



### Rig Mass Flow Rate Calculations

Please Enter Parameters in highlighted boxes below

Engine Data File		
<b>Ambient Conditions</b>		
Air Temperature	5	[C]
Atmospheric Pressure	955	[mBar]
Air Humidity	79	[%]
<b>Viper Engine Parameters</b>		
Engine Air Intake Mass Flow	18.7	[Kg/s]
Butane Flow Rate	1732	[Ltr/h]
Engine Speed	12150	[RPM]
ETC	650	[C]
<b>Gas Delivery System Data File</b>		
<b>Gas Delivery System</b>		
Mixed Gas (Fuel) Mass Flow rate	0.281	[Kg/s]
Oxygen Mass Flow rate	0.496	[Kg/s]

Please do not change anything in this box

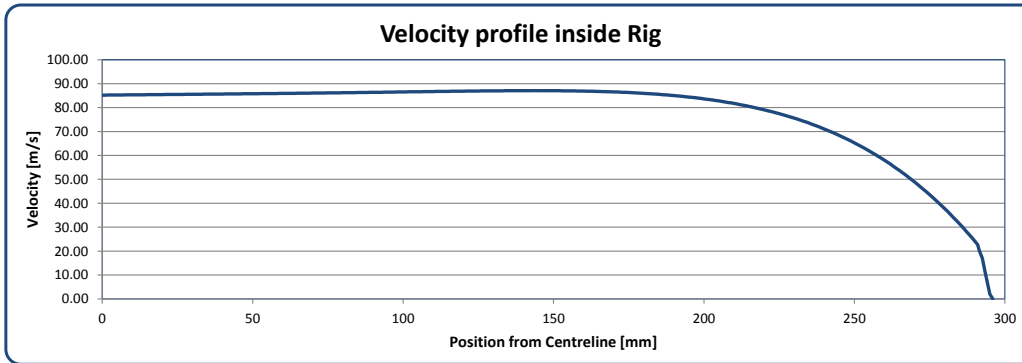
Test Date and Time = 03.03.2016 16:28:50.9

Calculated Parameters		
Air density	1.193496	[Kg/m3]
Liquid Butane density	584	[Kg/m3]
Butane mass Flow rate	0.280969	[Kg/s]
Air Fuel Ratio	79.23263	[ ]
<b>Calculated Exhaust gas properties (Reaction Engines)</b>		
Exhaust products density	0.41	[Kg/m3]
<b>Pitot Traverse Results</b>		
Rig Gas flow rate - Integrated	8.743	[Kg/s]
Total Rig Mass flow	9.520	[Kg/s]
<b>Rig Gas Temperature as read from TC 11</b>		
Gas Temperature	517	[C]

Bruce Ewan to fill in

Note

Manual for viper 201 gives figures for fuel flow rate to be as follows at maximum power					
Fuel Flow	2035	lb/hr	to	2920	lb/hr
	925	Kg/hr		1327.273	Kg/hr
	1156.25	ltr/hr		1659.091	ltr/hr



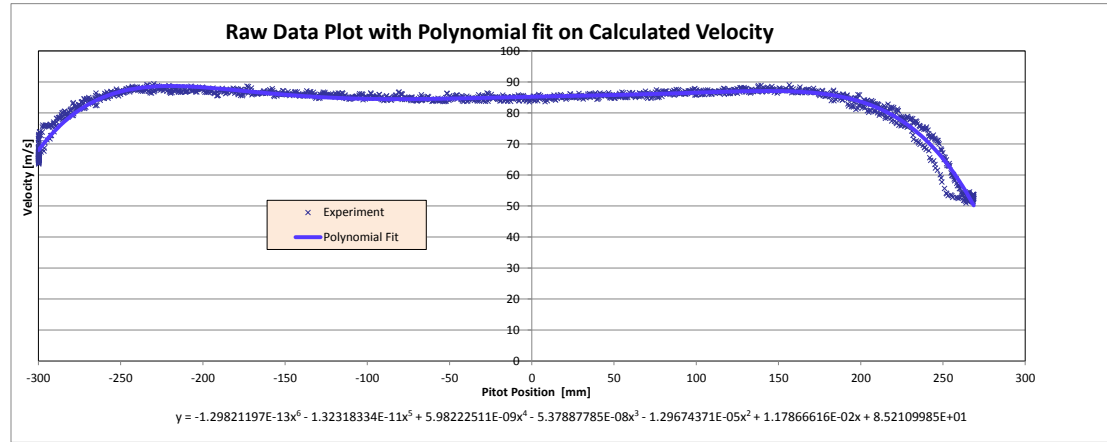
**Data Acquisition Parameters**

Sampling Rate	1000	[Hz]	
No of samples recorded	100	Samples	
Averaged samples sampling	10	[Hz]	
Pitot Traverse speed	7	[mm/s]	Averaged Pitot dp
Distance Travelled every 0.1	0.7	[mm]	13.64215531
			Average Vel 81.0223272 [m/s]

