

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: P838228

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4HI-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: P838228
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-LD4-4HI-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

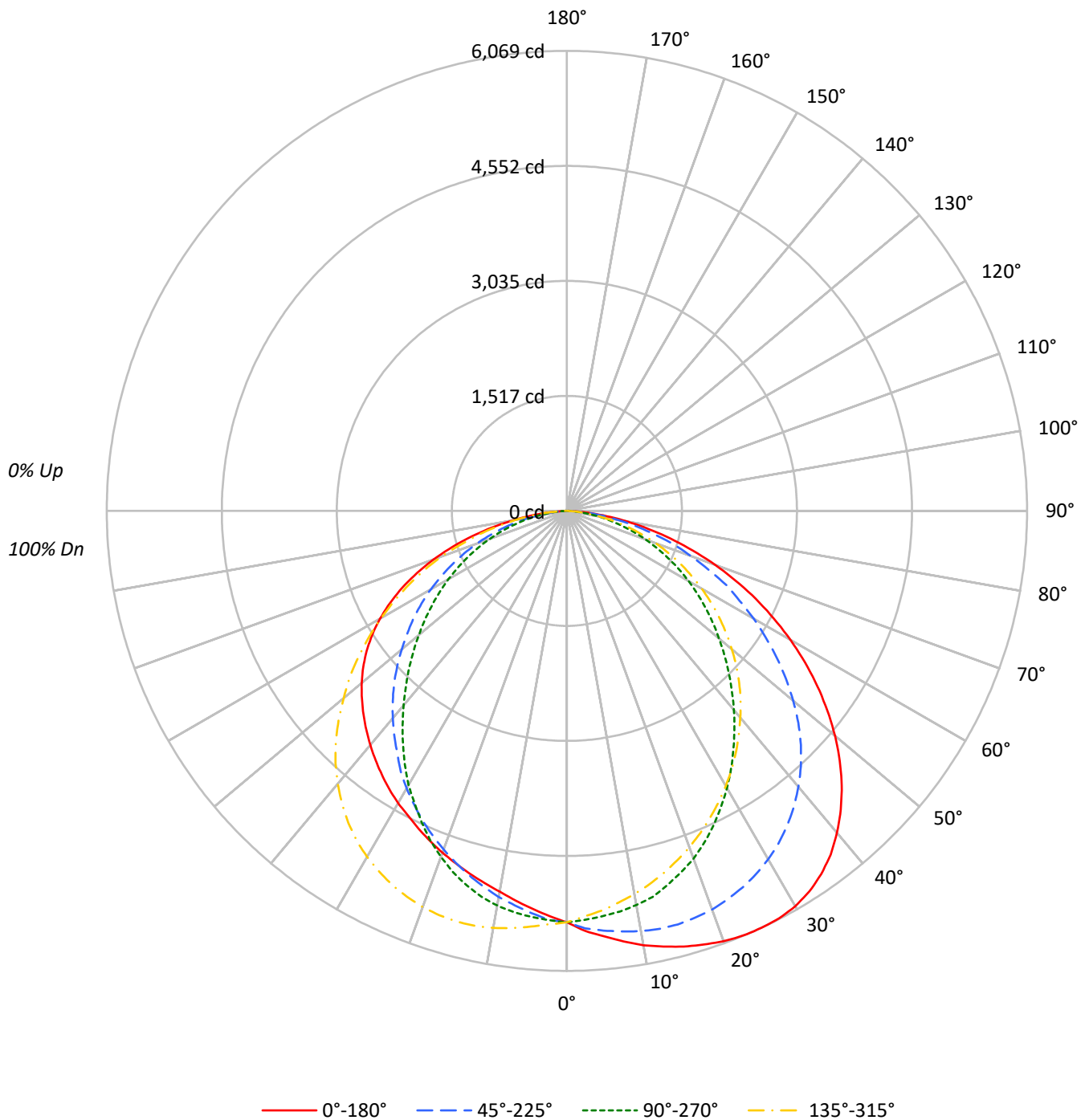
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15923.7 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): 176
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°	7303	7303	7303	7303
5°	7611	7250	7113	7262
10°	7950	7213	6969	7223
15°	8290	7121	6901	7123
20°	8652	6992	6870	6952
25°	9011	6796	6870	6727
30°	9359	6560	6916	6487
35°	9607	6291	6985	6191
40°	9735	6020	7083	5884
45°	9754	5746	7220	5601
50°	9662	5483	7396	5337
55°	9462	5239	7561	5093
60°	9165	4984	7662	4855
65°	8755	4692	7622	4583
70°	8178	4348	7351	4268
75°	7358	3877	6746	3857
80°	6239	3247	5670	3296
85°	4340	2150	3597	2209

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.3	3.2
10°-20°	1492.2	9.4
20°-30°	2286.9	14.4
30°-40°	2780.7	17.5
40°-50°	2890.7	18.2
50°-60°	2611.2	16.4
60°-70°	1985.2	12.5
70°-80°	1106.7	7.0
80°-90°	254.8	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°	4294.4	27.0
0°-40°	7075.1	44.4
0°-60°	12577.0	79.0
0°-90°	15923.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15923.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5428	5428	5428	5428	5428	
5°	5635	5368	5267	5377	5635	543
15°	5952	5112	4954	5114	5952	1687
25°	6069	4578	4627	4531	6069	2803
35°	5849	3830	4253	3769	5849	3653
45°	5126	3020	3794	2944	5126	3947
55°	4034	2233	3223	2171	4034	3601
65°	2750	1474	2394	1440	2750	2717
75°	1415	746	1298	742	1415	1504
85°	281	139	233	143	281	354
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°	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5
2.5°	5547.8	5466.8	5468.1	5539.0	5484.5	5511.1	5435.1	5464.3	5455.4	5461.7	5399.7
5°	5635.2	5547.8	5546.5	5607.3	5546.5	5557.9	5461.7	5480.7	5452.9	5435.1	5368.0
7.5°	5727.6	5640.2	5631.4	5684.5	5604.8	5595.9	5489.6	5489.6	5438.9	5394.6	5331.3
