

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: P838134

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3STD-50-120-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: P838134
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-LD4-3STD-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

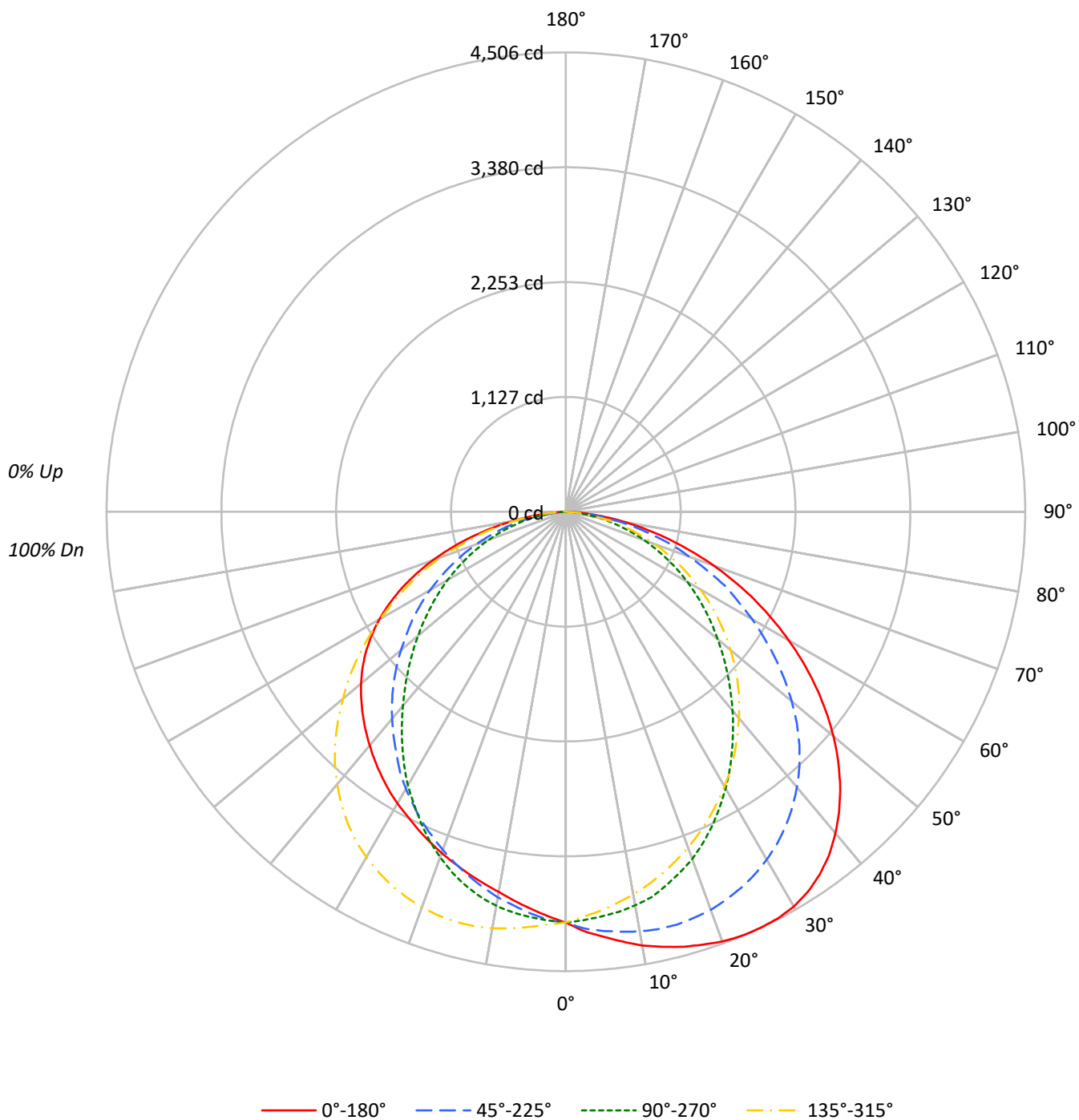
Lumens per Lamp: N/A
Luminaire Lumens: 11822.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	5422	5422	5422	5422
5°	5651	5383	5281	5392
10°	5902	5355	5174	5363
15°	6155	5287	5123	5288
20°	6424	5191	5101	5161
25°	6690	5046	5100	4994
30°	6948	4870	5134	4816
35°	7133	4670	5186	4596
40°	7228	4469	5258	4368
45°	7242	4266	5360	4158
50°	7173	4071	5491	3962
55°	7025	3890	5614	3781
60°	6804	3700	5688	3604
65°	6500	3483	5659	3402
70°	6072	3228	5458	3169
75°	5463	2878	5008	2863
80°	4632	2411	4210	2447
85°	3222	1596	2669	1639

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.6	3.2
10°-20°	1107.9	9.4
20°-30°	1697.8	14.4
30°-40°	2064.5	17.5
40°-50°	2146.1	18.2
50°-60°	1938.6	16.4
60°-70°	1473.8	12.5
70°-80°	821.7	7.0
80°-90°	189.2	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°	3188.3	27.0
0°-40°	5252.7	44.4
0°-60°	9337.4	79.0
0°-90°	11822.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11822.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4030	4030	4030	4030	4030	
5°	4184	3985	3910	3992	4184	403
15°	4419	3796	3678	3796	4419	1253
25°	4506	3399	3436	3364	4506	2081
35°	4342	2843	3157	2798	4342	2712
45°	3806	2242	2817	2185	3806	2930
55°	2995	1658	2393	1612	2995	2673
65°	2042	1094	1777	1069	2042	2017
75°	1051	554	963	551	1051	1116
85°	209	103	173	106	209	263
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°	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5
2.5°	4118.8	4058.7	4059.6	4112.2	4071.8	4091.6	4035.2	4056.8	4050.2	4054.9	4008.9
5°	4183.7	4118.8	4117.9	4163.0	4117.9	4126.3	4054.9	4069.0	4048.3	4035.2	3985.4
7.5°	4252.3	4187.4	4180.9	4220.3	4161.1	4154.5	4075.6	4075.6	4038.0	4005.1	3958.1
10°	4320.0	4253.2	4244.8	4274.9	4201.5	4179.9	4084.1	4069.0	4019.2	3970.3	3919.6
