

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: P838083

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4STD-30-120-EDD**

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: P838083
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-LD4-4STD-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

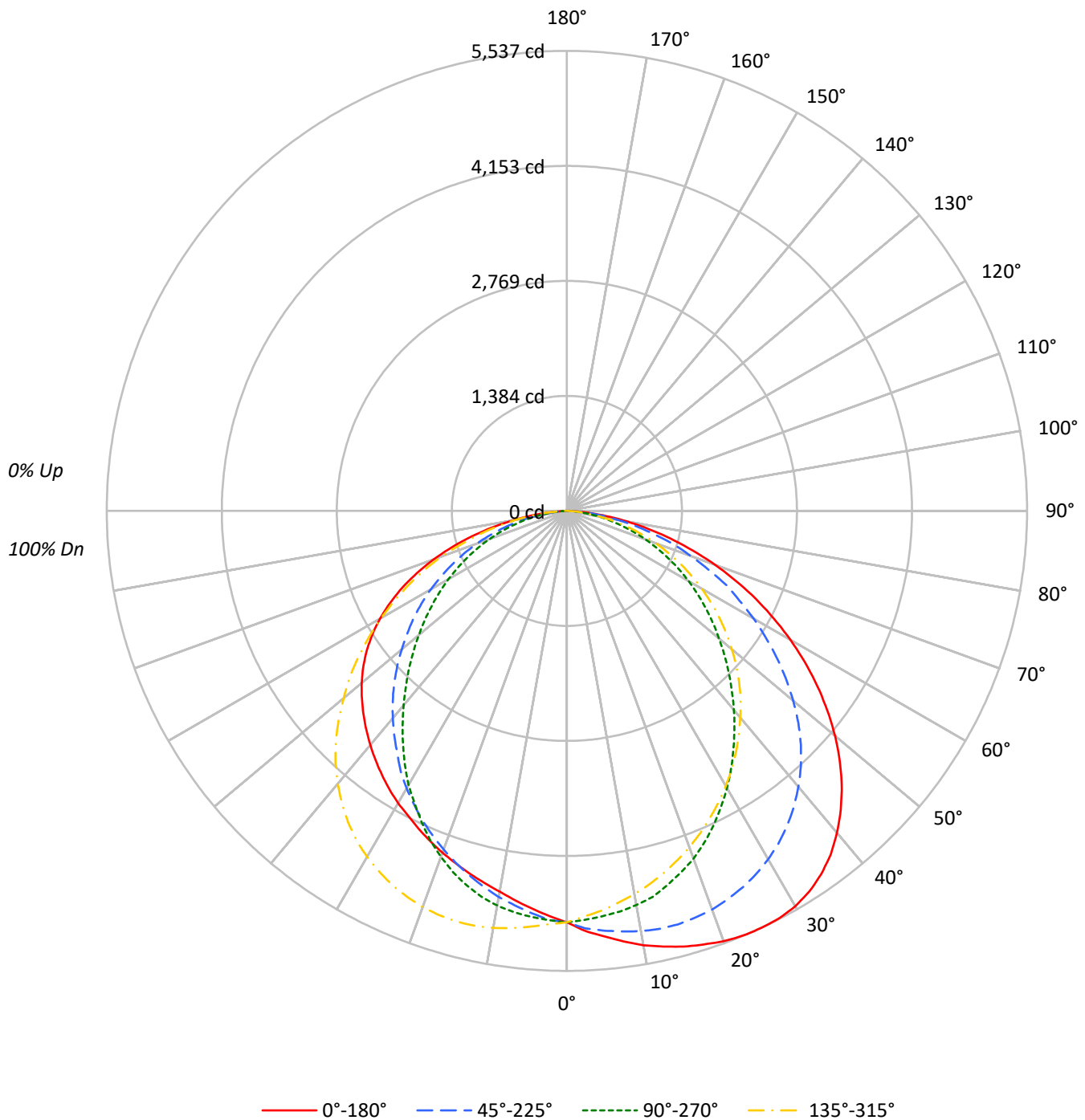
Lumens per Lamp: N/A
Luminaire Lumens: 14527.7 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	6662	6662	6662	6662
5°	6944	6615	6490	6626
10°	7253	6581	6358	6590
15°	7564	6497	6296	6499
20°	7894	6379	6268	6342
25°	8221	6201	6267	6137
30°	8538	5985	6310	5918
35°	8765	5739	6373	5648
40°	8882	5492	6461	5368
45°	8899	5242	6587	5110
50°	8815	5002	6748	4869
55°	8633	4780	6898	4647
60°	8361	4547	6990	4429
65°	7987	4280	6954	4181
70°	7461	3967	6707	3894
75°	6713	3537	6155	3519
80°	5692	2962	5173	3007
85°	3958	1962	3281	2015

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.1	3.2
10°-20°	1361.4	9.4
20°-30°	2086.4	14.4
30°-40°	2536.9	17.5
40°-50°	2637.3	18.2
50°-60°	2382.3	16.4
60°-70°	1811.1	12.5
70°-80°	1009.7	7.0
80°-90°	232.5	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°	3917.9	27.0
0°-40°	6454.8	44.4
0°-60°	11474.4	79.0
0°-90°	14527.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14527.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4952	4952	4952	4952	4952	
5°	5141	4897	4805	4906	5141	496
15°	5430	4664	4520	4665	5430	1540
25°	5537	4177	4222	4134	5537	2558
35°	5336	3494	3880	3439	5336	3333
45°	4677	2755	3462	2686	4677	3601
55°	3680	2038	2941	1981	3680	3285
65°	2509	1344	2184	1313	2509	2479
75°	1291	680	1184	677	1291	1372
85°	256	127	212	130	256	323
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°	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7
2.5°	5061.4	4987.5	4988.7	5053.4	5003.7	5028.0	4958.6	4985.2	4977.1	4982.9	4926.3
5°	5141.1	5061.4	5060.3	5115.7	5060.3	5070.7	4982.9	5000.2	4974.8	4958.6	4897.4
7.5°	5225.5	5145.8	5137.7	5186.2	5113.4	5105.3	5008.3	5008.3	4962.1	4921.7	4863.9
10°	5308.6	5226.6	5216.2	5253.2	5163.1	5136.5	5018.7	5000.2	4939.0	4878.9	4816.6
