



Rig Mass Flow Rate Calculations

Please Enter Parameters in highlighted boxes below

Ambient Conditions		
Air Temperature	8.3	[C]
Atmospheric Pressure	964.13	[mBar]
Air Humidity	100	[%]

Viper Engine Parameters		
Engine Air Intake Mass Flow	18.05	[Kg/s]
Butane Flow Rate	1600	[Ltr/h]
Engine Speed	12150	[RPM]
ETC	635	[C]

Gas Delivery System		
Mixed Gas (Fuel) Mass Flow rate	0.143	[Kg/s]
Oxygen Mass Flow rate	0.153	[Kg/s]

Rig Gas Temperature as read from TC 8?		
Gas Temperature	540	[C]

Please do not change anything in this box

Test Date and Time = 26.08.2014 12:48:58.0

Calculated Parameters		
Air density	1.188903	[Kg/m ³]
Liquid Butane density	584	[Kg/m ³]
Butane mass Flow rate	0.259556	[Kg/s]
Air Fuel Ratio	69.54195	[]

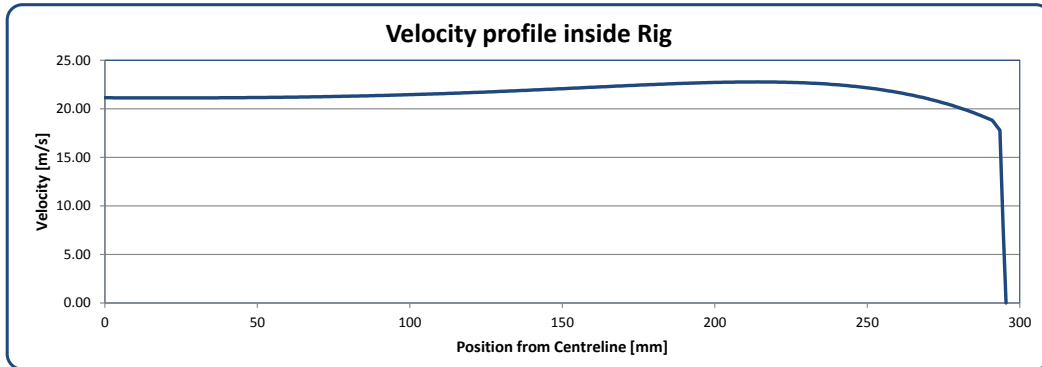
Calculated Exhaust gas properties (Reaction Engines)		
Exhaust products density	0.389	[Kg/m ³]

Pitot Traverse Results		
Rig Gas flow rate - Integrated	2.294334	[Kg/s]
Total Rig Mass flow	2.590334	[Kg/s]

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

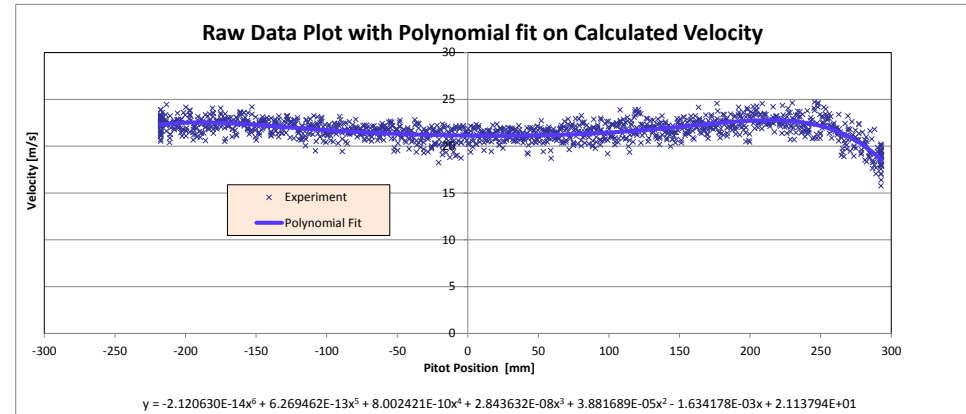
Sampling Rate	1000	[Hz]
No of samples recorded	100	Samples
Averaged samples sampling rate	10	[Hz]
Pitot Traverse speed	7	[mm/s]
Distance Travelled every 0.1sec	0.7	[mm]

Averaged Pitot dp 0.918865147 Average Vel 21.7036962 [m/s]

Raw Data from CSV File

Date and time [dd:mm:yyyy hh:mm:ss.ms]	Pitot Position from rig centre [mm]	TC11 - Pitot [deg C]	Pitot dP [mBar]
26.08.2014 12:48:58.0	-217.58	455.2	0.9816
26.08.2014 12:51:17.1	-217.57	489.9	1.0426
26.08.2014 12:48:57.0	-217.56	454.5	0.8635
26.08.2014 12:48:57.7	-217.56	455	0.9134
26.08.2014 12:48:57.3	-217.54	454.7	0.9526
26.08.2014 12:48:57.4	-217.54	454.8	1.0142
26.08.2014 12:48:57.6	-217.54	454.8	0.996
26.08.2014 12:48:58.4	-217.54	455.4	0.82
26.08.2014 12:48:57.8	-217.53	455	1.0332
26.08.2014 12:48:58.1	-217.53	455.5	0.8357
26.08.2014 12:48:57.1	-217.52	454.4	1.0502
26.08.2014 12:48:57.2	-217.52	454.4	0.8948
26.08.2014 12:48:58.3	-217.51	455.2	0.8766
26.08.2014 12:51:17.2	-217.51	489.7	0.9633
26.08.2014 12:51:17.4	-217.51	489.8	0.9757
26.08.2014 12:48:57.9	-217.5	454.9	1.1112
26.08.2014 12:51:18.1	-217.5	489.8	0.9211
26.08.2014 12:51:18.2	-217.5	489.9	0.9825
26.08.2014 12:51:18.8	-217.5	489.7	1.0094
26.08.2014 12:51:18.9	-217.5	489.9	0.9865
26.08.2014 12:48:58.2	-217.49	455.2	0.9834
26.08.2014 12:51:17.8	-217.49	489.9	1.043
26.08.2014 12:51:18.5	-217.49	489.8	1.0286
26.08.2014 12:48:57.5	-217.48	454.7	0.9481
26.08.2014 12:51:18.0	-217.48	489.7	0.8896
26.08.2014 12:51:18.4	-217.48	489.7	0.965
26.08.2014 12:51:18.7	-217.48	489.8	1.0084
26.08.2014 12:51:19.1	-217.48	489.8	1.0354
26.08.2014 12:51:19.4	-217.48	489.9	0.9948
26.08.2014 12:51:19.5	-217.48	489.8	1.0224
26.08.2014 12:51:17.3	-217.47	489.7	1.0623
26.08.2014 12:51:17.5	-217.47	489.9	1.0441
26.08.2014 12:51:17.9	-217.47	489.8	0.966
26.08.2014 12:51:18.3	-217.47	489.8	1.0227
26.08.2014 12:51:18.6	-217.47	489.9	0.876
26.08.2014 12:51:19.0	-217.47	489.9	0.991
26.08.2014 12:51:19.2	-217.46	489.7	0.9694
26.08.2014 12:51:17.6	-217.45	489.7	1.1099
26.08.2014 12:51:19.3	-217.44	489.9	0.9218
26.08.2014 12:51:17.7	-217.43	489.8	1.054
26.08.2014 12:48:58.5	-217.15	455.6	0.9062
26.08.2014 12:51:17.0	-216.5	489.8	1.0183
26.08.2014 12:51:16.7	-216.45	489.8	1.0322
26.08.2014 12:48:58.7	-216.41	455.4	1.0852
26.08.2014 12:48:58.8	-216.4	455.7	1.0016
26.08.2014 12:51:16.8	-216.34	489.7	1.031
26.08.2014 12:48:58.6	-216.31	455.5	0.9738
26.08.2014 12:51:16.9	-216.31	489.6	0.9827
26.08.2014 12:48:58.9	-214.08	455.9	1.0185
26.08.2014 12:51:16.6	-214.07	489.8	1.0625
26.08.2014 12:51:16.5	-213.82	489.6	0.9594
26.08.2014 12:51:16.4	-213.69	489.7	0.9998
26.08.2014 12:48:59.1	-213.43	455.7	1.1622
26.08.2014 12:48:59.2	-213.42	456.1	0.9083

Calculated Velocity [m/s]
22.4650543
23.1525621
21.0703315
21.6705883
22.1307171
22.8350518
22.6292347
20.5327502
23.0479549
20.7283817
23.2367938
21.4488091
21.2295569
22.2546607
22.3974383
23.902114
21.7617386
22.4753507
22.7809509
22.5210556
22.4856424
23.157003
22.9965908
22.0783834
21.386395
22.2742892
22.7696637
23.07248
22.6155985
22.9271788
23.3702731
23.169211
22.2858273
22.9305423
21.2222903
22.5723629
22.3250122
23.8881283
21.770006
23.2787954
21.5850086
22.8811616
23.0367985
23.6208265
22.6927618
23.0234038
22.3756202
22.4776381
22.8834085
23.372473
22.2095651
22.6723618
24.4444704
21.6100043



26.08.2014 12:48:59.0	-213.39	455.8	0.9657	22.2823665
26.08.2014 12:51:16.3	-213.07	489.8	0.97	22.33192
26.08.2014 12:51:16.0	-211.35	489.7	0.8096	20.402127
26.08.2014 12:51:16.2	-211.2	489.7	0.9869	22.5256209
26.08.2014 12:48:59.3	-211.16	456.2	0.9819	22.4684869
26.08.2014 12:51:16.1	-211.12	489.6	0.8484	20.8852908
26.08.2014 12:48:59.6	-210.87	456.4	0.8797	21.2670618
26.08.2014 12:48:59.4	-210.86	456	0.8806	21.2779379
26.08.2014 12:48:59.5	-210.84	456.1	1.0495	23.2290484
26.08.2014 12:51:15.9	-210.25	489.8	0.9387	21.968662
26.08.2014 12:51:15.8	-208.21	489.7	0.98	22.4467379
26.08.2014 12:51:15.7	-208.19	489.6	0.9636	22.2581258
26.08.2014 12:51:15.6	-208.15	489.7	0.934	21.9135952
26.08.2014 12:48:59.7	-208.06	456.5	0.9942	22.6087773
26.08.2014 12:48:59.8	-207.92	456.4	0.9216	21.7676442
26.08.2014 12:48:59.9	-207.87	456.4	1.0048	22.7289833
26.08.2014 12:49:00.0	-205.93	456.6	1.0118	22.8080174
26.08.2014 12:51:15.5	-205.72	489.7	1.0115	22.8046358
26.08.2014 12:51:15.4	-205.65	489.6	1.0771	23.5325077
26.08.2014 12:51:15.3	-205.57	489.6	0.9882	22.5404521
26.08.2014 12:51:15.2	-205.42	489.7	0.9413	21.9990652
26.08.2014 12:49:00.3	-204.98	456.8	1.0171	22.8676757
26.08.2014 12:49:00.1	-204.94	456.7	0.9692	22.3227091
26.08.2014 12:49:00.2	-204.92	456.7	0.9366	21.9440747
26.08.2014 12:51:15.1	-203.3	489.7	0.936	21.9370448
26.08.2014 12:51:14.9	-203.24	489.5	1.0177	22.8744197
26.08.2014 12:51:15.0	-203.24	489.5	0.8943	21.4428157
26.08.2014 12:49:00.4	-203.04	457	1.0119	22.8091444
26.08.2014 12:49:00.6	-202.37	457	0.8638	21.0739913
26.08.2014 12:49:00.5	-202.36	457	0.9105	21.6361594
26.08.2014 12:49:00.7	-202.05	457.1	0.926	21.819545
26.08.2014 12:51:14.8	-201.31	489.7	1.0833	23.6001394
26.08.2014 12:51:14.7	-200.19	489.6	1.0583	23.3262322
26.08.2014 12:51:14.6	-200.12	489.5	0.9873	22.5301854
26.08.2014 12:49:00.9	-199.81	457.3	0.9146	21.6848187
26.08.2014 12:49:01.0	-199.78	457.3	1.1355	24.1620493
26.08.2014 12:49:00.8	-199.66	457.3	0.8665	21.1069014
26.08.2014 12:51:14.5	-199.31	489.5	0.9085	21.6123834
26.08.2014 12:49:01.1	-199.26	457.5	0.9355	21.9311847
26.08.2014 12:51:14.2	-196.96	489.4	1.0259	22.9663888
26.08.2014 12:51:14.4	-196.95	489.7	1.1059	23.8450439
26.08.2014 12:49:01.4	-196.89	457.5	0.9005	21.5170166
26.08.2014 12:51:14.3	-196.89	489.6	1.0972	23.7510655
26.08.2014 12:49:01.3	-196.88	457.5	1.0655	23.4054462
26.08.2014 12:49:01.2	-196.66	457.6	1.0534	23.2721686
26.08.2014 12:51:14.1	-196.23	489.5	1.0089	22.775308
26.08.2014 12:51:14.0	-194.6	489.6	0.8966	21.4703718
26.08.2014 12:51:13.8	-194.52	489.4	0.8308	20.6675235
26.08.2014 12:51:13.9	-194.52	489.5	0.9244	21.8006863
26.08.2014 12:49:01.5	-193.9	457.8	0.9425	22.0130833
26.08.2014 12:49:01.6	-193.9	457.9	0.8789	21.2573895
26.08.2014 12:49:01.7	-193.9	457.8	0.9787	22.4318448
26.08.2014 12:49:01.8	-193.81	457.9	0.9536	22.14233
26.08.2014 12:51:13.7	-192.57	489.4	0.8775	21.2404523
26.08.2014 12:51:13.6	-192.14	489.5	0.9377	21.9569572
26.08.2014 12:51:13.4	-191.93	489.4	0.9384	21.9651512
26.08.2014 12:51:13.5	-191.71	489.4	0.8575	20.9970006
26.08.2014 12:49:02.0	-191.37	458.2	1.0097	22.7843359
26.08.2014 12:49:02.1	-191.35	458.2	0.9754	22.3939948
26.08.2014 12:49:01.9	-191.21	458.1	1.0434	23.161443
26.08.2014 12:49:02.2	-190.18	458.2	0.9049	21.5695205
26.08.2014 12:51:13.3	-189.55	489.4	0.8527	20.9381511
26.08.2014 12:51:13.2	-188.97	489.4	0.8909	21.4020156
26.08.2014 12:49:02.4	-188.78	458.5	1.0203	22.9036206
26.08.2014 12:49:02.5	-188.74	458.5	0.9683	22.3123423
26.08.2014 12:51:13.1	-188.64	489.3	0.8917	21.4116226

