

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: P838069

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5HI-27-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838069
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-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

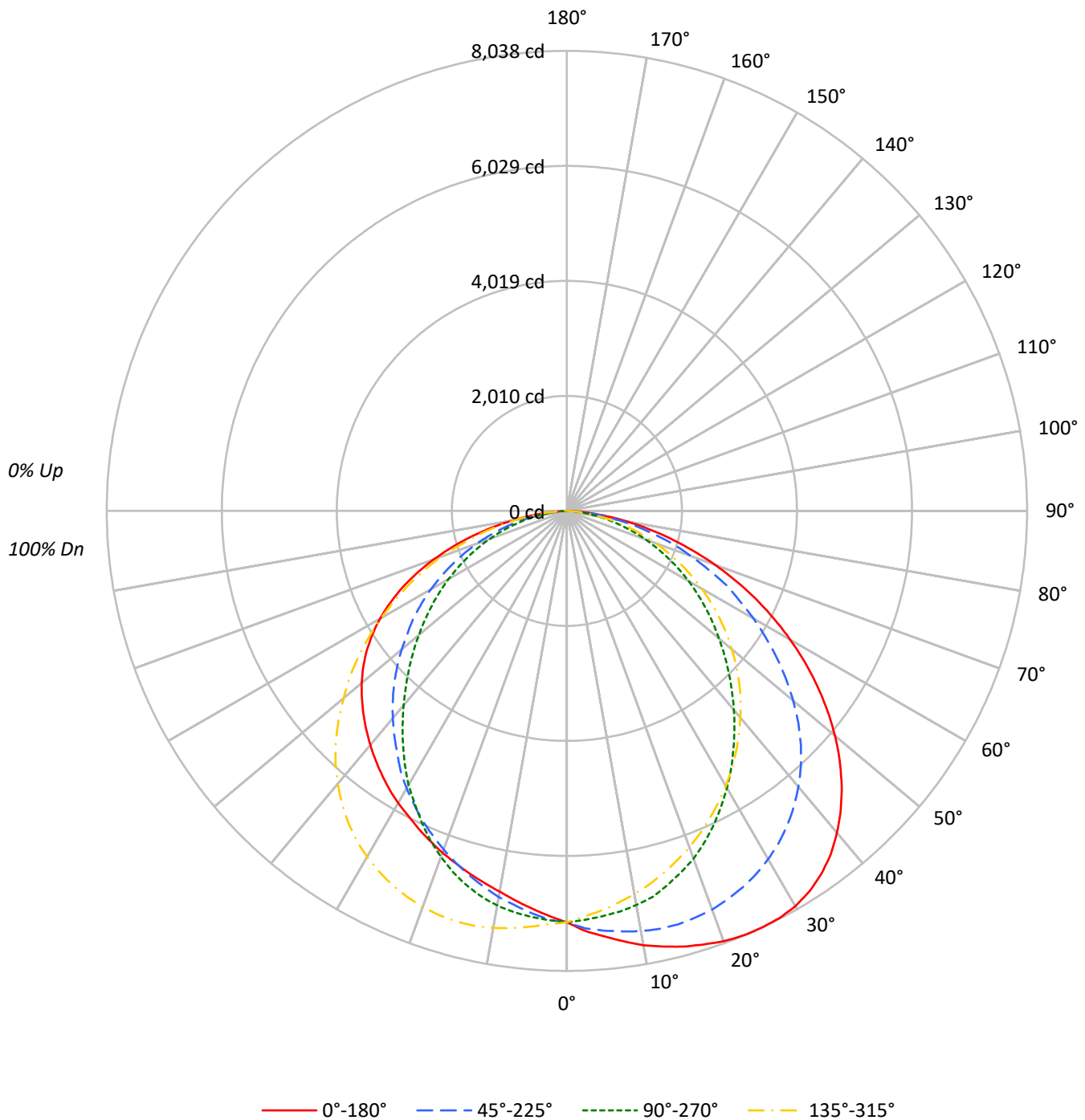
Lumens per Lamp: N/A
Luminaire Lumens: 21089.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	9672	9672	9672	9672
5°	10080	9602	9421	9618
10°	10529	9553	9230	9566
15°	10980	9431	9139	9433
20°	11459	9260	9099	9207
25°	11933	9001	9098	8909
30°	12395	8688	9159	8591
35°	12724	8331	9251	8199
40°	12893	7972	9380	7792
45°	12918	7609	9562	7418
50°	12796	7262	9796	7069
55°	12531	6938	10014	6746
60°	12137	6601	10148	6430
65°	11594	6214	10095	6069
70°	10831	5759	9736	5653
75°	9745	5134	8934	5108
80°	8263	4300	7509	4365
85°	5746	2847	4763	2925

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.5	3.2
10°-20°	1976.3	9.4
20°-30°	3028.7	14.4
30°-40°	3682.7	17.5
40°-50°	3828.4	18.2
50°-60°	3458.2	16.4
60°-70°	2629.1	12.5
70°-80°	1465.7	7.0
80°-90°	337.5	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°	5687.4	27.0
0°-40°	9370.1	44.4
0°-60°	16656.7	79.0
0°-90°	21089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21089.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7188	7188	7188	7188	7188	
5°	7463	7109	6975	7121	7463	720
15°	7882	6771	6561	6772	7882	2235
25°	8038	6063	6128	6001	8038	3713
35°	7746	5072	5632	4992	7746	4838
45°	6789	3999	5025	3898	6789	5227
55°	5342	2958	4269	2876	5342	4769
65°	3642	1952	3171	1906	3642	3599
75°	1875	988	1719	983	1875	1991
85°	372	184	308	190	372	469
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°	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1
2.5°	7347.4	7240.1	7241.8	7335.7	7263.6	7298.8	7198.2	7236.7	7225.0	7233.4	7151.2
5°	7463.1	7347.4	7345.7	7426.2	7345.7	7360.8	7233.4	7258.5	7221.7	7198.2	7109.3
7.5°	7585.5	7469.8	7458.1	7528.5	7422.9	7411.1	7270.3	7270.3	7203.2	7144.5	7060.7
10°	7706.2	7587.2	7572.1	7625.7	7495.0	7456.4	7285.4	7258.5	7169.7	7082.5	6991.9