12.5°	4370.7	4303.1	4296.5	4315.3	4232.6	4193.1	4084.1	4054.9	3981.6	3913.0	3873.5
15°	4418.7	4349.1	4331.3	4340.7	4245.7	4193.1	4070.9	4025.8	3931.8	3841.5	3795.5
17.5°	4452.5	4385.8	4367.9	4367.0	4252.3	4177.1	4042.7	3980.7	3867.9	3758.8	3712.8
20°	4486.3	4419.6	4397.1	4380.1	4250.4	4155.5	4001.3	3917.7	3786.1	3663.9	3625.4
22.5°	4503.3	4434.7	4410.2	4384.8	4238.2	4116.0	3950.6	3844.4	3694.0	3548.3	3516.3
25°	4506.1	4435.6	4409.3	4372.6	4213.8	4069.0	3884.8	3756.0	3587.8	3426.1	3398.8
27.5°	4498.6	4421.5	4395.2	4351.0	4177.1	4011.7	3806.8	3655.4	3475.0	3296.4	3267.2
30°	4472.2	4394.2	4368.9	4311.5	4125.4	3941.2	3721.2	3543.6	3350.0	3160.1	3134.7
32.5°	4419.6	4343.5	4322.8	4265.5	4069.0	3859.4	3621.6	3423.3	3211.8	3030.4	2992.8
35°	4342.5	4266.4	4253.2	4193.1	3990.1	3761.7	3512.6	3291.7	3065.2	2880.0	2843.3
37.5°	4242.0	4178.0	4158.3	4099.1	3897.0	3650.7	3387.6	3148.8	2915.7	2716.4	2693.9
40°	4115.1	4054.9	4039.9	3987.2	3788.9	3527.6	3252.2	3001.2	2761.6	2576.4	2544.4
42.5°	3970.3	3913.9	3905.5	3850.9	3655.4	3391.3	3105.6	2848.0	2600.8	2422.2	2390.3
45°	3805.8	3751.3	3749.4	3697.7	3509.7	3240.0	2951.4	2692.9	2443.9	2258.7	2241.8
47.5°	3624.4	3575.5	3575.5	3527.6	3347.1	3073.6	2792.6	2531.3	2285.9	2122.4	2092.3
50°	3427.0	3381.0	3366.9	3343.4	3167.6	2892.2	2625.3	2373.4	2129.9	1973.9	1944.7
52.5°	3216.5	3177.0	3186.4	3143.2	2973.0	2703.3	2456.1	2195.7	1972.9	1831.0	1801.9
55°	2994.7	2938.3	2946.7	2930.7	2770.0	2508.7	2266.2	2049.1	1818.8	1685.3	1658.1
57.5°	2764.4	2691.1	2721.1	2711.7	2553.8	2309.4	2092.3	1882.7	1665.6	1542.4	1516.1
60°	2528.4	2458.0	2489.0	2480.5	2332.0	2110.2	1912.8	1718.2	1513.3	1401.5	1375.1
62.5°	2285.9	2221.1	2249.3	2242.7	2106.4	1906.2	1734.2	1555.6	1360.1	1259.5	1235.1
65°	2041.6	1979.5	2004.9	2000.2	1874.2	1722.0	1550.9	1387.4	1205.9	1118.5	1094.1
67.5°	1791.5	1734.2	1757.7	1757.7	1642.1	1496.4	1366.7	1217.2	1054.6	979.4	956.9
70°	1543.4	1489.8	1510.5	1508.6	1410.9	1292.4	1180.6	1047.1	901.4	839.4	820.6
72.5°	1293.4	1246.4	1265.2	1263.3	1181.5	1105.4	994.5	878.8	752.0	702.1	685.2
75°	1050.9	1006.7	1024.5	1022.7	955.9	884.5	810.2	714.4	605.3	570.5	553.6
