



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	0.041	[Kg/s]
Oxygen Mass Flow rate	0.114	[Kg/s]

Please do not change anything in this box

Test Date and Time = 21.05.2015 14:26:14.0

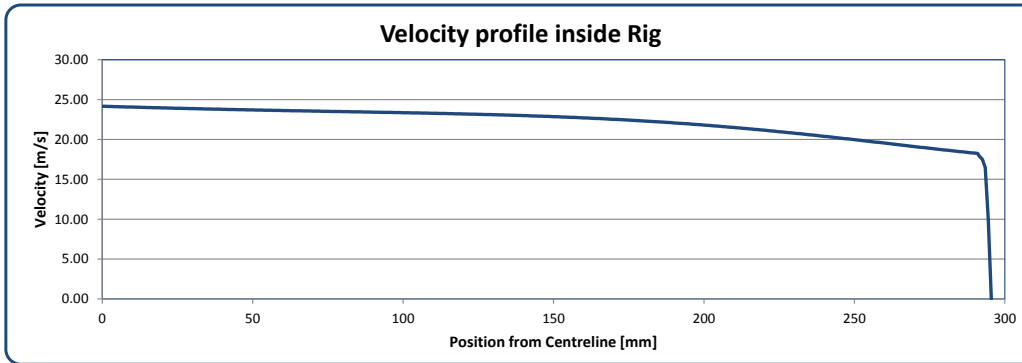
Calculated Parameters		
Air density	1.217898	[Kg/m ³]
Liquid Butane density	584	[Kg/m ³]
Butane mass Flow rate	0.280969	[Kg/s]
Air Fuel Ratio	79.23263	[]
Calculated Exhaust gas properties (Reaction Engines)		
Exhaust products density	0.515	[Kg/m ³]
Pitot Traverse Results		
Rig Gas flow rate - Integrated	2.977072	[Kg/s]
Total Rig Mass flow	3.132072	[Kg/s]
Rig Gas Temperature as read from TC 11		
Gas Temperature	345	[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

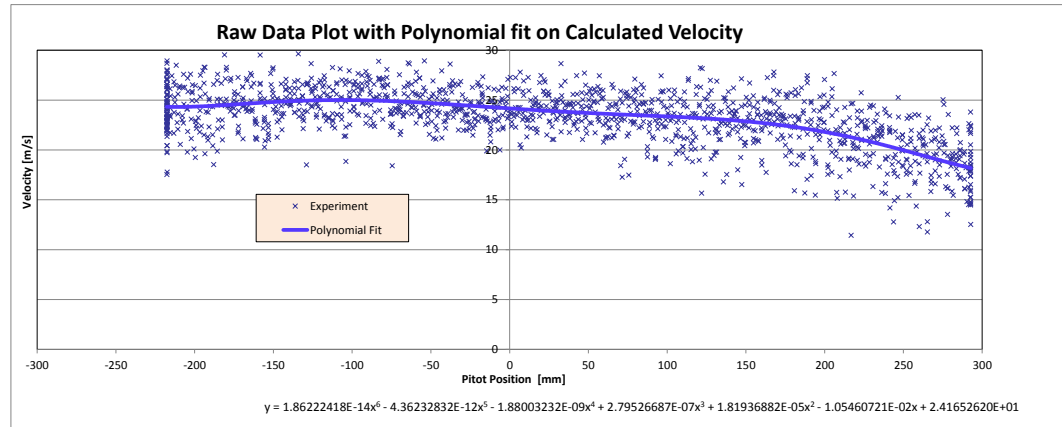
1.412939479

Average Vel 23.2440725 [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 %
21.05.2015 14:26:14.0	-217.46	345.9	1.3271	18.23
21.05.2015 14:26:14.1	-217.43	345.9	0.8139	18.25
21.05.2015 14:26:14.2	-217.48	345.9	1.3523	18.31
21.05.2015 14:26:14.3	-217.46	345.9	1.6874	18.22
21.05.2015 14:26:14.4	-217.46	345.9	1.6744	18.21
21.05.2015 14:26:14.5	-217.48	345.8	2.1547	18.27
21.05.2015 14:26:14.6	-217.48	345.8	2.3503	18.34
21.05.2015 14:26:14.7	-217.46	345.8	2.0037	18.21
21.05.2015 14:26:14.8	-217.51	345.7	1.8192	18.22
21.05.2015 14:26:14.9	-217.45	345.7	1.7561	18.27
21.05.2015 14:26:15.0	-217.44	345.7	1.4494	18.3
21.05.2015 14:26:15.1	-217.47	345.8	2.4095	18.24
21.05.2015 14:26:15.2	-217.49	345.7	1.9481	18.24
21.05.2015 14:26:15.3	-217.46	345.7	1.4037	18.26
21.05.2015 14:26:15.4	-217.55	345.7	1.5072	18.27
21.05.2015 14:26:15.5	-217.57	345.7	1.7908	18.25
21.05.2015 14:26:15.6	-217.54	345.7	1.6693	18.26
21.05.2015 14:26:15.7	-217.5	345.7	1.5416	18.27
21.05.2015 14:26:15.8	-217.57	345.8	1.4797	18.26
21.05.2015 14:26:15.9	-217.52	345.8	1.5036	18.22
21.05.2015 14:26:16.0	-217.51	345.7	1.7475	18.28
21.05.2015 14:26:16.1	-217.57	345.8	1.2404	18.3
21.05.2015 14:26:16.2	-217.58	345.9	1.6259	18.25
21.05.2015 14:26:16.3	-217.55	345.8	2.0231	18.19
21.05.2015 14:26:16.4	-217.53	345.8	1.8943	18.3
21.05.2015 14:26:16.5	-217.55	345.8	1.5265	18.31
21.05.2015 14:26:16.6	-217.54	345.9	1.8741	18.24
21.05.2015 14:26:16.7	-217.53	345.8	1.305	18.21
21.05.2015 14:26:16.8	-217.53	345.8	1.303	18.3
21.05.2015 14:26:16.9	-217.54	345.8	1.6796	18.29
21.05.2015 14:26:17.0	-217.58	345.9	1.4368	18.27
21.05.2015 14:26:17.1	-217.57	345.8	1.8984	18.24
21.05.2015 14:26:17.2	-217.49	345.8	1.2382	18.28
21.05.2015 14:26:17.3	-217.45	345.8	1.5615	18.26
21.05.2015 14:26:17.4	-217.48	345.8	1.2065	18.28
21.05.2015 14:26:17.5	-217.45	345.7	1.97	18.23
21.05.2015 14:26:17.6	-215.39	345.7	1.4004	18.31
21.05.2015 14:26:17.7	-215.5	345.7	1.2156	18.24
21.05.2015 14:26:17.8	-215.49	345.7	1.5065	18.24
21.05.2015 14:26:17.9	-215.28	345.6	1.6635	18.26
21.05.2015 14:26:18.0	-212.38	345.6	1.8054	18.32
21.05.2015 14:26:18.1	-212.58	345.7	1.5797	18.23
21.05.2015 14:26:18.2	-212.51	345.7	1.6446	18.21
21.05.2015 14:26:18.3	-211.13	345.6	1.3316	18.27
21.05.2015 14:26:18.4	-209.46	345.6	1.7972	18.33
21.05.2015 14:26:18.5	-209.63	345.7	1.769	18.23
21.05.2015 14:26:18.6	-209.12	345.6	1.0886	18.22
21.05.2015 14:26:18.7	-206.84	345.6	1.5557	18.26
21.05.2015 14:26:18.8	-207.08	345.6	1.3266	18.31
21.05.2015 14:26:18.9	-207.03	345.6	1.9603	18.23
21.05.2015 14:26:19.0	-206.32	345.6	1.7792	18.25
21.05.2015 14:26:19.1	-204.23	345.6	1.7206	18.25
21.05.2015 14:26:19.2	-204.47	345.6	1.2293	18.3
21.05.2015 14:26:19.3	-204.4	345.7	1.9037	18.22
21.05.2015 14:26:19.4	-201.4	345.6	1.8136	18.26
21.05.2015 14:26:19.5	-201.57	345.6	1.7225	18.25
21.05.2015 14:26:19.6	-201.54	345.6	1.7027	18.28
21.05.2015 14:26:19.7	-200.43	345.6	1.0409	18.21
21.05.2015 14:26:19.8	-198.8	345.6	1.2663	18.29

Calculated Velocity [m/s]
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17.7785733
22.9164798
25.5988471
25.5000476
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27.1900896
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20.1055467
22.1758199



21.05.2015 14:26:19.9	-198.98	345.6	1.3509	18.29
21.05.2015 14:26:20.0	-198.96	345.7	1.3012	18.25
21.05.2015 14:26:20.1	-197.63	345.6	1.389	18.2
21.05.2015 14:26:20.2	-196.27	345.6	1.9472	18.29
21.05.2015 14:26:20.3	-196.42	345.6	1.6518	18.3
21.05.2015 14:26:20.4	-195.71	345.6	1.2921	18.24
21.05.2015 14:26:20.5	-193.28	345.6	1.6887	18.22
21.05.2015 14:26:20.6	-193.44	345.6	0.9914	18.27
21.05.2015 14:26:20.7	-193.45	345.6	2.0603	18.3
21.05.2015 14:26:20.8	-192.68	345.6	1.462	18.25
21.05.2015 14:26:20.9	-190.68	345.6	1.6307	18.25
21.05.2015 14:26:21.0	-190.9	345.6	1.6078	18.28
21.05.2015 14:26:21.1	-190.91	345.6	1.2817	18.29
21.05.2015 14:26:21.2	-188.61	345.6	1.5243	18.26
21.05.2015 14:26:21.3	-187.88	345.6	2.6122	18.27
21.05.2015 14:26:21.4	-187.97	345.6	2.4478	18.29
21.05.2015 14:26:21.5	-187.95	345.7	1.8192	18.29
21.05.2015 14:26:21.6	-185.69	345.7	1.8722	18.22
21.05.2015 14:26:21.7	-185.39	345.7	1.9601	18.31
21.05.2015 14:26:21.8	-185.4	345.7	1.2593	18.32
21.05.2015 14:26:21.9	-183.68	345.7	1.6195	18.27
21.05.2015 14:26:22.0	-182.36	345.7	1.1361	18.22
21.05.2015 14:26:22.1	-182.5	345.6	1.281	18.31
21.05.2015 14:26:22.2	-182.43	345.7	1.3628	18.33
21.05.2015 14:26:22.3	-179.78	345.7	2.0587	18.27
21.05.2015 14:26:22.4	-179.9	345.6	1.623	18.24
21.05.2015 14:26:22.5	-179.87	345.6	2.0202	18.31
21.05.2015 14:26:22.6	-178.94	345.6	1.5332	18.31
21.05.2015 14:26:22.7	-177.2	345.6	1.8675	18.31
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21.05.2015 14:26:22.9	-176.99	345.6	1.9024	18.32
21.05.2015 14:26:23.0	-174.63	345.6	1.7187	18.28
21.05.2015 14:26:23.1	-174.79	345.6	1.4177	18.32
21.05.2015 14:26:23.2	-174.74	345.5	1.6756	18.25
21.05.2015 14:26:23.3	-174.25	345.5	1.4219	18.35
21.05.2015 14:26:23.4	-172.06	345.6	1.4751	18.27
21.05.2015 14:26:23.5	-172.22	345.5	1.2295	18.27
21.05.2015 14:26:23.6	-172.19	345.4	1.2898	18.28
21.05.2015 14:26:23.7	-169.3	345.5	1.1482	18.37
21.05.2015 14:26:23.8	-169.3	345.5	1.5443	18.26
21.05.2015 14:26:23.9	-169.22	345.4	1.5251	18.25
21.05.2015 14:26:24.0	-169.17	345.3	1.6361	18.31
21.05.2015 14:26:24.1	-166.58	345.4	1.5626	18.35
21.05.2015 14:26:24.2	-166.73	345.4	1.4662	18.26
21.05.2015 14:26:24.3	-166.72	345.3	1.8688	18.27
21.05.2015 14:26:24.4	-165.44	345.2	1.4796	18.29
21.05.2015 14:26:24.5	-163.56	345.3	1.4658	18.34
21.05.2015 14:26:24.6	-163.81	345.3	1.9427	18.27
21.05.2015 14:26:24.7	-163.77	345.2	2.637	18.28
21.05.2015 14:26:24.8	-162.4	345.2	1.8348	18.3
21.05.2015 14:26:24.9	-161.08	345.2	1.1492	18.32
21.05.2015 14:26:25.0	-161.25	345.1	1.1624	18.27
21.05.2015 14:26:25.1	-160.5	345.1	1.1418	18.29
21.05.2015 14:26:25.2	-158.04	345	1.5979	18.32
21.05.2015 14:26:25.3	-158.32	345.1	1.6328	18.3
21.05.2015 14:26:25.4	-158.26	345	1.8326	18.24
21.05.2015 14:26:25.5	-156.44	344.9	1.2637	18.32
21.05.2015 14:26:25.6	-155.66	345	1.3942	18.35
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21.05.2015 14:26:26.1	-153.15	345.1	1.3193	18.29
21.05.2015 14:26:26.2	-151.69	345.1	1.9703	18.28
21.05.2015 14:26:26.3	-150.01	345	1.4912	18.31
21.05.2015 14:26:26.4	-150.17	345.1	2.0533	18.33
21.05.2015 14:26:26.5	-150.2	345.1	1.6952	18.3
21.05.2015 14:26:26.6	-148.71	345.2	1.4473	18.3
21.05.2015 14:26:26.7	-147.52	345.1	1.6236	18.32
21.05.2015 14:26:26.8	-147.61	345.2	1.4637	18.33
21.05.2015 14:26:26.9	-147.67	345.2	1.6274	18.29