**Raw Data from CSV File**

Date and time	Pitot Position from rig centre [mm]	TC11 - Pitot [deg C]	Pitot dP [mBar]	O2 %
03.03.2016 16:28:50.9	-299.83	471.7	8.4769	21
03.03.2016 16:28:51.0	-299.85	471.3	8.4274	21
03.03.2016 16:28:51.1	-299.84	472.9	8.5833	21
03.03.2016 16:28:51.2	-299.82	473.3	8.9777	21
03.03.2016 16:28:51.3	-299.86	472.1	9.1093	21
03.03.2016 16:28:51.4	-299.85	471.9	9.2757	21
03.03.2016 16:28:51.5	-299.83	473.1	9.265	21
03.03.2016 16:28:51.6	-299.84	473	9.0331	21
03.03.2016 16:28:51.7	-299.85	471.7	8.7842	21
03.03.2016 16:28:51.8	-299.83	471.9	8.6124	21
03.03.2016 16:28:51.9	-299.84	472.9	8.7056	21
03.03.2016 16:28:52.0	-299.86	472.4	8.8709	21
03.03.2016 16:28:52.1	-299.86	471.7	8.8538	21
03.03.2016 16:28:52.2	-299.83	472.5	8.9456	21
03.03.2016 16:28:52.3	-299.86	473.2	8.9116	21
03.03.2016 16:28:52.4	-299.85	472.1	8.7702	21
03.03.2016 16:28:52.5	-299.85	471.6	8.7005	21
03.03.2016 16:28:52.6	-299.86	473	8.6637	21
03.03.2016 16:28:52.7	-299.85	473.5	8.9354	21
03.03.2016 16:28:52.8	-299.84	472.1	9.1476	21.01
03.03.2016 16:28:52.9	-299.85	471.8	9.1039	21.01
03.03.2016 16:28:53.0	-299.86	473.3	9.0317	21.01
03.03.2016 16:28:53.1	-299.86	473.7	9.0076	21.01
03.03.2016 16:28:53.2	-299.83	472.3	9.1008	21.01
03.03.2016 16:28:53.3	-299.84	472.5	9.3228	21.01
03.03.2016 16:28:53.4	-299.86	473.8	9.1128	21.01
03.03.2016 16:28:53.5	-299.84	474	9.0487	21.01
03.03.2016 16:28:53.6	-299.83	473.2	9.2972	21
03.03.2016 16:28:53.7	-299.87	473.8	9.5346	21
03.03.2016 16:28:53.8	-299.85	475.1	9.6693	21
03.03.2016 16:28:53.9	-299.83	475	9.6789	21
03.03.2016 16:28:54.0	-299.84	474.7	9.6206	21
03.03.2016 16:28:54.1	-299.85	475.9	9.4092	21
03.03.2016 16:28:54.2	-299.83	477.1	9.4422	21
03.03.2016 16:28:54.3	-299.86	476.4	9.62	21
03.03.2016 16:28:54.4	-299.87	476.4	9.6888	21
03.03.2016 16:28:54.5	-299.84	477.9	9.738	21
03.03.2016 16:28:54.6	-299.82	478.9	9.9597	20.99
03.03.2016 16:28:54.7	-299.87	477.9	10.1193	20.99
03.03.2016 16:28:54.8	-299.86	478	10.1825	20.99
03.03.2016 16:28:54.9	-299.83	479.8	10.414	20.99
03.03.2016 16:28:55.0	-299.84	480.5	10.5702	20.99
03.03.2016 16:28:55.1	-299.85	479.6	10.5264	20.99
03.03.2016 16:28:55.2	-299.82	480.1	10.3947	20.99
03.03.2016 16:28:55.3	-299.83	481.7	10.4954	20.99
03.03.2016 16:28:55.4	-299.84	482.1	10.5287	20.99
03.03.2016 16:28:55.5	-299.84	481.6	10.7143	20.99
03.03.2016 16:28:55.6	-299.83	482.5	10.9277	20.99
03.03.2016 16:28:55.7	-299.87	483.8	10.8029	20.99
03.03.2016 16:28:55.8	-299.66	483.6	10.8437	20.99
03.03.2016 16:28:55.9	-299.4	483.5	10.8811	20.99
03.03.2016 16:28:56.0	-299.32	484.9	11.1686	20.99
03.03.2016 16:28:56.1	-299.23	486	11.1971	20.99
03.03.2016 16:28:56.2	-298.24	485.4	10.8258	20.99
03.03.2016 16:28:56.3	-297.69	485.4	11.1675	20.99
03.03.2016 16:28:56.4	-297.56	487.3	11.6686	20.99

Calculated Velocity [m/s]
64.3045346
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64.7068436
66.1767773
66.6600403
67.266126
67.2273173
66.3806466
65.4597251
64.8164387
65.166204
65.7819754
65.7185425
66.058363
65.9327077
65.4075404
65.1471131
65.0091926
66.0206915
66.8000292
66.6402793
66.3755024
66.2868857
66.6289324
67.4366912
66.6728452
66.437941
67.3440384
68.1984193
68.6784661
68.7125508
68.5052962
67.7484587
67.8671586
68.503116
68.7476829
68.9220132
69.7021538
70.2584081
70.4774657
71.2741187
71.806651
71.657723
71.2080428
71.5521301
71.6655511
72.2944521
73.0108579
72.5927498
72.7297034
72.8550181
73.8112292
73.9053449
72.6696501
73.8075943
75.4453445



