



Rig Mass Flow Rate Calculations

Please Enter Parameters in highlighted boxes below

Engine Data File		
Ambient Conditions		
Air Temperature	5	[C]
Atmospheric Pressure	975	[mBar]
Air Humidity	95	[%]
Viper Engine Parameters		
Engine Air Intake Mass Flow	18.7	[Kg/s]
Butane Flow Rate	1732	[Ltr/h]
Engine Speed	12150	[RPM]
ETC	650	[C]
Gas Delivery System Data File		
Gas Delivery System		
Mixed Gas (Fuel) Mass Flow rate	0.062	[Kg/s]
Oxygen Mass Flow rate	0.149	[Kg/s]

Please do not change anything in this box

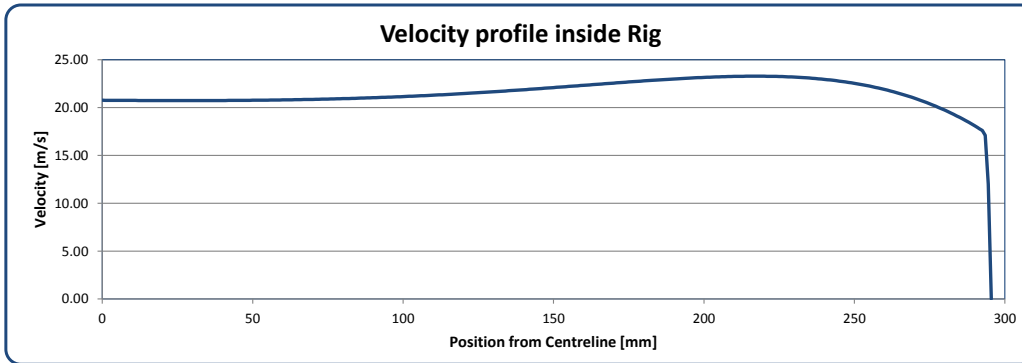
Test Date and Time = 08.04.2015 15:10:44.5

Calculated Parameters		
Air density	1.217898	[Kg/m ³]
Liquid Butane density	584	[Kg/m ³]
Butane mass Flow rate	0.280969	[Kg/s]
Air Fuel Ratio	79.23263	[]
Calculated Exhaust gas properties (Reaction Engines)		
Exhaust products density	0.389	[Kg/m ³]
Pitot Traverse Results		
Rig Gas flow rate - Integrated	2.303572	[Kg/s]
Total Rig Mass flow	2.514572	[Kg/s]
Rig Gas Temperature as read from TC 11		
Gas Temperature	511	[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]
Distance Travelled every 0.1	0.7	[mm]

Averaged Pitot dp

0.887630295

Average Vel

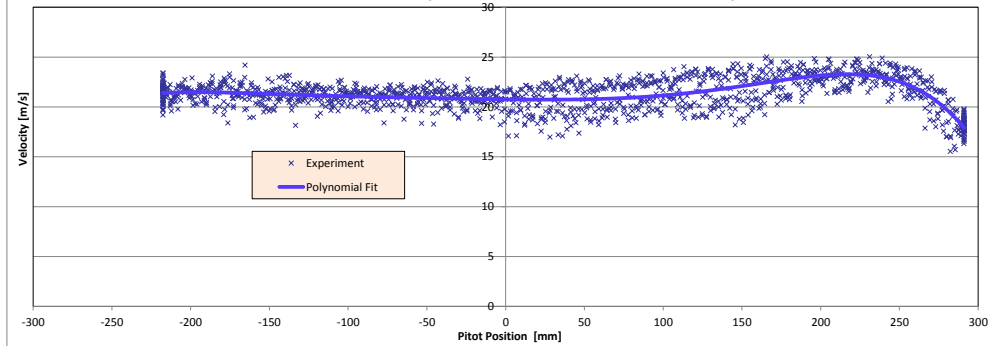
21.3043866 [m/s]

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]	O2 %
08.04.2015 15:10:44.5	-217.56	510.8	0.9412	21.99
08.04.2015 15:10:44.6	-217.59	510.7	0.9199	22.28
08.04.2015 15:10:44.7	-217.55	510.8	1.067	22.16
08.04.2015 15:10:44.8	-217.52	510.9	1.0096	21.91
08.04.2015 15:10:44.9	-217.55	510.8	0.9058	22.06
08.04.2015 15:10:45.0	-217.56	510.7	0.8039	22.28
08.04.2015 15:10:45.1	-217.53	511	0.7968	22.1
08.04.2015 15:10:45.2	-217.55	511	0.8858	21.97
08.04.2015 15:10:45.3	-217.58	510.9	0.9416	22.19
08.04.2015 15:10:45.4	-217.57	510.8	0.9195	22.28
08.04.2015 15:10:45.5	-217.58	511	0.955	22.07
08.04.2015 15:10:45.6	-217.54	511.1	0.8125	22.04
08.04.2015 15:10:45.7	-217.51	510.9	0.8982	22.31
08.04.2015 15:10:45.8	-217.58	510.9	0.9323	22.32
08.04.2015 15:10:45.9	-217.55	511.1	0.9157	22.09
08.04.2015 15:10:46.0	-217.53	511.1	0.9261	22.13
08.04.2015 15:10:46.1	-217.58	511	0.7548	22.4
08.04.2015 15:10:46.2	-217.58	510.9	0.7167	22.34
08.04.2015 15:10:46.3	-217.47	511.1	0.7599	22.07
08.04.2015 15:10:46.4	-217.49	511	0.8556	22.17
08.04.2015 15:10:46.5	-217.49	510.8	0.8408	22.48
08.04.2015 15:10:46.6	-217.49	510.9	0.8286	22.28
08.04.2015 15:10:46.7	-215.04	510.9	0.8726	22.01
08.04.2015 15:10:46.8	-214.95	510.8	0.9326	22.15
08.04.2015 15:10:46.9	-214.95	510.7	0.9043	22.41
08.04.2015 15:10:47.0	-214.2	510.8	0.9351	22.24
08.04.2015 15:10:47.1	-212.12	510.9	0.7466	22.03
08.04.2015 15:10:47.2	-212.35	510.7	0.8247	22.25
08.04.2015 15:10:47.3	-212.37	510.7	0.8354	22.41
08.04.2015 15:10:47.4	-211.26	510.8	0.8192	22.2
08.04.2015 15:10:47.5	-209.24	510.9	0.9293	22.12
08.04.2015 15:10:47.6	-209.49	510.8	0.8196	22.33
08.04.2015 15:10:47.7	-209.47	510.7	0.8713	22.36
08.04.2015 15:10:47.8	-208.02	511	0.7614	22.1
08.04.2015 15:10:47.9	-206.34	511.1	0.8321	22.11
08.04.2015 15:10:48.0	-206.52	510.9	0.8995	22.39
08.04.2015 15:10:48.1	-205.92	510.9	0.9435	22.37
08.04.2015 15:10:48.2	-203.39	511.1	0.9354	22.09
08.04.2015 15:10:48.3	-203.62	511.1	1.0069	22.13
08.04.2015 15:10:48.4	-203.63	510.9	0.9049	22.42
08.04.2015 15:10:48.5	-202.9	510.8	0.9289	22.33
08.04.2015 15:10:48.6	-200.78	510.9	0.8498	22.04
08.04.2015 15:10:48.7	-201.02	510.8	0.8712	22.13
08.04.2015 15:10:48.8	-201.06	510.7	0.9347	22.45
08.04.2015 15:10:48.9	-199.07	510.6	1.0214	22.33
08.04.2015 15:10:49.0	-198.45	510.7	0.8912	22.04
08.04.2015 15:10:49.1	-198.51	510.6	0.7914	22.18
08.04.2015 15:10:49.2	-198.51	510.4	0.8362	22.42
08.04.2015 15:10:49.3	-195.98	510.6	0.8004	22.23
08.04.2015 15:10:49.4	-195.56	510.6	0.9119	22.05
08.04.2015 15:10:49.5	-195.53	510.4	0.8622	22.25
08.04.2015 15:10:49.6	-194	510.4	0.9107	22.38
08.04.2015 15:10:49.7	-192.52	510.6	0.9518	22.16
08.04.2015 15:10:49.8	-192.63	510.6	0.9346	22.08
08.04.2015 15:10:49.9	-192.62	510.4	0.8985	22.32
08.04.2015 15:10:50.0	-191.05	510.3	0.8456	22.31
08.04.2015 15:10:50.1	-189.99	510.6	0.8085	22.06
08.04.2015 15:10:50.2	-190.03	510.6	0.8132	22.1
08.04.2015 15:10:50.3	-190.01	510.3	0.796	22.37

Calculated Velocity [m/s]
21.9978966
21.7475584
23.4219153
22.7832076
21.5802442
20.3301794
20.2402028
21.3406693
22.0025705
21.7428297
22.1585778
20.4386347
21.4895204
21.8936434
21.6978551
21.8207232
19.6995426
19.1959186
19.7659831
20.9737258
20.7915348
20.6401411
21.1810654
21.8971656
21.5623684
21.9264956
19.5922444
20.59151
20.7246609
20.5227318
21.8583898
20.5277416
21.1652818
19.7854819
20.6836871
21.5050661
22.0247582
21.9300125
22.7527224
21.5695205
21.853685
20.9025158
21.1640671
21.9218054
22.9159636
21.4056188
20.1715012
20.7345817
20.2858746
21.6527871
21.0544648
21.6385356
22.1214223
21.9206327
21.4931088
20.8507982
20.3882622
20.4474372
20.2300395

Raw Data Plot with Polynomial fit on Calculated Velocity



$$y = -2.38493150E-14x^6 - 2.86609425E-12x^5 + 1.33143777E-09x^4 + 2.69479095E-07x^3 + 2.36790220E-05x^2 - 1.99887670E-03x + 2.07639987E+01$$

