

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: P838231

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5HI-40-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838231
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-LD4-5HI-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

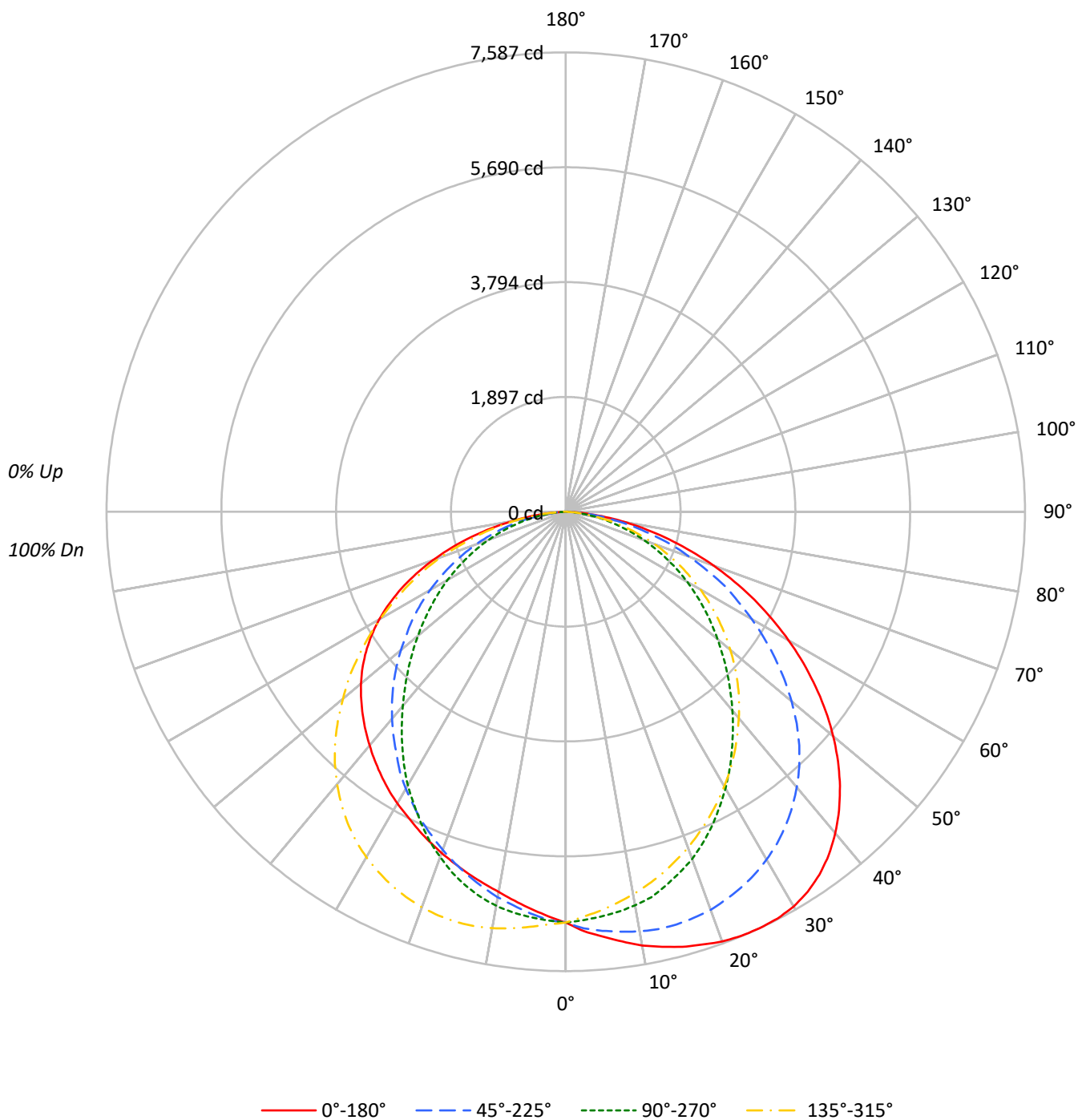
Lumens per Lamp: N/A
Luminaire Lumens: 19904.2 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	9128	9128	9128	9128
5°	9514	9063	8892	9078
10°	9937	9016	8711	9029
15°	10363	8901	8626	8903
20°	10815	8740	8588	8690
25°	11263	8495	8587	8409
30°	11698	8200	8645	8109
35°	12009	7863	8731	7738
40°	12169	7524	8853	7355
45°	12192	7182	9025	7001
50°	12078	6854	9245	6671
55°	11827	6549	9451	6366
60°	11455	6230	9577	6068
65°	10943	5865	9528	5728
70°	10222	5435	9189	5335
75°	9198	4846	8433	4821
80°	7799	4059	7087	4120
85°	5423	2688	4495	2760

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.1	3.2
10°-20°	1865.2	9.4
20°-30°	2858.5	14.4
30°-40°	3475.8	17.5
40°-50°	3613.3	18.2
50°-60°	3263.9	16.4
60°-70°	2481.4	12.5
70°-80°	1383.4	7.0
80°-90°	318.5	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°	5367.9	27.0
0°-40°	8843.7	44.4
0°-60°	15720.9	79.0
0°-90°	19904.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19904.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6784	6784	6784	6784	6784	
5°	7044	6710	6583	6721	7044	679
15°	7440	6390	6192	6392	7440	2109
25°	7587	5722	5784	5664	7587	3504
35°	7311	4787	5316	4711	7311	4566
45°	6408	3774	4743	3679	6408	4933
55°	5042	2792	4029	2714	5042	4501
65°	3437	1842	2993	1799	3437	3397
75°	1769	932	1622	927	1769	1879
85°	351	174	291	179	351	442
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°	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3
2.5°	6934.6	6833.3	6834.9	6923.6	6855.5	6888.7	6793.8	6830.2	6819.1	6827.0	6749.5
5°	7043.8	6934.6	6933.0	7009.0	6933.0	6947.3	6827.0	6850.8	6815.9	6793.8	6709.9
7.5°	7159.4	7050.2	7039.1	7105.5	7005.8	6994.8	6861.8	6861.8	6798.5	6743.1	6664.0
10°	7273.3	7160.9	7146.7	7197.3	7073.9	7037.5	6876.1	6850.8	6766.9	6684.6	6599.1