12.5°	5371.0	5287.8	5279.8	5302.9	5201.2	5152.7	5018.7	4982.9	4892.8	4808.5	4760.0
15°	5429.9	5344.4	5322.5	5334.0	5217.4	5152.7	5002.5	4947.1	4831.6	4720.7	4664.1
17.5°	5471.5	5389.5	5367.5	5366.4	5225.5	5133.1	4967.9	4891.7	4753.0	4619.1	4562.5
20°	5513.1	5431.1	5403.3	5382.6	5223.2	5106.5	4917.1	4814.3	4652.6	4502.4	4455.0
22.5°	5533.9	5449.5	5419.5	5388.3	5208.1	5058.0	4854.7	4724.2	4539.4	4360.3	4321.1
25°	5537.3	5450.7	5418.4	5373.3	5178.1	5000.2	4773.8	4615.6	4408.8	4210.2	4176.7
27.5°	5528.1	5433.4	5401.0	5346.7	5133.1	4929.8	4678.0	4492.0	4270.2	4050.8	4015.0
30°	5495.7	5399.9	5368.7	5298.2	5069.5	4843.1	4572.9	4354.6	4116.6	3883.3	3852.1
32.5°	5431.1	5337.5	5312.1	5241.6	5000.2	4742.7	4450.4	4206.7	3946.8	3723.9	3677.7
35°	5336.4	5242.8	5226.6	5152.7	4903.2	4622.5	4316.4	4045.0	3766.6	3539.1	3494.0
37.5°	5212.8	5134.2	5110.0	5037.2	4788.9	4486.2	4162.8	3869.4	3583.0	3338.1	3310.4
40°	5056.8	4982.9	4964.4	4899.7	4656.0	4334.9	3996.5	3688.1	3393.5	3166.0	3126.7
42.5°	4878.9	4809.6	4799.3	4732.3	4492.0	4167.4	3816.3	3499.8	3196.0	2976.6	2937.3
45°	4676.8	4609.8	4607.5	4544.0	4313.0	3981.5	3626.9	3309.2	3003.1	2775.6	2754.8
47.5°	4453.9	4393.8	4393.8	4334.9	4113.1	3777.0	3431.7	3110.6	2809.1	2608.1	2571.2
50°	4211.3	4154.7	4137.4	4108.5	3892.5	3554.1	3226.1	2916.5	2617.4	2425.6	2389.8
52.5°	3952.6	3904.1	3915.6	3862.5	3653.4	3321.9	3018.2	2698.2	2424.5	2250.0	2214.2
55°	3680.0	3610.7	3621.1	3601.5	3403.9	3082.8	2784.8	2518.0	2235.0	2071.0	2037.5
57.5°	3397.0	3306.9	3343.9	3332.3	3138.3	2838.0	2571.2	2313.6	2046.8	1895.4	1863.1
60°	3107.1	3020.5	3058.6	3048.2	2865.7	2593.1	2350.5	2111.4	1859.6	1722.2	1689.8
62.5°	2809.1	2729.4	2764.0	2756.0	2588.5	2342.5	2131.1	1911.6	1671.4	1547.8	1517.7
65°	2508.8	2432.5	2463.7	2458.0	2303.2	2116.1	1905.8	1704.9	1481.9	1374.5	1344.5
67.5°	2201.5	2131.1	2160.0	2160.0	2017.9	1838.8	1679.4	1495.8	1296.0	1203.6	1175.8
70°	1896.6	1830.8	1856.2	1853.9	1733.7	1588.2	1450.7	1286.7	1107.7	1031.5	1008.4
72.5°	1589.4	1531.6	1554.7	1552.4	1451.9	1358.3	1222.0	1080.0	924.0	862.8	842.0
75°	1291.4	1237.1	1259.0	1256.7	1174.7	1086.9	995.7	877.8	743.9	701.1	680.3