26.08.2014 12:49:02.3	-188.62	458.4	1.0204	22.9047429
26.08.2014 12:51:13.0	-188.05	489.3	0.9956	22.6246902
26.08.2014 12:49:02.6	-187.13	458.6	0.8934	21.4320232
26.08.2014 12:51:12.7	-186.06	489.2	0.9726	22.3618294
26.08.2014 12:51:12.9	-185.99	489.4	0.9422	22.0095796
26.08.2014 12:51:12.8	-185.85	489.4	1.0604	23.3493641
26.08.2014 12:49:02.8	-185.81	458.8	0.8257	20.6039904
26.08.2014 12:49:02.7	-185.72	458.8	0.9508	22.1097985
26.08.2014 12:49:02.9	-185.1	458.8	0.9917	22.5803336
26.08.2014 12:51:12.6	-184.2	489.2	1.0471	23.2024731
26.08.2014 12:51:12.3	-183.61	489.1	0.9367	21.9452462
26.08.2014 12:51:12.5	-183.47	489.4	0.9225	21.7782703
26.08.2014 12:51:12.4	-183.39	489.3	0.9589	22.203777
26.08.2014 12:49:03.1	-182.92	459.1	0.9921	22.584887
26.08.2014 12:49:03.2	-182.85	459.1	1.0681	23.4339854
26.08.2014 12:49:03.0	-182.62	458.9	1.011	22.7989988
26.08.2014 12:49:03.3	-181	459.1	0.9511	22.1132863
26.08.2014 12:51:12.2	-180.95	489.1	1.125	24.0500763
26.08.2014 12:51:12.1	-180.52	489.3	1.0817	23.5827047
26.08.2014 12:51:12.0	-180.45	489.2	1.0443	23.17143
26.08.2014 12:49:03.5	-180.31	459.5	0.924	21.7959691
26.08.2014 12:49:03.6	-180.27	459.4	0.8901	21.3924043
26.08.2014 12:49:03.4	-180.26	459.3	1.0739	23.4975249
26.08.2014 12:51:11.9	-179.69	489	0.9664	22.2904408
26.08.2014 12:49:03.7	-178.21	459.4	0.9609	22.2269204
26.08.2014 12:51:11.8	-178.03	489.1	1.0023	22.7006902
26.08.2014 12:51:11.6	-177.79	489.1	0.9437	22.0270925
26.08.2014 12:51:11.7	-177.79	489.2	1.0001	22.6757631
26.08.2014 12:49:03.8	-177.75	459.6	0.9279	21.8419186
26.08.2014 12:49:03.9	-177.71	459.8	1.014	22.8328001
26.08.2014 12:51:11.5	-176.89	488.9	0.9927	22.5917154
26.08.2014 12:49:04.0	-176.21	459.7	0.9942	22.6087773
26.08.2014 12:51:11.4	-175.12	489	1.0786	23.5488881
26.08.2014 12:51:11.3	-175.04	489.1	1.1251	24.0511452
26.08.2014 12:49:04.2	-174.79	459.9	1.0624	23.3713731
26.08.2014 12:49:04.3	-174.74	460.1	1.0029	22.7074838
26.08.2014 12:51:11.2	-174.73	489	1.0229	22.9327843
26.08.2014 12:49:04.1	-174.64	459.7	0.9468	22.0632417
26.08.2014 12:49:04.4	-173.19	460	0.9777	22.4203818
26.08.2014 12:49:04.6	-172.24	460.3	0.938	21.9604693
26.08.2014 12:49:04.7	-172.19	460.3	1.0087	22.7730504
26.08.2014 12:49:04.5	-172.14	460	0.8186	20.5152147
26.08.2014 12:51:11.0	-172.14	488.9	1.031	23.0234038
26.08.2014 12:51:10.9	-172.04	489	1.0208	22.9092319
26.08.2014 12:51:11.1	-171.87	488.9	1.0702	23.4570109
26.08.2014 12:51:10.8	-171.58	488.8	0.8411	20.7952437
26.08.2014 12:49:04.9	-169.64	460.4	0.9495	22.0946783
26.08.2014 12:49:05.0	-169.62	460.6	0.9582	22.1956711
26.08.2014 12:51:10.7	-169.55	488.8	0.9872	22.5290444
26.08.2014 12:49:04.8	-169.49	460.3	1.016	22.8553066
26.08.2014 12:51:10.5	-169.43	488.9	0.9776	22.4192352
26.08.2014 12:49:05.1	-169.38	460.6	1.0332	23.0479549
26.08.2014 12:51:10.6	-169.38	488.9	0.9595	22.2107225
26.08.2014 12:51:10.4	-167.73	488.7	1.0347	23.0646794
26.08.2014 12:51:10.3	-167.07	488.7	1.001	22.6859639
26.08.2014 12:51:10.1	-167.02	488.8	0.8586	21.0104638
26.08.2014 12:51:10.2	-166.83	488.8	0.9889	22.548434
26.08.2014 12:49:05.3	-166.69	460.7	0.9238	21.7936101
26.08.2014 12:49:05.4	-166.69	460.9	0.9261	21.8207232
26.08.2014 12:49:05.2	-166.5	460.6	0.9261	21.8207232
26.08.2014 12:51:10.0	-164.83	488.6	0.9151	21.6907453
26.08.2014 12:49:05.5	-164.17	460.9	1.0002	22.6768967
26.08.2014 12:51:09.9	-164.1	488.6	0.8806	21.2779379
26.08.2014 12:51:09.8	-164.06	488.8	1.0358	23.0769363
26.08.2014 12:49:05.7	-163.72	461.1	0.8697	21.1458395
26.08.2014 12:49:05.6	-163.7	460.9	0.9723	22.3583804

26.08.2014 12:49:05.8	-163.18	461.2	1.0209	22.910354
26.08.2014 12:51:09.7	-162.99	488.7	0.9682	22.3111901
26.08.2014 12:51:09.4	-161.5	488.7	1.0576	23.3185165
26.08.2014 12:51:09.5	-161.41	488.5	1.0768	23.5292303
26.08.2014 12:49:06.0	-161.18	461.2	1.0904	23.6773513
26.08.2014 12:49:06.1	-161.15	461.5	0.9814	22.4627655
26.08.2014 12:51:09.6	-161.14	488.5	0.9717	22.3514807
26.08.2014 12:49:05.9	-160.93	461.2	1.0834	23.6012287
26.08.2014 12:51:09.3	-159.75	488.6	1.0088	22.7741792
26.08.2014 12:49:06.3	-158.61	461.5	1.0147	22.8406799
26.08.2014 12:51:09.0	-158.61	488.5	0.9961	22.6303707
26.08.2014 12:49:06.4	-158.57	461.5	1.0816	23.5816146
26.08.2014 12:49:06.2	-158.56	461.6	1.0816	23.5816146
26.08.2014 12:51:09.1	-158.51	488.4	0.9653	22.2777512
26.08.2014 12:51:09.2	-158.24	488.4	0.955	22.1585778
26.08.2014 12:49:06.5	-157.69	461.8	1.0341	23.057991
26.08.2014 12:51:08.6	-156.07	488.4	0.9324	21.8948175
26.08.2014 12:49:06.7	-155.99	461.8	0.9374	21.9534445
26.08.2014 12:49:06.8	-155.99	461.9	0.9198	21.7463763
26.08.2014 12:51:08.7	-155.99	488.4	1.0067	22.7504626
26.08.2014 12:51:08.9	-155.87	488.4	0.9904	22.5655287
26.08.2014 12:49:06.6	-155.82	462	0.9863	22.5187725
26.08.2014 12:51:08.8	-155.76	488.3	1.0798	23.5619841
26.08.2014 12:49:06.9	-154.83	462.2	0.8818	21.2924308
26.08.2014 12:49:07.1	-153.39	462.2	0.9155	21.6954854
26.08.2014 12:49:07.0	-153.3	462.3	0.8963	21.4667795
26.08.2014 12:51:08.3	-153.14	488.3	0.9218	21.770006
26.08.2014 12:49:07.2	-152.94	462.3	1.1392	24.201383
26.08.2014 12:51:08.5	-152.94	488.3	1.0659	23.4098391
26.08.2014 12:51:08.4	-152.92	488.2	0.9773	22.415795
26.08.2014 12:51:08.2	-150.7	488.3	0.9161	21.7025936
26.08.2014 12:49:07.4	-150.47	462.5	0.9417	22.0037389
26.08.2014 12:49:07.5	-150.45	462.5	0.8577	20.9994491
26.08.2014 12:49:07.3	-150.3	462.5	1.0382	23.103656
26.08.2014 12:51:08.0	-150.01	488.1	0.9751	22.3905507
26.08.2014 12:51:07.9	-149.97	488.2	0.9718	22.3526308
26.08.2014 12:49:07.6	-149.81	462.6	0.8299	20.656326
26.08.2014 12:51:08.1	-149.65	488.1	0.9589	22.203777
26.08.2014 12:49:07.8	-147.91	462.8	0.8948	21.4488091
26.08.2014 12:49:07.9	-147.91	462.8	0.9004	21.5158219
26.08.2014 12:49:07.7	-147.71	462.8	0.8731	21.1871329
26.08.2014 12:51:07.8	-147.71	488.2	0.9832	22.4833557
26.08.2014 12:51:07.6	-147.55	488	0.9903	22.5643894
26.08.2014 12:51:07.7	-147.28	488	0.9591	22.2060924
26.08.2014 12:51:07.5	-147	488.1	1.0088	22.7741792
26.08.2014 12:49:08.0	-146.07	463	0.9195	21.7428297
26.08.2014 12:49:08.2	-145.33	463.1	1.0112	22.8012537
26.08.2014 12:49:08.3	-145.3	463.1	1.0414	23.1392343
26.08.2014 12:49:08.1	-145.28	463.2	0.9332	21.9042084
26.08.2014 12:51:07.2	-144.8	487.9	0.9925	22.5894395
26.08.2014 12:51:07.4	-144.8	488.1	1.0061	22.7436819
26.08.2014 12:51:07.3	-144.73	487.9	1.0044	22.7244588
26.08.2014 12:51:07.1	-144.18	488	1.0145	22.8384288
26.08.2014 12:49:08.4	-142.93	463.4	1.0017	22.6938946
26.08.2014 12:49:08.6	-142.37	463.4	0.9537	22.1434909
26.08.2014 12:49:08.5	-142.36	463.5	1.031	23.0234038
26.08.2014 12:51:06.8	-142.11	487.8	0.9466	22.0609112
26.08.2014 12:51:07.0	-141.78	487.9	0.968	22.3088856
26.08.2014 12:51:06.9	-141.63	487.7	0.9639	22.2615904
26.08.2014 12:49:08.7	-140.92	463.4	1.0131	22.822665
26.08.2014 12:49:08.9	-139.47	463.9	0.8729	21.1847061
26.08.2014 12:49:09.0	-139.43	463.7	0.9039	21.5575991
26.08.2014 12:49:08.8	-139.3	463.7	1.0283	22.993237
26.08.2014 12:51:06.5	-139.28	487.6	0.8653	21.092281
26.08.2014 12:51:06.7	-139.28	487.8	0.9547	22.1550971
26.08.2014 12:51:06.4	-139.26	487.7	0.8901	21.3924043

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26.08.2014 12:49:09.1	-137.83	463.7	0.886	21.3430783
26.08.2014 12:49:09.4	-136.85	464.1	0.9817	22.4661985
26.08.2014 12:49:09.3	-136.84	464.2	0.9983	22.6553477
26.08.2014 12:49:09.2	-136.79	464.2	0.9333	21.9053819
26.08.2014 12:51:06.1	-136.64	487.5	1.0166	22.8620542
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26.08.2014 12:51:06.2	-136.2	487.5	0.9636	22.2581258
26.08.2014 12:51:06.0	-135.15	487.6	0.9796	22.4421564
26.08.2014 12:49:09.6	-134.36	464.4	0.9703	22.3353732
26.08.2014 12:49:09.7	-134.28	464.5	0.9517	22.1202602
26.08.2014 12:49:09.5	-134.16	464.1	0.8896	21.386395
26.08.2014 12:49:09.8	-134.01	464.3	0.9396	21.9791909
26.08.2014 12:51:05.7	-133.96	487.3	0.8585	21.0092402
26.08.2014 12:51:05.9	-133.8	487.5	1.0483	23.2157645
26.08.2014 12:51:05.8	-133.73	487.3	1.0183	22.8811616
26.08.2014 12:51:05.6	-131.93	487.4	0.8878	21.3647477
26.08.2014 12:49:10.0	-131.37	464.8	0.8914	21.4080205
26.08.2014 12:49:10.1	-131.32	464.8	0.9682	22.3111901
26.08.2014 12:49:09.9	-131.19	464.5	0.9483	22.080712
26.08.2014 12:51:05.5	-130.77	487.4	0.9228	21.7818112
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26.08.2014 12:51:05.3	-130.12	487	1.0003	22.6780303
26.08.2014 12:49:10.2	-128.78	464.6	0.8921	21.4164245
26.08.2014 12:49:10.3	-128.41	464.9	0.9833	22.4844991
26.08.2014 12:49:10.4	-128.41	465.2	1.0478	23.2102273
26.08.2014 12:51:05.0	-127.85	487	1.051	23.2456425
26.08.2014 12:49:10.5	-127.83	465	1.0122	22.8125253
26.08.2014 12:51:05.2	-127.81	487.3	1.0153	22.8474318
26.08.2014 12:51:05.1	-127.77	487.3	1.0454	23.1836304
26.08.2014 12:51:04.9	-127.05	487	1.0191	22.8901479
26.08.2014 12:49:10.7	-125.8	465.3	0.8513	20.9209554
26.08.2014 12:49:10.8	-125.79	465.5	0.9836	22.4879288
26.08.2014 12:49:10.6	-125.65	464.9	0.9419	22.0060753
26.08.2014 12:51:04.8	-125.37	487.2	0.9991	22.6644235
26.08.2014 12:51:04.6	-125.31	486.8	0.9551	22.1597379
26.08.2014 12:51:04.7	-125.15	487.1	0.9964	22.6337782
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26.08.2014 12:49:11.0	-123.22	465.2	0.9541	22.1481341
26.08.2014 12:49:10.9	-123.18	465.3	0.8447	20.8396991
26.08.2014 12:51:04.2	-122.94	486.8	0.9751	22.3905507
26.08.2014 12:51:04.4	-122.79	487	1.014	22.8328001
26.08.2014 12:51:04.3	-122.46	486.9	0.968	22.3088856
26.08.2014 12:49:11.2	-122.35	465.8	0.9728	22.3641285
26.08.2014 12:49:11.4	-120.65	465.7	1.0099	22.7865924
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26.08.2014 12:51:03.9	-119.73	486.7	0.8977	21.4835383
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26.08.2014 12:49:11.8	-118.07	466	0.8292	20.6476126
26.08.2014 12:49:11.7	-117.91	465.9	0.863	21.0642303
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26.08.2014 12:51:03.5	-117.36	486.5	0.8357	20.7283817
26.08.2014 12:51:03.7	-117.19	486.7	0.9521	22.1249083
26.08.2014 12:51:03.6	-117.17	486.7	0.853	20.941834
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26.08.2014 12:49:12.2	-115.12	466.4	0.9409	21.9943905
26.08.2014 12:49:12.0	-114.94	466.3	0.7818	20.0487837
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26.08.2014 12:51:03.1	-114.21	486.3	1.014	22.8328001