12.5°	7358.7	7244.8	7233.7	7265.4	7126.1	7059.7	6876.1	6827.0	6703.6	6588.1	6521.6
15°	7439.5	7322.4	7292.3	7308.1	7148.3	7059.7	6853.9	6778.0	6619.7	6467.8	6390.2
17.5°	7496.4	7384.1	7354.0	7352.4	7159.4	7032.7	6806.4	6702.0	6512.1	6328.5	6251.0
20°	7553.4	7441.0	7403.1	7374.6	7156.2	6996.3	6736.8	6596.0	6374.4	6168.7	6103.8
22.5°	7581.9	7466.4	7425.2	7382.5	7135.6	6929.9	6651.4	6472.5	6219.3	5974.0	5920.2
25°	7586.6	7467.9	7423.6	7361.9	7094.5	6850.8	6540.6	6323.8	6040.5	5768.3	5722.4
27.5°	7574.0	7444.2	7399.9	7325.5	7032.7	6754.2	6409.2	6154.4	5850.6	5549.9	5500.9
30°	7529.7	7398.3	7355.6	7259.0	6945.7	6635.5	6265.2	5966.1	5640.1	5320.5	5277.7
32.5°	7441.0	7312.9	7278.0	7181.5	6850.8	6497.9	6097.5	5763.6	5407.5	5102.1	5038.8
35°	7311.3	7183.1	7160.9	7059.7	6717.8	6333.3	5913.9	5542.0	5160.6	4848.9	4787.1
37.5°	7141.9	7034.3	7001.1	6901.4	6561.2	6146.5	5703.4	5301.5	4909.0	4573.5	4535.5
40°	6928.3	6827.0	6801.7	6713.1	6379.2	5939.2	5475.5	5053.0	4649.5	4337.7	4283.9
42.5°	6684.6	6589.6	6575.4	6483.6	6154.4	5709.8	5228.7	4795.1	4378.9	4078.2	4024.4
45°	6407.6	6315.9	6312.7	6225.7	5909.2	5455.0	4969.1	4533.9	4114.6	3802.8	3774.3
47.5°	6102.2	6019.9	6019.9	5939.2	5635.4	5174.9	4701.7	4261.7	3848.7	3573.3	3522.7
50°	5769.9	5692.3	5668.6	5629.0	5333.1	4869.4	4420.0	3995.9	3586.0	3323.3	3274.2
52.5°	5415.4	5348.9	5364.8	5292.0	5005.5	4551.3	4135.1	3696.8	3321.7	3082.8	3033.7
55°	5041.9	4947.0	4961.2	4934.3	4663.7	4223.8	3815.5	3449.9	3062.2	2837.5	2791.6
57.5°	4654.2	4530.8	4581.4	4565.6	4299.7	3888.3	3522.7	3169.8	2804.2	2596.9	2552.6
60°	4257.0	4138.3	4190.5	4176.3	3926.2	3552.8	3220.4	2892.9	2547.9	2359.5	2315.2
62.5°	3848.7	3739.5	3787.0	3775.9	3546.4	3209.4	2919.8	2619.1	2289.9	2120.6	2079.4
65°	3437.2	3332.8	3375.5	3367.6	3155.6	2899.2	2611.2	2335.8	2030.4	1883.2	1842.1
67.5°	3016.3	2919.8	2959.3	2959.3	2764.7	2519.4	2301.0	2049.4	1775.6	1649.0	1611.0
70°	2598.5	2508.3	2543.1	2540.0	2375.4	2176.0	1987.7	1762.9	1517.6	1413.2	1381.5
72.5°	2177.6	2098.4	2130.1	2126.9	1989.2	1861.1	1674.3	1479.7	1266.0	1182.1	1153.7
75°	1769.3	1694.9	1725.0	1721.8	1609.4	1489.2	1364.1	1202.7	1019.1	960.6	932.1
