

ISENTROPIC FLOW PROPERTIES

k

1.4

M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
0.005	1.0000	1.0000	1.0000	115.7425
0.010	1.0001	1.0001	1.0000	57.8738
0.015	1.0002	1.0001	1.0000	38.5855
0.020	1.0003	1.0002	1.0001	28.9421
0.025	1.0004	1.0003	1.0001	23.1568
0.030	1.0006	1.0005	1.0002	19.3005
0.035	1.0009	1.0006	1.0002	16.5465
0.040	1.0011	1.0008	1.0003	14.4815
0.045	1.0014	1.0010	1.0004	12.8757
0.050	1.0018	1.0013	1.0005	11.5914
0.055	1.0021	1.0015	1.0006	10.5410
0.060	1.0025	1.0018	1.0007	9.6659
0.065	1.0030	1.0021	1.0008	8.9257
0.070	1.0034	1.0025	1.0010	8.2915
0.075	1.0039	1.0028	1.0011	7.7421
0.080	1.0045	1.0032	1.0013	7.2616
0.085	1.0051	1.0036	1.0014	6.8378
0.090	1.0057	1.0041	1.0016	6.4613
0.095	1.0063	1.0045	1.0018	6.1247
0.100	1.0070	1.0050	1.0020	5.8218
0.105	1.0077	1.0055	1.0022	5.5480
0.110	1.0085	1.0061	1.0024	5.2992
0.115	1.0093	1.0066	1.0026	5.0722
0.120	1.0101	1.0072	1.0029	4.8643
0.125	1.0110	1.0078	1.0031	4.6732
0.130	1.0119	1.0085	1.0034	4.4969
0.135	1.0128	1.0091	1.0036	4.3337
0.140	1.0138	1.0098	1.0039	4.1824
0.145	1.0148	1.0105	1.0042	4.0416
0.150	1.0158	1.0113	1.0045	3.9103
0.155	1.0169	1.0121	1.0048	3.7877
0.160	1.0180	1.0128	1.0051	3.6727
0.165	1.0192	1.0137	1.0054	3.5649
0.170	1.0204	1.0145	1.0058	3.4635
0.175	1.0216	1.0154	1.0061	3.3680
0.180	1.0229	1.0163	1.0065	3.2779
0.185	1.0242	1.0172	1.0068	3.1928
0.190	1.0255	1.0181	1.0072	3.1123
0.195	1.0269	1.0191	1.0076	3.0359
0.200	1.0283	1.0201	1.0080	2.9635
0.205	1.0297	1.0211	1.0084	2.8947
0.210	1.0312	1.0222	1.0088	2.8293
0.215	1.0327	1.0233	1.0092	2.7670
0.220	1.0343	1.0244	1.0097	2.7076
0.225	1.0359	1.0255	1.0101	2.6509
0.230	1.0375	1.0267	1.0106	2.5968
0.235	1.0392	1.0278	1.0110	2.5451
0.240	1.0409	1.0290	1.0115	2.4956
0.245	1.0427	1.0303	1.0120	2.4482
0.250	1.0444	1.0315	1.0125	2.4027