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26.08.2014 12:49:12.5	-112.54	466.5	0.8806	21.2779379
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26.08.2014 12:49:12.6	-111.75	466.7	0.8885	21.3731687
26.08.2014 12:51:02.8	-111.64	486.4	1.0233	22.9372678
26.08.2014 12:51:02.9	-111.62	486.5	0.9303	21.8701473
26.08.2014 12:51:02.7	-110.11	486.1	0.9469	22.0644068
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26.08.2014 12:49:12.9	-109.99	466.9	0.948	22.077219
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26.08.2014 12:51:02.4	-109.09	486.2	1.0503	23.2379001
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26.08.2014 12:49:13.7	-102.4	467.4	0.9489	22.0876962
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26.08.2014 12:51:01.2	-98.33	485.5	0.9687	22.3169503
26.08.2014 12:49:14.6	-97.15	468.3	0.826	20.6077331
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26.08.2014 12:49:14.4	-96.96	468	0.9282	21.8454492
26.08.2014 12:49:14.7	-96.82	468.3	0.9025	21.5408979
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26.08.2014 12:51:00.2	-91.93	485.2	0.9734	22.3710242
26.08.2014 12:49:15.1	-91.87	468.5	0.8024	20.3112035
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26.08.2014 12:49:15.3	-91.57	468.7	0.9594	22.2095651
26.08.2014 12:49:15.4	-90.95	468.9	0.9142	21.6800763
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26.08.2014 12:51:00.0	-90.24	484.9	1.0133	22.8249176
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26.08.2014 12:49:15.6	-89.01	468.8	0.8927	21.4236253
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26.08.2014 12:50:59.8	-88.09	485	0.9785	22.4295527
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26.08.2014 12:49:16.4	-83.85	469.3	0.9946	22.613325
26.08.2014 12:49:16.3	-83.84	469.3	0.8977	21.4835383
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26.08.2014 12:49:16.8	-80.62	469.6	0.9119	21.6527871
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26.08.2014 12:49:16.9	-78.14	470.1	0.9097	21.6266521
26.08.2014 12:50:58.4	-77.44	484.2	0.9167	21.7096995
26.08.2014 12:50:58.1	-76.75	484	0.88	21.2706878
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26.08.2014 12:49:17.4	-75.73	470.1	0.8896	21.386395
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26.08.2014 12:50:57.8	-74.22	484	0.9587	22.2014613
26.08.2014 12:50:57.7	-73.39	483.7	0.962	22.239639
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26.08.2014 12:49:17.6	-73.04	470.3	0.8282	20.6351586
26.08.2014 12:49:17.9	-71.82	470.3	0.9405	21.9897148
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26.08.2014 12:50:57.5	-71.58	483.9	0.8979	21.4859313
26.08.2014 12:50:57.4	-71.37	483.7	0.9349	21.9241506
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26.08.2014 12:49:18.4	-68.02	471.1	0.859	21.0153573
26.08.2014 12:50:57.0	-67.89	483.5	0.953	22.135363
26.08.2014 12:50:56.8	-66.49	483.5	0.9046	21.5659448
26.08.2014 12:50:56.9	-66.47	483.4	0.9565	22.175973
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26.08.2014 12:49:18.8	-65.11	471.3	0.9116	21.6492251
26.08.2014 12:49:18.9	-65.02	471.3	0.9248	21.8054025
26.08.2014 12:49:18.7	-64.98	470.8	0.9141	21.6788905
26.08.2014 12:50:56.4	-63.98	483.3	0.8285	20.6388956

26.08.2014 12:50:56.5	-63.98	483.2	0.8838	21.3165637
26.08.2014 12:50:56.6	-63.61	483.2	0.9185	21.7310033
26.08.2014 12:49:19.2	-62.51	471.6	0.8439	20.8298283
26.08.2014 12:49:19.1	-62.5	471.2	0.8475	20.8742101
26.08.2014 12:49:19.0	-62.37	471	0.8635	21.0703315
26.08.2014 12:50:56.3	-62.33	483.2	0.928	21.8430955
26.08.2014 12:50:56.1	-61.5	483	0.955	22.1585778
26.08.2014 12:50:56.2	-61.2	483	0.9245	21.8018654
26.08.2014 12:50:56.0	-60.68	483.1	0.9779	22.4226749
26.08.2014 12:49:19.3	-60.46	471.6	0.8801	21.2718963
26.08.2014 12:49:19.4	-59.9	471.3	0.9044	21.5635606
26.08.2014 12:49:19.5	-59.9	471.6	0.9539	22.1458127
26.08.2014 12:49:19.6	-59.55	472	0.8297	20.6538369
26.08.2014 12:50:55.7	-59.09	482.8	0.9279	21.8419186
26.08.2014 12:50:55.9	-58.72	483	0.914	21.6777047
26.08.2014 12:50:55.8	-58.47	482.8	0.9601	22.2176659
26.08.2014 12:49:19.8	-57.36	471.6	0.8853	21.3346454
26.08.2014 12:49:19.9	-57.35	471.9	0.8821	21.2960525
26.08.2014 12:49:19.7	-57.17	471.7	0.9409	21.9943905
26.08.2014 12:50:55.6	-56.8	483	0.9202	21.7511043
26.08.2014 12:50:55.4	-56.19	482.6	0.9294	21.8595658
26.08.2014 12:50:55.5	-56.02	482.8	0.9905	22.5666679
26.08.2014 12:50:55.3	-55.18	482.6	0.9046	21.5659448
26.08.2014 12:49:20.0	-54.9	472.2	1.0014	22.6904961
26.08.2014 12:49:20.1	-54.79	471.9	0.9356	21.9323569
26.08.2014 12:49:20.2	-54.79	471.9	0.9847	22.5004999
26.08.2014 12:49:20.3	-54.06	472.3	0.8432	20.8211875
26.08.2014 12:50:55.2	-53.79	482.7	0.9901	22.5621108
26.08.2014 12:50:55.0	-53.65	482.4	0.9542	22.1492948
26.08.2014 12:50:55.1	-53.3	482.5	0.9589	22.203777
26.08.2014 12:49:20.5	-52.22	472.2	0.7364	19.4579502
26.08.2014 12:49:20.6	-52.05	472.2	0.8428	20.8162484
26.08.2014 12:49:20.4	-51.99	472.6	0.7646	19.8270154
26.08.2014 12:50:54.9	-51.2	482.4	0.8976	21.4823416
26.08.2014 12:50:54.8	-50.61	482.4	0.9293	21.8583898
26.08.2014 12:50:54.7	-50.46	482.3	0.918	21.7250877
26.08.2014 12:50:54.6	-50.12	482.2	0.9284	21.8478026
26.08.2014 12:49:20.8	-49.67	472.8	0.8724	21.1786379
26.08.2014 12:49:20.9	-49.61	472.3	0.7425	19.5383743
26.08.2014 12:49:20.7	-49.45	472.6	0.8022	20.308672
26.08.2014 12:49:21.0	-48.44	472.4	0.9891	22.5507141
26.08.2014 12:50:54.5	-48.29	482.2	0.9524	22.1283937
26.08.2014 12:50:54.4	-48.07	482.2	1.0086	22.7719216
26.08.2014 12:50:54.3	-48.05	482	0.9496	22.0958417
26.08.2014 12:49:21.2	-47.09	472.9	0.8571	20.9921028
26.08.2014 12:49:21.3	-47.03	472.6	0.8907	21.3996132
26.08.2014 12:49:21.1	-46.89	473	0.8445	20.8372319
26.08.2014 12:50:54.2	-46.37	482	0.9069	21.5933437
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26.08.2014 12:50:54.0	-45.38	481.9	0.9185	21.7310033
26.08.2014 12:50:53.9	-45.29	481.7	0.8826	21.3020872
26.08.2014 12:49:21.4	-44.64	472.8	0.8776	21.2416625
26.08.2014 12:49:21.6	-44.49	473.1	0.8241	20.5840181
26.08.2014 12:49:21.5	-44.47	473.2	0.8734	21.1907726
26.08.2014 12:49:21.7	-43.7	472.9	0.8118	20.4298285
26.08.2014 12:50:53.8	-42.72	481.7	0.8898	21.3887989
26.08.2014 12:50:53.7	-42.63	481.9	0.9368	21.9464176
26.08.2014 12:50:53.6	-42.6	481.7	0.9201	21.7499224
26.08.2014 12:49:21.9	-41.6	473.4	0.7564	19.7204108
26.08.2014 12:49:22.0	-41.53	473.4	0.8404	20.7865885
26.08.2014 12:49:21.8	-41.28	473.1	0.8854	21.3358503
26.08.2014 12:50:53.5	-41.11	481.5	0.8804	21.2755215
26.08.2014 12:50:53.4	-40.08	481.5	0.8708	21.159208
26.08.2014 12:50:53.2	-40.03	481.4	0.9133	21.669402
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26.08.2014 12:49:22.1	-39.67	473.2	0.8154	20.4750773

26.08.2014 12:49:22.3	-38.95	473.7	0.8251	20.5965031
26.08.2014 12:49:22.2	-38.88	473.5	0.8767	21.2307678
26.08.2014 12:49:22.4	-38.7	473.5	0.8499	20.9037456
26.08.2014 12:50:52.9	-37.63	481.4	0.8861	21.3442828
26.08.2014 12:50:53.0	-37.59	481.3	0.9648	22.2719809
26.08.2014 12:50:53.1	-37.51	481.1	1.0127	22.818159
26.08.2014 12:49:22.6	-36.39	473.8	0.7305	19.3798454
26.08.2014 12:49:22.7	-36.38	474.1	0.8238	20.5802711
26.08.2014 12:50:52.8	-36.38	481.3	0.9806	22.4536083
26.08.2014 12:49:22.5	-36.19	473.5	0.7888	20.138339
26.08.2014 12:50:52.6	-34.89	481.1	0.9798	22.4444473
26.08.2014 12:49:22.8	-34.85	473.8	0.809	20.3945655
26.08.2014 12:50:52.5	-34.82	481.1	0.9358	21.9347009
26.08.2014 12:50:52.7	-34.65	480.9	0.9739	22.3767691
26.08.2014 12:49:23.0	-33.4	474.1	0.8238	20.5802711
26.08.2014 12:49:23.1	-33.39	474.3	0.7701	19.8981985
26.08.2014 12:49:22.9	-33.3	473.8	0.8234	20.5752741
26.08.2014 12:50:52.2	-32.58	480.9	0.8512	20.9197266
26.08.2014 12:50:52.3	-32.26	480.8	0.9007	21.519406
26.08.2014 12:50:52.4	-32.02	480.9	0.8704	21.1543477
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26.08.2014 12:50:52.1	-31.17	480.9	0.9273	21.8348557
26.08.2014 12:50:51.9	-29.86	480.5	0.899	21.4990883
26.08.2014 12:50:52.0	-29.45	480.6	0.9171	21.7144355
26.08.2014 12:49:23.5	-29.24	474.5	0.8508	20.9148107
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26.08.2014 12:49:23.7	-28.25	474.3	0.7329	19.4116547
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26.08.2014 12:50:51.7	-26.96	480.6	0.9316	21.8854226
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26.08.2014 12:49:24.4	-23.11	474.8	0.8038	20.3289149
26.08.2014 12:49:24.5	-22.62	474.9	0.7981	20.2567073
26.08.2014 12:50:50.8	-22.03	479.8	0.9019	21.5337363
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26.08.2014 12:49:24.7	-20.59	475.1	0.6474	18.2442723
26.08.2014 12:49:24.8	-20.53	475	0.7919	20.1778723
26.08.2014 12:49:24.6	-20.39	475.1	0.8353	20.7234204
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26.08.2014 12:50:50.5	-19.4	479.8	0.9151	21.6907453
26.08.2014 12:49:25.0	-17.98	475.3	0.7093	19.0965616
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26.08.2014 12:50:50.4	-17.95	479.6	0.9715	22.3491803
26.08.2014 12:49:24.9	-17.94	475.2	0.7437	19.5541566
26.08.2014 12:49:25.2	-17.1	475.2	0.7963	20.2338513
26.08.2014 12:50:50.3	-17.02	479.6	0.8868	21.3527118
26.08.2014 12:50:50.2	-16.76	479.7	0.9371	21.9499313
26.08.2014 12:50:50.1	-16.69	479.5	0.9601	22.2176659
26.08.2014 12:49:25.4	-15.4	475.6	0.8021	20.3074062
26.08.2014 12:49:25.3	-15.23	475.5	0.7258	19.3174003
26.08.2014 12:49:25.5	-15.15	475.5	0.8374	20.7494541
26.08.2014 12:50:50.0	-14.18	479.3	0.9513	22.1156112