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25.1396102

21.05.2015 14:26:27.0	-144.97	345.2	1.5353	18.32	24.417883
21.05.2015 14:26:27.1	-145.05	345.2	1.8256	18.34	26.626507
21.05.2015 14:26:27.2	-145.02	345.2	1.5912	18.31	24.8584341
21.05.2015 14:26:27.3	-144.86	345.2	1.6041	18.25	24.9589955
21.05.2015 14:26:27.4	-141.98	345.2	1.8901	18.35	27.0927927
21.05.2015 14:26:27.5	-142.15	345.2	1.8181	18.36	26.5717567
21.05.2015 14:26:27.6	-142.15	345.2	1.741	18.29	26.0022404
21.05.2015 14:26:27.7	-139.69	345.2	1.7668	18.25	26.1941963
21.05.2015 14:26:27.8	-139.15	345.2	1.5617	18.35	24.626925
21.05.2015 14:26:27.9	-139.17	345.2	1.5375	18.36	24.4353715
21.05.2015 14:26:28.0	-138.71	345.3	1.5572	18.31	24.5914185
21.05.2015 14:26:28.1	-136.46	345.3	1.4555	18.28	23.7748337
21.05.2015 14:26:28.2	-136.6	345.2	1.8551	18.33	26.8407747
21.05.2015 14:26:28.3	-136.63	345.3	1.7667	18.34	26.193455
21.05.2015 14:26:28.4	-134.08	345.3	1.6166	18.31	25.0560537
21.05.2015 14:26:28.5	-134.09	345.3	2.2627	18.29	29.6431855
21.05.2015 14:26:28.6	-134.04	345.3	1.7637	18.33	26.1712063
21.05.2015 14:26:28.7	-133.22	345.3	1.6073	18.33	24.9838783
21.05.2015 14:26:28.8	-131.26	345.3	1.3771	18.28	23.1256593
21.05.2015 14:26:28.9	-131.52	345.3	1.6595	18.32	25.3863353
21.05.2015 14:26:29.0	-131.48	345.3	1.8171	18.33	26.5644481
21.05.2015 14:26:29.1	-130.39	345.4	1.473	18.32	23.9173334
21.05.2015 14:26:29.2	-128.8	345.4	1.8126	18.26	26.5315346
21.05.2015 14:26:29.3	-128.95	345.3	0.8814	18.33	18.5011152
21.05.2015 14:26:29.4	-128.45	345.4	1.5697	18.37	24.6899217
21.05.2015 14:26:29.5	-125.81	345.4	1.9042	18.29	27.19366
21.05.2015 14:26:29.6	-126.02	345.3	2.115	18.25	28.6593654
21.05.2015 14:26:29.7	-125.99	345.3	1.7637	18.34	26.1712063
21.05.2015 14:26:29.8	-125.36	345.3	1.7358	18.35	25.9633797
21.05.2015 14:26:29.9	-123.28	345.3	1.7589	18.3	26.1355689
21.05.2015 14:26:30.0	-123.5	345.3	1.8	18.27	26.439159
21.05.2015 14:26:30.1	-123.42	345.3	1.65	18.33	25.3135675
21.05.2015 14:26:30.2	-121.63	345.3	1.522	18.33	24.3118893
21.05.2015 14:26:30.3	-120.83	345.3	1.2571	18.31	22.0951165
21.05.2015 14:26:30.4	-120.83	345.3	1.8422	18.29	26.7472891
21.05.2015 14:26:30.5	-120.57	345.4	1.6508	18.33	25.3197034
21.05.2015 14:26:30.6	-117.75	345.4	1.9376	18.32	27.4311141
21.05.2015 14:26:30.7	-117.97	345.4	1.7028	18.29	25.7153953
21.05.2015 14:26:30.8	-117.91	345.4	1.8112	18.3	26.5212866
21.05.2015 14:26:30.9	-116.47	345.5	1.3525	18.37	22.9181744
21.05.2015 14:26:31.0	-114.86	345.5	1.3944	18.28	23.2704655
21.05.2015 14:26:31.1	-114.98	345.6	1.3822	18.27	23.1684419
21.05.2015 14:26:31.2	-114.98	345.5	1.6312	18.32	25.1689437
21.05.2015 14:26:31.3	-112.52	345.6	1.2945	18.37	22.4213837
21.05.2015 14:26:31.4	-112.44	345.7	2.0576	18.27	28.2677902
21.05.2015 14:26:31.5	-112.43	345.6	1.3601	18.29	22.9824754
21.05.2015 14:26:31.6	-112.45	345.6	1.4406	18.31	23.6528288
21.05.2015 14:26:31.7	-109.73	345.7	1.8426	18.36	26.7501928
21.05.2015 14:26:31.8	-109.9	345.7	1.6857	18.3	25.5859488
21.05.2015 14:26:31.9	-109.89	345.7	1.824	18.28	26.6148364
21.05.2015 14:26:32.0	-107.6	345.6	2.0381	18.32	28.1335235
21.05.2015 14:26:32.1	-106.83	345.6	1.6485	18.35	25.3020587
21.05.2015 14:26:32.2	-106.96	345.6	1.6213	18.3	25.0924504
21.05.2015 14:26:32.3	-106.63	345.6	1.3712	18.29	23.0760667
21.05.2015 14:26:32.4	-104.18	345.6	1.5914	18.34	24.8599963
21.05.2015 14:26:32.5	-104.37	345.6	1.6106	18.32	25.0095128
21.05.2015 14:26:32.6	-104.43	345.6	1.8172	18.3	26.565179
21.05.2015 14:26:32.7	-103.82	345.5	1.874	18.31	26.9771568
21.05.2015 14:26:32.8	-101.6	345.5	1.8528	18.36	26.8241306
21.05.2015 14:26:32.9	-101.82	345.6	2.009	18.31	27.9319562
21.05.2015 14:26:33.0	-101.8	345.5	1.7118	18.27	25.7832639
21.05.2015 14:26:33.1	-98.83	345.5	1.8056	18.35	26.4802546
21.05.2015 14:26:33.2	-98.91	345.5	1.8188	18.37	26.5768715
21.05.2015 14:26:33.3	-98.88	345.6	1.5287	18.3	24.3653422
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21.05.2015 14:26:33.7	-96.3	345.5	2.4101	18.32	30.5934824
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21.05.2015 14:26:34.0	-93.71	345.4	1.9454	18.34	27.4862719

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21.05.2015 14:26:34.3	-90.81	345.3	1.8538	18.32	26.8313684
21.05.2015 14:26:34.4	-90.76	345.2	1.5626	18.33	24.6340202
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21.05.2015 14:26:34.8	-88.24	345	1.3836	18.28	23.1801723
21.05.2015 14:26:34.9	-86.49	345	1.3225	18.25	22.6625734
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21.05.2015 14:26:36.7	-71.96	344.7	1.5991	18.29	24.9200664
21.05.2015 14:26:36.8	-72.15	344.7	1.5019	18.25	24.1508206
21.05.2015 14:26:36.9	-72.09	344.7	1.4463	18.32	23.699576
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21.05.2015 14:26:38.7	-58.04	344.7	1.6691	18.27	25.4596578
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21.05.2015 14:26:49.7	25.18	344.6	1.3406	18.26	22.8171286
21.05.2015 14:26:49.8	25.02	344.6	1.6741	18.34	25.4977631
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21.05.2015 14:26:50.3	29.27	344.7	1.5263	18.36	24.3462084
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21.05.2015 14:26:54.6	61.05	346.1	1.3194	18.3	22.6359968
21.05.2015 14:26:54.7	62.54	346.1	1.5036	18.3	24.1644849
21.05.2015 14:26:54.8	62.42	346.2	1.1706	18.32	21.3213963
21.05.2015 14:26:54.9	62.45	346.2	1.3606	18.33	22.9866994
21.05.2015 14:26:55.0	64.96	346.3	1.1589	18.29	21.2145764
21.05.2015 14:26:55.1	64.98	346.3	1.8191	18.32	26.5790632
21.05.2015 14:26:55.2	64.97	346.4	1.53	18.34	24.3757001
21.05.2015 14:26:55.3	65.83	346.4	1.7705	18.31	26.2216097