08.04.2015 15:10:50.4	-187.39	510.3	0.8616	22.33	21.0471377
08.04.2015 15:10:50.5	-187.53	510.4	0.9477	22.03	22.0737255
08.04.2015 15:10:50.6	-187.51	510.5	0.9789	22.1	22.4341367
08.04.2015 15:10:50.7	-187.22	510.3	0.9742	22.39	22.3802153
08.04.2015 15:10:50.8	-184.4	510.3	0.7746	22.3	19.9562503
08.04.2015 15:10:50.9	-184.61	510.4	0.917	22	21.7132516
08.04.2015 15:10:51.0	-184.57	510.3	0.743	22.12	19.5449518
08.04.2015 15:10:51.1	-181.99	510.2	0.8899	22.4	21.3900008
08.04.2015 15:10:51.2	-181.67	510.2	0.9227	22.28	21.780631
08.04.2015 15:10:51.3	-181.64	510.3	0.7814	22.01	20.0436542
08.04.2015 15:10:51.4	-181.1	510.2	0.9362	22.16	21.9393883
08.04.2015 15:10:51.5	-178.9	510	0.8206	22.36	20.5402608
08.04.2015 15:10:51.6	-179.11	510.1	0.9821	22.17	22.4707751
08.04.2015 15:10:51.7	-179.04	510.2	0.7193	22.06	19.230706
08.04.2015 15:10:51.8	-178.35	510	0.7595	22.27	19.7607801
08.04.2015 15:10:51.9	-176.32	509.9	0.6585	22.38	18.4000112
08.04.2015 15:10:52.0	-176.58	510.1	0.9511	22.13	22.1132863
08.04.2015 15:10:52.1	-176.35	510.1	0.794	22.13	20.2046089
08.04.2015 15:10:52.2	-173.43	509.8	0.8452	22.35	20.845866
08.04.2015 15:10:52.3	-173.68	509.8	0.8694	22.32	21.1421921
08.04.2015 15:10:52.4	-173.62	509.8	0.9344	22.07	21.9182871
08.04.2015 15:10:52.5	-173.21	509.9	0.8913	22.13	21.4068197
08.04.2015 15:10:52.6	-170.9	509.5	0.9072	22.41	21.5969149
08.04.2015 15:10:52.7	-171.11	509.4	0.8692	22.33	21.1397602
08.04.2015 15:10:52.8	-171.04	509.5	0.9112	22.04	21.6444748
08.04.2015 15:10:52.9	-169.59	509.4	0.8596	22.12	21.0226955
08.04.2015 15:10:53.0	-168.44	509.3	0.9772	22.42	22.4146482
08.04.2015 15:10:53.1	-168.49	509.3	0.9538	22.3	22.1446518
08.04.2015 15:10:53.2	-168.49	509.4	0.9463	22.02	22.0574151
08.04.2015 15:10:53.3	-165.49	509.3	1.1381	22.14	24.1896959
08.04.2015 15:10:53.4	-165.64	509.2	1.0259	22.41	22.9663888
08.04.2015 15:10:53.5	-165.61	509.2	0.7554	22.23	19.7073708
08.04.2015 15:10:53.6	-164.5	509.3	0.7646	22.01	19.8270154
08.04.2015 15:10:53.7	-162.44	509.1	0.6967	22.17	18.9261859
08.04.2015 15:10:53.8	-162.71	509	0.8667	22.33	21.1093371
08.04.2015 15:10:53.9	-162.65	509.1	0.8379	22.14	20.7556478
08.04.2015 15:10:54.0	-160.47	509.1	0.935	22.04	21.9253231
08.04.2015 15:10:54.1	-160.09	508.9	0.8868	22.27	21.3527118
08.04.2015 15:10:54.2	-160.13	508.8	0.6997	22.3	18.9668904
08.04.2015 15:10:54.3	-158.74	509	0.8092	22.07	20.3970863
08.04.2015 15:10:54.4	-157.43	509.1	0.9377	22.04	21.9569572
08.04.2015 15:10:54.5	-157.54	508.8	0.8772	22.29	21.2368211
08.04.2015 15:10:54.6	-157.52	508.7	0.7986	22.28	20.2630516
08.04.2015 15:10:54.7	-154.98	508.9	0.8063	22	20.3605041
08.04.2015 15:10:54.8	-154.97	508.9	0.8807	22.06	21.279146
08.04.2015 15:10:54.9	-154.98	508.7	0.8662	22.34	21.1032472
08.04.2015 15:10:55.0	-154.93	508.5	0.7886	22.24	20.1357858
08.04.2015 15:10:55.1	-152.27	508.5	0.7642	21.95	19.8218285
08.04.2015 15:10:55.2	-152.45	508.5	0.7848	22.04	20.0872134
08.04.2015 15:10:55.3	-152.45	508.2	0.9053	22.34	21.5742873
08.04.2015 15:10:55.4	-150.05	508.3	0.7452	22.21	19.5738664
08.04.2015 15:10:55.5	-149.43	508.3	0.8907	21.94	21.3996132
08.04.2015 15:10:55.6	-149.51	508.2	0.8441	22.08	20.8322965
08.04.2015 15:10:55.7	-149.49	508	0.7649	22.29	19.8309047
08.04.2015 15:10:55.8	-147.25	508.1	0.7525	22.12	19.6695058
08.04.2015 15:10:55.9	-146.94	508.3	0.7585	21.92	19.7477668
08.04.2015 15:10:56.0	-146.91	508.1	0.9219	22.13	21.7711868
08.04.2015 15:10:56.1	-146.28	508	0.7917	22.26	20.1753241
08.04.2015 15:10:56.2	-143.8	508.2	0.8421	22.04	20.8076019
08.04.2015 15:10:56.3	-144.02	508.2	0.8218	21.96	20.5552738
08.04.2015 15:10:56.4	-144.01	507.9	1.0269	22.18	22.9775793
08.04.2015 15:10:56.5	-143.28	507.7	0.9194	22.19	21.7416473
08.04.2015 15:10:56.6	-141.23	507.9	0.8629	21.92	21.0630099
08.04.2015 15:10:56.7	-141.49	508	0.8908	21.96	21.4008144
08.04.2015 15:10:56.8	-141.24	507.8	1.0329	22.21	23.0446086
08.04.2015 15:10:56.9	-138.38	507.8	0.834	22.16	20.7072879
08.04.2015 15:10:57.0	-138.54	508	0.8797	21.89	21.2670618
08.04.2015 15:10:57.1	-138.53	508	0.9883	21.94	22.5415925
08.04.2015 15:10:57.2	-137.33	507.9	0.8347	22.2	20.7159762
08.04.2015 15:10:57.3	-135.86	507.9	0.753	22.12	19.6760395
08.04.2015 15:10:57.4	-135.98	508	0.8451	21.81	20.8446328

08.04.2015 15:10:57.5	-135.93	508	0.7859	21.96	20.1012859
08.04.2015 15:10:57.6	-133.61	507.8	0.8749	22.23	21.2089616
08.04.2015 15:10:57.7	-133.41	507.8	0.6418	22.08	18.1651946
08.04.2015 15:10:57.8	-133.4	507.9	0.7971	21.83	20.2440127
08.04.2015 15:10:57.9	-132.65	507.7	0.8319	21.96	20.6812012
08.04.2015 15:10:58.0	-130.26	507.6	0.8446	22.15	20.8384655
08.04.2015 15:10:58.1	-130.51	507.7	0.9765	21.97	22.4066186
08.04.2015 15:10:58.2	-130.51	507.8	0.82	21.83	20.5327502
08.04.2015 15:10:58.3	-128.58	507.5	0.826	22.03	20.6077331
08.04.2015 15:10:58.4	-127.87	507.5	0.8436	22.12	20.8261256
08.04.2015 15:10:58.5	-127.94	507.6	0.9187	21.89	21.7333691
08.04.2015 15:10:58.6	-127.95	507.6	0.8531	21.85	20.9430615
08.04.2015 15:10:58.7	-125.77	507.4	0.9602	22.09	22.2188229
08.04.2015 15:10:58.8	-125.39	507.3	0.9718	22.07	22.3526308
08.04.2015 15:10:58.9	-125.38	507.5	0.8091	21.79	20.395826
08.04.2015 15:10:59.0	-124.79	507.6	0.9427	21.85	22.0154188
08.04.2015 15:10:59.1	-122.23	507.4	0.9282	22.11	21.8454492
08.04.2015 15:10:59.2	-122.52	507.4	0.8846	22.04	21.3262092
08.04.2015 15:10:59.3	-122.42	507.7	0.9072	21.78	21.5969149
08.04.2015 15:10:59.4	-120.6	507.6	0.955	21.83	22.1585778
08.04.2015 15:10:59.5	-119.46	507.5	0.8369	22.09	20.7432586
08.04.2015 15:10:59.6	-119.53	507.6	0.7067	21.99	19.0615294
08.04.2015 15:10:59.7	-119.52	507.8	0.8591	21.72	21.0165806
08.04.2015 15:10:59.8	-117.64	507.7	0.7308	21.84	19.3838244
08.04.2015 15:10:59.9	-116.93	507.8	0.9384	22.13	21.9651512
08.04.2015 15:11:00.0	-116.98	507.9	0.832	21.96	20.6824442
08.04.2015 15:11:00.1	-116.7	508	0.7978	21.75	20.2528998
08.04.2015 15:11:00.2	-114.24	507.9	0.7817	21.89	20.0475014
08.04.2015 15:11:00.3	-114.46	507.9	0.8656	22.07	21.0959371
08.04.2015 15:11:00.4	-114.42	508	0.894	21.88	21.4392188
08.04.2015 15:11:00.5	-111.79	508.2	0.8035	21.77	20.3251209
08.04.2015 15:11:00.6	-111.47	508	0.8454	21.97	20.8483322
08.04.2015 15:11:00.7	-111.48	508	0.94	22.06	21.9838688
08.04.2015 15:11:00.8	-110.92	508.2	0.7513	21.8	19.6538163
08.04.2015 15:11:00.9	-108.73	508.4	0.8535	21.82	20.9479708
08.04.2015 15:11:01.0	-108.94	508.1	0.854	22.02	20.9541058
08.04.2015 15:11:01.1	-108.96	508.1	0.7804	22.01	20.0308246
08.04.2015 15:11:01.2	-106.27	508.4	0.8134	21.74	20.4499514
08.04.2015 15:11:01.3	-106.36	508.4	0.7478	21.79	19.6079833
08.04.2015 15:11:01.4	-106.35	508.2	0.8455	22.08	20.8495652
08.04.2015 15:11:01.5	-106.22	508.3	0.9918	22.03	22.581472
08.04.2015 15:11:01.6	-103.65	508.4	0.8349	21.7	20.7184579
08.04.2015 15:11:01.7	-103.83	508.4	0.8972	21.79	21.4775545
08.04.2015 15:11:01.8	-103.84	508.2	0.7915	22.07	20.1727756
08.04.2015 15:11:01.9	-102.58	508.3	0.8236	21.93	20.5777727
08.04.2015 15:11:02.0	-101.11	508.4	0.9061	21.68	21.5838176
08.04.2015 15:11:02.1	-101.28	508.3	0.8891	21.81	21.3803841
08.04.2015 15:11:02.2	-100.66	508.2	0.8912	22.07	21.4056188
08.04.2015 15:11:02.3	-98.13	508.3	0.8865	21.87	21.3490998
08.04.2015 15:11:02.4	-98.41	508.4	0.8436	21.67	20.8261256
08.04.2015 15:11:02.5	-98.31	508.3	0.8591	21.87	21.0165806
08.04.2015 15:11:02.6	-96.68	508.2	0.9201	21.96	21.7499224
08.04.2015 15:11:02.7	-95.76	508.4	0.974	21.74	22.3779179
08.04.2015 15:11:02.8	-95.73	508.4	0.7791	21.67	20.0141338
08.04.2015 15:11:02.9	-95.74	508.3	0.9068	21.9	21.5921532
08.04.2015 15:11:03.0	-93.89	508.2	0.903	21.9	21.5468641
08.04.2015 15:11:03.1	-93.18	508.5	0.803	21.65	20.318796
08.04.2015 15:11:03.2	-93.2	508.5	0.8673	21.66	21.1166426
08.04.2015 15:11:03.3	-91.94	508.3	0.8166	21.92	20.4901381
08.04.2015 15:11:03.4	-90.12	508.3	0.8129	21.87	20.4436651
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08.04.2015 15:11:03.7	-87.95	508.2	0.8119	21.95	20.4310868
08.04.2015 15:11:03.8	-87.76	508.1	0.744	21.87	19.5581001
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08.04.2015 15:11:04.3	-85.14	507.9	0.785	21.57	20.0897728
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08.04.2015 15:11:04.8	-79.56	507.6	0.7598	21.8	19.7646825
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08.04.2015 15:11:47.0	235.43	511.4	0.9862	21.05	22.5176309
08.04.2015 15:11:47.1	235.28	511.4	0.9514	20.74	22.1167735