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26.08.2014 12:50:49.6	-11.31	479.2	0.9088	21.6159515
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26.08.2014 12:49:26.3	-8.71	475.9	0.6998	18.9682457
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26.08.2014 12:50:48.7	-5.87	478.8	0.9344	21.9182871
26.08.2014 12:50:48.9	-5.77	478.5	0.9549	22.1574176
26.08.2014 12:50:48.8	-5.74	478.7	0.9289	21.853685
26.08.2014 12:49:26.9	-4.75	476.4	0.6829	18.7378067
26.08.2014 12:49:26.8	-4.72	476.2	0.8064	20.3617667
26.08.2014 12:49:26.7	-4.49	476.2	0.8114	20.4247947
26.08.2014 12:50:48.6	-3.37	478.7	0.9524	22.1283937
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26.08.2014 12:50:48.5	-2.95	478.3	0.9364	21.9417317
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26.08.2014 12:50:48.1	-0.57	478.2	0.9011	21.5241838
26.08.2014 12:50:47.9	0.14	478.3	0.9297	21.8630935
26.08.2014 12:49:27.5	0.42	476.6	0.8869	21.3539157
26.08.2014 12:49:27.6	0.45	476.7	0.8054	20.3491377
26.08.2014 12:49:27.4	0.6	476.6	0.7934	20.1969735
26.08.2014 12:50:47.7	1.94	478	0.8767	21.2307678
26.08.2014 12:49:27.7	2.04	476.9	0.7297	19.3692306
26.08.2014 12:50:47.6	2.06	478.1	0.9101	21.6314063
26.08.2014 12:50:47.8	2.17	478.1	0.954	22.1469734
26.08.2014 12:49:27.9	3.35	476.7	0.8189	20.5189736
26.08.2014 12:49:28.0	3.38	477	0.8399	20.7804041
26.08.2014 12:49:27.8	3.5	476.8	0.7727	19.9317602
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26.08.2014 12:49:28.1	6.02	477.1	0.7957	20.226227
26.08.2014 12:49:28.4	6.85	477.3	0.858	21.0031213
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26.08.2014 12:49:28.5	8.7	477.4	0.8886	21.3743714
26.08.2014 12:50:46.6	9.62	477.3	0.8991	21.500284
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26.08.2014 12:49:28.9	11.51	477.6	0.7443	19.5620429
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26.08.2014 12:50:45.9	15.41	477	0.9186	21.7321862
26.08.2014 12:49:29.5	15.65	477.9	0.8737	21.1944116
26.08.2014 12:50:45.8	16.41	476.9	0.8763	21.2259239
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26.08.2014 12:50:45.6	17.87	476.9	0.8639	21.0752111
26.08.2014 12:49:30.0	19.54	478.3	0.9036	21.5540213
26.08.2014 12:49:30.1	19.58	478.2	0.8393	20.7729803
26.08.2014 12:49:29.9	19.74	478.1	0.8466	20.8631235
26.08.2014 12:50:45.4	20.3	476.7	0.9015	21.5289606
26.08.2014 12:49:30.2	20.61	478.1	0.8438	20.8285941
26.08.2014 12:50:45.3	20.63	476.7	0.9708	22.3411272
26.08.2014 12:50:45.2	20.73	476.7	0.9146	21.6848187
26.08.2014 12:50:45.1	21.48	476.5	0.9133	21.669402
26.08.2014 12:49:30.4	22.11	478.5	0.7889	20.1396155
26.08.2014 12:49:30.3	22.32	478.4	0.8216	20.5527724
26.08.2014 12:49:30.5	22.51	478.3	0.7889	20.1396155
26.08.2014 12:50:45.0	23.1	476.4	0.9341	21.9147683
26.08.2014 12:50:44.8	23.19	476.5	0.9348	21.9229781
26.08.2014 12:50:44.9	23.34	476.5	0.9247	21.8042235
26.08.2014 12:49:30.7	24.72	478.6	0.8983	21.4907166
26.08.2014 12:49:30.8	24.74	478.7	0.8182	20.5102019
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26.08.2014 12:49:30.9	26.23	478.5	0.8159	20.481354
26.08.2014 12:49:31.1	27.27	478.8	0.8304	20.6625476
26.08.2014 12:49:31.0	27.41	478.5	0.8417	20.8026595
26.08.2014 12:49:31.2	27.96	478.9	0.8868	21.3527118
26.08.2014 12:50:44.1	28.57	476.1	0.9038	21.5564065
26.08.2014 12:50:44.2	28.62	476	0.94	21.9838688
26.08.2014 12:50:44.3	28.96	476	0.8928	21.4248252
26.08.2014 12:49:31.4	29.86	478.8	0.8487	20.8889831
26.08.2014 12:49:31.5	29.87	479	0.8977	21.4835383
26.08.2014 12:49:31.3	30.09	478.7	0.8557	20.9749514
26.08.2014 12:50:44.0	30.09	476	0.9352	21.927668
26.08.2014 12:50:43.7	31.16	475.9	0.8762	21.2247128
26.08.2014 12:50:43.8	31.29	475.8	0.9364	21.9417317
26.08.2014 12:50:43.9	31.63	475.8	0.9222	21.7747289
26.08.2014 12:49:31.6	31.8	479	0.8339	20.7060465
26.08.2014 12:49:31.8	32.46	479	0.8196	20.5277416
26.08.2014 12:49:31.7	32.5	478.9	0.8839	21.3177696
26.08.2014 12:49:31.9	33.59	479.1	0.8231	20.5715255
26.08.2014 12:50:43.4	33.74	475.6	0.9286	21.8501557
26.08.2014 12:50:43.5	34.06	475.6	0.8521	20.9307832
26.08.2014 12:50:43.6	34.16	475.8	0.9158	21.6990398
26.08.2014 12:50:43.3	34.8	475.7	0.8888	21.3767767
26.08.2014 12:49:32.1	35	479.1	0.8475	20.8742101

26.08.2014 12:49:32.2	35.03	479.2	0.8389	20.7680296
26.08.2014 12:49:32.0	35.17	479.1	0.8163	20.4863739
26.08.2014 12:50:43.0	36.13	475.4	0.9581	22.1945129
26.08.2014 12:50:43.1	36.55	475.4	0.8897	21.387597
26.08.2014 12:50:43.2	36.72	475.5	0.9215	21.7664632
26.08.2014 12:49:32.3	37.38	479.4	0.8442	20.8335304
26.08.2014 12:49:32.4	37.59	479.3	0.8439	20.8298283
26.08.2014 12:49:32.5	37.61	479.2	0.8451	20.8446328
26.08.2014 12:50:42.9	38.57	475.4	0.8894	21.3839908
26.08.2014 12:50:42.7	38.78	475.2	0.8419	20.8051309
26.08.2014 12:49:32.6	39.18	479.4	0.8061	20.3579788
26.08.2014 12:50:42.8	39.32	475.3	0.888	21.367154
26.08.2014 12:49:32.8	40.12	479.4	0.8383	20.7606014
26.08.2014 12:49:32.9	40.17	479.4	0.8342	20.7097707
26.08.2014 12:49:32.7	40.28	479.6	0.8539	20.9528789
26.08.2014 12:50:42.6	40.52	475.3	0.8771	21.2356106
26.08.2014 12:50:42.4	41.87	475	0.8869	21.3539157
26.08.2014 12:50:42.5	41.9	475.2	0.89	21.3912026
26.08.2014 12:50:42.3	41.98	475	0.9372	21.9511025
26.08.2014 12:49:33.0	42.02	479.6	0.7231	19.2814361
26.08.2014 12:49:33.2	42.74	479.6	0.7159	19.1852021
26.08.2014 12:49:33.1	42.81	479.8	0.843	20.8187181
26.08.2014 12:49:33.3	43.01	479.6	0.788	20.1281243
26.08.2014 12:50:42.0	44.14	474.7	0.9384	21.9651512
26.08.2014 12:50:42.2	44.3	475.1	0.8731	21.1871329
26.08.2014 12:50:42.1	44.34	475	0.9189	21.7357346
26.08.2014 12:49:33.5	45.29	479.9	0.8492	20.8951354
26.08.2014 12:49:33.6	45.34	479.8	0.8462	20.8581942
26.08.2014 12:49:33.4	45.49	479.8	0.8078	20.3794342
26.08.2014 12:50:41.9	45.84	474.7	0.937	21.9487601
26.08.2014 12:50:41.7	46.79	474.7	0.9214	21.7652821
26.08.2014 12:50:41.8	46.85	474.9	0.9098	21.6278408
26.08.2014 12:49:33.7	47.88	479.8	0.8141	20.458749
26.08.2014 12:50:41.6	47.93	474.5	0.8813	21.2863933
26.08.2014 12:49:33.9	48.26	480	0.808	20.3819568
26.08.2014 12:49:33.8	48.28	480	0.845	20.8433995
26.08.2014 12:49:34.0	48.83	479.9	0.8382	20.7593631
26.08.2014 12:50:41.5	49.21	474.5	0.9499	22.0993317
26.08.2014 12:50:41.4	49.48	474.6	0.954	22.1469734
26.08.2014 12:50:41.3	49.52	474.5	0.9165	21.7073312
26.08.2014 12:49:34.2	50.84	480.2	0.8152	20.4725661
26.08.2014 12:49:34.3	50.87	480.2	0.8487	20.8889831
26.08.2014 12:49:34.1	51.06	480	0.8749	21.2089616
26.08.2014 12:50:41.2	51.85	474.3	0.9398	21.98153
26.08.2014 12:50:41.1	52.19	474.3	1.0045	22.72559
26.08.2014 12:50:41.0	52.31	474.4	0.9216	21.7676442
26.08.2014 12:50:40.9	52.89	474.2	0.8721	21.1749962
26.08.2014 12:49:34.5	53.38	480.2	0.8044	20.3365008
26.08.2014 12:49:34.6	53.45	480.4	0.915	21.6895601
26.08.2014 12:49:34.4	53.47	480.1	0.7344	19.4315091
26.08.2014 12:49:34.7	54.33	480.3	0.8154	20.4750773
26.08.2014 12:50:40.6	54.7	474.1	0.9082	21.6088147
26.08.2014 12:50:40.7	54.94	474.1	0.9153	21.6931155
26.08.2014 12:50:40.8	54.96	474.1	0.8988	21.4966967
26.08.2014 12:49:34.9	56.02	480.4	0.9029	21.545671
26.08.2014 12:49:35.0	56.05	480.6	0.8522	20.9320114
26.08.2014 12:49:34.8	56.18	480.2	0.8151	20.4713104
26.08.2014 12:50:40.5	56.7	473.9	0.9246	21.8030445
26.08.2014 12:49:35.1	57.17	480.4	0.8443	20.8347643
26.08.2014 12:50:40.4	57.31	473.9	0.9243	21.7995071
26.08.2014 12:50:40.2	57.48	473.9	0.9461	22.0550841
26.08.2014 12:50:40.3	57.67	473.9	0.9007	21.519406
26.08.2014 12:49:35.3	58.6	480.6	0.8394	20.7742178
26.08.2014 12:49:35.2	58.71	480.4	0.7429	19.5436365
26.08.2014 12:49:35.4	59.09	480.7	0.6812	18.7144693
26.08.2014 12:50:40.0	60.26	473.6	0.8917	21.4116226

26.08.2014 12:50:39.9	60.35	473.7	0.9076	21.6016756
26.08.2014 12:50:40.1	60.63	473.7	0.9275	21.8372103
26.08.2014 12:49:35.6	61.5	480.5	0.8401	20.7828781
26.08.2014 12:50:39.8	61.54	473.6	0.8872	21.357527
26.08.2014 12:49:35.7	61.57	480.8	0.8601	21.0288087
26.08.2014 12:49:35.5	61.71	480.6	0.8406	20.7890618
26.08.2014 12:50:39.5	62.96	473.5	0.8268	20.6177102
26.08.2014 12:50:39.7	63.04	473.4	0.8904	21.3960009
26.08.2014 12:50:39.6	63.06	473.4	0.8914	21.4080205
26.08.2014 12:49:35.8	63.16	480.9	0.8496	20.900056
26.08.2014 12:49:36.0	64.11	480.7	0.8454	20.8483322
26.08.2014 12:49:35.9	64.17	480.7	0.8976	21.4823416
26.08.2014 12:49:36.1	64.17	480.9	0.8989	21.4978925
26.08.2014 12:50:39.4	65.3	473.4	0.9236	21.7912508
26.08.2014 12:50:39.2	65.37	473.2	0.9328	21.8995134
26.08.2014 12:50:39.3	65.82	473.1	0.9416	22.0025705
26.08.2014 12:50:39.1	66.26	473.3	0.9605	22.2222936
26.08.2014 12:49:36.3	66.66	480.9	0.8059	20.3554532
26.08.2014 12:49:36.4	66.71	480.9	0.8249	20.5940067
26.08.2014 12:49:36.2	66.76	481	0.8664	21.1056834
26.08.2014 12:49:36.5	67.9	481.1	0.8066	20.3642915
26.08.2014 12:50:38.8	68.16	473	0.9511	22.1132863
26.08.2014 12:50:38.9	68.61	472.9	0.9989	22.6621549
26.08.2014 12:50:39.0	68.71	473.2	0.9149	21.6883749
26.08.2014 12:49:36.8	69.62	481.1	0.8125	20.4386347
26.08.2014 12:49:36.7	69.64	481	0.8286	20.6401411
26.08.2014 12:49:36.6	69.83	481.1	0.9254	21.8124749
26.08.2014 12:50:38.7	70.21	473	0.9387	21.968662
26.08.2014 12:50:38.4	71.09	472.8	1.0198	22.8980079
26.08.2014 12:50:38.5	71.24	472.7	0.9712	22.3457293
26.08.2014 12:50:38.6	71.26	472.9	0.9063	21.5861995
26.08.2014 12:49:36.9	71.88	481.3	0.7504	19.6420408
26.08.2014 12:49:37.1	72.18	481.1	0.8801	21.2718963
26.08.2014 12:49:37.0	72.21	481.2	0.859	21.0153573
26.08.2014 12:49:37.2	72.76	481.3	0.8438	20.8285941
26.08.2014 12:50:38.1	73.47	472.5	0.9518	22.1214223
26.08.2014 12:50:38.3	73.75	472.8	0.9506	22.1074729
26.08.2014 12:50:38.2	73.95	472.6	0.9718	22.3526308
26.08.2014 12:49:37.5	74.76	481.2	0.7855	20.0961698
26.08.2014 12:49:37.4	74.8	481.3	0.8076	20.3769112
26.08.2014 12:50:38.0	74.94	472.6	0.9142	21.6800763
26.08.2014 12:49:37.3	75	481.4	0.7996	20.2757342
26.08.2014 12:50:37.8	76.43	472.3	1.0242	22.9473523
26.08.2014 12:50:37.9	76.43	472.5	0.9566	22.1771322
26.08.2014 12:50:37.7	76.51	472.3	0.9254	21.8124749
26.08.2014 12:49:37.6	76.79	481.5	0.8628	21.0617894
26.08.2014 12:49:37.8	77.7	481.4	0.8883	21.370763
26.08.2014 12:49:37.7	77.82	481.6	0.9026	21.5420913
26.08.2014 12:49:37.9	77.87	481.4	0.7984	20.2605141
26.08.2014 12:50:37.4	78.68	472	1.021	22.911476
26.08.2014 12:50:37.6	78.82	472.4	0.9095	21.6242747
26.08.2014 12:50:37.5	78.88	472.3	0.9603	22.2199799
26.08.2014 12:49:38.1	80.28	481.7	0.8273	20.6239435
26.08.2014 12:49:38.2	80.32	481.5	0.7805	20.0321079
26.08.2014 12:49:38.0	80.46	481.6	0.9007	21.519406
26.08.2014 12:50:37.3	80.46	472	1.0534	23.2721686
26.08.2014 12:50:37.1	81.33	472	0.9895	22.5552734
26.08.2014 12:50:37.2	81.43	472.2	0.9747	22.3859578
26.08.2014 12:49:38.3	81.53	481.5	0.8547	20.9626918
26.08.2014 12:50:37.0	82.51	471.8	0.9902	22.5632501
26.08.2014 12:49:38.5	82.83	481.8	0.8647	21.084967
26.08.2014 12:49:38.6	82.84	481.7	0.9016	21.5301546
26.08.2014 12:49:38.4	83.03	481.7	0.8052	20.3466109
26.08.2014 12:50:36.9	83.78	471.8	0.9165	21.7073312
26.08.2014 12:50:36.7	83.95	471.8	0.8849	21.3298251
26.08.2014 12:50:36.8	84.13	471.9	0.96	22.2165088

