

NANOCOM - TD5 INSTRUMENTS - TD5 ENGINE input file

Engine spe	Road speed	Coolant te	Turbo pres	Battery vol	Ambient p	Air flow (g	Air inlet te	Fuel temp.	Cyl. 1	Cyl. 2	Cyl. 3	Cyl. 4	Cyl. 5	Accel. trac	Accel. trac	Accel. trac	Accel. sup	EGR inlet (EGR mod. (Idle speed	Wastegate mod.(%)
692	0	80.5	0	13.59	99.08	65	61.7	66	8	3	4	-2	8	0.668	4.362	4.657	4.993	0	0	-79	0
727	0	80.5	0	13.56	99.08	72.3	61.5	66	-1	-6	3	2	4	0.673	4.362	4.657	4.993	0	0	7	0
820	0	80.5	0.01	13.53	99.08	77	61.5	66.1	-6	-1	4	4	2	0.673	4.362	4.657	4.993	0	0	34	0
805	0	80.5	0.01	13.62	99.08	71.8	61.4	66.1	-6	-1	-3	-1	5	0.792	4.255	4.657	4.993	0	0	-1	0
1124	0	80.5	0.02	13.69	98.8	113.5	61.4	66.1	-1	-2	1	0	4	1.158	3.897	4.657	4.993	0	0	477	0
736	0	80.5	0.02	13.62	99.08	66	61.2	66.3	11	5	17	-6	-1	0.673	4.362	4.657	4.993	0	0	-55	0
729	0	80.5	0.01	13.78	99.08	70.6	61	66.3	-5	-3	2	1	5	0.673	4.362	4.657	4.993	0	0	16	0
818	5	80.5	0.01	13.69	99.08	76	61	66.3	-7	0	-2	-2	6	0.673	4.362	4.657	4.993	0	0	35	0
793	4	80.9	0.01	13.75	99.2	74.4	60.7	66.5	-1	-3	-1	-1	3	0.673	4.362	4.657	4.993	0	0	18	0
792	4	80.9	0.01	13.34	99.08	73.5	60.7	66.5	0	-2	1	4	1	0.673	4.362	4.657	4.993	0	0	14	0
774	3	80.9	0.01	13.62	99.08	71.3	60.5	66.5	-6	-3	2	5	1	0.673	4.362	4.657	4.993	0	0	-25	0
710	0	80.9	0	13.65	99.2	69	60.5	66.6	-1	1	2	2	-1	0.673	4.362	4.657	4.993	0	0	-13	0
832	0	80.9	0.01	13.69	99.08	77.3	60.5	66.6	-5	2	2	-1	2	0.673	4.362	4.657	4.993	0	0	54	0
817	5	81.1	0.01	13.56	99.2	76	60.5	66.6	1	-2	-2	4	1	0.673	4.362	4.657	4.993	0	0	40	0
809	6	81.1	0.01	13.65	99.08	76.5	60.4	66.6	-4	-2	1	4	0	0.673	4.362	4.657	4.993	0	0	18	0
785	4	81.1	0.01	13.69	99.08	71.8	60.2	66.9	-5	4	1	-1	-1	0.673	4.362	4.657	4.993	0	0	5	0
766	3	81.1	0.01	13.62	99.08	69.6	60.2	66.8	-1	1	-1	0	4	0.673	4.362	4.657	4.993	0	0	-10	0
956	0	81.5	0.01	13.78	98.8	107.5	60.2	66.9	-2	-2	-2	2	2	1.454	3.612	4.559	4.993	0	0	530	0
1669	0	81.5	0.15	13.72	98.94	183.3	60	66.9	-1	-1	1	0	1	1.756	3.318	4.158	4.993	0	0	1017	0
1883	11	81	0.27	13.69	98.68	218.6	60	68	-3	0	4	-1	0	1.837	3.239	4.041	4.993	33.29	0	1178	32.93
2204	18	81.5	0.48	13.65	98.29	296.2	59.9	67.1	2	0	2	-2	-3	2.015	3.056	3.792	4.993	37.02	0	1516	37.09
2497	25	81.8	0.7	13.69	97.88	404.8	59.7	67.1	0	-2	1	-2	4	2.068	3.01	3.729	4.993	39.15	0	1794	39.13
2362	30	81.8	0.69	13.65	98.15	356	59.5	67.1	-1	0	2	-3	1	2.058	3.023	3.743	4.993	40	0	1580	40
2347	35	81.8	0.64	13.72	98.29	335.5	59.4	67.1	0	0	1	-2	1	1.977	3.096	3.865	4.993	40	0	1556	40
2268	39	81.8	0.51	13.78	98.55	296.5	59.2	67.1	-1	2	1	-2	0	1.826	3.25	4.076	4.993	40	0	1471	40
2249	41	82	0.42	13.53	98.41	269.1	59	67.1	0	2	0	-2	0	1.713	3.364	4.222	4.993	0	0	1456	0
2232	44	82	0.37	13.81	98.68	259.6	58.9	67.5	1	2	0	-3	1	1.605	3.46	4.363	4.993	0	0	1455	0
2130	44	82.5	0.26	13.72	98.55	227.8	58.7	67.5	1	-1	2	0	-2	1.454	3.618	4.568	4.993	0	0	1348	0
2136	45	82.5	0.23	13.75	98.8	221	58.5	67.5	0	2	1	-1	-2	1.442	3.625	4.584	4.993	0	0	1344	0
2122	44	82.6	0.22	13.72	98.68	221.6	58.2	67.5	0	-2	2	0	-2	1.394	3.676	4.651	4.993	0	0	1327	0
2114	45	82.6	0.21	13.78	98.8	218	58.2	67.5	0	-2	3	-1	-1	1.39	3.681	4.647	4.993	0	0	1337	0
2117	45	83	0.21	13.72	98.55	223.1	57.9	67.5	0	0	2	-1	-1	1.417	3.648	4.618	4.993	0	0	1352	0
2130	45	83	0.22	13.69	98.68	230.3	57.7	67.5	0	-1	1	0	0	1.475	3.595	4.539	4.993	0	0	1361	0
2155	44	83.3	0.24	13.72	98.8	234.3	57.5	67.5	-1	1	2	-3	0	1.496	3.568	4.511	4.993	0	0	1374	0
