

NANOCOM - TD5 INSTRUMENTS - TD5 ENGINE input file

Engine speed (rpm)	Road speed	Coolant temp. (C)	Turbo pres. (Bar)	Battery volt. (V)	Ambient pres. (kPa)	Air flow (g/s)	Air inlet temp. (C)	Fuel temp. (C)	Cyl. 1	Cyl. 2	Cyl. 3	Cyl. 4	Cyl. 5	Accel. track 1 (V)	Accel. track 2 (V)	Accel. track 3 (V)	Accel. supply (V)	EGR inlet (%)	EGR mod. (%)	Idle speed error	Wastegate mod. (%)
750	0	81.1	0.01	13.18	99.33	46.2	21.5	62.9	-6	2	-5	4	-7	0.592	4.471	4.671	5.01	0	0	12	0
747	0	81	0.01	13.24	99.73	45	21.5	62.7	1	5	-2	0	-3	0.592	4.471	4.666	5.01	0	0	8	0
779	0	81	0	13.15	99.47	53.7	21.5	62.9	0	-5	3	2	-1	1.417	3.676	4.55	5.01	0	0	89	0
896	0	81	0.03	13.21	99.33	54.5	21.5	62.7	1	-4	4	1	-2	1.368	3.727	4.627	5.01	0	0	14	0
854	0	81	0.03	13.27	99.47	53.7	21.5	62.7	6	-4	4	2	-2	1.352	3.72	4.607	5.01	0	0	12	0
1008	6	81	0.04	12.93	99.33	71.1	21.5	62.9	1	-3	5	1	-5	1.918	3.193	3.88	5.01	0	0	252	0
1525	11	81	0.13	13.27	98.94	120.5	21.5	62.9	-2	0	0	1	1	1.901	3.204	3.9	5.01	0	0	777	0
1519	13	81	0.08	13.31	99.47	89.5	21.5	62.7	-3	1	1	0	-1	0.592	4.471	4.671	5.01	0	0	416	0
1344	14	81	0.08	13.27	99.47	85.6	21.3	62.7	-4	-4	-2	6	4	1.809	3.289	4.012	5.01	0	0	205	0
1268	17	81	0.11	13.31	99.33	89.9	21.3	62.9	2	-7	2	4	1	1.928	3.176	3.855	5.01	0	0	394	0
1465	19	81.1	0.15	13.31	99.33	109.6	21.2	62.9	1	-5	0	5	-1	1.858	3.256	3.963	5.01	0	0	598	0
1646	22	81.1	0.18	13.31	99.2	130.8	21.2	62.7	2	-2	0	0	0	1.837	3.266	3.977	5.01	0	0	766	0
1814	24	81	0.2	13.31	99.2	142.3	21.2	62.7	0	2	1	-2	1	1.837	3.266	3.983	5.01	0	0	912	0
1932	25	81.1	0.21	12.89	98.94	150.8	21.1	62.9	0	1	0	0	0	1.788	3.312	4.041	5.01	0	0	1022	0
2015	27	81.5	0.22	13.34	98.8	155.8	21	62.7	-1	1	2	-2	1	1.778	3.323	4.056	5.01	0	0	1101	0
2107	29	81.3	0.23	13.21	98.8	166.5	20.7	62.7	2	-4	0	1	1	1.745	3.352	4.105	5.01	0	0	1182	0
2172	29	81.8	0.25	13.34	98.8	174.8	20.7	62.7	2	-4	0	1	0	1.707	3.391	4.164	5.01	0	0	1251	0
2223	30	81.8	0.25	13.27	98.68	177.6	20.6	62.9	2	-3	0	1	0	1.53	3.568	4.402	5.01	0	0	1301	0
2268	31	78.6	0.24	13.31	98.68	180.1	20.6	62.9	2	-4	-1	0	1	1.534	3.556	4.393	5.01	0	0	1335	0
2287	31	81.5	0.25	13.31	98.68	180.6	20.6	62.7	0	-2	1	-5	0	1.539	3.556	4.388	5.01	0	0	1360	0
2312	31	81.5	0.25	13.34	98.55	183.8	20.6	59.9	1	-1	0	-1	1	1.53	3.568	4.397	5.01	0	0	1384	0
2338	32	81.5	0.26	13.34	98.55	186.6	20.5	62.7	1	2	-2	-1	2	1.524	3.573	4.402	5.01	0	0	1413	0