12.5°	7796.8	7676.0	7664.3	7697.8	7550.3	7479.9	7285.4	7233.4	7102.6	6980.2	6909.8
15°	7882.3	7758.2	7726.3	7743.1	7573.8	7479.9	7261.9	7181.4	7013.7	6852.8	6770.6
17.5°	7942.6	7823.6	7791.7	7790.1	7585.5	7451.4	7211.6	7100.9	6899.7	6705.2	6623.1
20°	8003.0	7884.0	7843.7	7813.5	7582.1	7412.8	7137.8	6988.6	6753.8	6535.9	6467.1
22.5°	8033.2	7910.8	7867.2	7821.9	7560.4	7342.4	7047.3	6857.8	6589.5	6329.6	6272.6
25°	8038.2	7912.5	7865.5	7800.1	7516.8	7258.5	6929.9	6700.2	6400.1	6111.7	6063.0
27.5°	8024.8	7887.3	7840.4	7761.6	7451.4	7156.3	6790.7	6520.8	6198.9	5880.3	5828.3
30°	7977.9	7838.7	7793.4	7691.1	7359.1	7030.5	6638.2	6321.3	5975.8	5637.1	5591.9
32.5°	7884.0	7748.1	7711.3	7609.0	7258.5	6884.6	6460.4	6106.6	5729.4	5405.8	5338.7
35°	7746.5	7610.7	7587.2	7479.9	7117.7	6710.3	6265.9	5871.9	5467.8	5137.5	5072.1
37.5°	7567.1	7453.0	7417.8	7312.2	6951.7	6512.4	6042.9	5617.0	5201.2	4845.7	4805.5
40°	7340.7	7233.4	7206.6	7112.7	6758.9	6292.7	5801.5	5353.8	4926.2	4595.9	4538.9
42.5°	7082.5	6981.9	6966.8	6869.5	6520.8	6049.6	5539.9	5080.5	4639.5	4320.9	4263.9
45°	6789.1	6691.8	6688.5	6596.2	6260.9	5779.7	5264.9	4803.8	4359.5	4029.2	3999.0
47.5°	6465.4	6378.3	6378.3	6292.7	5970.8	5482.9	4981.5	4515.4	4077.8	3786.0	3732.4
50°	6113.3	6031.2	6006.0	5964.1	5650.6	5159.3	4683.1	4233.7	3799.5	3521.1	3469.1
52.5°	5737.8	5667.3	5684.1	5607.0	5303.5	4822.3	4381.3	3916.8	3519.4	3266.3	3214.3
55°	5342.0	5241.4	5256.5	5228.0	4941.3	4475.2	4042.6	3655.3	3244.5	3006.4	2957.7
57.5°	4931.2	4800.5	4854.1	4837.4	4555.7	4119.7	3732.4	3358.5	2971.2	2751.5	2704.6
60°	4510.4	4384.6	4440.0	4424.9	4160.0	3764.2	3412.1	3065.1	2699.5	2500.0	2453.0
62.5°	4077.8	3962.1	4012.4	4000.7	3757.5	3400.4	3093.6	2775.0	2426.2	2246.8	2203.2
65°	3641.8	3531.2	3576.5	3568.1	3343.4	3071.8	2766.6	2474.8	2151.2	1995.3	1951.7
67.5°	3195.8	3093.6	3135.5	3135.5	2929.2	2669.3	2438.0	2171.4	1881.3	1747.1	1706.9
70°	2753.2	2657.6	2694.5	2691.1	2516.8	2305.5	2106.0	1867.9	1608.0	1497.3	1463.8
72.5°	2307.2	2223.3	2256.9	2253.5	2107.6	1971.8	1774.0	1567.7	1341.4	1252.5	1222.3
75°	1874.6	1795.8	1827.6	1824.3	1705.2	1577.8	1445.3	1274.3	1079.8	1017.8	987.6