10°	5818.7	5728.9	5717.5	5758.0	5659.2	5630.1	5501.0	5480.7	5413.6	5347.8	5279.4
12.5°	5887.1	5796.0	5787.1	5812.4	5701.0	5647.8	5501.0	5461.7	5363.0	5270.5	5217.4
15°	5951.7	5858.0	5833.9	5846.6	5718.7	5647.8	5483.2	5422.5	5295.9	5174.3	5112.3
17.5°	5997.3	5907.4	5883.3	5882.0	5727.6	5626.3	5445.3	5361.7	5209.8	5062.9	5000.9
20°	6042.8	5952.9	5922.6	5899.8	5725.1	5597.2	5389.6	5276.9	5099.6	4935.0	4883.1
22.5°	6065.6	5973.2	5940.3	5906.1	5708.6	5544.0	5321.2	5178.1	4975.6	4779.3	4736.3
25°	6069.4	5974.5	5939.0	5889.6	5675.7	5480.7	5232.6	5059.1	4832.5	4614.7	4578.0
27.5°	6059.3	5955.5	5920.0	5860.5	5626.3	5403.5	5127.5	4923.7	4680.6	4440.0	4400.8
30°	6023.8	5918.8	5884.6	5807.4	5556.7	5308.5	5012.3	4773.0	4512.2	4256.4	4222.3
32.5°	5952.9	5850.4	5822.5	5745.3	5480.7	5198.4	4878.1	4610.9	4326.1	4081.7	4031.1
35°	5849.1	5746.6	5728.9	5647.8	5374.4	5066.7	4731.2	4433.7	4128.6	3879.2	3829.8
37.5°	5713.7	5627.6	5601.0	5521.2	5249.0	4917.3	4562.8	4241.3	3927.3	3658.9	3628.5
40°	5542.7	5461.7	5441.5	5370.6	5103.4	4751.5	4380.5	4042.5	3719.6	3470.2	3427.2
42.5°	5347.8	5271.8	5260.4	5187.0	4923.7	4567.9	4183.0	3836.1	3503.1	3262.6	3219.6
45°	5126.2	5052.8	5050.3	4980.6	4727.4	4364.1	3975.4	3627.2	3291.7	3042.3	3019.5
47.5°	4881.9	4816.0	4816.0	4751.5	4508.4	4140.0	3761.4	3409.5	3079.0	2858.7	2818.2
50°	4616.0	4554.0	4535.0	4503.3	4266.6	3895.6	3536.1	3196.8	2868.9	2658.7	2619.4
52.5°	4332.4	4279.2	4291.9	4233.7	4004.5	3641.1	3308.2	2957.5	2657.4	2466.3	2427.0
55°	4033.6	3957.7	3969.1	3947.5	3731.0	3379.1	3052.4	2760.0	2449.8	2270.0	2233.3
57.5°	3723.4	3624.7	3665.2	3652.5	3439.8	3110.7	2818.2	2535.9	2243.4	2077.6	2042.1
60°	3405.7	3310.7	3352.5	3341.1	3141.1	2842.3	2576.4	2314.3	2038.3	1887.7	1852.2
62.5°	3079.0	2991.7	3029.6	3020.8	2837.2	2567.5	2335.9	2095.3	1832.0	1696.5	1663.6
65°	2749.9	2666.3	2700.5	2694.1	2524.5	2319.4	2089.0	1868.7	1624.3	1506.6	1473.7
67.5°	2413.1	2335.9	2367.5	2367.5	2211.8	2015.5	1840.8	1639.5	1420.5	1319.2	1288.8
70°	2078.8	2006.7	2034.5	2032.0	1900.3	1740.8	1590.2	1410.4	1214.1	1130.6	1105.3
72.5°	1742.1	1678.8	1704.1	1701.6	1591.4	1488.9	1339.5	1183.8	1012.8	945.7	922.9