21.05.2015 14:26:55.4	67.77	346.4	1.3686	18.27	23.0541785
21.05.2015 14:26:55.5	67.48	346.5	1.5472	18.35	24.512331
21.05.2015 14:26:55.6	67.57	346.5	1.5663	18.37	24.6631678
21.05.2015 14:26:55.7	69.91	346.5	1.4133	18.3	23.4276411
21.05.2015 14:26:55.8	70.51	346.5	0.8742	18.27	18.425394
21.05.2015 14:26:55.9	70.49	346.5	1.7274	18.34	25.9004817
21.05.2015 14:26:56.0	70.91	346.6	1.3565	18.36	22.9520395
21.05.2015 14:26:56.1	73.23	346.6	1.7002	18.31	25.6957554
21.05.2015 14:26:56.2	72.98	346.6	1.3679	18.3	23.048282
21.05.2015 14:26:56.3	73.05	346.5	0.9364	18.33	19.0696221
21.05.2015 14:26:56.4	74.6	346.5	1.1772	18.35	21.3814183
21.05.2015 14:26:56.5	75.69	346.5	0.7864	18.31	17.4756419
21.05.2015 14:26:56.6	75.6	346.5	1.2074	18.32	21.653942
21.05.2015 14:26:56.7	75.65	346.6	1.5331	18.33	24.400382
21.05.2015 14:26:56.8	78.7	346.6	1.7456	18.34	26.0365688
21.05.2015 14:26:56.9	78.52	346.6	1.3392	18.31	22.8052115
21.05.2015 14:26:57.0	78.58	346.5	1.3144	18.32	22.5930654
21.05.2015 14:26:57.1	79.38	346.6	1.6233	18.37	25.1079224
21.05.2015 14:26:57.2	80.88	346.6	1.5246	18.3	24.3326462
21.05.2015 14:26:57.3	80.74	346.6	1.7579	18.3	26.1281383
21.05.2015 14:26:57.4	81.14	346.5	1.4678	18.33	23.8750794
21.05.2015 14:26:57.5	83.84	346.5	1.6789	18.39	25.5342907
21.05.2015 14:26:57.6	83.66	346.6	1.8175	18.29	26.5673718
21.05.2015 14:26:57.7	83.7	346.5	1.2871	18.28	22.357206
21.05.2015 14:26:57.8	85.08	346.5	1.7702	18.34	26.2193881
21.05.2015 14:26:57.9	86.37	346.5	1.577	18.37	24.7472662
21.05.2015 14:26:58.0	86.27	346.5	1.4655	18.3	23.8563663
21.05.2015 14:26:58.1	86.87	346.5	1.4429	18.3	23.6717028
21.05.2015 14:26:58.2	89	346.5	1.3334	18.32	22.7557738
21.05.2015 14:26:58.3	88.81	346.5	1.2923	18.36	22.402323
21.05.2015 14:26:58.4	88.82	346.5	1.4818	18.3	23.9886705
21.05.2015 14:26:58.5	90.7	346.5	1.1709	18.31	21.3241283
21.05.2015 14:26:58.6	91.43	346.5	1.1534	18.32	21.1641756
21.05.2015 14:26:58.7	91.37	346.5	1.4203	18.35	23.4855874
21.05.2015 14:26:58.8	92.45	346.5	1.3589	18.27	22.9723346
21.05.2015 14:26:58.9	94.08	346.5	1.2611	18.33	22.1302411
21.05.2015 14:26:59.0	93.94	346.5	1.3188	18.34	22.6308493
21.05.2015 14:26:59.1	93.96	346.5	1.4367	18.33	23.6207906
21.05.2015 14:26:59.2	96.23	346.5	1.9392	18.25	27.4424375
21.05.2015 14:26:59.3	96.53	346.4	1.3157	18.35	22.6042354
21.05.2015 14:26:59.4	96.52	346.4	1.5843	18.36	24.8044781
21.05.2015 14:26:59.5	97.09	346.4	1.7286	18.3	25.9094765
21.05.2015 14:26:59.6	99.29	346.4	1.2851	18.25	22.339829
21.05.2015 14:26:59.7	99.05	346.4	1.3628	18.35	23.0052759
21.05.2015 14:26:59.8	99.06	346.4	1.1407	18.34	21.0473345
21.05.2015 14:26:59.9	101.09	346.4	1.7409	18.3	26.0014936
21.05.2015 14:27:00.0	102.1	346.4	1.6303	18.28	25.1619994
21.05.2015 14:27:00.1	102.02	346.4	0.8937	18.32	18.6297601
21.05.2015 14:27:00.2	102.19	346.4	1.3528	18.32	22.920716
21.05.2015 14:27:00.3	104.71	346.4	1.7409	18.31	26.0014936
21.05.2015 14:27:00.4	104.55	346.4	1.6808	18.28	25.5487351
21.05.2015 14:27:00.5	104.56	346.4	1.4444	18.33	23.6840039
21.05.2015 14:27:00.6	105.78	346.4	1.1774	18.3	21.3832345
21.05.2015 14:27:00.7	107.32	346.4	1.358	18.28	22.964726
21.05.2015 14:27:00.8	107.14	346.4	1.2505	18.29	22.0370385
21.05.2015 14:27:00.9	107.12	346.5	1.0205	18.35	19.9075533
21.05.2015 14:27:01.0	109.89	346.5	1.062	18.27	20.3083033
21.05.2015 14:27:01.1	110.13	346.5	1.0654	18.25	20.3407859
21.05.2015 14:27:01.2	110	346.4	0.9983	18.32	19.6898278
21.05.2015 14:27:01.3	110.74	346.4	1.1513	18.35	21.1449
21.05.2015 14:27:01.4	112.84	346.5	1.1566	18.25	21.1935143
21.05.2015 14:27:01.5	112.61	346.5	0.9435	18.25	19.1417807
21.05.2015 14:27:01.6	112.75	346.4	1.5217	18.31	24.3094931
21.05.2015 14:27:01.7	115.37	346.4	1.3947	18.31	23.2729686
21.05.2015 14:27:01.8	115.18	346.5	1.0962	18.26	20.6327104
21.05.2015 14:27:01.9	115.2	346.5	1.0343	18.25	20.0417041
21.05.2015 14:27:02.0	116.33	346.5	1.1311	18.29	20.9585814
21.05.2015 14:27:02.1	117.91	346.4	1.04	18.29	20.0968529
21.05.2015 14:27:02.2	117.73	346.5	1.4402	18.27	23.6495448
21.05.2015 14:27:02.3	118.19	346.5	1.1639	18.26	21.2602916
21.05.2015 14:27:02.4	120.54	346.5	1.5535	18.31	24.5621858

21.05.2015 14:27:02.5	120.3	346.5	1.3865	18.28	23.2044522
21.05.2015 14:27:02.6	120.38	346.5	0.9266	18.24	18.969572
21.05.2015 14:27:02.7	121.92	346.5	0.6322	18.27	15.6689043
21.05.2015 14:27:02.8	122.94	346.5	1.055	18.34	20.2412632
21.05.2015 14:27:02.9	122.86	346.5	1.3749	18.24	23.1071796
21.05.2015 14:27:03.0	123.7	346.5	1.4592	18.21	23.8050333
21.05.2015 14:27:03.1	125.67	346.5	1.389	18.29	23.2253628
21.05.2015 14:27:03.2	125.39	346.5	1.6185	18.36	25.0707736
21.05.2015 14:27:03.3	125.5	346.5	1.4337	18.23	23.5961162
21.05.2015 14:27:03.4	127.46	346.5	1.8755	18.24	26.9879513
21.05.2015 14:27:03.5	128.05	346.5	1.4417	18.27	23.6618574
21.05.2015 14:27:03.6	128.02	346.5	0.9395	18.33	19.1011615
21.05.2015 14:27:03.7	129.22	346.5	1.5427	18.25	24.4766582
21.05.2015 14:27:03.8	130.75	346.4	1.2118	18.26	21.6933617
21.05.2015 14:27:03.9	130.56	346.4	1.2566	18.27	22.090722
21.05.2015 14:27:04.0	130.62	346.4	1.0064	18.3	19.7695461
21.05.2015 14:27:04.1	132.97	346.5	1.1398	18.26	21.0390298
21.05.2015 14:27:04.2	133.17	346.4	1.4489	18.27	23.7208687
21.05.2015 14:27:04.3	133.16	346.4	1.3029	18.28	22.4940121
21.05.2015 14:27:04.4	133.82	346.4	1.1413	18.29	21.0528692
21.05.2015 14:27:04.5	135.94	346.4	1.6388	18.22	25.2275085
21.05.2015 14:27:04.6	135.69	346.4	1.3482	18.28	22.8817136
21.05.2015 14:27:04.7	135.71	346.4	0.7267	18.33	16.799214
21.05.2015 14:27:04.8	137.84	346.4	0.7915	18.26	17.5322172
21.05.2015 14:27:04.9	138.79	346.4	1.1906	18.21	21.5027657
21.05.2015 14:27:05.0	138.68	346.4	1.5222	18.31	24.3134866
21.05.2015 14:27:05.1	138.93	346.4	1.7195	18.34	25.8411879
21.05.2015 14:27:05.2	141.37	346.4	1.2584	18.25	22.1065382
21.05.2015 14:27:05.3	141.19	346.4	1.4722	18.25	23.9108376
21.05.2015 14:27:05.4	141.2	346.4	1.3711	18.29	23.0752252
21.05.2015 14:27:05.5	142.55	346.4	1.4375	18.32	23.6273661
21.05.2015 14:27:05.6	143.9	346.4	1.2861	18.26	22.3485192
21.05.2015 14:27:05.7	143.8	346.4	1.4677	18.28	23.8742661
21.05.2015 14:27:05.8	143.8	346.4	1.4749	18.27	23.9327537
21.05.2015 14:27:05.9	146.67	346.4	1.1502	18.32	21.1347962
21.05.2015 14:27:06.0	146.7	346.4	1.3501	18.26	22.8978313
21.05.2015 14:27:06.1	146.76	346.3	0.9534	18.3	19.2419445
21.05.2015 14:27:06.2	147.45	346.3	0.7033	18.3	16.5265306
21.05.2015 14:27:06.3	149.46	346.3	1.5463	18.31	24.5052006
21.05.2015 14:27:06.4	149.27	346.2	1.1113	18.23	20.7743307
21.05.2015 14:27:06.5	149.28	346.2	1.0754	18.33	20.4360238
21.05.2015 14:27:06.6	151.28	346.1	1.3919	18.34	23.2495955
21.05.2015 14:27:06.7	151.92	346.1	1.6062	18.28	24.9753276
21.05.2015 14:27:06.8	151.88	346.1	1.2711	18.22	22.2178097
21.05.2015 14:27:06.9	152.26	346.1	1.357	18.34	22.9562691
21.05.2015 14:27:07.0	154.97	346	1.5198	18.33	24.2943119
21.05.2015 14:27:07.1	154.73	346	1.6659	18.29	25.4352404
21.05.2015 14:27:07.2	154.77	346	1.2469	18.25	22.005295
21.05.2015 14:27:07.3	156.27	345.9	1.1381	18.32	21.0233342
21.05.2015 14:27:07.4	157.47	345.9	1.4312	18.31	23.5755345
21.05.2015 14:27:07.5	157.33	345.9	1.4244	18.31	23.5194611
21.05.2015 14:27:07.6	158.06	345.9	1.12	18.27	20.8554898
21.05.2015 14:27:07.7	160.14	345.9	1.2376	18.32	21.9230782
21.05.2015 14:27:07.8	159.85	345.9	1.4194	18.31	23.4781452
21.05.2015 14:27:07.9	159.88	345.9	1.2689	18.29	22.1985743
21.05.2015 14:27:08.0	161.85	345.8	1.6366	18.3	25.2105695
21.05.2015 14:27:08.1	162.49	345.8	1.464	18.34	23.8441542
21.05.2015 14:27:08.2	162.45	345.8	1.2918	18.29	22.3979888
21.05.2015 14:27:08.3	163.64	345.8	1.9139	18.27	27.2628343
21.05.2015 14:27:08.4	165.22	345.7	1.6063	18.31	24.9761051
21.05.2015 14:27:08.5	164.98	345.7	1.3607	18.37	22.9875441
21.05.2015 14:27:08.6	165.48	345.7	1.2124	18.27	21.6987316
21.05.2015 14:27:08.7	167.83	345.7	1.9911	18.26	27.8072422
21.05.2015 14:27:08.8	167.55	345.7	1.9408	18.33	27.4537564
21.05.2015 14:27:08.9	167.62	345.7	1.7394	18.37	25.9902894
21.05.2015 14:27:09.0	169.2	345.7	1.4637	18.27	23.841711
21.05.2015 14:27:09.1	170.27	345.7	1.1407	18.29	21.0473345
21.05.2015 14:27:09.2	170.15	345.7	1.3727	18.32	23.0886851
21.05.2015 14:27:09.3	170.23	345.7	1.6815	18.34	25.5540546
21.05.2015 14:27:09.4	172.84	345.7	1.3456	18.3	22.8596393
21.05.2015 14:27:09.5	172.7	345.6	1.189	18.29	21.4883125