77.5°	819.6	774.5	789.6	789.6	740.7	689.0	629.8	555.5	478.4	440.8	428.6
80°	597.8	576.2	568.7	569.6	536.7	502.9	472.8	401.4	345.0	319.6	311.1
82.5°	392.9	375.0	367.5	369.4	350.6	329.9	311.1	261.3	223.7	208.7	204.0
85°	208.7	195.5	188.9	193.6	189.9	178.6	169.2	135.4	111.9	106.2	103.4
87.5°	65.8	57.3	52.6	69.6	59.2	52.6	50.8	40.4	31.0	31.0	30.1
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°	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5
2.5°	4023.9	4023.9	3987.2	3978.8	3975.0	3979.7	3943.1	3936.5	3989.1	3971.3	3930.8
5°	3991.9	3990.1	3938.4	3929.0	3929.0	3923.3	3882.0	3872.6	3925.2	3910.2	3866.0
7.5°	3952.5	3946.8	3885.7	3879.1	3869.7	3866.0	3819.9	3813.3	3858.5	3849.1	3807.7
10°	3904.5	3898.9	3826.5	3821.8	3811.5	3803.9	3760.7	3756.0	3802.1	3787.0	3754.1
12.5°	3841.5	3831.2	3757.0	3752.3	3743.8	3741.0	3698.7	3696.8	3747.6	3732.5	3697.7
15°	3758.8	3750.4	3667.7	3669.5	3670.5	3670.5	3636.6	3634.8	3684.6	3678.0	3640.4
17.5°	3667.7	3656.4	3577.4	3583.1	3589.6	3597.2	3570.8	3575.5	3628.2	3619.7	3585.9
20°	3564.3	3553.0	3475.9	3491.9	3506.0	3521.0	3504.1	3517.3	3566.1	3562.4	3537.0
22.5°	3448.7	3437.4	3365.9	3390.4	3413.9	3442.1	3434.6	3449.6	3501.3	3500.3	3477.8
25°	3307.7	3310.5	3247.5	3277.6	3317.1	3356.5	3359.4	3383.8	3441.1	3435.5	3414.8
27.5°	3176.1	3179.8	3113.1	3163.8	3216.5	3267.2	3279.5	3313.3	3371.6	3366.9	3349.0
30°	3037.9	3042.6	2977.7	3047.3	3111.2	3173.2	3199.6	3245.6	3304.8	3304.8	3286.0
32.5°	2894.1	2902.5	2834.9	2927.9	3002.2	3074.6	3120.6	3168.5	3236.2	3234.3	3218.4
35°	2746.5	2755.9	2693.9	2812.3	2886.6	2974.9	3032.3	3096.2	3156.3	3157.3	3145.0
37.5°	2596.1	2607.4	2551.0	2680.7	2765.3	2869.6	2943.0	3006.9	3073.6	3077.4	3066.1
40°	2446.7	2458.9	2410.0	2535.0	2642.2	2758.7	2843.3	2918.5	2991.8	2993.7	2986.2
42.5°	2297.2	2310.4	2273.7	2395.9	2517.2	2642.2	2741.8	2827.3	2902.5	2907.2	2898.8
45°	2151.5	2162.8	2136.5	2270.0	2386.5	2522.8	2637.5	2734.3	2810.4	2817.0	2814.2
47.5°	2006.8	2017.1	1993.6	2115.8	2250.2	2395.0	2527.5	2634.7	2715.5	2723.0	2721.1
50°	1864.8	1873.3	1847.9	1975.8	2109.2	2263.4	2401.6	2525.6	2615.9	2623.4	2622.4