26.08.2014 12:49:38.7	85.65	481.7	0.798	20.2554382
26.08.2014 12:49:38.9	85.8	481.9	0.9144	21.6824476
26.08.2014 12:49:38.8	85.81	481.9	0.853	20.941834
26.08.2014 12:50:36.6	86.08	471.5	0.8847	21.3274146
26.08.2014 12:50:36.4	86.37	471.6	0.9359	21.9358729
26.08.2014 12:50:36.5	86.45	471.6	0.9284	21.8478026
26.08.2014 12:49:39.0	86.52	481.8	0.8858	21.3406693
26.08.2014 12:50:36.3	88.04	471.5	0.9186	21.7321862
26.08.2014 12:49:39.2	88.37	482	0.7757	19.9704151
26.08.2014 12:49:39.3	88.42	482	0.7883	20.1319554
26.08.2014 12:49:39.1	88.65	481.9	0.8229	20.5690261
26.08.2014 12:50:36.0	88.92	471.3	0.9371	21.9499313
26.08.2014 12:50:36.1	89.01	471.3	0.9444	22.0352604
26.08.2014 12:50:36.2	89.24	471.3	1.018	22.8777909
26.08.2014 12:49:39.4	90.29	481.9	0.7608	19.7776847
26.08.2014 12:49:39.6	90.98	482.2	0.814	20.4574925
26.08.2014 12:49:39.5	91.01	482.1	0.8551	20.9675965
26.08.2014 12:49:39.7	91.34	482	0.9188	21.7345519
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26.08.2014 12:50:35.8	92.09	471.1	0.943	22.0189215
26.08.2014 12:50:35.6	93.73	471.1	0.9176	21.720354
26.08.2014 12:49:39.9	93.89	482.2	0.8271	20.6214504
26.08.2014 12:49:40.0	93.95	482.4	0.7888	20.138339
26.08.2014 12:49:39.8	94.08	482	0.831	20.6700111
26.08.2014 12:50:35.4	94.17	470.8	1.0286	22.9965908
26.08.2014 12:50:35.3	94.37	470.9	1.0139	22.8316742
26.08.2014 12:50:35.5	94.57	470.9	0.9168	21.7108836
26.08.2014 12:49:40.1	95.3	482.2	0.8232	20.5727751
26.08.2014 12:49:40.3	96.48	482.4	0.8608	21.0373642
26.08.2014 12:49:40.2	96.6	482.1	0.8353	20.7234204
26.08.2014 12:50:35.0	96.94	470.6	0.8936	21.434422
26.08.2014 12:49:40.4	97.12	482.4	0.8319	20.6812012
26.08.2014 12:50:35.1	97.31	470.6	0.8835	21.3129455
26.08.2014 12:50:35.2	97.31	470.8	0.9779	22.4226749
26.08.2014 12:50:34.9	98.35	470.7	0.9971	22.6417273
26.08.2014 12:49:40.6	99.04	482.3	0.8297	20.6538369
26.08.2014 12:49:40.7	99.12	482.5	0.7171	19.2012746
26.08.2014 12:49:40.5	99.25	482.3	0.8908	21.4008144
26.08.2014 12:50:34.6	99.6	470.4	0.9979	22.6508085
26.08.2014 12:50:34.8	99.76	470.6	0.9493	22.0923512
26.08.2014 12:50:34.7	99.99	470.3	0.9266	21.8266128
26.08.2014 12:49:40.8	100.89	482.5	0.861	21.039808
26.08.2014 12:49:41.0	101.67	482.4	0.8663	21.1044653
26.08.2014 12:49:40.9	101.69	482.4	0.8588	21.0129107
26.08.2014 12:50:34.5	102.06	470.5	0.9697	22.3284664
26.08.2014 12:50:34.3	102.47	470.1	0.9659	22.2846737
26.08.2014 12:50:34.4	102.57	470.3	0.963	22.2511951
26.08.2014 12:49:41.1	102.66	482.6	0.8564	20.9835289
26.08.2014 12:50:34.2	103	470.2	0.9692	22.3227091
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26.08.2014 12:49:41.4	104.24	482.6	0.8481	20.8815979
26.08.2014 12:49:41.2	104.35	482.6	0.8158	20.4800988
26.08.2014 12:50:33.9	105.31	469.9	0.9527	22.1318786
26.08.2014 12:50:34.1	105.35	470.3	0.9813	22.4616211
26.08.2014 12:50:34.0	105.54	470.1	0.9846	22.4993573
26.08.2014 12:49:41.5	106.44	482.7	0.8116	20.4273117
26.08.2014 12:49:41.7	106.82	482.6	0.957	22.1817684
26.08.2014 12:49:41.6	106.83	482.7	0.8433	20.8224222
26.08.2014 12:50:33.8	107.75	470	0.9702	22.3342222
26.08.2014 12:50:33.7	107.88	470	1.1101	23.8902805
26.08.2014 12:50:33.5	108.04	469.7	0.994	22.6065031
26.08.2014 12:50:33.6	108.04	469.9	1.0054	22.7357685
26.08.2014 12:49:41.8	108.26	482.8	0.9199	21.7475584
26.08.2014 12:49:42.0	109.36	482.8	0.9151	21.6907453
26.08.2014 12:49:41.9	109.47	482.9	0.8873	21.3587306

26.08.2014 12:49:42.1	110.02	482.7	0.8462	20.8581942
26.08.2014 12:50:33.4	110.33	469.8	1.0186	22.8845319
26.08.2014 12:50:33.2	110.48	469.6	0.971	22.3434284
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26.08.2014 12:50:33.1	111.68	469.5	0.9893	22.5529939
26.08.2014 12:49:42.3	111.97	483.1	0.8456	20.8507982
26.08.2014 12:49:42.4	112	482.9	0.838	20.7568863
26.08.2014 12:49:42.2	112.16	482.9	0.9235	21.7900711
26.08.2014 12:50:33.0	113.18	469.6	1.0357	23.0758223
26.08.2014 12:50:32.9	113.23	469.5	1.0015	22.691629
26.08.2014 12:49:42.5	113.81	482.9	0.7777	19.9961436
26.08.2014 12:50:32.8	113.94	469.3	0.919	21.7369173
26.08.2014 12:49:42.7	114.55	483.2	0.8268	20.6177102
26.08.2014 12:49:42.6	114.61	483.1	0.7281	19.3479837
26.08.2014 12:49:42.8	114.8	483	0.876	21.2222903
26.08.2014 12:50:32.7	115.78	469.3	0.974	22.3779179
26.08.2014 12:50:32.5	115.89	469.3	1.0043	22.7233275
26.08.2014 12:50:32.6	116.11	469.4	0.9636	22.2581258
26.08.2014 12:49:43.0	117.1	483.2	0.8154	20.4750773
26.08.2014 12:49:43.1	117.13	483.3	0.9205	21.7546497
26.08.2014 12:49:42.9	117.25	483	0.882	21.2948453
26.08.2014 12:50:32.4	117.89	469.1	1.0384	23.1058812
26.08.2014 12:50:32.3	118.41	469.1	1.0889	23.66106
26.08.2014 12:49:43.2	118.45	483.2	0.8896	21.386395
26.08.2014 12:50:32.2	118.61	469.2	1.0602	23.347162
26.08.2014 12:50:32.1	118.63	469.1	1.1099	23.8881283
26.08.2014 12:49:43.5	119.68	483.4	0.9392	21.974512
26.08.2014 12:49:43.4	119.69	483.4	0.8906	21.3984119
26.08.2014 12:49:43.3	119.82	483.2	0.8727	21.1822791
26.08.2014 12:50:31.8	120.88	468.9	1.1111	23.9010385
26.08.2014 12:50:31.9	121.06	468.9	1.0736	23.4942426
26.08.2014 12:50:32.0	121.19	468.9	1.0868	23.6382332
26.08.2014 12:49:43.6	122.54	483.3	1.0704	23.4592027
26.08.2014 12:49:43.7	122.61	483.4	0.9287	21.8513322
26.08.2014 12:49:43.8	122.62	483.5	0.8062	20.3592415
26.08.2014 12:50:31.7	122.69	468.8	0.9711	22.3445789
26.08.2014 12:49:43.9	123.42	483.5	0.9104	21.6349712
26.08.2014 12:50:31.4	123.56	468.7	0.8698	21.1470552
26.08.2014 12:50:31.5	123.56	468.7	0.9365	21.9429032
26.08.2014 12:50:31.6	123.88	468.7	0.9701	22.3330711
26.08.2014 12:49:44.1	125.17	483.6	0.8948	21.4488091
26.08.2014 12:49:44.2	125.21	483.7	0.9218	21.770006
26.08.2014 12:49:44.0	125.46	483.4	0.9358	21.9347009
26.08.2014 12:50:31.1	126.55	468.5	1.0271	22.9798168
26.08.2014 12:50:31.3	126.64	468.6	0.9307	21.8748485
26.08.2014 12:50:31.2	126.71	468.5	0.9702	22.3342222
26.08.2014 12:49:44.3	127.23	483.6	0.941	21.9955593
26.08.2014 12:50:31.0	127.41	468.4	1.0222	22.9249362
26.08.2014 12:49:44.5	127.75	483.7	0.8168	20.4926471
26.08.2014 12:49:44.4	127.8	483.5	0.9415	22.0014022
26.08.2014 12:49:44.6	128.22	483.8	0.8461	20.8569618
26.08.2014 12:50:30.7	128.99	468.3	0.9385	21.9663215
26.08.2014 12:50:30.8	129.12	468.2	0.9542	22.1492948
26.08.2014 12:50:30.9	129.44	468.2	1.0064	22.7470725
26.08.2014 12:49:44.8	130.68	483.6	0.8903	21.3948075
26.08.2014 12:49:44.9	130.73	483.9	0.9194	21.7416473
26.08.2014 12:49:44.7	130.95	483.7	0.9066	21.5897719
26.08.2014 12:50:30.6	131.26	468.2	1.0082	22.7674056
26.08.2014 12:50:30.4	131.69	468	0.9426	22.0142511
26.08.2014 12:50:30.5	131.85	468	0.9592	22.20725
26.08.2014 12:50:30.3	132.02	468.1	0.9309	21.8771988
26.08.2014 12:49:45.0	132.27	484	0.9206	21.7558313
26.08.2014 12:49:45.2	133.26	483.8	0.8594	21.0202498
26.08.2014 12:49:45.1	133.4	483.8	0.8757	21.218656
26.08.2014 12:49:45.3	134.02	484	0.8409	20.7927711
26.08.2014 12:50:30.0	134.15	467.7	0.9333	21.9053819

26.08.2014 12:50:30.1	134.44	467.7	0.9732	22.3687259
26.08.2014 12:50:30.2	134.62	468	1.0212	22.9137199
26.08.2014 12:49:45.5	135.84	483.9	0.7916	20.1740499
26.08.2014 12:50:29.9	135.86	467.8	0.9785	22.4295527
26.08.2014 12:49:45.6	135.88	483.9	0.8452	20.845866
26.08.2014 12:49:45.4	136.09	484.1	0.8589	21.0141341
26.08.2014 12:50:29.8	137.11	467.7	0.9885	22.5438732
26.08.2014 12:50:29.7	137.13	467.5	0.9575	22.1875622
26.08.2014 12:50:29.6	137.57	467.5	1.0502	23.2367938
26.08.2014 12:49:45.7	137.83	484.1	0.8741	21.1992627
26.08.2014 12:49:45.9	138.44	484.1	0.93	21.8666207
26.08.2014 12:49:45.8	138.52	484.1	0.943	22.0189215
26.08.2014 12:49:46.0	139.59	484.1	0.8984	21.4919127
26.08.2014 12:50:29.3	139.87	467.3	0.928	21.8430955
26.08.2014 12:50:29.5	139.96	467.6	0.9924	22.5883015
26.08.2014 12:50:29.4	140.12	467.4	0.9756	22.3962905
26.08.2014 12:49:46.2	141	484.2	0.8476	20.8754416
26.08.2014 12:49:46.3	141.03	484.2	0.8327	20.6911429
26.08.2014 12:49:46.1	141.19	484.2	0.8854	21.3358503
26.08.2014 12:50:29.2	141.98	467.3	0.8915	21.4092213
26.08.2014 12:50:29.1	142.05	467.3	0.9159	21.7002245
26.08.2014 12:50:28.9	142.32	467.1	0.9214	21.7652821
26.08.2014 12:50:29.0	142.33	467.2	0.9625	22.2454178
26.08.2014 12:49:46.4	143.39	484.3	0.8768	21.2319786
26.08.2014 12:49:46.5	143.62	484.4	0.7765	19.9807105
26.08.2014 12:49:46.6	143.64	484.3	0.9077	21.6028657
26.08.2014 12:50:28.8	144.82	467.1	0.9	21.5110422
26.08.2014 12:50:28.7	145.03	467.1	0.8369	20.7432586
26.08.2014 12:50:28.6	145.05	467	0.8355	20.7259012
26.08.2014 12:49:46.7	145.19	484.2	0.9586	22.2003034
26.08.2014 12:49:46.9	146.16	484.5	0.8694	21.1421921
26.08.2014 12:49:46.8	146.27	484.4	0.8961	21.4643843
26.08.2014 12:49:47.0	146.99	484.4	0.899	21.4990883
26.08.2014 12:50:28.5	147.13	466.8	0.8062	20.3592415
26.08.2014 12:50:28.3	147.71	467	0.8966	21.4703718
26.08.2014 12:50:28.4	147.72	467	0.8355	20.7259012
26.08.2014 12:50:28.2	148.36	466.8	1.0231	22.9350261
26.08.2014 12:49:47.2	148.74	484.6	0.9798	22.4444473
26.08.2014 12:49:47.3	148.8	484.7	0.9145	21.6836332
26.08.2014 12:49:47.1	148.97	484.3	0.9933	22.5985417
26.08.2014 12:50:28.1	150.04	466.6	0.9635	22.2569708
26.08.2014 12:50:27.9	150.15	466.9	0.9707	22.3399765
26.08.2014 12:50:28.0	150.39	466.8	1.0224	22.9271788
26.08.2014 12:49:47.4	150.8	484.5	0.9541	22.1481341
26.08.2014 12:49:47.5	151.33	484.4	0.8072	20.3718643
26.08.2014 12:49:47.6	151.34	484.7	0.8269	20.618957
26.08.2014 12:49:47.7	151.72	484.7	0.9291	21.8560375
26.08.2014 12:50:27.8	152.27	466.6	0.9825	22.4753507
26.08.2014 12:50:27.7	152.97	466.3	1.0404	23.128122
26.08.2014 12:50:27.5	153.17	466.7	0.9425	22.0130833
26.08.2014 12:50:27.6	153.21	466.7	1.0364	23.0836191
26.08.2014 12:49:47.9	153.89	484.6	0.8717	21.1701395
26.08.2014 12:49:48.0	153.93	484.7	0.9442	22.032927
26.08.2014 12:49:47.8	154.07	484.6	0.8901	21.3924043
26.08.2014 12:49:48.1	155.41	484.8	0.9874	22.5313264
26.08.2014 12:50:27.2	155.47	466.5	0.8881	21.3683571
26.08.2014 12:50:27.3	155.58	466.1	0.9914	22.5769179
26.08.2014 12:50:27.4	155.83	466.2	0.9089	21.6171407
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26.08.2014 12:50:27.1	156.96	466.4	0.9297	21.8630935
26.08.2014 12:50:26.9	158.16	466.1	1.015	22.8440561
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26.08.2014 12:49:48.5	159.5	484.8	0.9873	22.5301854
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26.08.2014 12:50:25.8	166.36	465.5	0.977	22.4123543
26.08.2014 12:50:25.9	166.45	465.6	1.0034	22.7131435
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26.08.2014 12:49:49.7	167.52	484.9	0.9135	21.6717745
26.08.2014 12:49:49.8	167.52	484.9	0.9256	21.8148319
26.08.2014 12:49:49.6	167.77	485.1	0.9623	22.2431064
26.08.2014 12:50:25.4	168.62	465.5	1.0585	23.3284363
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26.08.2014 12:49:50.2	170.13	484.9	0.9186	21.7321862
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26.08.2014 12:49:50.8	175.61	485.1	0.9349	21.9241506
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26.08.2014 12:49:50.7	175.82	485.1	0.9424	22.0119154
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26.08.2014 12:50:24.0	179.77	465.1	0.8865	21.3490998
26.08.2014 12:49:51.5	180.77	485.2	1.0042	22.7221962
26.08.2014 12:49:51.6	180.82	485.1	1.0655	23.4054462
26.08.2014 12:49:51.4	180.98	485.1	0.875	21.2101736
26.08.2014 12:50:23.7	181.7	465.1	1.0612	23.3581702
26.08.2014 12:50:23.8	181.72	465	0.9663	22.2892875
26.08.2014 12:50:23.9	181.83	465	0.9993	22.6666919
26.08.2014 12:49:51.7	182.77	485	1.0194	22.8935168
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26.08.2014 12:49:51.9	183.71	485.2	0.8644	21.0813091
26.08.2014 12:49:51.8	183.74	485.1	0.94	21.9838688