2146	45	83.5	0.24	13.31	98.68	226.6	57.2	67.5	0	-2	2	1	-1	1.442	3.625	4.584	4.993	0	0	1355	0
2119	45	83.5	0.22	13.78	98.68	222.3	57	67.5	0	-1	3	0	-1	1.427	3.641	4.604	4.993	0	0	1335	0
2183	45	83.9	0.27	13.46	98.55	251.8	56.7	67.5	-1	6	4	-15	2	1.745	3.335	4.172	4.993	31.44	0	1489	31.2
2499	45	83.9	0.61	13.69	97.76	381.7	56.5	67.5	-2	-1	2	-2	2	2.062	3.01	3.733	4.993	33.25	0	1797	33.09
2577	48	84.1	0.72	13.75	98.15	353.7	56.2	67.5	2	1	0	-3	1	2.015	3.068	3.806	4.993	39.31	0	1582	39.06
2372	51	84.1	0.68	13.75	97.88	349.8	56	67.8	-1	1	4	-3	-3	2.085	3.01	3.704	4.993	37.65	0	1626	37.7
2491	53	84.5	0.81	13.37	97.62	400.7	55.7	67.8	-1	1	1	-2	1	2.128	2.96	3.655	4.993	37.34	0	1718	37.41
2526	57	84.8	0.81	13.75	97.88	402.2	55.5	67.3	0	-1	2	-2	0	2.105	3.006	3.68	4.993	37.18	0	1733	37.16
2570	59	84.8	0.86	13.85	97.62	425.6	55.5	67.8	0	-1	5	0	-4	2.144	2.943	3.621	4.993	37.2	0	1792	37.2
2591	62	85	0.87	13.75	97.5	429	55.2	68	0	0	2	-4	2	2.132	2.948	3.645	4.993	37.38	0	1826	37.36
2584	64	85.4	0.83	13.85	97.88	410	55.2	68	-1	2	2	-2	0	2.03	3.051	3.786	4.993	40	0	1780	40
2107	67	85.8	0.44	13.81	98.8	215.6	55	68	-2	3	3	-1	0	1.411	3.676	4.627	4.993	0	0	1099	0
1292	66	85.8	0.11	13.85	98.8	95	55	68	-1	1	1	-2	0	0.673	4.362	4.657	4.993	0	0	254	0
967	63	86	0.02	13.81	99.08	77.6	54.9	68.1	-1	-1	1	-1	0	0.673	4.362	4.657	4.993	0	0	176	0
889	60	86.3	0.01	13.78	99.2	74.8	54.9	68.1	0	-1	-1	5	0	0.673	4.362	4.657	4.993	0	0	90	0

844	57	86.5	0	13.81	98.94	71.3	54.7	68.1	-6	2	5	-4	0	0.673	4.362	4.657	4.993	0	0	47	0
813	51	86.5	0	13.65	99.08	67.5	54.7	68.1	0	2	-1	-2	4	0.673	4.362	4.657	4.993	0	0	8	0
762	46	86.5	0	13.78	99.2	64	54.7	68.4	-2	-3	-3	0	7	0.673	4.362	4.657	4.993	0	0	-25	0
754	38	86.9	0	13.75	98.94	65.9	54.7	68.4	-1	-3	-5	6	6	0.673	4.362	4.657	4.993	0	0	-52	0
733	29	87.1	0	13.81	99.08	61.7	54.7	68.4	-1	-1	-2	0	3	0.673	4.362	4.657	4.993	0	0	-66	0
754	22	87.1	0	13.62	99.08	70	54.5	68.4	-1	-3	0	3	1	0.673	4.362	4.657	4.993	0	0	29	0
800	13	87.5	0	13.78	98.94	70.4	54.5	68.4	-5	-1	0	1	-2	0.673	4.362	4.651	4.993	0	0	29	0
875	6	87.5	0.01	13.85	98.8	109.4	54.5	68.4	0	-1	-2	3	1	1.928	3.148	3.918	4.993	0	0	611	0
1829	8	87.9	0.23	13.78	98.55	208.5	54.5	68.4	-1	2	2	1	-3	2.224	2.864	3.519	4.993	32.93	0	1200	32.58
2333	17	86.1	0.67	13.85	97.62	370.2	54.4	68.5	3	-2	2	-2	-3	2.164	2.931	3.607	4.993	34.11	0	1672	33.97
2665	26	88.1	0.95	13.81	97.36	429.5	54.2	68.5	0	1	2	-10	0	2.279	2.801	3.431	4.993	35.56	0	1987	35.59
2669	34	88.5	1.06	13.85	97.09	430.8	54	68.5	2	-2	0	-2	2	2.467	2.637	3.167	4.993	35.65	0	1969	35.63
2798	40	88.5	1.06	13.94	97.09	429.1	54	68.5	1	4	0	-4	-2	2.532	2.551	3.084	4.993	35.61	0	2052	35.65
2954	48	88.5	1.08	13.94	97.23	429	53.7	68.6	-3	4	-2	-3	-1	2.536	2.556	3.079	4.993	35.58	0	2100	35.56
2799	53	88.5	1.07	13.81	96.83	429.3	53.7	68.6	0	4	0	-3	-1	2.505	2.585	3.118	4.993	35.59	0	2020	35.59
2833	60	88.5	1.08	13.85	96.7	420.7	53.7	68.9	2	2	0	-3	0	2.532	2.551	3.079	4.993	35.61	0	2079	35.61
2892	66	88.5	1.07	13.88	97.76	430.8	53.9	68.9	-2	5	0	0	-3	2.516	2.562	3.098	4.993	30.29	0	2088	26.93
2678	69	88.8	0.99	13.75	97.23	426	54	68.9	-4	4	3	-3	0	2.579	2.516	3.009	4.993	27.52	0	1920	27.34
2634	73	88.8	0.86	13.5	96.97	400.7	54.2	68.9	-2	0	6	-2	-2	2.596	2.489	2.99	4.993	27.62	0	1821	27.45
2846	77	89	1.06	13.91	96.97	429	54.5	69.1	-1	7	-1	-5	-2	2.585	2.516	3.009	4.988	30.29	0	2077	30.13
