



Rig Mass Flow Rate Calculations

Please Enter Parameters in highlighted boxes below

Engine Data File		
Ambient Conditions		
Air Temperature	10	[C]
Atmospheric Pressure	975	[mBar]
Air Humidity	73	[%]
Viper Engine Parameters		
Engine Air Intake Mass Flow	18.3	[Kg/s]
Butane Flow Rate	1690	[Ltr/h]
Engine Speed	12130	[RPM]
ETC	650	[C]
Gas Delivery System Data File		
Gas Delivery System		
Mixed Gas (Fuel) Mass Flow rate	0.23	[Kg/s]
Oxygen Mass Flow rate	0.152	[Kg/s]

Please do not change anything in this box

Test Date and Time = 09.09.2014 14:41:05.2

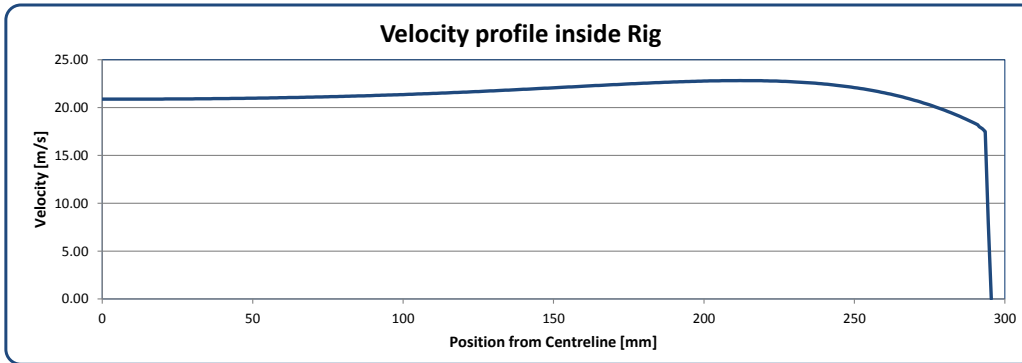
Calculated Parameters		
Air density	1.196065	[Kg/m3]
Liquid Butane density	584	[Kg/m3]
Butane mass Flow rate	0.274156	[Kg/s]
Air Fuel Ratio	79.46479	[]
Calculated Exhaust gas properties (Reaction Engines)		
Exhaust products density	0.389	[Kg/m3]
Pitot Traverse Results		
Rig Gas flow rate - Integrated	2.284109	[Kg/s]
Total Rig Mass flow	2.666109	[Kg/s]
Rig Gas Temperature as read from TC 8?		
Gas Temperature	508	[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



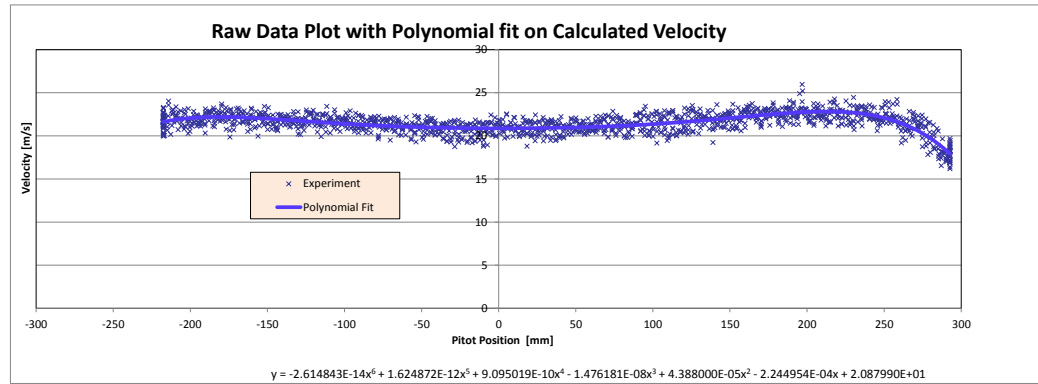
Data Acquisition Parameters

Sampling Rate	1000	[Hz]	
No of samples recorded	100	Samples	
Averaged samples sampling rate	10	[Hz]	
Pitot Traverse speed	7	[mm/s]	Averaged Pitot dp
Distance Travelled every 0.1sec	0.7	[mm]	0.900861485
			Average Vel 21.4868657 [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 %
09.09.2014 14:41:05.2	-217.48	506.1	0.7829	16.65
09.09.2014 14:41:05.3	-217.44	506.3	0.7946	16.54
09.09.2014 14:41:05.4	-217.45	506.4	0.9559	16.68
09.09.2014 14:41:05.5	-217.44	506.4	0.7755	16.77
09.09.2014 14:41:05.6	-217.44	506.3	0.9146	16.62
09.09.2014 14:41:05.7	-217.44	506.4	0.8961	16.55
09.09.2014 14:41:05.8	-217.44	506.5	0.9171	16.76
09.09.2014 14:41:05.9	-217.44	506.4	0.7864	16.89
09.09.2014 14:41:06.0	-217.49	506.4	0.8039	16.6
09.09.2014 14:41:06.1	-217.47	506.6	0.8076	16.6
09.09.2014 14:41:06.2	-217.43	506.6	0.8867	16.69
09.09.2014 14:41:06.3	-217.45	506.5	0.8675	16.73
09.09.2014 14:41:06.4	-217.45	506.4	0.9709	16.6
09.09.2014 14:41:06.5	-217.44	506.7	0.9485	16.61
09.09.2014 14:41:06.6	-217.44	506.9	0.9913	16.7
09.09.2014 14:41:06.7	-217.48	506.8	0.8704	16.65
09.09.2014 14:41:06.8	-217.47	507	0.9569	16.66
09.09.2014 14:41:06.9	-216.75	507.3	0.9289	16.6
09.09.2014 14:41:07.0	-214.6	507.4	0.9014	16.67
09.09.2014 14:41:07.1	-214.86	507.4	0.863	16.63
09.09.2014 14:41:07.2	-214.84	507.5	0.8293	16.59
09.09.2014 14:41:07.3	-212.65	507.7	0.7921	16.66
09.09.2014 14:41:07.4	-211.87	507.7	0.8744	16.69
09.09.2014 14:41:07.5	-211.97	507.7	1.0204	16.62
09.09.2014 14:41:07.6	-210.85	507.7	0.9945	16.56
09.09.2014 14:41:07.7	-209.18	507.8	1.0614	16.67
09.09.2014 14:41:07.8	-209.39	507.8	0.9776	16.69
09.09.2014 14:41:07.9	-209.41	507.8	0.9652	16.57
09.09.2014 14:41:08.0	-207.93	507.9	1.1012	16.51
09.09.2014 14:41:08.1	-206.72	508	0.9439	16.65
09.09.2014 14:41:08.2	-206.86	507.9	0.9352	16.69
09.09.2014 14:41:08.3	-206.14	507.9	1.0202	16.58
09.09.2014 14:41:08.4	-203.69	508.1	1.0329	16.56
09.09.2014 14:41:08.5	-203.96	508.2	0.84	16.68
09.09.2014 14:41:08.6	-203.91	508.1	0.998	16.71
09.09.2014 14:41:08.7	-202.11	508.1	0.9182	16.62
09.09.2014 14:41:08.8	-201.34	508.3	1.0437	16.54
09.09.2014 14:41:08.9	-201.34	508.4	0.8929	16.72
09.09.2014 14:41:09.0	-201.38	508.3	0.8002	16.62
09.09.2014 14:41:09.1	-199.38	508.4	0.9474	16.6
09.09.2014 14:41:09.2	-198.8	508.6	0.8963	16.61
09.09.2014 14:41:09.3	-198.8	508.7	0.8683	16.64
09.09.2014 14:41:09.4	-197.4	508.6	0.904	16.6
09.09.2014 14:41:09.5	-195.75	508.6	0.8693	16.6
09.09.2014 14:41:09.6	-195.91	508.6	0.9217	16.66
09.09.2014 14:41:09.7	-195.93	508.6	0.9788	16.73
09.09.2014 14:41:09.8	-194.46	508.5	0.8775	16.58
09.09.2014 14:41:09.9	-193.26	508.6	0.8681	16.51
09.09.2014 14:41:10.0	-193.37	508.7	0.9169	16.74
09.09.2014 14:41:10.1	-193.36	508.6	0.8953	16.71
09.09.2014 14:41:10.2	-190.28	508.5	0.8042	16.62
09.09.2014 14:41:10.3	-190.48	508.6	0.8777	16.55
09.09.2014 14:41:10.4	-190.45	508.6	0.8942	16.69
09.09.2014 14:41:10.5	-190.24	508.3	1.0404	16.86
09.09.2014 14:41:10.6	-187.8	508.3	0.9217	16.54
09.09.2014 14:41:10.7	-187.96	508.4	1.0161	16.64
09.09.2014 14:41:10.8	-187.89	508.5	0.9991	16.68
09.09.2014 14:41:10.9	-185.39	508.2	0.8705	16.63
09.09.2014 14:41:11.0	-185.01	508.2	1.0274	16.67
09.09.2014 14:41:11.1	-184.97	508.4	1.0517	16.63

Calculated Velocity [m/s]
20.0628831
20.2122414
22.1690166
19.9678405
21.6848187
21.4643843
21.7144355
20.1076793
20.3301794
20.3769112
21.3515079
21.1190773
22.3422778
22.0830403
22.5757793
21.1543477
22.1806094
21.853685
21.5277665
21.0642303
20.6488576
20.1804201
21.2029003
22.9047429
22.6121882
23.3603712
22.4192352
22.2765973
22.7899766
22.0294265
21.927668
22.9024982
23.0446086
20.7816411
22.6519434
21.7274541
23.1647725
21.4260251
20.28334
22.0702314
21.4667795
21.1288129
21.5587915
21.1409762
21.7688251
22.4329908
21.2404523
21.1263794
21.7120677
21.4548009
20.3339725
21.2428727
21.4416168
23.128122
21.7688251
22.8564313
22.6644235
21.1555629
22.9831726
23.2533824