77.5°	1380.0	1304.0	1329.3	1329.3	1247.0	1160.0	1060.3	935.3	805.5	742.2	721.6
80°	1006.5	970.1	957.4	959.0	903.6	846.7	796.0	675.7	580.8	538.1	523.8
82.5°	661.5	631.4	618.8	621.9	590.3	555.5	523.8	439.9	376.6	351.3	343.4
85°	351.3	329.2	318.1	326.0	319.7	300.7	284.9	227.9	188.3	178.8	174.1
87.5°	110.8	96.5	88.6	117.1	99.7	88.6	85.5	68.0	52.2	52.2	50.6
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°	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3
2.5°	6774.8	6774.8	6713.1	6698.8	6692.5	6700.4	6638.7	6627.6	6716.2	6686.2	6618.1
5°	6721.0	6717.8	6630.8	6615.0	6615.0	6605.5	6535.8	6520.0	6608.6	6583.3	6508.9
7.5°	6654.5	6645.0	6542.2	6531.1	6515.3	6508.9	6431.4	6420.3	6496.3	6480.4	6410.8
10°	6573.8	6564.3	6442.5	6434.6	6417.1	6404.5	6331.7	6323.8	6401.3	6376.0	6320.6
12.5°	6467.8	6450.4	6325.4	6317.4	6303.2	6298.5	6227.2	6224.1	6309.5	6284.2	6225.7
15°	6328.5	6314.3	6175.0	6178.2	6179.8	6179.8	6122.8	6119.6	6203.5	6192.4	6129.1
17.5°	6175.0	6156.0	6023.1	6032.6	6043.7	6056.3	6012.0	6019.9	6108.6	6094.3	6037.3
20°	6000.9	5982.0	5852.2	5879.1	5902.8	5928.1	5899.7	5921.8	6004.1	5997.8	5955.0
22.5°	5806.3	5787.3	5667.0	5708.2	5747.7	5795.2	5782.6	5807.9	5894.9	5893.3	5855.3
25°	5568.9	5573.7	5467.6	5518.3	5584.7	5651.2	5655.9	5697.1	5793.6	5784.1	5749.3
27.5°	5347.4	5353.7	5241.3	5326.8	5415.4	5500.9	5521.4	5578.4	5676.5	5668.6	5638.5
30°	5114.7	5122.6	5013.4	5130.6	5238.2	5342.6	5386.9	5464.5	5564.2	5564.2	5532.5
32.5°	4872.6	4886.8	4772.9	4929.6	5054.6	5176.4	5254.0	5334.7	5448.6	5445.5	5418.6
35°	4624.1	4640.0	4535.5	4734.9	4859.9	5008.7	5105.2	5212.8	5314.1	5315.7	5295.1
37.5°	4370.9	4389.9	4295.0	4513.4	4655.8	4831.5	4954.9	5062.5	5174.9	5181.2	5162.2
40°	4119.3	4139.9	4057.6	4268.1	4448.5	4644.7	4787.1	4913.7	5037.2	5040.3	5027.7
42.5°	3867.7	3889.9	3828.1	4033.9	4238.0	4448.5	4616.2	4760.2	4886.8	4894.8	4880.5
45°	3622.4	3641.4	3597.1	3821.8	4018.0	4247.5	4440.6	4603.6	4731.8	4742.8	4738.1
47.5°	3378.7	3396.1	3356.5	3562.3	3788.6	4032.3	4255.4	4435.8	4571.9	4584.6	4581.4
50°	3139.7	3154.0	3111.2	3326.5	3551.2	3810.7	4043.4	4252.2	4404.2	4416.8	4415.2
