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Lampiran 1 Data Pasang Surut Hasil Pengukuran dan Hasil Simulasi

Actual	Forecast	Error	Absolute Value of Error	Square Error	Absolute Values of Errors Divided by Actual Values
A_t	F_t	$A_t - F_t$	$ A_t - F_t $	$(A_t - F_t)^2$	$ (A_t - F_t)/A_t $
0.211	0.274	-0.063	0.06	0.003909	0.295621
0.201	0.215	-0.014	0.01	0.000191	0.068658
0.191	0.209	-0.017	0.02	0.000305	0.091227
0.201	0.207	-0.005	0.01	0.000029	0.026863
0.211	0.220	-0.009	0.01	0.000080	0.042294
0.201	0.211	-0.010	0.01	0.000094	0.048006
0.141	0.150	-0.008	0.01	0.000072	0.060010
0.081	0.090	-0.008	0.01	0.000070	0.102658
-0.069	-0.059	-0.009	0.01	0.000089	0.137927
-0.209	-0.200	-0.009	0.01	0.000081	0.043240
-0.389	-0.380	-0.009	0.01	0.000077	0.022548
-0.479	-0.469	-0.009	0.01	0.000088	0.019559
-0.509	-0.500	-0.009	0.01	0.000080	0.017552
-0.529	-0.520	-0.008	0.01	0.000065	0.015224
-0.399	-0.391	-0.007	0.01	0.000056	0.018818
-0.239	-0.230	-0.009	0.01	0.000078	0.036955
-0.059	-0.049	-0.009	0.01	0.000082	0.154978
0.121	0.130	-0.008	0.01	0.000066	0.066803
0.241	0.251	-0.009	0.01	0.000084	0.038058
0.321	0.330	-0.009	0.01	0.000073	0.026612
0.351	0.360	-0.008	0.01	0.000072	0.024144
0.331	0.340	-0.008	0.01	0.000068	0.024838
0.311	0.320	-0.009	0.01	0.000077	0.028205
0.221	0.230	-0.009	0.01	0.000078	0.040000
0.181	0.189	-0.008	0.01	0.000057	0.041472
0.161	0.170	-0.009	0.01	0.000077	0.054312
0.171	0.180	-0.009	0.01	0.000075	0.050497
0.171	0.180	-0.008	0.01	0.000069	0.048409
0.171	0.180	-0.009	0.01	0.000074	0.050031
0.171	0.180	-0.009	0.01	0.000074	0.050229
0.121	0.130	-0.009	0.01	0.000080	0.073783
0.071	0.080	-0.009	0.01	0.000074	0.120360
-0.019	-0.010	-0.008	0.01	0.000072	0.457116
-0.159	-0.149	-0.009	0.01	0.000085	0.058021
-0.289	-0.280	-0.009	0.01	0.000077	0.030335
-0.359	-0.350	-0.009	0.01	0.000081	0.025149
-0.429	-0.419	-0.009	0.01	0.000085	0.021566
-0.399	-0.389	-0.010	0.01	0.000097	0.024690
-0.309	-0.299	-0.010	0.01	0.000094	0.031435
-0.199	-0.189	-0.010	0.01	0.000095	0.049186
-0.029	-0.020	-0.009	0.01	0.000074	0.302144
0.061	0.071	-0.009	0.01	0.000086	0.150699
0.161	0.170	-0.009	0.01	0.000075	0.053463

0.211	0.220	-0.008	0.01	0.000071	0.039849
0.251	0.260	-0.009	0.01	0.000080	0.035594
0.271	0.280	-0.008	0.01	0.000072	0.031171
0.211	0.220	-0.009	0.01	0.000075	0.040899
0.171	0.180	-0.008	0.01	0.000069	0.048526
0.151	0.160	-0.008	0.01	0.000067	0.053943
0.141	0.150	-0.009	0.01	0.000081	0.063693
0.111	0.120	-0.009	0.01	0.000074	0.077334
0.111	0.119	-0.008	0.01	0.000063	0.070929
0.121	0.130	-0.009	0.01	0.000072	0.069989
0.091	0.101	-0.009	0.01	0.000088	0.102538
0.081	0.090	-0.008	0.01	0.000072	0.104134
0.021	0.030	-0.008	0.01	0.000071	0.391726
-0.019	-0.010	-0.009	0.01	0.000078	0.477497
-0.109	-0.100	-0.009	0.01	0.000081	0.082919
-0.209	-0.200	-0.009	0.01	0.000078	0.042242
-0.239	-0.230	-0.009	0.01	0.000080	0.037571
-0.259	-0.249	-0.009	0.01	0.000090	0.036641
-0.259	-0.249	-0.009	0.01	0.000085	0.035759
-0.199	-0.189	-0.009	0.01	0.000086	0.046713
-0.089	-0.079	-0.009	0.01	0.000082	0.102085
-0.019	-0.010	-0.008	0.01	0.000071	0.455102
0.071	0.080	-0.008	0.01	0.000067	0.114242
0.111	0.120	-0.009	0.01	0.000081	0.080716
0.171	0.180	-0.009	0.01	0.000081	0.052561
0.171	0.180	-0.008	0.01	0.000069	0.048608
0.171	0.180	-0.009	0.01	0.000080	0.052165
0.151	0.160	-0.008	0.01	0.000070	0.055072
0.161	0.170	-0.008	0.01	0.000070	0.051797
0.131	0.140	-0.009	0.01	0.000081	0.068567
0.101	0.110	-0.009	0.01	0.000075	0.085359
0.121	0.129	-0.008	0.01	0.000057	0.062136
0.111	0.120	-0.009	0.01	0.000081	0.080554
0.081	0.091	-0.010	0.01	0.000094	0.119049
0.041	0.050	-0.008	0.01	0.000065	0.194824
-0.009	0.000	-0.009	0.01	0.000074	1.008511
-0.009	-0.001	-0.008	0.01	0.000060	0.907895
-0.109	-0.099	-0.009	0.01	0.000088	0.086256
-0.139	-0.130	-0.008	0.01	0.000069	0.059778
-0.179	-0.169	-0.010	0.01	0.000092	0.053649
-0.229	-0.220	-0.008	0.01	0.000071	0.036944
-0.199	-0.190	-0.009	0.01	0.000075	0.043509
-0.139	-0.129	-0.009	0.01	0.000090	0.068542
-0.099	-0.089	-0.009	0.01	0.000083	0.092445
0.001	0.009	-0.008	0.01	0.000060	5.234364
0.061	0.070	-0.008	0.01	0.000070	0.136127
0.101	0.111	-0.009	0.01	0.000090	0.093271
0.081	0.091	-0.009	0.01	0.000086	0.114049
0.121	0.129	-0.008	0.01	0.000064	0.065725

