

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: P838216

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6HI-35-120-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: P838216
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-LD4-6HI-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

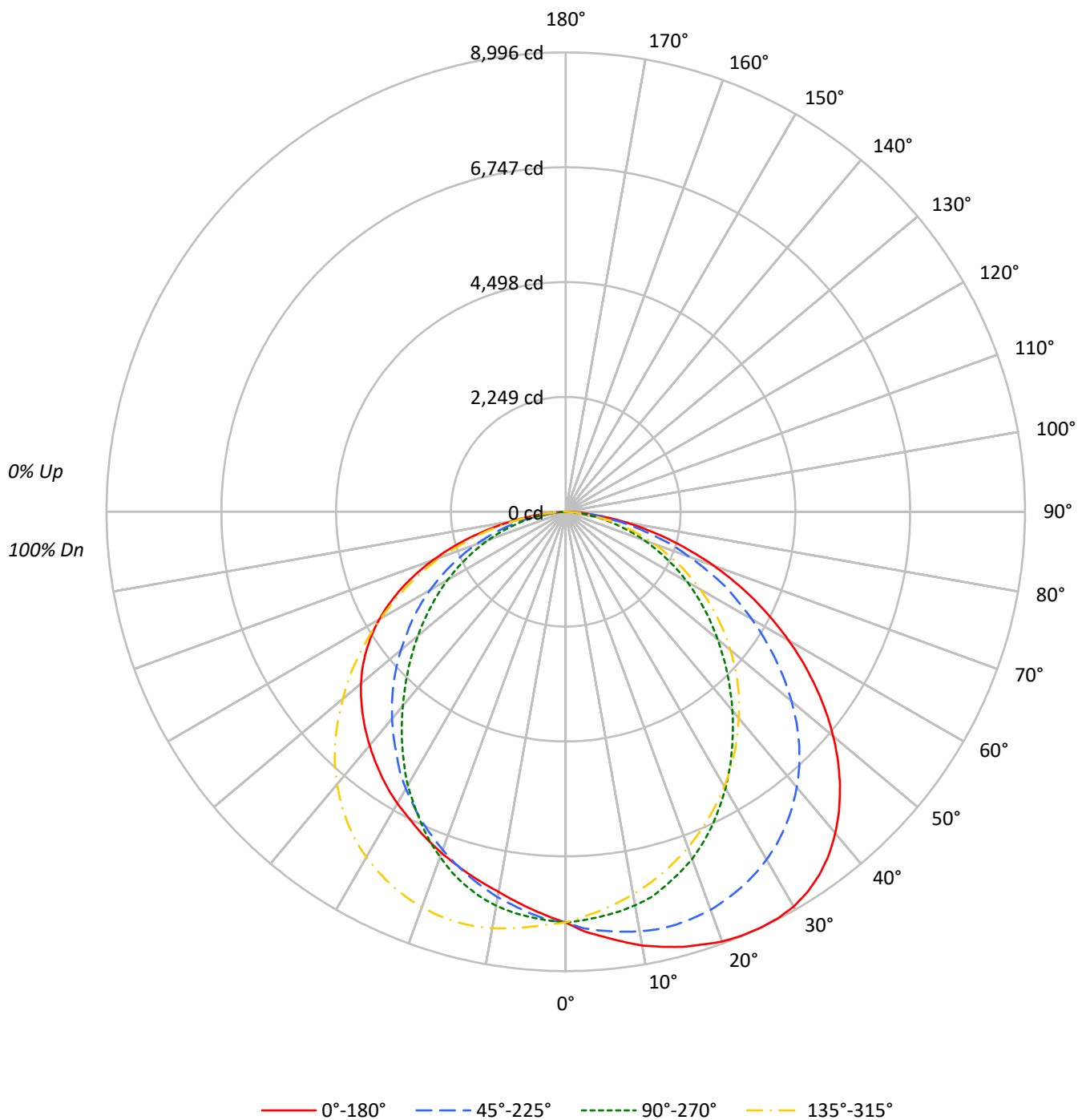
Lumens per Lamp: N/A
Luminaire Lumens: 23600.4 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10823	10823	10823	10823
5°	11280	10745	10543	10763
10°	11782	10690	10329	10706
15°	12287	10554	10228	10557
20°	12824	10363	10183	10304
25°	13355	10073	10182	9970
30°	13871	9722	10250	9615
35°	14239	9323	10353	9175
40°	14429	8922	10497	8721
45°	14457	8515	10701	8301
50°	14320	8126	10962	7910
55°	14024	7765	11207	7549
60°	13583	7387	11356	7195
65°	12975	6954	11297	6792
70°	12120	6444	10895	6326
75°	10906	5745	9998	5716
80°	9247	4813	8404	4885
85°	6431	3186	5331	3273

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.7	3.2
10°-20°	2211.6	9.4
20°-30°	3389.4	14.4
30°-40°	4121.3	17.5
40°-50°	4284.3	18.2
50°-60°	3870.0	16.4
60°-70°	2942.2	12.5
70°-80°	1640.3	7.0
80°-90°	377.6	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°	6364.7	27.0
0°-40°	10486.0	44.4
0°-60°	18640.3	79.0
0°-90°	23600.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23600.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8044	8044	8044	8044	8044	
5°	8352	7956	7806	7969	8352	805
15°	8821	7577	7342	7579	8821	2501
25°	8996	6785	6858	6716	8996	4155
35°	8669	5676	6303	5586	8669	5414
45°	7598	4475	5624	4363	7598	5849
55°	5978	3310	4777	3218	5978	5337
65°	4076	2184	3548	2134	4076	4027
75°	2098	1105	1923	1100	2098	2228
85°	417	206	345	212	417	524
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°	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1
2.5°	8222.4	8102.3	8104.2	8209.3	8128.6	8168.0	8055.4	8098.5	8085.4	8094.8	8002.8
5°	8351.9	8222.4	8220.5	8310.6	8220.5	8237.4	8094.8	8122.9	8081.7	8055.4	7955.9
7.5°	8488.8	8359.4	8346.2	8425.0	8306.8	8293.7	8136.1	8136.1	8061.0	7995.3	7901.5
10°	8623.9	8490.7	8473.8	8533.9	8387.5	8344.4	8153.0	8122.9	8023.5	7925.9	7824.6