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26.08.2014 12:49:52.3	186.35	485.2	0.9393	21.9756818
26.08.2014 12:49:52.1	186.42	485	0.9947	22.6144618
26.08.2014 12:50:23.1	187.24	464.5	0.9639	22.2615904
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26.08.2014 12:50:22.9	188.32	464.9	0.9663	22.2892875
26.08.2014 12:49:52.6	188.86	485.2	1.0418	23.1436778
26.08.2014 12:49:52.5	188.99	485	0.9383	21.9639808
26.08.2014 12:49:52.7	189.46	485.2	1.0513	23.24896
26.08.2014 12:50:22.6	189.56	464.8	0.9206	21.7558313
26.08.2014 12:50:22.7	189.84	464.6	0.8814	21.2876009
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26.08.2014 12:49:52.9	191.78	485.1	1.0596	23.3405546
26.08.2014 12:49:53.0	191.83	485.2	1.135	24.156729
26.08.2014 12:49:52.8	192.02	485.1	1.0843	23.6110296
26.08.2014 12:49:53.1	192.45	485.2	0.9517	22.1202602
26.08.2014 12:50:22.5	192.63	464.8	0.8761	21.2235015
26.08.2014 12:50:22.3	192.72	464.4	1.04	23.1236755
26.08.2014 12:50:22.4	193.1	464.4	0.9781	22.4249677
26.08.2014 12:50:22.2	193.34	464.7	1.0524	23.2611197
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26.08.2014 12:49:53.4	194.14	485.2	0.9432	22.0212564
26.08.2014 12:49:53.2	194.2	485.1	1.0289	22.9999441
26.08.2014 12:50:21.9	195.19	464.4	1.0837	23.6044961
26.08.2014 12:50:22.0	195.48	464.3	0.92	21.7487405
26.08.2014 12:50:22.1	195.8	464.6	0.9564	22.1748138
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26.08.2014 12:50:21.8	197.08	464.7	1.0399	23.1225638
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26.08.2014 12:49:54.0	199.57	485	0.883	21.3069138
26.08.2014 12:49:53.9	199.59	485.1	0.814	20.4574925
26.08.2014 12:49:54.1	199.95	485.1	1.0484	23.2168718
26.08.2014 12:50:21.2	200.41	464.1	1.0271	22.9798168
26.08.2014 12:50:21.4	200.65	464.5	1.0886	23.6578003
26.08.2014 12:50:21.3	200.77	464.2	1.0286	22.9965908
26.08.2014 12:50:21.1	201.74	464.2	1.077	23.5314153
26.08.2014 12:49:54.4	202.1	484.9	1.1437	24.2491354
26.08.2014 12:49:54.3	202.11	485	1.0443	23.17143
26.08.2014 12:49:54.2	202.31	485.2	0.9817	22.4661985
26.08.2014 12:50:20.9	203.28	464.1	0.9946	22.613325
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26.08.2014 12:50:21.0	203.32	464.4	1.0639	23.3878663
26.08.2014 12:49:54.5	203.65	485.1	1.0997	23.7781088
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26.08.2014 12:49:54.8	204.73	484.9	1.147	24.284094
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26.08.2014 12:50:20.7	205.7	464.4	0.9818	22.4673428
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26.08.2014 12:49:55.1	207.26	485	1.0692	23.4460492
26.08.2014 12:49:55.0	207.27	485.1	1.0556	23.2964576
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26.08.2014 12:49:55.2	208.39	484.9	0.9316	21.8854226
26.08.2014 12:50:20.3	208.4	464.4	0.9965	22.634914

26.08.2014 12:50:20.2	208.52	464.3	1.173	24.5577856
26.08.2014 12:50:20.1	209.16	463.8	1.0158	22.8530569
26.08.2014 12:49:55.5	210.18	484.9	1.0589	23.3328437
26.08.2014 12:49:55.4	210.21	485	1.0744	23.5029944
26.08.2014 12:49:55.3	210.41	485.1	0.9976	22.6474035
26.08.2014 12:50:20.0	211.12	463.9	1.0133	22.8249176
26.08.2014 12:50:19.9	211.2	464.3	0.9682	22.3111901
26.08.2014 12:50:19.8	211.3	464.2	1.0623	23.3702731
26.08.2014 12:49:55.6	212.46	484.9	0.9893	22.5529939
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26.08.2014 12:49:55.9	213.29	484.9	1.0104	22.7922325
26.08.2014 12:50:19.6	213.33	464	0.9728	22.3641285
26.08.2014 12:50:19.5	213.64	464.3	1.0051	22.7323762
26.08.2014 12:50:19.7	213.65	463.8	0.9851	22.5050694
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26.08.2014 12:49:56.1	215.33	485	0.9929	22.5939911
26.08.2014 12:49:56.2	215.36	484.9	0.9883	22.5415925
26.08.2014 12:49:56.0	215.55	484.9	1.0155	22.849682
26.08.2014 12:50:19.1	216.3	464.3	1.1409	24.2194339
26.08.2014 12:50:19.3	216.34	463.9	1.0377	23.0980919
26.08.2014 12:50:19.2	216.45	463.9	0.9813	22.4616211
26.08.2014 12:49:56.3	217.32	484.8	0.9012	21.5253781
26.08.2014 12:49:56.5	218.34	485	1.048	23.2124424
26.08.2014 12:49:56.4	218.41	484.9	1.0072	22.7561116
26.08.2014 12:49:56.6	218.44	484.8	1.0379	23.1003177
26.08.2014 12:50:19.0	218.7	463.9	0.9999	22.6734956
26.08.2014 12:50:18.9	218.9	463.8	1.0485	23.217979
26.08.2014 12:50:18.8	219.12	464	1.0161	22.8564313
26.08.2014 12:50:18.7	219.72	464.2	1.0249	22.9551927
26.08.2014 12:49:56.8	220.83	484.9	0.9816	22.4650543
26.08.2014 12:49:56.9	220.87	485	0.9655	22.280059
26.08.2014 12:49:56.7	221.01	484.8	1.0013	22.6893631
26.08.2014 12:50:18.5	221.46	463.8	0.996	22.6292347
26.08.2014 12:50:18.4	221.53	464.1	0.9527	22.1318786
26.08.2014 12:50:18.6	221.79	463.9	1.0204	22.9047429
26.08.2014 12:50:18.3	222.55	464.1	0.8905	21.3972105
26.08.2014 12:49:57.0	223.02	484.8	1.1531	24.3485825
26.08.2014 12:49:57.2	223.46	484.9	0.968	22.3088856
26.08.2014 12:49:57.1	223.48	484.7	1.06	23.3449598
26.08.2014 12:49:57.3	223.94	484.9	0.9964	22.6337782
26.08.2014 12:50:18.0	224.46	464.1	0.9471	22.0667368
26.08.2014 12:50:18.1	224.5	463.8	1.0195	22.8946396
26.08.2014 12:50:18.2	224.64	463.8	0.9939	22.605366
26.08.2014 12:49:57.5	226	484.7	0.9527	22.1318786
26.08.2014 12:49:57.6	226.02	484.8	0.8894	21.3839908
26.08.2014 12:49:57.4	226.24	484.7	1.042	23.1458992
26.08.2014 12:50:17.7	226.84	463.8	1.1244	24.0436621
26.08.2014 12:50:17.8	227.29	463.8	1.0816	23.5816146
26.08.2014 12:50:17.9	227.38	464.1	0.996	22.6292347
26.08.2014 12:50:17.6	228.31	464.2	1.0827	23.5936029
26.08.2014 12:49:57.8	228.58	484.7	0.8351	20.7209393
26.08.2014 12:49:57.7	228.61	484.8	0.9036	21.5540213
26.08.2014 12:49:57.9	228.64	484.7	0.9561	22.1713356
26.08.2014 12:50:17.3	229.5	463.9	0.95	22.1004949
26.08.2014 12:50:17.4	229.84	463.8	1.0257	22.96415
26.08.2014 12:50:17.5	229.84	464.1	1.1789	24.619469
26.08.2014 12:49:58.0	230.4	484.7	0.941	21.9955593
26.08.2014 12:49:58.2	231.18	484.6	1.0195	22.8946396
26.08.2014 12:49:58.1	231.28	484.7	0.8333	20.698596
26.08.2014 12:49:58.3	231.38	484.6	0.9889	22.548434
26.08.2014 12:50:17.2	232.2	464.3	1.0577	23.3196189
26.08.2014 12:50:17.0	232.49	463.9	0.8957	21.4595932
26.08.2014 12:50:17.1	232.95	464	0.966	22.2858273
26.08.2014 12:50:16.9	233.36	464	1.0046	22.7267212
26.08.2014 12:49:58.6	233.72	484.4	1.0956	23.7337416

26.08.2014 12:49:58.5	233.76	484.5	1.0584	23.3273343
26.08.2014 12:49:58.4	233.92	484.7	0.9405	21.9897148
26.08.2014 12:50:16.6	234.79	463.9	1.0394	23.1170043
26.08.2014 12:50:16.8	235.3	464.3	1.0901	23.674094
26.08.2014 12:50:16.7	235.35	464	1.0464	23.1947162
26.08.2014 12:49:58.7	235.98	484.5	0.9448	22.0399264
26.08.2014 12:49:58.9	236.36	484.4	0.8928	21.4248252
26.08.2014 12:49:58.8	236.38	484.6	0.991	22.5723629
26.08.2014 12:49:59.0	236.88	484.3	0.9051	21.571904
26.08.2014 12:50:16.5	237.15	464.2	1.0645	23.3944603
26.08.2014 12:50:16.2	237.76	463.9	0.9589	22.203777
26.08.2014 12:50:16.3	237.88	464	0.9714	22.3480301
26.08.2014 12:50:16.4	237.89	464.4	0.9512	22.1144487
26.08.2014 12:49:59.2	238.88	484.5	0.9122	21.6563485
26.08.2014 12:49:59.3	238.9	484.3	0.8587	21.0116873
26.08.2014 12:49:59.1	239.11	484.4	0.9068	21.5921532
26.08.2014 12:50:15.9	240.31	464.1	0.9052	21.5730957
26.08.2014 12:50:16.0	240.48	464.5	0.9757	22.3974383
26.08.2014 12:50:16.1	240.53	464.3	1.1006	23.7878369
26.08.2014 12:49:59.4	240.59	484.2	0.8875	21.3611376
26.08.2014 12:49:59.6	241.49	484.3	0.9717	22.3514807
26.08.2014 12:50:15.8	241.56	464	0.9189	21.7357346
26.08.2014 12:49:59.5	241.58	484.3	0.9262	21.8219012
26.08.2014 12:49:59.7	241.64	484.1	0.8973	21.4787514
26.08.2014 12:50:15.7	242.85	464.5	1.0036	22.715407
26.08.2014 12:50:15.6	242.99	464.5	1.0338	23.0546462
26.08.2014 12:50:15.5	243.75	464.1	0.9711	22.3445789
26.08.2014 12:49:59.9	244.03	484.2	1.0118	22.8080174
26.08.2014 12:50:00.0	244.08	484.1	0.8417	20.8026595
26.08.2014 12:49:59.8	244.22	484.1	0.9791	22.4364283
26.08.2014 12:50:15.4	245.32	464.2	1.1255	24.0554202
26.08.2014 12:50:00.1	245.37	484	0.8482	20.882829
26.08.2014 12:50:15.3	245.62	464.5	1.1888	24.7226258
26.08.2014 12:50:15.2	245.67	464.4	1.1032	23.8159179
26.08.2014 12:50:00.3	246.99	484	0.8797	21.2670618
26.08.2014 12:50:00.2	247.2	483.9	0.8465	20.8618913
26.08.2014 12:50:00.4	247.49	483.9	0.9817	22.4661985
26.08.2014 12:50:14.9	247.88	464.6	1.138	24.1886332
26.08.2014 12:50:15.0	247.88	464.4	1.1673	24.4980457
26.08.2014 12:50:15.1	248.11	464.3	1.1818	24.6497313
26.08.2014 12:50:14.8	249.42	464.5	1.0641	23.3900645
26.08.2014 12:50:00.6	249.59	483.8	0.8831	21.3081203
26.08.2014 12:50:00.7	249.6	483.8	0.8468	20.8655877
26.08.2014 12:50:00.5	249.79	483.8	0.8914	21.4080205
26.08.2014 12:50:14.6	250.96	464.6	0.9852	22.5062117
26.08.2014 12:50:14.5	250.99	464.7	0.9367	21.9452462
26.08.2014 12:50:14.7	251.06	464.4	1.0496	23.230155
26.08.2014 12:50:00.8	251.2	483.7	1.0329	23.0446086
26.08.2014 12:50:01.0	252.14	483.6	0.9847	22.5004999
26.08.2014 12:50:00.9	252.21	483.5	0.9583	22.1968293
26.08.2014 12:50:01.1	252.22	483.6	1.1349	24.1556648
26.08.2014 12:50:14.4	253.45	464.6	0.9572	22.1840861
26.08.2014 12:50:14.3	253.48	464.5	1.0671	23.4230129
26.08.2014 12:50:14.2	253.57	464.8	1.1171	23.965485
26.08.2014 12:50:14.1	254.15	464.9	1.0517	23.2533824
26.08.2014 12:50:01.3	254.71	483.3	1.0104	22.7922325
26.08.2014 12:50:01.4	254.77	483.4	1.0221	22.9238148
26.08.2014 12:50:01.2	254.87	483.4	1.0297	23.0088839
26.08.2014 12:50:01.5	255.79	483.4	1.0305	23.0178203
26.08.2014 12:50:13.9	256.11	464.8	0.9619	22.2384831
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26.08.2014 12:50:13.8	256.24	465.1	0.8902	21.3936059
26.08.2014 12:50:13.7	257.14	465.1	1.0444	23.1725394
26.08.2014 12:50:01.7	257.29	483.1	0.9565	22.175973
26.08.2014 12:50:01.6	257.5	483.2	0.9425	22.0130833
26.08.2014 12:50:01.8	257.73	483.2	0.8483	20.8840599