09.09.2014 14:41:11.2	-184.47	508.4	1.0275	16.63	22.984291
09.09.2014 14:41:11.3	-182.27	508.2	0.9288	16.7	21.8525086
09.09.2014 14:41:11.4	-182.45	508.2	0.9535	16.56	22.1411689
09.09.2014 14:41:11.5	-182.46	508.4	0.9773	16.58	22.415795
09.09.2014 14:41:11.6	-181.71	508.3	1.02	16.51	22.9002531
09.09.2014 14:41:11.7	-179.66	508.3	1.0912	16.43	23.6860355
09.09.2014 14:41:11.8	-179.9	508.4	0.9945	16.94	22.6121882
09.09.2014 14:41:11.9	-179.76	508.5	1.0681	16.45	23.4339854
09.09.2014 14:41:12.0	-176.82	508.4	1.0538	16.73	23.2765866
09.09.2014 14:41:12.1	-177.05	508.3	0.9861	16.63	22.5164892
09.09.2014 14:41:12.2	-177.01	508.5	0.9091	16.61	21.6195189
09.09.2014 14:41:12.3	-176.66	508.5	0.8396	16.69	20.7766925
09.09.2014 14:41:12.4	-174.26	508.4	0.768	16.69	19.8710496
09.09.2014 14:41:12.5	-174.46	508.3	0.933	16.65	21.901861
09.09.2014 14:41:12.6	-174.39	508.4	0.8277	16.56	20.6289287
09.09.2014 14:41:12.7	-173.03	508.4	0.8845	16.69	21.3250037
09.09.2014 14:41:12.8	-171.78	508.2	0.8342	16.68	20.7097707
09.09.2014 14:41:12.9	-171.91	508.2	0.8829	16.58	21.3057073
09.09.2014 14:41:13.0	-171.89	508.3	0.9849	16.63	22.5027847
09.09.2014 14:41:13.1	-170.04	508.2	1.0401	16.68	23.1247872
09.09.2014 14:41:13.2	-168.88	508	1.05	16.7	23.2345811
09.09.2014 14:41:13.3	-168.93	507.9	0.9606	16.7	22.2234504
09.09.2014 14:41:13.4	-168.07	508	0.8979	16.57	21.4859313
09.09.2014 14:41:13.5	-165.81	508.1	0.9042	16.71	21.5611762
09.09.2014 14:41:13.6	-166.08	507.9	0.9993	16.52	22.6666919
09.09.2014 14:41:13.7	-166.1	507.9	0.9128	16.66	21.6634695
09.09.2014 14:41:13.8	-164.97	508	1.021	16.56	22.911476
09.09.2014 14:41:13.9	-163.33	508	0.9898	16.66	22.5586924
09.09.2014 14:41:14.0	-163.54	507.9	0.9423	16.57	22.0107476
09.09.2014 14:41:14.1	-163.51	507.9	0.9139	16.6	21.6765188
09.09.2014 14:41:14.2	-161.18	508	0.8915	16.9	21.4092213
09.09.2014 14:41:14.3	-160.97	507.9	0.9803	16.63	22.4501733
09.09.2014 14:41:14.4	-160.99	507.9	0.9272	16.41	21.8336784
09.09.2014 14:41:14.5	-160.96	507.9	0.8383	16.59	20.7606014
09.09.2014 14:41:14.6	-158.1	508	0.8517	16.65	20.9258699
09.09.2014 14:41:14.7	-158.08	507.8	0.9293	16.69	21.8583898
09.09.2014 14:41:14.8	-158.04	507.7	0.9384	16.53	21.9651512
09.09.2014 14:41:14.9	-156	507.9	0.7753	16.5	19.9652655
09.09.2014 14:41:15.0	-155.06	507.9	0.9698	16.7	22.3296177
09.09.2014 14:41:15.1	-155.14	507.8	0.8709	16.62	21.1604229
09.09.2014 14:41:15.2	-155.16	507.7	0.9828	16.66	22.4787818
09.09.2014 14:41:15.3	-153.16	507.9	0.9075	16.57	21.6004856
09.09.2014 14:41:15.4	-152.55	507.9	0.9561	16.7	22.1713356
09.09.2014 14:41:15.5	-152.57	507.7	0.9159	16.61	21.7002245
09.09.2014 14:41:15.6	-152.24	507.7	0.8785	16.55	21.2525516
09.09.2014 14:41:15.7	-149.85	507.9	0.8366	16.7	20.7395404
09.09.2014 14:41:15.8	-150.03	508	0.8922	16.67	21.4176248
09.09.2014 14:41:15.9	-150.06	507.9	0.9599	16.54	22.2153517
09.09.2014 14:41:16.0	-149.42	507.9	0.8907	16.6	21.3996132
09.09.2014 14:41:16.1	-146.87	508	0.9287	16.62	21.8513322
09.09.2014 14:41:16.2	-147.15	508	0.9219	16.67	21.7711868
09.09.2014 14:41:16.3	-147.13	507.8	0.8393	16.59	20.7729803
09.09.2014 14:41:16.4	-144.08	507.8	0.8628	16.53	21.0617894
09.09.2014 14:41:16.5	-144.22	507.8	0.8513	16.7	20.9209554
09.09.2014 14:41:16.6	-144.22	507.7	0.8391	16.69	20.7705051
09.09.2014 14:41:16.7	-143.3	507.5	0.8259	16.53	20.6064856
09.09.2014 14:41:16.8	-141.49	507.6	0.9306	16.5	21.8736733
09.09.2014 14:41:16.9	-141.7	507.7	0.9803	16.67	22.4501733
09.09.2014 14:41:17.0	-141.34	507.6	0.955	16.69	22.1585778
09.09.2014 14:41:17.1	-138.99	507.5	0.9485	16.56	22.0830403
09.09.2014 14:41:17.2	-139.15	507.6	0.9405	16.63	21.9897148
09.09.2014 14:41:17.3	-139.08	507.6	0.9303	16.64	21.8701473
09.09.2014 14:41:17.4	-137.75	507.3	0.9595	16.66	22.2107225
09.09.2014 14:41:17.5	-136.51	507.2	0.9183	16.57	21.7286372
09.09.2014 14:41:17.6	-136.58	507.4	0.981	16.53	22.4581874
09.09.2014 14:41:17.7	-136.55	507.4	0.8857	16.65	21.3394646
09.09.2014 14:41:17.8	-134.94	507.2	0.8652	16.66	21.0910622
09.09.2014 14:41:17.9	-133.95	507.1	0.931	16.52	21.8783738
09.09.2014 14:41:18.0	-134	507.2	0.9005	16.67	21.5170166
09.09.2014 14:41:18.1	-133.06	507.1	1.0133	16.63	22.8249176
09.09.2014 14:41:18.2	-130.86	507	0.8962	16.58	21.4655819
09.09.2014 14:41:18.3	-131.18	507	0.9285	16.55	21.8489792

09.09.2014 14:41:18.4	-131.11	507.1	0.8668	16.64	21.1105549
09.09.2014 14:41:18.5	-130	507	0.7943	16.7	20.2084255
09.09.2014 14:41:18.6	-128.39	507	0.8637	16.58	21.0727715
09.09.2014 14:41:18.7	-128.54	506.9	0.7896	16.52	20.1485486
09.09.2014 14:41:18.8	-128.54	507	0.9244	16.62	21.8006863
09.09.2014 14:41:18.9	-126.25	506.8	0.8278	16.71	20.6301748
09.09.2014 14:41:19.0	-126.04	506.6	0.8749	16.52	21.2089616
09.09.2014 14:41:19.1	-126.03	506.7	0.893	16.5	21.4272248
09.09.2014 14:41:19.2	-125.31	506.7	0.9523	16.64	22.127232
09.09.2014 14:41:19.3	-122.86	506.5	0.8802	16.65	21.2731048
09.09.2014 14:41:19.4	-123.12	506.4	0.907	16.51	21.5945342
09.09.2014 14:41:19.5	-123.07	506.5	0.9919	16.57	22.5826104
09.09.2014 14:41:19.6	-121.05	506.5	1.0009	16.61	22.6848307
09.09.2014 14:41:19.7	-120.09	506.2	0.9317	16.6	21.8865972
09.09.2014 14:41:19.8	-120.21	506.2	0.9381	16.53	21.9616398
09.09.2014 14:41:19.9	-120.21	506.3	1.0266	16.57	22.9742227
09.09.2014 14:41:20.0	-118.19	506.3	0.9834	16.59	22.4856424
09.09.2014 14:41:20.1	-117.58	506.1	0.8136	16.63	20.4524654
09.09.2014 14:41:20.2	-117.67	506.1	0.9034	16.5	21.5516358
09.09.2014 14:41:20.3	-117.24	506.2	0.9844	16.61	22.4970721
09.09.2014 14:41:20.4	-114.88	506.2	0.8825	16.77	21.3008804
09.09.2014 14:41:20.5	-115.12	506	0.8608	16.42	21.0373642
09.09.2014 14:41:20.6	-115.12	506.1	0.772	16.5	19.9227299
09.09.2014 14:41:20.7	-113.38	506.3	0.9062	16.58	21.5850086
09.09.2014 14:41:20.8	-112.06	506.2	0.8126	16.77	20.4398924
09.09.2014 14:41:20.9	-112.19	506.2	0.863	16.44	21.0642303
09.09.2014 14:41:21.0	-112.16	506.3	0.975	16.53	22.3894026
09.09.2014 14:41:21.1	-109.12	506.4	0.9533	16.65	22.1388467
09.09.2014 14:41:21.2	-109.27	506.3	0.8055	16.4	20.3504009
09.09.2014 14:41:21.3	-109.24	506.3	0.9185	16.69	21.7310033
09.09.2014 14:41:21.4	-108.33	506.5	0.8834	16.42	21.3117393
09.09.2014 14:41:21.5	-106.55	506.5	0.8943	16.66	21.4428157
09.09.2014 14:41:21.6	-106.72	506.4	0.8475	16.58	20.8742101
09.09.2014 14:41:21.7	-106.72	506.3	0.881	16.51	21.28277
09.09.2014 14:41:21.8	-104.6	506.4	0.8412	16.62	20.7964798
09.09.2014 14:41:21.9	-104.12	506.4	0.9574	16.58	22.1864036
09.09.2014 14:41:22.0	-104.12	506.1	0.9103	16.73	21.633783
09.09.2014 14:41:22.1	-102.84	506	0.8186	16.71	20.5152147
09.09.2014 14:41:22.2	-101.54	506.1	0.922	16.53	21.7723676
09.09.2014 14:41:22.3	-101.6	506.1	0.8796	16.74	21.265853
09.09.2014 14:41:22.4	-101.62	505.9	0.8845	16.37	21.3250037
09.09.2014 14:41:22.5	-99.11	505.9	0.914	16.67	21.6777047
09.09.2014 14:41:22.6	-99.05	506	0.9279	16.5	21.8419186
09.09.2014 14:41:22.7	-99.05	505.9	0.8657	16.54	21.0971556
09.09.2014 14:41:22.8	-98.13	505.9	0.8437	16.6	20.8273599
09.09.2014 14:41:22.9	-95.91	505.9	0.8506	16.46	20.9123523
09.09.2014 14:41:23.0	-96.18	505.9	0.9027	16.63	21.5432846
09.09.2014 14:41:23.1	-96.14	505.9	0.8866	16.58	21.3503039
09.09.2014 14:41:23.2	-94.41	505.8	0.8584	16.61	21.0080166
09.09.2014 14:41:23.3	-93.96	505.9	0.9469	16.52	22.0644068
09.09.2014 14:41:23.4	-93.96	505.9	0.8977	16.64	21.4835383
09.09.2014 14:41:23.5	-93.48	505.9	0.8172	16.75	20.4976643
09.09.2014 14:41:23.6	-90.87	505.8	0.807	16.49	20.3693403
09.09.2014 14:41:23.7	-91.14	505.9	0.8535	16.57	20.9479708
09.09.2014 14:41:23.8	-91.03	506	0.8451	16.63	20.8446328
09.09.2014 14:41:23.9	-89.32	505.7	0.8592	16.66	21.0178037
09.09.2014 14:41:24.0	-88.06	505.7	0.8563	16.56	20.9823037
09.09.2014 14:41:24.1	-88.14	505.8	0.9601	16.51	22.2176659
09.09.2014 14:41:24.2	-88.07	505.8	0.8321	16.71	20.6836871
09.09.2014 14:41:24.3	-85.87	505.6	0.8361	16.59	20.7333419
09.09.2014 14:41:24.4	-85.99	505.6	0.8907	16.54	21.3996132
09.09.2014 14:41:24.5	-85.94	505.7	0.805	16.62	20.3440839
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09.09.2014 14:41:24.7	-82.99	505.5	0.9558	16.61	22.1678569
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09.09.2014 14:41:24.9	-82.72	505.6	0.947	16.62	22.0655718
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09.09.2014 14:41:26.7	-69.05	506.1	0.8391	16.6	20.7705051
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09.09.2014 14:41:27.0	-67.1	506.3	0.8322	16.57	20.6849299
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09.09.2014 14:41:31.2	-35.74	508.5	0.7494	16.53	19.6289488
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09.09.2014 14:41:32.6	-25.89	509	0.7658	16.63	19.842568
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09.09.2014 14:41:32.8	-23.29	508.9	0.8205	16.58	20.5390092
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09.09.2014 14:41:33.6	-17.86	509.3	0.7694	16.51	19.889153
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09.09.2014 14:41:33.8	-15.15	509.5	0.7339	16.7	19.4248933
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09.09.2014 14:41:45.8	73.46	506.2	0.8227	16.41	20.5665263
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09.09.2014 14:41:46.1	76.12	506.3	0.7823	16.38	20.0551938
09.09.2014 14:41:46.2	76.01	506.3	0.803	16.41	20.318796
09.09.2014 14:41:46.3	76.11	506.5	0.8568	16.38	20.9884287
09.09.2014 14:41:46.4	78.72	506.5	0.8478	16.55	20.8779043
09.09.2014 14:41:46.5	78.55	506.3	0.8227	16.38	20.5665263
09.09.2014 14:41:46.6	78.63	506.4	0.9308	16.35	21.8760237
09.09.2014 14:41:46.7	79.81	506.5	0.9091	16.56	21.6195189
09.09.2014 14:41:46.8	81.69	506.5	0.862	16.45	21.0520227
09.09.2014 14:41:46.9	81.49	506.4	0.7764	16.51	19.9794239
09.09.2014 14:41:47.0	81.52	506.4	0.7805	16.21	20.0321079
09.09.2014 14:41:47.1	83.72	506.5	0.7643	16.4	19.8231253