12.5°	8725.3	8590.2	8577.0	8614.6	8449.4	8370.6	8153.0	8094.8	7948.4	7811.5	7732.6
15°	8821.0	8682.1	8646.5	8665.2	8475.7	8370.6	8126.7	8036.6	7849.0	7668.8	7576.9
17.5°	8888.5	8755.3	8719.6	8717.8	8488.8	8338.7	8070.4	7946.6	7721.4	7503.7	7411.8
20°	8956.1	8822.8	8777.8	8744.0	8485.1	8295.6	7987.8	7820.8	7558.1	7314.2	7237.3
22.5°	8989.8	8852.9	8804.1	8753.4	8460.7	8216.8	7886.5	7674.5	7374.3	7083.4	7019.6
25°	8995.5	8854.7	8802.2	8729.0	8411.9	8122.9	7755.2	7498.1	7162.2	6839.5	6785.1
27.5°	8980.5	8826.6	8774.0	8685.9	8338.7	8008.5	7599.4	7297.3	6937.1	6580.5	6522.4
30°	8927.9	8772.2	8721.5	8607.0	8235.5	7867.7	7428.7	7074.0	6687.5	6308.5	6257.8
32.5°	8822.8	8670.8	8629.6	8515.1	8122.9	7704.5	7229.8	6833.8	6411.7	6049.5	5974.5
35°	8669.0	8517.0	8490.7	8370.6	7965.3	7509.4	7012.1	6571.2	6118.9	5749.3	5676.1
37.5°	8468.2	8340.6	8301.2	8183.0	7779.6	7287.9	6762.5	6285.9	5820.6	5422.8	5377.8
40°	8214.9	8094.8	8064.8	7959.7	7563.8	7042.1	6492.3	5991.3	5512.9	5143.2	5079.4
42.5°	7925.9	7813.3	7796.4	7687.6	7297.3	6770.1	6199.6	5685.5	5192.0	4835.5	4771.7
45°	7597.5	7488.7	7485.0	7381.8	7006.5	6468.0	5891.9	5375.9	4878.6	4509.0	4475.2
47.5°	7235.4	7137.8	7137.8	7042.1	6681.9	6135.8	5574.8	5053.1	4563.4	4236.9	4176.9
50°	6841.4	6749.4	6721.3	6674.4	6323.5	5773.7	5240.8	4737.9	4251.9	3940.4	3882.3
52.5°	6421.0	6342.2	6361.0	6274.7	5935.1	5396.5	4903.0	4383.3	3938.6	3655.2	3597.1
55°	5978.2	5865.6	5882.5	5850.6	5529.8	5008.1	4524.0	4090.6	3630.8	3364.4	3310.0
57.5°	5518.5	5372.1	5432.2	5413.4	5098.2	4610.3	4176.9	3758.4	3325.0	3079.2	3026.6
60°	5047.5	4906.8	4968.7	4951.8	4655.3	4212.5	3818.5	3430.1	3021.0	2797.7	2745.2
62.5°	4563.4	4433.9	4490.2	4477.1	4205.0	3805.3	3462.0	3105.4	2715.2	2514.4	2465.6
65°	4075.5	3951.7	4002.4	3993.0	3741.5	3437.6	3096.1	2769.6	2407.4	2232.9	2184.1
67.5°	3576.4	3462.0	3508.9	3508.9	3278.1	2987.2	2728.3	2429.9	2105.3	1955.2	1910.2
70°	3081.0	2974.1	3015.4	3011.6	2816.5	2580.1	2356.8	2090.3	1799.5	1675.6	1638.1
72.5°	2581.9	2488.1	2525.6	2521.9	2358.6	2206.6	1985.2	1754.4	1501.1	1401.7	1367.9
75°	2097.8	2009.6	2045.3	2041.5	1908.3	1765.7	1617.5	1426.1	1208.4	1139.0	1105.2