2359	32	81.5	0.26	13.31	98.68	188.1	20.5	62.7	3	0	0	-2	1	1.53	3.568	4.402	5.015	0	0	1440	0
2378	33	81.8	0.27	13.34	98.55	190.3	20.5	62.7	0	-3	1	-1	0	1.503	3.585	4.427	5.01	0	0	1450	0
2396	33	81.8	0.27	13.02	98.68	192	20.6	62.7	0	-2	-4	1	1	1.48	3.608	4.461	5.01	0	0	1456	0
2432	33	82	0.29	12.93	98.55	191.8	20.5	62.7	-2	-4	-1	0	6	1.48	3.608	4.461	5.01	0	0	1506	0
2468	34	82	0.29	13.34	98.55	197.1	20.5	62.9	0	1	1	-6	4	1.437	3.658	4.53	5.01	0	0	1527	0
2447	34	82	0.21	13.34	99.08	165.6	20.5	62.9	-11	0	0	-1	0	0.592	4.471	4.671	5.01	0	0	1305	0
1551	32	82.5	0.09	13.31	99.47	114.4	20.5	62.9	-5	-5	-4	6	8	1.281	3.806	4.671	5.01	0	0	608	0
1539	32	82.5	0.1	12.67	99.33	107	20.5	62.7	2	-6	0	3	1	1.352	3.737	4.632	5.01	0	0	633	0
1558	33	82.5	0.1	13.34	99.08	107.6	20.5	62.5	0	-5	3	3	1	1.335	3.755	4.657	5.01	0	0	633	0
1558	32	82.5	0.1	13.34	99.2	109.8	20.5	62.7	0	-5	1	2	2	1.325	3.755	4.662	5.01	0	0	637	0
1559	33	82.6	0.1	13.34	99.33	109.6	20.5	62.7	1	-4	0	2	0	1.314	3.778	4.671	5.01	0	0	656	0
1560	32	82.5	0.1	13.34	99.33	110.6	20.5	62.5	-1	-4	2	2	2	1.314	3.772	4.671	5.01	0	0	640	0
1563	32	82.5	0.1	13.34	99.2	109.6	20.5	62.5	-1	-5	0	3	3	1.314	3.766	4.666	5.01	0	0	642	0
1553	32	82.6	0.1	13.37	99.33	110.1	20.5	62.4	0	-5	0	3	1	1.314	3.766	4.666	5.01	0	0	640	0
1551	32	82.6	0.1	13.12	99.33	111.8	20.5	62.7	2	-5	3	4	1	1.32	3.76	4.666	5.01	0	0	640	0
1558	33	82.6	0.1	13.34	99.33	110.5	20.6	62.7	-1	-4	2	2	2	1.32	3.76	4.666	5.01	0	0	638	0
1564	32	82.6	0.1	12.73	99.2	109.5	20.5	62.5	3	-5	2	0	0	1.39	3.698	4.589	5.01	0	0	629	0
1565	32	83	0.12	13.34	99.33	111.8	20.5	62.5	0	-6	0	3	2	1.475	3.618	4.467	5.01	0	0	633	0
1570	33	82.8	0.13	13.34	99.33	116	20.5	62.4	0	-4	0	2	1	1.508	3.585	4.427	5.01	0	0	646	0
1601	33	83	0.14	13.27	99.08	115.5	20.5	62.7	3	-3	0	1	-1	1.508	3.591	4.433	5.01	0	0	661	0
1602	33	83	0.14	13.15	99.08	117.1	20.5	62.4	3	-1	-2	1	3	1.491	3.602	4.447	5.01	0	0	665	0
1621	33	83	0.15	13.34	99.33	120.4	20.5	62.4	5	-2	-2	2	2	1.487	3.602	4.447	5.01	0	0	682	0
1625	34	83.3	0.15	13.21	99.33	119.8	20.5	62.5	2	-3	-1	0	-1	1.508	3.591	4.427	5.01	0	0	691	0
1637	34	83.3	0.15	13.34	99.08	119.6	20.5	62.5	2	-4	1	2	3	1.514	3.585	4.427	5.01	0	0	692	0
1635	34	83	0.15	12.58	99.2	119.9	20.3	62.5	2	-3	-2	1	2	1.508	3.585	4.422	5.01	0	0	695	0
1631	34	83	0.15	13.37	99.2	118.6	20.3	62.5	2	-2	-1	0	1	1.514	3.579	4.422	5.01	0	0	687	0