0.111	0.120	-0.008	0.01	0.000068	0.073773
0.081	0.091	-0.010	0.01	0.000100	0.122713
0.071	0.079	-0.008	0.01	0.000058	0.106426
0.061	0.070	-0.008	0.01	0.000071	0.136737
0.061	0.070	-0.008	0.01	0.000070	0.136505
0.051	0.060	-0.009	0.01	0.000081	0.175011
0.041	0.050	-0.009	0.01	0.000076	0.209775
0.031	0.040	-0.008	0.01	0.000070	0.264911
0.001	0.010	-0.009	0.01	0.000077	5.915523
-0.029	-0.020	-0.009	0.01	0.000076	0.306355
-0.079	-0.070	-0.009	0.01	0.000080	0.114090
-0.129	-0.120	-0.009	0.01	0.000078	0.068615
-0.149	-0.140	-0.009	0.01	0.000074	0.057914
-0.179	-0.170	-0.009	0.01	0.000078	0.049381
-0.169	-0.160	-0.008	0.01	0.000067	0.048685
-0.149	-0.140	-0.009	0.01	0.000078	0.059281
-0.109	-0.100	-0.008	0.01	0.000065	0.074295
-0.029	-0.021	-0.008	0.01	0.000063	0.277261
0.071	0.079	-0.008	0.01	0.000059	0.107488
0.141	0.151	-0.009	0.01	0.000088	0.066138
0.171	0.181	-0.009	0.01	0.000085	0.053839
0.191	0.200	-0.008	0.01	0.000065	0.042068
0.181	0.190	-0.009	0.01	0.000078	0.048729
0.141	0.150	-0.009	0.01	0.000081	0.063587
0.101	0.110	-0.008	0.01	0.000067	0.080855
0.071	0.080	-0.008	0.01	0.000068	0.115173
0.031	0.040	-0.009	0.01	0.000079	0.283166
-0.009	0.000	-0.009	0.01	0.000078	1.034372
-0.009	0.000	-0.008	0.01	0.000065	0.949152
-0.009	-0.001	-0.008	0.01	0.000064	0.938019
0.001	0.010	-0.008	0.01	0.000069	5.596855
-0.039	-0.029	-0.009	0.01	0.000085	0.239801
-0.049	-0.040	-0.009	0.01	0.000077	0.181441
-0.099	-0.089	-0.009	0.01	0.000085	0.093743
-0.199	-0.190	-0.009	0.01	0.000076	0.043962
-0.229	-0.220	-0.009	0.01	0.000075	0.037823
-0.229	-0.219	-0.009	0.01	0.000087	0.040869
-0.239	-0.229	-0.009	0.01	0.000083	0.038208
-0.229	-0.220	-0.009	0.01	0.000077	0.038524
-0.159	-0.150	-0.009	0.01	0.000081	0.056879
-0.089	-0.080	-0.009	0.01	0.000077	0.099392
0.031	0.039	-0.008	0.01	0.000057	0.239687
0.151	0.160	-0.008	0.01	0.000066	0.053481
0.251	0.261	-0.010	0.01	0.000092	0.038151
0.301	0.310	-0.008	0.01	0.000065	0.026649
0.311	0.320	-0.009	0.01	0.000075	0.027752
0.261	0.270	-0.009	0.01	0.000077	0.033526
0.181	0.190	-0.008	0.01	0.000069	0.045803
0.121	0.130	-0.008	0.01	0.000072	0.069717