08.04.2015 15:11:47.2	235.26	511.3	1.0964	20.88	23.7424051
08.04.2015 15:11:47.3	237.42	511.2	1.1493	21.11	24.3084295
08.04.2015 15:11:47.4	237.87	511.3	1.0626	20.97	23.3735728
08.04.2015 15:11:47.5	237.8	511.4	1.0307	20.76	23.0200538
08.04.2015 15:11:47.6	238.3	511.2	1.0362	20.95	23.0813917
08.04.2015 15:11:47.7	240.63	511.1	0.9896	21.1	22.5564131
08.04.2015 15:11:47.8	240.37	511.4	0.9624	20.88	22.2442621
08.04.2015 15:11:47.9	240.39	511.5	0.9958	20.79	22.6269626
08.04.2015 15:11:48.0	242.98	511.3	1.0084	21.01	22.7696637
08.04.2015 15:11:48.1	242.89	511.3	0.9609	21.04	22.2269204
08.04.2015 15:11:48.2	242.92	511.6	0.8213	20.77	20.5490197
08.04.2015 15:11:48.3	244.78	511.7	0.8412	20.8	20.7964798
08.04.2015 15:11:48.4	245.56	511.5	0.8808	21.05	21.2803541
08.04.2015 15:11:48.5	245.49	511.5	0.9449	21.02	22.0410927
08.04.2015 15:11:48.6	245.79	511.8	1.0202	20.72	22.9024982
08.04.2015 15:11:48.7	248.2	511.8	1.0885	20.8	23.6567137
08.04.2015 15:11:48.8	248	511.7	1.1245	21.01	24.0447312
08.04.2015 15:11:48.9	248.08	511.8	1.0421	20.97	23.1470098
08.04.2015 15:11:49.0	250.3	511.9	1.0099	20.71	22.7865924
08.04.2015 15:11:49.1	250.59	511.9	1.0098	20.83	22.7854642
08.04.2015 15:11:49.2	250.63	511.9	1.0307	21.08	23.0200538
08.04.2015 15:11:49.3	251.18	511.9	0.9096	20.95	21.6254634
08.04.2015 15:11:49.4	253.42	512	1.1073	20.57	23.8601323
08.04.2015 15:11:49.5	253.13	511.8	1.0967	20.85	23.7456531
08.04.2015 15:11:49.6	253.15	511.7	0.8611	21.09	21.0410298
08.04.2015 15:11:49.7	254.86	511.7	0.8429	20.9	20.8174833
08.04.2015 15:11:49.8	255.78	511.8	0.9204	20.72	21.7534679
08.04.2015 15:11:49.9	255.7	511.5	0.9285	20.93	21.8489792
08.04.2015 15:11:50.0	255.9	511.4	0.8785	21.02	21.2525516
08.04.2015 15:11:50.1	258.45	511.6	0.9122	20.8	21.6563485
08.04.2015 15:11:50.2	258.24	511.7	0.9344	20.75	21.9182871
08.04.2015 15:11:50.3	258.29	511.5	0.8469	21	20.8668197
08.04.2015 15:11:50.4	259.62	511.4	0.9006	20.99	21.5182113
08.04.2015 15:11:50.5	261.39	511.7	0.9097	20.71	21.6266521
08.04.2015 15:11:50.6	261.22	511.7	0.8715	20.76	21.1677108
08.04.2015 15:11:50.7	261.23	511.6	0.9685	20.99	22.3146464
08.04.2015 15:11:50.8	263.59	511.6	0.898	20.96	21.4871277
08.04.2015 15:11:50.9	263.8	511.9	0.8658	20.66	21.0983741
08.04.2015 15:11:51.0	263.77	511.9	0.8484	20.77	20.8852908
08.04.2015 15:11:51.1	264.35	511.8	0.9078	21.04	21.6040556
08.04.2015 15:11:51.2	266.58	511.9	0.8518	20.88	20.9270983
08.04.2015 15:11:51.3	266.32	512.1	0.7685	20.64	19.877517
08.04.2015 15:11:51.4	266.3	512	0.6212	20.77	17.8712908
08.04.2015 15:11:51.5	268.46	512	0.8608	21.02	21.0373642
08.04.2015 15:11:51.6	269.34	512.1	0.6797	20.86	18.6938534
08.04.2015 15:11:51.7	269.24	512.2	0.7415	20.66	19.5252128
08.04.2015 15:11:51.8	269.47	512	0.8014	20.86	20.298543
08.04.2015 15:11:51.9	271.97	511.9	0.8315	21	20.6762285
08.04.2015 15:11:52.0	271.77	512	0.8012	20.8	20.29601
08.04.2015 15:11:52.1	271.82	512	0.6725	20.72	18.5945786
08.04.2015 15:11:52.2	273.13	511.7	0.6313	20.92	18.0159883
08.04.2015 15:11:52.3	274.5	511.6	0.6889	20.97	18.8199424
08.04.2015 15:11:52.4	274.36	511.8	0.7307	20.68	19.3824981
08.04.2015 15:11:52.5	274.33	511.8	0.7232	20.73	19.2827693
08.04.2015 15:11:52.6	277.23	511.6	0.7525	20.98	19.6695058
08.04.2015 15:11:52.7	277.25	511.7	0.6446	20.95	18.2047763
08.04.2015 15:11:52.8	277.3	511.9	0.754	20.66	19.6891002
08.04.2015 15:11:52.9	278.06	512	0.6007	20.75	17.5739349
08.04.2015 15:11:53.0	280.11	511.8	0.5631	21	17.0150395
08.04.2015 15:11:53.1	279.81	511.9	0.5641	20.96	17.0301411
08.04.2015 15:11:53.2	280.05	512.1	0.6598	20.61	18.4181647
08.04.2015 15:11:53.3	282.52	512.1	0.5566	20.75	16.9165501
08.04.2015 15:11:53.4	282.34	512	0.4699	21.03	15.5432889
08.04.2015 15:11:53.5	282.42	512.1	0.5664	20.92	17.0648242
08.04.2015 15:11:53.6	283.64	512.2	0.7334	20.64	19.4182751
08.04.2015 15:11:53.7	285.08	512.2	0.6065	20.79	17.6585728
08.04.2015 15:11:53.8	284.94	512.2	0.5014	21.05	16.0558152
08.04.2015 15:11:53.9	285.5	512.4	0.4799	20.84	15.7078076
08.04.2015 15:11:54.0	287.72	512.5	0.6104	20.67	17.7152571
08.04.2015 15:11:54.1	287.44	512.4	0.5807	20.88	17.2789008
08.04.2015 15:11:54.2	287.52	512.4	0.6063	20.97	17.655661

08.04.2015 15:11:54.3	289.14	512.7	0.6685	20.75	18.5391963
08.04.2015 15:11:54.4	290.16	512.8	0.6386	20.73	18.1198523
08.04.2015 15:11:54.5	290.07	512.6	0.624	20.96	17.911522
08.04.2015 15:11:54.6	290.36	512.6	0.6305	20.99	18.0045695
08.04.2015 15:11:54.7	291.09	512.7	0.7146	20.72	19.167775
08.04.2015 15:11:54.8	290.99	512.8	0.6899	20.76	18.8335968
08.04.2015 15:11:54.9	290.96	512.4	0.6662	21	18.5072764
08.04.2015 15:11:55.0	291.09	512.4	0.5454	20.95	16.7454863
08.04.2015 15:11:55.1	291.1	512.5	0.6201	20.69	17.8554608
08.04.2015 15:11:55.2	291.07	512.4	0.534	20.76	16.5695543
08.04.2015 15:11:55.3	291.08	512.2	0.6009	21.04	17.5768602
08.04.2015 15:11:55.4	291.09	512.2	0.6325	20.95	18.033103
08.04.2015 15:11:55.5	291.06	512.2	0.7123	20.68	19.1369036
08.04.2015 15:11:55.6	291.05	512	0.6438	20.8	18.193476
08.04.2015 15:11:55.7	291.08	511.9	0.6506	21.08	18.289306
08.04.2015 15:11:55.8	291.1	511.9	0.5826	20.95	17.3071452
08.04.2015 15:11:55.9	291.13	511.9	0.6037	20.72	17.6177639
08.04.2015 15:11:56.0	291.1	511.7	0.5506	20.88	16.825125
08.04.2015 15:11:56.1	291.1	511.5	0.6034	21.09	17.6133859
08.04.2015 15:11:56.2	291.12	511.6	0.6104	20.87	17.7152571
08.04.2015 15:11:56.3	291.08	511.7	0.5349	20.76	16.5835115
08.04.2015 15:11:56.4	291.05	511.4	0.6534	20.99	18.3286198
08.04.2015 15:11:56.5	291.1	511.2	0.6561	21.04	18.3664498
08.04.2015 15:11:56.6	291.08	511.4	0.5834	20.78	17.3190238
08.04.2015 15:11:56.7	291.08	511.5	0.5652	20.8	17.0467375
08.04.2015 15:11:56.8	291.1	511.1	0.6236	21.03	17.9057803
08.04.2015 15:11:56.9	291.06	511	0.6942	21.02	18.8921986
08.04.2015 15:11:57.0	291.08	511.2	0.7555	20.77	19.7086752
08.04.2015 15:11:57.1	291.08	511.2	0.732	20.77	19.3997323
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08.04.2015 15:11:57.3	291.05	511	0.5843	21.01	17.3323775
08.04.2015 15:11:57.4	291.11	511.2	0.6032	20.71	17.6104666
08.04.2015 15:11:57.5	291.07	511.1	0.6764	20.79	18.6484181
08.04.2015 15:11:57.6	291.06	511.2	0.6607	21.1	18.4307221
08.04.2015 15:11:57.7	291.1	511.3	0.6307	20.99	18.0074249
08.04.2015 15:11:57.8	291.09	511.4	0.6345	20.72	18.0615913
08.04.2015 15:11:57.9	291.04	511.4	0.6141	20.83	17.7688674
08.04.2015 15:11:58.0	291.1	511.3	0.5836	21.09	17.3219922
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08.04.2015 15:11:58.2	291.14	511.5	0.6262	20.7	17.9430691
08.04.2015 15:11:58.3	291.15	511.3	0.681	20.91	18.7117219
08.04.2015 15:11:58.4	291.12	511.1	0.6889	21.04	18.8199424
08.04.2015 15:11:58.5	291.12	511.3	0.6928	20.83	18.8731389
08.04.2015 15:11:58.6	290.91	511.3	0.7467	20.75	19.5935565
08.04.2015 15:11:58.7	290.92	511.1	0.6745	21.01	18.622208
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08.04.2015 15:11:58.9	290.97	511.3	0.6838	20.78	18.75015
08.04.2015 15:11:59.0	290.94	511.4	0.62	20.82	17.854021
08.04.2015 15:11:59.1	290.94	511.1	0.6949	21.1	18.9017212
08.04.2015 15:11:59.2	290.93	511.1	0.6652	21.05	18.493381
08.04.2015 15:11:59.3	290.92	511.3	0.7057	20.79	19.0480383
08.04.2015 15:11:59.4	290.91	511.4	0.6019	20.86	17.5914796
08.04.2015 15:11:59.5	290.93	511.3	0.5188	21.14	16.3320304
08.04.2015 15:11:59.6	290.22	511.3	0.6035	21.07	17.6148453
08.04.2015 15:11:59.7	289.09	511.5	0.6294	20.74	17.9888569
08.04.2015 15:11:59.8	289.19	511.5	0.5695	20.87	17.1114598
08.04.2015 15:11:59.9	289.15	511.4	0.6463	21.13	18.2287662
08.04.2015 15:12:00.0	286.95	511.6	0.6864	21.01	18.7857628
08.04.2015 15:12:00.1	286.61	511.6	0.6391	20.76	18.1269445
08.04.2015 15:12:00.2	286.6	511.5	0.7558	20.93	19.7125878
08.04.2015 15:12:00.3	286.09	511.5	0.7457	21.13	19.580432
08.04.2015 15:12:00.4	283.86	511.7	0.7656	20.93	19.8399768
08.04.2015 15:12:00.5	284.09	511.8	0.7071	20.77	19.0669231
08.04.2015 15:12:00.6	284.08	511.7	0.8392	20.97	20.7717427
08.04.2015 15:12:00.7	281	511.7	0.8338	21.07	20.7048049
08.04.2015 15:12:00.8	281.16	512	0.6692	20.82	18.5489001
08.04.2015 15:12:00.9	281.14	512	0.8034	20.81	20.3238561
08.04.2015 15:12:01.0	280.97	511.7	0.8313	21.03	20.6737418
08.04.2015 15:12:01.1	278.42	511.6	0.7876	21.03	20.123015
08.04.2015 15:12:01.2	278.65	511.8	0.8871	20.74	21.3563233
08.04.2015 15:12:01.3	278.58	511.8	0.9126	20.81	21.6610961