M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
0.255	1.0463	1.0328	1.0130	2.3591
0.260	1.0481	1.0341	1.0135	2.3173
0.265	1.0500	1.0355	1.0140	2.2771
0.270	1.0520	1.0368	1.0146	2.2385
0.275	1.0539	1.0382	1.0151	2.2013
0.280	1.0560	1.0397	1.0157	2.1656
0.285	1.0580	1.0411	1.0162	2.1311
0.290	1.0601	1.0426	1.0168	2.0979
0.295	1.0623	1.0441	1.0174	2.0659
0.300	1.0644	1.0456	1.0180	2.0351
0.305	1.0666	1.0472	1.0186	2.0053
0.310	1.0689	1.0487	1.0192	1.9765
0.315	1.0712	1.0504	1.0198	1.9487
0.320	1.0735	1.0520	1.0205	1.9219
0.325	1.0759	1.0537	1.0211	1.8959
0.330	1.0783	1.0553	1.0218	1.8707
0.335	1.0808	1.0571	1.0224	1.8464
0.340	1.0833	1.0588	1.0231	1.8229
0.345	1.0858	1.0606	1.0238	1.8001
0.350	1.0884	1.0624	1.0245	1.7780
0.355	1.0910	1.0642	1.0252	1.7565
0.360	1.0937	1.0661	1.0259	1.7358
0.365	1.0964	1.0679	1.0266	1.7156
0.370	1.0992	1.0699	1.0274	1.6961
0.375	1.1019	1.0718	1.0281	1.6771
0.380	1.1048	1.0738	1.0289	1.6587
0.385	1.1077	1.0758	1.0296	1.6408
0.390	1.1106	1.0778	1.0304	1.6234
0.395	1.1135	1.0798	1.0312	1.6065
0.400	1.1166	1.0819	1.0320	1.5901
0.405	1.1196	1.0840	1.0328	1.5742
0.410	1.1227	1.0862	1.0336	1.5587
0.415	1.1258	1.0883	1.0344	1.5436
0.420	1.1290	1.0905	1.0353	1.5289
0.425	1.1323	1.0928	1.0361	1.5146
0.430	1.1355	1.0950	1.0370	1.5007
0.435	1.1388	1.0973	1.0378	1.4872
0.440	1.1422	1.0996	1.0387	1.4740
0.445	1.1456	1.1020	1.0396	1.4612
0.450	1.1491	1.1043	1.0405	1.4487
0.455	1.1526	1.1067	1.0414	1.4365
0.460	1.1561	1.1092	1.0423	1.4246
0.465	1.1597	1.1116	1.0432	1.4131
0.470	1.1634	1.1141	1.0442	1.4018
0.475	1.1670	1.1167	1.0451	1.3908
0.480	1.1708	1.1192	1.0461	1.3801
0.485	1.1746	1.1218	1.0470	1.3697
0.490	1.1784	1.1244	1.0480	1.3595
0.495	1.1823	1.1271	1.0490	1.3495
0.500	1.1862	1.1297	1.0500	1.3398

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M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
0.505	1.1902	1.1324	1.0510	1.3304
0.510	1.1942	1.1352	1.0520	1.3212
0.515	1.1983	1.1379	1.0530	1.3122
0.520	1.2024	1.1407	1.0541	1.3034
0.525	1.2066	1.1436	1.0551	1.2948
0.530	1.2108	1.1464	1.0562	1.2865
0.535	1.2151	1.1493	1.0572	1.2783
0.540	1.2194	1.1522	1.0583	1.2703
0.545	1.2238	1.1552	1.0594	1.2625
0.550	1.2283	1.1582	1.0605	1.2549
0.555	1.2327	1.1612	1.0616	1.2475
0.560	1.2373	1.1643	1.0627	1.2403
0.565	1.2419	1.1673	1.0638	1.2332
0.570	1.2465	1.1705	1.0650	1.2263
0.575	1.2512	1.1736	1.0661	1.2196
0.580	1.2560	1.1768	1.0673	1.2130
0.585	1.2608	1.1800	1.0684	1.2066
0.590	1.2656	1.1832	1.0696	1.2003
0.595	1.2705	1.1865	1.0708	1.1942
0.600	1.2755	1.1898	1.0720	1.1882
0.605	1.2805	1.1932	1.0732	1.1824
0.610	1.2856	1.1966	1.0744	1.1767
0.615	1.2907	1.2000	1.0756	1.1711
0.620	1.2959	1.2034	1.0769	1.1656
0.625	1.3012	1.2069	1.0781	1.1603
0.630	1.3065	1.2104	1.0794	1.1552
0.635	1.3119	1.2140	1.0806	1.1501
0.640	1.3173	1.2176	1.0819	1.1451
0.645	1.3228	1.2212	1.0832	1.1403
0.650	1.3283	1.2248	1.0845	1.1356
0.655	1.3339	1.2285	1.0858	1.1310
0.660	1.3396	1.2322	1.0871	1.1265
0.665	1.3453	1.2360	1.0884	1.1222
0.670	1.3511	1.2398	1.0898	1.1179
0.675	1.3569	1.2436	1.0911	1.1137
0.680	1.3628	1.2475	1.0925	1.1097
0.685	1.3688	1.2514	1.0938	1.1057
0.690	1.3748	1.2553	1.0952	1.1018
0.695	1.3809	1.2593	1.0966	1.0981
0.700	1.3871	1.2633	1.0980	1.0944
0.705	1.3933	1.2673	1.0994	1.0908
0.710	1.3996	1.2714	1.1008	1.0873
0.715	1.4060	1.2755	1.1022	1.0839
0.720	1.4124	1.2797	1.1037	1.0806
0.725	1.4189	1.2839	1.1051	1.0773
0.730	1.4254	1.2881	1.1066	1.0742
0.735	1.4320	1.2924	1.1080	1.0711
0.740	1.4387	1.2967	1.1095	1.0681
0.745	1.4455	1.3010	1.1110	1.0652
0.750	1.4523	1.3054	1.1125	1.0624