75°	1415.4	1355.9	1380.0	1377.5	1287.6	1191.3	1091.3	962.2	815.3	768.5	745.7
77.5°	1104.0	1043.2	1063.5	1063.5	997.6	928.0	848.3	748.2	644.4	593.8	577.3
80°	805.2	776.1	766.0	767.2	722.9	677.3	636.8	540.6	464.6	430.5	419.1
82.5°	529.2	505.2	495.0	497.6	472.2	444.4	419.1	352.0	301.3	281.1	274.7
85°	281.1	263.3	254.5	260.8	255.7	240.5	227.9	182.3	150.7	143.1	139.3
87.5°	88.6	77.2	70.9	93.7	79.8	70.9	68.4	54.4	41.8	41.8	40.5
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°	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5
2.5°	5419.9	5419.9	5370.6	5359.2	5354.1	5360.4	5311.1	5302.2	5373.1	5349.0	5294.6
5°	5376.9	5374.4	5304.7	5292.1	5292.1	5284.5	5228.8	5216.1	5287.0	5266.8	5207.2
7.5°	5323.7	5316.1	5233.8	5225.0	5212.3	5207.2	5145.2	5136.3	5197.1	5184.5	5128.8
10°	5259.2	5251.6	5154.1	5147.7	5133.8	5123.7	5065.4	5059.1	5121.2	5100.9	5056.6
12.5°	5174.3	5160.4	5060.4	5054.1	5042.7	5038.9	4981.9	4979.4	5047.7	5027.5	4980.6
15°	5062.9	5051.5	4940.1	4942.6	4943.9	4943.9	4898.3	4895.8	4962.9	4954.0	4903.4
17.5°	4940.1	4924.9	4818.6	4826.2	4835.0	4845.2	4809.7	4816.0	4886.9	4875.5	4830.0
20°	4800.8	4785.7	4681.8	4703.4	4722.4	4742.6	4719.8	4737.5	4803.4	4798.3	4764.1
22.5°	4645.1	4629.9	4533.7	4566.6	4598.3	4636.3	4626.1	4646.4	4716.0	4714.8	4684.4
25°	4455.2	4459.0	4374.2	4414.7	4467.9	4521.0	4524.8	4557.8	4635.0	4627.4	4599.5
27.5°	4278.0	4283.0	4193.1	4261.5	4332.4	4400.8	4417.2	4462.8	4541.3	4535.0	4510.9
30°	4091.9	4098.2	4010.8	4104.5	4190.6	4274.2	4309.6	4371.7	4451.4	4451.4	4426.1
32.5°	3898.2	3909.5	3818.4	3943.7	4043.8	4141.2	4203.3	4267.8	4359.0	4356.5	4334.9
35°	3699.4	3712.0	3628.5	3788.0	3888.0	4007.0	4084.3	4170.4	4251.4	4252.6	4236.2
37.5°	3496.8	3512.0	3436.0	3610.8	3724.7	3865.2	3964.0	4050.1	4140.0	4145.0	4129.8
40°	3295.5	3312.0	3246.1	3414.5	3558.9	3715.8	3829.8	3931.1	4029.8	4032.4	4022.2
42.5°	3094.2	3111.9	3062.6	3227.2	3390.5	3558.9	3693.1	3808.3	3909.5	3915.9	3904.5
45°	2898.0	2913.2	2877.7	3057.5	3214.5	3398.1	3552.5	3682.9	3785.5	3794.3	3790.5
47.5°	2703.0	2716.9	2685.3	2849.9	3030.9	3225.9	3404.4	3548.7	3657.6	3667.7	3665.2