21.05.2015 14:27:09.6	172.73	345.6	1.4333	18.31	23.5928243
21.05.2015 14:27:09.7	173.76	345.6	1.4141	18.32	23.4342708
21.05.2015 14:27:09.8	175.45	345.6	1.6868	18.29	25.5942955
21.05.2015 14:27:09.9	175.29	345.6	1.3761	18.32	23.1172612
21.05.2015 14:27:10.0	175.3	345.6	0.9703	18.33	19.411737
21.05.2015 14:27:10.1	177.84	345.6	1.0274	18.32	19.9747413
21.05.2015 14:27:10.2	178.23	345.6	1.1802	18.25	21.4086454
21.05.2015 14:27:10.3	178.24	345.5	1.4082	18.33	23.3853327
21.05.2015 14:27:10.4	178.75	345.6	1.7041	18.37	25.7252096
21.05.2015 14:27:10.5	180.97	345.6	1.4099	18.28	23.399444
21.05.2015 14:27:10.6	180.79	345.6	1.2738	18.25	22.2413941
21.05.2015 14:27:10.7	180.82	345.6	0.6522	18.33	15.9148218
21.05.2015 14:27:10.8	182.5	345.6	0.8836	18.36	18.5241904
21.05.2015 14:27:10.9	183.43	345.7	1.6936	18.29	25.6458328
21.05.2015 14:27:11.0	183.36	345.7	1.3983	18.28	23.3029853
21.05.2015 14:27:11.1	183.5	345.7	1.36	18.33	22.9816305
21.05.2015 14:27:11.2	186.42	345.7	1.4745	18.33	23.9295081
21.05.2015 14:27:11.3	186.26	345.7	1.2561	18.29	22.0863267
21.05.2015 14:27:11.4	186.31	345.8	0.9484	18.29	19.191422
21.05.2015 14:27:11.5	187.45	345.8	0.6333	18.33	15.68253
21.05.2015 14:27:11.6	189.02	345.8	1.1997	18.33	21.5847843
21.05.2015 14:27:11.7	188.85	345.8	1.8977	18.29	27.1472075
21.05.2015 14:27:11.8	188.86	345.8	1.3439	18.31	22.8451945
21.05.2015 14:27:11.9	191.19	345.9	1.3052	18.35	22.5138577
21.05.2015 14:27:12.0	191.39	345.9	1.5927	18.31	24.8701482
21.05.2015 14:27:12.1	191.43	345.9	1.5715	18.26	24.7040738
21.05.2015 14:27:12.2	193.28	345.9	1.4798	18.34	23.9724761
21.05.2015 14:27:12.3	194.45	346	1.2488	18.37	22.0220543
21.05.2015 14:27:12.4	194.35	346	1.1942	18.29	21.5352499
21.05.2015 14:27:12.5	194.38	346	1.2418	18.26	21.9602465
21.05.2015 14:27:12.6	195.94	346.1	1.2994	18.34	22.4637788
21.05.2015 14:27:12.7	196.59	346.1	1.3758	18.36	23.1147412
21.05.2015 14:27:12.8	196.57	346.2	1.1381	18.3	21.0233342
21.05.2015 14:27:12.9	197.78	346.3	1.3639	18.29	23.0145585
21.05.2015 14:27:13.0	199.69	346.3	1.5208	18.32	24.3023032
21.05.2015 14:27:13.1	199.46	346.3	1.2482	18.34	22.0167633
21.05.2015 14:27:13.2	199.89	346.3	1.8863	18.31	27.0655443
21.05.2015 14:27:13.3	202.26	346.4	1.5828	18.29	24.792733
21.05.2015 14:27:13.4	202.01	346.4	0.7939	18.32	17.5587779
21.05.2015 14:27:13.5	202.01	346.4	0.8824	18.34	18.5116075
21.05.2015 14:27:13.6	203.57	346.4	1.0778	18.29	20.4588149
21.05.2015 14:27:13.7	204.73	346.4	1.4157	18.31	23.4475246
21.05.2015 14:27:13.8	204.6	346.4	0.8131	18.35	17.7698337
21.05.2015 14:27:13.9	204.63	346.4	1.0071	18.31	19.7764202
21.05.2015 14:27:14.0	207.39	346.4	1.0183	18.25	19.8860833
21.05.2015 14:27:14.1	207.13	346.4	0.9663	18.35	19.3716839
21.05.2015 14:27:14.2	207.2	346.4	1.2523	18.36	22.0528932
21.05.2015 14:27:14.3	208.15	346.4	1.2148	18.3	21.7201977
21.05.2015 14:27:14.4	209.92	346.4	1.275	18.26	22.251868
21.05.2015 14:27:14.5	209.7	346.4	1.1262	18.34	20.9131352
21.05.2015 14:27:14.6	209.77	346.5	0.7729	18.35	17.3249918
21.05.2015 14:27:14.7	212.22	346.5	1.1001	18.31	20.6693808
21.05.2015 14:27:14.8	212.71	346.5	1.1009	18.28	20.6768948
21.05.2015 14:27:14.9	212.7	346.5	1.332	18.33	22.7438245
21.05.2015 14:27:15.0	213.19	346.5	0.6413	18.34	15.7812719
21.05.2015 14:27:15.1	215.39	346.5	0.9473	18.31	19.1802892
21.05.2015 14:27:15.2	215.24	346.5	0.9337	18.3	19.0421097
21.05.2015 14:27:15.3	215.22	346.5	1.1729	18.34	21.3423322
21.05.2015 14:27:15.4	216.87	346.5	1.5622	18.32	24.6308671
21.05.2015 14:27:15.5	217.9	346.5	0.9398	18.3	19.1042109
21.05.2015 14:27:15.6	217.85	346.5	1.1095	18.31	20.7574995
21.05.2015 14:27:15.7	217.9	346.5	1.5671	18.36	24.6694654
21.05.2015 14:27:15.8	220.88	346.5	1.3875	18.3	23.2128187
21.05.2015 14:27:15.9	220.74	346.5	1.4723	18.26	23.9116497
21.05.2015 14:27:16.0	220.72	346.4	0.925	18.35	18.9531871
21.05.2015 14:27:16.1	221.83	346.4	0.8896	18.37	18.5869774
21.05.2015 14:27:16.2	223.51	346.5	1.13	18.3	20.9483878
21.05.2015 14:27:16.3	223.32	346.4	1.1426	18.26	21.0648559
21.05.2015 14:27:16.4	223.75	346.4	1.3539	18.34	22.9300329
21.05.2015 14:27:16.5	226.08	346.3	0.8708	18.35	18.3895285
21.05.2015 14:27:16.6	225.84	346.4	1.2798	18.31	22.2937146

21.05.2015 14:27:16.7	225.84	346.4	1.2996	18.28	22.4655075
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21.05.2015 14:27:38.6	216.88	345.2	0.3368	18.29	11.436613
21.05.2015 14:27:38.7	215.66	345.2	0.8331	18.29	17.9870504
21.05.2015 14:27:38.8	215.79	345.2	1.2487	18.34	22.0211725
21.05.2015 14:27:38.9	215.77	345.2	1.3891	18.37	23.2261988
21.05.2015 14:27:39.0	212.7	345.2	1.2088	18.33	21.6664924
21.05.2015 14:27:39.1	212.86	345.3	1.1427	18.32	21.0657777
21.05.2015 14:27:39.2	212.84	345.3	1.5172	18.35	24.2735223
21.05.2015 14:27:39.3	211.89	345.3	1.339	18.34	22.8035085
21.05.2015 14:27:39.4	210.08	345.3	1.204	18.32	21.6234321
21.05.2015 14:27:39.5	210.35	345.3	0.9359	18.33	19.0645302
21.05.2015 14:27:39.6	210.26	345.2	1.0913	18.37	20.5865448
21.05.2015 14:27:39.7	208.09	345.3	0.5915	18.33	15.1561452
21.05.2015 14:27:39.8	207.71	345.3	0.6383	18.29	15.7443163
21.05.2015 14:27:39.9	207.71	345.3	1.4867	18.35	24.0283005
21.05.2015 14:27:40.0	206.09	345.3	1.9705	18.39	27.6630208
21.05.2015 14:27:40.1	204.64	345.3	1.6525	18.32	25.3327372
21.05.2015 14:27:40.2	204.83	345.3	1.7602	18.29	26.1452255
21.05.2015 14:27:40.3	204.78	345.3	1.2117	18.37	21.6924666
21.05.2015 14:27:40.4	203.14	345.3	1.132	18.38	20.966918
21.05.2015 14:27:40.5	202.16	345.3	1.5324	18.32	24.3948108
21.05.2015 14:27:40.6	202.21	345.3	0.8554	18.31	18.2261947
21.05.2015 14:27:40.7	202.08	345.3	1.2392	18.36	21.937245
21.05.2015 14:27:40.8	199.53	345.3	1.3317	18.37	22.7412631
21.05.2015 14:27:40.9	199.66	345.3	1.3379	18.34	22.7941399
21.05.2015 14:27:41.0	199.66	345.3	1.6757	18.31	25.5099448
21.05.2015 14:27:41.1	198.57	345.3	1.5142	18.36	24.2495121
21.05.2015 14:27:41.2	196.9	345.3	1.4694	18.35	23.8880886
21.05.2015 14:27:41.3	197.09	345.3	1.6544	18.33	25.3472964
21.05.2015 14:27:41.4	197.11	345.2	1.1934	18.34	21.5280355
21.05.2015 14:27:41.5	194.43	345.2	0.8932	18.39	18.624548
21.05.2015 14:27:41.6	194.1	345.2	0.6166	18.32	15.4743759
21.05.2015 14:27:41.7	194.18	345.2	0.9134	18.31	18.8339705
21.05.2015 14:27:41.8	192.64	345.1	0.9575	18.36	19.2832741
21.05.2015 14:27:41.9	191.47	345.1	0.7812	18.42	17.417768
21.05.2015 14:27:42.0	191.58	345.1	1.0452	18.31	20.1470324
21.05.2015 14:27:42.1	191.58	345.1	1.3651	18.29	23.0246807
21.05.2015 14:27:42.2	188.89	345.1	0.7492	18.36	17.0572992
21.05.2015 14:27:42.3	189.02	345.1	1.8398	18.4	26.7298604
21.05.2015 14:27:42.4	189.03	345.1	1.9412	18.32	27.4565853
21.05.2015 14:27:42.5	187.09	345.1	1.5915	18.32	24.8607774
21.05.2015 14:27:42.6	186.39	345	0.986	18.35	19.5681532
21.05.2015 14:27:42.7	186.47	345	1.4398	18.38	23.6462604
21.05.2015 14:27:42.8	185.28	345	1.7718	18.35	26.2312346
21.05.2015 14:27:42.9	183.73	345	1.3764	18.33	23.119781
21.05.2015 14:27:43.0	183.92	345	1.1654	18.36	21.273987
21.05.2015 14:27:43.1	183.84	345	0.9702	18.36	19.4107367
21.05.2015 14:27:43.2	181.52	345	1.7474	18.33	26.0499893
21.05.2015 14:27:43.3	181.34	345	1.6691	18.37	25.4596578
21.05.2015 14:27:43.4	181.32	345	1.3211	18.38	22.6505749
21.05.2015 14:27:43.5	179.72	345	1.2811	18.33	22.3050345
21.05.2015 14:27:43.6	178.71	345	1.0084	18.3	19.7891801
21.05.2015 14:27:43.7	178.8	345	0.8923	18.39	18.6151624
21.05.2015 14:27:43.8	178.65	345	1.2901	18.4	22.3832462
21.05.2015 14:27:43.9	176.06	345	1.3057	18.33	22.5181696
21.05.2015 14:27:44.0	176.25	345	1.6752	18.3	25.5061386
21.05.2015 14:27:44.1	176.19	345	1.6397	18.38	25.2344348
21.05.2015 14:27:44.2	175.1	344.9	1.0815	18.39	20.4939015
21.05.2015 14:27:44.3	173.47	345	1.4124	18.33	23.4201805
21.05.2015 14:27:44.4	173.66	345	1.1528	18.33	21.1586701
21.05.2015 14:27:44.5	173.64	345	1.3911	18.36	23.2429131
21.05.2015 14:27:44.6	171.3	345	1.7222	18.37	25.8614681
21.05.2015 14:27:44.7	171.07	345	1.512	18.34	24.2318894
21.05.2015 14:27:44.8	171.07	345	1.4235	18.33	23.5120296
21.05.2015 14:27:44.9	170.39	345	1.2929	18.36	22.407523
21.05.2015 14:27:45.0	167.93	345	1.3405	18.33	22.8162776