1614	34	83	0.14	13.02	99.2	117.5	20.3	62.5	2	-2	-1	0	1	1.514	3.585	4.427	5.01	0	0	675	0
1597	33	83.3	0.15	13.34	99.33	117	20.3	62.5	1	-2	-2	2	3	1.519	3.579	4.418	5.01	0	0	647	0
1578	33	83.3	0.14	13.37	99.08	115.5	20.3	62.5	-1	-5	1	3	2	1.519	3.585	4.427	5.01	0	0	628	0
1544	32	83.5	0.13	13.34	99.08	109.3	20.2	62.5	-1	-1	4	3	0	1.707	3.385	4.153	5.01	0	0	621	0
1565	32	83.4	0.18	13.37	99.2	119.1	20.2	62.5	2	-6	2	5	-3	2.058	3.046	3.674	5.01	0	0	634	0
1607	33	83.4	0.26	13.37	99.08	134.6	20.2	62.5	-1	-4	2	5	-2	2.661	2.466	2.849	5.01	0	0	709	0
1725	36	83.5	0.41	12.96	98.8	158.3	20.2	62.5	-1	-1	1	0	-2	2.44	2.681	3.151	5.01	0	0	838	0
1851	38	85.8	0.48	13.37	98.8	178.5	20.2	62.5	2	1	-3	1	2	2.424	2.698	3.171	5.01	30	0	944	30
1948	41	84	0.44	13.34	98.8	174.6	20.2	62.9	0	1	0	-3	0	1.761	3.346	4.085	5.01	0	0	1014	0
1957	41	84.1	0.25	12.86	98.94	153.8	20.2	62.7	-3	2	0	-2	-1	1.519	3.573	4.402	5.01	0	0	1021	0
1932	41	84.1	0.15	13.31	98.94	137.6	20.2	62.7	0	-2	0	-1	0	0.818	4.255	4.671	5.01	0	0	1047	0
1835	38	84	0.07	13.34	99.08	121.1	20.2	62.7	254	516	-773	8331	12597	0.592	4.471	4.671	5.01	0	0	962	0
1590	33	84.1	0.05	13.34	99.33	103.5	20.2	62.9	2	1	1	0	1	0.592	4.477	4.671	5.01	0	0	698	0
1323	27	84.1	0.03	13.4	99.47	83.9	20.2	62.5	-3	1	-2	1	3	0.592	4.471	4.671	5.01	0	0	430	0
1179	24	84.1	0.03	12.58	99.47	76.3	20.2	62.5	-1025	255	163	3332	-2272	1.126	3.966	4.671	5.01	0	0	317	0
1111	23	84.1	0.04	13.34	99.2	69.9	20.2	62.7	0	-4	-4	5	-4	1.314	3.772	4.666	5.01	0	0	186	0
1113	23	84.1	0.06	13.34	99.33	71.5	20.2	61.9	4	-3	6	3	-5	1.577	3.51	4.315	5.01	0	0	171	0
1119	23	85	0.09	13.37	98.94	77.6	20.2	61.9	-4	-3	2	5	0	2.348	2.773	3.263	5.01	0	0	215	0
1231	25	84.5	0.17	13.4	99.08	92	20.2	62.7	-2	0	1	3	0	2.677	2.448	2.839	5.01	0			

2115	62	85.4	0.61	13.31	98.15	213.1	21.1	62.5	1	-2	1	-2	0	3.362	1.779	1.886	5.01	40	0	1209	40
2204	64	85.8	0.66	13.31	97.76	234.3	21.2	62.4	1	1	3	0	-1	3.286	1.853	1.993	5.01	38.65	0	1290	38.63
2312	67	85.8	0.91	13.31	97.09	278.7	21.5	62.4	2	3	-6	-4	0	3.253	1.893	2.038	5.01	35.84	0	1425	35.91
2450	72	85.8	0.95	13.24	97.36	288.2	21.8	62.4	1	1	0	-1	2	2.877	2.25	2.546	5.01	37.7	0	1555	37.5
2538	74	86	0.56	13.31	98.55	215.3	22.2	62.4	-1	6	-6	-2	3	0.603	4.454	4.671	5.01	0	0	1602	0
1791	73	86	0.15	13.27	98.94	132.3	22.3	62.4	-1	-4	-7	0	-4	1.831	3.273	3.997	5.01	0	0	1048	0
1912	72	86.3	0.27	13.31	99.08	152.5	22.7	62.5	-3	3	-3	1	2	2.042	3.073	3.714	5.015	0	0	964	0