50°	2511.8	2523.2	2489.0	2661.2	2841.0	3048.6	3234.7	3401.9	3523.4	3533.5	3532.3
52.5°	2321.9	2333.3	2304.2	2485.2	2648.6	2867.6	3070.2	3251.2	3371.5	3386.7	3389.2
55°	2138.4	2143.4	2120.6	2294.1	2452.3	2681.5	2914.4	3090.4	3210.7	3223.4	3230.9
57.5°	1954.8	1956.0	1937.1	2102.9	2254.8	2489.0	2733.4	2918.2	3032.2	3044.8	3056.2
60°	1772.5	1771.2	1749.7	1910.5	2056.1	2287.7	2542.2	2725.8	2835.9	2847.3	2862.5
62.5°	1591.4	1587.6	1568.6	1716.8	1853.5	2082.6	2338.4	2515.6	2620.7	2628.3	2648.6
65°	1411.6	1407.8	1390.1	1526.9	1650.9	1869.9	2120.6	2289.0	2384.0	2394.1	2390.3
67.5°	1234.4	1226.8	1212.9	1335.7	1448.4	1650.9	1891.5	2052.3	2130.8	2139.6	2163.7
70°	1057.1	1048.3	1016.6	1147.0	1245.8	1426.8	1650.9	1794.0	1859.8	1868.7	1864.9
72.5°	882.4	873.6	839.4	959.7	1043.2	1201.5	1401.5	1520.5	1577.5	1585.1	1585.1
75°	712.8	707.7	686.2	777.4	847.0	976.1	1145.8	1244.5	1288.8	1297.7	1295.2
77.5°	549.5	545.7	524.1	602.6	657.1	753.3	890.0	967.3	1000.2	1010.3	1031.8
80°	393.7	392.5	358.3	435.5	459.6	540.6	640.6	700.1	717.8	731.8	747.0
82.5°	251.9	253.2	219.0	284.9	295.0	346.9	408.9	445.6	458.3	469.7	481.1
85°	122.8	127.9	108.9	150.7	151.9	178.5	205.1	219.0	224.1	233.0	243.1
87.5°	31.7	36.7	20.3	43.0	38.0	49.4	57.0	60.8	59.5	65.8	69.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5
2.5°	5312.3	5352.8	5332.6	5398.4	5423.7	5383.2	5454.1	5455.4	5404.7	5464.3	5497.2
5°	5230.0	5271.8	5259.2	5327.5	5359.2	5323.7	5409.8	5426.3	5376.9	5444.0	5497.2
7.5°	5146.5	5195.9	5179.4	5249.0	5287.0	5259.2	5351.6	5378.2	5340.2	5413.6	5484.5
10°	5074.3	5116.1	5098.4	5171.8	5204.7	5181.9	5273.1	5322.5	5287.0	5376.9	5461.7
12.5°	5003.4	5037.6	5017.3	5078.1	5109.8	5080.6	5192.1	5237.6	5212.3	5306.0	5414.9
15°	4912.3	4950.2	4922.4	4976.8	5000.9	4975.6	5066.7	5145.2	5113.6	5216.1	5336.4
17.5°	4842.6	4864.1	4826.2	4869.2	4883.1	4849.0	4941.4	5018.6	4995.8	5107.2	5246.5
20°	4765.4	4783.1	4729.9	4754.0	4752.7	4709.7	4794.5	4870.5	4855.3	4978.1	5136.3
22.5°	4679.3	4688.2	4626.1	4631.2	4628.7	4557.8	4633.7	4711.0	4704.6	4828.7	5005.9
25°	4588.2	4589.4	4509.7	4507.1	4479.3	4395.7	4462.8	4550.2	4531.2	4665.4	4851.5