52.5°	2902.4	2916.6	2880.2	3106.5	3310.6	3584.4	3837.6	4063.9	4214.3	4233.3	4236.4
55°	2672.9	2679.2	2650.7	2867.5	3065.4	3351.8	3643.0	3862.9	4013.3	4029.1	4038.6
57.5°	2443.4	2445.0	2421.3	2628.6	2818.5	3111.2	3416.7	3647.7	3790.2	3806.0	3820.2
60°	2215.5	2214.0	2187.1	2388.0	2570.0	2859.6	3177.7	3407.2	3544.9	3559.1	3578.1
62.5°	1989.2	1984.5	1960.8	2145.9	2316.8	2603.3	2922.9	3144.5	3275.8	3285.3	3310.6
65°	1764.5	1759.8	1737.6	1908.5	2063.6	2337.4	2650.7	2861.2	2979.9	2992.6	2987.8
67.5°	1543.0	1533.5	1516.1	1669.6	1810.4	2063.6	2364.3	2565.3	2663.4	2674.5	2704.5
70°	1321.4	1310.3	1270.8	1433.8	1557.2	1783.5	2063.6	2242.4	2324.7	2335.8	2331.1
72.5°	1103.0	1091.9	1049.2	1199.6	1304.0	1501.8	1751.9	1900.6	1971.8	1981.3	1981.3
75°	891.0	884.6	857.7	971.7	1058.7	1220.1	1432.2	1555.6	1611.0	1622.1	1618.9
77.5°	686.8	682.1	655.2	753.3	821.3	941.6	1112.5	1209.1	1250.2	1262.9	1289.8
80°	492.2	490.6	447.9	544.4	574.5	675.7	800.8	875.1	897.3	914.7	933.7
82.5°	314.9	316.5	273.8	356.1	368.7	433.6	511.2	557.0	572.9	587.1	601.4
85°	153.5	159.8	136.1	188.3	189.9	223.1	256.4	273.8	280.1	291.2	303.8
87.5°	39.6	45.9	25.3	53.8	47.5	61.7	71.2	76.0	74.4	82.3	87.0
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°	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3
2.5°	6640.3	6690.9	6665.6	6747.9	6779.5	6728.9	6817.5	6819.1	6755.8	6830.2	6871.3
5°	6537.4	6589.6	6573.8	6659.3	6698.8	6654.5	6762.1	6782.7	6721.0	6804.9	6871.3
7.5°	6433.0	6494.7	6474.1	6561.2	6608.6	6573.8	6689.3	6722.6	6675.1	6766.9	6855.5
10°	6342.8	6395.0	6372.8	6464.6	6505.8	6477.3	6591.2	6652.9	6608.6	6721.0	6827.0
12.5°	6254.1	6296.9	6271.6	6347.5	6387.1	6350.7	6489.9	6546.9	6515.3	6632.4	6768.5
15°	6140.2	6187.7	6152.9	6220.9	6251.0	6219.3	6333.3	6431.4	6391.8	6520.0	6670.3
17.5°	6053.2	6080.1	6032.6	6086.4	6103.8	6061.1	6176.6	6273.1	6244.6	6383.9	6558.0
20°	5956.6	5978.8	5912.3	5942.4	5940.8	5887.0	5993.0	6088.0	6069.0	6222.5	6420.3
22.5°	5849.0	5860.1	5782.6	5788.9	5785.7	5697.1	5792.0	5888.6	5880.7	6035.8	6257.3
25°	5735.1	5736.7	5637.0	5633.8	5599.0	5494.5	5578.4	5687.6	5663.9	5831.6	6064.2