1915	73	86.3	0.32	13.27	98.68	157.6	22.8	62.4	-3	1	0	1	1	2.121	2.993	3.592	5.01	0	0	965	0
1903	72	86.5	0.33	13.27	98.8	157.1	23.1	62.4	2	1	2	-3	-2	2.121	2.993	3.592	5.01	0	0	965	0
1894	72	86.5	0.35	13.31	98.8	160.6	23.2	62.4	1	1	1	1	-2	2.154	2.96	3.553	5.01	0	0	953	0
1880	71	86.5	0.34	12.7	99.08	157.1	23.2	62.4	2	3	-1	-1	-2	2.154	2.966	3.558	5.01	0	0	942	0
1869	71	86.5	0.34	13.27	98.94	156	23.5	62.4	0	2	0	1	-3	2.148	2.971	3.572	5.01	0	0	925	0
1855	70	86.5	0.34	13.27	98.94	155.8	23.5	62.4	0	2	-3	2	-1	2.132	2.983	3.582	5.01	0	0	905	0
1833	69	86.9	0.34	12.96	98.55	153.1	23.7	62.4	-2	4	-4	0	-2	2.16	2.966	3.553	5.01	0	0	884	0
1812	69	86.6	0.34	13.31	98.8	153.8	23.7	62.4	1	-1	-3	0	2	2.154	2.966	3.562	5.01	0	0	869	0
1796	68	86.9	0.33	12.93	99.08	148.6	23.7	62.4	-1	-2	-3	0	-1	2.154	2.971	3.566	5.01	0	0	852	0
1782	67	86.9	0.34	13.08	98.8	150.6	23.7	62.2	1	-1	-2	-2	-1	2.148	2.971	3.566	5.01	0	0	835	0
1764	67	86.9	0.33	13.31	99.08	146.8	23.7	62.2	2	1	-1	-1	-1	2.148	2.977	3.572	5.005	0	0	814	0
1750	66	86.9	0.33	12.99	98.94	144.8	23.7	62.2	0	-2	1	1	0	2.138	2.983	3.582	5.01	0	0	801	0
1729	66	86.9	0.33	12.93	99.08	146	23.8	62	-1	1	-2	2	-2	2.138	2.983	3.576	5.01	0	0	789	0
1720	66	87.1	0.32	13.4	98.94	144.8	23.8	62	3	-2	-1	2	1	2.148	2.977	3.572	5.01	0	0	779	0
1708	65	88.8	0.31	13.24	98.94	140.3	23.8	61.9	2	-2	0	2	-1	2.148	2.971	3.562	5.01	0	0	766	0
1691	64	87	0.31	13.34	98.94	140.6	23.8	61.9	-1	0	-2	3	1	2.164	2.954	3.543	5.01	0	0	748	0
1684	64	85.1	0.31	13.15	98.68	139.5	23.8	62	2	-1	-2	2	-1	2.148	2.977	3.572	5.01	0	0	734	0
1669	63	85.1	0.3	12.55	98.68	135.8	24	62	0	-2	0	3	0	2.154	2.966	3.558	5.015	0	0	720	0
1651	63	86.9	0.29	12.77	99.08	134.8	23.8	62	2	-1	0	2	-1	2.132	2.983	3.582	5.01	0	0	714	0
1643	62	87.1	0.29	13.12	99.08	132.3	23.8	62	-2	0	0	4	-1	2.132	2.989	3.582	5.01	0	0	701	0
1636	62	87.1	0.28	13.31	98.8	131.6	23.8	62.2	1	-2	-1	1	-1	2.128	2.989	3.592	5.01	0	0	693	0
1636	62	87.1	0.27	13.31	98.8	127.8	23.7	62	-1	-4	4	4	0	2.073	3.039	3.664	5.01	0	0	691	0
1623	61	87.1	0.26	13.31	98.94	127.6	23.7	62	0	-3	1	1	1	1.826	3.278	3.997	5.01	0	0	677	0
1456	60	87.5	0.11	13.24	99.33	84	23.7	62	-2	3	1	-1	0	0.592	4.471	4.671	5.01	0	0	374	0
851	59	87.9	0.04	13.24	99.2	55.5	23.7	62	-1	-1	-10	16	8	0.818	4.261	4.671	5.01	0	0	110	0
1761	55	87.5	0.03	13.24	98.94	128.3	23.7	62	3	3	3	-2	-5	0.932	4.146	4.671	5.015	0	0	1015	0