21.05.2015 14:27:45.1	168.19	345	1.5651	18.34	24.6537183
21.05.2015 14:27:45.2	168.16	345	1.4264	18.32	23.5359671
21.05.2015 14:27:45.3	166.36	345	1.3087	18.4	22.5440238
21.05.2015 14:27:45.4	165.49	345	1.4255	18.31	23.5285408
21.05.2015 14:27:45.5	165.59	345.1	1.5848	18.31	24.8083919
21.05.2015 14:27:45.6	165.4	345	1.4497	18.34	23.7274164
21.05.2015 14:27:45.7	162.84	345	0.812	18.41	17.7578097
21.05.2015 14:27:45.8	163.06	345.1	1.3791	18.28	23.1424462
21.05.2015 14:27:45.9	163.04	345.1	1.4389	18.32	23.6388688
21.05.2015 14:27:46.0	161.61	345.1	1.6176	18.32	25.0638021
21.05.2015 14:27:46.1	159.91	345.2	1.3568	18.38	22.9545774
21.05.2015 14:27:46.2	160.1	345.2	0.8796	18.3	18.482214
21.05.2015 14:27:46.3	160.09	345.2	0.9239	18.32	18.9419143
21.05.2015 14:27:46.4	157.63	345.3	1.1308	18.33	20.9558018
21.05.2015 14:27:46.5	157.54	345.3	1.5822	18.35	24.7880334
21.05.2015 14:27:46.6	157.52	345.4	1.4932	18.33	24.0807702
21.05.2015 14:27:46.7	155.88	345.4	1.2372	18.3	21.9195351
21.05.2015 14:27:46.8	154.87	345.4	1.1519	18.37	21.1504091
21.05.2015 14:27:46.9	154.96	345.5	1.3616	18.32	22.9951451
21.05.2015 14:27:47.0	154.84	345.6	1.1046	18.31	20.7116121
21.05.2015 14:27:47.1	152.25	345.5	1.4391	18.33	23.6405116
21.05.2015 14:27:47.2	152.4	345.5	1.5469	18.39	24.5099544
21.05.2015 14:27:47.3	152.39	345.6	1.838	18.3	26.7167814
21.05.2015 14:27:47.4	150.3	345.6	1.645	18.28	25.2751845
21.05.2015 14:27:47.5	149.82	345.6	1.108	18.34	20.7434631
21.05.2015 14:27:47.6	149.81	345.6	1.2992	18.4	22.46205
21.05.2015 14:27:47.7	148.49	345.7	1.3014	18.29	22.48106
21.05.2015 14:27:47.8	147.12	345.7	1.2798	18.3	22.2937146
21.05.2015 14:27:47.9	147.25	345.8	1.8951	18.33	27.1286042
21.05.2015 14:27:48.0	147.25	345.8	1.5288	18.37	24.3661392
21.05.2015 14:27:48.1	144.78	345.9	0.8347	18.32	18.0043145
21.05.2015 14:27:48.2	144.76	345.9	1.3843	18.32	23.1860353
21.05.2015 14:27:48.3	144.7	345.9	1.2246	18.34	21.807632
21.05.2015 14:27:48.4	142.94	346	1.4377	18.34	23.6290097
21.05.2015 14:27:48.5	142.06	346	1.4081	18.32	23.3845024
21.05.2015 14:27:48.6	142.12	346	1.7705	18.33	26.2216097
21.05.2015 14:27:48.7	141.9	346	1.576	18.34	24.7394186
21.05.2015 14:27:48.8	139.44	346	1.4521	18.33	23.7470489
21.05.2015 14:27:48.9	139.62	346.1	1.3228	18.3	22.6651437
21.05.2015 14:27:49.0	139.58	346	1.2084	18.33	21.6629073
21.05.2015 14:27:49.1	138.36	346.1	1.2986	18.39	22.4568626
21.05.2015 14:27:49.2	136.86	346.1	1.6357	18.3	25.2036367
21.05.2015 14:27:49.3	137.02	346.1	1.5913	18.28	24.8592152
21.05.2015 14:27:49.4	136.97	346.2	1.3177	18.35	22.6214092
21.05.2015 14:27:49.5	134.59	346.2	1.3586	18.4	22.9697987
21.05.2015 14:27:49.6	134.44	346.2	1.3257	18.3	22.6899747
21.05.2015 14:27:49.7	134.46	346.3	1.4676	18.3	23.8734528
21.05.2015 14:27:49.8	132.59	346.3	1.2184	18.33	21.7523573
21.05.2015 14:27:49.9	131.44	346.3	1.0084	18.38	19.7891801
21.05.2015 14:27:50.0	131.51	346.4	1.8625	18.32	26.8942554
21.05.2015 14:27:50.1	131.53	346.4	1.2501	18.31	22.0335137
21.05.2015 14:27:50.2	129.87	346.4	0.9748	18.32	19.4566983
21.05.2015 14:27:50.3	129.27	346.4	1.3754	18.37	23.1113808
21.05.2015 14:27:50.4	129.33	346.4	1.4901	18.31	24.0557605
21.05.2015 14:27:50.5	128.06	346.4	1.736	18.33	25.9648755
21.05.2015 14:27:50.6	126.18	346.4	1.5272	18.36	24.3533854
21.05.2015 14:27:50.7	126.43	346.4	1.6863	18.34	25.5905019
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21.05.2015 14:27:50.9	124.08	346.4	0.7949	18.34	17.5698329
21.05.2015 14:27:51.0	123.8	346.4	1.2776	18.41	22.2745447
21.05.2015 14:27:51.1	123.84	346.4	1.6308	18.31	25.1658576
21.05.2015 14:27:51.2	122.26	346.4	2.0425	18.27	28.1638755
21.05.2015 14:27:51.3	121.16	346.4	2.0535	18.36	28.2396127
21.05.2015 14:27:51.4	121.28	346.4	1.7793	18.41	26.2866942
21.05.2015 14:27:51.5	120.51	346.4	1.5313	18.3	24.3860536
21.05.2015 14:27:51.6	118.46	346.4	1.6836	18.32	25.5700067
21.05.2015 14:27:51.7	118.71	346.4	1.7871	18.33	26.3442483
21.05.2015 14:27:51.8	118.67	346.3	1.4164	18.39	23.4533207
21.05.2015 14:27:51.9	116.67	346.3	1.2113	18.31	21.6888858
21.05.2015 14:27:52.0	116.13	346.3	1.4421	18.34	23.6651397
21.05.2015 14:27:52.1	116.08	346.3	0.9124	18.32	18.8236579

21.05.2015 14:27:52.2	114.94	346.3	1.2613	18.37	22.1319959
21.05.2015 14:27:52.3	113.43	346.3	1.8719	18.32	26.9620373
21.05.2015 14:27:52.4	113.59	346.3	1.8979	18.34	27.148638
21.05.2015 14:27:52.5	113.54	346.2	1.4073	18.38	23.3778586
21.05.2015 14:27:52.6	111.16	346.2	1.3336	18.32	22.7574804
21.05.2015 14:27:52.7	111.03	346.2	1.5916	18.29	24.8615584
21.05.2015 14:27:52.8	110.99	346.2	1.7163	18.36	25.8171314
21.05.2015 14:27:52.9	110.3	346.2	1.5381	18.42	24.4401389
21.05.2015 14:27:53.0	108.23	346.2	1.623	18.28	25.1056022
21.05.2015 14:27:53.1	108.5	346.2	1.1719	18.3	21.3332322
21.05.2015 14:27:53.2	108.41	346.2	1.4298	18.35	23.5640008
21.05.2015 14:27:53.3	106.55	346.2	1.5899	18.4	24.8482775
21.05.2015 14:27:53.4	105.83	346.2	1.3345	18.3	22.7651582
21.05.2015 14:27:53.5	105.81	346.1	0.9895	18.33	19.602853
21.05.2015 14:27:53.6	105.53	346.1	1.1921	18.32	21.5163068
21.05.2015 14:27:53.7	102.78	346.1	1.5381	18.4	24.4401389
21.05.2015 14:27:53.8	102.95	346.1	1.1197	18.3	20.8526965
21.05.2015 14:27:53.9	102.93	346.1	1.3828	18.33	23.1734699
21.05.2015 14:27:54.0	101.81	346	1.4074	18.31	23.3786892
21.05.2015 14:27:54.1	100.58	346	1.4443	18.38	23.683184
21.05.2015 14:27:54.2	100.75	346	1.4144	18.3	23.4367565
21.05.2015 14:27:54.3	100.06	346	1.5091	18.34	24.20864
21.05.2015 14:27:54.4	97.53	346	1.7189	18.35	25.836679
21.05.2015 14:27:54.5	97.81	346	1.2807	18.36	22.301552
21.05.2015 14:27:54.6	97.84	345.9	1.5277	18.25	24.3573716
21.05.2015 14:27:54.7	96.05	345.9	1.7155	18.36	25.8111137
21.05.2015 14:27:54.8	95.17	345.9	1.3797	18.36	23.1474799
21.05.2015 14:27:54.9	95.26	345.9	1.39	18.34	23.2337217
21.05.2015 14:27:55.0	94.28	345.9	1.6187	18.25	25.0723226
21.05.2015 14:27:55.1	92.46	345.8	0.9346	18.37	19.0512849
21.05.2015 14:27:55.2	92.71	345.8	0.9539	18.35	19.2469894
21.05.2015 14:27:55.3	92.69	345.8	0.9444	18.32	19.1509081
21.05.2015 14:27:55.4	90.5	345.8	1.6155	18.28	25.0475276
21.05.2015 14:27:55.5	90.11	345.8	1.4795	18.35	23.970046
21.05.2015 14:27:55.6	90.13	345.7	1.572	18.33	24.7080035
21.05.2015 14:27:55.7	88.71	345.7	1.227	18.34	21.8289911
21.05.2015 14:27:55.8	87.41	345.7	1.0138	18.3	19.8420951
21.05.2015 14:27:55.9	87.56	345.7	1.0646	18.34	20.3331476
21.05.2015 14:27:56.0	87.56	345.7	0.9602	18.32	19.3104429
21.05.2015 14:27:56.1	84.92	345.7	1.3444	18.3	22.8494439
21.05.2015 14:27:56.2	85.05	345.7	1.556	18.32	24.5819414
21.05.2015 14:27:56.3	84.98	345.7	1.5664	18.36	24.6639551
21.05.2015 14:27:56.4	84.1	345.7	1.5744	18.3	24.7268574
21.05.2015 14:27:56.5	82.21	345.7	1.273	18.27	22.2344087
21.05.2015 14:27:56.6	82.42	345.7	1.4149	18.33	23.4408986
21.05.2015 14:27:56.7	82.39	345.7	1.5606	18.39	24.6182504
21.05.2015 14:27:56.8	80.03	345.7	1.7091	18.28	25.7629221
21.05.2015 14:27:56.9	79.47	345.6	1.8911	18.26	27.0999588
21.05.2015 14:27:57.0	79.48	345.5	1.3395	18.33	22.8077657
21.05.2015 14:27:57.1	79.06	345.5	1.5836	18.36	24.7989978
21.05.2015 14:27:57.2	76.77	345.5	1.4455	18.29	23.6930206
21.05.2015 14:27:57.3	76.94	345.4	1.3472	18.29	22.873226
21.05.2015 14:27:57.4	76.89	345.4	1.6456	18.31	25.2797935
21.05.2015 14:27:57.5	75.37	345.3	1.6633	18.35	25.4153841
21.05.2015 14:27:57.6	74.26	345.3	1.6363	18.3	25.2082588
21.05.2015 14:27:57.7	74.33	345.3	1.6708	18.3	25.47262
21.05.2015 14:27:57.8	74.33	345.2	1.7154	18.33	25.8103614
21.05.2015 14:27:57.9	71.32	345.2	1.3916	18.31	23.2470898
21.05.2015 14:27:58.0	71.46	345.2	0.7673	18.29	17.2621141
21.05.2015 14:27:58.1	71.45	345.1	1.5731	18.32	24.7166466
21.05.2015 14:27:58.2	70.35	345.1	1.6249	18.35	25.1202931
21.05.2015 14:27:58.3	68.69	345.1	1.4879	18.29	24.0379958
21.05.2015 14:27:58.4	68.91	345.1	1.259	18.25	22.1118077
21.05.2015 14:27:58.5	68.54	345	1.3145	18.33	22.5939248
21.05.2015 14:27:58.6	66.12	345	1.188	18.37	21.4792743
21.05.2015 14:27:58.7	66.35	345	1.1815	18.28	21.420433
21.05.2015 14:27:58.8	66.33	345	1.3966	18.27	23.2888156
21.05.2015 14:27:58.9	64.84	345	1.3714	18.32	23.0777495
21.05.2015 14:27:59.0	63.67	345	1.5536	18.35	24.5629763
21.05.2015 14:27:59.1	63.74	345	1.2696	18.3	22.2046964
21.05.2015 14:27:59.2	63.04	345.1	1.2769	18.3	22.2684417

