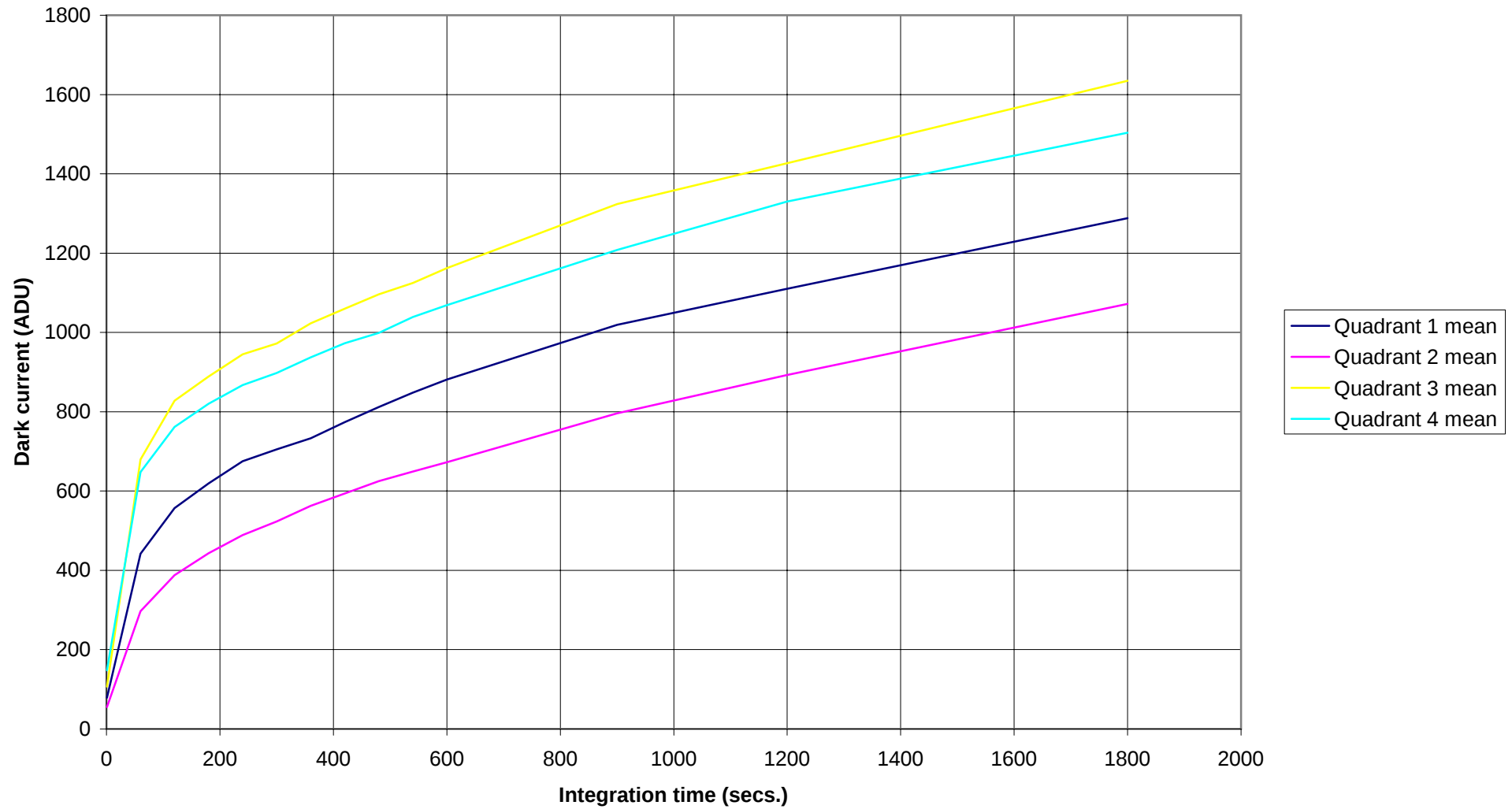
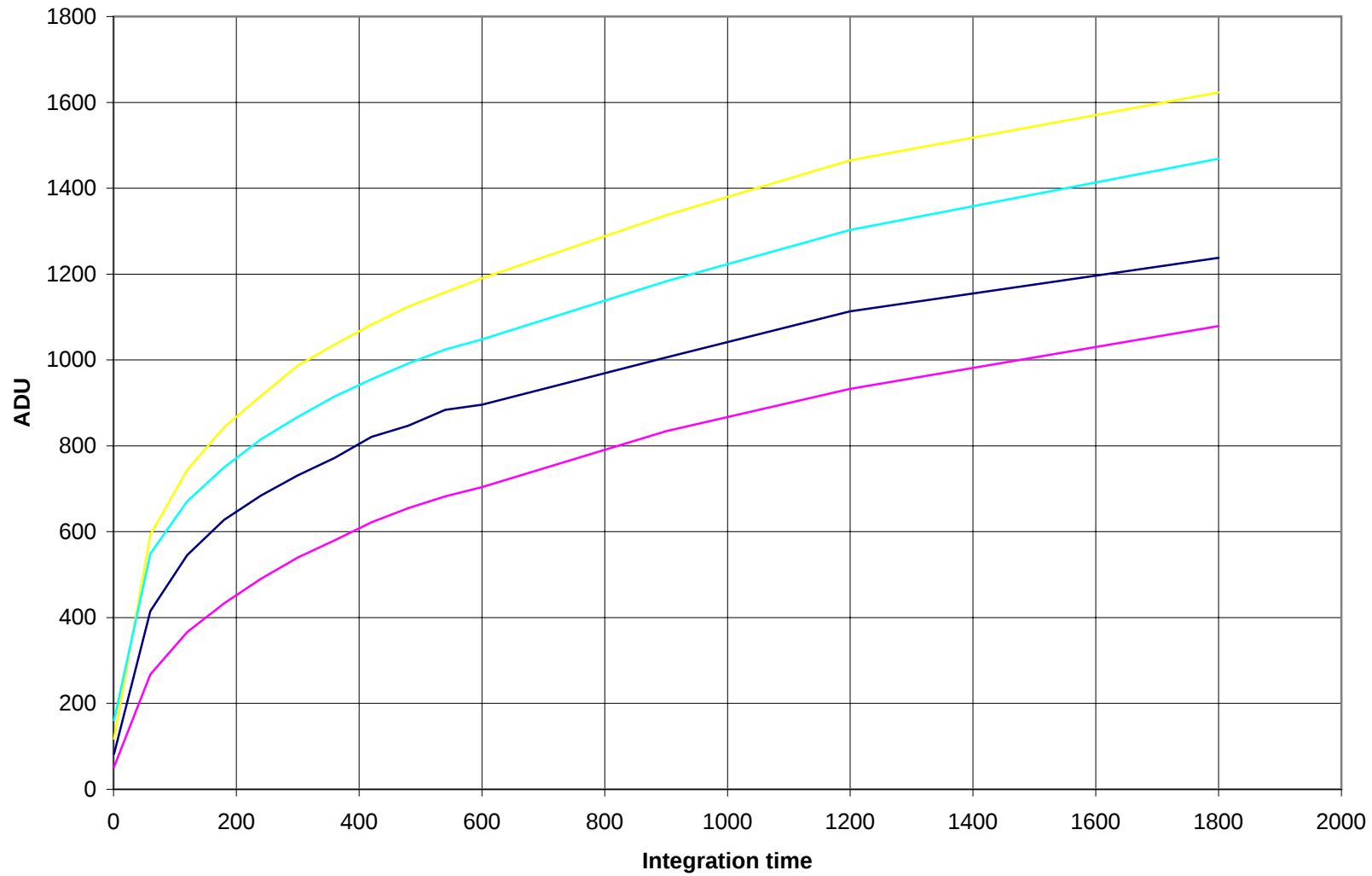


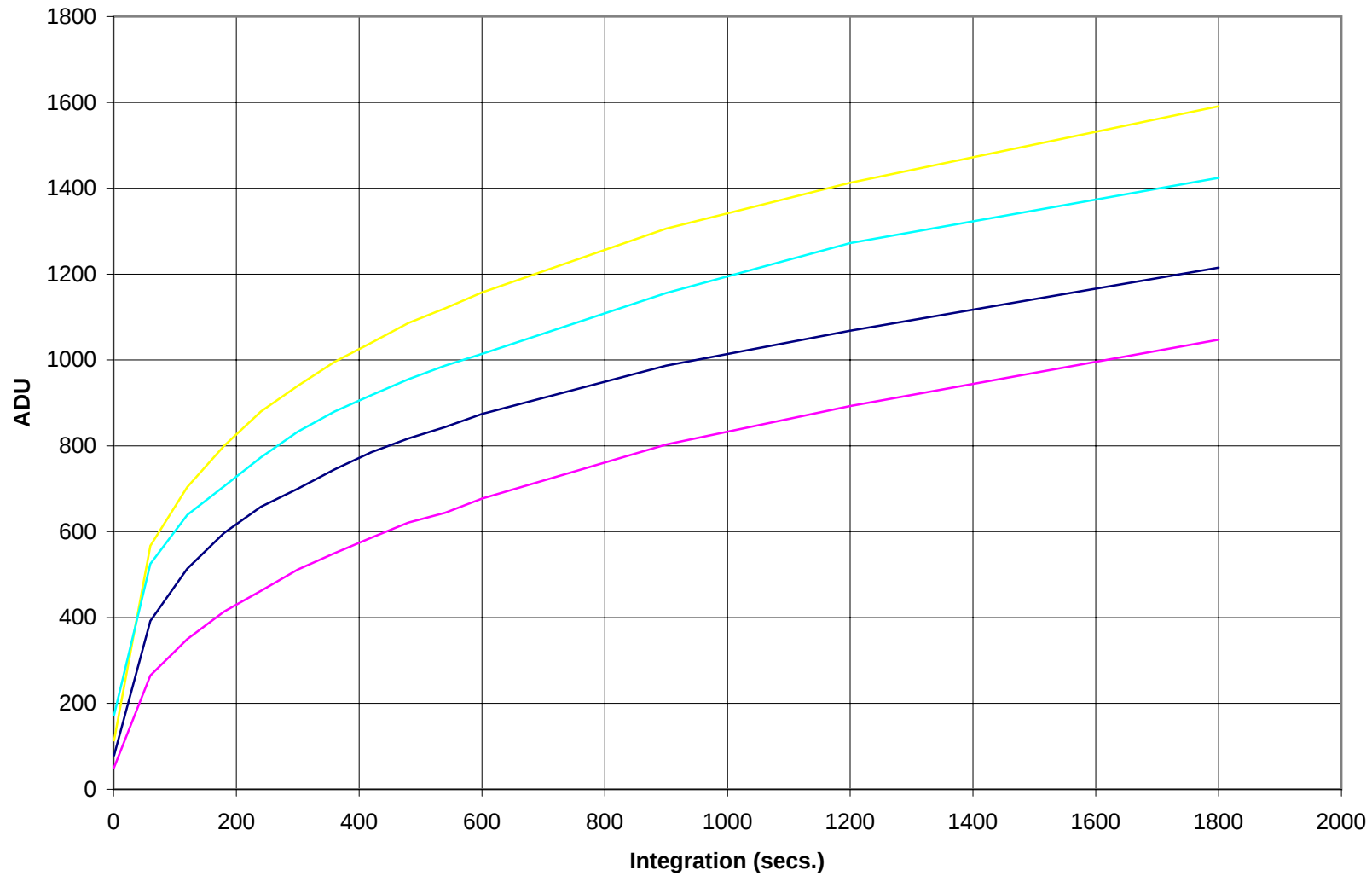
dark current vs integration time at 84 Kelvin



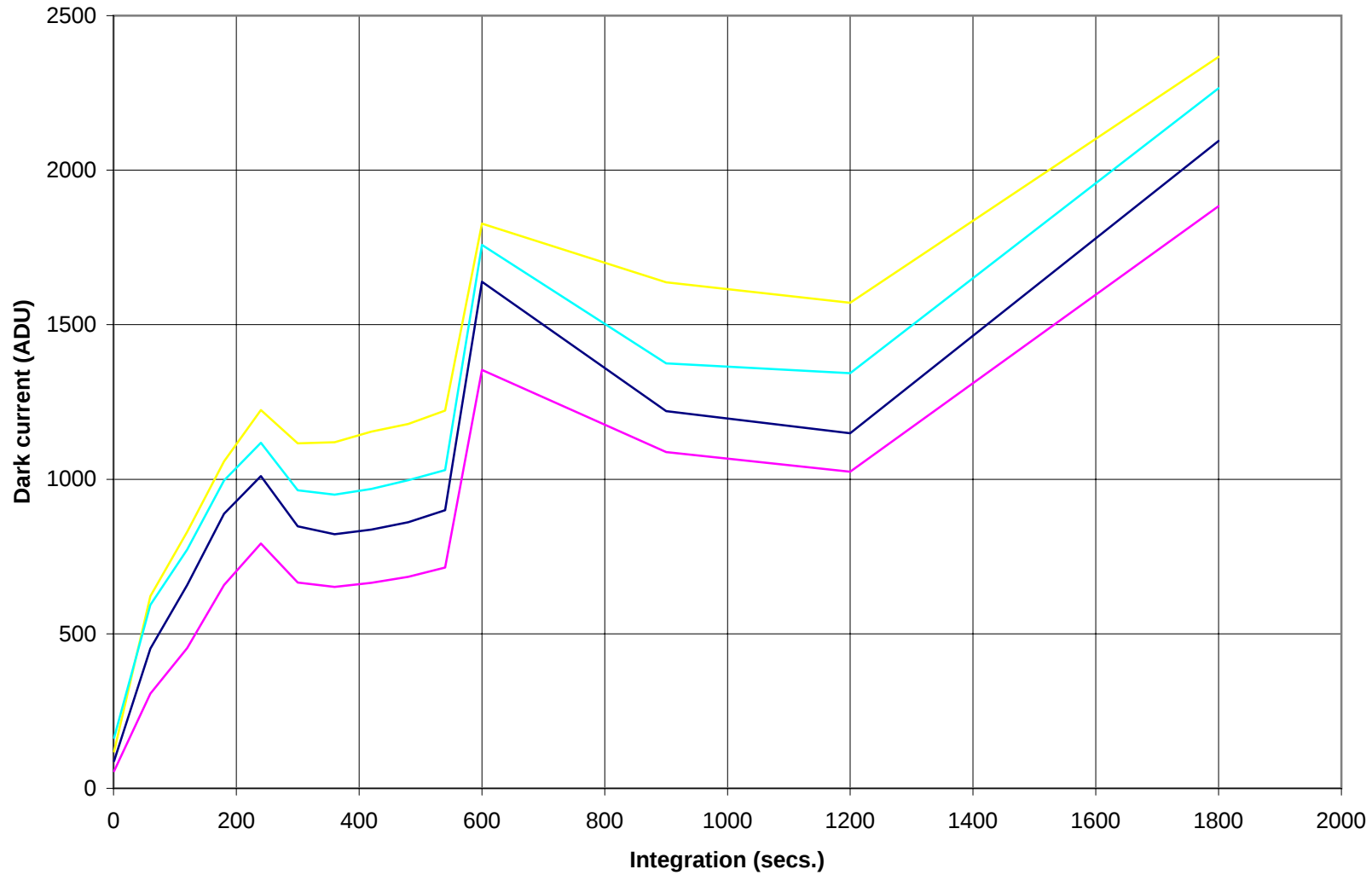
dark current vs integration time at 88 Kelvin

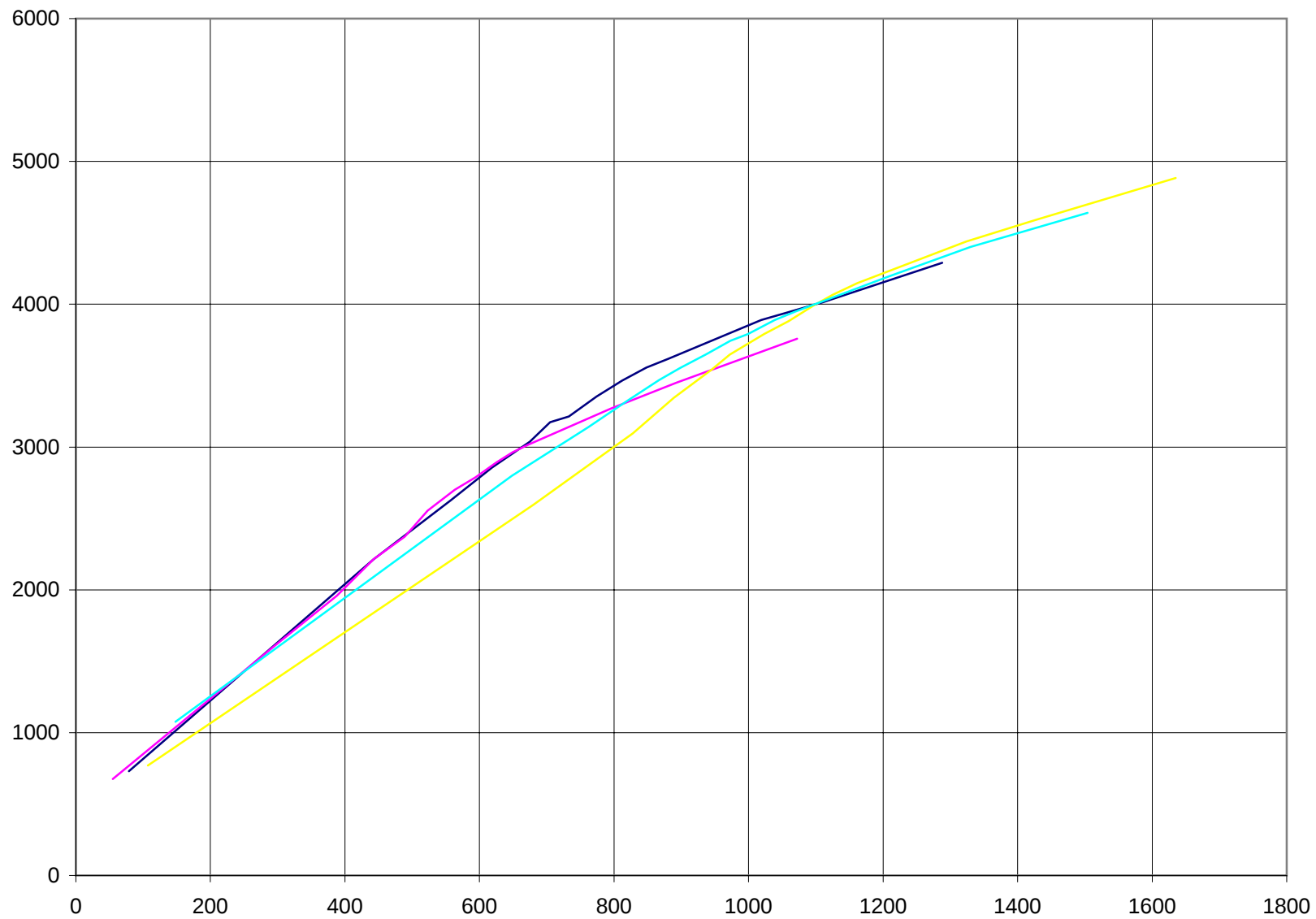


dark current vs integration time at 86 Kelvin

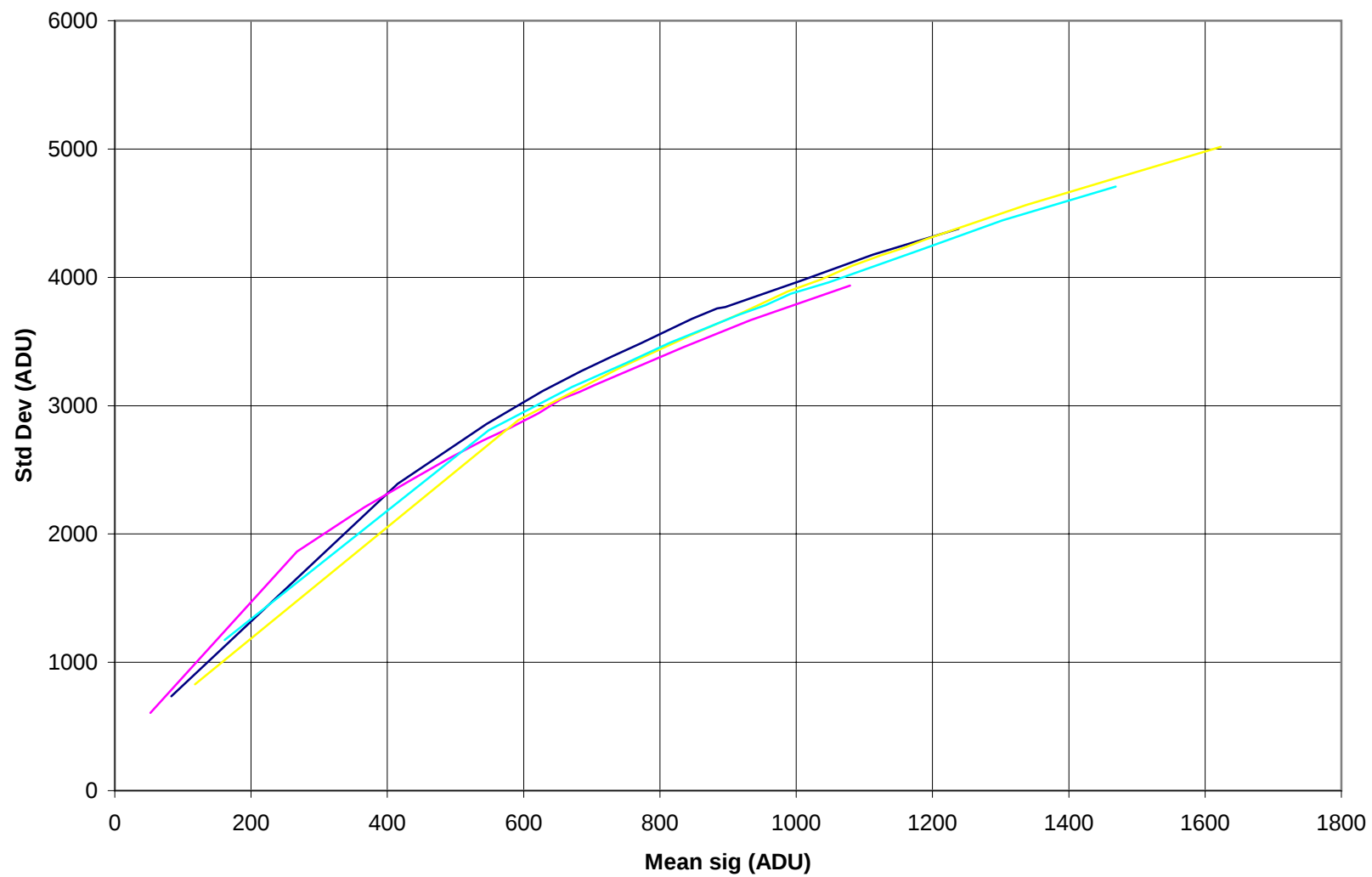


Dark current generation vs Integration time at 90 Kelvin

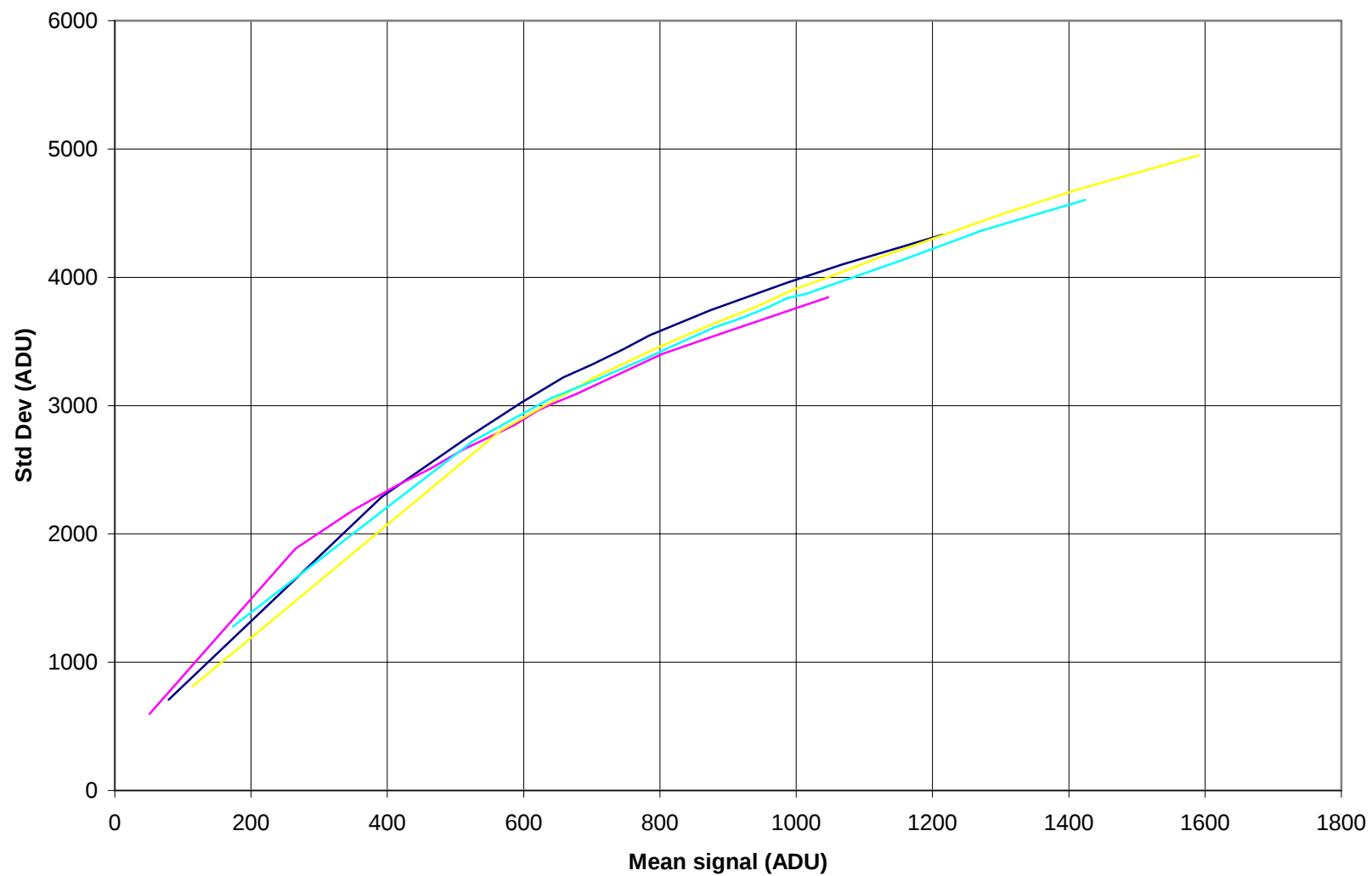




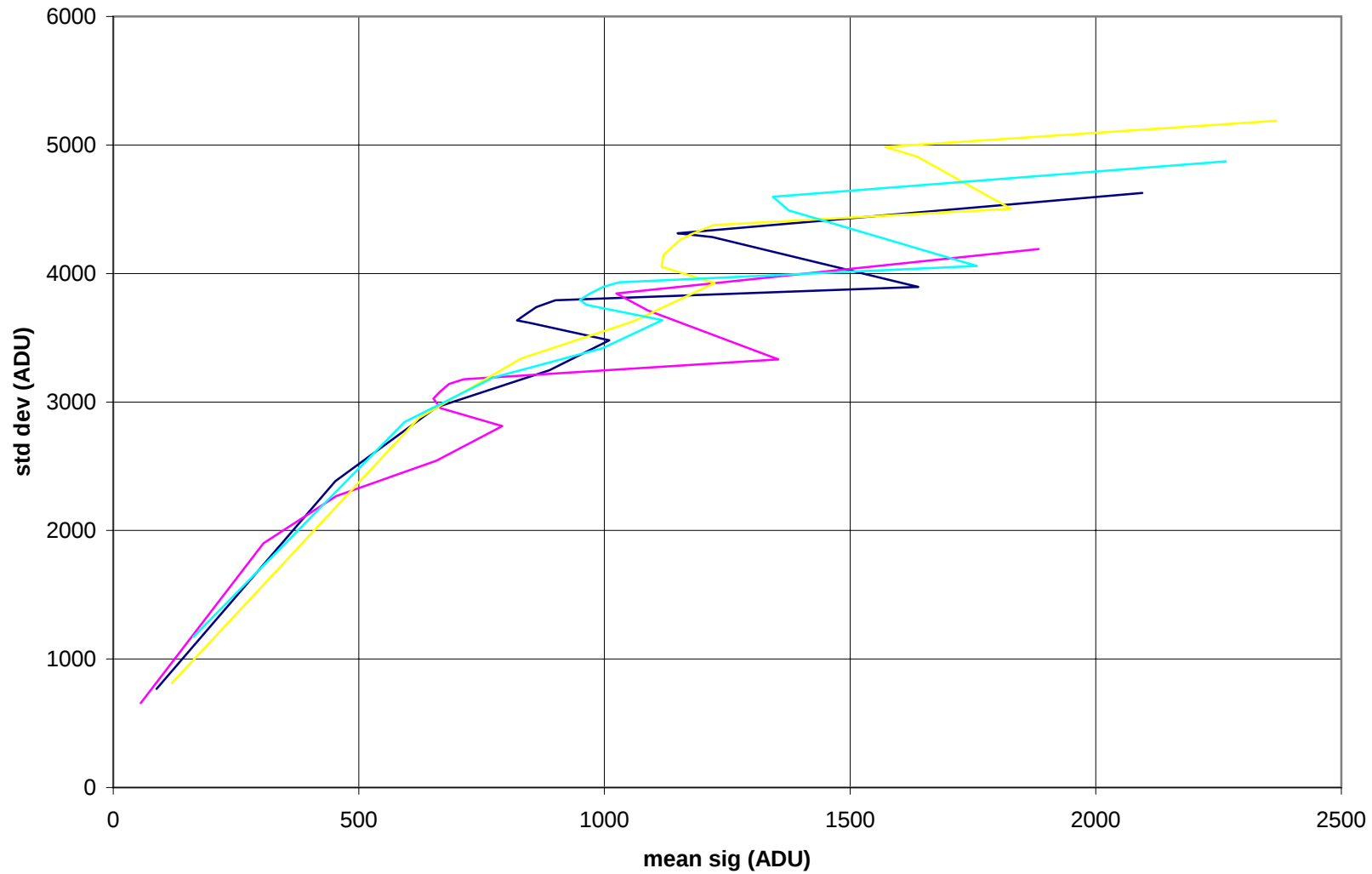
Std Dev vs Mean



noise vs mean at 86 Kelvin



Noise vs mean signal 90K



Array	CCC	Temperature	Casting	Integration Time	Quadrant 1			Quadrant 2			Quadrant 3			Quadrant 4		