77.5°	1462.1	1381.6	1408.4	1408.4	1321.3	1229.0	1123.4	990.9	853.5	786.4	764.6
80°	1066.4	1027.8	1014.4	1016.1	957.4	897.0	843.4	716.0	615.4	570.1	555.0
82.5°	700.9	669.0	655.6	659.0	625.4	588.5	555.0	466.1	399.1	372.2	363.8
85°	372.2	348.8	337.0	345.4	338.7	318.6	301.8	241.4	199.5	189.5	184.4
87.5°	117.4	102.3	93.9	124.1	105.6	93.9	90.5	72.1	55.3	55.3	53.7
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°	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1
2.5°	7178.1	7178.1	7112.7	7097.6	7090.9	7099.3	7033.9	7022.1	7116.0	7084.2	7012.1
5°	7121.0	7117.7	7025.5	7008.7	7008.7	6998.6	6924.9	6908.1	7002.0	6975.2	6896.4
7.5°	7050.6	7040.6	6931.6	6919.8	6903.1	6896.4	6814.2	6802.5	6883.0	6866.2	6792.4
10°	6965.1	6955.1	6825.9	6817.6	6799.1	6785.7	6708.6	6700.2	6782.4	6755.5	6696.8
12.5°	6852.8	6834.3	6701.9	6693.5	6678.4	6673.4	6597.9	6594.6	6685.1	6658.3	6596.2
15°	6705.2	6690.1	6542.6	6545.9	6547.6	6547.6	6487.2	6483.9	6572.8	6561.0	6494.0
17.5°	6542.6	6522.5	6381.6	6391.7	6403.4	6416.8	6369.9	6378.3	6472.2	6457.1	6396.7
20°	6358.1	6338.0	6200.5	6229.0	6254.2	6281.0	6250.8	6274.3	6361.5	6354.8	6309.5
22.5°	6151.9	6131.8	6004.4	6047.9	6089.9	6140.2	6126.8	6153.6	6245.8	6244.1	6203.9
25°	5900.4	5905.4	5793.1	5846.7	5917.2	5987.6	5992.6	6036.2	6138.5	6128.4	6091.5
27.5°	5665.7	5672.4	5553.3	5643.9	5737.8	5828.3	5850.1	5910.5	6014.4	6006.0	5974.2
30°	5419.2	5427.6	5311.9	5435.9	5550.0	5660.6	5707.6	5789.7	5895.4	5895.4	5861.8
32.5°	5162.6	5177.7	5057.0	5223.0	5355.5	5484.6	5566.7	5652.2	5773.0	5769.6	5741.1
35°	4899.4	4916.2	4805.5	5016.8	5149.2	5306.8	5409.1	5523.1	5630.4	5632.1	5610.3
37.5°	4631.1	4651.2	4550.6	4782.0	4932.9	5119.0	5249.8	5363.8	5482.9	5489.6	5469.5
40°	4364.5	4386.3	4299.1	4522.1	4713.3	4921.2	5072.1	5206.2	5337.0	5340.4	5327.0
42.5°	4097.9	4121.4	4056.0	4274.0	4490.3	4713.3	4891.0	5043.6	5177.7	5186.1	5171.0
45°	3838.0	3858.1	3811.2	4049.3	4257.2	4500.3	4704.9	4877.6	5013.4	5025.1	5020.1
47.5°	3579.8	3598.3	3556.3	3774.3	4014.1	4272.3	4508.7	4699.9	4844.1	4857.5	4854.1
50°	3326.6	3341.7	3296.4	3524.5	3762.6	4037.6	4284.0	4505.4	4666.3	4679.7	4678.1