08.04.2015 15:12:01.4	277.36	511.6	0.7819	21.07	20.0500659
08.04.2015 15:12:01.5	275.88	511.6	0.8951	21	21.4524044
08.04.2015 15:12:01.6	276.05	511.8	0.9145	20.72	21.6836332
08.04.2015 15:12:01.7	276	511.8	0.907	20.8	21.5945342
08.04.2015 15:12:01.8	273.31	511.7	0.9035	21.08	21.5528286
08.04.2015 15:12:01.9	273.14	511.8	0.8323	20.97	20.6861726
08.04.2015 15:12:02.0	273.14	511.9	0.9078	20.66	21.6040556
08.04.2015 15:12:02.1	272.43	511.9	0.9221	20.8	21.7735483
08.04.2015 15:12:02.2	270.29	511.9	1.03	21.04	23.0122355
08.04.2015 15:12:02.3	270.57	512	0.9867	20.94	22.5233384
08.04.2015 15:12:02.4	270.56	512.2	0.9399	20.65	21.9826994
08.04.2015 15:12:02.5	268.66	512	0.9228	20.87	21.7818112
08.04.2015 15:12:02.6	267.95	511.9	0.9388	21.03	21.9698321
08.04.2015 15:12:02.7	268.04	512.2	0.9941	20.81	22.6076403
08.04.2015 15:12:02.8	266.72	512.3	0.9973	20.73	22.6439979
08.04.2015 15:12:02.9	264.86	512.1	0.9125	20.96	21.6599093
08.04.2015 15:12:03.0	265.09	512	0.9835	20.98	22.4867856
08.04.2015 15:12:03.1	265.05	512.2	0.9746	20.73	22.3848094
08.04.2015 15:12:03.2	263.91	512.1	1.0267	20.75	22.9753416
08.04.2015 15:12:03.3	262.8	511.8	1.0846	20.99	23.6142957
08.04.2015 15:12:03.4	262.88	511.7	1.0308	20.96	23.0211705
08.04.2015 15:12:03.5	262.91	511.8	1.0193	20.68	22.8923939
08.04.2015 15:12:03.6	260	511.8	1.0861	20.73	23.6306193
08.04.2015 15:12:03.7	259.93	511.6	1.0481	21	23.2135498
08.04.2015 15:12:03.8	259.92	511.6	1.0718	20.92	23.4745391
08.04.2015 15:12:03.9	257.91	511.7	1.1046	20.63	23.8310247
08.04.2015 15:12:04.0	256.94	511.6	0.8775	20.73	21.2404523
08.04.2015 15:12:04.1	257.02	511.5	1.0366	21.04	23.0858463
08.04.2015 15:12:04.2	257.08	511.5	0.9661	20.9	22.2869808
08.04.2015 15:12:04.3	255.29	511.5	1.012	20.63	22.8102714
08.04.2015 15:12:04.4	254.79	511.4	1.0191	20.78	22.8901479
08.04.2015 15:12:04.5	254.83	511.2	1.1147	21.01	23.9397272
08.04.2015 15:12:04.6	253.38	511.4	1.0346	20.81	23.0635648
08.04.2015 15:12:04.7	251.74	511.4	0.9627	20.64	22.2477289
08.04.2015 15:12:04.8	251.94	511.2	1.0018	20.84	22.6950274
08.04.2015 15:12:04.9	251.4	511.1	1.0281	20.93	22.9910008
08.04.2015 15:12:05.0	249.16	511.2	1.095	20.7	23.7272418
08.04.2015 15:12:05.1	249.41	511.3	1.0535	20.66	23.2732732
08.04.2015 15:12:05.2	249.33	511	1.1191	20.85	23.9869287
08.04.2015 15:12:05.3	247.67	510.9	1.1485	20.87	24.2999677
08.04.2015 15:12:05.4	246.73	511.1	1.0542	20.6	23.2810039
08.04.2015 15:12:05.5	246.8	511.2	0.9668	20.65	22.2950535
08.04.2015 15:12:05.6	245.93	511	1.1178	20.9	23.9729925
08.04.2015 15:12:05.7	244.04	511.1	1.1371	20.82	24.1790663
08.04.2015 15:12:05.8	244.29	511.3	1.157	20.56	24.3897235
08.04.2015 15:12:05.9	244.24	511.3	1.1334	20.62	24.1396963
08.04.2015 15:12:06.0	242.13	511.2	0.9862	20.93	22.5176309
08.04.2015 15:12:06.1	241.66	511.3	1.0434	20.81	23.1614443
08.04.2015 15:12:06.2	241.75	511.4	1.055	20.51	23.2898358
08.04.2015 15:12:06.3	241.23	511.4	1.1566	20.63	24.3855071
08.04.2015 15:12:06.4	238.93	511.3	1.044	20.89	23.1681015
08.04.2015 15:12:06.5	239.21	511.4	1.051	20.75	23.2456425
08.04.2015 15:12:06.6	239.13	511.5	1.2055	20.52	24.8956692
08.04.2015 15:12:06.7	237.5	511.4	1.1528	20.69	24.3454149
08.04.2015 15:12:06.8	236.48	511.3	1.0819	20.87	23.5848847
08.04.2015 15:12:06.9	236.58	511.5	1.0261	20.56	22.9686273
08.04.2015 15:12:07.0	236.5	511.6	1.0685	20.59	23.4383729
08.04.2015 15:12:07.1	233.54	511.4	1.0955	20.78	23.7326584
08.04.2015 15:12:07.2	233.68	511.4	1.0747	20.84	23.5062755
08.04.2015 15:12:07.3	233.66	511.7	1.072	20.6	23.4767292
08.04.2015 15:12:07.4	232.62	511.8	1.1556	20.61	24.3749629
08.04.2015 15:12:07.5	230.89	511.6	1.1143	20.86	23.9354316
08.04.2015 15:12:07.6	231.1	511.6	1.2192	20.8	25.0367339
08.04.2015 15:12:07.7	231.14	511.8	1.0568	20.55	23.3096955
08.04.2015 15:12:07.8	228.82	511.9	1.0745	20.62	23.5040881
08.04.2015 15:12:07.9	228.53	511.8	1.0222	20.88	22.9249362
08.04.2015 15:12:08.0	228.56	511.8	1.046	20.82	23.1902825
08.04.2015 15:12:08.1	227.89	512	1.0053	20.52	22.7346377
08.04.2015 15:12:08.2	225.35	511.9	0.971	20.62	22.3434284
08.04.2015 15:12:08.3	225.64	511.8	1.0386	20.93	23.1081063
08.04.2015 15:12:08.4	225.64	511.8	1.0872	20.8	23.6425828

08.04.2015 15:12:08.5	223.88	511.9	1.184	20.52	24.6726642
08.04.2015 15:12:08.6	223.01	511.8	1.1969	20.67	24.8067078
08.04.2015 15:12:08.7	223.05	511.8	1.0776	20.89	23.5379691
08.04.2015 15:12:08.8	222.14	511.9	1.0628	20.7	23.3757724
08.04.2015 15:12:08.9	220.3	512	1.1369	20.53	24.1769399
08.04.2015 15:12:09.0	220.5	511.8	1.1271	20.75	24.0725126
08.04.2015 15:12:09.1	220.5	511.7	1.0131	20.86	22.822665
08.04.2015 15:12:09.2	218.39	511.9	1.0317	20.6	23.0312183
08.04.2015 15:12:09.3	217.93	512	0.9229	20.56	21.7829914
08.04.2015 15:12:09.4	217.98	511.7	0.9034	20.81	21.5516358
08.04.2015 15:12:09.5	216.58	511.6	1.042	20.79	23.1458992
08.04.2015 15:12:09.6	215.25	511.8	1.0308	20.53	23.0211705
08.04.2015 15:12:09.7	215.41	511.9	1.1667	20.59	24.4917488
08.04.2015 15:12:09.8	214.78	511.6	1.1381	20.86	24.1896959
08.04.2015 15:12:09.9	212.59	511.6	1.1008	20.8	23.7899981
08.04.2015 15:12:10.0	212.87	511.8	1.0574	20.51	23.3163116
08.04.2015 15:12:10.1	212.85	511.7	0.989	20.6	22.5495741
08.04.2015 15:12:10.2	211.01	511.6	1.035	20.87	23.0680228
08.04.2015 15:12:10.3	210.23	511.7	1.0983	20.76	23.7629683
08.04.2015 15:12:10.4	210.29	511.8	1.0796	20.53	23.5598019
08.04.2015 15:12:10.5	209.21	511.8	1.0327	20.63	23.0423774
08.04.2015 15:12:10.6	207.53	511.7	1.0689	20.92	23.4427597
08.04.2015 15:12:10.7	207.78	511.9	1.0495	20.75	23.2290484
08.04.2015 15:12:10.8	207.73	512.1	1.0447	20.51	23.1758672
08.04.2015 15:12:10.9	205.51	512	1.1125	20.69	23.9160915
08.04.2015 15:12:11.0	205.15	512	1.1958	20.88	24.795306
08.04.2015 15:12:11.1	205.15	512.1	1.1922	20.67	24.7579542
08.04.2015 15:12:11.2	204.62	512.2	1.1092	20.55	23.8805941
08.04.2015 15:12:11.3	202.38	512	1.111	20.8	23.8999629
08.04.2015 15:12:11.4	202.65	511.9	1.0879	20.86	23.6501928
08.04.2015 15:12:11.5	202.61	512.2	1.0454	20.6	23.1836304
08.04.2015 15:12:11.6	200.92	512.2	1.0051	20.61	22.7323762
08.04.2015 15:12:11.7	200	512	1.0339	20.86	23.0557612
08.04.2015 15:12:11.8	200.07	512.1	1.0185	20.81	22.8834085
08.04.2015 15:12:11.9	199.88	512.3	1.0893	20.55	23.6654054
08.04.2015 15:12:12.0	196.93	512.4	1.1666	20.59	24.4906991
08.04.2015 15:12:12.1	197.17	512.3	1.064	20.9	23.3889654
08.04.2015 15:12:12.2	197.12	512.3	1.0988	20.84	23.7683767
08.04.2015 15:12:12.3	195.99	512.4	1.2004	20.52	24.8429514
08.04.2015 15:12:12.4	194.41	512.4	1.0902	20.61	23.6751798
08.04.2015 15:12:12.5	194.58	512.2	1.0617	20.91	23.3636723
08.04.2015 15:12:12.6	194.59	512.2	0.9679	20.76	22.3077332
08.04.2015 15:12:12.7	192.22	512.2	1.0572	20.53	23.3141064
08.04.2015 15:12:12.8	191.99	512	1.0489	20.66	23.2224074
08.04.2015 15:12:12.9	192.03	511.8	1.0879	20.91	23.6501928
08.04.2015 15:12:13.0	191.33	511.9	1.0859	20.7	23.6284435
08.04.2015 15:12:13.1	188.83	512	1.0912	20.51	23.6860355
08.04.2015 15:12:13.2	189.14	511.7	1.1427	20.71	24.2385319
08.04.2015 15:12:13.3	189.09	511.6	1.1459	20.84	24.2724467
08.04.2015 15:12:13.4	187.23	511.8	1.1639	20.66	24.4623419
08.04.2015 15:12:13.5	186.47	511.8	1.1028	20.56	23.8115999
08.04.2015 15:12:13.6	186.56	511.6	1.0608	20.82	23.3537675
08.04.2015 15:12:13.7	185.49	511.5	1.1277	20.86	24.0789191
08.04.2015 15:12:13.8	183.81	511.8	1.055	20.6	23.2898358
08.04.2015 15:12:13.9	184.04	511.8	1.0643	20.62	23.3922625
08.04.2015 15:12:14.0	183.98	511.7	1.018	20.85	22.8777909
08.04.2015 15:12:14.1	181.72	511.7	1.0547	20.81	23.2865242
08.04.2015 15:12:14.2	181.44	511.9	1.1046	20.56	23.8310247
08.04.2015 15:12:14.3	181.39	512	1.1322	20.62	24.1269138
08.04.2015 15:12:14.4	179.92	511.9	1.113	20.94	23.9214653
08.04.2015 15:12:14.5	178.81	511.9	1.1706	20.81	24.5326497
08.04.2015 15:12:14.6	178.88	512.1	1.1017	20.49	23.7997213
08.04.2015 15:12:14.7	178.12	512.1	1.0845	20.63	23.6132071
08.04.2015 15:12:14.8	176.07	512	1.0796	20.9	23.5598019
08.04.2015 15:12:14.9	176.34	512.2	1.1671	20.77	24.4959469
08.04.2015 15:12:15.0	176.29	512.3	1.0445	20.53	23.1736487
08.04.2015 15:12:15.1	174.41	512.2	0.9984	20.69	22.6564824
08.04.2015 15:12:15.2	173.68	512.2	1.0412	20.89	23.1370123
08.04.2015 15:12:15.3	173.79	512.3	1.0839	20.72	23.6066741
08.04.2015 15:12:15.4	173.45	512.5	1.1047	20.6	23.8321034
08.04.2015 15:12:15.5	171.01	512.3	1.0027	20.84	22.7052195