03.03.2016 16:28:56.5	-297.34	488.3	11.8597	20.99	76.0606305
03.03.2016 16:28:56.6	-296.32	487.5	11.6975	20.99	75.5387156
03.03.2016 16:28:56.7	-295.84	487.7	11.8114	20.99	75.9055896
03.03.2016 16:28:56.8	-295.69	489.7	11.8607	20.99	76.0638371
03.03.2016 16:28:56.9	-295.18	490.2	11.8401	20.99	75.9977535
03.03.2016 16:28:57.0	-294.42	489.4	11.7984	20.99	75.8638061
03.03.2016 16:28:57.1	-294.17	489.8	11.7893	20.99	75.8345439
03.03.2016 16:28:57.2	-294.06	491.4	11.8031	20.99	75.8789151
03.03.2016 16:28:57.3	-293.5	491.8	11.6979	20.99	75.5400072
03.03.2016 16:28:57.4	-292.79	491.4	11.9396	20.99	76.3164145
03.03.2016 16:28:57.5	-292.55	492.1	11.9323	20.98	76.2930806
03.03.2016 16:28:57.6	-292.38	493.3	11.7618	20.99	75.7460455
03.03.2016 16:28:57.7	-291.42	493	11.6592	20.98	75.4149497
03.03.2016 16:28:57.8	-290.86	492.8	11.9936	20.98	76.4888004
03.03.2016 16:28:57.9	-290.7	494.1	12.1634	20.98	77.0283445
03.03.2016 16:28:58.0	-290.24	495.1	12.008	20.98	76.5347044
03.03.2016 16:28:58.1	-289.29	494.3	11.8066	20.98	75.8901645
03.03.2016 16:28:58.2	-288.93	494.3	12.1657	20.98	77.0356269
03.03.2016 16:28:58.3	-288.69	496.1	12.5004	20.98	78.0881303
03.03.2016 16:28:58.4	-287.82	496.9	12.6351	20.98	78.5077284
03.03.2016 16:28:58.5	-287.41	496	12.6023	20.98	78.4057614
03.03.2016 16:28:58.6	-287.25	496.2	12.5328	20.98	78.1892638
03.03.2016 16:28:58.7	-287	498	12.6702	20.99	78.616699
03.03.2016 16:28:58.8	-286.02	498.7	12.9177	20.99	79.3808357
03.03.2016 16:28:58.9	-285.58	498	13.1101	20.99	79.9698114
03.03.2016 16:28:59.0	-285.45	498.4	13.1096	20.99	79.9682864
03.03.2016 16:28:59.1	-284.85	500	13.1885	20.99	80.2085696
03.03.2016 16:28:59.2	-284.12	500.3	13.2991	20.99	80.5441857
03.03.2016 16:28:59.3	-283.87	499.7	13.2988	20.99	80.5432773
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03.03.2016 16:28:59.5	-282.64	501.8	13.0724	20.99	79.8547462
03.03.2016 16:28:59.6	-282.33	501.4	13.0276	20.99	79.7177949
03.03.2016 16:28:59.7	-282.2	501.2	13.0495	20.99	79.7847715
03.03.2016 16:28:59.8	-281.39	502.5	13.1881	20.99	80.2073532
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03.03.2016 16:29:00.2	-279.51	504.1	13.562	20.99	81.3363987
03.03.2016 16:29:00.3	-278.96	505	14.1159	20.99	82.98075
03.03.2016 16:29:00.4	-278.79	504	14.2228	20.99	83.2943649
03.03.2016 16:29:00.5	-278.21	504.1	13.88	20.99	82.284456
03.03.2016 16:29:00.6	-277.45	505.9	13.7736	20.99	81.9684651
03.03.2016 16:29:00.7	-277.23	506.4	13.8275	20.99	82.1286914
03.03.2016 16:29:00.8	-277.06	505.4	13.5122	20.99	81.1869267
03.03.2016 16:29:00.9	-276.05	505.8	13.7428	20.99	81.8767664
03.03.2016 16:29:01.0	-275.5	507.2	14.0052	20.99	82.6547329
03.03.2016 16:29:01.1	-275.37	507.3	14.0058	20.99	82.6565034
03.03.2016 16:29:01.2	-275.16	506.8	13.9725	20.99	82.5581835
03.03.2016 16:29:01.3	-274.28	507.5	13.9177	20.99	82.3961283
03.03.2016 16:29:01.4	-273.85	508.6	14.2463	20.99	83.3631491
03.03.2016 16:29:01.5	-273.73	508	14.3121	21	83.5554438
03.03.2016 16:29:01.6	-273.21	507.6	14.3347	21	83.6213883
03.03.2016 16:29:01.7	-272.44	508.9	14.2192	21	83.2838227
03.03.2016 16:29:01.8	-272.22	509.9	14.6383	21	84.502273
03.03.2016 16:29:01.9	-272.11	508.8	14.6205	21	84.4508805
03.03.2016 16:29:02.0	-271.53	508.6	14.4126	21	83.8482951
03.03.2016 16:29:02.1	-270.82	510.4	14.6042	21	84.4037914
03.03.2016 16:29:02.2	-270.58	511.2	14.6862	21	84.6404159
03.03.2016 16:29:02.3	-270.36	509.9	14.617	21	84.4407716
03.03.2016 16:29:02.4	-269.4	509.9	14.8091	21	84.9938305
03.03.2016 16:29:02.5	-268.87	511.5	14.6023	21	84.3983008
03.03.2016 16:29:02.6	-268.69	511.9	14.5045	21	84.115194
03.03.2016 16:29:02.7	-268.17	510.9	14.3036	21	83.5306282
03.03.2016 16:29:02.8	-267.22	511.2	14.257	21	83.3944491
03.03.2016 16:29:02.9	-266.86	512.5	14.497	21	84.093444
03.03.2016 16:29:03.0	-266.53	512.5	14.5428	21	84.2261763
03.03.2016 16:29:03.1	-265.61	512	14.7382	21	84.7901283
03.03.2016 16:29:03.2	-265.17	512.7	15.0095	21	85.5669756