77.5°	1636.2	1546.2	1576.2	1576.2	1478.6	1375.4	1257.2	1109.0	955.1	880.0	855.6
80°	1193.4	1150.2	1135.2	1137.1	1071.4	1003.9	943.8	801.2	688.6	638.0	621.1
82.5°	784.3	748.7	733.7	737.4	699.9	658.6	621.1	521.6	446.6	416.6	407.2
85°	416.6	390.3	377.2	386.5	379.0	356.5	337.8	270.2	223.3	212.0	206.4
87.5°	131.3	114.5	105.1	138.9	118.2	105.1	101.3	80.7	61.9	61.9	60.0
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°	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1
2.5°	8032.9	8032.9	7959.7	7942.8	7935.3	7944.7	7871.5	7858.4	7963.4	7927.8	7847.1
5°	7969.1	7965.3	7862.1	7843.4	7843.4	7832.1	7749.5	7730.8	7835.8	7805.8	7717.6
7.5°	7890.3	7879.0	7757.0	7743.9	7725.1	7717.6	7625.7	7612.6	7702.6	7683.9	7601.3
10°	7794.6	7783.3	7638.8	7629.4	7608.8	7593.8	7507.5	7498.1	7590.0	7560.0	7494.3
12.5°	7668.8	7648.2	7500.0	7490.6	7473.7	7468.1	7383.6	7379.9	7481.2	7451.2	7381.8
15°	7503.7	7486.8	7321.7	7325.5	7327.3	7327.3	7259.8	7256.0	7355.5	7342.4	7267.3
17.5°	7321.7	7299.2	7141.6	7152.8	7166.0	7181.0	7128.4	7137.8	7242.9	7226.0	7158.5
20°	7115.3	7092.8	6938.9	6970.8	6999.0	7029.0	6995.2	7021.5	7119.1	7111.6	7060.9
22.5°	6884.5	6862.0	6719.4	6768.2	6815.1	6871.4	6856.4	6886.4	6989.6	6987.7	6942.7
25°	6603.1	6608.7	6483.0	6543.0	6621.8	6700.6	6706.3	6755.0	6869.5	6858.2	6817.0
27.5°	6340.4	6347.9	6214.6	6316.0	6421.0	6522.4	6546.8	6614.3	6730.6	6721.3	6685.6
30°	6064.5	6073.9	5944.4	6083.3	6210.9	6334.7	6387.3	6479.2	6597.4	6597.4	6559.9
32.5°	5777.4	5794.3	5659.2	5845.0	5993.2	6137.7	6229.6	6325.3	6460.4	6456.7	6424.8
35°	5482.8	5501.6	5377.8	5614.2	5762.4	5938.8	6053.3	6180.9	6301.0	6302.8	6278.4
37.5°	5182.6	5205.1	5092.5	5351.5	5520.4	5728.6	5875.0	6002.6	6135.8	6143.3	6120.8
40°	4884.3	4908.7	4811.1	5060.7	5274.6	5507.2	5676.1	5826.2	5972.6	5976.3	5961.3
42.5°	4585.9	4612.2	4539.0	4782.9	5025.0	5274.6	5473.5	5644.2	5794.3	5803.7	5786.8
45°	4295.1	4317.6	4265.1	4531.5	4764.2	5036.3	5265.2	5458.4	5610.4	5623.6	5617.9
47.5°	4006.1	4026.8	3979.8	4223.8	4492.1	4781.1	5045.6	5259.5	5420.9	5435.9	5432.2
50°	3722.8	3739.7	3689.0	3944.2	4210.6	4518.4	4794.2	5041.9	5222.0	5237.0	5235.2