27.5°	4498.3	4485.6	4389.4	4366.6	4322.3	4222.3	4281.8	4360.3	4348.9	4480.5	4686.9
30°	4402.0	4385.6	4267.8	4226.1	4161.5	4046.3	4095.7	4169.1	4175.4	4290.6	4507.1
32.5°	4310.9	4269.1	4138.7	4077.9	3996.9	3862.7	3889.3	3964.0	3974.1	4090.6	4313.4
35°	4193.1	4165.3	4004.5	3900.7	3820.9	3674.1	3701.9	3753.8	3769.0	3883.0	4109.6
37.5°	4081.7	4037.4	3866.5	3739.9	3637.3	3482.9	3490.5	3543.7	3558.9	3674.1	3898.2
40°	3966.5	3903.2	3719.6	3571.5	3453.8	3291.7	3282.9	3338.6	3350.0	3462.6	3665.2
42.5°	3843.7	3767.8	3561.4	3399.3	3263.9	3099.3	3081.6	3129.7	3142.3	3252.5	3451.2
45°	3719.6	3628.5	3399.3	3222.1	3074.0	2905.6	2887.9	2924.6	2943.6	3047.4	3238.5
47.5°	3588.0	3481.6	3232.2	3034.7	2881.5	2713.1	2691.6	2728.3	2743.5	2846.1	3027.1
50°	3450.0	3320.8	3060.0	2842.3	2690.3	2524.5	2492.8	2535.9	2549.8	2646.0	2823.3
52.5°	3298.0	3155.0	2876.5	2648.6	2496.6	2338.4	2300.4	2342.2	2358.6	2452.3	2615.7
55°	3137.3	2982.8	2691.6	2470.1	2305.5	2151.0	2119.4	2135.8	2171.3	2259.9	2411.8
57.5°	2956.2	2803.0	2496.6	2271.3	2113.0	1964.9	1938.3	1953.5	1986.4	2072.5	2209.2
60°	2763.8	2601.7	2297.9	2072.5	1919.3	1778.8	1754.7	1768.7	1804.1	1882.6	2009.2
62.5°	2573.9	2391.6	2092.8	1868.7	1729.4	1599.0	1592.7	1587.6	1620.5	1696.5	1807.9
65°	2343.5	2168.7	1878.8	1666.1	1539.5	1421.8	1396.4	1407.8	1439.5	1509.1	1625.6
67.5°	2096.6	1938.3	1659.8	1463.5	1350.9	1245.8	1224.3	1229.3	1262.2	1323.0	1424.3
70°	1834.5	1695.2	1435.7	1259.7	1164.8	1066.0	1052.1	1053.4	1085.0	1138.2	1226.8
72.5°	1559.8	1434.4	1209.1	1058.4	979.9	909.0	896.4	881.2	910.3	955.9	1031.8
75°	1280.0	1169.8	983.7	860.9	798.9	739.4	728.0	712.8	741.9	781.2	840.7
77.5°	997.6	909.0	764.7	669.7	621.6	577.3	567.2	550.7	579.8	609.0	655.8
80°	721.6	657.1	571.0	471.0	454.5	425.4	415.3	397.5	425.4	444.4	479.8
82.5°	465.9	422.9	373.5	303.9	301.3	279.8	274.7	254.5	279.8	291.2	317.8
85°	235.5	215.2	202.6	154.5	159.5	145.6	144.3	122.8	143.1	148.1	163.3
87.5°	67.1	70.9	63.3	38.0	48.1	45.6	45.6	32.9	45.6	45.6	51.9
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: P838228

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5	5427.5
2.5°	5432.6	5454.1	5459.2	5457.9	5471.9	5547.8	5522.5	5547.8