27.5°	5622.7	5606.9	5486.6	5458.1	5402.7	5277.7	5352.1	5450.2	5436.0	5600.6	5858.5
30°	5502.4	5481.9	5334.7	5282.5	5201.8	5057.8	5119.5	5211.3	5219.2	5363.2	5633.8
32.5°	5388.5	5336.3	5173.3	5097.3	4996.0	4828.3	4861.5	4954.9	4967.6	5113.1	5391.7
35°	5241.3	5206.5	5005.5	4875.8	4776.1	4592.5	4627.3	4692.2	4711.2	4853.6	5136.9
37.5°	5102.1	5046.7	4833.0	4674.8	4546.6	4353.5	4363.0	4429.5	4448.5	4592.5	4872.6
40°	4958.1	4878.9	4649.5	4464.3	4317.1	4114.6	4103.5	4173.1	4187.4	4328.2	4581.4
42.5°	4804.6	4709.6	4451.6	4249.1	4079.8	3874.0	3851.9	3912.0	3927.8	4065.5	4314.0
45°	4649.5	4535.5	4249.1	4027.5	3842.4	3631.9	3609.7	3655.6	3679.4	3809.1	4048.1
47.5°	4484.9	4351.9	4040.2	3793.3	3601.8	3391.4	3364.5	3410.3	3429.3	3557.5	3783.8
50°	4312.4	4151.0	3825.0	3552.8	3362.9	3155.6	3116.0	3169.8	3187.2	3307.5	3529.0
52.5°	4122.5	3943.7	3595.5	3310.6	3120.7	2922.9	2875.5	2927.7	2948.2	3065.4	3269.5
55°	3921.5	3728.4	3364.5	3087.5	2881.8	2688.7	2649.1	2669.7	2714.0	2824.8	3014.7
57.5°	3695.2	3503.7	3120.7	2839.1	2641.2	2456.1	2422.8	2441.8	2483.0	2590.6	2761.5
60°	3454.7	3252.1	2872.3	2590.6	2399.1	2223.4	2193.4	2210.8	2255.1	2353.2	2511.5
62.5°	3217.3	2989.4	2615.9	2335.8	2161.7	1998.7	1990.8	1984.5	2025.6	2120.6	2259.8
65°	2929.3	2710.9	2348.5	2082.6	1924.4	1777.2	1745.5	1759.8	1799.3	1886.4	2032.0
67.5°	2620.7	2422.8	2074.7	1829.4	1688.6	1557.2	1530.3	1536.6	1577.8	1653.7	1780.3
70°	2293.1	2119.0	1794.6	1574.6	1455.9	1332.5	1315.1	1316.7	1356.2	1422.7	1533.5
72.5°	1949.7	1793.0	1511.3	1323.0	1224.9	1136.3	1120.4	1101.4	1137.8	1194.8	1289.8
75°	1599.9	1462.3	1229.6	1076.1	998.6	924.2	910.0	891.0	927.4	976.4	1050.8
77.5°	1247.0	1136.3	955.8	837.2	777.0	721.6	709.0	688.4	724.8	761.2	819.7
80°	902.0	821.3	713.7	588.7	568.1	531.7	519.1	496.9	531.7	555.5	599.8
82.5°	582.4	528.6	466.8	379.8	376.6	349.7	343.4	318.1	349.7	364.0	397.2
85°	294.3	269.0	253.2	193.1	199.4	182.0	180.4	153.5	178.8	185.2	204.1
87.5°	83.9	88.6	79.1	47.5	60.1	57.0	57.0	41.1	57.0	57.0	64.9
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: P838231

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3	6784.3
2.5°	6790.6	6817.5	6823.9	6822.3	6839.7	6934.6	6903.0	6934.6