2886	81	89	1.08	13.88	97.09	427.6	54.7	69.1	-2	4	1	-3	-1	2.683	2.421	2.868	4.993	32.86	0	2125	32.7
2915	85	88.9	1.1	13.94	96.97	427.6	54.9	69.1	-2	3	2	-3	-2	2.704	2.381	2.839	4.988	35.36	0	2148	35.22
2954	90	89	1.13	13.91	96.97	422.7	55	69.1	0	1	2	-1	-2	2.677	2.421	2.878	4.993	35.65	0	2187	35.63
2966	93	89	0.9	13.78	98.55	311.5	55.4	69.1	3	4	5	-7	-5	2.559	2.631	3.049	4.993	30.37	0	1328	30.1
2572	94	89	0.87	13.85	96.97	427.6	55.5	69.1	0	4	1	-3	-2	2.585	2.529	3.015	4.993	27.95	0	2066	27.8
2902	96	89.3	1.02	13.59	97.62	430.8	55.7	69.1	0	1	3	-2	-1	2.289	2.789	3.431	4.993	32.81	0	2042	32.43
2621	97	89.3	0.71	13.88	98.41	329.2	55.9	69.1	-2	0	4	-3	1	1.659	3.403	4.29	4.993	0	0	1655	0
2188	99	89.3	0.27	13.75	98.8	207.1	56	69.1	2	1	1	0	3	1.266	3.783	4.657	4.988	0	0	1340	0
2094	96	89.5	0.12	13.75	98.68	181.5	56	69.1	0	0	2	0	0	0.673	4.356	4.657	4.993	0	0	1283	0
2019	93	89.5	0.06	13.78	98.94	167.6	56	69.1	-2	3	-1	-1	1	0.845	4.192	4.657	4.988	0	0	1201	0
1930	89	89.5	0.13	13.88	98.68	174.8	56	69.1	-2	2	0	-2	0	1.33	3.743	4.657	4.993	0	0	1152	0
1949	89	90	0.22	13.91	98.94	197.3	55.9	69.1	-1	2	2	0	-1	1.674	3.385	4.265	4.993	0	0	1177	0
1961	90	90	0.25	13.78	98.68	195.8	55.7	69.1	1	-1	1	-1	0	1.454	3.618	4.573	4.993	0	0	1192	0
1976	91	90	0.21	13.75	98.94	195.8	55.5	69.1	0	1	1	-1	1	1.238	3.823	4.657	4.993	0	0	1197	0
1995	91	90	0.08	13.81	98.94	176.8	55.2	69.1	0	1	-1	2	4	0.673	4.356	4.657	4.993	0	0	1230	0
1993	92	90	0.05	13.78	98.94	166.8	55.2	69.1	-1	3	0	-1	1	0.673	4.356	4.657	4.993	0	0	1197	0
1941	89	90	0.05	13.85	98.94	161.5	54.9	69.1	-1	3	0	-2	0	0.673	4.356	4.657	4.993	0	0	1156	0
1883	86	90	0.04	13.91	98.94	151.8	54.5	69.1	-1	2	2	-2	0	0.84	4.192	4.657	4.988	0	0	1082	0
1818	83	90	0.08	13.97	98.94	163.5	54.2	69.1	-2	0	-1	1	2	1.049	4	4.657	4.988	0	0	1017	0
1770	81	90	0.08	13.91	99.08	150.6	54	69.1	-2	2	-2	0	1	1.023	4.017	4.662	4.993	0	0	998	0
1739	80	89.6	0.08	13.85	98.8	153.8	53.7	69.1	2	-1	3	3	4	1.082	3.966	4.657	4.988	0	0	928	0
1713	79	89.6	0.1	13.91	98.8	161.6	53.4	69.4	-2	1	0	0	2	1.2	3.852	4.657	4.993	0	0	1081	0
1821	78	89.6	0.12	13.75	99.08	159.6	53	69.4	-1	1	1	-2	0	1.12	3.926	4.657	4.993	0	0	1018	0
1803	77	89.6	0.12	13.91	98.8	158.6	52.7	69.5	0	1	-4	-2	0	1.103	3.943	4.657	4.993	0	0	971	0
1630	75	89.4	0.07	13.72	98.94	123.8	52.5	69.5	-1	0	2	-1	-1	0.678	4.356	4.657	4.993	0	0	630	0
1220	74	89.4	0.02	13.94	99.2	95.5	52.2	69.8	-1	1	0	-1	0	0.862	4.186	4.657	4.993	0	0	384	0
1691	72	89.4	0.05	13.85	99.08	146	51.9	69.8	-2	-1	2	0	2	1.082	3.966	4.657	4.993	0	0	936	0
1753	72	89.4	0.11	13.46	98.94	156.6	51.7	70	-1	-1	1	1	0	1.162	3.885	4.657	4.993	0	0	983	0
1762	72	89.4	0.12	13.81	98.8	161.8	51.4	70	-1	0	-1	-1	1	1.115	3.931	4.657	4.993	0	0	968	0
1728	71	89.4	0.12	13.91	98.8	150.5	51	70.1	-2	3	1	-2	1	1.093	3.954	4.657	4.993	0	0	937	0
1709	71	89	0.11	13.91	98.8	146.3	50.7	70.1	0	1	1	-1	1	1.126	3.92	4.657	4.993	0	0	927	0
1727	70	89	0.11	13.75	98.94	150.8	50.2	70.5	1	0	0	0	0	1.131	3.92	4.657	4.993	0	0	952	0

1760	70	89	0.13	13.91	98.94	159.5	50	70.5	-1	1	0	-1	2	1.179	3.868	4.657	4.993	0	0	985	0
1805	70	89	0.15	13.5	99.08	164.3	49.7	70.5	0	2	0	-1	0	1.309	3.743	4.657	4.993	0	0	1029	0
1825	70	89	0.17	13.78	99.08	169.6	49.5	70.5	0	2	1	-2	0	1.33	3.727	4.657	4.993	0	0	1041	0
1815	70	89	0.17	13.88	98.94	169.3	49.2	71	0	-1	-2	2	-2	1.302	3.75	4.657	4.993	0	0	1011	0