52.5°	3075.1	3090.2	3051.6	3291.4	3507.7	3797.8	4066.1	4305.8	4465.1	4485.2	4488.6
55°	2832.0	2838.7	2808.5	3038.2	3247.8	3551.3	3859.8	4092.9	4252.2	4268.9	4279.0
57.5°	2588.9	2590.5	2565.4	2785.0	2986.2	3296.4	3620.0	3864.9	4015.8	4032.5	4047.6
60°	2347.4	2345.7	2317.2	2530.2	2723.0	3029.8	3366.9	3610.0	3755.9	3771.0	3791.1
62.5°	2107.6	2102.6	2077.5	2273.6	2454.7	2758.2	3096.9	3331.7	3470.8	3480.9	3507.7
65°	1869.5	1864.5	1841.0	2022.1	2186.4	2476.5	2808.5	3031.5	3157.3	3170.7	3165.7
67.5°	1634.8	1624.7	1606.3	1768.9	1918.2	2186.4	2505.0	2718.0	2821.9	2833.7	2865.5
70°	1400.1	1388.3	1346.4	1519.1	1649.9	1889.7	2186.4	2375.9	2463.1	2474.8	2469.8
72.5°	1168.7	1156.9	1111.7	1271.0	1381.6	1591.2	1856.1	2013.7	2089.2	2099.3	2099.3
75°	944.0	937.3	908.8	1029.5	1121.7	1292.8	1517.4	1648.2	1706.9	1718.6	1715.3
77.5°	727.7	722.7	694.2	798.1	870.2	997.7	1178.7	1281.0	1324.6	1338.0	1366.5
80°	521.5	519.8	474.5	576.8	608.7	716.0	848.4	927.2	950.7	969.1	989.3
82.5°	333.7	335.3	290.1	377.3	390.7	459.4	541.6	590.2	607.0	622.1	637.2
85°	162.6	169.3	144.2	199.5	201.2	236.4	271.6	290.1	296.8	308.5	321.9
87.5°	41.9	48.6	26.8	57.0	50.3	65.4	75.5	80.5	78.8	87.2	92.2
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°	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1
2.5°	7035.5	7089.2	7062.4	7149.6	7183.1	7129.4	7223.3	7225.0	7157.9	7236.7	7280.3
5°	6926.5	6981.9	6965.1	7055.7	7097.6	7050.6	7164.6	7186.4	7121.0	7209.9	7280.3
7.5°	6815.9	6881.3	6859.5	6951.7	7002.0	6965.1	7087.5	7122.7	7072.4	7169.7	7263.6
10°	6720.3	6775.6	6752.2	6849.4	6893.0	6862.8	6983.6	7048.9	7002.0	7121.0	7233.4
12.5°	6626.4	6671.7	6644.9	6725.3	6767.3	6728.7	6876.2	6936.6	6903.1	7027.2	7171.4
15°	6505.7	6556.0	6519.1	6591.2	6623.1	6589.5	6710.3	6814.2	6772.3	6908.1	7067.4
17.5°	6413.5	6442.0	6391.7	6448.7	6467.1	6421.9	6544.3	6646.5	6616.4	6763.9	6948.3
20°	6311.2	6334.7	6264.2	6296.1	6294.4	6237.4	6349.8	6450.4	6430.2	6592.9	6802.5
22.5°	6197.2	6208.9	6126.8	6133.5	6130.1	6036.2	6136.8	6239.1	6230.7	6395.0	6629.8
25°	6076.4	6078.1	5972.5	5969.1	5932.3	5821.6	5910.5	6026.1	6001.0	6178.7	6425.2