77.5°	1007.2	951.8	970.2	970.2	910.2	846.7	773.9	682.6	587.9	541.7	526.7
80°	734.6	708.0	698.8	700.0	659.5	618.0	581.0	493.2	423.9	392.7	382.3
82.5°	482.8	460.9	451.6	453.9	430.8	405.4	382.3	321.1	274.9	256.4	250.6
85°	256.4	240.3	232.2	237.9	233.3	219.5	207.9	166.3	137.5	130.5	127.1
87.5°	80.9	70.5	64.7	85.5	72.8	64.7	62.4	49.7	38.1	38.1	37.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7
2.5°	4944.8	4944.8	4899.7	4889.3	4884.7	4890.5	4845.5	4837.4	4902.1	4880.1	4830.4
5°	4905.5	4903.2	4839.7	4828.1	4828.1	4821.2	4770.4	4758.8	4823.5	4805.0	4750.7
7.5°	4857.0	4850.1	4775.0	4766.9	4755.4	4750.7	4694.1	4686.1	4741.5	4729.9	4679.1
10°	4798.1	4791.2	4702.2	4696.5	4683.7	4674.5	4621.4	4615.6	4672.2	4653.7	4613.3
12.5°	4720.7	4708.0	4616.8	4611.0	4600.6	4597.1	4545.1	4542.8	4605.2	4586.7	4544.0
15°	4619.1	4608.7	4507.0	4509.3	4510.5	4510.5	4468.9	4466.6	4527.8	4519.7	4473.5
17.5°	4507.0	4493.2	4396.1	4403.1	4411.2	4420.4	4388.1	4393.8	4458.5	4448.1	4406.5
20°	4380.0	4366.1	4271.4	4291.0	4308.4	4326.8	4306.0	4322.2	4382.3	4377.7	4346.5
22.5°	4237.9	4224.0	4136.2	4166.3	4195.2	4229.8	4220.6	4239.0	4302.6	4301.4	4273.7
25°	4064.6	4068.1	3990.7	4027.7	4076.2	4124.7	4128.2	4158.2	4228.7	4221.7	4196.3
27.5°	3902.9	3907.5	3825.5	3887.9	3952.6	4015.0	4030.0	4071.6	4143.2	4137.4	4115.5
30°	3733.1	3738.9	3659.2	3744.7	3823.2	3899.5	3931.8	3988.4	4061.2	4061.2	4038.1
32.5°	3556.4	3566.8	3483.6	3598.0	3689.2	3778.2	3834.8	3893.7	3976.9	3974.5	3954.9
35°	3375.1	3386.6	3310.4	3455.9	3547.2	3655.7	3726.2	3804.7	3878.7	3879.8	3864.8
37.5°	3190.3	3204.1	3134.8	3294.2	3398.2	3526.4	3616.5	3695.0	3777.0	3781.6	3767.8
40°	3006.6	3021.6	2961.6	3115.2	3246.9	3390.1	3494.0	3586.4	3676.5	3678.8	3669.6
42.5°	2823.0	2839.1	2794.1	2944.2	3093.2	3246.9	3369.3	3474.4	3566.8	3572.6	3562.2
45°	2643.9	2657.8	2625.4	2789.5	2932.7	3100.2	3241.1	3360.1	3453.6	3461.7	3458.2
47.5°	2466.0	2478.7	2449.9	2600.0	2765.2	2943.1	3105.9	3237.6	3337.0	3346.2	3343.9
50°	2291.6	2302.0	2270.8	2427.9	2591.9	2781.4	2951.2	3103.6	3214.5	3223.8	3222.6