52.5°	1723.9	1732.3	1710.7	1845.1	1966.4	2129.0	2279.4	2413.8	2503.1	2514.3	2516.2
55°	1587.6	1591.3	1574.4	1703.2	1820.7	1990.8	2163.7	2294.4	2383.7	2393.1	2398.7
57.5°	1451.3	1452.2	1438.1	1561.2	1674.0	1847.9	2029.3	2166.6	2251.2	2260.6	2269.0
60°	1315.9	1315.0	1299.0	1418.4	1526.5	1698.5	1887.4	2023.7	2105.5	2113.9	2125.2
62.5°	1181.5	1178.7	1164.6	1274.6	1376.1	1546.2	1736.1	1867.7	1945.7	1951.3	1966.4
65°	1048.0	1045.2	1032.1	1133.6	1225.7	1388.3	1574.4	1699.4	1769.9	1777.4	1774.6
67.5°	916.4	910.8	900.5	991.6	1075.3	1225.7	1404.3	1523.6	1581.9	1588.5	1606.4
70°	784.9	778.3	754.8	851.6	924.9	1059.3	1225.7	1331.9	1380.8	1387.4	1384.5
72.5°	655.1	648.6	623.2	712.5	774.5	892.0	1040.5	1128.9	1171.2	1176.8	1176.8
75°	529.2	525.4	509.4	577.1	628.8	724.7	850.6	924.0	956.9	963.4	961.6
77.5°	407.9	405.1	389.1	447.4	487.8	559.3	660.8	718.1	742.6	750.1	766.1
80°	292.3	291.4	266.0	323.3	341.2	401.4	475.6	519.8	532.9	543.3	554.6
82.5°	187.0	188.0	162.6	211.5	219.0	257.5	303.6	330.9	340.3	348.7	357.2
85°	91.2	94.9	80.8	111.9	112.8	132.5	152.3	162.6	166.4	172.9	180.5
87.5°	23.5	27.3	15.0	32.0	28.2	36.7	42.3	45.1	44.2	48.9	51.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5
2.5°	3944.0	3974.1	3959.0	4007.9	4026.7	3996.6	4049.3	4050.2	4012.6	4056.8	4081.2
5°	3882.9	3913.9	3904.5	3955.3	3978.8	3952.5	4016.4	4028.6	3991.9	4041.8	4081.2
7.5°	3820.9	3857.5	3845.3	3897.0	3925.2	3904.5	3973.1	3992.9	3964.7	4019.2	4071.8
10°	3767.3	3798.3	3785.1	3839.7	3864.1	3847.2	3914.9	3951.5	3925.2	3991.9	4054.9
12.5°	3714.7	3740.0	3725.0	3770.1	3793.6	3772.0	3854.7	3888.5	3869.7	3939.3	4020.1
15°	3647.0	3675.2	3654.5	3694.9	3712.8	3694.0	3761.7	3819.9	3796.4	3872.6	3961.9
17.5°	3595.3	3611.3	3583.1	3615.0	3625.4	3600.0	3668.6	3725.9	3709.0	3791.7	3895.1
20°	3537.9	3551.1	3511.6	3529.5	3528.5	3496.6	3559.6	3616.0	3604.7	3695.9	3813.3
22.5°	3474.0	3480.6	3434.6	3438.3	3436.4	3383.8	3440.2	3497.5	3492.8	3584.9	3716.5
25°	3406.4	3407.3	3348.1	3346.2	3325.5	3263.5	3313.3	3378.2	3364.1	3463.7	3601.9
27.5°	3339.6	3330.2	3258.8	3241.9	3209.0	3134.7	3178.9	3237.2	3228.7	3326.5	3479.7