08.04.2015 15:12:15.6	171.22	512.2	0.9912	20.89	22.5746405
08.04.2015 15:12:15.7	171.19	512.4	1.0218	20.66	22.9204503
08.04.2015 15:12:15.8	169.78	512.4	1.0535	20.65	23.2732732
08.04.2015 15:12:15.9	168.53	512.1	1.0962	20.91	23.7402395
08.04.2015 15:12:16.0	168.66	512.1	1.1601	20.9	24.4223759
08.04.2015 15:12:16.1	168.64	512.3	1.1786	20.64	24.6163362
08.04.2015 15:12:16.2	165.71	512.3	1.2177	20.7	25.0213277
08.04.2015 15:12:16.3	165.73	512	1.0526	20.97	23.2633299
08.04.2015 15:12:16.4	165.68	512	1.1279	20.93	24.0810542
08.04.2015 15:12:16.5	164.89	512.1	1.2022	20.63	24.8615705
08.04.2015 15:12:16.6	162.93	512	1.0713	20.71	23.4690629
08.04.2015 15:12:16.7	163.19	511.8	1.0135	20.98	22.82717
08.04.2015 15:12:16.8	163.2	511.8	1.0904	20.9	23.6773513
08.04.2015 15:12:16.9	161.13	511.9	1.0959	20.63	23.7369908
08.04.2015 15:12:17.0	160.56	511.8	0.9992	20.79	22.6655577
08.04.2015 15:12:17.1	160.58	511.8	1.0389	21.01	23.1114434
08.04.2015 15:12:17.2	160.14	511.9	1.0156	20.86	22.8508071
08.04.2015 15:12:17.3	157.45	512	1.0343	20.66	23.0602207
08.04.2015 15:12:17.4	157.71	511.8	0.9701	20.87	22.3330711
08.04.2015 15:12:17.5	157.7	511.8	0.9935	20.98	22.6008167
08.04.2015 15:12:17.6	156.18	512	1.1252	20.77	24.052214
08.04.2015 15:12:17.7	155.02	512.1	1.105	20.71	23.8353392
08.04.2015 15:12:17.8	155.14	511.9	1.1025	20.96	23.8083608
08.04.2015 15:12:17.9	155.07	511.8	1.1389	21	24.1981962
08.04.2015 15:12:18.0	152.45	512.1	1.0116	20.73	22.805763
08.04.2015 15:12:18.1	152.6	512.1	0.9887	20.77	22.5461537
08.04.2015 15:12:18.2	152.56	511.9	1.0507	21.01	23.2423247
08.04.2015 15:12:18.3	151.47	511.8	1.0568	21.01	23.3096955
08.04.2015 15:12:18.4	149.42	512	0.9901	20.72	22.5621108
08.04.2015 15:12:18.5	149.65	512	1.052	20.8	23.2566987
08.04.2015 15:12:18.6	149.64	511.9	1.1083	21.1	23.8709039
08.04.2015 15:12:18.7	147.43	511.9	1.1511	21.03	24.3274576
08.04.2015 15:12:18.8	147.07	512	1.0277	20.68	22.9865279
08.04.2015 15:12:18.9	147.08	512	1.0773	20.82	23.5346924
08.04.2015 15:12:19.0	146.55	511.9	1.0297	21.09	23.0088839
08.04.2015 15:12:19.1	144.34	511.9	1.1485	20.95	24.2999677
08.04.2015 15:12:19.2	144.6	512.1	1.105	20.7	23.8353392
08.04.2015 15:12:19.3	144.48	512	1.1085	20.87	23.8730576
08.04.2015 15:12:19.4	141.52	511.9	1.0861	21.09	23.6306193
08.04.2015 15:12:19.5	141.65	512	1.0914	20.9	23.688206
08.04.2015 15:12:19.6	141.59	512.1	1.0792	20.76	23.555437
08.04.2015 15:12:19.7	141.5	511.9	1.0018	20.95	22.6950274
08.04.2015 15:12:19.8	139.31	511.8	0.9305	21.06	21.872498
08.04.2015 15:12:19.9	139.46	512	1.0325	20.83	23.040146
08.04.2015 15:12:20.0	139.41	512.1	1.0258	20.81	22.9652694
08.04.2015 15:12:20.1	137.02	511.9	0.9522	21.04	22.1260702
08.04.2015 15:12:20.2	136.45	511.8	1.057	21.03	23.311901
08.04.2015 15:12:20.3	136.49	512	0.9968	20.77	22.6383209
08.04.2015 15:12:20.4	135.17	512.1	1.0156	20.86	22.8508071
08.04.2015 15:12:20.5	133.81	511.9	0.942	21.01	22.0072435
08.04.2015 15:12:20.6	133.95	511.9	1.0664	21.04	23.4153291
08.04.2015 15:12:20.7	133.98	512.1	1.0566	20.76	23.3074897
08.04.2015 15:12:20.8	131.4	512.1	1.0992	20.83	23.7727026
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08.04.2015 15:12:21.0	131.4	511.9	1.0231	21.03	22.9350261
08.04.2015 15:12:21.1	130.6	512	1.0467	20.76	23.1980409
08.04.2015 15:12:21.2	128.59	511.9	1.1064	20.9	23.8504337
08.04.2015 15:12:21.3	128.89	511.8	1.0894	21.16	23.6664917
08.04.2015 15:12:21.4	128.87	511.9	1.101	20.98	23.7921592
08.04.2015 15:12:21.5	126.81	511.9	1.0603	20.77	23.3482631
08.04.2015 15:12:21.6	126.23	511.8	1.0525	20.94	23.2622249
08.04.2015 15:12:21.7	126.25	511.7	1.0251	21.11	22.9574324
08.04.2015 15:12:21.8	125.84	511.8	0.9896	20.88	22.5564131
08.04.2015 15:12:21.9	123.16	511.9	1.0308	20.79	23.0211705
08.04.2015 15:12:22.0	123.38	511.7	0.9565	21.02	22.175973
08.04.2015 15:12:22.1	123.35	511.6	0.9716	21.08	22.3503305
08.04.2015 15:12:22.2	121.91	511.9	1.0761	20.81	23.5215812
08.04.2015 15:12:22.3	120.66	511.9	1.1012	20.84	23.79432
08.04.2015 15:12:22.4	120.78	511.7	1.0973	21.09	23.7521478
08.04.2015 15:12:22.5	120.8	511.7	1.0431	21.03	23.1581131
08.04.2015 15:12:22.6	118.13	511.8	1.0513	20.75	23.24896

08.04.2015 15:12:22.7	118.27	511.8	1.078	20.84	23.5423373
08.04.2015 15:12:22.8	118.25	511.6	1.0737	21.13	23.4953367
08.04.2015 15:12:22.9	117.16	511.6	1.0095	21.04	22.7820793
08.04.2015 15:12:23.0	115.11	511.7	1.0672	20.73	23.4241104
08.04.2015 15:12:23.1	115.31	511.6	1.0283	20.85	22.993237
08.04.2015 15:12:23.2	115.28	511.5	1.0645	21.01	23.3944603
08.04.2015 15:12:23.3	113.18	511.6	1.1243	20.99	24.0425929
08.04.2015 15:12:23.4	112.75	511.7	1.0509	20.76	23.2445366
08.04.2015 15:12:23.5	112.74	511.6	1.0046	20.91	22.7267212
08.04.2015 15:12:23.6	111.38	511.5	1.0263	21.12	22.9708656
08.04.2015 15:12:23.7	110.11	511.6	1.0277	20.93	22.9865279
08.04.2015 15:12:23.8	110.17	511.7	0.9193	20.81	21.7404649
08.04.2015 15:12:23.9	110.19	511.5	1.0038	21.01	22.7176703
08.04.2015 15:12:24.0	107.64	511.4	0.9707	21.08	22.3399765
08.04.2015 15:12:24.1	107.67	511.6	1.0174	20.85	22.8710479
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08.04.2015 15:12:24.3	105.87	511.3	0.9704	21.05	22.3365241
08.04.2015 15:12:24.4	105.04	511.2	0.9368	21.05	21.9464176
08.04.2015 15:12:24.5	105.08	511.4	0.9287	20.79	21.8513322
08.04.2015 15:12:24.6	104.86	511.5	0.944	20.85	22.0305934
08.04.2015 15:12:24.7	102.34	511.3	1.0116	21.09	22.805763
08.04.2015 15:12:24.8	102.57	511.2	0.9922	21.03	22.5860252
08.04.2015 15:12:24.9	102.56	511.4	1.0152	20.76	22.8463066
08.04.2015 15:12:25.0	100.28	511.3	1.0249	20.83	22.9551927
08.04.2015 15:12:25.1	99.97	511.2	0.9126	21.11	21.6610961
08.04.2015 15:12:25.2	99.99	511.2	1.0656	21.04	23.4065445
08.04.2015 15:12:25.3	98.48	511.3	0.9941	20.74	22.6076403
08.04.2015 15:12:25.4	97.28	511.2	0.9951	20.87	22.6190083
08.04.2015 15:12:25.5	97.41	511.1	0.9392	21.12	21.974512
08.04.2015 15:12:25.6	97.43	511.2	0.9415	20.96	22.0014022
08.04.2015 15:12:25.7	94.79	511.3	0.9849	20.75	22.5027847
08.04.2015 15:12:25.8	94.9	511.2	0.9775	20.93	22.4180885
08.04.2015 15:12:25.9	94.85	511.1	0.9987	21.08	22.6598861
08.04.2015 15:12:26.0	92.98	511.3	1.0378	20.87	23.0992049
08.04.2015 15:12:26.1	92.24	511.5	0.9809	20.8	22.4570427
08.04.2015 15:12:26.2	92.28	511.3	0.9686	21.02	22.3157984
08.04.2015 15:12:26.3	92.04	511.2	1.0396	21.07	23.1192282
08.04.2015 15:12:26.4	89.59	511.5	0.9764	20.83	22.4054712
08.04.2015 15:12:26.5	89.79	511.5	0.9518	20.86	22.1214223
08.04.2015 15:12:26.6	89.75	511.3	1.0359	21.11	23.0780502
08.04.2015 15:12:26.7	88.4	511.2	0.9534	21.1	22.1400079
08.04.2015 15:12:26.8	87.04	511.4	0.9908	20.82	22.5700851
08.04.2015 15:12:26.9	87.19	511.4	0.9944	20.87	22.6110513
08.04.2015 15:12:27.0	87.18	511.3	0.9455	21.14	22.0480895
08.04.2015 15:12:27.1	84.67	511.3	1.0065	21.07	22.7482026
08.04.2015 15:12:27.2	84.7	511.4	1.056	20.79	23.300871
08.04.2015 15:12:27.3	84.64	511.4	0.9745	20.89	22.383661
08.04.2015 15:12:27.4	83.68	511.3	1.0049	21.24	22.7301143
08.04.2015 15:12:27.5	81.5	511.4	1.016	21.12	22.8553066
08.04.2015 15:12:27.6	81.73	511.5	0.9556	20.84	22.1655375
08.04.2015 15:12:27.7	81.67	511.4	0.9281	20.98	21.8442724
08.04.2015 15:12:27.8	80	511.2	0.9499	21.19	22.0993317
08.04.2015 15:12:27.9	79.51	511.3	1.0023	21.01	22.7006902
08.04.2015 15:12:28.0	79.52	511.4	0.972	20.86	22.3549308
08.04.2015 15:12:28.1	78.1	511.1	0.9353	21.06	21.9288403
08.04.2015 15:12:28.2	76.44	511	0.9553	21.17	22.1620579
08.04.2015 15:12:28.3	76.61	511.2	0.9501	20.92	22.1016581
08.04.2015 15:12:28.4	76.59	511.2	0.963	20.88	22.2511951
08.04.2015 15:12:28.5	74.15	511	0.9286	21.1	21.8501557
08.04.2015 15:12:28.6	74.06	511	0.9229	21.09	21.7829914
08.04.2015 15:12:28.7	74.09	511.2	0.9444	20.84	22.0352604
08.04.2015 15:12:28.8	72.35	511.3	1.04	20.91	23.1236755
08.04.2015 15:12:28.9	71.44	511.1	1.0197	21.18	22.8968852
08.04.2015 15:12:29.0	71.49	511.1	0.9668	21.11	22.2950535
08.04.2015 15:12:29.1	70.58	511.3	0.9767	20.83	22.408913
08.04.2015 15:12:29.2	68.72	511.3	0.9206	20.91	21.7558313
08.04.2015 15:12:29.3	68.97	511.1	0.9403	21.19	21.9873766
08.04.2015 15:12:29.4	68.95	511.1	0.9435	21.1	22.0247582
08.04.2015 15:12:29.5	66.84	511.3	0.9932	20.83	22.5974041
08.04.2015 15:12:29.6	66.34	511.2	0.951	20.95	22.1121237
08.04.2015 15:12:29.7	66.34	511.1	0.9843	21.22	22.4959294