52.5°	3441.3	3458.2	3415.0	3683.4	3925.4	4250.0	4550.3	4818.6	4996.9	5019.4	5023.1
55°	3169.2	3176.7	3143.0	3400.0	3634.6	3974.2	4319.5	4580.3	4758.6	4777.3	4788.6
57.5°	2897.2	2899.0	2870.9	3116.7	3341.9	3689.0	4051.1	4325.1	4494.0	4512.7	4529.6
60°	2627.0	2625.1	2593.2	2831.5	3047.3	3390.7	3767.8	4039.9	4203.1	4220.0	4242.5
62.5°	2358.6	2353.0	2324.9	2544.4	2747.0	3086.7	3465.7	3728.4	3884.1	3895.4	3925.4
65°	2092.2	2086.6	2060.3	2262.9	2446.8	2771.4	3143.0	3392.5	3533.3	3548.3	3542.6
67.5°	1829.5	1818.2	1797.6	1979.6	2146.6	2446.8	2803.3	3041.6	3158.0	3171.1	3206.8
70°	1566.8	1553.7	1506.7	1700.0	1846.4	2114.7	2446.8	2658.9	2756.4	2769.6	2763.9
72.5°	1307.9	1294.7	1244.1	1422.3	1546.2	1780.7	2077.2	2253.6	2338.0	2349.3	2349.3
75°	1056.4	1048.9	1017.0	1152.1	1255.3	1446.7	1698.1	1844.5	1910.2	1923.3	1919.6
77.5°	814.4	808.7	776.8	893.2	973.9	1116.5	1319.1	1433.6	1482.4	1497.4	1529.3
80°	583.6	581.7	531.0	645.5	681.1	801.2	949.5	1037.6	1063.9	1084.6	1107.1
82.5°	373.4	375.3	324.6	422.2	437.2	514.1	606.1	660.5	679.3	696.1	713.0
85°	182.0	189.5	161.4	223.3	225.2	264.6	304.0	324.6	332.1	345.3	360.3
87.5°	46.9	54.4	30.0	63.8	56.3	73.2	84.4	90.1	88.2	97.6	103.2
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°	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1
2.5°	7873.4	7933.4	7903.4	8001.0	8038.5	7978.5	8083.5	8085.4	8010.4	8098.5	8147.3
5°	7751.4	7813.3	7794.6	7895.9	7942.8	7890.3	8017.9	8042.3	7969.1	8068.5	8147.3
7.5°	7627.6	7700.7	7676.4	7779.6	7835.8	7794.6	7931.5	7970.9	7914.7	8023.5	8128.6
10°	7520.6	7582.5	7556.3	7665.1	7713.9	7680.1	7815.2	7888.4	7835.8	7969.1	8094.8
12.5°	7415.5	7466.2	7436.2	7526.2	7573.2	7530.0	7695.1	7762.7	7725.1	7864.0	8025.4
15°	7280.4	7336.7	7295.4	7376.1	7411.8	7374.3	7509.4	7625.7	7578.8	7730.8	7909.0
17.5°	7177.2	7209.1	7152.8	7216.6	7237.3	7186.6	7323.6	7438.0	7404.3	7569.4	7775.8
20°	7062.8	7089.0	7010.2	7045.9	7044.0	6980.2	7105.9	7218.5	7196.0	7378.0	7612.6
22.5°	6935.2	6948.3	6856.4	6863.9	6860.1	6755.0	6867.6	6982.1	6972.7	7156.6	7419.3
25°	6800.1	6802.0	6683.7	6680.0	6638.7	6514.9	6614.3	6743.8	6715.6	6914.5	7190.4
27.5°	6666.8	6648.1	6505.5	6471.7	6406.0	6257.8	6346.0	6462.3	6445.4	6640.6	6946.4