					mean	std dev	mean	std dev	mean	std dev	mean	std dev	mean	std dev	mean	std dev
87.926	28.819	70.233		1	82.96	734.8	52.39	605.3	117.8	828.4	161.1	1175	1.94962	0.700252	1.914358	-5.99496
				60	415.1	2390	267.4	1863	592.6	2889	548.7	2809	11.63728	1.209068	0.291154	11.93955
				120	545.4	2856	366.4	2208	743.6	3302	670.7	3145	15.81864	8.261965	0.450379	15.96977
				180	627.8	3114	433.3	2416	843.2	3544	749.4	3329	15.51637	9.722922	0.491322	21.86398
				240	684	3269	490	2587	916	3714	815	3491	13.09824	14.10579	0.409435	21.15869
				300	731	3387	540	2728	987	3889	867	3603	15.61713	14.10579	0.53454	17.12846
				360	772	3487	580	2827	1036	3983	915	3706	13.60202	15.11335	0.454928	17.63224
				420	821	3612	622	2942	1082	4090	955	3783	13.60202	15.11335	0.454928	17.63224
				480	847	3677	655	3051	1124	4171	992	3873	15.11335	17.12846	0.432182	18.6398
				540	884	3758	682	3106	1157	4228	1024	3923	20.15113	19.14358	0.420908	18.6398
85.941	28.819	71.457		600	896	3769	704	3160	1190	4296	1048	3962	11.08312	13.60202	0.375316	17.12846
				900	1006	3972	834	3455	1183	4216	1183	4216	9.571788	15.61713	0.352569	13.60202
				1200	1113	4178	933	3667	1165	4767	1303	4445	22.67003	20.15113	0.591406	15.61713
				1800	1238	4379	1079	3936	1623	5016	1469	4708	11.5869	16.12091	0.363942	22.67003
				1	79	708	51	597	114	812	173	1277	14.89246	14.03216	0.434281	17.74075
				60	392	2289	265	1885	567	2808	525	2722	2.523129	1.401738	1.401738	-2.80348
