

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: P838176

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5STD-27-120-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: P838176
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-LD4-5STD-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

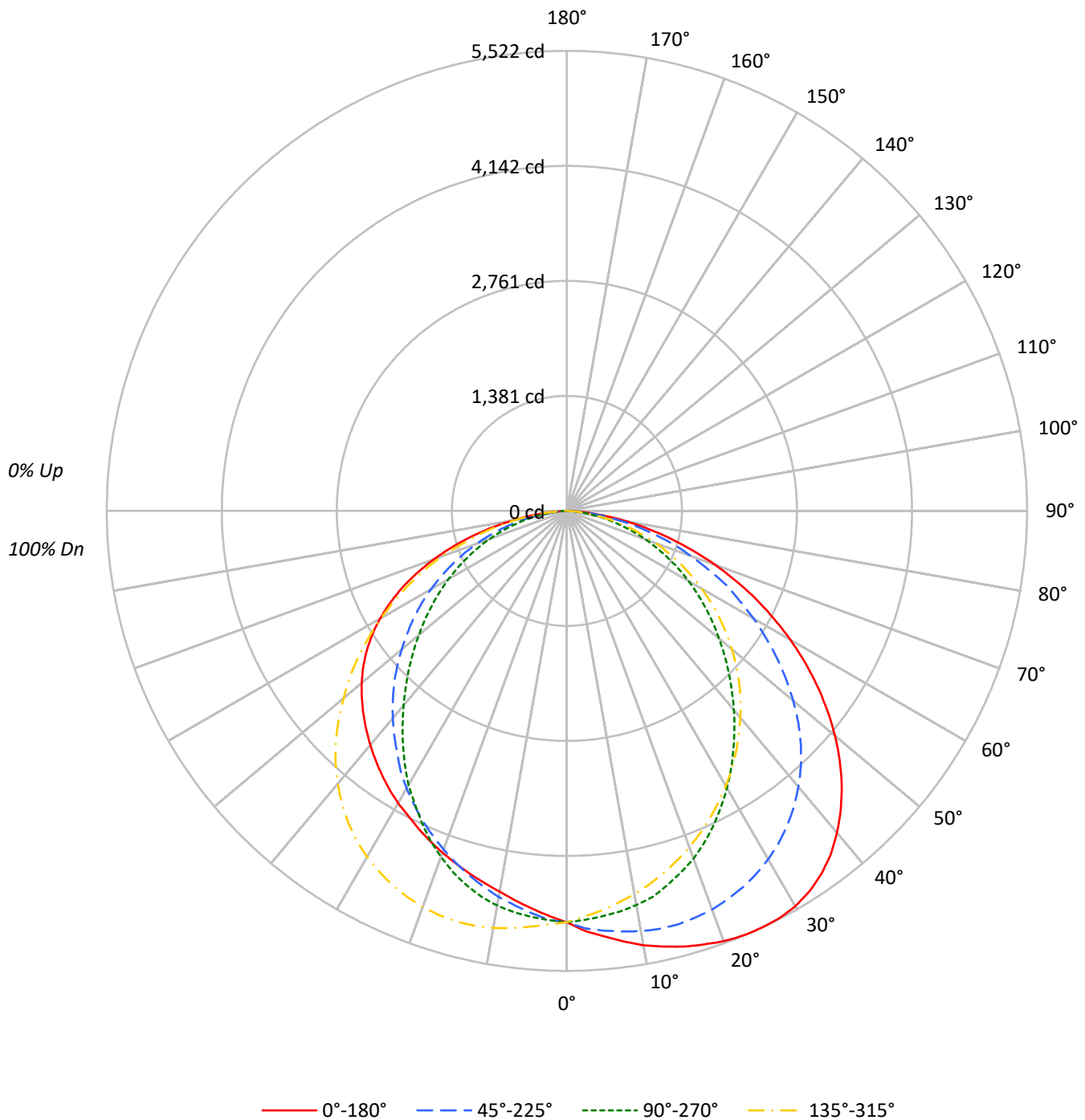
Lumens per Lamp: N/A
Luminaire Lumens: 14488.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	6644	6644	6644	6644
5°	6925	6597	6472	6608
10°	7233	6563	6341	6572
15°	7543	6479	6279	6481
20°	7872	6362	6251	6325
25°	8198	6184	6251	6120
30°	8515	5969	6293	5902
35°	8741	5724	6355	5633
40°	8858	5477	6444	5354
45°	8875	5228	6569	5096
50°	8791	4989	6730	4856
55°	8609	4767	6880	4634
60°	8339	4535	6972	4417
65°	7966	4269	6935	4170
70°	7441	3956	6688	3884
75°	6695	3527	6138	3509
80°	5676	2954	5159	2999
85°	3947	1956	3273	2010

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.9	3.2
10°-20°	1357.7	9.4
20°-30°	2080.7	14.4
30°-40°	2530.1	17.5
40°-50°	2630.1	18.2
50°-60°	2375.8	16.4
60°-70°	1806.2	12.5
70°-80°	1007.0	7.0
80°-90°	231.8	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°	3907.3	27.0
0°-40°	6437.4	44.4
0°-60°	11443.3	79.0
0°-90°	14488.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14488.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4938	4938	4938	4938	4938	
5°	5127	4884	4792	4892	5127	494
15°	5415	4652	4508	4653	5415	1535
25°	5522	4165	4210	4123	5522	2551
35°	5322	3485	3869	3429	5322	3324
45°	4664	2747	3452	2678	4664	3591
55°	3670	2032	2933	1976	3670	3276
65°	2502	1341	2178	1310	2502	2472
75°	1288	678	1181	675	1288	1368
85°	256	127	212	130	256	322
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°	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3
2.5°	5047.7	4974.0	4975.2	5039.7	4990.1	5014.3	4945.2	4971.7	4963.7	4969.4	4913.0
5°	5127.2	5047.7	5046.6	5101.9	5046.6	5057.0	4969.4	4986.7	4961.4	4945.2	4884.2
7.5°	5211.3	5131.8	5123.8	5172.2	5099.6	5091.5	4994.8	4994.8	4948.7	4908.4	4850.8
10°	5294.3	5212.5	5202.1	5239.0	5149.1	5122.6	5005.1	4986.7	4925.6	4865.7	4803.5