5°	6806.4	6866.6	6882.4	6904.6	6933.0	7040.7	7005.8	7043.8
7.5°	6815.9	6906.1	6941.0	6983.7	7029.6	7149.9	7121.4	7159.4
10°	6815.9	6933.0	6983.7	7054.9	7116.6	7255.9	7229.0	7273.3
12.5°	6787.5	6937.8	7009.0	7108.7	7187.8	7338.2	7327.1	7358.7
15°	6728.9	6914.1	7012.2	7140.4	7238.5	7406.2	7401.5	7439.5
17.5°	6649.8	6872.9	6991.6	7153.0	7276.5	7464.8	7475.9	7496.4
20°	6550.1	6795.4	6950.5	7148.3	7303.4	7510.7	7524.9	7553.4
22.5°	6418.7	6702.0	6888.7	7127.7	7306.5	7529.7	7555.0	7581.9
25°	6263.6	6589.6	6808.0	7088.1	7290.7	7528.1	7562.9	7586.6
27.5°	6086.4	6444.0	6705.2	7024.8	7246.4	7502.8	7545.5	7574.0
30°	5880.7	6289.0	6588.1	6942.5	7186.3	7455.3	7501.2	7529.7
32.5°	5668.6	6118.0	6448.8	6836.5	7099.2	7379.3	7418.9	7441.0
35°	5437.6	5910.7	6281.0	6700.4	6986.9	7257.5	7287.5	7311.3
37.5°	5185.9	5686.0	6089.6	6546.9	6828.6	7088.1	7115.0	7141.9
40°	4926.4	5450.2	5874.3	6358.6	6640.3	6880.8	6909.3	6928.3
42.5°	4665.3	5189.1	5644.9	6137.0	6417.1	6648.2	6665.6	6684.6
45°	4401.0	4918.5	5386.9	5891.7	6168.7	6385.5	6391.8	6407.6
47.5°	4132.0	4638.4	5103.6	5611.6	5885.4	6083.2	6089.6	6102.2
50°	3861.4	4358.3	4801.4	5309.4	5576.8	5785.7	5757.2	5769.9
52.5°	3595.5	4063.9	4516.5	4983.4	5247.7	5432.8	5440.7	5415.4
55°	3334.4	3775.9	4192.1	4641.6	4893.2	5037.2	5032.4	5041.9
57.5°	3070.1	3484.7	3866.1	4277.6	4522.9	4659.0	4687.4	4654.2
60°	2801.1	3190.4	3532.2	3904.1	4141.5	4255.4	4288.6	4257.0
62.5°	2533.6	2891.3	3201.5	3525.9	3745.8	3886.7	3883.5	3848.7
65°	2266.2	2590.6	2867.5	3142.9	3334.4	3475.2	3468.9	3437.2
67.5°	2019.3	2286.8	2535.2	2758.3	2924.5	3021.0	3054.3	3016.3
70°	1747.1	1978.2	2196.5	2375.4	2513.1	2600.1	2631.7	2598.5
72.5°	1474.9	1671.1	1824.7	1997.1	2103.2	2176.0	2209.2	2177.6
75°	1205.9	1367.3	1492.3	1626.8	1701.2	1762.9	1800.9	1769.3
77.5°	944.8	1069.8	1169.5	1267.6	1353.1	1367.3	1400.5	1380.0
80°	696.3	786.5	859.3	924.2	985.9	992.2	1019.1	1006.5
82.5°	463.7	523.8	542.8	610.9	650.4	644.1	671.0	661.5
85°	245.3	281.7	314.9	335.5	357.7	337.1	360.8	351.3
87.5°	82.3	87.0	76.0	107.6	118.7	101.3	115.5	110.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)