03.03.2016 16:29:03.3	-265.02	513.6	15.2999	21	86.3907741
03.03.2016 16:29:03.4	-264.36	513	14.8644	21	85.1523742
03.03.2016 16:29:03.5	-263.45	512.7	14.7106	21	84.7106985
03.03.2016 16:29:03.6	-263.14	513.9	14.6448	21	84.5210322
03.03.2016 16:29:03.7	-263.02	514.5	14.7947	21	84.9524975
03.03.2016 16:29:03.8	-262.41	513.5	14.9108	21	85.2851744
03.03.2016 16:29:03.9	-261.65	513.3	14.9522	21	85.40349
03.03.2016 16:29:04.0	-261.38	515	14.8998	21	85.2537103
03.03.2016 16:29:04.1	-261.2	515.6	14.7573	21	84.8450525
03.03.2016 16:29:04.2	-260.29	514.4	14.75	21	84.8240647
03.03.2016 16:29:04.3	-259.77	514.4	15.0172	21	85.5889211
03.03.2016 16:29:04.4	-259.62	516.1	15.2599	21	86.2777704
03.03.2016 16:29:04.5	-259.16	516.4	15.1687	21	86.0195667
03.03.2016 16:29:04.6	-258.28	515.5	15.423	21	86.7376195
03.03.2016 16:29:04.7	-257.99	515.8	15.2192	21	86.1626369
03.03.2016 16:29:04.8	-257.9	517	15.104	21.01	85.8359183
03.03.2016 16:29:04.9	-257.24	516.8	14.9265	21.01	85.3300622
03.03.2016 16:29:05.0	-256.28	516.1	14.9719	21.01	85.4597324
03.03.2016 16:29:05.1	-255.97	516.9	15.4127	21.01	86.7086515
03.03.2016 16:29:05.2	-255.81	517.8	15.503	21.01	86.9622851
03.03.2016 16:29:05.3	-254.78	517.1	15.3333	21.01	86.4850191
03.03.2016 16:29:05.4	-254.14	516.8	15.3111	21.01	86.4223887
03.03.2016 16:29:05.5	-253.99	518.1	15.224	21.02	86.1762233
03.03.2016 16:29:05.6	-253.56	518.7	15.4056	21.02	86.6886776
03.03.2016 16:29:05.7	-252.63	517.6	15.75	21.02	87.6523065
03.03.2016 16:29:05.8	-252.29	517.4	15.6118	21.02	87.2669021
03.03.2016 16:29:05.9	-252.21	519.1	15.2695	21.02	86.3049048
03.03.2016 16:29:06.0	-251.75	519.6	15.2054	21.02	86.1235641
03.03.2016 16:29:06.1	-250.87	518.4	15.3077	21.02	86.4127926
03.03.2016 16:29:06.2	-250.6	518.4	15.3744	21.02	86.6008506
03.03.2016 16:29:06.3	-250.43	519.8	15.5418	21.02	87.0710391
03.03.2016 16:29:06.4	-249.46	520	15.4902	21.02	86.9263776
03.03.2016 16:29:06.5	-248.76	519	15.4636	21.02	86.8517099
03.03.2016 16:29:06.6	-248.56	519.3	15.3921	21.02	86.6506865
03.03.2016 16:29:06.7	-248.15	520.3	15.2986	21.02	86.3871038
03.03.2016 16:29:06.8	-247.1	520.2	15.6069	21.03	87.253206
03.03.2016 16:29:06.9	-246.69	519.6	15.7757	21.03	87.7237905
03.03.2016 16:29:07.0	-246.55	520.4	15.7162	21.03	87.5582036
03.03.2016 16:29:07.1	-246.14	521.3	15.7614	21.03	87.6840225
03.03.2016 16:29:07.2	-245.27	520.6	15.9182	21.04	88.119099
03.03.2016 16:29:07.3	-244.9	520.1	15.831	21.04	87.8774091
03.03.2016 16:29:07.4	-244.75	521.6	15.6907	21.04	87.4871419
03.03.2016 16:29:07.5	-243.92	522.1	15.5665	21.04	87.140201
03.03.2016 16:29:07.6	-243.18	521	15.9229	21.04	88.132107
03.03.2016 16:29:07.7	-242.93	520.8	16.0748	21.04	88.551487
03.03.2016 16:29:07.8	-242.59	522.4	15.9408	21.04	88.1816307
03.03.2016 16:29:07.9	-241.24	522.9	15.9858	21.04	88.306009
03.03.2016 16:29:08.0	-240.6	521.7	15.8128	21.04	87.8268807
03.03.2016 16:29:08.1	-240.4	521.8	15.7162	21.04	87.5582036
03.03.2016 16:29:08.2	-239.49	523.2	15.6094	21.04	87.260194
03.03.2016 16:29:08.3	-238.22	523.4	15.7213	21.04	87.5724091
03.03.2016 16:29:08.4	-237.82	522.5	15.7927	21.04	87.7710436
03.03.2016 16:29:08.5	-237.7	522.8	15.5314	21.04	87.0419019
03.03.2016 16:29:08.6	-236.54	524	15.516	21.04	86.9987384
03.03.2016 16:29:08.7	-235.23	523.6	15.524	21.03	87.0211637
03.03.2016 16:29:08.8	-234.84	523	15.7217	21.03	87.5735231
03.03.2016 16:29:08.9	-234.53	524	15.731	21.03	87.5994209
03.03.2016 16:29:09.0	-233.04	524.8	15.5327	21.03	87.0455446
03.03.2016 16:29:09.1	-232.3	524	15.4717	21.03	86.8744538
03.03.2016 16:29:09.2	-232.11	523.6	15.3377	21.03	86.497427
03.03.2016 16:29:09.3	-231.26	524.9	15.3043	21.03	86.4031955
03.03.2016 16:29:09.4	-229.83	525.5	15.4507	21.02	86.8154757
03.03.2016 16:29:09.5	-229.38	524.3	15.5482	21.02	87.0889649
03.03.2016 16:29:09.6	-229.13	524.1	15.6674	21.02	87.4221605
03.03.2016 16:29:09.7	-227.47	525.6	16.1772	21.02	88.8330855
03.03.2016 16:29:09.8	-226.35	525.9	16.0767	21.02	88.5567201
03.03.2016 16:29:09.9	-226.05	524.7	15.8427	21.01	87.9098762
03.03.2016 16:29:10.0	-225.73	524.8	15.6345	21.01	87.3303233