M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
0.755	1.4592	1.3098	1.1140	1.0597
0.760	1.4661	1.3143	1.1155	1.0570
0.765	1.4732	1.3188	1.1170	1.0544
0.770	1.4802	1.3233	1.1186	1.0519
0.775	1.4874	1.3279	1.1201	1.0494
0.780	1.4947	1.3325	1.1217	1.0471
0.785	1.5020	1.3372	1.1232	1.0447
0.790	1.5094	1.3419	1.1248	1.0425
0.795	1.5168	1.3466	1.1264	1.0403
0.800	1.5243	1.3514	1.1280	1.0382
0.805	1.5319	1.3562	1.1296	1.0362
0.810	1.5396	1.3610	1.1312	1.0342
0.815	1.5474	1.3659	1.1328	1.0323
0.820	1.5552	1.3709	1.1345	1.0305
0.825	1.5631	1.3758	1.1361	1.0287
0.830	1.5711	1.3808	1.1378	1.0270
0.835	1.5792	1.3859	1.1394	1.0253
0.840	1.5873	1.3910	1.1411	1.0237
0.845	1.5955	1.3961	1.1428	1.0222
0.850	1.6038	1.4013	1.1445	1.0207
0.855	1.6122	1.4066	1.1462	1.0192
0.860	1.6207	1.4118	1.1479	1.0179
0.865	1.6292	1.4171	1.1496	1.0166
0.870	1.6378	1.4225	1.1514	1.0153
0.875	1.6465	1.4279	1.1531	1.0141
0.880	1.6553	1.4333	1.1549	1.0129
0.885	1.6642	1.4388	1.1566	1.0118
0.890	1.6731	1.4443	1.1584	1.0108
0.895	1.6822	1.4499	1.1602	1.0098
0.900	1.6913	1.4555	1.1620	1.0089
0.905	1.7005	1.4612	1.1638	1.0080
0.910	1.7098	1.4669	1.1656	1.0071
0.915	1.7192	1.4726	1.1674	1.0063
0.920	1.7287	1.4784	1.1693	1.0056
0.925	1.7382	1.4843	1.1711	1.0049
0.930	1.7479	1.4901	1.1730	1.0043
0.935	1.7576	1.4961	1.1748	1.0037
0.940	1.7675	1.5020	1.1767	1.0031
0.945	1.7774	1.5081	1.1786	1.0026
0.950	1.7874	1.5141	1.1805	1.0021
0.955	1.7976	1.5203	1.1824	1.0017
0.960	1.8078	1.5264	1.1843	1.0014
0.965	1.8181	1.5326	1.1862	1.0010
0.970	1.8285	1.5389	1.1882	1.0008
0.975	1.8390	1.5452	1.1901	1.0005
0.980	1.8496	1.5515	1.1921	1.0003
0.985	1.8603	1.5579	1.1940	1.0002
0.990	1.8710	1.5644	1.1960	1.0001
0.995	1.8819	1.5709	1.1980	1.0000
1.000	1.8929	1.5774	1.2000	1.0000