1807	70	89	0.18	13.4	98.8	170.3	49	71	-1	0	2	-1	0	1.34	3.72	4.657	4.993	0	0	1042	0
1831	70	89	0.2	13.94	98.8	173.1	48.7	71	-1	-1	0	-1	1	1.373	3.687	4.657	4.993	0	0	1053	0
1838	70	89	0.21	13.91	98.8	179.6	48.5	71	-2	0	1	0	0	1.373	3.687	4.657	4.993	0	0	1062	0
1848	71	89	0.21	13.78	98.94	177.6	48.2	71	-2	1	2	-2	1	1.449	3.618	4.568	4.988	0	0	1077	0
1860	71	89	0.22	13.85	98.94	179.8	48	71	0	0	1	-1	1	1.422	3.641	4.604	4.993	0	0	1080	0
1872	71	89	0.23	13.81	98.94	181	47.7	71	-3	2	0	-1	2	1.427	3.641	4.593	4.993	0	0	1093	0
1890	70	89.3	0.24	13.81	98.68	188.1	47.5	71	-3	2	1	-1	1	1.514	3.545	4.477	4.993	0	0	1124	0
1920	70	89	0.25	13.81	98.68	193.5	47.2	71.3	-2	3	3	-4	-1	1.567	3.5	4.413	4.993	0	0	1164	0
2063	70	89.3	0.35	13.85	98.68	221.5	47.2	71.3	0	0	0	0	1	1.681	3.391	4.265	4.993	0	0	1276	0
2049	71	89.3	0.37	13.85	98.68	225.8	47	71.8	-1	0	1	0	-1	1.669	3.398	4.27	4.993	0	0	1273	0
2053	72	91.9	0.36	13.69	98.68	215.1	46.7	71.4	0	-1	0	1	-1	1.654	3.408	4.29	4.993	0	0	1268	0
2042	72	89.4	0.35	13.91	98.55	217.8	46.7	71.4	-2	-2	2	0	1	1.605	3.46	4.359	4.993	0	0	1244	0
2017	73	89.4	0.32	13.85	98.8	208	46.4	71.5	-1	0	1	-1	0	1.584	3.483	4.397	4.993	0	0	1228	0
2011	74	89.4	0.31	13.91	98.68	207.8	46.4	71.5	-2	-1	1	1	-1	1.594	3.466	4.374	4.993	0	0	1247	0
1975	74	89.4	0.27	14	98.94	193.8	46.2	71.5	-1	3	2	-3	-1	1.465	3.602	4.559	4.993	0	0	1171	0
1912	75	89.4	0.21	14	99.08	180.6	46.2	71.8	-1	2	1	-2	-1	1.352	3.71	4.657	4.993	0	0	1108	0
1867	75	89.4	0.18	13.53	99.08	170.3	46	71.6	-1	2	0	-1	-1	1.309	3.743	4.657	4.993	0	0	1092	0
1870	75	89.4	0.17	13.94	98.94	175.1	46	71.6	-2	1	2	-1	0	1.32	3.737	4.657	4.993	0	0	1093	0
1869	75	89.4	0.17	14.03	98.8	167.8	45.9	71.8	-1	1	1	-1	0	1.146	3.908	4.657	4.988	0	0	1057	0
1746	77	89.4	0.1	13.85	98.8	130.3	45.7	71.8	-1	3	1	-3	5	0.684	4.352	4.657	4.993	0	0	717	0
1316	75	89.4	0.03	13.97	99.33	102.9	45.7	71.8	-1	2	1	0	0	0.673	4.356	4.657	4.993	0	0	493	0
1222	74	89.4	0.01	13.85	99.47	92.9	45.7	71.8	-1	2	-1	0	0	0.673	4.356	4.657	4.993	0	0	414	0
1134	73	89.4	0.01	13.94	99.33	88.5	45.5	71.8	-1	0	0	0	1	0.673	4.362	4.657	4.993	0	0	327	0
1029	72	89.4	0	13.91	99.08	78.5	45.5	71.8	0	0	0	1	-1	0.673	4.356	4.657	4.993	0	0	211	0
946	71	89.4	0	13.59	99.08	76	45.5	71.8	-1	0	1	0	0	0.673	4.356	4.657	4.993	0	0	174	0
1492	70	89.4	0.01	13.5	99.2	130.3	45.5	71.8	-2	-1	0	0	2	1.082	3.97	4.657	4.993	0	0	874	0
1715	69	89.4	0.1	13.88	99.2	150.5	45.5	71.8	-2	1	0	0	0	1.2	3.845	4.657	4.993	0	0	966	0
1765	69	89.4	0.13	13.53	99.08	159.8	45.5	71.8	-2	1	1	0	-1	1.228	3.823	4.657	4.993	0	0	992	0
1781	70	89.4	0.14	13.94	98.94	161.5	45.4	71.8	-2	3	1	0	-1	1.228	3.829	4.657	4.993	0	0	997	0
1757	70	89.4	0.14	14	98.94	153.1	45.2	72	-1	1	1	0	-1	1.136	3.914	4.657	4.993	0	0	956	0
1562	70	89.4	0.08	13.85	98.94	119.8	45.2	72	-1	3	-1	-1	-1	0.835	4.204	4.657	4.993	0	0	560	0
1126	69	89.4	0.02	13.97	99.47	87.4	44.9	72	-1	0	1	-1	1	0.673	4.356	4.657	4.993	0	0	281	0
959	67	89.4	0.01	14	99.2	73	44.7	72	-1	1	1	0	0	0.673	4.356	4.657	4.993	0	0	134	0
845	64	89.4	0	13.85	99.33	64	44.7	72	-3	3	-6	2	-4	0.673	4.356	4.657	4.993	0	0	56	0
839	61	89.4	0	13.97	99.08	63.7	44.7	72	0	1	-3	3	7	0.673	4.356	4.657	4.993	0	0	9	0
810	57	89.4	0	13.94	99.2	64.8	44.7	72.3	-4	-5	-1	-3	-4	0.673	4.356	4.657	4.993	0	0	30	0
788	52	89.4	0	13.97	99.2	63	44.5	72.3	-7	-2	2	0	3	0.673	4.356	4.657	4.993	0	0	-3	0