12.5°	5356.5	5273.5	5265.5	5288.5	5187.1	5138.7	5005.1	4969.4	4879.6	4795.5	4747.1
15°	5415.2	5330.0	5308.1	5319.6	5203.3	5138.7	4989.0	4933.7	4818.5	4707.9	4651.5
17.5°	5456.7	5374.9	5353.0	5351.9	5211.3	5119.2	4954.4	4878.4	4740.2	4606.6	4550.1
20°	5498.1	5416.4	5388.7	5368.0	5209.0	5092.7	4903.8	4801.2	4640.0	4490.2	4443.0
22.5°	5518.9	5434.8	5404.8	5373.7	5194.0	5044.3	4841.6	4711.4	4527.1	4348.5	4309.4
25°	5522.3	5435.9	5403.7	5358.8	5164.1	4986.7	4760.9	4603.1	4396.9	4198.8	4165.4
27.5°	5513.1	5418.7	5386.4	5332.3	5119.2	4916.4	4665.3	4479.8	4258.7	4039.8	4004.1
30°	5480.9	5385.3	5354.2	5283.9	5055.8	4830.0	4560.5	4342.8	4105.5	3872.8	3841.7
32.5°	5416.4	5323.1	5297.7	5227.4	4986.7	4729.8	4438.4	4195.3	3936.1	3713.8	3667.7
35°	5321.9	5228.6	5212.5	5138.7	4889.9	4610.0	4304.8	4034.0	3756.4	3529.5	3484.6
37.5°	5198.6	5120.3	5096.1	5023.6	4775.9	4474.1	4151.5	3859.0	3573.3	3329.1	3301.4
40°	5043.1	4969.4	4951.0	4886.5	4643.4	4323.2	3985.7	3678.1	3384.4	3157.4	3118.3
42.5°	4865.7	4796.6	4786.3	4719.4	4479.8	4156.2	3806.0	3490.3	3187.4	2968.5	2929.4
45°	4664.2	4597.3	4595.0	4531.7	4301.3	3970.7	3617.1	3300.3	2995.0	2768.1	2747.3
47.5°	4441.8	4381.9	4381.9	4323.2	4102.0	3766.8	3422.4	3102.1	2801.5	2601.1	2564.2
50°	4199.9	4143.5	4126.2	4097.4	3882.0	3544.5	3217.3	2908.6	2610.3	2419.0	2383.3
52.5°	3941.9	3893.5	3905.0	3852.0	3643.5	3312.9	3010.0	2690.9	2417.9	2244.0	2208.2
55°	3670.0	3600.9	3611.3	3591.7	3394.7	3074.5	2777.3	2511.2	2229.0	2065.4	2032.0
57.5°	3387.8	3298.0	3334.8	3323.3	3129.8	2830.3	2564.2	2307.3	2041.2	1890.3	1858.1
60°	3098.7	3012.3	3050.3	3039.9	2857.9	2586.1	2344.2	2105.7	1854.6	1717.5	1685.3
62.5°	2801.5	2722.0	2756.6	2748.5	2581.5	2336.1	2125.3	1906.4	1666.8	1543.6	1513.6
65°	2502.0	2426.0	2457.1	2451.3	2296.9	2110.3	1900.7	1700.2	1477.9	1370.8	1340.8
67.5°	2195.6	2125.3	2154.1	2154.1	2012.4	1833.9	1674.9	1491.7	1292.5	1200.3	1172.7
70°	1891.5	1825.8	1851.1	1848.8	1729.0	1583.9	1446.8	1283.2	1104.7	1028.7	1005.6
72.5°	1585.1	1527.5	1550.5	1548.2	1448.0	1354.7	1218.7	1077.1	921.5	860.5	839.8
75°	1287.9	1233.7	1255.6	1253.3	1171.5	1084.0	993.0	875.5	741.8	699.2	678.5