52.5°	2118.4	2128.8	2102.2	2267.4	2416.4	2616.2	2801.0	2966.2	3075.9	3089.8	3092.1
55°	1950.9	1955.5	1934.7	2093.0	2237.3	2446.4	2658.9	2819.5	2929.2	2940.8	2947.7
57.5°	1783.4	1784.6	1767.2	1918.5	2057.2	2270.8	2493.8	2662.4	2766.4	2777.9	2788.3
60°	1617.1	1615.9	1596.3	1743.0	1875.8	2087.2	2319.3	2486.8	2587.3	2597.7	2611.6
62.5°	1451.9	1448.4	1431.1	1566.3	1691.0	1900.1	2133.4	2295.1	2391.0	2397.9	2416.4
65°	1287.9	1284.4	1268.2	1393.0	1506.2	1706.0	1934.7	2088.3	2175.0	2184.2	2180.7
67.5°	1126.2	1119.2	1106.5	1218.6	1321.4	1506.2	1725.7	1872.3	1944.0	1952.0	1974.0
70°	964.5	956.4	927.5	1046.5	1136.6	1301.7	1506.2	1636.7	1696.8	1704.9	1701.4
72.5°	805.1	797.0	765.8	875.5	951.8	1096.1	1278.6	1387.2	1439.2	1446.1	1446.1
75°	650.3	645.7	626.0	709.2	772.7	890.5	1045.3	1135.4	1175.8	1183.9	1181.6
77.5°	501.3	497.8	478.2	549.8	599.5	687.3	812.0	882.5	912.5	921.7	941.4
80°	359.2	358.1	326.9	397.3	419.3	493.2	584.5	638.7	654.9	667.6	681.5
82.5°	229.9	231.0	199.8	259.9	269.1	316.5	373.1	406.6	418.1	428.5	438.9
85°	112.0	116.7	99.3	137.5	138.6	162.9	187.1	199.8	204.4	212.5	221.8
87.5°	28.9	33.5	18.5	39.3	34.7	45.0	52.0	55.4	54.3	60.1	63.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7
2.5°	4846.6	4883.6	4865.1	4925.2	4948.3	4911.3	4976.0	4977.1	4930.9	4985.2	5015.2
5°	4771.5	4809.6	4798.1	4860.5	4889.3	4857.0	4935.5	4950.6	4905.5	4966.7	5015.2
7.5°	4695.3	4740.3	4725.3	4788.9	4823.5	4798.1	4882.4	4906.7	4872.0	4939.0	5003.7
10°	4629.5	4667.6	4651.4	4718.4	4748.4	4727.6	4810.8	4855.8	4823.5	4905.5	4982.9
12.5°	4564.8	4596.0	4577.5	4632.9	4661.8	4635.2	4736.9	4778.5	4755.4	4840.8	4940.2
15°	4481.6	4516.3	4490.9	4540.5	4562.5	4539.4	4622.5	4694.1	4665.3	4758.8	4868.6
17.5°	4418.1	4437.7	4403.1	4442.3	4455.0	4423.9	4508.2	4578.6	4557.8	4659.5	4786.5
20°	4347.6	4363.8	4315.3	4337.2	4336.1	4296.8	4374.2	4443.5	4429.6	4541.7	4686.1
22.5°	4269.1	4277.2	4220.6	4225.2	4222.9	4158.2	4227.5	4298.0	4292.2	4405.4	4567.1
25°	4185.9	4187.1	4114.3	4112.0	4086.6	4010.3	4071.6	4151.3	4133.9	4256.4	4426.2
27.5°	4103.9	4092.4	4004.6	3983.8	3943.4	3852.1	3906.4	3978.0	3967.6	4087.7	4276.0