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M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
1.010	1.9152	1.5907	1.2040	1.0001
1.020	1.9379	1.6041	1.2081	1.0003
1.030	1.9610	1.6178	1.2122	1.0007
1.040	1.9846	1.6316	1.2163	1.0013
1.050	2.0085	1.6457	1.2205	1.0020
1.060	2.0330	1.6599	1.2247	1.0029
1.070	2.0578	1.6744	1.2290	1.0039
1.080	2.0831	1.6891	1.2333	1.0051
1.090	2.1089	1.7040	1.2376	1.0064
1.100	2.1351	1.7191	1.2420	1.0079
1.110	2.1618	1.7344	1.2464	1.0095
1.120	2.1890	1.7500	1.2509	1.0113
1.130	2.2167	1.7658	1.2554	1.0132
1.140	2.2449	1.7818	1.2599	1.0153
1.150	2.2736	1.7980	1.2645	1.0175
1.160	2.3028	1.8145	1.2691	1.0198
1.170	2.3325	1.8312	1.2738	1.0222
1.180	2.3628	1.8481	1.2785	1.0248
1.190	2.3936	1.8653	1.2832	1.0276
1.200	2.4250	1.8827	1.2880	1.0304
1.210	2.4569	1.9004	1.2928	1.0334
1.220	2.4894	1.9183	1.2977	1.0366
1.230	2.5224	1.9365	1.3026	1.0398
1.240	2.5560	1.9549	1.3075	1.0432
1.250	2.5903	1.9736	1.3125	1.0468
1.260	2.6251	1.9925	1.3175	1.0504
1.270	2.6606	2.0117	1.3226	1.0542
1.280	2.6967	2.0311	1.3277	1.0581
1.290	2.7334	2.0508	1.3328	1.0621
1.300	2.7707	2.0708	1.3380	1.0663
1.310	2.8088	2.0911	1.3432	1.0706
1.320	2.8474	2.1116	1.3485	1.0750
1.330	2.8868	2.1324	1.3538	1.0796
1.340	2.9269	2.1535	1.3591	1.0842
1.350	2.9676	2.1749	1.3645	1.0890
1.360	3.0091	2.1965	1.3699	1.0940
1.370	3.0513	2.2185	1.3754	1.0990
1.380	3.0942	2.2407	1.3809	1.1042
1.390	3.1378	2.2633	1.3864	1.1095
1.400	3.1823	2.2861	1.3920	1.1149
1.410	3.2275	2.3093	1.3976	1.1205
1.420	3.2734	2.3327	1.4033	1.1262
1.430	3.3202	2.3565	1.4090	1.1320
1.440	3.3678	2.3805	1.4147	1.1379
1.450	3.4162	2.4049	1.4205	1.1440
1.460	3.4654	2.4296	1.4263	1.1501
1.470	3.5155	2.4547	1.4322	1.1565
1.480	3.5665	2.4800	1.4381	1.1629
1.490	3.6183	2.5057	1.4440	1.1695
1.500	3.6710	2.5317	1.4500	1.1762