26.08.2014 12:50:13.5	259	465	0.9634	22.2558158
26.08.2014 12:50:13.4	259.19	465.4	0.9157	21.6978551
26.08.2014 12:50:13.6	259.36	464.9	0.9805	22.4524634
26.08.2014 12:50:02.0	260.23	482.9	0.9042	21.5611762
26.08.2014 12:50:02.1	260.26	482.9	0.9348	21.9229781
26.08.2014 12:50:01.9	260.46	483.2	0.93	21.8666207
26.08.2014 12:50:02.2	260.81	483	0.925	21.8077602
26.08.2014 12:50:13.1	261.38	465.4	0.939	21.9721722
26.08.2014 12:50:13.3	261.73	465.4	0.875	21.2101736
26.08.2014 12:50:13.2	261.83	465.2	0.8977	21.4835383
26.08.2014 12:50:13.0	262.75	465.6	0.8225	20.5640263
26.08.2014 12:50:02.4	262.81	482.7	1.0648	23.3977566
26.08.2014 12:50:02.5	262.82	482.6	0.8924	21.4200252
26.08.2014 12:50:02.3	263.07	482.9	0.9275	21.8372103
26.08.2014 12:50:12.7	263.92	465.7	0.8996	21.5062614
26.08.2014 12:50:12.8	264.48	465.6	0.8535	20.9479708
26.08.2014 12:50:02.6	264.54	482.7	0.7048	19.0358882
26.08.2014 12:50:12.9	264.67	465.6	0.8765	21.228346
26.08.2014 12:50:02.8	265.39	482.4	0.7314	19.39178
26.08.2014 12:50:02.7	265.48	482.6	0.7588	19.7516717
26.08.2014 12:50:02.9	266.48	482.3	0.6943	18.8935592
26.08.2014 12:50:12.6	266.6	465.9	0.87	21.1494863
26.08.2014 12:50:12.4	266.78	465.9	0.8249	20.5940067
26.08.2014 12:50:12.5	267.17	465.9	0.7996	20.2757342
26.08.2014 12:50:12.3	267.33	466.1	0.9773	22.415795
26.08.2014 12:50:03.2	268.34	482	0.7867	20.1115143
26.08.2014 12:50:03.1	268.35	482.2	0.8699	21.1482708
26.08.2014 12:50:03.0	268.59	482.3	0.7561	19.7164997
26.08.2014 12:50:12.0	269.32	466.3	1.0496	23.230155
26.08.2014 12:50:03.3	269.36	482	0.8309	20.6687673
26.08.2014 12:50:12.2	269.44	466.3	0.9138	21.6753328
26.08.2014 12:50:12.1	269.51	466.2	0.9305	21.872498
26.08.2014 12:50:03.5	270.54	481.8	0.8471	20.8692835
26.08.2014 12:50:03.4	270.71	482	0.9255	21.8136534
26.08.2014 12:50:03.6	271.09	481.6	0.7379	19.4777574
26.08.2014 12:50:11.8	272.02	466.7	0.8655	21.0947185
26.08.2014 12:50:11.7	272.06	466.6	0.9956	22.6246902
26.08.2014 12:50:11.9	272.09	466.6	0.8364	20.7370612
26.08.2014 12:50:11.6	272.9	466.8	0.8742	21.2004753
26.08.2014 12:50:03.8	273.51	481.6	0.698	18.9438353
26.08.2014 12:50:03.9	273.53	481.3	0.7686	19.8788102
26.08.2014 12:50:03.7	273.75	481.6	0.7795	20.0192709
26.08.2014 12:50:11.5	274.67	467.1	0.9164	21.7061469
26.08.2014 12:50:11.4	274.68	467.1	0.8563	20.9823037
26.08.2014 12:50:11.3	274.99	467.1	0.7608	19.7776847
26.08.2014 12:50:04.0	275.13	481.1	0.8341	20.7085293
26.08.2014 12:50:04.2	276.05	481.1	0.8287	20.6413865
26.08.2014 12:50:04.1	276.16	481.2	0.8243	20.5865157
26.08.2014 12:50:04.3	276.91	480.8	0.833	20.6948698
26.08.2014 12:50:11.0	276.99	467.7	0.9753	22.3928468
26.08.2014 12:50:11.2	277	467.3	0.8874	21.3599341
26.08.2014 12:50:11.1	277.19	467.6	0.9702	22.3342222
26.08.2014 12:50:04.5	278.63	480.7	0.7129	19.1449618
26.08.2014 12:50:04.4	278.86	480.7	0.7245	19.3000926
26.08.2014 12:50:04.6	278.98	480.6	0.7478	19.6079833
26.08.2014 12:50:10.8	279.53	467.9	0.8072	20.3718643
26.08.2014 12:50:10.7	279.67	468.1	0.7987	20.2643202
26.08.2014 12:50:10.9	279.69	467.6	0.8988	21.4966967
26.08.2014 12:50:10.6	280.7	468.2	0.7676	19.8658742
26.08.2014 12:50:04.9	281.36	480.2	0.8332	20.697354
26.08.2014 12:50:04.7	281.39	480.3	0.6673	18.5225493
26.08.2014 12:50:04.8	281.52	480.2	0.7895	20.1472727
26.08.2014 12:50:10.4	282.2	468.5	0.7981	20.2567073
26.08.2014 12:50:10.3	282.24	468.8	0.8563	20.9823037
26.08.2014 12:50:10.5	282.45	468.3	0.8182	20.5102019
26.08.2014 12:50:05.0	282.48	480	0.6547	18.346844

26.08.2014 12:50:05.1	284.17	479.8	0.6965	18.9234692
26.08.2014 12:50:05.2	284.2	479.6	0.7288	19.3572821
26.08.2014 12:50:05.3	284.57	479.6	0.6836	18.7474077
26.08.2014 12:50:10.0	284.78	469.2	0.7206	19.2480761
26.08.2014 12:50:10.1	284.97	469	0.7191	19.2280322
26.08.2014 12:50:10.2	285.03	468.9	0.9094	21.6230858
26.08.2014 12:50:09.9	286.22	469.5	0.8389	20.7680296
26.08.2014 12:50:05.5	286.68	479.1	0.6626	18.457204
26.08.2014 12:50:05.4	286.73	479.4	0.604	17.6221408
26.08.2014 12:50:05.6	286.88	479	0.647	18.2386352
26.08.2014 12:50:09.6	287.67	470.1	0.7089	19.0911762
26.08.2014 12:50:09.7	287.76	469.8	0.6543	18.3412385
26.08.2014 12:50:05.7	288.1	478.9	0.6295	17.9902859
26.08.2014 12:50:09.8	288.1	469.6	0.9238	21.7936101
26.08.2014 12:50:05.8	289.19	478.5	0.5659	17.0572904
26.08.2014 12:50:05.9	289.26	478.3	0.6097	17.7050964
26.08.2014 12:50:06.0	290.03	478.2	0.7031	19.0129167
26.08.2014 12:50:09.3	290.2	470.6	0.7345	19.432832
26.08.2014 12:50:09.5	290.26	470.3	0.7662	19.8477495
26.08.2014 12:50:09.4	290.58	470.4	0.6985	18.9506191
26.08.2014 12:50:09.2	290.96	471	0.669	18.5461281
26.08.2014 12:50:06.2	291.5	477.7	0.7433	19.5488972
26.08.2014 12:50:06.3	291.85	477.4	0.7116	19.1274981
26.08.2014 12:50:06.1	291.9	478.1	0.6691	18.5475142
26.08.2014 12:50:08.5	292.57	472.4	0.5995	17.5563727
26.08.2014 12:50:06.6	292.59	476.9	0.7952	20.2198711
26.08.2014 12:50:08.1	292.61	473.3	0.624	17.911522
26.08.2014 12:50:07.7	292.63	474.2	0.743	19.5449518
26.08.2014 12:50:08.9	292.67	471.5	0.4837	15.7698746
26.08.2014 12:50:08.0	292.69	473.6	0.6753	18.6332483
26.08.2014 12:50:07.0	292.72	476	0.7836	20.0718504
26.08.2014 12:50:09.0	292.72	471.3	0.5623	17.0029485
26.08.2014 12:50:07.3	292.73	475.3	0.6359	18.0815064
26.08.2014 12:50:09.1	292.73	471.2	0.6318	18.0231214
26.08.2014 12:50:08.7	292.75	472.1	0.5676	17.0828918
26.08.2014 12:50:08.4	292.77	472.8	0.6315	18.0188419
26.08.2014 12:50:08.3	292.78	472.9	0.6632	18.4655589
26.08.2014 12:50:07.4	292.81	474.9	0.7004	18.9763755
26.08.2014 12:50:08.8	292.81	472	0.5231	16.3995736
26.08.2014 12:50:08.2	292.82	473	0.6247	17.9215658
26.08.2014 12:50:06.9	292.84	476.4	0.7295	19.366576
26.08.2014 12:50:06.4	292.86	477.4	0.6954	18.9085201
26.08.2014 12:50:07.6	292.86	474.5	0.6563	18.3692489
26.08.2014 12:50:06.7	292.89	476.6	0.6915	18.8554234
26.08.2014 12:50:07.2	292.9	475.5	0.7399	19.5041357
26.08.2014 12:50:06.8	292.92	476.6	0.784	20.0769727
26.08.2014 12:50:07.1	292.97	475.7	0.7114	19.1248099
26.08.2014 12:50:06.5	293.01	477.3	0.7709	19.9085312
26.08.2014 12:50:08.6	293.01	472.2	0.6267	17.9502311
26.08.2014 12:50:07.8	293.04	473.9	0.7448	19.5686124
26.08.2014 12:50:07.5	293.1	474.7	0.6985	18.9506191
26.08.2014 12:50:07.9	293.13	473.8	0.6224	17.8885438

Calculation of mass flow rate based on polynomial equation fitted to the experimental data

$$y = -2.120630E-14x^6 + 6.269462E-13x^5 + 8.002421E-10x^4 + 2.843632E-08x^3 + 3.881689E-05x^2 - 1.634178E-03x + 2.113794E+01$$

Please enter below Polynomial Coefficients

Order no	Coeff
6	-2.120630E-14
5	6.269462E-13
4	8.002421E-10
3	2.843632E-08
2	3.881689E-05
1	-1.634178E-03
0	2.113794E+01

Polynomial curve (dP vs position)

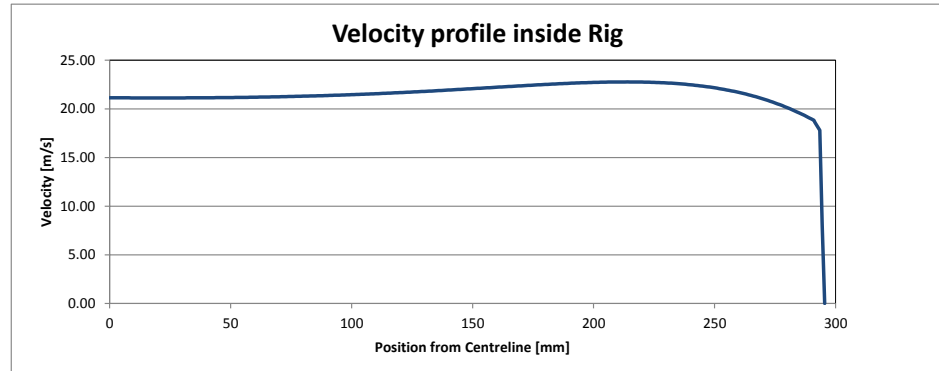
Please do NOT alter any of the figures below

position [mm]	Velocity [m/s]
0	21.137940
1	21.136345
2	21.134827
3	21.133388
4	21.132026
5	21.130744
6	21.129540
7	21.128414
8	21.127369
9	21.126403
10	21.125516
11	21.124711
12	21.123985
13	21.123341
14	21.122779
15	21.122298
16	21.121899
17	21.121584
18	21.121352
19	21.121203
20	21.121139
21	21.121160
22	21.121267
23	21.121459
24	21.121738
25	21.122104
26	21.122558
27	21.123100
28	21.123732
29	21.124454
30	21.125266
31	21.126169
32	21.127164
33	21.128252
34	21.129433
35	21.130708
36	21.132079
37	21.133545
38	21.135108
39	21.136768
40	21.138526

Actual Area	0.274324656	[m2]
Integrated area	0.274324656	[m2]
Area Error	0	[%]
Integrated Mass flow	2.294333721	[Kg/s]