21.05.2015 14:27:59.3	60.94	345.1	1.1564	18.32	21.1916818
21.05.2015 14:27:59.4	61.23	345.1	1.165	18.34	21.2703358
21.05.2015 14:27:59.5	61.21	345.1	1.3856	18.3	23.1969198
21.05.2015 14:27:59.6	59.28	345.2	1.7366	18.3	25.9693621
21.05.2015 14:27:59.7	58.57	345.2	1.6313	18.34	25.1697152
21.05.2015 14:27:59.8	58.61	345.2	1.6246	18.33	25.1179741
21.05.2015 14:27:59.9	57.49	345.3	1.7457	18.27	26.0373145
21.05.2015 14:28:00.0	55.86	345.3	1.5801	18.34	24.7715778
21.05.2015 14:28:00.1	56.07	345.3	1.7899	18.35	26.3648781
21.05.2015 14:28:00.2	56.1	345.4	1.406	18.3	23.3670584
21.05.2015 14:28:00.3	53.7	345.4	1.7568	18.27	26.1199622
21.05.2015 14:28:00.4	53.48	345.4	1.5973	18.35	24.906037
21.05.2015 14:28:00.5	53.5	345.4	1.5804	18.37	24.7739293
21.05.2015 14:28:00.6	51.91	345.5	1.3227	18.29	22.6642869
21.05.2015 14:28:00.7	50.82	345.5	1.724	18.27	25.8749795
21.05.2015 14:28:00.8	50.91	345.5	1.5041	18.35	24.1685023
21.05.2015 14:28:00.9	50.91	345.5	1.3313	18.35	22.7378475
21.05.2015 14:28:01.0	48.24	345.6	1.8084	18.3	26.5007785
21.05.2015 14:28:01.1	48.35	345.6	1.2674	18.3	22.1854496
21.05.2015 14:28:01.2	48.37	345.6	1.3867	18.34	23.2061257
21.05.2015 14:28:01.3	48.12	345.6	1.4254	18.34	23.5277155
21.05.2015 14:28:01.4	45.63	345.7	1.5328	18.3	24.3979945
21.05.2015 14:28:01.5	45.8	345.7	1.7078	18.31	25.7531222
21.05.2015 14:28:01.6	45.76	345.7	1.3505	18.36	22.9012231
21.05.2015 14:28:01.7	43.26	345.8	1.4476	18.32	23.7102247
21.05.2015 14:28:01.8	42.87	345.8	1.6861	18.3	25.5889843
21.05.2015 14:28:01.9	42.89	345.8	1.2531	18.32	22.059936
21.05.2015 14:28:02.0	42.29	345.8	1.3447	18.4	22.8519932
21.05.2015 14:28:02.1	40.14	345.8	1.5156	18.29	24.2607198
21.05.2015 14:28:02.2	40.32	345.9	1.4518	18.31	23.7445957
21.05.2015 14:28:02.3	40.26	345.9	1.6827	18.34	25.5631713
21.05.2015 14:28:02.4	37.69	345.9	1.4372	18.4	23.6249005
21.05.2015 14:28:02.5	37.76	345.9	1.5539	18.28	24.5653478
21.05.2015 14:28:02.6	37.71	346	1.4204	18.31	23.4864142
21.05.2015 14:28:02.7	36.85	346	1.5485	18.35	24.5226268
21.05.2015 14:28:02.8	35.02	346	1.3775	18.37	23.1290176
21.05.2015 14:28:02.9	35.17	346	1.4805	18.32	23.9781454
21.05.2015 14:28:03.0	35.17	346.1	1.8621	18.33	26.8913672
21.05.2015 14:28:03.1	33.07	346	1.6671	18.35	25.4443997
21.05.2015 14:28:03.2	32.61	346	1.6122	18.36	25.0219321
21.05.2015 14:28:03.3	32.57	346	2.1144	18.33	28.6552999
21.05.2015 14:28:03.4	32.1	346	1.4209	18.33	23.4905476
21.05.2015 14:28:03.5	29.46	346	1.3654	18.38	23.0272106
21.05.2015 14:28:03.6	29.73	346	1.5001	18.33	24.1363441
21.05.2015 14:28:03.7	29.69	346.1	1.5773	18.31	24.74962
21.05.2015 14:28:03.8	28.06	346	1.141	18.35	21.050102
21.05.2015 14:28:03.9	27	346	1.285	18.4	22.3389598
21.05.2015 14:28:04.0	27.12	346	1.1412	18.33	21.0519468
21.05.2015 14:28:04.1	27.05	346	1.5986	18.28	24.9161701
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21.05.2015 14:28:04.3	24.61	346	1.7166	18.39	25.8193876
21.05.2015 14:28:04.4	24.59	346	1.6739	18.35	25.49624
21.05.2015 14:28:04.5	23.31	346	1.5341	18.3	24.4083385
21.05.2015 14:28:04.6	21.42	346	1.4475	18.36	23.7094058
21.05.2015 14:28:04.7	21.66	346	1.7274	18.37	25.9004817
21.05.2015 14:28:04.8	21.59	346.1	1.7244	18.34	25.877981
21.05.2015 14:28:04.9	19.36	346.1	1.4981	18.34	24.1202489
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21.05.2015 14:28:05.1	19.08	346.1	1.4051	18.37	23.3595784
21.05.2015 14:28:05.2	18.48	346.2	1.5628	18.33	24.6355966
21.05.2015 14:28:05.3	16.32	346.2	1.2648	18.36	22.1626818
21.05.2015 14:28:05.4	16.52	346.2	1.5824	18.38	24.7896001
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21.05.2015 14:28:05.6	14.49	346.3	1.5075	18.28	24.1958032
21.05.2015 14:28:05.7	13.52	346.3	1.2655	18.37	22.1688139
21.05.2015 14:28:05.8	13.56	346.3	1.4283	18.4	23.5516371
21.05.2015 14:28:05.9	13.42	346.3	1.6083	18.32	24.9916491
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21.05.2015 14:28:06.3	9.79	346.4	1.4797	18.34	23.9716661

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21.05.2015 14:28:06.7	5.68	346.6	1.4613	18.35	23.8221566
21.05.2015 14:28:06.8	5.49	346.6	1.7577	18.32	26.1266519
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21.05.2015 14:28:07.0	4.83	346.6	1.4184	18.34	23.4698733
21.05.2015 14:28:07.1	2.69	346.7	1.7618	18.33	26.1571056
21.05.2015 14:28:07.2	2.96	346.7	1.72	18.33	25.8449447
21.05.2015 14:28:07.3	2.86	346.7	1.4422	18.41	23.6659602
21.05.2015 14:28:07.4	0.25	346.7	1.483	18.31	23.9983818
21.05.2015 14:28:07.5	0.42	346.8	1.9151	18.3	27.2713798
21.05.2015 14:28:07.6	0.39	346.7	1.4484	18.36	23.7167754
21.05.2015 14:28:07.7	-0.7	346.7	1.4057	18.4	23.3645653
21.05.2015 14:28:07.8	-2.33	346.8	1.7634	18.31	26.1689804
21.05.2015 14:28:07.9	-2.18	346.8	1.4767	18.28	23.9473533
21.05.2015 14:28:08.0	-2.62	346.8	1.535	18.35	24.4154972
21.05.2015 14:28:08.1	-4.92	346.8	1.7804	18.4	26.2948184
21.05.2015 14:28:08.2	-4.72	346.8	1.6006	18.3	24.9317515
21.05.2015 14:28:08.3	-4.74	346.9	1.6297	18.31	25.1573688
21.05.2015 14:28:08.4	-6.29	346.8	1.5834	18.33	24.7974317
21.05.2015 14:28:08.5	-7.35	346.9	1.248	18.36	22.0149993
21.05.2015 14:28:08.6	-7.31	346.9	1.52	18.31	24.2959104
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21.05.2015 14:28:08.8	-10.11	346.9	1.3501	18.34	22.8978313
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21.05.2015 14:28:09.2	-12.46	346.9	1.187	18.35	21.4702323
21.05.2015 14:28:09.3	-12.41	347	1.5927	18.34	24.8701482
21.05.2015 14:28:09.4	-13.65	347	1.772	18.25	26.2327151
21.05.2015 14:28:09.5	-15.15	347	1.3651	18.36	23.0246807
21.05.2015 14:28:09.6	-14.99	347	1.4945	18.38	24.0912505
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21.05.2015 14:28:09.8	-17.38	347	1.6762	18.28	25.5137503
21.05.2015 14:28:09.9	-17.52	347	1.3999	18.33	23.3163137
21.05.2015 14:28:10.0	-17.57	347	1.7042	18.36	25.7259644
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21.05.2015 14:28:10.2	-20.18	347	1.8069	18.3	26.4897855
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21.05.2015 14:28:10.4	-20.14	347	1.846	18.35	26.7748614
21.05.2015 14:28:10.5	-22.28	347	1.4646	18.31	23.8490398
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21.05.2015 14:28:10.7	-23.05	347	1.4544	18.34	23.7658481
21.05.2015 14:28:10.8	-23.31	347.1	1.1875	18.33	21.4747537
21.05.2015 14:28:10.9	-25.75	347.1	1.3469	18.29	22.8706791
21.05.2015 14:28:11.0	-25.61	347.1	1.2574	18.33	22.0977528
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21.05.2015 14:28:12.3	-35.69	347.3	1.3957	18.32	23.2813105
21.05.2015 14:28:12.4	-36.25	347.3	1.4597	18.32	23.8091114
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21.05.2015 14:28:13.7	-46.18	347.7	1.4736	18.31	23.922204
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21.05.2015 14:28:16.1	-64.63	347.8	1.5584	18.33	24.6008919
21.05.2015 14:28:16.2	-64.82	347.9	1.7912	18.31	26.3744507
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21.05.2015 14:28:16.4	-65.46	347.9	1.4521	18.36	23.7470489
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21.05.2015 14:28:16.8	-69.3	348	1.5701	18.38	24.6930673
21.05.2015 14:28:16.9	-69.96	348.1	1.4523	18.29	23.7486842
21.05.2015 14:28:17.0	-69.92	348.1	1.9532	18.27	27.5413194
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21.05.2015 14:28:17.3	-72.81	348.2	1.5041	18.32	24.1685023
21.05.2015 14:28:17.4	-72.89	348.2	1.6896	18.29	25.6155293
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21.05.2015 14:28:19.0	-86.18	348.2	1.6381	18.34	25.22212
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21.05.2015 14:28:19.8	-91.14	348.4	1.4142	18.34	23.4350994
21.05.2015 14:28:19.9	-91.28	348.5	2.0002	18.32	27.870714
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21.05.2015 14:28:20.5	-96.26	348.7	1.9698	18.35	27.6581068