77.5°	1004.5	949.2	967.6	967.6	907.7	844.4	771.8	680.8	586.3	540.3	525.3
80°	732.6	706.1	696.9	698.1	657.8	616.3	579.4	491.9	422.8	391.7	381.3
82.5°	481.5	459.6	450.4	452.7	429.7	404.3	381.3	320.2	274.2	255.7	250.0
85°	255.7	239.6	231.5	237.3	232.7	218.9	207.3	165.9	137.1	130.2	126.7
87.5°	80.6	70.3	64.5	85.2	72.6	64.5	62.2	49.5	38.0	38.0	36.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3
2.5°	4931.4	4931.4	4886.5	4876.1	4871.5	4877.3	4832.3	4824.3	4888.8	4866.9	4817.4
5°	4892.2	4889.9	4826.6	4815.1	4815.1	4808.1	4757.5	4745.9	4810.4	4792.0	4737.9
7.5°	4843.9	4836.9	4762.1	4754.0	4742.5	4737.9	4681.4	4673.4	4728.7	4717.1	4666.5
10°	4785.1	4778.2	4689.5	4683.7	4671.1	4661.9	4608.9	4603.1	4659.5	4641.1	4600.8
12.5°	4707.9	4695.3	4604.3	4598.5	4588.1	4584.7	4532.8	4530.5	4592.7	4574.3	4531.7
15°	4606.6	4596.2	4494.8	4497.1	4498.3	4498.3	4456.8	4454.5	4515.6	4507.5	4461.4
17.5°	4494.8	4481.0	4384.2	4391.1	4399.2	4408.4	4376.2	4381.9	4446.4	4436.1	4394.6
20°	4368.1	4354.3	4259.8	4279.4	4296.7	4315.1	4294.4	4310.5	4370.4	4365.8	4334.7
22.5°	4226.4	4212.6	4125.1	4155.0	4183.8	4218.4	4209.1	4227.6	4290.9	4289.8	4262.1
25°	4053.6	4057.1	3979.9	4016.8	4065.2	4113.5	4117.0	4146.9	4217.2	4210.3	4185.0
27.5°	3892.4	3897.0	3815.2	3877.4	3941.9	4004.1	4019.1	4060.5	4132.0	4126.2	4104.3
30°	3723.0	3728.8	3649.3	3734.5	3812.9	3888.9	3921.2	3977.6	4050.2	4050.2	4027.1
32.5°	3546.8	3557.2	3474.2	3588.3	3679.3	3768.0	3824.4	3883.1	3966.1	3963.8	3944.2
35°	3365.9	3377.5	3301.4	3446.6	3537.6	3645.9	3716.1	3794.4	3868.2	3869.3	3854.3
37.5°	3181.6	3195.4	3126.3	3285.3	3389.0	3516.8	3606.7	3685.0	3766.8	3771.4	3757.6
40°	2998.5	3013.4	2953.5	3106.7	3238.1	3380.9	3484.6	3576.7	3666.6	3668.9	3659.7
42.5°	2815.3	2831.4	2786.5	2936.3	3084.9	3238.1	3360.2	3465.0	3557.2	3562.9	3552.5
45°	2636.8	2650.6	2618.3	2781.9	2924.7	3091.8	3232.3	3351.0	3444.3	3452.3	3448.9
47.5°	2459.4	2472.0	2443.2	2593.0	2757.7	2935.1	3097.5	3228.9	3327.9	3337.1	3334.8
50°	2285.4	2295.8	2264.7	2421.4	2584.9	2773.8	2943.2	3095.2	3205.8	3215.0	3213.9
52.5°	2112.6	2123.0	2096.5	2261.2	2409.8	2609.1	2793.4	2958.1	3067.6	3081.4	3083.7