M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
1.510	3.7247	2.5581	1.4560	1.1830
1.520	3.7792	2.5848	1.4621	1.1899
1.530	3.8347	2.6119	1.4682	1.1970
1.540	3.8911	2.6392	1.4743	1.2042
1.550	3.9485	2.6670	1.4805	1.2116
1.560	4.0068	2.6951	1.4867	1.2190
1.570	4.0662	2.7235	1.4930	1.2266
1.580	4.1266	2.7524	1.4993	1.2344
1.590	4.1880	2.7816	1.5056	1.2422
1.600	4.2504	2.8111	1.5120	1.2502
1.610	4.3139	2.8411	1.5184	1.2584
1.620	4.3785	2.8714	1.5249	1.2666
1.630	4.4442	2.9021	1.5314	1.2750
1.640	4.5110	2.9332	1.5379	1.2836
1.650	4.5789	2.9646	1.5445	1.2922
1.660	4.6479	2.9965	1.5511	1.3010
1.670	4.7181	3.0288	1.5578	1.3100
1.680	4.7896	3.0614	1.5645	1.3190
1.690	4.8622	3.0945	1.5712	1.3283
1.700	4.9360	3.1280	1.5780	1.3376
1.710	5.0111	3.1619	1.5848	1.3471
1.720	5.0874	3.1962	1.5917	1.3567
1.730	5.1650	3.2310	1.5986	1.3665
1.740	5.2439	3.2662	1.6055	1.3764
1.750	5.3241	3.3018	1.6125	1.3865
1.760	5.4057	3.3378	1.6195	1.3967
1.770	5.4886	3.3743	1.6266	1.4070
1.780	5.5729	3.4113	1.6337	1.4175
1.790	5.6587	3.4487	1.6408	1.4282
1.800	5.7458	3.4865	1.6480	1.4390
1.810	5.8344	3.5248	1.6552	1.4499
1.820	5.9244	3.5636	1.6625	1.4610
1.830	6.0160	3.6029	1.6698	1.4723
1.840	6.1091	3.6426	1.6771	1.4836
1.850	6.2037	3.6828	1.6845	1.4952
1.860	6.2998	3.7235	1.6919	1.5069
1.870	6.3976	3.7647	1.6994	1.5187
1.880	6.4970	3.8063	1.7069	1.5308
1.890	6.5980	3.8485	1.7144	1.5429
1.900	6.7006	3.8912	1.7220	1.5553
1.910	6.8050	3.9344	1.7296	1.5677
1.920	6.9111	3.9781	1.7373	1.5804
1.930	7.0189	4.0223	1.7450	1.5932
1.940	7.1284	4.0671	1.7527	1.6062
1.950	7.2398	4.1124	1.7605	1.6193
1.960	7.3530	4.1582	1.7683	1.6326
1.970	7.4680	4.2045	1.7762	1.6461
1.980	7.5849	4.2514	1.7841	1.6597
1.990	7.7037	4.2989	1.7920	1.6735
2.000	7.8244	4.3469	1.8000	1.6875

ISENTROPIC FLOW PROPERTIES

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M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
2.010	7.9471	4.3955	1.8080	1.7016
2.020	8.0718	4.4446	1.8161	1.7160
2.030	8.1985	4.4944	1.8242	1.7305
2.040	8.3273	4.5447	1.8323	1.7451
2.050	8.4581	4.5956	1.8405	1.7600
2.060	8.5911	4.6471	1.8487	1.7750
2.070	8.7262	4.6991	1.8570	1.7902
2.080	8.8635	4.7518	1.8653	1.8056
2.090	9.0030	4.8051	1.8736	1.8212
2.100	9.1447	4.8590	1.8820	1.8369
2.110	9.2887	4.9136	1.8904	1.8529
2.120	9.4350	4.9687	1.8989	1.8690
2.130	9.5836	5.0245	1.9074	1.8853
2.140	9.7347	5.0809	1.9159	1.9018
2.150	9.8881	5.1380	1.9245	1.9185
2.160	10.0440	5.1957	1.9331	1.9354
2.170	10.2023	5.2541	1.9418	1.9525
2.180	10.3632	5.3132	1.9505	1.9698
2.190	10.5267	5.3729	1.9592	1.9873
2.200	10.6927	5.4333	1.9680	2.0050
2.210	10.8614	5.4944	1.9768	2.0229
2.220	11.0327	5.5561	1.9857	2.0409
2.230	11.2068	5.6186	1.9946	2.0592
2.240	11.3836	5.6818	2.0035	2.0777
2.250	11.5631	5.7457	2.0125	2.0964
2.260	11.7455	5.8103	2.0215	2.1153
2.270	11.9308	5.8756	2.0306	2.1345
2.280	12.1190	5.9416	2.0397	2.1538
2.290	12.3101	6.0084	2.0488	2.1734
2.300	12.5043	6.0759	2.0580	2.1931
2.310	12.7015	6.1442	2.0672	2.2131
2.320	12.9017	6.2133	2.0765	2.2333
2.330	13.1051	6.2831	2.0858	2.2538
2.340	13.3116	6.3536	2.0951	2.2744
2.350	13.5214	6.4250	2.1045	2.2953
2.360	13.7344	6.4971	2.1139	2.3164
2.370	13.9507	6.5701	2.1234	2.3377
2.380	14.1704	6.6438	2.1329	2.3593
2.390	14.3935	6.7183	2.1424	2.3811
2.400	14.6200	6.7937	2.1520	2.4031
2.410	14.8500	6.8699	2.1616	2.4254
2.420	15.0836	6.9469	2.1713	2.4479
2.430	15.3208	7.0247	2.1810	2.4706
2.440	15.5616	7.1034	2.1907	2.4936
2.450	15.8061	7.1830	2.2005	2.5168
2.460	16.0544	7.2634	2.2103	2.5403
2.470	16.3064	7.3446	2.2202	2.5640
2.480	16.5623	7.4268	2.2301	2.5880
2.490	16.8222	7.5098	2.2400	2.6122
2.500	17.0859	7.5937	2.2500	2.6367