1839	54	87.5	0.08	13.24	98.94	127.6	23.7	62	-4	2	3	1	6	0.592	4.471	4.671	5.01	0	0	994	0
1775	52	87.9	0.06	13.24	98.94	120.4	23.6	62.2	-1	0	0	0	1	0.592	4.471	4.671	5.01	0	0	930	0
1698	49	86.6	0.06	13.24	99.08	114.5	23.5	62.2	-2	0	0	0	-1	0.592	4.471	4.671	5.01	0	0	851	0
1398	48	87.9	0.05	13.24	99.2	76.8	23.2	62	0	0	-1	0	1	0.592	4.471	4.671	5.01	0	0	313	0
917	47	87.9	0.02	13.24	99.08	68.5	23.2	62.2	-2	0	2	0	-7	0.705	4.362	4.671	5.01	0	0	370	0
1936	42	87.9	0.03	13.24	98.8	133.6	23.2	62.2	2	5	3	-3	-2	0.711	4.356	4.671	5.01	0	0	1154	0
1925	40	87.9	0.06	13.24	99.08	131.6	23.2	62	0	1	-3	1	2	0.598	4.471	4.671	5.01	0	0	1066	0
1836	37	87.9	0.06	13.27	99.2	124.5	23.2	62.2	0	2	1	-1	0	0.592	4.471	4.671	5.01	0	0	992	0
1760	37	87.9	0.06	13.34	99.08	119.9	23.1	62	-2	3	-1	-1	1	0.592	4.471	4.671	5.01	0	0	913	0
1686	35	87.9	0.05	13.34	99.33	113.5	23	62	0	1	-1	-1	1	0.592	4.471	4.671	5.01	0	0	837	0
1601	33	87.9	0.04	13.31	99.33	106	22.8	62.2	0	0	0	-1	1	0.614	4.454	4.671	5.01	0	0	745	0
1500	31	87.9	0.04	13.27	99.33	97.5	22.7	62	2	1	-1	-3	-1	0.641	4.426	4.671	5.01	0	0	658	0
1431	30	87.5	0.03	13.31	99.2	94	22.7	62.2	0	0	-1	0	-1	0.592	4.471	4.671	5.01	0	0	591	0
1370	29	87.5	0.03	13.31	99.2	88.9	22.5	62.2	1	1	1	0	-3	0.592	4.471	4.671	5.01	0	0	535	0
1312	27	87.5	0.03	13.27	99.2	83	22.3	62	-1	1	0	0	1	0.598	4.471	4.666	5.01	0	0	440	0
865	22	87.5	0.03	13.31	99.59	54.5	22.3	62	10	-20	21	-14	3	0.598	4.471	4.666	5.01	0	0	9	0
816	13	87.3	0.02	13.27	99.47	50.7	22.3	62	17	6	-3	-16	-15	0.598	4.471	4.671	5.01	0	0	17	0
808	6	87.3	0.01	13.31	99.47	48.5	22.2	61.9	-10	5	1	0	4	0.598	4.471	4.671	5.01	0	0	7	0
778	4	87.3	0.01	13.21	99.33	47.2	22.2	62	-6	-24	12	-14	-9	0.598	4.471	4.671	5.01	0	0	-8	0
783	4	87.3	0.01	13.24	99.47	47	22.2	62	17	8	1	-11	-18	0.598	4.471	4.671	5.01	0	0	12	0
761	0	87	0.01	13.15	99.59	45.2	22.2	62.2	3	1	4	0	-8	0.614	4.454	4.671	5.01	0	0	-3	0
745	0	87	0.01	13.24	99.2	43.9	22.2	62.2	5	-3	5	-1	4	0.598	4.471	4.671	5.01	0	0	7	0
745	0	87	0.01	13.21	99.08	44.4	22.2	62.2	5	-4	3	-1	4	0.598	4.471	4.671	5.01	0	0	9	0
741	0	87.1	0.01	13.24	99.33	44.9	22.1	62.2	4	-4	5	-1	3	0.678	4.39	4.671	5.01	0	0	3	0
753	0	87	0.01	13.27	99.33	46.5	22.1	62.2	1	3	-3	4	-4	0.932	4.146	4.671	5.01	0	0	-11	0
811	0	87	0.01	13.15	99.47	51	22.1	62.2	-1	-5	5	4	-3	1.411	3.681	4.565	5.01	0	0	-9	0