55°	1945.6	1950.2	1929.5	2087.3	2231.3	2439.8	2651.7	2811.9	2921.3	2932.8	2939.7
57.5°	1778.6	1779.7	1762.4	1913.4	2051.6	2264.7	2487.0	2655.2	2758.9	2770.4	2780.8
60°	1612.7	1611.5	1592.0	1738.3	1870.7	2081.5	2313.1	2480.1	2580.3	2590.7	2604.5
62.5°	1448.0	1444.5	1427.2	1562.0	1686.4	1894.9	2127.6	2288.9	2384.5	2391.4	2409.8
65°	1284.4	1280.9	1264.8	1389.2	1502.1	1701.4	1929.5	2082.7	2169.1	2178.3	2174.8
67.5°	1123.1	1116.2	1103.5	1215.3	1317.8	1502.1	1721.0	1867.3	1938.7	1946.8	1968.6
70°	961.9	953.8	925.0	1043.6	1133.5	1298.2	1502.1	1632.3	1692.2	1700.2	1696.8
72.5°	802.9	794.8	763.7	873.2	949.2	1093.2	1275.2	1383.5	1435.3	1442.2	1442.2
75°	648.5	643.9	624.3	707.3	770.6	888.1	1042.5	1132.3	1172.7	1180.7	1178.4
77.5°	499.9	496.5	476.9	548.3	597.9	685.4	809.8	880.1	910.0	919.2	938.8
80°	358.2	357.1	326.0	396.3	418.1	491.9	582.9	637.0	653.1	665.8	679.6
82.5°	229.2	230.4	199.3	259.2	268.4	315.6	372.1	405.5	417.0	427.4	437.7
85°	111.7	116.3	99.1	137.1	138.2	162.4	186.6	199.3	203.9	212.0	221.2
87.5°	28.8	33.4	18.4	39.2	34.6	44.9	51.8	55.3	54.1	59.9	63.4
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°	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3
2.5°	4833.5	4870.3	4851.9	4911.8	4934.9	4898.0	4962.5	4963.7	4917.6	4971.7	5001.7
5°	4758.6	4796.6	4785.1	4847.3	4876.1	4843.9	4922.2	4937.2	4892.2	4953.3	5001.7
7.5°	4682.6	4727.5	4712.5	4775.9	4810.4	4785.1	4869.2	4893.4	4858.8	4925.6	4990.1
10°	4616.9	4654.9	4638.8	4705.6	4735.6	4714.8	4797.8	4842.7	4810.4	4892.2	4969.4
12.5°	4552.4	4583.5	4565.1	4620.4	4649.2	4622.7	4724.1	4765.5	4742.5	4827.7	4926.8
15°	4469.5	4504.0	4478.7	4528.2	4550.1	4527.1	4610.0	4681.4	4652.6	4745.9	4855.4
17.5°	4406.1	4425.7	4391.1	4430.3	4443.0	4411.9	4496.0	4566.2	4545.5	4646.9	4773.6
20°	4335.9	4352.0	4303.6	4325.5	4324.3	4285.2	4362.3	4431.5	4417.6	4529.4	4673.4
22.5°	4257.5	4265.6	4209.1	4213.8	4211.4	4146.9	4216.1	4286.3	4280.6	4393.5	4554.7
25°	4174.6	4175.7	4103.2	4100.9	4075.5	3999.5	4060.5	4140.0	4122.7	4244.9	4414.2
27.5°	4092.8	4081.3	3993.7	3973.0	3932.7	3841.7	3895.8	3967.2	3956.9	4076.7	4264.4
