
60°	2072.8	1951.2	1723.3	1554.3	1439.4	1334.1	1316.0	1326.5	1353.0	1411.9	1506.9
62.5°	1930.3	1793.6	1569.5	1401.5	1297.0	1199.2	1194.5	1190.7	1215.4	1272.3	1355.9
65°	1757.5	1626.5	1409.1	1249.5	1154.6	1066.3	1047.3	1055.8	1079.6	1131.8	1219.2
67.5°	1572.4	1453.7	1244.8	1097.6	1013.1	934.3	918.2	922.0	946.7	992.2	1068.2
70°	1375.8	1271.4	1076.7	944.8	873.5	799.5	789.0	790.0	813.7	853.6	920.1
72.5°	1169.8	1075.8	906.8	793.8	734.9	681.7	672.2	660.9	682.7	716.9	773.8
75°	959.9	877.3	737.8	645.7	599.1	554.5	546.0	534.6	556.4	585.8	630.5
77.5°	748.2	681.7	573.5	502.3	466.2	433.0	425.4	413.0	434.9	456.7	491.8
80°	541.2	492.8	428.2	353.2	340.9	319.0	311.4	298.1	319.0	333.3	359.9
82.5°	349.4	317.1	280.1	227.9	226.0	209.8	206.0	190.9	209.8	218.4	238.3
85°	176.6	161.4	151.9	115.8	119.6	109.2	108.2	92.1	107.3	111.1	122.5
87.5°	50.3	53.2	47.5	28.5	36.1	34.2	34.2	24.7	34.2	34.2	38.9
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: P838225

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5	4070.5
2.5°	4074.3	4090.5	4094.3	4093.3	4103.8	4160.7	4141.7	4160.7
5°	4083.8	4119.9	4129.4	4142.7	4159.8	4224.3	4203.5	4226.2
7.5°	4089.5	4143.6	4164.5	4190.2	4217.7	4289.9	4272.8	4295.6
10°	4089.5	4159.8	4190.2	4232.9	4269.9	4353.5	4337.3	4363.9
12.5°	4072.4	4162.6	4205.4	4265.2	4312.6	4402.8	4396.2	4415.2
15°	4037.3	4148.4	4207.3	4284.2	4343.0	4443.7	4440.8	4463.6
17.5°	3989.8	4123.7	4194.9	4291.8	4365.8	4478.8	4485.5	4497.8
20°	3930.0	4077.2	4170.2	4288.9	4382.0	4506.3	4514.9	4532.0
22.5°	3851.2	4021.1	4133.2	4276.6	4383.9	4517.7	4532.9	4549.1
25°	3758.1	3953.7	4084.8	4252.8	4374.4	4516.8	4537.7	4551.9
27.5°	3651.8	3866.4	4023.0	4214.8	4347.8	4501.6	4527.2	4544.3
30°	3528.4	3773.3	3952.8	4165.5	4311.7	4473.1	4500.6	4517.7
32.5°	3401.1	3670.8	3869.2	4101.9	4259.5	4427.5	4451.3	4464.6
35°	3262.5	3546.4	3768.6	4020.2	4192.1	4354.4	4372.5	4386.7
37.5°	3111.5	3411.6	3653.7	3928.1	4097.1	4252.8	4269.0	4285.1
40°	2955.8	3270.1	3524.6	3815.1	3984.1	4128.4	4145.5	4156.9
42.5°	2799.1	3113.4	3386.9	3682.2	3850.2	3988.9	3999.3	4010.7
45°	2640.6	2951.1	3232.1	3535.0	3701.2	3831.2	3835.0	3844.5
47.5°	2479.2	2783.0	3062.1	3366.9	3531.2	3649.9	3653.7	3661.3
50°	2316.8	2614.9	2880.8	3185.6	3346.1	3471.4	3454.3	3461.9
52.5°	2157.3	2438.3	2709.9	2990.0	3148.6	3259.6	3264.4	3249.2
55°	2000.6	2265.5	2515.2	2784.9	2935.9	3022.3	3019.4	3025.1
57.5°	1842.0	2090.8	2319.6	2566.5	2713.7	2795.3	2812.4	2792.5
60°	1680.6	1914.2	2119.3	2342.4	2484.9	2553.2	2573.2	2554.2
62.5°	1520.2	1734.7	1920.8	2115.5	2247.5	2332.0	2330.1	2309.2
65°	1359.7	1554.3	1720.5	1885.7	2000.6	2085.1	2081.3	2062.3
67.5°	1211.6	1372.0	1521.1	1655.0	1754.7	1812.6	1832.5	1809.8
70°	1048.3	1186.9	1317.9	1425.2	1507.8	1560.0	1579.0	1559.1
72.5°	884.9	1002.7	1094.8	1198.3	1261.9	1305.6	1325.5	1306.5
75°	723.5	820.4	895.4	976.1	1020.7	1057.7	1080.5	1061.5
77.5°	566.9	641.9	701.7	760.6	811.8	820.4	840.3	828.0
80°	417.8	471.9	515.6	554.5	591.5	595.3	611.5	603.9
82.5°	278.2	314.3	325.7	366.5	390.2	386.4	402.6	396.9
85°	147.2	169.0	189.0	201.3	214.6	202.2	216.5	210.8
87.5°	49.4	52.2	45.6	64.6	71.2	60.8	69.3	66.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)