				120	514	2739	350	2185	704	3219	639	3055	16.82086	11.49425	15.41912	19.06364
				180	597	3024	414	2379	800	3462	706	3201	40.37006	29.15615	35.3238	37.56658
				240	658	3220	462	2505	880	3641	773	3353	81.58116	68.40482	72.32969	81.30081
				300	700	3320	512	2660	940	3768	833	3499	98.68237	92.51472	96.43959	96.71983
89.508	29.27	72.197		360	745	3435	550	2756	996	3903	880	3609	41.49145	43.17354	49.34118	36.72554
				420	785	3547	586	2849	1040	3986	918	3680	21.58677	28.59546	34.76311	19.62433
				480	817	3618	621	2963	1086	4079	955	3758	14.57808	22.14746	31.95963	14.29773
				540	844	3678	644	3018	1120	4151	987	3839	12.3353	17.6619	26.07233	11.7746
				600	874	3742	677	3091	1157	4220	1014	3869	15.69947	19.62433	28.59546	12.05495
				900	987	3958	803	3402	1306	4499	1156	4135	214.4659	189.7953	187.8329	208.5786
				1200	1068	4102	893	3567	1413	4683	1272	4364	65.321	79.89907	92.79507	61.39613
				1800	1215	4331	1047	3844	1591	4951	1424	4603	22.70816	36.72554	44.29493	19.90468
				1	88	768	56	657	119	871	163	1171	246.7059	234.651	217.5498	235.7724
				60	452	2394	306	1902	622	2874	593	2845	68.64204	67.21874	71.74743	65.7523
83.682	29.72	71.865		120	658	2959	454	2267	830	3338	773	3189	0	-1.77069	3.098716	11.06684
				180	888	3247	658	2544	1058	3626	996	3419	-22.1337	-14.1656	-50.0221	-54.4489
				240	1010	3479	792	2812	1224	3826	1118	3636	-19.035	-16.8216	-54.8915	-54.4489
				300	848	3616	666	2952	1116	4052	964	3756	-9.73882	-12.8375	-39.398	-50.4648