09.09.2014 14:41:47.2	84.07	506.4	0.8824	16.49	21.2996735
09.09.2014 14:41:47.3	84.06	506.3	0.8659	16.43	21.0995925
09.09.2014 14:41:47.4	84.62	506.4	0.8023	16.42	20.3099378
09.09.2014 14:41:47.5	86.82	506.5	0.865	16.38	21.0886244
09.09.2014 14:41:47.6	86.58	506.4	0.7748	16.48	19.9588265
09.09.2014 14:41:47.7	86.55	506.3	0.9001	16.41	21.5122372
09.09.2014 14:41:47.8	88.59	506.5	0.8969	16.36	21.4739634
09.09.2014 14:41:47.9	89.57	506.6	0.8975	16.5	21.481145
09.09.2014 14:41:48.0	89.52	506.5	0.8903	16.44	21.3948075
09.09.2014 14:41:48.1	89.71	506.5	0.976	16.4	22.4008814
09.09.2014 14:41:48.2	92.24	506.7	0.8248	16.44	20.5927584
09.09.2014 14:41:48.3	92.01	506.8	0.8197	16.51	20.5289939
09.09.2014 14:41:48.4	92.1	506.7	0.9219	16.41	21.7711868
09.09.2014 14:41:48.5	93.25	506.8	0.8398	16.4	20.7791669
09.09.2014 14:41:48.6	94.75	507	0.7819	16.47	20.0500659
09.09.2014 14:41:48.7	94.58	507.1	0.8218	16.49	20.5552738
09.09.2014 14:41:48.8	94.64	507	0.8534	16.44	20.9467436
09.09.2014 14:41:48.9	97.36	507.1	0.789	16.38	20.1408919
09.09.2014 14:41:49.0	97.51	507.2	0.779	16.49	20.0128493
09.09.2014 14:41:49.1	97.52	507.2	0.8238	16.45	20.5802711
09.09.2014 14:41:49.2	98.16	507.2	0.8211	16.61	20.5465175
09.09.2014 14:41:49.3	100.31	507.3	0.8365	16.34	20.7383008
09.09.2014 14:41:49.4	100.04	507.4	0.8619	16.61	21.0508016
09.09.2014 14:41:49.5	100.14	507.3	0.7727	16.5	19.9317602
09.09.2014 14:41:49.6	102.76	507.3	0.8191	16.37	20.5214791
09.09.2014 14:41:49.7	102.62	507.4	0.7145	16.5	19.1664338
09.09.2014 14:41:49.8	102.6	507.6	0.9095	16.51	21.6242747
09.09.2014 14:41:49.9	103.69	507.5	0.8591	16.48	21.0165806
09.09.2014 14:41:50.0	105.35	507.6	0.8091	16.43	20.395826
09.09.2014 14:41:50.1	105.15	507.8	0.8105	16.39	20.413464
09.09.2014 14:41:50.2	105.56	507.9	0.9222	16.54	21.7747289
09.09.2014 14:41:50.3	107.94	507.7	0.8332	16.5	20.697354
09.09.2014 14:41:50.4	107.7	507.8	0.7879	16.44	20.1268471
09.09.2014 14:41:50.5	107.72	507.9	0.8573	16.51	20.9945519
09.09.2014 14:41:50.6	109.26	508	0.736	16.59	19.4526648
09.09.2014 14:41:50.7	110.36	507.8	0.7757	16.51	19.9704151
09.09.2014 14:41:50.8	110.23	507.8	0.7567	16.35	19.7243211
09.09.2014 14:41:50.9	111.03	508	0.7968	16.6	20.2402028
09.09.2014 14:41:51.0	113.03	508	0.7884	16.58	20.1332323
09.09.2014 14:41:51.1	112.8	508	0.8504	16.49	20.9098936
09.09.2014 14:41:51.2	113	508.1	0.8431	16.48	20.8199529
09.09.2014 14:41:51.3	115.52	508.3	0.7787	16.59	20.0089954
09.09.2014 14:41:51.4	115.32	508.3	0.7804	16.67	20.0308246
09.09.2014 14:41:51.5	115.34	508.3	0.8067	16.44	20.3655539
09.09.2014 14:41:51.6	116.56	508.4	0.8291	16.52	20.6463676
09.09.2014 14:41:51.7	118.05	508.6	0.8225	16.56	20.5640263
09.09.2014 14:41:51.8	117.88	508.5	0.8212	16.59	20.5477687
09.09.2014 14:41:51.9	117.94	508.5	0.8092	16.51	20.3970863
09.09.2014 14:41:52.0	120.27	508.7	0.852	16.45	20.929555
09.09.2014 14:41:52.1	120.47	508.7	0.8046	16.63	20.3390288
09.09.2014 14:41:52.2	120.47	508.5	0.8697	16.53	21.1458395
09.09.2014 14:41:52.3	121.08	508.5	0.8274	16.56	20.6251899
09.09.2014 14:41:52.4	123.22	508.7	0.8739	16.5	21.1968373
09.09.2014 14:41:52.5	122.98	508.7	0.7924	16.58	20.1842414
09.09.2014 14:41:52.6	123.02	508.6	0.8325	16.61	20.6886579
09.09.2014 14:41:52.7	125.13	508.5	0.9401	16.51	21.9850381
09.09.2014 14:41:52.8	126.02	508.7	0.8165	16.59	20.4888834
09.09.2014 14:41:52.9	125.92	508.7	0.8124	16.64	20.4373769
09.09.2014 14:41:53.0	126.18	508.6	0.8226	16.54	20.5652763
09.09.2014 14:41:53.1	128.63	508.6	0.9174	16.52	21.7179868
09.09.2014 14:41:53.2	128.43	508.6	0.9468	16.59	22.0632417
09.09.2014 14:41:53.3	128.45	508.5	0.8832	16.7	21.3093267
09.09.2014 14:41:53.4	129.77	508.4	0.7992	16.55	20.2706621
09.09.2014 14:41:53.5	131.17	508.4	0.9383	16.49	21.9639808
09.09.2014 14:41:53.6	131.03	508.4	0.9489	16.68	22.0876962
09.09.2014 14:41:53.7	131	508.3	0.8502	16.67	20.9074346
09.09.2014 14:41:53.8	133.88	508.2	0.8852	16.53	21.3334404
09.09.2014 14:41:53.9	133.88	508.3	0.9616	16.53	22.2350149
09.09.2014 14:41:54.0	133.92	508.3	0.9385	16.68	21.9663215
09.09.2014 14:41:54.1	134.7	508.1	0.9342	16.64	21.9159413
09.09.2014 14:41:54.2	136.71	508	0.9265	16.58	21.825435
09.09.2014 14:41:54.3	136.48	508.2	0.9292	16.53	21.8572137