30°	4016.1	4001.1	3893.7	3855.6	3796.7	3691.6	3736.6	3803.6	3809.4	3914.5	4112.0
32.5°	3933.0	3894.8	3775.9	3720.4	3646.5	3524.1	3548.3	3616.5	3625.7	3732.0	3935.3
35°	3825.5	3800.1	3653.4	3558.7	3486.0	3352.0	3377.4	3424.7	3438.6	3542.6	3749.3
37.5°	3723.9	3683.5	3527.5	3412.0	3318.5	3177.6	3184.5	3233.0	3246.9	3352.0	3556.4
40°	3618.8	3561.0	3393.5	3258.4	3151.0	3003.1	2995.1	3045.9	3056.3	3159.1	3343.9
42.5°	3506.7	3437.4	3249.2	3101.3	2977.7	2827.6	2811.4	2855.3	2866.8	2967.3	3148.7
45°	3393.5	3310.4	3101.3	2939.6	2804.5	2650.8	2634.7	2668.2	2685.5	2780.2	2954.6
47.5°	3273.4	3176.4	2948.9	2768.7	2628.9	2475.3	2455.6	2489.1	2503.0	2596.6	2761.7
50°	3147.5	3029.7	2791.8	2593.1	2454.5	2303.2	2274.3	2313.6	2326.3	2414.1	2575.8
52.5°	3008.9	2878.4	2624.3	2416.4	2277.8	2133.4	2098.7	2136.9	2151.9	2237.3	2386.3
55°	2862.2	2721.3	2455.6	2253.5	2103.4	1962.4	1933.6	1948.6	1980.9	2061.8	2200.4
57.5°	2697.1	2557.3	2277.8	2072.2	1927.8	1792.6	1768.4	1782.2	1812.3	1890.8	2015.6
60°	2521.5	2373.6	2096.4	1890.8	1751.1	1622.9	1600.9	1613.6	1646.0	1717.6	1833.1
62.5°	2348.2	2181.9	1909.3	1704.9	1577.8	1458.8	1453.1	1448.4	1478.5	1547.8	1649.4
65°	2138.0	1978.6	1714.1	1520.1	1404.5	1297.1	1274.0	1284.4	1313.3	1376.8	1483.1
67.5°	1912.8	1768.4	1514.3	1335.2	1232.4	1136.6	1116.9	1121.6	1151.6	1207.0	1299.4
70°	1673.7	1546.6	1309.8	1149.3	1062.6	972.6	959.9	961.0	989.9	1038.4	1119.2
72.5°	1423.0	1308.7	1103.1	965.6	894.0	829.3	817.8	803.9	830.5	872.1	941.4
75°	1167.8	1067.3	897.5	785.4	728.8	674.6	664.2	650.3	676.9	712.7	767.0
77.5°	910.2	829.3	697.7	611.0	567.1	526.7	517.5	502.4	529.0	555.6	598.3
80°	658.4	599.5	520.9	429.7	414.7	388.1	378.9	362.7	388.1	405.4	437.8
82.5°	425.1	385.8	340.7	277.2	274.9	255.3	250.6	232.2	255.3	265.7	289.9
85°	214.8	196.4	184.8	140.9	145.5	132.8	131.7	112.0	130.5	135.1	149.0
87.5°	61.2	64.7	57.8	34.7	43.9	41.6	41.6	30.0	41.6	41.6	47.4
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: P838083

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4STD-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7	4951.7
2.5°	4956.3	4976.0	4980.6	4979.4	4992.1	5061.4	5038.3	5061.4