				360	822	3634	652	3027	1120	4143	950	3793	-7.52545	-11.9522	-28.7738	-41.6113
				420	837	3676	665	3080	1154	4262	969	3841	-2.21337	-4.86941	-14.1656	-25.2324
				480	861	3738	684	3140	1179	4308	997	3896	5.312085	-5.75476	-11.9522	-25.2324
				540	900	3791	714	3177	1222	4376	1030	3931	4.869411	-3.54139	-8.85347	-24.3471
				600	1639	3895	1354	3331	1827	4503	1758	4058	2.213369	-1.77069	-4.42674	-19.4776
				900	1220	4283	1068	3713	1637	4908	1375	4492	-1.77069	-2.21337	-2.21337	-23.019
83.682	29.72	71.865		1200	1149	4314	1024	3844	1571	4985	1343	4597	-3.09872	1.770695	-2.21337	-24.3471
				1800	2095	4627	1884	4190	2367	5188	2265	4872	-14.1656	3.098716	-7.96813	-23.019
				1	79	731	55	676	107	770	148	1077	-18.5923	0	-6.19743	-25.6751
				60	442	2213	297	1614	680	2595	648	2739	-32.3152	-11.0668	-19.4776	-35.4139
				120	557	2626	388	1959	828	3095	762	3199	-9.09184	-6.16338	-19.2733	-33.0984
				180	619	2857	443	2216	889	3345	723	3189	0	-1.77069	3.098716	11.06684
				240	675	3037	489	2373	945	3541	867	3469	-22.1337	-14.1656	-50.0221	-54.4489
				300	705	3173	523	2554	972	3647	898	3553	-9.73882	-12.8375	-39.398	-50.4648
				360	733	3214	563	2700	1023	3791	937	3650	-7.52545	-11.9522	-28.7738	-41.6113
				420	774	3354	594	2788	1060	3883	973	3744	-2.21337	-4.86941	-14.1656	-25.2324
88.508	29.27	72.197		480	812	3466	625	2892	1096	3990	999	3792	4.869411	-3.54139	-8.85347	-24.3471
				540	848	3556	649	2963	1125	4067	1039	3889	2.213369	-1.77069	-4.42674	-19.4776
				600	881	3619	673	3018	1162	4149	1069	3948	-1.77069	-2.21337	-2.21337	-23.019
				900	1019	3890	796	3271	1208	4440	1208	4194	-3.09872	1.770695	-2.21337	-24.3471
				1200	1110	4014	893	3451	1324	4590	1330	4402	-14.1656	3.098716	-7.96813	-23.019
				1800	1288	4290	1072	3758	1635	4883	1504	4639	-18.5923	0	-6.19743	-25.6751
				1	79	708	51	597	114	812	173	1277	-32.3152	-11.0668	-19.4776	-35.4139
				60	392	2289	265	1885	567	2808	525	2722	-9.09184	-6.16338	-19.2733	-33.0984
				120	514	2739	350	2185	704	3219	639	3055	0	-1.77069	3.098716	11.06684
				180	597	3024	414	2379	800	3462	706	3201	-22.1337	-14.1656	-50.0221	-54.4489
				240	658	3220	462	2505	880	3641	773	3353	-19.035	-16.8216	-54.8915	-54.4489