Delta Area [m2]	Delta Mass flow [Kg/s]
0	0
3.14159E-06	2.58303E-05
9.42478E-06	7.74853E-05
1.5708E-05	0.000129133
2.19911E-05	0.000180775
2.82743E-05	0.000232411
3.45575E-05	0.000284042
4.08407E-05	0.000335668
4.71239E-05	0.00038729
5.34071E-05	0.000438908
5.96903E-05	0.000490524
6.59734E-05	0.000542138
7.22566E-05	0.000593749
7.85398E-05	0.00064536
8.4823E-05	0.00069697
9.11062E-05	0.000748581
9.73894E-05	0.000800192
0.000103673	0.000851804
0.000109956	0.000903419
0.000116239	0.000955036
0.000122522	0.001006657
0.000128805	0.001058281
0.000135088	0.00110991
0.000141372	0.001161545
0.000147655	0.001213185
0.000153938	0.001264832
0.000160221	0.001316486
0.000166504	0.001368148
0.000172788	0.001419818
0.000179071	0.001471498
0.000185354	0.001523189
0.000191637	0.001574889
0.00019792	0.001626602
0.000204204	0.001678326
0.000210487	0.001730064
0.00021677	0.001781815
0.000223053	0.001833581
0.000229336	0.001885362
0.000235619	0.001937159
0.000241903	0.001988972
0.000248186	0.002040804

Based on density in input/output



41	21.140383
42	21.142340
43	21.144398
44	21.146557
45	21.148819
46	21.151183
47	21.153653
48	21.156227
49	21.158907
50	21.161694
51	21.164589
52	21.167592
53	21.170705
54	21.173929
55	21.177264
56	21.180711
57	21.184271
58	21.187946
59	21.191736
60	21.195642
61	21.199664
62	21.203805
63	21.208064
64	21.212443
65	21.216942
66	21.221563
67	21.226306
68	21.231172
69	21.236162
70	21.241277
71	21.246517
72	21.251884
73	21.257378
74	21.263001
75	21.268752
76	21.274633
77	21.280644
78	21.286786
79	21.293060
80	21.299466
81	21.306006
82	21.312679
83	21.319487
84	21.326429
85	21.333507
86	21.340721
87	21.348072
88	21.355559
89	21.363184
90	21.370947
91	21.378848
92	21.386887
93	21.395065
94	21.403382
95	21.411839
96	21.420435
97	21.429170

0.000254469	0.002092654
0.000260752	0.002144523
0.000267035	0.002196412
0.000273319	0.002248321
0.000279602	0.002300253
0.000285885	0.002352207
0.000292168	0.002404184
0.000298451	0.002456186
0.000304734	0.002508213
0.000311018	0.002560266
0.000317301	0.002612346
0.000323584	0.002664454
0.000329867	0.00271659
0.00033615	0.002768756
0.000342434	0.002820953
0.000348717	0.002873181
0.000355	0.002925442
0.000361283	0.002977736
0.000367566	0.003030064
0.00037385	0.003082428
0.000380133	0.003134829
0.000386416	0.003187267
0.000392699	0.003239743
0.000398982	0.003292258
0.000405265	0.003344814
0.000411549	0.003397411
0.000417832	0.003450051
0.000424115	0.003502734
0.000430398	0.003555462
0.000436681	0.003608236
0.000442965	0.003661056
0.000449248	0.003713923
0.000455531	0.00376684
0.000461814	0.003819806
0.000468097	0.003872824
0.00047438	0.003925893
0.000480664	0.003979016
0.000486947	0.004032193
0.00049323	0.004085425
0.000499513	0.004138713
0.000505796	0.004192059
0.00051208	0.004245464
0.000518363	0.004298928
0.000524646	0.004352453
0.000530929	0.00440604
0.000537212	0.00445969
0.000543496	0.004513404
0.000549779	0.004567184
0.000556062	0.004621029
0.000562345	0.004674942
0.000568628	0.004728924
0.000574911	0.004782975
0.000581195	0.004837097
0.000587478	0.004891291
0.000593761	0.004945557
0.000600044	0.004999898
0.000606327	0.005054313

98	21.438045
99	21.447060
100	21.456215
101	21.465509
102	21.474943
103	21.484516
104	21.494228
105	21.504079
106	21.514069
107	21.524197
108	21.534463
109	21.544866
110	21.555406
111	21.566082
112	21.576893
113	21.587839
114	21.598919
115	21.610132
116	21.621478
117	21.632954
118	21.644560
119	21.656295
120	21.668157
121	21.680145
122	21.692258
123	21.704494
124	21.716852
125	21.729330
126	21.741926
127	21.754639
128	21.767465
129	21.780404
130	21.793453
131	21.806610
132	21.819873
133	21.833239
134	21.846706
135	21.860270
136	21.873930
137	21.887682
138	21.901523
139	21.915451
140	21.929461
141	21.943552
142	21.957719
143	21.971958
144	21.986267
145	22.000640
146	22.015075
147	22.029567
148	22.044113
149	22.058706
150	22.073344
151	22.088022
152	22.102734
153	22.117476
154	22.132243

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0.000618894	0.005163373
0.000625177	0.005218019
0.00063146	0.005272744
0.000637743	0.00532755
0.000644026	0.005382436
0.00065031	0.005437405
0.000656593	0.005492456
0.000662876	0.005547592
0.000669159	0.005602812
0.000675442	0.005658118
0.000681726	0.00571351
0.000688009	0.00576899
0.000694292	0.005824558
0.000700575	0.005880216
0.000706858	0.005935963
0.000713142	0.005991801
0.000719425	0.00604773
0.000725708	0.006103751
0.000731991	0.006159865
0.000738274	0.006216073
0.000744557	0.006272374
0.000750841	0.00632877
0.000757124	0.006385262
0.000763407	0.006441849
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0.000775973	0.006555311
0.000782257	0.006612188
0.00078854	0.006669161
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0.000807389	0.006840668
0.000813672	0.006898033
0.000819956	0.006955497
0.000826239	0.007013058
0.000832522	0.007070718
0.000838805	0.007128476
0.000845088	0.007186332
0.000851372	0.007244286
0.000857655	0.007302337
0.000863938	0.007360486
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0.000876504	0.007477073
0.000882788	0.007535511
0.000889071	0.007594044
0.000895354	0.007652672
0.000901637	0.007711393
0.00090792	0.007770208
0.000914203	0.007829114
0.000920487	0.007888112
0.00092677	0.007947199
0.000933053	0.008006376
0.000939336	0.008065639
0.000945619	0.008124989
0.000951903	0.008184424
0.000958186	0.008243941
0.000964469	0.008303354

155	22.147029
156	22.161830
157	22.176639
158	22.191452
159	22.206262
160	22.221063
161	22.235850
162	22.250615
163	22.265352
164	22.280056
165	22.294718
166	22.309333
167	22.323892
168	22.338389
169	22.352816
170	22.367165
171	22.381428
172	22.395598
173	22.409666
174	22.423623
175	22.437461
176	22.451172
177	22.464745
178	22.478173
179	22.491444
180	22.504550
181	22.517481
182	22.530227
183	22.542777
184	22.555120
185	22.567247
186	22.579146
187	22.590805
188	22.602214
189	22.613361
190	22.624233
191	22.634819
192	22.645106
193	22.655082
194	22.664733
195	22.674047
196	22.683011
197	22.691609
198	22.699829
199	22.707657
200	22.715078
201	22.722076
202	22.728638
203	22.734749
204	22.740391
205	22.745550
206	22.750210
207	22.754355
208	22.757966
209	22.761029
210	22.763524
211	22.765436

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0.000983319	0.008482806
0.000989602	0.008542712
0.000995885	0.008602688
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0.001039867	0.009024311
0.00104615	0.009084763
0.001052434	0.009145261
0.001058717	0.009205802
0.001065	0.00926638
0.001071283	0.009326993
0.001077566	0.009387636
0.001083849	0.009448306
0.001090133	0.009508997
0.001096416	0.009569707
0.001102699	0.009630428
0.001108982	0.009691158
0.001115265	0.009751891
0.001121549	0.009812621
0.001127832	0.009873344
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0.001140398	0.009994744
0.001146681	0.010055409
0.001152965	0.010116043
0.001159248	0.01017664
0.001165531	0.010237193
0.001171814	0.010297695
0.001178097	0.010358139
0.00118438	0.010418518
0.001190664	0.010478824
0.001196947	0.01053905
0.00120323	0.010599188
0.001209513	0.01065923
0.001215796	0.010719167
0.00122208	0.010778991
0.001228363	0.010838693
0.001234646	0.010898264
0.001240929	0.010957694
0.001247212	0.011016974
0.001253495	0.011076093
0.001259779	0.011135042
0.001266062	0.01119381
0.001272345	0.011252387
0.001278628	0.011310761
0.001284911	0.011368921
0.001291195	0.011426855
0.001297478	0.011484552
0.001303761	0.011541999
0.001310044	0.011599183
0.001316327	0.011656093
0.001322611	0.011712714

212	22.766745
213	22.767434
214	22.767484
215	22.766877
216	22.765594
217	22.763614
218	22.760919
219	22.757487
220	22.753300
221	22.748336
222	22.742574
223	22.735992
224	22.728570
225	22.720284
226	22.711113
227	22.701034
228	22.690023
229	22.678058
230	22.665113
231	22.651166
232	22.636191
233	22.620164
234	22.603059
235	22.584851
236	22.565513
237	22.545019
238	22.523343
239	22.500456
240	22.476332
241	22.450942
242	22.424257
243	22.396250
244	22.366891
245	22.336150
246	22.303996
247	22.270401
248	22.235331
249	22.198758
250	22.160647
251	22.120968
252	22.079687
253	22.036772
254	21.992189
255	21.945904
256	21.897882
257	21.848089
258	21.796489
259	21.743046
260	21.687724
261	21.630487
262	21.571297
263	21.510115
264	21.446905
265	21.381628
266	21.314243
267	21.244712
268	21.172994

0.001328894	0.011769033
0.001335177	0.011825036
0.001341466	0.01188071
0.001347743	0.011936039
0.001354026	0.011991009
0.00136031	0.012045604
0.001366593	0.012099809
0.001372876	0.012153608
0.001379159	0.012206984
0.001385442	0.012259922
0.001391726	0.012312403
0.001398009	0.01236441
0.001404292	0.012415926
0.001410575	0.012466932
0.001416858	0.012517409
0.001423141	0.012567339
0.001429425	0.012616701
0.001435708	0.012665476
0.001441991	0.012713644
0.001448274	0.012761184
0.001454557	0.012808074
0.001460841	0.012854293
0.001467124	0.012899818
0.001473407	0.012944627
0.00147969	0.012988697
0.001485973	0.013032005
0.001492257	0.013074525
0.00149854	0.013116235
0.001504823	0.013157107
0.001511106	0.013197118
0.001517389	0.013236241
0.001523672	0.01327445
0.001529956	0.013311716
0.001536239	0.013348014
0.001542522	0.013383314
0.001548805	0.013417587
0.001555088	0.013450805
0.001561372	0.013482938
0.001567655	0.013513955
0.001573938	0.013543825
0.001580221	0.013572516
0.001586504	0.013599998
0.001592787	0.013626236
0.001599071	0.013651197
0.001605354	0.013674847
0.001611637	0.013697152
0.00161792	0.013718077
0.001624203	0.013737585
0.001630487	0.01375564
0.00163677	0.013772205
0.001643053	0.013787242
0.001649336	0.013800713
0.001655619	0.013812577
0.001661903	0.013822796
0.001668186	0.013831329
0.001674469	0.013838134
0.001680752	0.013843169

269	21.099048
270	21.022834
271	20.944309
272	20.863432
273	20.780159
274	20.694447
275	20.606253
276	20.515532
277	20.422239
278	20.326329
279	20.227755
280	20.126472
281	20.022431
282	19.915587
283	19.805889
284	19.693290
285	19.577740
286	19.459189
287	19.337587
288	19.212883
289	19.085024
290	18.953959
291	18.819636
291.5	18.600000
292.5	18.200000
293.5	17.800000
294.5	8.000000
295.5	0.000000

0.001687035	0.013846392
0.001693318	0.013847759
0.001699602	0.013847226
0.001705885	0.013844748
0.001712168	0.013840279
0.001718451	0.013833773
0.001724734	0.013825182
0.001731018	0.013814458
0.001737301	0.013801553
0.001743584	0.013786417
0.001749867	0.013768999
0.00175615	0.013749247
0.001762433	0.013727111
0.001768717	0.013702537
0.001775	0.01367547
0.001781283	0.013645857
0.001787566	0.013613641
0.001793849	0.013578767
0.001800133	0.013541176
0.001806416	0.013500811
0.001812699	0.013457612
0.001818982	0.013411519
0.001825265	0.013362472
0.000914989	0.00662031
0.00183469	0.012989239
0.001840973	0.012747267
0.001847256	0.005748662
0.00185354	0

Please do not change any of the values in this sheet

Patm	Atmpspheric air pressure - (As recorded from engine data)	964.13 [mBar]
Patm		96413 [Pa]
Tatm		8.3 [C]
Tatm		281.3 [K]
Relative Humidity		100 [%]

$$\rho_{\text{humid air}}^{[1]} = \frac{p_d}{R_d T} + \frac{p_v}{R_v T} = \frac{p_d M_d + p_v M_v}{RT}$$

where:

$\rho_{\text{humid air}}$	Density of the humid air (kg/m ³)
p_d	Partial pressure of dry air (Pa)
R_d	Specific gas constant for dry air, 287.058 J/(kg·K)
T	Temperature (K)
p_v	Pressure of water vapor (Pa)
R_v	Specific gas constant for water vapor, 461.495 J/(kg·K)
M_d	Molar mass of dry air, 0.028964 (kg/mol)
M_v	Molar mass of water vapor, 0.018016 (kg/mol)
R	Universal gas constant, 8.314 J/(K·mol)

$$\rho_{\text{humid air}} = 1.188903 \text{ Kg/m}^3$$

$$0.426874127$$

The vapor pressure of water may be calculated from the [saturation vapor pressure](#) and [relative humidity](#). It is found by:

$$p_v = \phi p_{\text{sat}}$$

$$p_u = 1094.828 \text{ [Pa]}$$

Where:

p_v	Vapor pressure of water
ϕ	Relative humidity
p_{sat}	Saturation vapor pressure

The [saturation vapor pressure of water](#) at any given temperature is the vapor pressure when relative humidity is 100%. One formula ^[1] used to find the saturation vapor pressure is:

$$p_{\text{sat}} = 6.1078 \times 10^{\frac{7.5T}{T+237.3}}$$

$$p_{\text{sat}} = 10.94828 \text{ hPa}$$

$$p_{\text{sat}} = 1094.828 \text{ [Pa]}$$

where T is in degrees C. Note:

$$\rho = \frac{p}{R_{\text{specific}} T} \quad 1.19398 \text{ [kg/m}^3\text{]}$$

$$R = 287.058 \text{ J/Kg K}$$

$$T = \text{Temperature in degrees Kelvin}$$

$$P = \text{Absolute Pressure in Pa}$$