882	5	86.6	0.03	13.24	99.2	61.7	22.1	62.2	-2	0	-4	0	2	1.686	3.408	4.197	5.01	0	0	160	0
1374	10	88.8	0.09	13.31	99.08	103.9	22	62.2	2	-4	0	4	-1	1.868	3.243	3.948	5.01	0	0	834	0
1604	13	87	0.1	13.27	99.33	95.5	22	62.2	1	1	-3	-3	4	0.592	4.471	4.666	5.01	0	0	489	0
1130	14	87	0.06	13.08	99.33	71.1	22	62.2	1	-2	14	-2	2	1.733	3.368	4.13	5.01	0	0	225	0
1285	17	87	0.1	13.31	99.2	91.9	21.7	62.2	2	-5	2	6	-2	2.03	3.085	3.733	5.01	0	0	432	0
1556	21	87	0.19	12.99	98.94	121	21.7	62.5	1	-2	-1	3	0	2.009	3.102	3.753	5.01	0	0	713	0
1848	25	87	0.25	13.27	98.8	150.6	21.6	62.7	2	0	0	0	-4	1.771	3.323	4.056	5.01	0	0	978	0
1557	27	87	0.1	13.27	99.47	92.5	21.5	62.7	-1	1	0	0	0	0.592	4.471	4.671	5.01	0	0	460	0
851	26	87	0.05	13.24	99.2	54.2	21.5	62.7	-8	-20	16	-19	2	0.592	4.471	4.671	5.01	0	0	-5	0
829	26	87	0.02	13.24	99.33	51.5	21.5	62.9	-11	-19	9	-10	1	0.592	4.471	4.671	5.01	0	0	13	0
799	22																				

746	0	87	0.01	12.96	99.59	44.4	21.1	63	-1	-4	1	0	4	0.592	4.471	4.671	5.01	0	0	5	0
740	0	87.1	0.01	13.24	99.59	44.7	21.2	63	2	-3	5	-1	-3	0.592	4.471	4.671	5.01	0	0	0	0
746	0	87.1	0.01	13.21	99.59	44.9	21.2	63	1	-5	0	-1	5	0.603	4.471	4.666	5.01	0	0	5	0
746	0	87.1	0.01	12.77	99.47	44.5	21.2	63	3	-3	-1	-1	2	0.592	4.471	4.671	5.01	0	0	8	0
749	0	87.1	0.01	13.27	99.2	44	21.2	63	-2	-5	0	1	6	0.592	4.471	4.671	5.01	0	0	9	0
746	0	87	0.01	13.27	99.2	45.2	21.2	63	-2	-3	0	3	0	0.592	4.471	4.671	5.01	0	0	4	0
752	0	87.1	0.01	13.21	99.33	44.4	21.1	63	-1	6	-4	4	-5	0.592	4.471	4.671	5.01	0	0	0	0
749	0	87	0.01	12.67	99.47	44.5	21.1	63	0	2	-3	2	-1	0.592	4.471	4.671	5.01	0	0	-4	0
751	0	87.1	0.01	13.21	99.2	45.2	21.1	63.4	-2	6	-4	3	-8	0.592	4.471	4.671	5.01	0	0	-5	0
753	0	87.1	0.01	13.27	99.47	45.2	21	63.2	1	6	-6	4	-5	0.592	4.471	4.666	5.01	0	0	-5	0
752	0	87	0.01	13.21	99.47	44.7	21.1	62.4	0	6	-4	3	-5	0.598	4.471	4.671	5.01	0	0	-1	0
743	0	87.1	0.01	13.24	99.59	44	21	63	-3	-1	0	2	2	0.592	4.465	4.671	5.01	0	0	-5	0
741	0	87.1	0.01	13.27	99.2	44.4	21	63	5	-2	5	-2	6	0.592	4.471	4.671	5.01	0	0	3	0
740	0	87.1	0.01	13.24	99.2	44.9	21	63	-1	-8	6	-1	6	0.592	4.471	4.671	5.01	0	0	10	0
743	0	87.1	0.01	13.24	99.2	45.7	21	63.2	-4	1	-2	2	-6	0.942	4.136	4.671	5.01	0	0	11	0
779	0	87.1	0.02	13.27	99.2	49.5	20.8	63.2	-3	-5	-3	8	3	1.427	3.67	4.545	5.01	0	0	-39	0
957	0	87.1	0.04	13.27	99.33	68.8	21	63.2	0	1	-1	3	3	1.848	3.266	3.987	5.01	0	0	245	0