09.09.2014 14:41:54.4	136.68	508.2	0.8431	16.56	20.8199529
09.09.2014 14:41:54.5	139.15	507.9	0.8457	16.71	20.852031
09.09.2014 14:41:54.6	139	507.9	0.8341	16.54	20.7085293
09.09.2014 14:41:54.7	138.99	508	0.7197	16.66	19.2360523
09.09.2014 14:41:54.8	140.22	508	0.855	16.63	20.9663704
09.09.2014 14:41:54.9	141.73	507.8	0.8952	16.65	21.4536027
09.09.2014 14:41:55.0	141.55	507.7	0.9334	16.6	21.9065555
09.09.2014 14:41:55.1	142.09	507.9	0.8721	16.69	21.1749962
09.09.2014 14:41:55.2	144.33	507.7	0.8581	16.69	21.0043452
09.09.2014 14:41:55.3	144.06	507.6	0.9122	16.54	21.6563485
09.09.2014 14:41:55.4	144.12	507.6	0.9405	16.61	21.9897148
09.09.2014 14:41:55.5	145.78	507.6	0.8595	16.63	21.0214727
09.09.2014 14:41:55.6	146.71	507.5	0.9198	16.69	21.7463763
09.09.2014 14:41:55.7	146.66	507.4	0.8575	16.59	20.9970006
09.09.2014 14:41:55.8	147.59	507.4	0.8955	16.52	21.4571972
09.09.2014 14:41:55.9	149.44	507.5	0.977	16.68	22.4123543
09.09.2014 14:41:56.0	149.18	507.3	0.9212	16.74	21.7629198
09.09.2014 14:41:56.1	149.22	507.2	0.8333	16.53	20.698596
09.09.2014 14:41:56.2	151.3	507.4	0.8766	16.56	21.2295569
09.09.2014 14:41:56.3	151.77	507.3	0.9273	16.67	21.8348557
09.09.2014 14:41:56.4	151.78	507.2	0.8423	16.66	20.8100727
09.09.2014 14:41:56.5	151.79	507	0.8445	16.6	20.8372319
09.09.2014 14:41:56.6	154.07	507.2	0.8722	16.6	21.1762102
09.09.2014 14:41:56.7	154.35	507.2	0.8413	16.67	20.7977159
09.09.2014 14:41:56.8	154.31	507	0.853	16.65	20.941834
09.09.2014 14:41:56.9	156.06	506.9	0.9096	16.59	21.6254634
09.09.2014 14:41:57.0	157.32	507.1	0.9993	16.68	22.6666919
09.09.2014 14:41:57.1	157.21	507.1	0.9209	16.67	21.7593758
09.09.2014 14:41:57.2	157.25	506.9	0.8246	16.64	20.5902615
09.09.2014 14:41:57.3	159.93	506.9	0.8547	16.61	20.9626918
09.09.2014 14:41:57.4	159.78	507	0.8953	16.7	21.4548009
09.09.2014 14:41:57.5	159.75	506.9	1.0021	16.72	22.6984253
09.09.2014 14:41:57.6	160.79	506.8	1.0645	16.62	23.3944603
09.09.2014 14:41:57.7	162.54	506.8	1.0043	16.61	22.7233275
09.09.2014 14:41:57.8	162.27	506.8	0.9483	16.68	22.080712
09.09.2014 14:41:57.9	162.3	506.7	1.0065	16.68	22.7482026
09.09.2014 14:41:58.0	164.85	506.6	0.9761	16.9	22.4020289
09.09.2014 14:41:58.1	165.27	506.7	1.001	16.48	22.6859639
09.09.2014 14:41:58.2	165.25	506.7	1.0497	16.62	23.2312616
09.09.2014 14:41:58.3	165.78	506.6	1.0162	16.54	22.8575556
09.09.2014 14:41:58.4	167.97	506.4	0.9621	16.42	22.2407949
09.09.2014 14:41:58.5	167.76	506.5	1.035	16.58	23.0680228
09.09.2014 14:41:58.6	167.79	506.5	0.9515	16.76	22.1179358
09.09.2014 14:41:58.7	169.46	506.3	0.9937	16.86	22.6030914
09.09.2014 14:41:58.8	170.43	506.2	0.8578	16.35	21.0006733
09.09.2014 14:41:58.9	170.36	506.3	0.9169	16.78	21.7120677
09.09.2014 14:41:59.0	170.5	506.3	0.9182	16.56	21.7274541
09.09.2014 14:41:59.1	173.4	506	0.938	16.74	21.9604693
09.09.2014 14:41:59.2	173.2	506.1	0.9513	16.68	22.1156112
09.09.2014 14:41:59.3	173.25	506.2	0.9993	16.67	22.6666919
09.09.2014 14:41:59.4	174.37	506.2	1.0245	16.57	22.9507128
09.09.2014 14:41:59.5	175.97	506	0.9639	16.48	22.2615904
09.09.2014 14:41:59.6	175.77	506	0.9632	16.65	22.2535055
09.09.2014 14:41:59.7	175.83	506.2	0.8767	16.58	21.2307678
09.09.2014 14:41:59.8	178.15	506.1	0.9785	16.78	22.4295527
09.09.2014 14:41:59.9	178.33	506	0.9827	16.54	22.4776381
09.09.2014 14:42:00.0	178.34	506.1	1.0006	16.54	22.6814307
09.09.2014 14:42:00.1	179.06	506.1	1.0004	16.75	22.6791639
09.09.2014 14:42:00.2	181.49	506	0.8886	16.57	21.3743714
09.09.2014 14:42:00.3	181.2	505.9	1.0317	16.6	23.0312183
09.09.2014 14:42:00.4	181.31	506	0.9343	16.48	21.9171143
09.09.2014 14:42:00.5	183.09	506.1	0.9636	16.7	22.2581258
09.09.2014 14:42:00.6	183.85	505.9	1.0501	16.63	23.2356875
09.09.2014 14:42:00.7	183.79	505.8	0.9978	16.5	22.6496736
09.09.2014 14:42:00.8	184.05	506.1	0.866	16.56	21.1008108
09.09.2014 14:42:00.9	186.48	506.2	0.9118	16.66	21.6515998
09.09.2014 14:42:01.0	186.33	506	1.037	16.6	23.0903
09.09.2014 14:42:01.1	186.36	506	1.0587	16.47	23.3306401
09.09.2014 14:42:01.2	188.91	506.2	1.0339	16.63	23.0557612
09.09.2014 14:42:01.3	189.28	506.2	1.005	16.57	22.7312453
09.09.2014 14:42:01.4	189.25	506	0.8974	16.43	21.4799482
09.09.2014 14:42:01.5	189.23	505.9	0.949	16.64	22.08886

09.09.2014 14:42:01.6	191.38	506	0.9632	16.25	22.2535055
09.09.2014 14:42:01.7	191.41	505.9	0.8845	16.74	21.3250037
09.09.2014 14:42:01.8	191.41	505.7	1.0044	16.54	22.7244588
09.09.2014 14:42:01.9	193.43	505.7	0.9593	16.46	22.2084076
09.09.2014 14:42:02.0	194.48	505.7	0.8854	16.64	21.3358503
09.09.2014 14:42:02.1	194.33	505.6	1.0324	16.64	23.0390303
09.09.2014 14:42:02.2	195.27	505.6	1.207	16.49	24.9111532
09.09.2014 14:42:02.3	197.14	505.6	1.2365	16.47	25.2137393
09.09.2014 14:42:02.4	196.85	505.7	1.312	16.6	25.9721029
09.09.2014 14:42:02.5	196.89	505.7	1.1176	16.59	23.9708478
09.09.2014 14:42:02.6	199.06	505.6	1.0343	16.53	23.0602207
09.09.2014 14:42:02.7	199.49	505.8	1.033	16.42	23.0457241
09.09.2014 14:42:02.8	199.45	505.9	1.0358	16.59	23.0769363
09.09.2014 14:42:02.9	200.83	505.8	0.9488	16.58	22.0865323
09.09.2014 14:42:03.0	202.1	505.8	0.9699	16.46	22.3307689
09.09.2014 14:42:03.1	201.96	505.9	0.9209	16.53	21.7593758
09.09.2014 14:42:03.2	201.98	506	0.9167	16.55	21.7096995
09.09.2014 14:42:03.3	204.54	505.8	0.8754	16.58	21.2150211
09.09.2014 14:42:03.4	204.5	505.9	0.954	16.42	22.1469734
09.09.2014 14:42:03.5	204.58	506.1	0.8942	16.64	21.4416168
09.09.2014 14:42:03.6	205.37	506.1	0.9505	16.52	22.1063101
09.09.2014 14:42:03.7	207.32	506	0.9612	16.56	22.2303898
09.09.2014 14:42:03.8	207.07	506	1.0914	16.44	23.688206
09.09.2014 14:42:03.9	207.1	506.2	1.056	16.58	23.300871
09.09.2014 14:42:04.0	209.09	506.2	0.9691	16.57	22.3215575
09.09.2014 14:42:04.1	209.68	506	0.9822	16.38	22.4719191
09.09.2014 14:42:04.2	209.65	506.1	1.0182	16.45	22.8800381
09.09.2014 14:42:04.3	210.11	506.2	1.0693	16.51	23.4471456
09.09.2014 14:42:04.4	212.76	506.2	1.0032	16.58	22.7108798
09.09.2014 14:42:04.5	212.5	506.1	0.9445	16.49	22.036427
09.09.2014 14:42:04.6	212.54	506.2	0.925	16.37	21.8077602
09.09.2014 14:42:04.7	214.06	506.3	0.9103	16.61	21.633783
09.09.2014 14:42:04.8	215.18	506.2	0.9119	16.56	21.6527871
09.09.2014 14:42:04.9	215.09	506.1	0.9044	16.44	21.5635606
09.09.2014 14:42:05.0	215.82	506.3	1.0384	16.5	23.1058812
09.09.2014 14:42:05.1	217.91	506.4	1.1455	16.45	24.26821
09.09.2014 14:42:05.2	217.62	506.2	1.0101	16.57	22.7888486
09.09.2014 14:42:05.3	217.65	506.2	0.9507	16.45	22.1086357
09.09.2014 14:42:05.4	219.58	506.4	0.9762	16.52	22.4031764
09.09.2014 14:42:05.5	220.22	506.5	0.8698	16.53	21.1470552
09.09.2014 14:42:05.6	220.18	506.3	0.9439	16.55	22.0294265
09.09.2014 14:42:05.7	221.36	506.3	1.0301	16.47	23.0133526
09.09.2014 14:42:05.8	222.92	506.6	0.9473	16.5	22.0690666
09.09.2014 14:42:05.9	222.73	506.5	1.0222	16.58	22.9249362
09.09.2014 14:42:06.0	223.23	506.4	1.0214	16.49	22.9159636
09.09.2014 14:42:06.1	225.48	506.5	0.8786	16.49	21.2537612
09.09.2014 14:42:06.2	225.26	506.6	1.0091	16.5	22.7775653
09.09.2014 14:42:06.3	225.28	506.6	1.1246	16.59	24.0458003
09.09.2014 14:42:06.4	226.86	506.5	0.9725	16.5	22.3606798
09.09.2014 14:42:06.5	227.93	506.6	0.9059	16.63	21.5814354
09.09.2014 14:42:06.6	227.86	506.7	0.8792	16.52	21.2610171
09.09.2014 14:42:06.7	228.62	506.7	0.8948	16.59	21.4488091
09.09.2014 14:42:06.8	230.61	506.7	0.8348	16.54	20.7172171
09.09.2014 14:42:06.9	230.37	506.9	0.9129	16.41	21.6646562
09.09.2014 14:42:07.0	230.37	507	0.8687	16.57	21.1336791
09.09.2014 14:42:07.1	232.35	506.8	0.9721	16.67	22.3560807
09.09.2014 14:42:07.2	232.99	506.8	0.9888	16.48	22.5472939
09.09.2014 14:42:07.3	232.92	507	0.9098	16.52	21.6278408
09.09.2014 14:42:07.4	233.31	507	0.987	16.6	22.5267621
09.09.2014 14:42:07.5	235.7	506.8	0.8699	16.58	21.1482708
09.09.2014 14:42:07.6	235.44	506.7	0.9486	16.58	22.0842044
09.09.2014 14:42:07.7	235.45	507	0.928	16.52	21.8430955
09.09.2014 14:42:07.8	236.99	507	0.999	16.62	22.6632892
09.09.2014 14:42:07.9	238.11	506.9	0.9997	16.57	22.6712279
09.09.2014 14:42:08.0	237.99	506.9	1.0668	16.48	23.4197201
09.09.2014 14:42:08.1	238.04	507.1	1.0427	16.61	23.1536724
09.09.2014 14:42:08.2	241.09	507.1	1.0037	16.6	22.7165387
09.09.2014 14:42:08.3	240.89	506.9	0.9725	16.61	22.3606798
09.09.2014 14:42:08.4	240.96	507	0.9634	16.53	22.2558158
09.09.2014 14:42:08.5	241.88	507.1	1.0609	16.54	23.3548683
09.09.2014 14:42:08.6	243.65	507.1	1.0564	16.66	23.3052837
09.09.2014 14:42:08.7	243.46	507.1	0.9805	16.67	22.4524634