03.03.2016 16:29:10.1	-224.04	526.2	15.5629	21.01	87.1301242
03.03.2016 16:29:10.2	-223.02	526.2	15.7055	21.01	87.5283926
03.03.2016 16:29:10.3	-222.72	525.3	15.814	21.01	87.8302131
03.03.2016 16:29:10.4	-221.96	525.6	15.5223	21	87.0163988
03.03.2016 16:29:10.5	-220.38	526.6	15.4282	21	86.7522404
03.03.2016 16:29:10.6	-219.82	526.2	15.4036	21	86.6830504
03.03.2016 16:29:10.7	-219.63	525.6	15.2828	20.99	86.3424831
03.03.2016 16:29:10.8	-218.78	526.4	15.3551	20.99	86.546477
03.03.2016 16:29:10.9	-217.28	527.1	15.4822	20.99	86.9039279
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03.03.2016 16:29:32.0	-33.11	531.4	14.4072	20.98	83.8325858
03.03.2016 16:29:32.1	-31.86	532.7	14.3933	20.98	83.7921354
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03.03.2016 16:29:37.6	16.35	531.2	14.9285	20.99	85.3357787
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03.03.2016 16:29:37.8	18.1	532.2	14.7406	20.99	84.7970317
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03.03.2016 16:29:38.1	19.77	531.1	14.8405	21	85.0838897
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03.03.2016 16:29:38.8	26.24	530.8	14.9771	21	85.4745719
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03.03.2016 16:29:52.5	149.78	525.9	15.5527	20.98	87.1015667
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03.03.2016 16:29:54.0	164.25	524.4	15.4197	20.98	86.7283395
03.03.2016 16:29:54.1	164.52	525.6	15.3601	20.98	86.5605667
03.03.2016 16:29:54.2	166.15	525.7	15.5337	20.98	87.0483465
03.03.2016 16:29:54.3	167.68	524.1	15.6787	20.98	87.4536811
03.03.2016 16:29:54.4	168.17	524	15.7443	20.98	87.6364441
03.03.2016 16:29:54.5	168.68	525	15.5483	20.98	87.0892449
03.03.2016 16:29:54.6	170.48	524.8	15.6056	20.98	87.2495719
03.03.2016 16:29:54.7	171.34	523.6	15.8351	20.98	87.8887878
03.03.2016 16:29:54.8	171.58	523.7	15.5641	20.98	87.1334832
03.03.2016 16:29:54.9	172.71	524.4	15.4157	20.98	86.7170898
03.03.2016 16:29:55.0	174.28	523.8	15.2164	20.98	86.1547105
03.03.2016 16:29:55.1	174.8	522.9	15.1401	20.98	85.9384351
03.03.2016 16:29:55.2	175.17	523.3	15.0061	20.98	85.5572836
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03.03.2016 16:29:55.4	178.33	522.8	14.9438	20.98	85.3794972
03.03.2016 16:29:55.5	178.66	522.3	14.9503	20.98	85.3980636
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03.03.2016 16:29:55.7	181.27	523.3	14.8696	20.98	85.1672673
03.03.2016 16:29:55.8	181.89	521.8	15.0289	20.98	85.6222561
03.03.2016 16:29:55.9	182.14	521.2	14.448	20.98	83.9512053
03.03.2016 16:29:56.0	183.7	522.3	14.4297	20.98	83.8980217
03.03.2016 16:29:56.1	184.96	522.4	14.5573	20.99	84.268155
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03.03.2016 16:29:56.7	190.31	520.2	14.8023	21	84.9743146
03.03.2016 16:29:56.8	191.77	520.9	14.7934	21	84.948765
03.03.2016 16:29:56.9	192.21	520.1	14.0963	21	82.9231204
03.03.2016 16:29:57.0	192.59	519	13.8631	21	82.2343469
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03.03.2016 16:29:57.4	197.05	518	13.4985	21	81.1457586
03.03.2016 16:29:57.5	198.32	518.8	13.593	21	81.429305
03.03.2016 16:29:57.6	198.7	519	13.9628	21	82.5295217