08.04.2015 15:12:29.8	65.95	511.1	0.9704	21.07	22.3365241
08.04.2015 15:12:29.9	63.62	511.2	0.9306	20.84	21.8736733
08.04.2015 15:12:30.0	63.83	511	1.0053	21	22.7346377
08.04.2015 15:12:30.1	63.85	510.9	1.0064	21.17	22.7470725
08.04.2015 15:12:30.2	62.24	511	0.9245	20.96	21.8018654
08.04.2015 15:12:30.3	61.16	511.1	0.9523	20.86	22.127232
08.04.2015 15:12:30.4	61.29	510.8	0.9316	21.05	21.8854226
08.04.2015 15:12:30.5	61.17	510.8	0.9528	21.09	22.1330401
08.04.2015 15:12:30.6	58.16	510.9	0.9519	20.9	22.1225844
08.04.2015 15:12:30.7	58.37	511	0.9116	20.87	21.6492251
08.04.2015 15:12:30.8	58.34	510.8	0.9215	21.13	21.7664632
08.04.2015 15:12:30.9	57.29	510.7	0.8539	21.1	20.9528789
08.04.2015 15:12:31.0	55.65	510.9	0.9514	20.83	22.1167735
08.04.2015 15:12:31.1	55.81	510.9	0.8981	20.86	21.4883241
08.04.2015 15:12:31.2	55.76	510.8	0.9148	21.14	21.6871895
08.04.2015 15:12:31.3	53.55	510.8	0.9256	21.05	21.8148319
08.04.2015 15:12:31.4	53.23	510.9	0.8954	20.78	21.4559991
08.04.2015 15:12:31.5	53.22	510.9	0.9934	20.86	22.5996792
08.04.2015 15:12:31.6	52.62	510.8	1.0032	21.17	22.7108798
08.04.2015 15:12:31.7	50.11	510.9	0.9732	21.03	22.3687259
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08.04.2015 15:12:32.1	47.68	511.1	0.9913	20.93	22.5757793
08.04.2015 15:12:32.2	47.75	511.2	0.9367	20.77	21.9452462
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08.04.2015 15:12:32.4	45.08	511	1.0366	21.05	23.0858463
08.04.2015 15:12:32.5	45.27	511.3	0.9058	20.83	21.5802442
08.04.2015 15:12:32.6	45.18	511.3	0.9282	20.78	21.8454492
08.04.2015 15:12:32.7	43.83	511.1	0.9583	21	22.1968293
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08.04.2015 15:12:33.0	42.28	511.4	0.9865	20.8	22.5210556
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08.04.2015 15:12:33.2	39.7	511.3	0.9837	21.01	22.4890719
08.04.2015 15:12:33.3	39.73	511.6	0.8956	20.73	21.4583952
08.04.2015 15:12:33.4	39.05	511.6	0.9122	20.79	21.6563485
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08.04.2015 15:12:37.1	10.48	512.5	0.8585	20.79	21.0092402
08.04.2015 15:12:37.2	10.51	512.5	0.9206	20.83	21.7558313
08.04.2015 15:12:37.3	9.39	512.3	0.922	21.13	21.7723676
08.04.2015 15:12:37.4	7.75	512.2	0.8954	21.05	21.4559991
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08.04.2015 15:12:37.9	5.36	512.3	0.8641	20.76	21.0776505
08.04.2015 15:12:38.0	5.38	512.2	0.8634	20.89	21.0691114
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08.04.2015 15:12:52.8	-105.44	513.3	0.9676	20.43	22.3042758
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08.04.2015 15:12:53.0	-107.72	513.1	0.8357	20.94	20.7283817
08.04.2015 15:12:53.1	-107.77	513.2	0.8576	20.74	20.9982249
08.04.2015 15:12:53.2	-110	513.2	0.9285	20.61	21.8489792
08.04.2015 15:12:53.3	-110.3	513	0.8162	20.82	20.4851191
08.04.2015 15:12:53.4	-110.32	512.9	0.7768	20.9	19.9845699
08.04.2015 15:12:53.5	-110.93	513.1	0.8145	20.69	20.4637745
08.04.2015 15:12:53.6	-113.07	513.2	0.8253	20.67	20.5989992
08.04.2015 15:12:53.7	-112.83	512.9	0.9279	20.87	21.8419186
08.04.2015 15:12:53.8	-112.89	512.9	0.8702	20.87	21.1519171
08.04.2015 15:12:53.9	-115.49	513.2	0.8666	20.62	21.1081193
08.04.2015 15:12:54.0	-115.37	513.2	0.8884	20.68	21.3719659
08.04.2015 15:12:54.1	-115.42	513.1	0.9257	20.91	21.8160103
08.04.2015 15:12:54.2	-115.59	513	0.9219	20.86	21.7711868
08.04.2015 15:12:54.3	-118.12	513.2	0.8723	20.58	21.1774241
08.04.2015 15:12:54.4	-117.95	513.2	0.9214	20.66	21.7652821
08.04.2015 15:12:54.5	-117.97	513.1	0.922	20.92	21.7723676
08.04.2015 15:12:54.6	-119.17	513.1	0.9599	20.84	22.2153517
08.04.2015 15:12:54.7	-120.67	513.3	0.9297	20.57	21.8630935
08.04.2015 15:12:54.8	-120.51	513.2	0.9458	20.68	22.0515871
08.04.2015 15:12:54.9	-120.55	513.2	0.8474	20.95	20.8729786
08.04.2015 15:12:55.0	-123.27	513.3	0.8961	20.81	21.4643843
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08.04.2015 15:12:55.2	-123.47	513.3	0.8359	20.78	20.730862
08.04.2015 15:12:55.3	-124.22	513.3	0.8778	20.95	21.2440828
08.04.2015 15:12:55.4	-126.59	513.5	0.8568	20.73	20.9884287
08.04.2015 15:12:55.5	-126.35	513.6	0.9204	20.6	21.7534679
08.04.2015 15:12:55.6	-126.37	513.5	0.8846	20.87	21.3262092
08.04.2015 15:12:55.7	-127.28	513.5	0.916	20.92	21.7014091
08.04.2015 15:12:55.8	-129.17	513.8	0.9322	20.68	21.8924692
08.04.2015 15:12:55.9	-128.92	513.9	0.8987	20.68	21.4955008
08.04.2015 15:12:56.0	-128.92	513.7	0.9209	20.93	21.7593758
08.04.2015 15:12:56.1	-131.06	513.7	0.8966	20.9	21.4703718
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08.04.2015 15:12:56.3	-131.44	514	0.838	20.69	20.7568863
08.04.2015 15:12:56.4	-131.5	513.8	0.9574	20.96	22.1864036
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08.04.2015 15:12:56.7	-134.42	513.8	0.9649	20.68	22.2731351
08.04.2015 15:12:56.8	-136.21	513.7	0.851	20.96	20.9172688
08.04.2015 15:12:56.9	-137.39	513.8	0.8127	20.83	20.4411501
08.04.2015 15:12:57.0	-137.32	513.9	0.9153	20.58	21.6931155
08.04.2015 15:12:57.1	-137.32	513.8	1.0439	20.73	23.1669919
08.04.2015 15:12:57.2	-139.18	513.8	1.0436	20.97	23.1636627
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08.04.2015 15:12:57.4	-139.88	514	0.9323	20.61	21.8936434
08.04.2015 15:12:57.5	-140.13	513.9	0.8902	20.83	21.3936059
08.04.2015 15:12:57.6	-142.97	513.8	0.8484	20.9	20.8852908
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08.04.2015 15:12:57.9	-143.22	513.9	0.9412	20.88	21.9978966
08.04.2015 15:12:58.0	-145.58	513.8	0.9237	20.7	21.7924305
08.04.2015 15:12:58.1	-145.35	514.1	0.8793	20.59	21.2622262