739	47	89.4	0	14.07	99.47	59.2	44.5	72.3	-4	0	1	1	2	0.673	4.356	4.657	4.993	0	0	-38	0
758	45	89.4	0	13.88	99.33	63	44.5	72.3	-5	-2	0	2	5	0.948	4.09	4.657	4.993	0	0	18	0
1208	45	89.5	0.02	13.56	98.94	105.3	44.7	72.3	-1	-1	0	1	1	1.146	3.897	4.657	4.988	0	0	545	0
1709	45	89.5	0.13	13.85	99.08	165.8	44.5	72.3	0	2	2	-1	0	1.745	3.329	4.169	4.993	32	0	1117	31.64
2106	47	89.5	0.4	13.94	98.55	251.8	44.5	72.3	1	-8	5	0	1	1.911	3.153	3.938	4.993	37.18	0	1395	36.93
2378	50	89.5	0.73	13.85	97.88	363.8	44.4	72.5	0	2	2	-4	-3	2.132	2.948	3.635	4.993	37.47	0	1687	37.52
2491	55	89.5	0.84	14.07	97.88	387.6	44.2	72.5	-1	2	3	-4	-1	2.095	2.983	3.69	4.993	38.4	0	1711	38.18
2473	58	89.5	0.76	13.85	98.29	351.8	44.2	72.5	-1	0	3	-1	0	1.95	3.125	3.9	4.993	40	0	1649	40
2292	61	89.5	0.55	14	98.68	277.2	44	72.5	1	0	1	-1	-1	1.691	3.375	4.251	4.993	0	0	1464	0
1871	62	90	0.3	13.94	99.2	171.1	44	72.5	-2	1	1	-1	0	1.276	3.778	4.657	4.993	0	0	968	0
1636	62	90	0.16	13.69	99.08	139.1	44	72.5	-1	0	1	0	-1	1.297	3.772	4.657	4.993	0	0	851	0

1705	61	90	0.17	13.91	98.94	157.8	43.9	72.5	-2	0	1	-1	1	1.589	3.477	4.374	4.993	0	0	1022	0
1999	61	90	0.32	13.78	98.55	221.8	43.9	72.5	1	-2	1	-1	0	1.863	3.216	4.012	4.993	34.43	0	1315	34.16
2226	63	90	0.56	13.91	98.55	294.5	43.9	73.5	1	1	1	-3	1	2.019	3.068	3.792	4.993	39	0	1531	38.75
2337	66	90	0.7	13.91	98.29	318.7	44	73.5	1	-1	2	-1	0	1.993	3.079	3.835	4.993	40	0	1556	40
2365	68	90	0.74	13.85	98.15	338.3	44	72.8	0	1	1	-2	0	2.132	2.943	3.631	4.993	37.65	0	1651	37.7
2456	69	90.3	0.84	13.65	98.01	365.7	44	72.8	0	0	6	-2	0	2.085	2.989	3.704	4.993	38.75	0	1649	38.74
2436	71	90	0.82	13.65	98.01	362.5	44.2	72.8	0	-1	3	0	-3	2.079	3	3.719	4.993	38.63	0	1656	38.7
2505	73	90	0.94	13.72	97.5	430.8	44.2	72.8	0	0	3	-2	-1	2.273	2.806	3.444	4.993	35.61	0	1823	35.61
2755	77	90	1.06	13.97	97.5	424.8	44.5	72.8	2	0	2	-4	0	2.45	2.641	3.196	4.993	35.72	0	1996	35.72
2789	79	90	1.06	14.03	98.94	435.3	44.7	73.5	-5	-2	10	-11	33	2.553	3.278	3.059	4.993	0	0	1627	0
2420	80	90	0.49	13.69	98.29	232.6	45	72.8	-6	-1	-5	5	-11	2.52	2.562	3.098	4.993	27.47	0	1522	27.31
2822	82	90	1.01	14.07	97.36	431.2	45.2	72.8	3	2	-1	-3	-2	2.418	2.676	3.25	4.993	30.57	0	2041	30.39
2826	85	90	1.01	13.88	97.23	433.5	45.5	72.5	1	4	-1	-4	0	2.434	2.654	3.23	4.988	33.15	0	2062	33
2871	88	90	1.05	13.91	97.09	424.8	45.7	72.6	1	6	0	-1	-5	2.434	2.654	3.23	4.993	35.7	0	2094	35.56
2902	91	90	1.08	14	97.09	431.3	46	72.5	0	0	-1	0	-2	2.5	2.585	3.128	4.993	35.65	0	2146	35.65
3008	94	90	1.06	14.03	97.23	433.5	46.5	72.6	-2	0	5	1	-4	2.602	2.477	2.97	4.993	0	0	2228	35.75
2904	96	90.3	1.03	13.81	97.23	431.3	46.7	72.5	-1	4	1	1	-2	2.516	2.573	3.112	4.993	28.3	0	2180	28.2
2974	99	90.3	1	14.07	97.09	432.7	47.2	72.6	-3	5	2	-6	2	2.413	2.687	3.263	4.993	30.9	0	2179	30.76
2957	101	90.3	1.01	13.81	97.5	419.6	47.5	72.6	-1	3	1	-2	-3	2.332	2.762	3.367	4.993	34.22	0	2145	33.91
2592	103	90.3	0.81	13.94	98.55	306.5	47.7	72.6	1	2	6	-5	-1	1.965	3.118	3.885	4.993	39.81	0	1458	39.72
2250	103	90.3	0.41	13.94	98.68	231.3	48	72.5	-1	2	3	-4	1	1.46	3.608	4.565	4.993	0	0	1462	0
2235	103	90.3	0.26	13.94	98.8	213.8	48.2	72.5	-1	0	1	-3	3	1.325	3.727	4.657	4.993	0	0	1452	0
2205	102	90.3	0.25	13.91	98.8	213.8	48.2	72.5	0	0	2	-1	0	1.519	3.539	4.477	4.993	0	0	1420	0
2196	101	90.3	0.37	14.07	98.55	226.8	48.2	72.5	1	0	2	-2	-1	1.605	3.46	4.359	4.993	0	0	1414	0