5°	5445.3	5493.4	5506.0	5523.8	5546.5	5632.6	5604.8	5635.2
7.5°	5452.9	5525.0	5552.9	5587.1	5623.8	5720.0	5697.2	5727.6
10°	5452.9	5546.5	5587.1	5644.0	5693.4	5804.8	5783.3	5818.7
12.5°	5430.1	5550.3	5607.3	5687.1	5750.4	5870.7	5861.8	5887.1
15°	5383.2	5531.4	5609.8	5712.4	5790.9	5925.1	5921.3	5951.7
17.5°	5319.9	5498.4	5593.4	5722.5	5821.3	5971.9	5980.8	5997.3
20°	5240.2	5436.4	5560.5	5718.7	5842.8	6008.7	6020.0	6042.8
22.5°	5135.1	5361.7	5511.1	5702.3	5845.3	6023.8	6044.1	6065.6
25°	5011.0	5271.8	5446.5	5670.6	5832.7	6022.6	6050.4	6069.4
27.5°	4869.2	5155.3	5364.2	5620.0	5797.2	6002.3	6036.5	6059.3
30°	4704.6	5031.3	5270.5	5554.1	5749.1	5964.3	6001.1	6023.8
32.5°	4535.0	4894.5	5159.1	5469.3	5679.5	5903.6	5935.2	5952.9
35°	4350.1	4728.7	5024.9	5360.4	5589.6	5806.1	5830.1	5849.1
37.5°	4148.8	4548.9	4871.7	5237.6	5463.0	5670.6	5692.1	5713.7
40°	3941.2	4360.3	4699.6	5087.0	5312.3	5504.8	5527.6	5542.7
42.5°	3732.3	4151.4	4516.0	4909.7	5133.8	5318.7	5332.6	5347.8
45°	3520.9	3934.9	4309.6	4713.5	4935.0	5108.5	5113.6	5126.2
47.5°	3305.6	3710.8	4083.0	4489.4	4708.4	4866.7	4871.7	4881.9
50°	3089.2	3486.7	3841.2	4247.6	4461.5	4628.7	4605.9	4616.0
52.5°	2876.5	3251.2	3613.3	3986.8	4198.2	4346.3	4352.7	4332.4
55°	2667.6	3020.8	3353.8	3713.3	3914.6	4029.8	4026.0	4033.6
57.5°	2456.1	2787.8	3092.9	3422.1	3618.4	3727.2	3750.0	3723.4
60°	2240.9	2552.3	2825.8	3123.3	3313.2	3404.4	3431.0	3405.7
62.5°	2026.9	2313.1	2561.2	2820.8	2996.7	3109.4	3106.9	3079.0
65°	1813.0	2072.5	2294.1	2514.4	2667.6	2780.2	2775.2	2749.9
67.5°	1615.5	1829.4	2028.2	2206.7	2339.7	2416.9	2443.5	2413.1
70°	1397.7	1582.6	1757.3	1900.3	2010.5	2080.1	2105.4	2078.8
72.5°	1180.0	1336.9	1459.8	1597.7	1682.6	1740.8	1767.4	1742.1
75°	964.7	1093.9	1193.9	1301.5	1361.0	1410.4	1440.8	1415.4
77.5°	755.8	855.8	935.6	1014.1	1082.5	1093.9	1120.5	1104.0
80°	557.1	629.2	687.5	739.4	788.7	793.8	815.3	805.2
82.5°	371.0	419.1	434.3	488.7	520.3	515.3	536.8	529.2
85°	196.2	225.4	251.9	268.4	286.1	269.7	288.7	281.1
87.5°	65.8	69.6	60.8	86.1	95.0	81.0	92.4	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)