08.04.2015 15:12:58.2	-145.35	514.1	0.8398	20.62	20.7791669
08.04.2015 15:12:58.3	-148.18	513.9	0.9108	20.89	21.6397235
08.04.2015 15:12:58.4	-148.25	514	0.9864	20.81	22.5199141
08.04.2015 15:12:58.5	-148.28	514.2	0.9124	20.52	21.6587224
08.04.2015 15:12:58.6	-149.01	514.2	0.8833	20.61	21.310533
08.04.2015 15:12:58.7	-151.07	514.1	0.84	20.9	20.7816411
08.04.2015 15:12:58.8	-150.85	514.2	1.0113	20.79	22.8023812
08.04.2015 15:12:58.9	-150.82	514.3	0.8967	20.49	21.4715691
08.04.2015 15:12:59.0	-151.83	514.2	0.8773	20.6	21.2380316
08.04.2015 15:12:59.1	-153.57	514.1	0.7388	20.86	19.4896321
08.04.2015 15:12:59.2	-153.35	514.1	0.8649	20.72	21.0874053
08.04.2015 15:12:59.3	-153.77	514.1	0.8409	20.49	20.7927711
08.04.2015 15:12:59.4	-156.5	513.9	0.8847	20.68	21.3274146
08.04.2015 15:12:59.5	-156.28	513.7	0.8223	20.84	20.561526
08.04.2015 15:12:59.6	-156.32	513.8	0.873	20.65	21.1859196
08.04.2015 15:12:59.7	-156.85	513.9	0.9181	20.53	21.7262709
08.04.2015 15:12:59.8	-159.01	513.7	0.8838	20.76	21.3165637
08.04.2015 15:12:59.9	-158.85	513.6	0.8791	20.79	21.259808
08.04.2015 15:13:00.0	-158.86	513.8	0.9226	20.54	21.7794507
08.04.2015 15:13:00.1	-160.52	513.9	0.8691	20.57	21.1385441
08.04.2015 15:13:00.2	-161.49	513.7	0.8856	20.84	21.3382599
08.04.2015 15:13:00.3	-161.47	513.7	0.955	20.81	22.1585778
08.04.2015 15:13:00.4	-161.39	513.8	0.9789	20.53	22.4341367
08.04.2015 15:13:00.5	-163.63	513.8	0.9038	20.6	21.5564065
08.04.2015 15:13:00.6	-164.37	513.7	0.9093	20.87	21.6218969
08.04.2015 15:13:00.7	-164.31	513.7	0.8825	20.8	21.3008804
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08.04.2015 15:13:01.0	-167.28	513.6	0.9538	20.88	22.1446518
08.04.2015 15:13:01.1	-167.26	513.7	0.9838	20.77	22.490215
08.04.2015 15:13:01.2	-168.63	513.8	0.9741	20.46	22.3790666
08.04.2015 15:13:01.3	-169.89	513.7	0.8723	20.62	21.1774241
08.04.2015 15:13:01.4	-169.8	513.6	0.8824	20.85	21.2996735
08.04.2015 15:13:01.5	-169.79	513.7	0.9056	20.67	21.5778616
08.04.2015 15:13:01.6	-172.75	513.8	0.9966	20.47	22.6360497
08.04.2015 15:13:01.7	-172.72	513.7	0.7878	20.69	20.1255698
08.04.2015 15:13:01.8	-172.77	513.6	0.7724	20.82	19.9278906
08.04.2015 15:13:01.9	-172.83	513.8	0.8456	20.59	20.8507982
08.04.2015 15:13:02.0	-175.42	513.9	0.9332	20.52	21.9042084
08.04.2015 15:13:02.1	-175.24	513.7	1.0278	20.75	22.9876462
08.04.2015 15:13:02.2	-175.27	513.6	1.0575	20.77	23.3174141
08.04.2015 15:13:02.3	-177.66	513.9	0.9635	20.5	22.2569708
08.04.2015 15:13:02.4	-178.22	514	1.0021	20.57	22.6984253
08.04.2015 15:13:02.5	-178.21	513.8	0.9854	20.84	22.508496
08.04.2015 15:13:02.6	-178.66	513.9	1.0186	20.8	22.8845319
08.04.2015 15:13:02.7	-180.91	514.2	0.9844	20.48	22.4970721
08.04.2015 15:13:02.8	-180.7	514.2	0.9559	20.58	22.1690166
08.04.2015 15:13:02.9	-180.78	514.2	0.9361	20.86	21.9382166
08.04.2015 15:13:03.0	-181.3	514.3	0.9605	20.77	22.222936
08.04.2015 15:13:03.1	-183.54	514.5	0.9272	20.48	21.8336784
08.04.2015 15:13:03.2	-183.34	514.5	0.86	20.63	21.0275862
08.04.2015 15:13:03.3	-183.38	514.5	0.8853	20.9	21.3346454
08.04.2015 15:13:03.4	-186.33	514.7	0.972	20.72	22.3549308
08.04.2015 15:13:03.5	-186.2	514.8	0.9087	20.5	21.6147622
08.04.2015 15:13:03.6	-186.21	514.7	1.0371	20.69	23.0914133
08.04.2015 15:13:03.7	-186.41	514.7	0.9904	20.84	22.5655287
08.04.2015 15:13:03.8	-188.94	514.9	0.9004	20.64	21.5158219
08.04.2015 15:13:03.9	-188.75	515	0.9596	20.57	22.2118799
08.04.2015 15:13:04.0	-188.8	514.7	0.9157	20.79	21.6978551
08.04.2015 15:13:04.1	-190.09	514.7	0.9321	20.83	21.8912949
08.04.2015 15:13:04.2	-191.46	515	0.9068	20.45	21.5921532
08.04.2015 15:13:04.3	-191.29	515	0.8521	20.6	20.9307832
08.04.2015 15:13:04.4	-191.32	514.8	0.8295	20.84	20.6513474
08.04.2015 15:13:04.5	-193.1	514.8	0.8199	20.84	20.5314982
08.04.2015 15:13:04.6	-194.34	515.1	0.9444	20.55	22.0352604
08.04.2015 15:13:04.7	-194.26	515.1	0.9649	20.63	22.2731351
08.04.2015 15:13:04.8	-194.28	514.9	0.9315	20.91	21.884248
08.04.2015 15:13:04.9	-197.34	515	0.8944	20.85	21.4440145
08.04.2015 15:13:05.0	-197.15	515.1	0.8041	20.53	20.3327082
08.04.2015 15:13:05.1	-197.17	515.1	0.9023	20.65	21.538511
08.04.2015 15:13:05.2	-199.13	515	0.8603	20.95	21.0312535

08.04.2015 15:13:05.3	-199.78	515.1	0.9158	20.83	21.6990398
08.04.2015 15:13:05.4	-199.72	515.2	0.8672	20.55	21.1154252
08.04.2015 15:13:05.5	-199.76	515.1	0.8996	20.73	21.5062614
08.04.2015 15:13:05.6	-201.95	515	0.9149	20.95	21.6883749
08.04.2015 15:13:05.7	-202.28	515.2	0.9263	20.76	21.8230792
08.04.2015 15:13:05.8	-202.28	515.3	0.9079	20.61	21.6052455
08.04.2015 15:13:05.9	-203.88	515.2	0.8935	20.83	21.4332227
08.04.2015 15:13:06.0	-205.32	515.2	0.9385	20.92	21.9663215
08.04.2015 15:13:06.1	-205.19	515.5	0.9425	20.7	22.0130833
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08.04.2015 15:13:06.3	-207.77	515.4	0.875	20.93	21.2101736
08.04.2015 15:13:06.4	-207.74	515.4	0.9437	20.92	22.0270925
08.04.2015 15:13:06.5	-207.79	515.7	0.9572	20.69	22.1840861
08.04.2015 15:13:06.6	-208.58	515.8	0.8631	20.75	21.0654507
08.04.2015 15:13:06.7	-210.53	515.7	0.8622	21.02	21.0544648
08.04.2015 15:13:06.8	-210.33	515.7	0.8632	20.98	21.066671
08.04.2015 15:13:06.9	-210.55	515.9	0.8497	20.67	20.9012859
08.04.2015 15:13:07.0	-213.03	516	0.9627	20.77	22.2477289
08.04.2015 15:13:07.1	-212.9	515.8	0.7862	21.09	20.1051222
08.04.2015 15:13:07.2	-212.86	515.9	0.8021	20.94	20.3074062
08.04.2015 15:13:07.3	-213.28	516	0.8989	20.66	21.4978925
08.04.2015 15:13:07.4	-215.6	515.9	0.8947	20.79	21.4476106
08.04.2015 15:13:07.5	-215.4	515.8	0.8529	21.07	20.9406064
08.04.2015 15:13:07.6	-215.43	515.9	0.886	20.9	21.3430783
08.04.2015 15:13:07.7	-216.73	515.9	0.9744	20.69	22.3825125
08.04.2015 15:13:07.8	-217.6	515.8	0.9457	20.88	22.0504213
08.04.2015 15:13:07.9	-217.59	515.7	0.9671	21.02	22.2985123
08.04.2015 15:13:08.0	-217.56	515.9	0.9071	20.8	21.5957246
08.04.2015 15:13:08.1	-217.5	516	0.8978	20.73	21.4847348
08.04.2015 15:13:08.2	-217.54	515.8	0.889	20.98	21.3791817
08.04.2015 15:13:08.3	-217.55	515.7	0.8752	21.05	21.2125975
08.04.2015 15:13:08.4	-217.55	516	0.9664	20.7	22.2904408
08.04.2015 15:13:08.5	-217.54	516.1	0.9341	20.8	21.9147683
08.04.2015 15:13:08.6	-217.58	515.9	0.9347	20.98	21.9218054
08.04.2015 15:13:08.7	-217.55	515.9	0.9003	21	21.5146271
08.04.2015 15:13:08.8	-217.54	516.1	0.8408	20.71	20.7915348
08.04.2015 15:13:08.9	-217.54	516.2	0.8348	20.81	20.7172171
08.04.2015 15:13:09.0	-217.55	516	0.8297	21.07	20.6538369
08.04.2015 15:13:09.1	-217.56	516.1	0.9328	20.99	21.8995134
08.04.2015 15:13:09.2	-217.55	516.3	0.9168	20.69	21.7108836
08.04.2015 15:13:09.3	-217.56	516.3	0.9538	20.83	22.1446518
08.04.2015 15:13:09.4	-217.6	516.2	0.9591	21.11	22.2060924
08.04.2015 15:13:09.5	-217.53	516.3	0.902	20.97	21.5349301
08.04.2015 15:13:09.6	-217.5	516.5	0.9158	20.71	21.6990398
08.04.2015 15:13:09.7	-217.56	516.4	0.9058	20.89	21.5802442
08.04.2015 15:13:09.8	-217.56	516.3	1.0146	21.08	22.8395544
08.04.2015 15:13:09.9	-217.54	516.5	1.0409	20.9	23.1336788
08.04.2015 15:13:10.0	-217.57	516.6	1.0595	20.76	23.3394532
08.04.2015 15:13:10.1	-217.57	516.5	1.0081	21.03	22.7662764
08.04.2015 15:13:10.2	-217.54	516.5	0.8845	21.08	21.3250037
08.04.2015 15:13:10.3	-217.57	516.8	0.7512	20.83	19.6525082
08.04.2015 15:13:10.4	-217.53	516.9	0.7863	20.83	20.1064008
08.04.2015 15:13:10.5	-217.53	516.6	0.8049	21.09	20.3428202
08.04.2015 15:13:10.6	-217.59	516.5	0.8158	21.06	20.4800988
08.04.2015 15:13:10.7	-217.56	516.7	0.8669	20.81	21.1117726
08.04.2015 15:13:10.8	-217.55	516.7	0.875	20.87	21.2101736
08.04.2015 15:13:10.9	-217.57	516.5	0.9883	21.15	22.5415925
08.04.2015 15:13:11.0	-217.56	516.5	0.9515	21.08	22.1179358
08.04.2015 15:13:11.1	-217.51	516.7	1.0109	20.8	22.7978712
08.04.2015 15:13:11.2	-217.54	516.6	0.867	20.9	21.1129902

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

$$y = -2.38493150E-14x^6 - 2.86609425E-12x^5 + 1.33143777E-09x^4 + 2.69479095E-07x^3 + 2.36790220E-05x^2 - 1.99887670E-03x + 2.07639987E+01$$

Please enter below Polynomial Coefficients

Order no	Coeff
6	-2.38493150E-14
5	-2.86609425E-12
4	1.33143777E-09
3	2.69479095E-07
2	2.36790220E-05
1	-1.99887670E-03
0	2.07639987E+01

Actual Area	0.274324656	[m2]
Integrated area	0.274324656	[m2]
Area Error	0	[%]
Integrated Mass flow	2.303571623	[Kg/s]

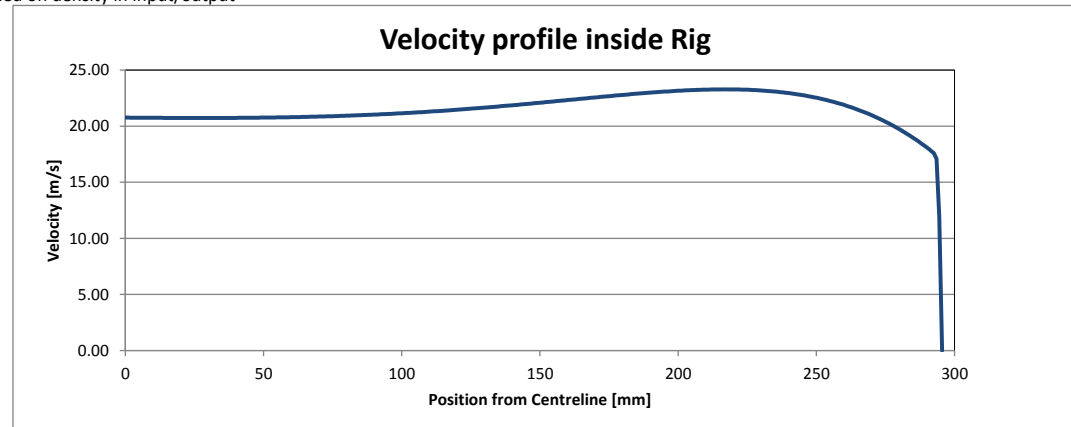
Polynomial curve (dP vs position)