30°	6524.2	6499.8	6325.3	6263.4	6167.7	5997.0	6070.2	6179.0	6188.4	6359.1	6680.0
32.5°	6389.1	6327.2	6134.0	6043.9	5923.8	5724.9	5764.3	5875.0	5890.0	6062.6	6392.9
35°	6214.6	6173.4	5935.1	5781.2	5663.0	5445.3	5486.6	5563.5	5586.0	5754.9	6090.8
37.5°	6049.5	5983.8	5730.5	5542.9	5390.9	5162.0	5173.2	5252.0	5274.6	5445.3	5777.4
40°	5878.8	5784.9	5512.9	5293.3	5118.8	4878.6	4865.5	4948.1	4965.0	5132.0	5432.2
42.5°	5696.8	5584.2	5278.3	5038.1	4837.4	4593.4	4567.2	4638.5	4657.2	4820.5	5115.1
45°	5512.9	5377.8	5038.1	4775.4	4555.9	4306.3	4280.1	4334.5	4362.6	4516.5	4799.8
47.5°	5317.7	5160.1	4790.4	4497.7	4270.7	4021.1	3989.2	4043.6	4066.2	4218.1	4486.5
50°	5113.2	4921.8	4535.3	4212.5	3987.4	3741.5	3694.6	3758.4	3779.1	3921.7	4184.4
52.5°	4888.0	4676.0	4263.2	3925.4	3700.3	3465.7	3409.4	3471.3	3495.7	3634.6	3876.6
55°	4649.7	4420.8	3989.2	3660.9	3416.9	3188.0	3141.1	3165.5	3218.0	3349.4	3574.5
57.5°	4381.4	4154.3	3700.3	3366.3	3131.7	2912.2	2872.8	2895.3	2944.1	3071.7	3274.3
60°	4096.2	3856.0	3405.7	3071.7	2844.6	2636.3	2600.7	2621.3	2673.9	2790.2	2977.8
62.5°	3814.7	3544.5	3101.7	2769.6	2563.2	2369.9	2360.5	2353.0	2401.8	2514.4	2679.5
65°	3473.2	3214.3	2784.6	2469.3	2281.7	2107.2	2069.7	2086.6	2133.5	2236.7	2409.3
67.5°	3107.3	2872.8	2460.0	2169.1	2002.1	1846.4	1814.5	1822.0	1870.8	1960.8	2111.0
70°	2718.9	2512.5	2127.8	1867.0	1726.3	1579.9	1559.3	1561.2	1608.1	1686.9	1818.2
72.5°	2311.7	2126.0	1792.0	1568.7	1452.3	1347.3	1328.5	1306.0	1349.1	1416.7	1529.3
75°	1897.0	1733.8	1458.0	1276.0	1184.0	1095.8	1078.9	1056.4	1099.6	1157.7	1245.9
77.5°	1478.6	1347.3	1133.3	992.6	921.3	855.6	840.6	816.2	859.4	902.5	972.0
80°	1069.5	973.9	846.3	698.0	673.6	630.5	615.5	589.2	630.5	658.6	711.2
82.5°	690.5	626.7	553.5	450.3	446.6	414.7	407.2	377.2	414.7	431.6	471.0
85°	349.0	319.0	300.2	228.9	236.4	215.8	213.9	182.0	212.0	219.5	242.1
87.5°	99.4	105.1	93.8	56.3	71.3	67.6	67.6	48.8	67.6	67.6	76.9
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: P838216

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6HI-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1	8044.1