30°	3268.2	3256.0	3168.5	3137.5	3089.6	3004.1	3040.7	3095.2	3099.9	3185.5	3346.2
32.5°	3200.5	3169.5	3072.7	3027.6	2967.4	2867.8	2887.5	2943.0	2950.5	3037.0	3202.4
35°	3113.1	3092.4	2973.0	2896.0	2836.7	2727.7	2748.4	2786.9	2798.2	2882.8	3051.1
37.5°	3030.4	2997.5	2870.6	2776.6	2700.5	2585.8	2591.4	2630.9	2642.2	2727.7	2894.1
40°	2944.8	2897.8	2761.6	2651.6	2564.2	2443.9	2437.3	2478.6	2487.1	2570.7	2721.1
42.5°	2853.7	2797.3	2644.1	2523.7	2423.2	2301.0	2287.8	2323.5	2332.9	2414.7	2562.3
45°	2761.6	2693.9	2523.7	2392.2	2282.2	2157.2	2144.0	2171.3	2185.4	2262.4	2404.4
47.5°	2663.8	2584.8	2399.7	2253.0	2139.3	2014.3	1998.3	2025.6	2036.9	2113.0	2247.4
50°	2561.3	2465.5	2271.8	2110.2	1997.4	1874.2	1850.7	1882.7	1893.0	1964.5	2096.1
52.5°	2448.6	2342.3	2135.6	1966.4	1853.6	1736.1	1707.9	1738.9	1751.1	1820.7	1941.9
55°	2329.2	2214.5	1998.3	1833.8	1711.6	1597.0	1573.5	1585.7	1612.0	1677.8	1790.6
57.5°	2194.8	2081.0	1853.6	1686.3	1568.8	1458.8	1439.1	1450.3	1474.8	1538.7	1640.2
60°	2051.9	1931.6	1706.0	1538.7	1425.0	1320.6	1302.8	1313.1	1339.4	1397.7	1491.7
62.5°	1910.9	1775.6	1553.7	1387.4	1284.0	1187.1	1182.4	1178.7	1203.1	1259.5	1342.2
65°	1739.8	1610.1	1394.9	1237.0	1143.0	1055.6	1036.8	1045.2	1068.7	1120.4	1206.9
67.5°	1556.5	1439.1	1232.3	1086.6	1002.9	924.9	908.9	912.7	937.1	982.2	1057.4
70°	1362.0	1258.6	1065.9	935.2	864.7	791.4	781.1	782.0	805.5	845.0	910.8
72.5°	1158.0	1065.0	897.6	785.8	727.5	674.9	665.5	654.2	675.8	709.7	766.1
75°	950.3	868.5	730.3	639.2	593.1	548.9	540.5	529.2	550.8	579.9	624.1
77.5°	740.7	674.9	567.7	497.2	461.5	428.6	421.1	408.9	430.5	452.1	486.9
80°	535.8	487.8	423.9	349.7	337.4	315.8	308.3	295.1	315.8	329.9	356.2
82.5°	345.9	313.9	277.3	225.6	223.7	207.7	204.0	188.9	207.7	216.2	235.9
85°	174.8	159.8	150.4	114.7	118.4	108.1	107.2	91.2	106.2	110.0	121.3
87.5°	49.8	52.6	47.0	28.2	35.7	33.8	33.8	24.4	33.8	33.8	38.5
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: P838134

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3STD-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5
2.5°	4033.3	4049.3	4053.0	4052.1	4062.4	4118.8	4100.0	4118.8