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21.05.2015 14:28:21.5	-103.98	349.3	1.2797	18.29	22.2928436
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21.05.2015 14:28:21.7	-105.01	349.3	1.1756	18.31	21.366883
21.05.2015 14:28:21.8	-106.7	349.4	1.4248	18.34	23.5227632
21.05.2015 14:28:21.9	-106.54	349.4	1.8787	18.25	27.0109651
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21.05.2015 14:28:22.4	-111.02	349.5	1.2688	18.35	22.1976995
21.05.2015 14:28:22.5	-112.08	349.5	1.7313	18.35	25.9297033
21.05.2015 14:28:22.6	-112.03	349.5	1.3476	18.3	22.8766214
21.05.2015 14:28:22.7	-112.06	349.6	1.7351	18.26	25.9581441
21.05.2015 14:28:22.8	-113.75	349.6	1.646	18.35	25.2828658
21.05.2015 14:28:22.9	-114.58	349.6	1.3879	18.35	23.2161644
21.05.2015 14:28:23.0	-114.62	349.6	1.7844	18.32	26.3243399
21.05.2015 14:28:23.1	-115.7	349.6	1.6798	18.29	25.5411338
21.05.2015 14:28:23.2	-117.68	349.6	1.4113	18.33	23.4110587
21.05.2015 14:28:23.3	-117.49	349.6	1.4269	18.33	23.5400918
21.05.2015 14:28:23.4	-117.55	349.7	1.8809	18.31	27.0267756
21.05.2015 14:28:23.5	-118.7	349.7	1.7834	18.32	26.3169627
21.05.2015 14:28:23.6	-120.17	349.7	1.6283	18.35	25.1465607
21.05.2015 14:28:23.7	-120.09	349.7	1.8723	18.3	26.9649179
21.05.2015 14:28:23.8	-120.05	349.8	1.4976	18.28	24.1162234
21.05.2015 14:28:23.9	-122.48	349.7	1.5762	18.32	24.7409884
21.05.2015 14:28:24.0	-122.63	349.7	1.3958	18.38	23.2821445
21.05.2015 14:28:24.1	-122.67	349.7	1.5563	18.3	24.584311
21.05.2015 14:28:24.2	-122.65	349.8	1.4268	18.25	23.5392669
21.05.2015 14:28:24.3	-125.66	349.7	1.5399	18.32	24.4544355
21.05.2015 14:28:24.4	-125.52	349.7	1.7082	18.38	25.7561379
21.05.2015 14:28:24.5	-125.57	349.7	1.5221	18.31	24.312688
21.05.2015 14:28:24.6	-127.74	349.8	1.8341	18.26	26.6884215
21.05.2015 14:28:24.7	-128.54	349.7	1.4669	18.32	23.8677586
21.05.2015 14:28:24.8	-128.46	349.7	1.8404	18.35	26.7342186
21.05.2015 14:28:24.9	-128.52	349.7	1.8214	18.32	26.5958607
21.05.2015 14:28:25.0	-130.67	349.8	1.3526	18.28	22.9190217
21.05.2015 14:28:25.1	-131.09	349.7	1.4229	18.31	23.5070739
21.05.2015 14:28:25.2	-131.06	349.7	1.2631	18.32	22.1477825
21.05.2015 14:28:25.3	-131.6	349.8	1.6657	18.3	25.4337136
21.05.2015 14:28:25.4	-133.8	349.7	1.4029	18.3	23.3412839
21.05.2015 14:28:25.5	-133.57	349.7	1.569	18.35	24.6844159
21.05.2015 14:28:25.6	-133.63	349.7	1.4829	18.29	23.9975727
21.05.2015 14:28:25.7	-134.39	349.8	1.8723	18.29	26.9649179
21.05.2015 14:28:25.8	-136.77	349.8	1.6084	18.31	24.992426
21.05.2015 14:28:25.9	-136.59	349.7	1.6912	18.36	25.627655
21.05.2015 14:28:26.0	-136.66	349.8	1.4536	18.26	23.7593109
21.05.2015 14:28:26.1	-139.64	349.8	1.5991	18.27	24.9200664
21.05.2015 14:28:26.2	-139.44	349.8	1.6999	18.32	25.6934883
21.05.2015 14:28:26.3	-139.47	349.7	1.6264	18.36	25.1318851
21.05.2015 14:28:26.4	-139.76	349.7	1.5726	18.26	24.7127183
21.05.2015 14:28:26.5	-142.2	349.7	1.7538	18.29	26.0976508
21.05.2015 14:28:26.6	-142.03	349.7	1.6438	18.31	25.2659639
21.05.2015 14:28:26.7	-142.05	349.6	1.5615	18.34	24.6253481
21.05.2015 14:28:26.8	-143.41	349.6	1.4403	18.27	23.6503659
21.05.2015 14:28:26.9	-144.71	349.6	1.4401	18.3	23.6487238
21.05.2015 14:28:27.0	-144.58	349.4	1.2483	18.3	22.0176452
21.05.2015 14:28:27.1	-144.59	349.4	1.4028	18.33	23.340452
21.05.2015 14:28:27.2	-146.4	349.4	1.3619	18.25	22.9976782
21.05.2015 14:28:27.3	-147.62	349.4	1.1654	18.32	21.273987
21.05.2015 14:28:27.4	-147.57	349.3	1.3387	18.33	22.8009538
21.05.2015 14:28:27.5	-148.45	349.3	1.5264	18.3	24.347006
21.05.2015 14:28:27.6	-150.69	349.3	1.7454	18.24	26.0350772

21.05.2015 14:28:27.7	-150.44	349.3	2.034	18.34	28.1052115
21.05.2015 14:28:27.8	-150.46	349.2	1.6378	18.35	25.2198104
21.05.2015 14:28:27.9	-151.46	349.2	1.8146	18.28	26.5461679
21.05.2015 14:28:28.0	-153.22	349.2	1.2106	18.23	21.682618
21.05.2015 14:28:28.1	-153.05	349.2	1.1809	18.33	21.4149934
21.05.2015 14:28:28.2	-153.01	349.1	1.1399	18.34	21.0399527
21.05.2015 14:28:28.3	-155.28	349.1	1.1273	18.28	20.923346
21.05.2015 14:28:28.4	-155.64	349	1.0603	18.26	20.2920425
21.05.2015 14:28:28.5	-155.57	349	1.5499	18.31	24.5337097
21.05.2015 14:28:28.6	-155.57	348.9	1.6286	18.32	25.1488771
21.05.2015 14:28:28.7	-158.42	348.9	2.2448	18.28	29.5257005
21.05.2015 14:28:28.8	-158.53	348.8	1.7022	18.28	25.7108643
21.05.2015 14:28:28.9	-158.5	348.8	1.8186	18.29	26.5754102
21.05.2015 14:28:29.0	-160.5	348.7	1.3133	18.31	22.5836095
21.05.2015 14:28:29.1	-161.55	348.6	1.3482	18.25	22.8817136
21.05.2015 14:28:29.2	-161.43	348.6	1.3263	18.31	22.6951087
21.05.2015 14:28:29.3	-161.44	348.5	1.3762	18.33	23.1181012
21.05.2015 14:28:29.4	-163.39	348.5	1.4932	18.27	24.0807702
21.05.2015 14:28:29.5	-164.03	348.5	1.7835	18.24	26.3177005
21.05.2015 14:28:29.6	-163.98	348.5	1.5995	18.31	24.923183
21.05.2015 14:28:29.7	-164.38	348.4	1.9734	18.34	27.6833692
21.05.2015 14:28:29.8	-167.12	348.4	1.9009	18.25	27.1700863
21.05.2015 14:28:29.9	-166.94	348.4	1.5116	18.22	24.228684
21.05.2015 14:28:30.0	-166.95	348.4	1.5616	18.31	24.6261366
21.05.2015 14:28:30.1	-167.46	348.3	1.4986	18.32	24.1242737
21.05.2015 14:28:30.2	-169.69	348.3	1.6073	18.26	24.9838783
21.05.2015 14:28:30.3	-169.48	348.3	1.7823	18.24	26.3088453
21.05.2015 14:28:30.4	-169.49	348.3	1.7866	18.29	26.3405627
21.05.2015 14:28:30.5	-172.42	348.3	1.9144	18.3	27.2663953
21.05.2015 14:28:30.6	-172.44	348.3	1.6858	18.27	25.5867077
21.05.2015 14:28:30.7	-172.44	348.3	1.2095	18.27	21.6727649
21.05.2015 14:28:30.8	-173.31	348.3	1.581	18.29	24.7786316
21.05.2015 14:28:30.9	-175.18	348.3	1.5055	18.28	24.1797476
21.05.2015 14:28:31.0	-174.99	348.3	1.5678	18.24	24.6749745
21.05.2015 14:28:31.1	-174.97	348.3	1.6064	18.3	24.9768825
21.05.2015 14:28:31.2	-176.11	348.2	1.5182	18.32	24.2815204
21.05.2015 14:28:31.3	-177.73	348.3	1.5422	18.26	24.4726913
21.05.2015 14:28:31.4	-177.56	348.3	1.5503	18.21	24.5368754
21.05.2015 14:28:31.5	-178.02	348.3	1.5206	18.31	24.3007052
21.05.2015 14:28:31.6	-180.7	348.3	1.5675	18.34	24.6726136
21.05.2015 14:28:31.7	-180.5	348.3	1.8967	18.27	27.1400539
21.05.2015 14:28:31.8	-180.5	348.4	1.5399	18.24	24.4544355
21.05.2015 14:28:31.9	-181.06	348.4	2.2463	18.3	29.5355636
21.05.2015 14:28:32.0	-183.23	348.3	1.5511	18.32	24.5432054
21.05.2015 14:28:32.1	-183.06	348.4	1.5467	18.28	24.5083699
21.05.2015 14:28:32.2	-183.06	348.4	1.8334	18.27	26.6833281
21.05.2015 14:28:32.3	-184.84	348.4	1.362	18.29	22.9985225
21.05.2015 14:28:32.4	-185.69	348.4	1.5525	18.31	24.5542791
21.05.2015 14:28:32.5	-185.61	348.4	1.6208	18.29	25.0885809
21.05.2015 14:28:32.6	-185.6	348.4	1.017	18.29	19.8733856
21.05.2015 14:28:32.7	-187.93	348.3	0.8844	18.31	18.5325743
21.05.2015 14:28:32.8	-188.56	348.3	1.1926	18.31	21.5208186
21.05.2015 14:28:32.9	-188.51	348.3	1.0737	18.25	20.4198647
21.05.2015 14:28:33.0	-190	348.3	1.5301	18.34	24.3764967
21.05.2015 14:28:33.1	-191.63	348.2	1.1718	18.33	21.332322
21.05.2015 14:28:33.2	-191.47	348.2	1.4544	18.3	23.7658481
21.05.2015 14:28:33.3	-191.5	348.3	1.134	18.23	20.9854318
21.05.2015 14:28:33.4	-193.93	348.2	2.0616	18.35	28.2952533
21.05.2015 14:28:33.5	-194	348.2	1.1916	18.35	21.511794
21.05.2015 14:28:33.6	-194.04	348.2	1.8352	18.29	26.6964235
21.05.2015 14:28:33.7	-194.78	348.2	2.0103	18.26	27.9409919
21.05.2015 14:28:33.8	-196.81	348.2	1.2227	18.34	21.7907079
21.05.2015 14:28:33.9	-196.54	348.2	1.7675	18.33	26.1993849
21.05.2015 14:28:34.0	-196.64	348.2	1.4778	18.3	23.9562708
21.05.2015 14:28:34.1	-198.86	348.2	1.5998	18.29	24.9252501
21.05.2015 14:28:34.2	-199.5	348.2	1.3462	18.31	22.8647352
21.05.2015 14:28:34.3	-199.55	348.2	0.9531	18.34	19.2389169
21.05.2015 14:28:34.4	-199.53	348.2	1.8018	18.3	26.4523752
21.05.2015 14:28:34.5	-201.66	348.2	1.6029	18.31	24.9496581
21.05.2015 14:28:34.6	-202.1	348.1	1.1514	18.33	21.1458183
21.05.2015 14:28:34.7	-202.13	348.2	1.3722	18.33	23.0844797