30°	4005.3	3990.3	3883.1	3845.1	3786.4	3681.6	3726.5	3793.3	3799.1	3903.9	4100.9
32.5°	3922.3	3884.3	3765.7	3710.4	3636.6	3514.5	3538.7	3606.7	3615.9	3721.9	3924.6
35°	3815.2	3789.8	3643.5	3549.1	3476.5	3342.9	3368.2	3415.5	3429.3	3533.0	3739.2
37.5°	3713.8	3673.5	3518.0	3402.8	3309.5	3169.0	3175.9	3224.2	3238.1	3342.9	3546.8
40°	3609.0	3551.4	3384.4	3249.6	3142.5	2995.0	2986.9	3037.6	3048.0	3150.5	3334.8
42.5°	3497.3	3428.1	3240.4	3092.9	2969.7	2819.9	2803.8	2847.6	2859.1	2959.3	3140.2
45°	3384.4	3301.4	3092.9	2931.7	2796.9	2643.7	2627.5	2661.0	2678.2	2772.7	2946.6
47.5°	3264.6	3167.8	2940.9	2761.2	2621.8	2468.6	2449.0	2482.4	2496.2	2589.5	2754.3
50°	3139.0	3021.5	2784.2	2586.1	2447.8	2296.9	2268.1	2307.3	2320.0	2407.5	2568.8
52.5°	3000.8	2870.6	2617.2	2409.8	2271.6	2127.6	2093.1	2131.1	2146.0	2231.3	2379.9
55°	2854.5	2713.9	2449.0	2247.4	2097.7	1957.1	1928.3	1943.3	1975.6	2056.2	2194.4
57.5°	2689.8	2550.4	2271.6	2066.6	1922.6	1787.8	1763.6	1777.4	1807.4	1885.7	2010.1
60°	2514.7	2367.2	2090.7	1885.7	1746.3	1618.5	1596.6	1609.2	1641.5	1712.9	1828.1
62.5°	2341.9	2176.0	1904.1	1700.2	1573.5	1454.9	1449.1	1444.5	1474.5	1543.6	1645.0
65°	2132.2	1973.3	1709.5	1515.9	1400.7	1293.6	1270.6	1280.9	1309.7	1373.1	1479.1
67.5°	1907.6	1763.6	1510.2	1331.6	1229.1	1133.5	1113.9	1118.5	1148.5	1203.8	1295.9
70°	1669.1	1542.4	1306.3	1146.2	1059.8	969.9	957.3	958.4	987.2	1035.6	1116.2
72.5°	1419.2	1305.1	1100.1	963.0	891.6	827.1	815.6	801.7	828.2	869.7	938.8
75°	1164.6	1064.4	895.0	783.3	726.9	672.7	662.4	648.5	675.0	710.7	764.9
77.5°	907.7	827.1	695.8	609.4	565.6	525.3	516.1	501.1	527.6	554.1	596.7
80°	656.6	597.9	519.5	428.5	413.5	387.0	377.8	361.7	387.0	404.3	436.6
82.5°	423.9	384.7	339.8	276.5	274.2	254.6	250.0	231.5	254.6	264.9	289.1
85°	214.3	195.8	184.3	140.5	145.1	132.5	131.3	111.7	130.2	134.8	148.6
87.5°	61.1	64.5	57.6	34.6	43.8	41.5	41.5	30.0	41.5	41.5	47.2
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: P838176

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5STD-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3	4938.3
2.5°	4942.9	4962.5	4967.1	4966.0	4978.6	5047.7	5024.7	5047.7