1501	11	87.1	0.1	13.34	99.2	111.8	20.8	63.2	-3	-6	-2	3	0	1.011	4.061	4.671	5.01	0	0	715	0
1036	13	87	0.05	13.27	99.47	63.7	20.7	63.2	2	-5	8	-8	3	1.184	3.903	4.671	5.01	0	0	126	0
1041	14	87	0.04	13.15	99.08	69.3	20.7	63.2	-2	-6	2	1	0	1.39	3.704	4.599	5.01	0	0	162	0
1169	15	87.1	0.06	13.27	99.2	81.6	20.6	63.4	-4	-6	4	8	-2	1.681	3.42	4.203	5.01	0	0	279	0
1363	18	87.1	0.1	13.02	99.08	95.3	20.6	63.4	3	-3	0	6	1	1.557	3.539	4.359	5.01	0	0	502	0
1559	21	87.1	0.13	13.31	99.2	114	20.5	63.4	1	-1	-2	5	-7	1.48	3.608	4.456	5.01	0	0	682	0
1656	23	87.1	0.15	13.34	99.08	134.8	20.5	63.4	2	0	-1	1	3	1.681	3.42	4.203	5.01	0	0	813	0
1862	26	87.1	0.19	13.27	98.8	145.6	20.5	63.4	-2	-1	0	0	2	1.621	3.477	4.276	5.01	0	0	980	0
2019	27	87	0.22	13.31	98.94	157.8	20.3	63.5	0	-1	-1	2	1	1.577	3.516	4.335	5.01	0	0	1126	0
2143	29	87.1	0.22	13.34	98.68	167.3	20.2	63.5	1	-3	-1	5	-1	1.292	3.795	4.671	5.01	0	0	1254	0
2189	30	87.1	0.19	13.34	98.8	167.5	20.2	63.5	3	-1	2	-1	-1	1.212	3.875	4.671	5.01	0	0	1288	0
2194	30	87.1	0.19	12.96	98.8	167.3	20.2	63.5	2	-1	0	1	-1	1.179	3.903	4.671	5.01	0	0	1309	0
2204	30	87.1	0.19	12.93	98.8	166.5	20.1	63.5	2	-3	1	1	0	1.141	3.943	4.671	5.01	0	0	1315	0
2210	31	87	0.19	12.64	98.68	168	20	63.5	-1	-1	0	1	1	1.158	3.931	4.671	5.01	0	0	1332	0
2200	29	87	0.15	13.24	98.8	152.5	19.8	63.5	-3	-1	-2	4	-1	0.592	4.471	4.671	5.01	0	0	1425	0
2033	27	86.6	0.09	13.31	99.08	140.1	19.8	63.5	-1	4	2	-4	1	0.598	4.471	4.671	5.01	0	0	1120	0
1753	24	86.6	0.07	13.27	99.33	116	19.7	63.5	-2	0	1	0	0	0.592	4.471	4.671	5.01	0	0	809	0
1385	19	86.9	0.04	13.34	99.33	84.4	19.7	63.5	-1	2	1	1	-1	0.592	4.471	4.671	5.01	0	0	425	0
1148	15	86.9	0.03	13.27	99.2	80	19.7	63.5	2	-12	9	4	-3	1.212	3.868	4.671	5.01	0	0	252	0
1068	15	86.4	0.06	13.24	99.47	83.9	19.7	63.5	-4	-8	-10	11	3	1.669	3.431	4.217	5.01	0	0	285	0
1325	17	86.5	0.09	12.8	99.08	92.9	19.7	63.5	2	-7	-1	7	-3	1.621	3.477	4.281	5.01	0	0	452	0
1492	20	86.5	0.11	13.34	99.08	106.9	19.7	64.1	1	-6	2	5	-2	1.417	3.676	4.55	5.01	0	0	608	0
1534	21	84.3	0.08	13.34	99.33	102.9	19.7	63.7	3	-4	8	-7	0	0.781	4.289	4.671	5.01	0	0	733	0
1435	19	86.3	0.04	13.31	99.33	92.5	19.7	63.7	2	1	3	1	0	0.592	4.471	4.671	5.01	0	0	558	0
1200	16	86.3	0.03	13.31	99.33	73.3	19.7	63.4	-1	1	1	0	0	0.592	4.471	4.671	5.01	0	0	294	0
943	13	86.1	0.02	12.55	99.59	56	19.7	63.4	-2	-1	-1	0	-3	0.592	4.471	4.666	5.01	0	0	35	0