09.09.2014 14:42:08.8	243.51	507.2	0.9697	16.26	22.3284664
09.09.2014 14:42:08.9	245.64	507.3	0.9415	16.59	22.0014022
09.09.2014 14:42:09.0	246.06	507.2	0.9185	16.8	21.7310033
09.09.2014 14:42:09.1	246.06	507.1	0.988	16.43	22.538171
09.09.2014 14:42:09.2	246.58	507.2	0.9445	16.31	22.036427
09.09.2014 14:42:09.3	249.17	507.3	0.9018	16.7	21.5325425
09.09.2014 14:42:09.4	248.9	507.1	0.9383	16.6	21.9639808
09.09.2014 14:42:09.5	248.92	507	1.048	16.64	23.2124424
09.09.2014 14:42:09.6	250.58	507.2	1.0792	16.6	23.555437
09.09.2014 14:42:09.7	251.62	507.2	0.9877	16.77	22.5347489
09.09.2014 14:42:09.8	251.47	506.9	0.8963	16.74	21.4667795
09.09.2014 14:42:09.9	251.58	506.9	0.9432	16.52	22.0212564
09.09.2014 14:42:10.0	254.18	507.1	0.952	16.59	22.1237464
09.09.2014 14:42:10.1	253.99	507.1	0.8944	16.71	21.4440145
09.09.2014 14:42:10.2	254.02	507	0.9264	16.5	21.8242572
09.09.2014 14:42:10.3	255.29	507	0.9909	16.64	22.571224
09.09.2014 14:42:10.4	257.16	507.2	0.9497	16.58	22.0970051
09.09.2014 14:42:10.5	256.92	507.1	0.9105	16.67	21.6361594
09.09.2014 14:42:10.6	256.95	507	0.9133	16.54	21.669402
09.09.2014 14:42:10.7	259.25	507.1	0.8594	16.84	21.0202498
09.09.2014 14:42:10.8	259.48	507.1	0.8864	16.57	21.3478956
09.09.2014 14:42:10.9	259.48	507	0.8955	16.65	21.4571972
09.09.2014 14:42:11.0	260.99	506.9	0.8964	16.55	21.467977
09.09.2014 14:42:11.1	262.16	507	0.854	16.49	20.9541058
09.09.2014 14:42:11.2	262.06	507.1	0.7625	16.7	19.7997689
09.09.2014 14:42:11.3	262.06	506.9	0.9224	16.66	21.7770899
09.09.2014 14:42:11.4	264.72	506.8	0.8386	16.53	20.7643158
09.09.2014 14:42:11.5	264.58	507	0.8909	16.43	21.4020156
09.09.2014 14:42:11.6	264.58	507	0.939	16.69	21.9721722
09.09.2014 14:42:11.7	266.52	506.8	0.8269	16.4	20.618957
09.09.2014 14:42:11.8	267.19	506.7	0.7949	16.41	20.2160566
09.09.2014 14:42:11.9	267.15	506.9	0.8462	16.71	20.8581942
09.09.2014 14:42:12.0	268.31	506.9	0.777	16.76	19.9871424
09.09.2014 14:42:12.1	269.88	506.6	0.8425	16.83	20.8125432
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09.09.2014 14:42:12.3	269.69	506.8	0.9079	16.54	21.6052455
09.09.2014 14:42:12.4	272.06	506.9	0.9197	16.56	21.7451942
09.09.2014 14:42:12.5	272.22	506.8	0.8647	16.56	21.084967
09.09.2014 14:42:12.6	272.24	506.8	0.9701	16.48	22.3330711
09.09.2014 14:42:12.7	273.87	507	0.8992	16.7	21.5014796
09.09.2014 14:42:12.8	274.88	506.9	0.8016	16.99	20.3010757
09.09.2014 14:42:12.9	274.76	506.9	0.7587	16.53	19.7503701
09.09.2014 14:42:13.0	274.89	506.9	0.6835	16.48	18.7460364
09.09.2014 14:42:13.1	277.45	507	0.7683	16.78	19.8749303
09.09.2014 14:42:13.2	277.26	506.9	0.6895	16.72	18.8281363
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09.09.2014 14:42:13.5	280.06	507	0.6361	16.67	18.0843496
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09.09.2014 14:42:13.8	282.13	506.8	0.6834	16.57	18.7446651
09.09.2014 14:42:13.9	282.42	506.8	0.7817	16.68	20.0475014
09.09.2014 14:42:14.0	282.43	506.5	0.6669	16.66	18.516997
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09.09.2014 14:42:14.5	287.08	506	0.5888	16.59	17.3989924
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09.09.2014 14:42:14.7	287.85	506.1	0.7518	16.65	19.6603551
09.09.2014 14:42:14.8	288.04	505.9	0.6424	16.67	18.1736836
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09.09.2014 14:42:15.0	290.41	505.9	0.5844	16.65	17.3338606
09.09.2014 14:42:15.1	290.43	505.8	0.5716	16.71	17.1429796
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09.09.2014 14:42:15.3	292.87	505.7	0.7365	16.56	19.4592713
09.09.2014 14:42:15.4	292.69	505.7	0.5739	16.61	17.1774348
09.09.2014 14:42:15.5	292.71	505.5	0.5551	16.64	16.8937402
09.09.2014 14:42:15.6	292.7	505.4	0.5519	16.63	16.8449759
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09.09.2014 14:42:15.8	292.73	505.5	0.6432	16.63	18.1849962
09.09.2014 14:42:15.9	292.72	505.3	0.687	16.68	18.7939716

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09.09.2014 14:42:16.1	292.72	505.4	0.6719	16.51	18.5862818
09.09.2014 14:42:16.2	292.69	505.5	0.7142	16.68	19.1624096
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09.09.2014 14:42:16.8	292.73	505.2	0.6091	16.52	17.6963825
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09.09.2014 14:42:17.3	292.75	505.3	0.6536	16.59	18.3314247
09.09.2014 14:42:17.4	292.7	505.2	0.6478	16.74	18.2499076
09.09.2014 14:42:17.5	292.7	505.1	0.6214	16.52	17.8741674
09.09.2014 14:42:17.6	292.73	505.3	0.5098	16.52	16.1897489
09.09.2014 14:42:17.7	292.63	505.3	0.5611	16.6	16.9847959
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09.09.2014 14:42:19.1	284.31	504.6	0.8464	16.5	20.860659
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09.09.2014 14:42:21.0	269.01	503.6	1.0046	16.52	22.7267212
09.09.2014 14:42:21.1	269.08	503.8	0.9367	16.66	21.9452462
09.09.2014 14:42:21.2	268.83	503.7	0.9829	16.65	22.4799253
09.09.2014 14:42:21.3	266.4	503.6	1.0139	16.55	22.8316742
09.09.2014 14:42:21.4	266.57	503.7	0.8737	16.62	21.1944116
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09.09.2014 14:42:21.6	265.22	503.5	0.8383	16.54	20.7606014
09.09.2014 14:42:21.7	263.82	503.4	0.8245	16.59	20.589013
09.09.2014 14:42:21.8	264.01	503.3	0.8243	16.44	20.5865157
09.09.2014 14:42:21.9	264.01	503.4	0.7393	16.57	19.4962226
09.09.2014 14:42:22.0	261.17	503.1	0.7156	16.74	19.1811819
09.09.2014 14:42:22.1	261.09	503	0.8209	16.52	20.5440151
09.09.2014 14:42:22.2	261.09	503.2	0.9416	16.52	22.0025705
09.09.2014 14:42:22.3	260.31	503.3	0.9577	16.53	22.1898793
09.09.2014 14:42:22.4	258.23	503.1	0.9676	16.52	22.3042758
09.09.2014 14:42:22.5	258.54	503.1	1.0898	16.52	23.6708361
09.09.2014 14:42:22.6	258.35	503.3	1.1417	16.52	24.2279237
09.09.2014 14:42:22.7	255.81	503.4	1.0942	16.6	23.7185728
09.09.2014 14:42:22.8	256.03	503.3	0.9435	16.62	22.0247582
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09.09.2014 14:42:23.1	253.25	503.5	0.9457	16.63	22.0504213

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09.09.2014 14:42:23.3	252.9	503.5	1.1126	16.56	23.9171664
09.09.2014 14:42:23.4	250.7	503.6	1.1169	16.65	23.9633396
09.09.2014 14:42:23.5	250.92	503.6	0.9938	16.7	22.6042287
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09.09.2014 14:42:23.7	248.36	503.7	1.0571	16.51	23.3130038
09.09.2014 14:42:23.8	248.37	503.7	0.9284	16.66	21.8478026
09.09.2014 14:42:23.9	248.28	503.6	0.9177	16.73	21.7215375
09.09.2014 14:42:24.0	247.49	503.6	0.8782	16.56	21.2489225
09.09.2014 14:42:24.1	245.57	503.7	0.9458	16.54	22.0515871
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09.09.2014 14:42:24.3	245.56	503.6	0.8257	16.71	20.6039904
09.09.2014 14:42:24.4	243.11	503.6	0.9366	16.5	21.9440747
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09.09.2014 14:42:24.6	243.23	503.9	0.955	16.6	22.1585778
09.09.2014 14:42:24.7	242	503.8	0.9667	16.81	22.2939004
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09.09.2014 14:42:25.3	238.18	504.2	1.03	16.62	23.0122355
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09.09.2014 14:42:25.5	235.3	504.1	1.0551	16.66	23.2909396
09.09.2014 14:42:25.6	235.65	504.2	1.0669	16.53	23.4208178
09.09.2014 14:42:25.7	235.42	504.4	1.072	16.67	23.4767292
09.09.2014 14:42:25.8	232.5	504.3	1.0262	16.7	22.9697465
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09.09.2014 14:42:26.2	229.94	504.4	0.9227	16.82	21.780631
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09.09.2014 14:42:26.8	226.98	504.8	0.9322	16.53	21.8924692
09.09.2014 14:42:26.9	224.79	504.9	1.0068	16.6	22.7515925
09.09.2014 14:42:27.0	225.04	504.7	1.0027	16.5	22.7052195
09.09.2014 14:42:27.1	224.97	504.7	0.952	16.72	22.1237464
09.09.2014 14:42:27.2	222.34	504.9	0.9525	16.33	22.1295554
09.09.2014 14:42:27.3	222.51	504.9	0.8912	16.72	21.4056188
09.09.2014 14:42:27.4	222.51	504.8	0.8874	16.51	21.3599341
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09.09.2014 14:42:27.9	217.2	505.2	1.0184	16.69	22.8822851
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09.09.2014 14:42:28.2	215.91	505.1	1.018	16.49	22.8777909
09.09.2014 14:42:28.3	214.78	505.2	0.9899	16.92	22.5598319
09.09.2014 14:42:28.4	214.87	505.3	1.1127	16.57	23.9182412
09.09.2014 14:42:28.5	214.82	505.2	1.0325	16.62	23.040146
09.09.2014 14:42:28.6	212.18	505.2	0.9842	16.67	22.4947866
09.09.2014 14:42:28.7	212.35	505.4	1.0109	16.76	22.7978712
09.09.2014 14:42:28.8	212.26	505.5	0.87	16.77	21.1494863
09.09.2014 14:42:28.9	211.25	505.4	0.9625	16.67	22.2454178
09.09.2014 14:42:29.0	209.19	505.5	0.9269	16.64	21.8301459
09.09.2014 14:42:29.1	209.42	505.7	0.9562	16.63	22.1724951
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09.09.2014 14:42:29.3	207.26	505.6	0.9909	16.66	22.571224
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09.09.2014 14:42:29.7	204.08	505.7	1.0094	16.6	22.7809509
09.09.2014 14:42:29.8	204.36	505.7	1.0501	16.49	23.2356875
09.09.2014 14:42:29.9	204.31	505.9	1.0971	16.7	23.7499831
09.09.2014 14:42:30.0	202.4	505.8	1.0147	16.73	22.8406799
09.09.2014 14:42:30.1	201.26	505.7	0.9771	16.71	22.4135013
09.09.2014 14:42:30.2	201.43	505.8	0.9134	16.57	21.6705883
09.09.2014 14:42:30.3	201.3	505.9	0.9025	16.76	21.5408979