27.5°	5957.4	5940.6	5813.2	5783.0	5724.3	5591.9	5670.7	5774.6	5759.5	5933.9	6207.2
30°	5830.0	5808.2	5652.2	5596.9	5511.4	5358.8	5424.2	5521.5	5529.8	5682.4	5969.1
32.5°	5709.2	5653.9	5481.2	5400.7	5293.4	5115.7	5150.9	5249.8	5263.2	5417.5	5712.6
35°	5553.3	5516.4	5303.5	5166.0	5060.4	4865.9	4902.7	4971.5	4991.6	5142.5	5442.6
37.5°	5405.8	5347.1	5120.7	4953.0	4817.2	4612.7	4622.7	4693.2	4713.3	4865.9	5162.6
40°	5253.2	5169.3	4926.2	4730.0	4574.1	4359.5	4347.7	4421.5	4436.6	4585.8	4854.1
42.5°	5090.5	4989.9	4716.6	4502.0	4322.6	4104.6	4081.1	4144.9	4161.6	4307.5	4570.8
45°	4926.2	4805.5	4502.0	4267.3	4071.1	3848.1	3824.6	3873.2	3898.4	4035.9	4289.1
47.5°	4751.8	4611.0	4280.7	4019.1	3816.2	3593.2	3564.7	3613.3	3633.5	3769.3	4009.0
50°	4569.1	4398.0	4052.6	3764.2	3563.0	3343.4	3301.5	3358.5	3376.9	3504.4	3739.1
52.5°	4367.9	4178.4	3809.5	3507.7	3306.5	3096.9	3046.6	3101.9	3123.7	3247.8	3464.1
55°	4154.9	3950.4	3564.7	3271.3	3053.3	2848.8	2806.8	2828.6	2875.6	2993.0	3194.2
57.5°	3915.2	3712.3	3306.5	3008.0	2798.5	2602.3	2567.1	2587.2	2630.8	2744.8	2925.9
60°	3660.3	3445.7	3043.3	2744.8	2541.9	2355.8	2323.9	2342.4	2389.3	2493.3	2661.0
62.5°	3408.8	3167.3	2771.6	2474.8	2290.4	2117.7	2109.3	2102.6	2146.2	2246.8	2394.4
65°	3103.6	2872.2	2488.3	2206.6	2038.9	1883.0	1849.4	1864.5	1906.4	1998.7	2152.9
67.5°	2776.7	2567.1	2198.2	1938.3	1789.1	1649.9	1621.4	1628.1	1671.7	1752.2	1886.3
70°	2429.6	2245.1	1901.4	1668.3	1542.6	1411.8	1393.4	1395.0	1437.0	1507.4	1624.7
72.5°	2065.7	1899.7	1601.3	1401.7	1297.8	1203.9	1187.1	1167.0	1205.6	1265.9	1366.5
75°	1695.2	1549.3	1302.8	1140.2	1058.0	979.2	964.1	944.0	982.6	1034.5	1113.3
77.5°	1321.3	1203.9	1012.7	887.0	823.3	764.6	751.2	729.4	767.9	806.5	868.5
80°	955.7	870.2	756.2	623.7	601.9	563.4	550.0	526.5	563.4	588.5	635.5
82.5°	617.0	560.0	494.6	402.4	399.1	370.6	363.8	337.0	370.6	385.6	420.9
85°	311.9	285.0	268.3	204.6	211.3	192.8	191.1	162.6	189.5	196.2	216.3
87.5°	88.9	93.9	83.8	50.3	63.7	60.4	60.4	43.6	60.4	60.4	68.7
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: P838069

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1	7188.1
2.5°	7194.8	7223.3	7230.0	7228.4	7246.8	7347.4	7313.9	7347.4