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03.03.2016 16:29:57.8	201.28	516.9	13.7199	21	81.8085212
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03.03.2016 16:29:58.1	204	516.1	13.3384	21	80.6631055
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03.03.2016 16:29:58.5	207.98	515	13.323	21	80.6165268
03.03.2016 16:29:58.6	208.7	514.9	13.2455	21	80.3817113
03.03.2016 16:29:58.7	208.99	515.3	13.3407	21	80.6700597
03.03.2016 16:29:58.8	210.2	514.4	13.1264	21	80.0195098
03.03.2016 16:29:58.9	211.32	513.5	12.8823	21	79.2719924
03.03.2016 16:29:59.0	211.66	513.8	13.0611	21	79.8202248
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03.03.2016 16:30:00.6	226.83	508.1	11.7456	21	75.6938635
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03.03.2016 16:30:00.8	228.72	506	11.7617	21	75.7457235
03.03.2016 16:30:00.9	229.25	506.5	11.76	21	75.7402493
03.03.2016 16:30:01.0	231	506.7	11.2719	21.01	74.151789
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03.03.2016 16:30:01.2	232.19	504	10.4665	21.01	71.4535496
03.03.2016 16:30:01.3	233.83	504.8	10.3177	21.01	70.9438115
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03.03.2016 16:30:01.5	235.25	502.6	10.1372	21	70.3205205
03.03.2016 16:30:01.6	236.03	501.8	9.9975	21	69.8342987
03.03.2016 16:30:01.7	237.98	502.7	9.9212	21	69.5673038
03.03.2016 16:30:01.8	238.74	502.1	9.7049	21	68.8047786
03.03.2016 16:30:01.9	238.97	500.1	9.7476	21	68.9559775
03.03.2016 16:30:02.0	239.79	499.5	9.5385	21	68.2123657
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03.03.2016 16:30:02.3	242.57	497.3	8.5737	21	64.6706478
03.03.2016 16:30:02.4	244.33	497.1	8.5448	21	64.5615607
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03.03.2016 16:30:03.5	254.79	486.5	5.8838	21	53.5737468
03.03.2016 16:30:03.6	255.41	486.9	5.8288	21	53.3227632
03.03.2016 16:30:03.7	255.92	485.7	5.7057	21	52.7566896
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03.03.2016 16:30:04.1	260.28	480.9	5.6743	21	52.6113222
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03.03.2016 16:30:04.3	262.36	478.3	5.9926	21	54.066806
03.03.2016 16:30:04.4	263.58	477.9	5.9636	21	53.9358246