09.09.2014 14:42:30.4	198.69	505.8	0.9932	16.69	22.5974041
09.09.2014 14:42:30.5	198.91	505.9	0.9592	16.64	22.20725
09.09.2014 14:42:30.6	198.85	506	1.0467	16.58	23.1980409
09.09.2014 14:42:30.7	196.76	506.2	1.0495	16.72	23.2290484
09.09.2014 14:42:30.8	196.27	506.1	0.9974	16.69	22.6451332
09.09.2014 14:42:30.9	196.29	506.1	1.048	16.41	23.2124424
09.09.2014 14:42:31.0	195.85	506.4	1.038	16.61	23.1014305
09.09.2014 14:42:31.1	193.57	506.5	0.9399	16.6	21.9826994
09.09.2014 14:42:31.2	193.8	506.3	0.9715	16.89	22.3491803
09.09.2014 14:42:31.3	193.73	506.3	0.9893	16.71	22.5529939
09.09.2014 14:42:31.4	191.29	506.5	1.093	16.61	23.7055632
09.09.2014 14:42:31.5	191.22	506.6	1.1113	16.76	23.9031895
09.09.2014 14:42:31.6	191.16	506.4	1.0477	16.68	23.2091197
09.09.2014 14:42:31.7	190.44	506.5	0.9695	16.97	22.3261637
09.09.2014 14:42:31.8	188.41	506.7	1.0461	16.46	23.191391
09.09.2014 14:42:31.9	188.67	506.7	1.0583	16.49	23.3262322
09.09.2014 14:42:32.0	188.65	506.6	1.1267	16.68	24.0682406
09.09.2014 14:42:32.1	186.72	506.7	0.995	16.58	22.6178718
09.09.2014 14:42:32.2	186.06	506.7	0.9834	16.72	22.4856424
09.09.2014 14:42:32.3	186.09	506.6	0.931	16.63	21.8783738
09.09.2014 14:42:32.4	185.68	506.6	0.9554	16.63	22.1632179
09.09.2014 14:42:32.5	182.99	506.6	0.9591	16.6	22.2060924
09.09.2014 14:42:32.6	183.24	506.6	0.9613	16.71	22.2315462
09.09.2014 14:42:32.7	183.19	506.4	0.9783	16.83	22.4272603
09.09.2014 14:42:32.8	181.76	506.3	0.9128	16.64	21.6634695
09.09.2014 14:42:32.9	180.56	506.3	0.9731	16.5	22.3675766
09.09.2014 14:42:33.0	180.65	506.3	0.9772	16.79	22.4146482
09.09.2014 14:42:33.1	180.62	506.1	1.0232	16.68	22.936147
09.09.2014 14:42:33.2	178.02	506	1.0411	16.65	23.1359012
09.09.2014 14:42:33.3	178.13	506.1	1.081	16.63	23.5750729
09.09.2014 14:42:33.4	178.07	506.1	1.1044	16.65	23.8288672
09.09.2014 14:42:33.5	177.12	505.9	1.0332	16.83	23.0479549
09.09.2014 14:42:33.6	174.97	505.9	1.0394	16.54	23.1170043
09.09.2014 14:42:33.7	175.22	506.1	1.0428	16.69	23.1547826
09.09.2014 14:42:33.8	175.18	506.1	1.0015	16.72	22.691629
09.09.2014 14:42:33.9	173.09	506	0.9955	16.62	22.6235539
09.09.2014 14:42:34.0	172.59	506	1.0285	16.65	22.9954729
09.09.2014 14:42:34.1	172.65	506.2	1.0447	16.69	23.1758672
09.09.2014 14:42:34.2	172.22	506.1	1.0174	16.73	22.8710479
09.09.2014 14:42:34.3	169.87	505.9	1.013	16.68	22.8215386
09.09.2014 14:42:34.4	170.14	505.9	0.8678	16.56	21.1227287
09.09.2014 14:42:34.5	170.12	505.9	0.8879	16.73	21.3659509
09.09.2014 14:42:34.6	168.25	505.8	1.0485	16.78	23.217979
09.09.2014 14:42:34.7	167.06	505.8	0.9067	16.59	21.5909626
09.09.2014 14:42:34.8	167.22	505.9	0.9424	16.56	22.0119154
09.09.2014 14:42:34.9	167.12	505.9	0.9396	16.72	21.9791909
09.09.2014 14:42:35.0	164.5	505.8	1.0962	16.75	23.7402395
09.09.2014 14:42:35.1	164.7	505.7	0.9526	16.56	22.1307171
09.09.2014 14:42:35.2	164.66	505.9	0.9771	16.63	22.4135013
09.09.2014 14:42:35.3	162.62	506	1.079	16.69	23.5532542
09.09.2014 14:42:35.4	162.06	505.8	1.0076	16.7	22.7606299
09.09.2014 14:42:35.5	162.08	505.7	1.0569	16.61	23.3107983
09.09.2014 14:42:35.6	161.71	505.9	1.031	16.65	23.0234038
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09.09.2014 14:42:35.8	159.6	505.6	1.0229	16.66	22.9327843
09.09.2014 14:42:35.9	159.55	505.6	1.009	16.59	22.7764367
09.09.2014 14:42:36.0	157.17	505.7	0.9679	16.73	22.3077332
09.09.2014 14:42:36.1	157.01	505.6	0.9267	16.7	21.8277906
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09.09.2014 14:42:36.3	155.32	505.5	1.0524	16.63	23.2611197
09.09.2014 14:42:36.4	154.39	505.6	0.94	16.69	21.9838688
09.09.2014 14:42:36.5	154.43	505.5	0.9488	16.74	22.0865323
09.09.2014 14:42:36.6	154.33	505.4	0.9358	16.62	21.9347009
09.09.2014 14:42:36.7	151.8	505.5	0.9932	16.54	22.5974041
09.09.2014 14:42:36.8	151.93	505.6	1.0215	16.72	22.9170854
09.09.2014 14:42:36.9	151.88	505.5	1.0899	16.75	23.6719221
09.09.2014 14:42:37.0	149.81	505.5	0.9553	16.59	22.1620579
09.09.2014 14:42:37.1	149.32	505.6	0.9905	16.57	22.5666679
09.09.2014 14:42:37.2	149.34	505.7	1.0037	16.73	22.7165387
09.09.2014 14:42:37.3	148.93	505.6	1.0194	16.72	22.8935168
09.09.2014 14:42:37.4	146.6	505.5	0.9825	16.57	22.4753507
09.09.2014 14:42:37.5	146.85	505.8	0.9948	16.6	22.6155985

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09.09.2014 14:42:37.7	145.22	505.7	0.9777	16.62	22.4203818
09.09.2014 14:42:37.8	144.11	505.7	0.9657	16.55	22.2823665
09.09.2014 14:42:37.9	144.28	505.9	0.9293	16.72	21.8583898
09.09.2014 14:42:38.0	144.19	506	0.9464	16.67	22.0585806
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09.09.2014 14:42:38.6	138.83	506.3	0.9464	16.6	22.0585806
09.09.2014 14:42:38.7	138.79	506.3	1.023	16.64	22.9339053
09.09.2014 14:42:38.8	136.57	506.3	0.9394	16.68	21.9768516
09.09.2014 14:42:38.9	136.24	506.2	0.9451	16.62	22.0434252
09.09.2014 14:42:39.0	136.27	506.3	0.995	16.55	22.6178718
09.09.2014 14:42:39.1	135.72	506.5	1.0237	16.73	22.9417503
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09.09.2014 14:42:39.3	133.71	506.3	0.9618	16.63	22.2373271
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09.09.2014 14:42:39.6	130.71	506.4	0.9785	16.84	22.4295527
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09.09.2014 14:42:40.2	126.11	506.3	1.0319	16.68	23.0334506
09.09.2014 14:42:40.3	125.67	506.3	1.0755	17	23.5150228
09.09.2014 14:42:40.4	125.72	506.2	1.0145	16.64	22.8384288
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09.09.2014 14:42:40.6	122.98	506.3	1.043	16.72	23.157003
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09.09.2014 14:42:40.8	123.14	506.2	0.9713	16.59	22.3468797
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09.09.2014 14:42:41.0	120.63	506.3	0.9185	16.68	21.7310033
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09.09.2014 14:42:41.2	118.82	506.2	0.9574	16.6	22.1864036
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09.09.2014 14:42:41.7	115.53	506	0.9377	16.52	21.9569572
09.09.2014 14:42:41.8	115.47	506	0.9596	16.79	22.2118799
09.09.2014 14:42:41.9	114.27	505.8	0.949	16.63	22.08886
09.09.2014 14:42:42.0	112.81	505.7	1.0226	16.65	22.9294212
09.09.2014 14:42:42.1	112.97	505.9	1.0232	16.56	22.936147
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09.09.2014 14:42:43.0	105.53	505.8	0.9323	16.72	21.8936434
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09.09.2014 14:42:43.7	100.83	506.1	0.9629	16.76	22.2500397
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09.09.2014 14:42:44.0	99.46	506	0.9892	16.64	22.551854
09.09.2014 14:42:44.1	96.92	506.1	0.9714	16.98	22.3480301
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09.09.2014 14:42:44.3	96.96	505.9	0.9351	16.64	21.9264956
09.09.2014 14:42:44.4	95.15	506.2	1.0681	16.61	23.4339854
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09.09.2014 14:42:44.6	94.39	506.1	0.9686	16.59	22.3157984
09.09.2014 14:42:44.7	94.17	506.2	0.972	16.51	22.3549308