Please do NOT alter any of the figures below

position [mm]	Velocity [m/s]
0	20.763999
1	20.762024
2	20.760098
3	20.758223
4	20.756400
5	20.754631
6	20.752918
7	20.751262
8	20.749666
9	20.748132
10	20.746660
11	20.745254
12	20.743914
13	20.742644
14	20.741444
15	20.740318
16	20.739266
17	20.738292
18	20.737396
19	20.736582
20	20.735851
21	20.735206
22	20.734648
23	20.734180
24	20.733804
25	20.733523
26	20.733338
27	20.733252
28	20.733268
29	20.733386
30	20.733611
31	20.733944
32	20.734387
33	20.734943

Delta Area [m2]	Delta Mass flow [Kg/s]
0	0
3.14159E-06	2.53728E-05
9.42478E-06	7.61115E-05
1.5708E-05	0.000126841
2.19911E-05	0.000177562
2.82743E-05	0.000228274
3.45575E-05	0.000278979
4.08407E-05	0.000329676
4.71239E-05	0.000380366
5.34071E-05	0.00043105
5.96903E-05	0.000481727
6.59734E-05	0.000532399
7.22566E-05	0.000583066
7.85398E-05	0.000633729
8.4823E-05	0.000684388
9.11062E-05	0.000735043
9.73894E-05	0.000785696
0.000103673	0.000836347
0.000109956	0.000886996
0.000116239	0.000937645
0.000122522	0.000988294
0.000128805	0.001038943
0.000135088	0.001089594
0.000141372	0.001140247
0.000147655	0.001190903
0.000153938	0.001241563
0.000160221	0.001292227
0.000166504	0.001342897
0.000172788	0.001393574
0.000179071	0.001444257
0.000185354	0.001494949
0.000191637	0.00154565
0.00019792	0.001596361
0.000204204	0.001647084

Based on density in input/output



34	20.735614
35	20.736402
36	20.737311
37	20.738342
38	20.739498
39	20.740781
40	20.742194
41	20.743739
42	20.745418
43	20.747235
44	20.749191
45	20.751288
46	20.753530
47	20.755919
48	20.758457
49	20.761147
50	20.763990
51	20.766991
52	20.770150
53	20.773470
54	20.776955
55	20.780605
56	20.784424
57	20.788414
58	20.792577
59	20.796915
60	20.801432
61	20.806129
62	20.811008
63	20.816072
64	20.821324
65	20.826764
66	20.832396
67	20.838221
68	20.844243
69	20.850462
70	20.856881
71	20.863502
72	20.870327
73	20.877358
74	20.884597
75	20.892045
76	20.899706
77	20.907580
78	20.915669
79	20.923975
80	20.932500
81	20.941245
82	20.950212
83	20.959402

0.000210487	0.001697818
0.00021677	0.001748566
0.000223053	0.001799328
0.000229336	0.001850105
0.000235619	0.001900899
0.000241903	0.00195171
0.000248186	0.00200254
0.000254469	0.00205339
0.000260752	0.002104262
0.000267035	0.002155156
0.000273319	0.002206073
0.000279602	0.002257016
0.000285885	0.002307984
0.000292168	0.002358981
0.000298451	0.002410006
0.000304734	0.002461062
0.000311018	0.00251215
0.000317301	0.00256327
0.000323584	0.002614426
0.000329867	0.002665617
0.00033615	0.002716847
0.000342434	0.002768115
0.000348717	0.002819424
0.000355	0.002870776
0.000361283	0.002922171
0.000367566	0.002973612
0.00037385	0.0030251
0.000380133	0.003076636
0.000386416	0.003128223
0.000392699	0.003179862
0.000398982	0.003231555
0.000405265	0.003283303
0.000411549	0.003335109
0.000417832	0.003386973
0.000424115	0.003438899
0.000430398	0.003490886
0.000436681	0.003542939
0.000442965	0.003595057
0.000449248	0.003647244
0.000455531	0.0036995
0.000461814	0.003751828
0.000468097	0.003804229
0.00047438	0.003856707
0.000480664	0.003909261
0.000486947	0.003961895
0.00049323	0.00401461
0.000499513	0.004067408
0.000505796	0.004120291
0.00051208	0.004173261
0.000518363	0.004226319

84	20.968817
85	20.978459
86	20.988328
87	20.998427
88	21.008755
89	21.019315
90	21.030107
91	21.041133
92	21.052394
93	21.063890
94	21.075622
95	21.087591
96	21.099798
97	21.112243
98	21.124927
99	21.137851
100	21.151014
101	21.164417
102	21.178060
103	21.191944
104	21.206067
105	21.220431
106	21.235035
107	21.249878
108	21.264961
109	21.280282
110	21.295842
111	21.311639
112	21.327673
113	21.343942
114	21.360446
115	21.377184
116	21.394154
117	21.411355
118	21.428785
119	21.446443
120	21.464327
121	21.482435
122	21.500765
123	21.519315
124	21.538082
125	21.557064
126	21.576259
127	21.595663
128	21.615275
129	21.635090
130	21.655106
131	21.675319
132	21.695725
133	21.716322

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0.000537212	0.004386049
0.000543496	0.004439482
0.000549779	0.004493015
0.000556062	0.004546648
0.000562345	0.004600383
0.000568628	0.004654223
0.000574911	0.004708169
0.000581195	0.004762223
0.000587478	0.004816388
0.000593761	0.004870665
0.000600044	0.004925056
0.000606327	0.004979562
0.000612611	0.005034187
0.000618894	0.005088931
0.000625177	0.005143796
0.00063146	0.005198785
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0.000644026	0.005309139
0.00065031	0.005364509
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0.000669159	0.005531406
0.000675442	0.005587307
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0.000688009	0.005699522
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0.000700575	0.005812297
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0.000725708	0.006039578
0.000731991	0.006096766
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0.000807389	0.006795029
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0.000826239	0.006973156
0.000832522	0.007032854

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136	21.779214
137	21.800532
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139	21.843670
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142	21.909562
143	21.931821
144	21.954219
145	21.976749
146	21.999406
147	22.022184
148	22.045076
149	22.068075
150	22.091175
151	22.114368
152	22.137649
153	22.161008
154	22.184438
155	22.207932
156	22.231481
157	22.255078
158	22.278712
159	22.302377
160	22.326062
161	22.349758
162	22.373457
163	22.397147
164	22.420820
165	22.444464
166	22.468070
167	22.491626
168	22.515121
169	22.538545
170	22.561885
171	22.585131
172	22.608268
173	22.631286
174	22.654172
175	22.676912
176	22.699493
177	22.721903
178	22.744126
179	22.766149
180	22.787957
181	22.809536
182	22.830871
183	22.851946

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0.00090792	0.00776177
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0.000983319	0.00851281
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0.000995885	0.008639923
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0.01008451	0.008767532
0.01014734	0.008831512
0.01021018	0.008895606
0.01027301	0.008959808
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0.01065	0.00934705
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0.01077566	0.009476782
0.01083849	0.009541745
0.01090133	0.009606764
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0.01102699	0.009736946
0.01108982	0.009802094
0.01115265	0.009867271
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0.01127832	0.009997682
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0.01140398	0.010128114
0.01146681	0.010193317

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185	22.893253
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187	22.933330
188	22.952864
189	22.972040
190	22.990840
191	23.009245
192	23.027238
193	23.044799
194	23.061910
195	23.078552
196	23.094704
197	23.110347
198	23.125459
199	23.140021
200	23.154011
201	23.167408
202	23.180188
203	23.192331
204	23.203814
205	23.214613
206	23.224704
207	23.234065
208	23.242670
209	23.250494
210	23.257514
211	23.263702
212	23.269034
213	23.273483
214	23.277021
215	23.279622
216	23.281259
217	23.281902
218	23.281523
219	23.280094
220	23.277584
221	23.273965
222	23.269205
223	23.263273
224	23.256139
225	23.247771
226	23.238136
227	23.227202
228	23.214934
229	23.201301
230	23.186267
231	23.169798
232	23.151858
233	23.132413

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0.001159248	0.010323652
0.001165531	0.010388765
0.001171814	0.01045383
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0.00118438	0.01058377
0.001190664	0.010648625
0.001196947	0.010713388
0.00120323	0.010778047
0.001209513	0.010842592
0.001215796	0.01090701
0.00122208	0.010971288
0.001228363	0.011035414
0.001234646	0.011099374
0.001240929	0.011163155
0.001247212	0.011226742
0.001253495	0.011290121
0.001259779	0.011353278
0.001266062	0.011416198
0.001272345	0.011478864
0.001278628	0.011541261
0.001284911	0.011603372
0.001291195	0.011665181
0.001297478	0.01172667
0.001303761	0.011787822
0.001310044	0.011848619
0.001316327	0.011909041
0.001322611	0.01196907
0.001328894	0.012028686
0.001335177	0.01208787
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0.001347743	0.012204857
0.001354026	0.012262618
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0.001372876	0.012432705
0.001379159	0.012488259
0.001385442	0.012543203
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0.001398009	0.012651159
0.001404292	0.012704121
0.001410575	0.012756371
0.001416858	0.012807882
0.001423141	0.012858626
0.001429425	0.012908576
0.001435708	0.012957703
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0.001448274	0.01305337
0.001454557	0.01309985
0.001460841	0.013145386

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237	23.038836
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244	22.808370
245	22.767875
246	22.725362
247	22.680787
248	22.634107
249	22.585276
250	22.534251
251	22.480986
252	22.425434
253	22.367548
254	22.307282
255	22.244588
256	22.179416
257	22.111718
258	22.041444
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262	21.733567
263	21.649643
264	21.562831
265	21.473076
266	21.380324
267	21.284519
268	21.185605
269	21.083525
270	20.978221
271	20.869635
272	20.757707
273	20.642380
274	20.523591
275	20.401280
276	20.275386
277	20.145845
278	20.012594
279	19.875570
280	19.734708
281	19.589943
282	19.441208
283	19.288437

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0.001473407	0.013233501
0.001479669	0.013276014
0.001485973	0.013317452
0.001492257	0.013357782
0.00149854	0.013396967
0.001504823	0.013434974
0.001511106	0.013471764
0.001517389	0.013507301
0.001523672	0.013541547
0.001529956	0.013574464
0.001536239	0.013606012
0.001542522	0.01363615
0.001548805	0.013664839
0.001555088	0.013692036
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0.00163677	0.013889467
0.001643053	0.013890957
0.001649336	0.013890233
0.001655619	0.013887238
0.001661903	0.013881916
0.001668186	0.013874211
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0.001680752	0.013851415
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0.001699602	0.013797855
0.001705885	0.01377459
0.001712168	0.013748513
0.001718451	0.013719559
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0.001737301	0.013614763
0.001743584	0.013573625
0.001749867	0.013529267
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0.001762433	0.013430603
0.001768717	0.01337615
0.001775	0.013318182

284	19.131562
285	18.970514
286	18.805225
287	18.635625
288	18.461642
289	18.283206
290	18.100245
291	17.912685
291.5	17.800000
292.5	17.600000
293.5	17.100000
294.5	12.000000
295.5	0.000000

0.001781283	0.013256625
0.001787566	0.013191399
0.001793849	0.013122426
0.001800133	0.013049626
0.001806416	0.012972917
0.001812699	0.012892218
0.001818982	0.012807445
0.001825265	0.012718512
0.000914989	0.006335566
0.00183469	0.012561022
0.001840973	0.01224597
0.001847256	0.008622993
0.00185354	0

Please do not change any of the values in this sheet

Patm	Atmospheric air pressure - (As recorded from engine data)	975 [mBar]
Patm		97500 [Pa]
Tatm		5 [C]
Tatm		278 [K]
Relative Humidity		95 [%]

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

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)

$$\rho_{\text{humid air}} = 1.217898 \text{ Kg/m}^3$$

$$0.318090154$$

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

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

$$p_u = 828.6578 \text{ [Pa]}$$

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:

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

$$p_{\text{sat}} = 8.722714 \text{ hPa}$$

$$p_{\text{sat}} = 872.2714 \text{ [Pa]}$$

where T is in degrees C. Note:

$$\rho = \frac{p}{R_{\text{specific}} T} \quad 1.22177 \text{ [kg/m}^3\text{]}$$

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

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

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