2185	101	90.3	0.32	13.94	98.8	218.8	48.2	72.5	-1	-3	0	-3	0	1.508	3.551	4.486	4.993	0	0	1406	0
2175	100	90.6	0.35	13.97	98.8	219.8	48.2	72.5	2	-1	0	-2	1	1.577	3.483	4.402	4.993	0	0	1392	0
2169	100	90.6	0.36	13.97	98.68	225.1	48.2	72.5	1	-1	4	-3	-1	1.539	3.523	4.452	4.988	0	0	1385	0
2162	100	90.4	0.34	13.75	98.68	221.8	48	72.5	-1	0	3	-2	0	1.546	3.516	4.447	4.993	0	0	1379	0
2154	99	90.4	0.31	14	98.68	215	47.9	72.5	0	0	2	0	-1	1.437	3.625	4.589	4.993	0	0	1368	0
2149	99	90.4	0.25	14	98.94	205.8	47.7	72.5	1	2	3	-2	-1	1.314	3.733	4.657	4.993	0	0	1362	0
2130	97	90.4	0.25	14.03	98.8	198.8	47.2	72.5	0	0	2	-2	-1	1.352	3.704	4.657	4.988	0	0	1351	0
2120	97	90.4	0.24	14.03	98.94	202	47.2	72.6	-2	1	1	-1	0	1.276	3.778	4.657	4.993	0	0	1334	0
2108	96	90.4	0.1	13.94	98.94	172.8	47	72.5	-1	0	3	2	0	0.673	4.356	4.662	4.993	0	0	1300	0
2054	94	90.4	0.08	14.03	98.94	174	46.7	72.5	0	1	1	0	-2	0.975	4.072	4.657	4.993	0	0	1273	0
2021	93	90.4	0.12	13.94	98.8	170.1	46.5	72.5	-2	1	1	1	-2	0.991	4.051	4.657	4.993	0	0	1240	0
1994	92	90.4	0.13	14	99.08	171.3	46.4	72.5	0	1	0	-1	-1	1.011	4.033	4.657	4.993	0	0	1206	0
1961	90	90	0.13	13.88	99.08	168.8	46.2	72.6	-1	1	1	-2	-2	0.986	4.061	4.657	4.993	0	0	1181	0
1935	89	89.6	0.15	13.97	98.8	174.3	46	72.6	-1	3	2	-2	-1	1.292	3.76	4.657	4.993	0	0	1143	0
1911	88	89.6	0.21	13.97	99.08	180.5	45.9	72.6	1	1	-1	1	0	1.432	3.635	4.589	4.993	0	0	1125	0
1896	86	89.6	0.21	14.03	99.08	176.8	45.7	72.9	1	-1	0	-2	-1	1.314	3.737	4.657	4.993	0	0	1113	0
1878	86	89.4	0.18	13.94	99.08	165.3	45.7	72.9	-1	1	2	-2	0	1.184	3.862	4.657	4.993	0	0	1091	0
1855	85	89.4	0.17	14	98.94	159.6	45.5	72.9	-1	1	1	-1	0	1.281	3.772	4.657	4.988	0	0	1075	0
1843	84	89.4	0.19	13.88	99.08	163.8	45.4	72.9	0	1	-1	0	-1	1.368	3.687	4.657	4.993	0	0	1059	0
1832	84	89.4	0.24	14	98.94	170.3	45.2	72.8	-3	1	1	-2	1	1.616	3.448	4.348	4.993	0	0	1059	0
1837	84	89	0.26	14.03	99.08	176.8	45	73.1	-2	1	2	-2	0	1.605	3.46	4.368	4.993	0	0	1055	0
1840	84	91.5	0.26	13.97	99.08	176	45	73.1	-2	1	1	0	0	1.616	3.46	4.348	4.982	0	0	1057	0
1836	84	89	0.27	13.94	98.8	177.3	44.9	73.1	-1	2	2	-1	0	1.643	3.431	4.315	4.993	0	0	1062	0
1843	84	89	0.32	14	98.94	182.5	44.7	73.1	-1	2	1	-3	1	1.826	3.243	4.056	4.988	0	0	1067	0
1862	85	89	0.39	14	98.8	197.8	44.7	73.5	-1	-1	1	-1	-1	1.783	3.306	4.133	4.993	0	0	1087	0
1876	85	89	0.36	14	99.08	190.6	44.5	73.5	-2	0	1	2	1	1.756	3.318	4.164	4.988	0	0	1105	0
1887	86	89	0.32	13.97	99.08	185.8	44.4	73.5	0	1	1	-2	0	1.605	3.46	4.368	4.993	0	0	1109	0
1891	86	88.9	0.25	13.94	98.8	176.8	44.2	73.5	0	2	2	-2	-1	1.363	3.687	4.657	4.993	0	0	1109	0

1872	86	89	0.14	13.94	99.2	152.5	44.2	73.5	-5	-5	-13	-1	3	0.721	4.322	4.657	4.993	0	0	1112	0
1833	84	89	0.06	13.94	99.2	142.8	44	73.5	0	3	0	0	1	0.673	4.362	4.657	4.993	0	0	1030	0
1757	81	89.3	0.04	14.03	99.2	135.3	43.9	73.9	-1	1	0	0	-1	0.673	4.362	4.657	4.993	0	0	953	0
1527	78	89.3	0.04	14	98.94	111.4	43.7	73.9	-1	1	1	-1	0	0.673	4.362	4.657	4.993	0	0	629	0
1283	74	89.3	0.02	13.97	99.08	95.4	43.5	73.9	-2	2	1	-1	0	0.673	4.362	4.657	4.993	0	0	458	0
1159	71	89.3	0.01	13.97	99.47	86.5	43.5	73.9	0	0	-1	0	0	0.673	4.362	4.657	4.993	0	0	341	0
1028	67	89.3	0.01	13.94	99.47	75.1	43.5	73.9	1	-1	0	0	0	0.673	4.362	4.657	4.988	0	0	202	0
1479	64	89.3	0.03	14	98.8	135.3	43.2	73.9	-1	-1	0	0	1	1.352	3.704	4.657	4.993	0	0	952	0