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09.09.2014 14:42:45.0	91.87	506.3	0.9909	16.62	22.571224
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09.09.2014 14:42:45.2	89.3	506.5	0.9839	16.61	22.491358
09.09.2014 14:42:45.3	89.31	506.4	0.9822	16.69	22.4719191
09.09.2014 14:42:45.4	88.75	506.3	0.9733	16.55	22.3698751
09.09.2014 14:42:45.5	86.54	506.4	0.8433	16.47	20.8224222
09.09.2014 14:42:45.6	86.76	506.4	0.8482	16.79	20.882829
09.09.2014 14:42:45.7	86.76	506.2	0.8637	16.68	21.0727715
09.09.2014 14:42:45.8	84.11	506.2	0.9135	16.49	21.6717745
09.09.2014 14:42:45.9	84.24	506.3	0.8915	16.61	21.4092213
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09.09.2014 14:42:46.1	82.3	506.2	0.763	16.61	19.8062596
09.09.2014 14:42:46.2	81.61	506.2	0.8735	16.75	21.1919857
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09.09.2014 14:42:47.1	76.56	506.4	0.974	16.73	22.3779179
09.09.2014 14:42:47.2	74.01	506.4	0.941	16.72	21.9955593
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09.09.2014 14:42:47.8	71.14	506.4	0.9683	16.55	22.3123423
09.09.2014 14:42:47.9	69.06	506.4	0.9769	16.69	22.4112073
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09.09.2014 14:42:48.1	68.59	506.1	0.9325	16.6	21.8959916
09.09.2014 14:42:48.2	68.15	506.3	0.929	16.52	21.8548613
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09.09.2014 14:42:49.8	55.07	506.7	0.9187	16.68	21.7333691
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09.09.2014 14:42:52.1	38.72	507.2	0.8656	16.8	21.0959371
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09.09.2014 14:42:53.1	31.81	507.1	0.9116	16.63	21.6492251
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09.09.2014 14:42:53.7	26.4	507.1	0.8542	17.02	20.9565593
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09.09.2014 14:42:59.6	-18.24	506.8	0.8891	16.82	21.3803841
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09.09.2014 14:43:14.2	-124.75	510.6	1.0291	16.6	23.0021794
09.09.2014 14:43:14.3	-127.67	510.7	0.9441	16.68	22.0317602
09.09.2014 14:43:14.4	-127.46	510.6	0.8682	16.61	21.1275962
09.09.2014 14:43:14.5	-127.54	510.7	0.9296	16.54	21.8619177
09.09.2014 14:43:14.6	-128.62	510.8	0.8965	16.73	21.4691744
09.09.2014 14:43:14.7	-130.19	510.8	0.8414	16.71	20.7989519
09.09.2014 14:43:14.8	-130.04	510.8	0.9442	16.6	22.032927
09.09.2014 14:43:14.9	-130.1	510.8	1.0094	16.55	22.7809509
09.09.2014 14:43:15.0	-131.41	511	0.939	16.69	21.9721722
09.09.2014 14:43:15.1	-132.73	510.9	0.9824	16.74	22.4742069
09.09.2014 14:43:15.2	-132.62	510.9	0.9309	16.57	21.8771988
09.09.2014 14:43:15.3	-132.61	511	0.8935	16.55	21.4332227
09.09.2014 14:43:15.4	-135.45	511	0.9091	16.67	21.6195189
09.09.2014 14:43:15.5	-135.47	510.8	0.8585	16.74	21.0092402
09.09.2014 14:43:15.6	-135.54	510.7	0.9542	16.56	22.1492948
09.09.2014 14:43:15.7	-136.45	510.9	0.949	16.59	22.08886
09.09.2014 14:43:15.8	-138.68	510.9	0.9704	16.67	22.3365241
09.09.2014 14:43:15.9	-138.42	510.8	0.8781	16.67	21.2477127
09.09.2014 14:43:16.0	-138.44	510.8	0.9295	16.53	21.8607418
09.09.2014 14:43:16.1	-139.5	511	0.9068	16.53	21.5921532
09.09.2014 14:43:16.2	-141.13	511	0.8827	16.79	21.303294
09.09.2014 14:43:16.3	-140.93	510.9	0.9337	16.6	21.9100756
09.09.2014 14:43:16.4	-141	510.9	0.985	16.54	22.5039271
09.09.2014 14:43:16.5	-143.24	511	0.9855	16.66	22.509638
09.09.2014 14:43:16.6	-143.5	511	0.9196	16.66	21.744012
09.09.2014 14:43:16.7	-143.54	510.9	0.9079	16.64	21.6052455
09.09.2014 14:43:16.8	-143.54	511.1	0.8333	16.57	20.698596
09.09.2014 14:43:16.9	-146.34	511.2	0.8806	16.65	21.2779379
09.09.2014 14:43:17.0	-146.39	511.2	0.9769	16.73	22.4112073
09.09.2014 14:43:17.1	-146.45	511.2	0.8907	16.63	21.3996132
09.09.2014 14:43:17.2	-148.44	511.3	0.9516	16.63	22.1190981
09.09.2014 14:43:17.3	-149.4	511.5	0.8926	16.72	21.4224254
09.09.2014 14:43:17.4	-149.36	511.4	0.9724	16.84	22.3595301
09.09.2014 14:43:17.5	-149.34	511.3	1.0525	16.52	23.2622249
09.09.2014 14:43:17.6	-151.36	511.5	1.006	16.63	22.7425515
09.09.2014 14:43:17.7	-151.91	511.6	1.0669	16.7	23.4208178
09.09.2014 14:43:17.8	-151.87	511.5	0.9952	16.69	22.6201448
09.09.2014 14:43:17.9	-152.26	511.5	0.9691	16.68	22.3215575
09.09.2014 14:43:18.0	-154.64	511.6	1.0062	16.62	22.7448121
09.09.2014 14:43:18.1	-154.39	511.7	0.972	16.68	22.3549308
09.09.2014 14:43:18.2	-154.43	511.5	0.9698	16.7	22.3296177
09.09.2014 14:43:18.3	-155.1	511.5	0.9626	16.59	22.2465733
09.09.2014 14:43:18.4	-157.59	511.6	0.8644	16.65	21.0813091
09.09.2014 14:43:18.5	-157.24	511.7	0.956	16.72	22.1701761
09.09.2014 14:43:18.6	-157.4	511.5	1.0128	16.63	22.8192856
09.09.2014 14:43:18.7	-160.37	511.5	0.9493	16.72	22.0923512
09.09.2014 14:43:18.8	-160.21	511.6	1.0352	16.59	23.0702515
09.09.2014 14:43:18.9	-160.28	511.6	0.975	16.73	22.3894026
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09.09.2014 14:43:19.2	-162.76	511.7	0.8189	16.57	20.5189736
09.09.2014 14:43:19.3	-162.79	511.7	0.8864	16.72	21.3478956
09.09.2014 14:43:19.4	-164.14	511.6	0.9416	16.71	22.0025705
09.09.2014 14:43:19.5	-165.89	511.8	0.9092	16.36	21.620708
09.09.2014 14:43:19.6	-165.7	511.8	0.9102	16.74	21.6325947
09.09.2014 14:43:19.7	-165.7	511.6	0.984	16.75	22.4925009
09.09.2014 14:43:19.8	-167.17	511.5	1.0111	16.6	22.8001263
09.09.2014 14:43:19.9	-168.39	511.6	0.9887	16.66	22.5461537
09.09.2014 14:43:20.0	-168.21	511.6	1.0362	16.6	23.0813917
09.09.2014 14:43:20.1	-169	511.4	0.9917	16.82	22.5803336
09.09.2014 14:43:20.2	-171.44	511.4	0.9307	16.54	21.8748485
09.09.2014 14:43:20.3	-171.12	511.5	0.9427	16.52	22.0154188
09.09.2014 14:43:20.4	-171.19	511.5	0.8923	16.82	21.4188251
09.09.2014 14:43:20.5	-173.07	511.3	0.9852	16.64	22.5062117
09.09.2014 14:43:20.6	-173.78	511.3	1.0369	16.6	23.0891866
09.09.2014 14:43:20.7	-173.71	511.4	1.0237	16.71	22.9417503

09.09.2014 14:43:20.8	-173.71	511.4	0.9834	16.72	22.4856424
09.09.2014 14:43:20.9	-175.79	511.2	0.9442	16.63	22.032927
09.09.2014 14:43:21.0	-176.26	511.2	0.9561	16.5	22.1713356
09.09.2014 14:43:21.1	-176.27	511.3	1.0204	16.81	22.9047429
09.09.2014 14:43:21.2	-177.76	511.2	0.9945	16.67	22.6121882
09.09.2014 14:43:21.3	-179.34	511.1	0.9514	16.48	22.1167735
09.09.2014 14:43:21.4	-179.18	511.2	1.0124	16.53	22.814779
09.09.2014 14:43:21.5	-179.15	511.2	0.924	16.8	21.7959691
09.09.2014 14:43:21.6	-180.71	511.1	0.9155	16.71	21.6954854
09.09.2014 14:43:21.7	-181.81	511	0.9679	16.58	22.3077332
09.09.2014 14:43:21.8	-181.73	511.2	0.9925	16.57	22.5894395
09.09.2014 14:43:21.9	-181.76	511.3	0.9891	16.68	22.5507141
09.09.2014 14:43:22.0	-184.39	511.1	0.922	16.79	21.7723676
09.09.2014 14:43:22.1	-184.28	511.2	0.9	16.59	21.5110422
09.09.2014 14:43:22.2	-184.26	511.4	0.8622	16.76	21.0544648
09.09.2014 14:43:22.3	-184.53	511.5	0.985	16.98	22.5039271
09.09.2014 14:43:22.4	-187.36	511.3	0.9845	16.57	22.4982147
09.09.2014 14:43:22.5	-187.16	511.3	1.0088	16.82	22.7741792
09.09.2014 14:43:22.6	-187.19	511.4	1.0183	16.38	22.8811616
09.09.2014 14:43:22.7	-189.72	511.4	0.9622	16.67	22.2419507
09.09.2014 14:43:22.8	-190.11	511.3	1.0084	16.6	22.7696637
09.09.2014 14:43:22.9	-190.1	511.3	0.9879	16.61	22.5370304
09.09.2014 14:43:23.0	-190.64	511.4	0.9359	16.68	21.9358729
09.09.2014 14:43:23.1	-192.79	511.4	0.9624	16.77	22.2442621
09.09.2014 14:43:23.2	-192.61	511.4	0.954	16.6	22.1469734
09.09.2014 14:43:23.3	-192.62	511.5	0.9216	16.57	21.7676442
09.09.2014 14:43:23.4	-194.31	511.6	0.9013	16.73	21.5265723
09.09.2014 14:43:23.5	-195.25	511.6	0.9756	16.78	22.3962905
09.09.2014 14:43:23.6	-195.21	511.5	0.9048	16.47	21.5683287
09.09.2014 14:43:23.7	-196.08	511.7	0.9539	16.56	22.1458127
09.09.2014 14:43:23.8	-197.91	511.8	0.9807	16.69	22.4547531
09.09.2014 14:43:23.9	-197.7	511.7	0.9078	16.66	21.6040556
09.09.2014 14:43:24.0	-197.72	511.7	1.0154	16.66	22.848557
09.09.2014 14:43:24.1	-198.89	511.9	0.936	16.68	21.9370448
09.09.2014 14:43:24.2	-200.43	511.9	0.8589	16.7	21.0141341
09.09.2014 14:43:24.3	-200.26	511.8	0.8199	16.6	20.5314982
09.09.2014 14:43:24.4	-200.83	511.7	0.9245	16.72	21.8018654
09.09.2014 14:43:24.5	-203.43	511.9	0.9439	16.61	22.0294265
09.09.2014 14:43:24.6	-203.13	511.9	0.9853	16.7	22.5073538
09.09.2014 14:43:24.7	-203.15	511.7	0.8636	16.69	21.0715515
09.09.2014 14:43:24.8	-203.84	511.7	0.8686	16.65	21.1324626
09.09.2014 14:43:24.9	-205.91	511.8	0.8713	16.7	21.1652818
09.09.2014 14:43:25.0	-205.68	511.8	0.945	16.76	22.042259
09.09.2014 14:43:25.1	-205.77	511.7	0.9026	16.59	21.5420913
09.09.2014 14:43:25.2	-207.85	511.7	0.8347	16.66	20.7159762
09.09.2014 14:43:25.3	-208.66	511.8	0.92	16.73	21.7487405
09.09.2014 14:43:25.4	-208.65	511.7	0.9652	16.75	22.2765973
09.09.2014 14:43:25.5	-208.64	511.6	0.9162	16.56	21.7037781
09.09.2014 14:43:25.6	-210.68	511.7	0.9077	16.63	21.6028657
09.09.2014 14:43:25.7	-211.2	511.7	1.0343	16.69	23.0602207
09.09.2014 14:43:25.8	-211.21	511.6	1.0281	16.72	22.9910008
09.09.2014 14:43:25.9	-211.7	511.5	0.9854	16.87	22.508496
09.09.2014 14:43:26.0	-214.29	511.6	0.968	16.54	22.3088856
09.09.2014 14:43:26.1	-214.07	511.7	1.1228	16.71	24.0265492
09.09.2014 14:43:26.2	-214.07	511.6	1.0812	16.68	23.5772536
09.09.2014 14:43:26.3	-216.61	511.6	0.9602	16.63	22.2188229
09.09.2014 14:43:26.4	-216.63	511.8	0.9367	16.63	21.9452462
09.09.2014 14:43:26.5	-216.61	512	0.977	16.69	22.4123543
09.09.2014 14:43:26.6	-216.66	511.8	0.7812	16.69	20.0410889
09.09.2014 14:43:26.7	-217.6	511.9	0.8829	16.58	21.3057073
09.09.2014 14:43:26.8	-217.49	512.1	0.8663	16.69	21.1044653
09.09.2014 14:43:26.9	-217.5	512.2	0.9098	16.69	21.6278408
09.09.2014 14:43:27.0	-217.52	512.1	0.9025	16.67	21.5408979
09.09.2014 14:43:27.1	-217.5	512.2	0.902	16.58	21.5349301
09.09.2014 14:43:27.2	-217.46	512.3	0.9191	16.69	21.7380999
09.09.2014 14:43:27.3	-217.54	512.3	0.9124	16.65	21.6587224
09.09.2014 14:43:27.4	-217.51	512.2	0.9787	16.61	22.4318448
09.09.2014 14:43:27.5	-217.51	512.2	1.0038	16.68	22.7176703
09.09.2014 14:43:27.6	-217.52	512.3	0.8789	16.67	21.2573895
09.09.2014 14:43:27.7	-217.5	512.3	0.8752	16.72	21.2125975
09.09.2014 14:43:27.8	-217.49	512.3	0.9199	16.61	21.7475584
09.09.2014 14:43:27.9	-217.49	512.4	0.9979	16.45	22.6508085