5°	4954.4	4998.2	5009.7	5025.9	5046.6	5124.9	5099.6	5127.2
7.5°	4961.4	5027.0	5052.4	5083.5	5116.9	5204.4	5183.7	5211.3
10°	4961.4	5046.6	5083.5	5135.3	5180.2	5281.6	5262.0	5294.3
12.5°	4940.6	5050.0	5101.9	5174.5	5232.1	5341.5	5333.4	5356.5
15°	4898.0	5032.8	5104.2	5197.5	5268.9	5391.0	5387.6	5415.2
17.5°	4840.4	5002.8	5089.2	5206.7	5296.6	5433.6	5441.7	5456.7
20°	4767.8	4946.4	5059.3	5203.3	5316.1	5467.0	5477.4	5498.1
22.5°	4672.2	4878.4	5014.3	5188.3	5318.4	5480.9	5499.3	5518.9
25°	4559.3	4796.6	4955.6	5159.5	5306.9	5479.7	5505.1	5522.3
27.5°	4430.3	4690.6	4880.7	5113.4	5274.7	5461.3	5492.4	5513.1
30°	4280.6	4577.8	4795.5	5053.5	5230.9	5426.7	5460.1	5480.9
32.5°	4126.2	4453.4	4694.1	4976.3	5167.5	5371.4	5400.2	5416.4
35°	3958.0	4302.4	4572.0	4877.3	5085.8	5282.7	5304.6	5321.9
37.5°	3774.9	4138.9	4432.6	4765.5	4970.6	5159.5	5179.1	5198.6
40°	3585.9	3967.2	4276.0	4628.4	4833.5	5008.6	5029.3	5043.1
42.5°	3395.9	3777.2	4108.9	4467.2	4671.1	4839.2	4851.9	4865.7
45°	3203.5	3580.2	3921.2	4288.6	4490.2	4648.0	4652.6	4664.2
47.5°	3007.7	3376.3	3715.0	4084.7	4284.0	4428.0	4432.6	4441.8
50°	2810.7	3172.4	3494.9	3864.7	4059.4	4211.4	4190.7	4199.9
52.5°	2617.2	2958.1	3287.6	3627.4	3819.8	3954.6	3960.3	3941.9
55°	2427.1	2748.5	3051.5	3378.6	3561.8	3666.6	3663.1	3670.0
57.5°	2234.7	2536.5	2814.2	3113.7	3292.2	3391.3	3412.0	3387.8
60°	2038.9	2322.3	2571.1	2841.8	3014.6	3097.5	3121.7	3098.7
62.5°	1844.2	2104.6	2330.3	2566.5	2726.6	2829.1	2826.8	2801.5
65°	1649.6	1885.7	2087.3	2287.7	2427.1	2529.6	2525.0	2502.0
67.5°	1469.9	1664.5	1845.4	2007.8	2128.8	2199.0	2223.2	2195.6
70°	1271.7	1439.9	1598.9	1729.0	1829.3	1892.6	1915.7	1891.5
72.5°	1073.6	1216.4	1328.2	1453.7	1530.9	1583.9	1608.1	1585.1
75°	877.8	995.3	1086.3	1184.2	1238.3	1283.2	1310.9	1287.9
77.5°	687.7	778.7	851.3	922.7	984.9	995.3	1019.5	1004.5
80°	506.8	572.5	625.5	672.7	717.7	722.3	741.8	732.6
82.5°	337.5	381.3	395.1	444.6	473.4	468.8	488.4	481.5
85°	178.5	205.0	229.2	244.2	260.3	245.4	262.6	255.7
87.5°	59.9	63.4	55.3	78.3	86.4	73.7	84.1	80.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)