1937	64	89.3	0.2	14.03	98.94	181.8	43.2	73.9	-1	1	0	0	0	1.475	3.585	4.534	4.993	0	0	1133	0
1826	66	89.3	0.2	13.78	99.08	167.3	43.2	73.9	0	0	2	-1	0	1.34	3.727	4.657	4.993	0	0	1045	0
1797	67	89.3	0.18	13.72	98.94	158.3	43	73.9	0	1	1	-2	-1	1.276	3.772	4.657	4.993	0	0	1005	0
1774	67	89.3	0.17	13.97	99.2	154.6	42.9	73.9	0	-1	2	-1	1	1.271	3.783	4.657	4.993	0	0	1001	0
1807	67	89.5	0.18	13.69	98.94	155.6	42.7	74.5	1	0	1	-2	0	1.281	3.766	4.657	4.993	0	0	1021	0
1778	68	89.5	0.17	14	99.08	154.6	42.5	74	-1	0	-1	-2	2	1.238	3.818	4.657	4.993	0	0	991	0
1754	68	89.5	0.15	13.81	98.94	151.8	42.4	74	-1	-1	0	-1	1	1.179	3.868	4.657	4.993	0	0	965	0
1738	68	89.5	0.15	13.94	99.08	151.8	42.2	74	-1	1	1	-1	0	1.179	3.868	4.657	4.993	0	0	963	0
1746	68	89.5	0.15	13.97	99.2	149.6	42	75.4	-1	1	1	-2	0	1.233	3.823	4.657	4.993	0	0	978	0
1762	68	89.5	0.16	14	99.08	151.3	41.9	74.1	-1	2	1	-2	0	1.255	3.801	4.657	4.993	0	0	994	0
1777	67	89.5	0.17	14	98.94	154.1	41.7	74.1	-2	2	2	-3	0	1.243	3.812	4.657	4.993	0	0	987	0
1739	67	89.5	0.17	13.65	99.2	154.8	41.5	74.1	0	0	2	-1	0	1.195	3.858	4.662	4.993	0	0	952	0
1690	67	89.5	0.15	13.94	99.2	142.1	41.5	74.3	-2	2	1	-2	0	1.12	3.937	4.657	4.993	0	0	885	0
1497	66	89.5	0.09	13.97	99.08	116.6	41.2	74.3	-2	1	-1	1	2	0.975	4.072	4.657	4.993	0	0	663	0
1040	64	89.5	0.04	14	99.08	76.9	41.2	74.3	-1	-1	2	1	0	0.673	4.356	4.657	4.993	0	0	211	0
957	62	90	0.01	13.94	99.47	72	41.2	74.3	-1	0	1	-1	1	0.673	4.356	4.657	4.993	0	0	169	0
933	61	90	0.01	13.91	99.47	68	41	74.3	-1	0	1	-1	1	0.673	4.356	4.657	4.988	0	0	137	0
875	59	90	0	13.91	99.2	63.2	41	75.9	-4	5	-10	4	5	0.673	4.356	4.657	4.993	0	0	78	0
825	56	90	0	13.94	99.2	63.9	40.9	74.4	0	-1	10	-4	11	0.673	4.356	4.657	4.993	0	0	36	0
800	52	90	0	14	99.2	57.5	41	74.4	-5	-3	-3	4	4	0.673	4.362	4.657	4.993	0	0	21	0
762	49	90	0	13.91	99.2	57.4	41	74.4	-4	-3	1	2	6	0.673	4.356	4.657	4.993	0	0	-20	0
747	45	89.6	0	13.75	99.33	57.9	41	74.4	-2	0	-1	0	3	0.673	4.362	4.657	4.993	0	0	-38	0
1094	41	90	0.01	13.69	98.94	101.8	41	74.5	-1	-3	1	1	4	1.238	3.812	4.657	4.993	0	0	620	0
1764	40	90	0.17	14	98.94	172.6	41	74.4	-1	1	2	-2	0	1.783	3.283	4.114	4.993	32.61	0	1167	32.25
2169	42	90	0.49	13.94	98.29	267.6	41	74.4	2	2	2	-1	-2	1.96	3.108	3.875	4.993	37.54	0	1478	37.22
2274	46	90	0.62	13.97	98.29	289.1	41	74.4	3	1	0	-2	1	1.939	3.135	3.91	4.993	40	0	1495	40
2280	48	90	0.63	13.91	98.55	290.7	41	74.4	-2	3	1	-6	3	1.934	3.131	3.914	4.993	40	0	1508	40
2286	51	90.3	0.6	14	98.68	273.7	41	74.4	2	0	0	-3	2	1.788	3.289	4.125	4.993	0	0	1465	0
1777	52	90	0.2	14	98.8	135.1	41	74.4	-2	0	1	0	1	0.942	4.112	4.657	4.993	0	0	788	0
1239	51	90.3	0.05	13.91	99.2	91	41	74.4	-1	2	0	1	1	0.673	4.362	4.657	4.993	0	0	375	0
1017	48	90.3	0.02	14	99.33	70.6	41	74.5	1	0	-1	-1	1	0.673	4.362	4.657	4.993	0	0	174	0
866	44	90.3	0	13.91	99.2	60.5	41	74.5	0	2	4	2	2	0.673	4.362	4.657	4.993	0	0	63	0
836	38	90.3	0	13.91	99.2	57.4	41	74.5	0	2	-8	6	0	0.673	4.362	4.657	4.993	0	0	57	0
750	33	90.3	0	13.97	99.33	59.2	41	74.5	-4	-5	1	-2	-3	0.673	4.362	4.657	4.993	0	0	27	0
747	26	90.3	0	13.85	99.2	55.2	41.2	74.5	-2	-3	4	3	5	0.673	4.362	4.657	4.993	0	0	-29	0
741	19	90.3	0	13.88	99.2	56	41.2	74.5	-2	-1	3	1	4	0.673	4.356	4.657	4.993	0	0	-35	0
774	13	90.3	0	13.88	99.2	58.2	41.2	74.5	-4	-3	-1	3	2	0.673	4.362	4.657	4.993	0	0	-3	0
788	7	90.3	0	13.88	99.33	56.5	41.2	74.5	-5	0	0	4	1	0.673	4.362	4.657	4.993	0	0	-9	0