09.09.2014 14:43:28.0	-217.47	512.5	0.9377	16.79	21.9569572
09.09.2014 14:43:28.1	-217.51	512.4	1.0085	16.72	22.7707926
09.09.2014 14:43:28.2	-217.55	512.4	0.9411	16.6	21.996728
09.09.2014 14:43:28.3	-217.52	512.6	0.9045	16.68	21.5647527
09.09.2014 14:43:28.4	-217.48	512.7	0.9187	16.68	21.7333691
09.09.2014 14:43:28.5	-217.43	512.5	1.0453	16.69	23.1825216
09.09.2014 14:43:28.6	-217.44	512.5	0.9565	16.57	22.175973
09.09.2014 14:43:28.7	-217.42	512.8	0.9085	16.62	21.6123834
09.09.2014 14:43:28.8	-217.42	512.8	1.0013	16.73	22.6893631
09.09.2014 14:43:28.9	-217.44	512.7	1.0552	16.66	23.2920433
09.09.2014 14:43:29.0	-217.44	512.8	1.0462	16.63	23.1924995
09.09.2014 14:43:29.1	-217.45	513	0.8549	16.6	20.9651443
09.09.2014 14:43:29.2	-217.43	513.1	0.8442	16.75	20.8335304

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

$$y = -2.614843E-14x^6 + 1.624872E-12x^5 + 9.095019E-10x^4 - 1.476181E-08x^3 + 4.388000E-05x^2 - 2.244954E-04x + 2.087990E+01$$

Please enter below Polynomial Coefficients

Order no	Coeff
6	-2.614843E-14
5	1.624872E-12
4	9.095019E-10
3	-1.476181E-08
2	4.388000E-05
1	-2.244954E-04
0	2.087990E+01

Polynomial curve (dP vs position)

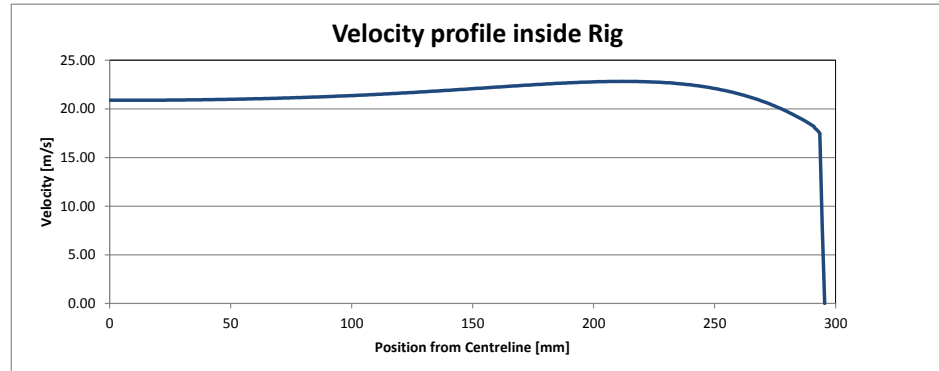
Please do NOT alter any of the figures below

position [mm]	Velocity [m/s]
0	20.879900
1	20.879719
2	20.879626
3	20.879621
4	20.879703
5	20.879873
6	20.880131
7	20.880476
8	20.880909
9	20.881429
10	20.882038
11	20.882734
12	20.883518
13	20.884391
14	20.885353
15	20.886403
16	20.887542
17	20.888770
18	20.890088
19	20.891495
20	20.892993
21	20.894581
22	20.896260
23	20.898031
24	20.899893
25	20.901847
26	20.903893
27	20.906033
28	20.908266
29	20.910594
30	20.913016
31	20.915533
32	20.918146
33	20.920855
34	20.923661
35	20.926565
36	20.929567
37	20.932668
38	20.935868
39	20.939169
40	20.942571

Actual Area	0.274324656	[m2]
Integrated area	0.274324656	[m2]
Area Error	0	[%]
Integrated Mass flow	2.284109091	[Kg/s]

Delta Area [m2]	Delta Mass flow [Kg/s]
0	0
3.14159E-06	2.55167E-05
9.42478E-06	7.65497E-05
1.5708E-05	0.000127583
2.19911E-05	0.000178617
2.82743E-05	0.000229652
3.45575E-05	0.000280689
4.08407E-05	0.000331729
4.71239E-05	0.000382772
5.34071E-05	0.000433819
5.96903E-05	0.000484871
6.59734E-05	0.000535928
7.22566E-05	0.00058699
7.85398E-05	0.00063806
8.4823E-05	0.000689136
9.11062E-05	0.000740221
9.73894E-05	0.000791313
0.000103673	0.000842415
0.000109956	0.000893527
0.000116239	0.00094465
0.000122522	0.000995783
0.000128805	0.001046928
0.000135088	0.001098086
0.000141372	0.001149258
0.000147655	0.001200443
0.000153938	0.001251642
0.000160221	0.001302857
0.000166504	0.001354088
0.000172788	0.001405336
0.000179071	0.001456601
0.000185354	0.001507885
0.000191637	0.001559187
0.00019792	0.001610509
0.000204204	0.001661852
0.000210487	0.001713215
0.00021677	0.001764601
0.000223053	0.001816009
0.000229336	0.001867441
0.000235619	0.001918897
0.000241903	0.001970378
0.000248186	0.002021886

Based on density in input/output



41	20.946075
42	20.949681
43	20.953390
44	20.957204
45	20.961122
46	20.965146
47	20.969276
48	20.973513
49	20.977859
50	20.982314
51	20.986878
52	20.991553
53	20.996339
54	21.001238
55	21.006250
56	21.011376
57	21.016618
58	21.021975
59	21.027449
60	21.033040
61	21.038751
62	21.044580
63	21.050530
64	21.056602
65	21.062795
66	21.069112
67	21.075552
68	21.082117
69	21.088808
70	21.095626
71	21.102570
72	21.109643
73	21.116845
74	21.124177
75	21.131639
76	21.139233
77	21.146959
78	21.154818
79	21.162810
80	21.170937
81	21.179199
82	21.187597
83	21.196130
84	21.204801
85	21.213610
86	21.222556
87	21.231641
88	21.240865
89	21.250229
90	21.259733
91	21.269377
92	21.279162
93	21.289088
94	21.299155
95	21.309364
96	21.319715
97	21.330208

0.000254469	0.002073419
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0.000267035	0.00217657
0.000273319	0.002228189
0.000279602	0.002279838
0.000285885	0.002331518
0.000292168	0.002383229
0.000298451	0.002434974
0.000304734	0.002486751
0.000311018	0.002538564
0.000317301	0.002590411
0.000323584	0.002642295
0.000329867	0.002694216
0.00033615	0.002746175
0.000342434	0.002798173
0.000348717	0.002850211
0.000355	0.00290229
0.000361283	0.00295441
0.000367566	0.003006574
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0.000386416	0.003163333
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0.000398982	0.003268071
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0.000417832	0.003425548
0.000424115	0.003478143
0.000430398	0.003530792
0.000436681	0.003583494
0.000442965	0.003636252
0.000449248	0.003689066
0.000455531	0.003741937
0.000461814	0.003794867
0.000468097	0.003847857
0.00047438	0.003900907
0.000480664	0.00395402
0.000486947	0.004007195
0.00049323	0.004060434
0.000499513	0.004113739
0.000505796	0.004167109
0.00051208	0.004220547
0.000518363	0.004274054
0.000524646	0.00432763
0.000530929	0.004381277
0.000537212	0.004434996
0.000543496	0.004488788
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117	21.569645
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121	21.624072
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123	21.652048
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0.001448274	0.012773508
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0.001473407	0.012949375
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281	19.598336
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284	19.215807
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0.001818982	0.012989061
0.001825265	0.012923158
0.000914989	0.006406752
0.00183469	0.012703761
0.001840973	0.012532426
0.001847256	0.005748662
0.00185354	0

Please do not change any of the values in this sheet

Patm	Atmpspheric air pressure - (As recorded from engine data)	975 [mBar]
Patm		97500 [Pa]
Tatm		10 [C]
Tatm		283 [K]
Relative Humidity		73 [%]

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

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)

$$\rho_{\text{humid air}} = 1.196065 \text{ Kg/m}^3$$

$$0.344512597$$

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

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

$$p_u = 896.3612 \text{ [Pa]}$$

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:

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

$$p_{\text{sat}} = 12.27892 \text{ hPa}$$

$$p_{\text{sat}} = 1227.892 \text{ [Pa]}$$

where T is in degrees C. Note:

$$\rho = \frac{p}{R_{\text{specific}} T} \quad 1.20019 \text{ [kg/m}^3\text{]}$$

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

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

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