5°	7211.6	7275.3	7292.1	7315.5	7345.7	7459.7	7422.9	7463.1
7.5°	7221.7	7317.2	7354.1	7399.4	7448.0	7575.4	7545.3	7585.5
10°	7221.7	7345.7	7399.4	7474.8	7540.2	7687.8	7659.3	7706.2
12.5°	7191.5	7350.8	7426.2	7531.8	7615.7	7775.0	7763.2	7796.8
15°	7129.4	7325.6	7429.6	7565.4	7669.3	7847.1	7842.0	7882.3
17.5°	7045.6	7282.0	7407.8	7578.8	7709.6	7909.1	7920.8	7942.6
20°	6940.0	7199.9	7364.2	7573.8	7738.1	7957.7	7972.8	8003.0
22.5°	6800.8	7100.9	7298.8	7552.0	7741.4	7977.9	8004.7	8033.2
25°	6636.5	6981.9	7213.3	7510.0	7724.7	7976.2	8013.1	8038.2
27.5°	6448.7	6827.6	7104.3	7443.0	7677.7	7949.4	7994.6	8024.8
30°	6230.7	6663.3	6980.2	7355.8	7614.0	7899.0	7947.7	7977.9
32.5°	6006.0	6482.2	6832.7	7243.5	7521.8	7818.6	7860.5	7884.0
35°	5761.2	6262.6	6654.9	7099.3	7402.7	7689.5	7721.3	7746.5
37.5°	5494.6	6024.5	6452.0	6936.6	7235.1	7510.0	7538.6	7567.1
40°	5219.6	5774.6	6224.0	6737.1	7035.5	7290.4	7320.6	7340.7
42.5°	4943.0	5498.0	5980.9	6502.3	6799.1	7043.9	7062.4	7082.5
45°	4663.0	5211.3	5707.6	6242.4	6535.9	6765.6	6772.3	6789.1
47.5°	4377.9	4914.5	5407.4	5945.7	6235.7	6445.3	6452.0	6465.4
50°	4091.2	4617.7	5087.2	5625.4	5908.8	6130.1	6099.9	6113.3
52.5°	3809.5	4305.8	4785.4	5280.0	5560.0	5756.2	5764.6	5737.8
55°	3532.9	4000.7	4441.6	4917.8	5184.4	5337.0	5332.0	5342.0
57.5°	3252.8	3692.1	4096.2	4532.2	4792.1	4936.3	4966.5	4931.2
60°	2967.8	3380.3	3742.4	4136.5	4388.0	4508.7	4543.9	4510.4
62.5°	2684.4	3063.4	3392.0	3735.7	3968.8	4118.0	4114.7	4077.8
65°	2401.1	2744.8	3038.2	3330.0	3532.9	3682.1	3675.4	3641.8
67.5°	2139.5	2422.9	2686.1	2922.5	3098.6	3200.9	3236.1	3195.8
70°	1851.1	2095.9	2327.3	2516.8	2662.6	2754.9	2788.4	2753.2
72.5°	1562.7	1770.6	1933.3	2116.0	2228.4	2305.5	2340.7	2307.2
75°	1277.7	1448.7	1581.2	1723.7	1802.5	1867.9	1908.1	1874.6
77.5°	1001.0	1133.5	1239.1	1343.1	1433.6	1448.7	1483.9	1462.1
80°	737.8	833.3	910.5	979.2	1044.6	1051.3	1079.8	1066.4
82.5°	491.3	555.0	575.1	647.2	689.1	682.4	710.9	700.9
85°	259.9	298.5	333.7	355.5	378.9	357.1	382.3	372.2
87.5°	87.2	92.2	80.5	114.0	125.8	107.3	122.4	117.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)