765	4	90.6	0	13.85	99.2	59.9	41.5	74.5	-5	-1	-1	2	1	0.673	4.362	4.657	4.993	0	0	-12	0
775	3	90.6	0	13.97	99.33	60.2	41.5	74.5	-5	0	-1	3	1	0.673	4.362	4.657	4.993	0	0	-1	0
778	3	90.6	0.01	13.94	98.94	57.4	41.5	74.5	-3	0	2	3	3	1.06	3.993	4.657	4.993	0	0	121	0
1603	3	90.6	0.1	13.91	98.94	155.1	41.5	76	-1	0	2	-1	0	1.831	3.25	4.051	4.993	31.71	0	1084	31.36
2210	13	90.6	0.5	14.03	98.41	272	41.5	74.6	1	1	1	-3	0	1.982	3.091	3.855	4.988	36.4	0	1497	36.16
2435	22	90.6	0.78	13.85	97.76	389.6	41.7	74.6	0	0	4	-2	-2	2.154	2.931	3.611	4.993	37.36	0	1790	37.31

2534	28	91	0.86	13.94	97.88	372.3	41.7	74.6	1	1	0	-1	-3	2.154	2.937	3.611	4.993	37.18	0	1680	37.27
2520	34	91	0.92	14.03	97.62	390.7	41.7	75.9	1	-1	0	-2	3	2.154	2.931	3.621	4.993	37.18	0	1758	37.18
2566	39	92.1	0.93	14	97.88	408.7	41.7	75.9	0	-2	4	-3	1	2.132	2.943	3.645	4.988	37.22	0	1809	37.22
2627	44	90.8	0.92	13.97	97.76	415	41.7	74.8	-3	0	5	-3	1	2.121	2.971	3.664	4.993	37.56	0	1999	37.54
2664	47	91	0.88	13.88	97.88	405	42	74.8	-4	2	3	-3	2	2.058	3.029	3.743	4.988	39.65	0	1872	39.09
2348	49	91	0.71	13.75	98.68	311.3	42.2	74.8	-1	1	2	-2	0	1.906	3.17	3.963	4.993	40	0	1498	40
2063	50	90.8	0.41	13.94	98.68	201.1	42.5	75	0	1	1	0	-1	1.503	3.556	4.506	4.993	0	0	1181	0
1817	50	90.8	0.24	13.53	98.94	162.3	42.7	75	-1	0	1	-1	0	1.223	3.823	4.657	4.993	0	0	995	0
1420	49	90.8	0.09	14	99.08	94.5	42.7	75	0	3	0	-1	2	0.813	4.227	4.657	4.993	0	0	359	0
994	46	90.4	0.03	13.91	99.08	75.1	43	75	0	-3	1	2	1	0.673	4.356	4.657	4.993	0	0	192	0
956	44	90.4	0.01	14.03	99.08	73.5	43	75	0	-1	1	0	0	0.673	4.356	4.657	4.993	0	0	157	0
871	38	90.4	0	14	99.2	64.3	43.2	75	-7	1	4	3	6	0.673	4.356	4.657	4.988	0	0	70	0
805	30	90.4	0	13.85	99.2	63	43.2	75	-1	-4	0	2	3	0.673	4.356	4.657	4.993	0	0	-2	0
737	23	90.4	0	14	99.33	54.5	43.4	75	-10	-1	-10	8	1	0.673	4.362	4.657	4.993	0	0	-71	0
731	15	90.4	0	13.69	99.08	58.9	43.5	75	1	-2	2	0	3	0.673	4.362	4.657	4.993	0	0	20	0
815	13	90.4	0.01	14.1	99.08	60.7	43.5	74.8	-4	0	1	2	2	0.673	4.356	4.657	4.993	0	0	20	0
810	13	90.4	0.01	13.88	99.33	63.5	43.5	74.8	-4	0	1	0	3	0.673	4.356	4.657	4.993	0	0	31	0
797	14	90.4	0	13.88	99.33	61	43.5	74.8	-4	0	-2	1	3	0.673	4.356	4.657	4.993	0	0	21	0
792	14	90.4	0	13.94	99.33	60	43.7	74.8	-2	-1	-1	3	2	0.673	4.356	4.657	4.993	0	0	4	0
743	14	90.6	0	13.85	99.33	56.7	43.7	74.8	-4	1	1	1	0	0.673	4.356	4.657	4.993	0	0	-22	0
790	14	90.6	0	13.88	99.08	60.2	43.7	74.8	-4	1	1	3	2	0.673	4.356	4.657	4.993	0	0	10	0
767	11	90.6	0	13.91	99.2	59.4	43.7	74.8	-2	0	-1	3	3	0.673	4.362	4.657	4.993	0	0	-18	0
766	5	90.6	0.01	13.46	99.08	59.9	43.7	74.8	-2	-1	1	1	1	0.673	4.356	4.657	4.993	0	0	-3	0
769	3	90.6	0	13.62	99.2	60.2	43.9	74.8	-1	-1	-2	1	0	0.673	4.356	4.657	4.993	0	0	-6	0
746	0	91	0	13.97	99.08	62.7	43.9	74.8	-3	-1	-2	-3	-9	0.673	4.362	4.657	4.988	0	0	71	0
816	0	91	0	13.85	99.08	59.2	43.9	74.8	-2	0	-3	1	1	0.673	4.356	4.657	4.993	0	0	34	0
763	0	91	0	13.88	99.33	58.5	43.9	74.8	-2	2	-4	0	1	0.673	4.356	4.657	4.993	0	0	0	0
762	0	91	0	13.91	99.2	62.2	44	75	-1	0	-3	3	0	0.673	4.356	4.657	4.988	0	0	3	0
762	0	91	0	13.81	99.2	58	43.9	75	-1	1	-2	3	1	0.673	4.356	4.657	4.993	0	0	9	0
764	0	91	0	14.03	99.33	55.7	44	75	-2	2	-1	1	0	0.673	4.356	4.657	4.993	0	0	3	0
761	0	91.5	0	13.85	99.33	57	44	75	-1	1	-2	1	0	0.673	4.356	4.657	4.993	0	0	3	0
763	0	91.5	0	13.85	99.33	58.5	44	75	-1	0	-2	2	1	0.673	4.356	4.657	4.993	0	0	5	0