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03.03.2016 16:30:04.6	265.55	474.9	6.0456	21	54.3053696
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03.03.2016 16:30:04.8	266.68	474.6	5.8306	21	53.3309959
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03.03.2016 16:30:07.5	268.19	461.2	5.7914	20.98	53.1514174
03.03.2016 16:30:07.6	268.24	459.9	5.8559	20.98	53.4465769
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03.03.2016 16:30:08.4	268.68	457.9	5.9194	20.98	53.7355766
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03.03.2016 16:30:09.3	267.83	458.7	5.6678	20.97	52.58118
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03.03.2016 16:30:09.5	266.97	457.8	5.6708	20.97	52.5950939
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03.03.2016 16:30:10.3	264.83	459.2	5.635	20.96	52.4288135
03.03.2016 16:30:10.4	264.62	460.6	5.4988	20.96	51.7913261
03.03.2016 16:30:10.5	264.02	461.2	5.3187	20.96	50.9361149
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03.03.2016 16:30:10.7	263.66	460	5.6488	20.96	52.4929728
03.03.2016 16:30:10.8	263.44	461.8	5.6286	20.96	52.3990318
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03.03.2016 16:30:11.8	259.57	464.8	6.6108	20.96	56.7871507
03.03.2016 16:30:11.9	258.75	466	6.5465	20.96	56.5103056
03.03.2016 16:30:12.0	258.39	467.1	6.7341	20.96	57.3142812
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03.03.2016 16:30:12.4	256.71	469.4	7.2521	20.95	59.4778089
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03.03.2016 16:30:16.5	236.11	493	11.7061	20.95	75.5664786
03.03.2016 16:30:16.6	235.89	493.4	11.8211	20.95	75.9367516
03.03.2016 16:30:16.7	235.56	492.7	11.8044	20.95	75.8830937
03.03.2016 16:30:16.8	234.5	493.4	11.9765	20.95	76.4342536
03.03.2016 16:30:16.9	234.07	495	12.1946	20.95	77.1270728
03.03.2016 16:30:17.0	233.63	495	12.2709	20.95	77.3679835
03.03.2016 16:30:17.1	232.56	494.7	12.1631	20.95	77.0273946
03.03.2016 16:30:17.2	232.14	495.6	12.0153	20.95	76.5579646
03.03.2016 16:30:17.3	232.04	496.7	12.1572	20.95	77.0087103
03.03.2016 16:30:17.4	231.56	496.3	12.5192	20.95	78.1468287
03.03.2016 16:30:17.5	230.52	496.2	12.5554	20.95	78.2597302
03.03.2016 16:30:17.6	230.19	497.7	12.4231	20.95	77.8463151
03.03.2016 16:30:17.7	229.91	498.6	12.3989	20.95	77.7704565
03.03.2016 16:30:17.8	228.95	497.9	12.5645	20.95	78.2880859
03.03.2016 16:30:17.9	228.51	497.9	12.709	20.95	78.7369811
03.03.2016 16:30:18.0	228.38	499.7	12.7446	20.95	78.8471816

03.03.2016 16:30:18.1	227.66	500.3	12.557	20.95	78.2647165
03.03.2016 16:30:18.2	226.57	499.1	12.433	20.96	77.8773269
03.03.2016 16:30:18.3	226.25	499.4	12.4076	20.96	77.7977365
03.03.2016 16:30:18.4	226.06	501.1	12.5976	20.96	78.3911394
03.03.2016 16:30:18.5	225.19	501.3	12.6389	20.96	78.5195331
03.03.2016 16:30:18.6	224.67	500.5	12.6977	20.96	78.7019695
03.03.2016 16:30:18.7	224.49	501	12.5413	20.96	78.2157741
03.03.2016 16:30:18.8	223.7	502.4	12.7579	20.96	78.8883125
03.03.2016 16:30:18.9	222.85	502.4	13.3467	20.96	80.6881984
03.03.2016 16:30:19.0	222.61	502.1	13.353	20.96	80.7072397
03.03.2016 16:30:19.1	222.32	503.3	13.5221	20.96	81.216663
03.03.2016 16:30:19.2	221.11	504.2	13.3089	20.96	80.5738564
03.03.2016 16:30:19.3	220.5	503.6	12.9302	20.96	79.4192334
03.03.2016 16:30:19.4	220.31	503.4	12.8576	20.96	79.1959595
03.03.2016 16:30:19.5	220.03	504.8	13.6903	20.96	81.7202247
03.03.2016 16:30:19.6	218.95	505.6	13.7423	20.96	81.8752769
03.03.2016 16:30:19.7	218.51	504.5	13.6388	20.96	81.5663728
03.03.2016 16:30:19.8	218.25	504.5	13.5058	20.96	81.1676975
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03.03.2016 16:30:20.3	214.74	507.2	13.6023	20.96	81.4571562
03.03.2016 16:30:20.4	214.31	507.5	13.885	20.96	82.2992754
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03.03.2016 16:30:20.6	213.65	507.2	13.3633	20.96	80.7383609
03.03.2016 16:30:20.7	212.66	508.3	13.6695	20.96	81.6581213
03.03.2016 16:30:20.8	212.28	508	13.6013	20.96	81.4541619
03.03.2016 16:30:20.9	211.94	507.6	13.7743	20.96	81.970548
03.03.2016 16:30:21.0	210.87	508.4	13.9781	20.96	82.574726
03.03.2016 16:30:21.1	210.41	509.4	14.0445	20.96	82.7706205
03.03.2016 16:30:21.2	210.14	508.5	14.0882	20.96	82.8992924
03.03.2016 16:30:21.3	209.04	508.2	14.0808	20.96	82.8775176
03.03.2016 16:30:21.4	208.29	509.8	14.0467	20.96	82.777103
03.03.2016 16:30:21.5	208.03	510.5	14.0747	20.96	82.8595638
03.03.2016 16:30:21.6	207.61	509.5	14.3442	20.96	83.6490928
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03.03.2016 16:30:22.1	204.1	510.6	14.466	20.96	84.0034842
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03.03.2016 16:30:22.3	203.32	512.2	14.3733	20.96	83.7338991
03.03.2016 16:30:22.4	202.28	511.5	14.4992	20.96	84.0998245
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03.03.2016 16:30:22.7	200.62	512.7	14.0545	20.96	82.8000825
03.03.2016 16:30:22.8	200.17	512.2	14.0739	20.96	82.8572089
03.03.2016 16:30:22.9	200.01	513.1	14.2319	20.96	83.3210072
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03.03.2016 16:30:23.5	196.1	513.7	14.3163	20.96	83.5677029
03.03.2016 16:30:23.6	195.86	513.6	14.3187	20.96	83.5747073
03.03.2016 16:30:23.7	194.97	515.2	14.5143	20.96	84.1436055
03.03.2016 16:30:23.8	194.14	515.4	14.6287	20.96	84.4745596
03.03.2016 16:30:23.9	193.87	514.3	14.7072	20.96	84.7009085
03.03.2016 16:30:24.0	193.72	514.5	14.6563	20.96	84.5542112
03.03.2016 16:30:24.1	192.66	515.8	14.7132	20.96	84.7181842
03.03.2016 16:30:24.2	191.78	515.8	15.0688	20.97	85.7358393
03.03.2016 16:30:24.3	191.5	515.1	14.9814	20.97	85.4868411
03.03.2016 16:30:24.4	191.12	515.6	14.8709	20.97	85.1709901
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03.03.2016 16:30:24.8	187.98	516.8	15.0315	20.98	85.6296621