21.05.2015 14:28:34.8	-202.63	348.2	1.9613	18.26	27.5983678
21.05.2015 14:28:34.9	-204.84	348.2	1.4917	18.35	24.068672
21.05.2015 14:28:35.0	-204.64	348.2	1.0076	18.37	19.7813288
21.05.2015 14:28:35.1	-204.67	348.2	1.5008	18.3	24.1419749
21.05.2015 14:28:35.2	-205.42	348.3	1.5275	18.27	24.3557772
21.05.2015 14:28:35.3	-207.83	348.2	1.3634	18.36	23.0103396
21.05.2015 14:28:35.4	-207.54	348.2	1.7769	18.35	26.2689599
21.05.2015 14:28:35.5	-207.73	348.2	1.4134	18.32	23.4284699
21.05.2015 14:28:35.6	-210.68	348.3	1.2547	18.28	22.0740149
21.05.2015 14:28:35.7	-210.5	348.2	1.4344	18.36	23.6018759
21.05.2015 14:28:35.8	-210.49	348.2	1.6893	18.34	25.6132551
21.05.2015 14:28:35.9	-211.67	348.2	2.0907	18.33	28.4942508
21.05.2015 14:28:36.0	-213.23	348.3	1.2101	18.31	21.6781399
21.05.2015 14:28:36.1	-213.03	348.2	1.454	18.35	23.7625797
21.05.2015 14:28:36.2	-213.07	348.2	1.8543	18.34	26.8349866
21.05.2015 14:28:36.3	-214.49	348.3	1.9376	18.31	27.4311141
21.05.2015 14:28:36.4	-215.74	348.3	1.4223	18.34	23.5021172
21.05.2015 14:28:36.5	-215.64	348.2	1.7589	18.38	26.1355689
21.05.2015 14:28:36.6	-216.14	348.2	1.4138	18.32	23.4317849
21.05.2015 14:28:36.7	-217.69	348.3	1.2561	18.29	22.0863267
21.05.2015 14:28:36.8	-217.5	348.2	1.3528	18.35	22.920716
21.05.2015 14:28:36.9	-217.52	348.2	1.0749	18.4	20.4312724
21.05.2015 14:28:37.0	-217.55	348.3	1.2878	18.32	22.3632848
21.05.2015 14:28:37.1	-217.53	348.3	1.4315	18.3	23.5780052
21.05.2015 14:28:37.2	-217.54	348.2	1.4283	18.36	23.5516371
21.05.2015 14:28:37.3	-217.56	348.2	1.8861	18.4	27.0641094
21.05.2015 14:28:37.4	-217.56	348.2	1.3895	18.32	23.2295426
21.05.2015 14:28:37.5	-217.55	348.3	1.3797	18.31	23.1474799
21.05.2015 14:28:37.6	-217.53	348.2	1.7418	18.36	26.0082138
21.05.2015 14:28:37.7	-217.52	348.2	1.8209	18.38	26.59221
21.05.2015 14:28:37.8	-217.54	348.3	1.279	18.34	22.2867456
21.05.2015 14:28:37.9	-217.54	348.3	1.8168	18.33	26.5622551
21.05.2015 14:28:38.0	-217.54	348.3	2.0153	18.36	27.9757176
21.05.2015 14:28:38.1	-217.55	348.3	1.6155	18.36	25.0475276
21.05.2015 14:28:38.2	-217.55	348.3	1.518	18.32	24.279921
21.05.2015 14:28:38.3	-217.54	348.4	1.5478	18.35	24.5170834
21.05.2015 14:28:38.4	-217.53	348.4	1.591	18.38	24.8568718
21.05.2015 14:28:38.5	-217.52	348.5	1.3751	18.34	23.1088602
21.05.2015 14:28:38.6	-217.53	348.5	1.4443	18.29	23.683184
21.05.2015 14:28:38.7	-217.53	348.5	1.3498	18.37	22.8952872
21.05.2015 14:28:38.8	-217.53	348.5	1.7854	18.4	26.3317152
21.05.2015 14:28:38.9	-217.56	348.5	1.3899	18.32	23.232886
21.05.2015 14:28:39.0	-217.57	348.5	2.1185	18.28	28.683069
21.05.2015 14:28:39.1	-217.51	348.5	1.5581	18.36	24.5985239
21.05.2015 14:28:39.2	-217.52	348.6	1.5088	18.39	24.2062337
21.05.2015 14:28:39.3	-217.55	348.6	1.3417	18.33	22.8264878
21.05.2015 14:28:39.4	-217.54	348.6	1.4083	18.31	23.386163
21.05.2015 14:28:39.5	-217.49	348.6	1.5802	18.34	24.7723617
21.05.2015 14:28:39.6	-217.57	348.7	1.2932	18.37	22.4101225
21.05.2015 14:28:39.7	-217.57	348.7	1.2326	18.33	21.8787479
21.05.2015 14:28:39.8	-217.54	348.7	1.5862	18.31	24.8193473
21.05.2015 14:28:39.9	-217.52	348.7	1.1741	18.37	21.3532472
21.05.2015 14:28:40.0	-217.57	348.7	0.792	18.33	17.537754
21.05.2015 14:28:40.1	-217.51	348.8	1.0027	18.3	19.7331715
21.05.2015 14:28:40.2	-217.49	348.7	1.0737	18.33	20.4198647
21.05.2015 14:28:40.3	-217.5	348.7	1.0128	18.39	19.8323067
21.05.2015 14:28:40.4	-217.51	348.7	1.3609	18.31	22.9892334
21.05.2015 14:28:40.5	-217.5	348.7	1.3474	18.27	22.8749237

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

$$y = 1.86222418E-14x^6 - 4.36232832E-12x^5 - 1.88003232E-09x^4 + 2.79526687E-07x^3 + 1.81936882E-05x^2 - 1.05460721E-02x + 2.41652620E+01$$

Please enter below Polynomial Coefficients

Order no	Coeff
6	1.86222418E-14
5	-4.36232832E-12
4	-1.88003232E-09
3	2.79526687E-07
2	1.81936882E-05
1	-1.05460721E-02
0	2.41652620E+01

Actual Area	0.274324656	[m ²]
Integrated area	0.274324656	[m ²]
Area Error	0	[%]
Integrated Mass flow	2.977071926	[Kg/s]

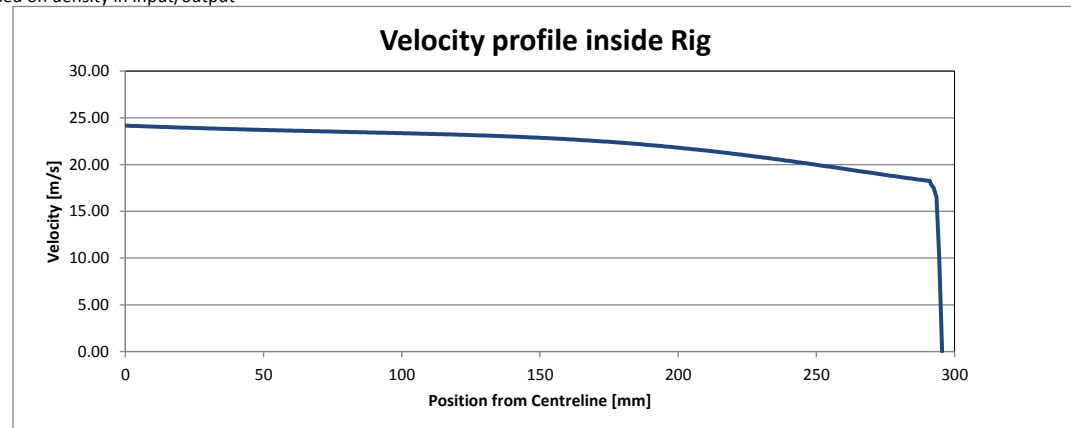
Polynomial curve (dP vs position)

Please do NOT alter any of the figures below

position [mm]	Velocity [m/s]
0	24.165262
1	24.154734
2	24.144245
3	24.133795
4	24.123386
5	24.113020
6	24.102698
7	24.092422
8	24.082193
9	24.072012
10	24.061881
11	24.051800
12	24.041772
13	24.031797
14	24.021876
15	24.012010
16	24.002200
17	23.992447
18	23.982753
19	23.973117
20	23.963541
21	23.954025
22	23.944570
23	23.935176
24	23.925845
25	23.916576
26	23.907371
27	23.898229
28	23.889150
29	23.880136
30	23.871186
31	23.862301
32	23.853480
33	23.844724

Delta Area [m ²]	Delta Mass flow [Kg/s]
0	0
3.14159E-06	3.90804E-05
9.42478E-06	0.00011719
1.5708E-05	0.000195233
2.19911E-05	0.000273208
2.82743E-05	0.000351116
3.45575E-05	0.000428959
4.08407E-05	0.000506735
4.71239E-05	0.000584446
5.34071E-05	0.000662092
5.96903E-05	0.000739674
6.59734E-05	0.000817192
7.22566E-05	0.000894646
7.85398E-05	0.000972038
8.4823E-05	0.001049368
9.11062E-05	0.001126636
9.73894E-05	0.001203843
0.000103673	0.00128099
0.000109956	0.001358076
0.000116239	0.001435104
0.000122522	0.001512073
0.000128805	0.001588984
0.000135088	0.001665837
0.000141372	0.001742634
0.000147655	0.001819375
0.000153938	0.001896061
0.000160221	0.001972691
0.000166504	0.002049268
0.000172788	0.002125791
0.000179071	0.002202261
0.000185354	0.002278679
0.000191637	0.002355045
0.00019792	0.002431361
0.000204204	0.002507626

Based on density in input/output



34	23.836032
35	23.827405
36	23.818843
37	23.810345
38	23.801911
39	23.793542
40	23.785235
41	23.776992
42	23.768812
43	23.760694
44	23.752638
45	23.744643
46	23.736709
47	23.728834
48	23.721018
49	23.713261
50	23.705561
51	23.697917
52	23.690329
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60	23.631484
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63	23.610184
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67	23.582328
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70	23.561783
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73	23.541479
74	23.534754
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76	23.521359
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80	23.494715
81	23.488071
82	23.481429
83	23.474786

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276	18.853055
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0.00183469	0.016535145
0.001840973	0.015643671
0.001847256	0.009513371
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:

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

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

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

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