M	$\frac{p_0}{p}$	$\frac{\rho_0}{\rho}$	$\frac{T_0}{T}$	$\frac{A}{A^*}$
2.510	17.3537	7.6786	2.2600	2.6615
2.520	17.6256	7.7643	2.2701	2.6865
2.530	17.9016	7.8510	2.2802	2.7117
2.540	18.1818	7.9385	2.2903	2.7372
2.550	18.4662	8.0270	2.3005	2.7630
2.560	18.7549	8.1165	2.3107	2.7891
2.570	19.0480	8.2069	2.3210	2.8154
2.580	19.3455	8.2982	2.3313	2.8420
2.590	19.6475	8.3906	2.3416	2.8688
2.600	19.9540	8.4839	2.3520	2.8960
2.610	20.2652	8.5781	2.3624	2.9234
2.620	20.5809	8.6734	2.3729	2.9511
2.630	20.9015	8.7697	2.3834	2.9791
2.640	21.2268	8.8669	2.3939	3.0073
2.650	21.5569	8.9652	2.4045	3.0359
2.660	21.8920	9.0646	2.4151	3.0647
2.670	22.2321	9.1649	2.4258	3.0938
2.680	22.5772	9.2663	2.4365	3.1233
2.690	22.9274	9.3688	2.4472	3.1530
2.700	23.2829	9.4723	2.4580	3.1830
2.710	23.6436	9.5769	2.4688	3.2133
2.720	24.0096	9.6825	2.4797	3.2440
2.730	24.3810	9.7893	2.4906	3.2749
2.740	24.7579	9.8971	2.5015	3.3061
2.750	25.1403	10.0061	2.5125	3.3377
2.760	25.5284	10.1162	2.5235	3.3695
2.770	25.9221	10.2274	2.5346	3.4017
2.780	26.3217	10.3397	2.5457	3.4342
2.790	26.7270	10.4532	2.5568	3.4670
2.800	27.1383	10.5679	2.5680	3.5001
2.810	27.5556	10.6837	2.5792	3.5336
2.820	27.9789	10.8007	2.5905	3.5674
2.830	28.4084	10.9188	2.6018	3.6015
2.840	28.8441	11.0382	2.6131	3.6359
2.850	29.2862	11.1588	2.6245	3.6707
2.860	29.7346	11.2806	2.6359	3.7058
2.870	30.1896	11.4036	2.6474	3.7413
2.880	30.6511	11.5278	2.6589	3.7771
2.890	31.1192	11.6533	2.6704	3.8133
2.900	31.5941	11.7800	2.6820	3.8498
2.910	32.0758	11.9081	2.6936	3.8866
2.920	32.5644	12.0373	2.7053	3.9238
2.930	33.0600	12.1679	2.7170	3.9614
2.940	33.5627	12.2998	2.7287	3.9993
2.950	34.0725	12.4330	2.7405	4.0376
2.960	34.5897	12.5675	2.7523	4.0763
2.970	35.1141	12.7033	2.7642	4.1153
2.980	35.6461	12.8404	2.7761	4.1547
2.990	36.1856	12.9790	2.7880	4.1944
3.000	36.7327	13.1188	2.8000	4.2346

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