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03.03.2016 16:30:25.1	186.63	516.4	15.1365	20.98	85.9282173
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03.03.2016 16:30:25.4	183.23	517.5	15.4939	20.97	86.9367586
03.03.2016 16:30:25.5	182.31	517.3	15.3507	20.97	86.5340762
03.03.2016 16:30:25.6	180.61	519	15.1893	20.97	86.0779567
03.03.2016 16:30:25.7	180.03	519.4	15.0816	20.97	85.7722452
03.03.2016 16:30:25.8	179.44	518.2	15.284	20.97	86.3458728
03.03.2016 16:30:25.9	177.62	518.4	15.1557	20.97	85.9826982
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03.03.2016 16:30:27.2	166.19	522.1	15.3387	20.98	86.5002467
03.03.2016 16:30:27.3	164.44	520.8	15.5728	20.98	87.1578327
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03.03.2016 16:30:27.9	159.36	523	15.4233	20.98	86.7384631
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03.03.2016 16:30:31.7	123.02	527.6	15.3723	20.99	86.5949359
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03.03.2016 16:30:32.7	112.99	527.2	15.3694	20.99	86.5867674
03.03.2016 16:30:32.8	112.71	528.6	15.3444	20.99	86.5163174
03.03.2016 16:30:32.9	111.37	529	15.4861	20.99	86.9148728
03.03.2016 16:30:33.0	110.03	527.5	15.4168	20.99	86.7201836
03.03.2016 16:30:33.1	109.61	527.6	15.2065	20.99	86.1266792
03.03.2016 16:30:33.2	109.19	528.8	15.1578	20.99	85.988655
03.03.2016 16:30:33.3	107.7	528.7	15.1682	20.99	86.018149
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03.03.2016 16:30:38.8	56.71	530.2	14.7981	21.04	84.9622585
03.03.2016 16:30:38.9	55.06	531.1	14.9009	21.03	85.2568572
03.03.2016 16:30:39.0	54.04	530.9	14.8905	21.03	85.2270998
03.03.2016 16:30:39.1	53.74	530.1	15.0089	21.03	85.5652653
03.03.2016 16:30:39.2	52.96	530.7	14.9626	21.03	85.433186
03.03.2016 16:30:39.3	51.24	531.4	14.9227	21.03	85.3191998
03.03.2016 16:30:39.4	50.63	530.6	14.728	21.03	84.7607825
03.03.2016 16:30:39.5	50.15	530.1	14.7211	21.03	84.7409251
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03.03.2016 16:30:39.8	47.3	530.6	15.1407	21.02	85.940138
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03.03.2016 16:30:43.3	14.13	531	14.5989	20.97	84.3884745
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03.03.2016 16:30:43.5	11.72	532.7	14.7455	20.97	84.8111244
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03.03.2016 16:30:44.7	0.87	532	14.9327	20.97	85.3477821
03.03.2016 16:30:44.8	0.2	531.4	14.6661	20.97	84.5824753
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03.03.2016 16:30:45.2	-3.32	531.3	14.4189	20.97	83.8666188

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03.03.2016 16:31:00.4	-148.14	531.5	15.4553	20.99	86.8283982
03.03.2016 16:31:00.5	-149.92	532.7	15.2533	20.99	86.2591105
03.03.2016 16:31:00.6	-150.59	532.6	15.2435	20.99	86.231396
03.03.2016 16:31:00.7	-150.82	531.5	15.1566	20.99	85.9852511
03.03.2016 16:31:00.8	-152.13	531.7	15.124	20.99	85.8927295
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03.03.2016 16:31:01.2	-156.86	532	15.3611	20.98	86.5633844
03.03.2016 16:31:01.3	-157.5	532.7	15.5871	20.98	87.1978407
03.03.2016 16:31:01.4	-157.8	531.8	15.8065	20.98	87.8093834
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