5°	4042.7	4078.4	4087.8	4101.0	4117.9	4181.8	4161.1	4183.7
7.5°	4048.3	4101.9	4122.6	4148.0	4175.2	4246.7	4229.7	4252.3
10°	4048.3	4117.9	4148.0	4190.3	4226.9	4309.6	4293.7	4320.0
12.5°	4031.4	4120.7	4163.0	4222.2	4269.2	4358.5	4351.9	4370.7
15°	3996.6	4106.6	4164.9	4241.0	4299.3	4398.9	4396.1	4418.7
17.5°	3949.6	4082.2	4152.7	4248.5	4321.9	4433.7	4440.3	4452.5
20°	3890.4	4036.1	4128.2	4245.7	4337.8	4461.0	4469.4	4486.3
22.5°	3812.4	3980.7	4091.6	4233.5	4339.7	4472.2	4487.3	4503.3
25°	3720.3	3913.9	4043.6	4210.0	4330.3	4471.3	4492.0	4506.1
27.5°	3615.0	3827.4	3982.5	4172.4	4304.0	4456.3	4481.6	4498.6
30°	3492.8	3735.3	3913.0	4123.5	4268.3	4428.1	4455.3	4472.2
32.5°	3366.9	3633.8	3830.3	4060.6	4216.6	4383.0	4406.5	4419.6
35°	3229.6	3510.7	3730.6	3979.7	4149.8	4310.6	4328.4	4342.5
37.5°	3080.2	3377.2	3616.9	3888.5	4055.9	4210.0	4226.0	4242.0
40°	2926.0	3237.2	3489.1	3776.7	3944.0	4086.9	4103.8	4115.1
42.5°	2771.0	3082.1	3352.8	3645.1	3811.5	3948.7	3959.0	3970.3
45°	2614.0	2921.3	3199.6	3499.4	3663.9	3792.7	3796.4	3805.8
47.5°	2454.2	2755.0	3031.3	3333.0	3495.6	3613.1	3616.9	3624.4
50°	2293.5	2588.6	2851.8	3153.5	3312.4	3436.4	3419.5	3427.0
52.5°	2135.6	2413.8	2682.6	2959.9	3116.9	3226.8	3231.5	3216.5
55°	1980.5	2242.7	2489.9	2756.9	2906.3	2991.8	2989.0	2994.7
57.5°	1823.5	2069.8	2296.3	2540.7	2686.4	2767.2	2784.1	2764.4
60°	1663.7	1894.9	2098.0	2318.8	2459.8	2527.5	2547.2	2528.4
62.5°	1504.8	1717.3	1901.5	2094.2	2224.8	2308.5	2306.6	2285.9
65°	1346.0	1538.7	1703.2	1866.7	1980.5	2064.1	2060.4	2041.6
67.5°	1199.4	1358.2	1505.8	1638.3	1737.0	1794.4	1814.1	1791.5
70°	1037.7	1174.9	1304.6	1410.9	1492.6	1544.3	1563.1	1543.4
72.5°	876.0	992.6	1083.8	1186.2	1249.2	1292.4	1312.2	1293.4
75°	716.2	812.1	886.4	966.3	1010.4	1047.1	1069.7	1050.9
77.5°	561.1	635.4	694.6	752.9	803.7	812.1	831.8	819.6
80°	413.6	467.2	510.4	548.9	585.6	589.3	605.3	597.8
82.5°	275.4	311.1	322.4	362.8	386.3	382.6	398.5	392.9
85°	145.7	167.3	187.0	199.3	212.4	200.2	214.3	208.7
87.5°	48.9	51.7	45.1	63.9	70.5	60.2	68.6	65.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)