770	10	86.3	0.02	12.55	99.47	47	19.7	63.4	-8	-4	10	3	-1	0.862	4.21	4.671	5.01	0	0	-116	0
786	10	86.3	0.03	13.31	99.33	53	19.7	63.4	-5	-10	-1	-2	-3	1.115	3.977	4.671	5.01	0	0	5	0
902	12	86.3	0.04	13.31	99.59	58.7	19.7	63.4	1	-2	3	-3	-4	1.233	3.852	4.671	5.01	0	0	71	0
932	13	86.3	0.04	12.86	99.47	60.7	19.7	63.4	1	-3	5	-1	2	1.276	3.812	4.671	5.01	0	0	91	0
967	13	86.1	0.04	13.34	99.47	59.9	19.7	63.4	-1	-4	0	2	3	1.281	3.806	4.671	5.01	0	0	99	0
1020	13	86.3	0.04	12.61	99.47	61.5	19.7	63.4	-5	-3	-4	2	10	1.707	3.391	4.158	5.01	0	0	86	0
1022	14	86.1	0.06	13.34	99.47	69.5	19.7	63.4	-6	-4	-3	5	10	1.988	3.118	3.778	5.01	0	0	97	0
1065	14	86.3	0.11	13.18	99.33	75	19.7	63.4	0	-3	1	5	0	2.121	2.989	3.586	5.01	0	0	206	0
1144	15	86.3	0.14	13.31	99.33	81	19.7	63.4	-1	-6	1	4	2	2.068	3.039	3.664	5.01	0	0	221	0
1172	16	86.1	0.15	13.34	99.33	83.9	19.7	63.4	-2	-4	-2	2	-2	2.015	3.096	3.743	5.01	0	0	242	0
1163	16	86.3	0.13	12.83	99.33	81.9	19.7	63.4	-2	-3	4	1	-3	1.939	3.158	3.835	5.01	0	0	247	0
1126	15	86.3	0.11	13.34	99.47	72.9	19.7	63.4	-1	-6	6	4	-2	1.373	3.72	4.612	5.015	0	0	168	0
944	13	86.3	0.06	13.27	99.2	56.2	19.7	63.4	3	-3	4	-3	1	0.587	4.477	4.671	5.01	0	0	30	0
852	10	86.3	0.03	13.27	99.47	53.7	19.7	63.4	12	10	7	-9	-12	0.592	4.471	4.671	5.01	0	0	38	0
823	5	86.3	0.02	13.21	99.08	52.5	19.7	63.4	12	11	15	-12	-10	0.592	4.471	4.671	5.01	0	0	59	0
771	2	86.3	0.01	13.31	99.47	47	19.6	63.4	-6	-6	-4	8	-15	0.592	4.471	4.671	5.01	0	0	2	0
762	1	86.5	0.01	13.27	99.47	45.5	19.6	63.4	3	0	7	-2	-8	0.592	4.471	4.671	5.01	0	0	-6	0
757	1	86.1	0.01	13.37	99.2	48.5	19.7	63.4	-1	-1	8	3	1	1.158	3.931	4.671	5.01	0	0	16	0
834	1	86.5	0.02	13.15	99.2	52.2	19.7	63.7	-1	-5	4	4	-2	1.47	3.63	4.495	5.01	0	0	-33	0
837	0	86.5	0.03	13.4	99.08	52.5	19.7	63.5	-1	-5	4	3	-1	1.46	3.641	4.506	5.01	0	0	-19	0
798	0	86.5	0.03	13.37	99.2	55	19.7	63.5	4	-7	13	2	-3	1.449	3.648	4.525	5.01	0	0	91	0
1059	8	86.9	0.04	13.4	99.33	69.3	19.7	64	-1	-6	5	2	2	1.383	3.71	4.599	5.01	0	0	193	0
1256	9	86.9	0.06	13.34	99.2	88	19.7	64	3	-7	3	5	-4	1.26	3.829	4.671	5.005	0	0	429	0
1415	10	86.9	0.06	13.05	99.2	95.6	19.7	63.5	1	-5	1	2	1	1.174	3.92	4.671	5.01	0	0	573	0
1492	11	86.9	0.06	13.4	99.08	101.1	19.7	63.5	2	-12	6	-5	5	1.126	3.966	4.671	5.01	0	0	622	0
1464	11	86.9	0.05	13.34	99.2	96	19.7	63.5	-2	-1	-1	-1	-3	0.598	4.471	4.671	5.01	0	0	620	0
1226	10	86.9	0.04	13.31	99.47	72.6	19.7	63.5	0	1	2	0	-1	0.598	4.471</						