5°	4967.9	5011.8	5023.3	5039.5	5060.3	5138.8	5113.4	5141.1
7.5°	4974.8	5040.7	5066.1	5097.3	5130.8	5218.5	5197.7	5225.5
10°	4974.8	5060.3	5097.3	5149.2	5194.3	5295.9	5276.3	5308.6
12.5°	4954.0	5063.8	5115.7	5188.5	5246.3	5356.0	5347.9	5371.0
15°	4911.3	5046.4	5118.0	5211.6	5283.2	5405.7	5402.2	5429.9
17.5°	4853.5	5016.4	5103.0	5220.8	5310.9	5448.4	5456.5	5471.5
20°	4780.8	4959.8	5073.0	5217.4	5330.6	5481.9	5492.3	5513.1
22.5°	4684.9	4891.7	5028.0	5202.4	5332.9	5495.7	5514.2	5533.9
25°	4571.7	4809.6	4969.0	5173.5	5321.3	5494.6	5520.0	5537.3
27.5°	4442.3	4703.4	4894.0	5127.3	5289.0	5476.1	5507.3	5528.1
30°	4292.2	4590.2	4808.5	5067.2	5245.1	5441.5	5475.0	5495.7
32.5°	4137.4	4465.4	4706.8	4989.8	5181.6	5386.0	5414.9	5431.1
35°	3968.8	4314.1	4584.4	4890.5	5099.6	5297.1	5319.0	5336.4
37.5°	3785.1	4150.1	4444.6	4778.5	4984.1	5173.5	5193.1	5212.8
40°	3595.7	3978.0	4287.6	4641.0	4846.6	5022.2	5043.0	5056.8
42.5°	3405.1	3787.4	4120.1	4479.3	4683.7	4852.4	4865.1	4878.9
45°	3212.2	3589.9	3931.8	4300.3	4502.4	4660.6	4665.3	4676.8
47.5°	3015.8	3385.5	3725.0	4095.8	4295.6	4440.0	4444.6	4453.9
50°	2818.3	3181.0	3504.4	3875.2	4070.4	4222.9	4202.1	4211.3
52.5°	2624.3	2966.2	3296.5	3637.3	3830.2	3965.3	3971.1	3952.6
55°	2433.7	2756.0	3059.7	3387.8	3571.4	3676.5	3673.1	3680.0
57.5°	2240.8	2543.4	2821.8	3122.1	3301.1	3400.5	3421.3	3397.0
60°	2044.4	2328.6	2578.1	2849.5	3022.8	3105.9	3130.2	3107.1
62.5°	1849.2	2110.3	2336.7	2573.5	2734.0	2836.8	2834.5	2809.1
65°	1654.0	1890.8	2093.0	2293.9	2433.7	2536.5	2531.9	2508.8
67.5°	1473.8	1669.1	1850.4	2013.3	2134.5	2205.0	2229.3	2201.5
70°	1275.2	1443.8	1603.2	1733.7	1834.2	1897.8	1920.9	1896.6
72.5°	1076.5	1219.7	1331.8	1457.7	1535.1	1588.2	1612.5	1589.4
75°	880.2	998.0	1089.2	1187.4	1241.7	1286.7	1314.5	1291.4
77.5°	689.6	780.8	853.6	925.2	987.6	998.0	1022.2	1007.2
80°	508.2	574.1	627.2	674.6	719.6	724.2	743.9	734.6
82.5°	338.4	382.3	396.2	445.9	474.7	470.1	489.7	482.8
85°	179.0	205.6	229.9	244.9	261.0	246.0	263.4	256.4
87.5°	60.1	63.5	55.4	78.5	86.6	73.9	84.3	80.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)