2.5°	8051.6	8083.5	8091.0	8089.2	8109.8	8222.4	8184.9	8222.4
5°	8070.4	8141.7	8160.5	8186.7	8220.5	8348.1	8306.8	8351.9
7.5°	8081.7	8188.6	8229.9	8280.6	8335.0	8477.6	8443.8	8488.8
10°	8081.7	8220.5	8280.6	8365.0	8438.2	8603.3	8571.4	8623.9
12.5°	8047.9	8226.1	8310.6	8428.8	8522.6	8700.9	8687.7	8725.3
15°	7978.5	8198.0	8314.3	8466.3	8582.7	8781.6	8775.9	8821.0
17.5°	7884.6	8149.2	8289.9	8481.3	8627.7	8851.0	8864.1	8888.5
20°	7766.4	8057.3	8241.1	8475.7	8659.6	8905.4	8922.3	8956.1
22.5°	7610.7	7946.6	8168.0	8451.3	8663.3	8927.9	8957.9	8989.8
25°	7426.8	7813.3	8072.3	8404.4	8644.6	8926.0	8967.3	8995.5
27.5°	7216.6	7640.7	7950.3	8329.3	8592.0	8896.0	8946.7	8980.5
30°	6972.7	7456.8	7811.5	8231.8	8520.7	8839.7	8894.1	8927.9
32.5°	6721.3	7254.2	7646.3	8106.0	8417.5	8749.7	8796.6	8822.8
35°	6447.3	7008.4	7447.4	7944.7	8284.3	8605.2	8640.8	8669.0
37.5°	6149.0	6741.9	7220.4	7762.7	8096.7	8404.4	8436.3	8468.2
40°	5841.2	6462.3	6965.2	7539.4	7873.4	8158.6	8192.4	8214.9
42.5°	5531.6	6152.7	6693.1	7276.7	7608.8	7882.8	7903.4	7925.9
45°	5218.3	5831.9	6387.3	6985.8	7314.2	7571.3	7578.8	7597.5
47.5°	4899.3	5499.7	6051.4	6653.7	6978.3	7212.9	7220.4	7235.4
50°	4578.4	5167.6	5693.0	6295.3	6612.4	6860.1	6826.3	6841.4
52.5°	4263.2	4818.6	5355.2	5908.8	6222.1	6441.7	6451.1	6421.0
55°	3953.6	4477.1	4970.6	5503.5	5801.8	5972.6	5967.0	5978.2
57.5°	3640.2	4131.8	4584.0	5071.9	5362.8	5524.1	5557.9	5518.5
60°	3321.2	3782.8	4188.1	4629.1	4910.5	5045.6	5085.0	5047.5
62.5°	3004.1	3428.2	3796.0	4180.6	4441.4	4608.4	4604.7	4563.4
65°	2687.0	3071.7	3400.0	3726.5	3953.6	4120.6	4113.1	4075.5
67.5°	2394.3	2711.4	3006.0	3270.6	3467.6	3582.0	3621.5	3576.4
70°	2071.5	2345.5	2604.4	2816.5	2979.7	3082.9	3120.5	3081.0
72.5°	1748.8	1981.5	2163.5	2368.0	2493.7	2580.1	2619.5	2581.9
75°	1429.8	1621.2	1769.4	1928.9	2017.1	2090.3	2135.3	2097.8
77.5°	1120.2	1268.4	1386.7	1503.0	1604.3	1621.2	1660.6	1636.2
80°	825.6	932.6	1018.9	1095.8	1169.0	1176.5	1208.4	1193.4
82.5°	549.8	621.1	643.6	724.3	771.2	763.7	795.6	784.3
85°	290.8	334.0	373.4	397.8	424.1	399.7	427.8	416.6
87.5°	97.6	103.2	90.1	127.6	140.7	120.1	137.0	131.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)