0.081	0.090	-0.008	0.01	0.000069	0.101962
0.001	0.011	-0.009	0.01	0.000084	6.168751
-0.019	-0.010	-0.008	0.01	0.000066	0.439026
-0.049	-0.040	-0.008	0.01	0.000066	0.167669
-0.049	-0.041	-0.008	0.01	0.000061	0.161117
-0.059	-0.050	-0.009	0.01	0.000074	0.146939
-0.079	-0.070	-0.008	0.01	0.000071	0.107286
-0.129	-0.119	-0.009	0.01	0.000088	0.073097
-0.179	-0.170	-0.009	0.01	0.000074	0.048294
-0.249	-0.239	-0.009	0.01	0.000083	0.036578
-0.299	-0.290	-0.009	0.01	0.000075	0.028954
-0.329	-0.320	-0.009	0.01	0.000075	0.026401
-0.319	-0.309	-0.009	0.01	0.000086	0.029042
-0.259	-0.249	-0.010	0.01	0.000091	0.036869
-0.189	-0.179	-0.010	0.01	0.000091	0.050623
-0.079	-0.070	-0.009	0.01	0.000078	0.112615
0.071	0.079	-0.008	0.01	0.000063	0.110700
0.221	0.230	-0.008	0.01	0.000071	0.038118
0.341	0.351	-0.009	0.01	0.000084	0.026846
0.421	0.430	-0.008	0.01	0.000067	0.019380
0.421	0.430	-0.008	0.01	0.000065	0.019174
0.401	0.410	-0.009	0.01	0.000073	0.021324
0.311	0.320	-0.008	0.01	0.000071	0.027017
0.171	0.180	-0.008	0.01	0.000068	0.048240
0.091	0.100	-0.008	0.01	0.000066	0.088676
0.061	0.069	-0.008	0.01	0.000059	0.125285
-0.049	-0.039	-0.010	0.01	0.000094	0.199758
-0.079	-0.070	-0.008	0.01	0.000071	0.107689
-0.119	-0.110	-0.009	0.01	0.000081	0.076016
-0.149	-0.141	-0.008	0.01	0.000062	0.052965
-0.189	-0.180	-0.009	0.01	0.000081	0.047631
-0.209	-0.200	-0.008	0.01	0.000069	0.039801
-0.239	-0.230	-0.009	0.01	0.000076	0.036477
-0.339	-0.330	-0.009	0.01	0.000077	0.025890
-0.399	-0.390	-0.008	0.01	0.000071	0.021199
-0.459	-0.450	-0.009	0.01	0.000077	0.019112
-0.419	-0.409	-0.010	0.01	0.000099	0.023730
-0.349	-0.339	-0.009	0.01	0.000087	0.026835
-0.239	-0.229	-0.009	0.01	0.000085	0.038648
-0.119	-0.110	-0.009	0.01	0.000080	0.075493
0.081	0.089	-0.008	0.01	0.000062	0.096906
0.241	0.250	-0.009	0.01	0.000074	0.035623
0.431	0.440	-0.009	0.01	0.000080	0.020790
0.531	0.539	-0.008	0.01	0.000058	0.014302
0.551	0.559	-0.008	0.01	0.000058	0.013760
0.521	0.529	-0.008	0.01	0.000057	0.014467
0.401	0.409	-0.008	0.01	0.000063	0.019807
0.261	0.270	-0.009	0.01	0.000077	0.033529
0.151	0.160	-0.008	0.01	0.000071	0.055553

0.091	0.099	-0.008	0.01	0.000062	0.085898
-0.009	0.001	-0.009	0.01	0.000082	1.062043
-0.059	-0.050	-0.009	0.01	0.000074	0.146919
-0.129	-0.120	-0.009	0.01	0.000078	0.068934
-0.179	-0.170	-0.008	0.01	0.000067	0.045700
-0.219	-0.210	-0.009	0.01	0.000081	0.041252
-0.249	-0.240	-0.009	0.01	0.000076	0.034969
-0.319	-0.310	-0.009	0.01	0.000077	0.027491
-0.409	-0.400	-0.009	0.01	0.000074	0.021008
-0.509	-0.500	-0.009	0.01	0.000077	0.017217
-0.569	-0.559	-0.009	0.01	0.000087	0.016385
-0.559	-0.550	-0.009	0.01	0.000073	0.015338
-0.479	-0.470	-0.009	0.01	0.000073	0.017814
-0.379	-0.370	-0.009	0.01	0.000075	0.022932
-0.189	-0.179	-0.009	0.01	0.000082	0.048140
-0.009	0.000	-0.009	0.01	0.000079	1.044762
0.221	0.229	-0.008	0.01	0.000058	0.034384
0.401	0.410	-0.009	0.01	0.000077	0.021915
0.591	0.600	-0.008	0.01	0.000071	0.014263
0.611	0.617	-0.006	0.01	0.000031	0.009128
0.621	0.631	-0.009	0.01	0.000084	0.014723
0.531	0.539	-0.007	0.01	0.000053	0.013662
0.391	0.399	-0.008	0.01	0.000063	0.020265
0.281	0.290	-0.009	0.01	0.000079	0.031641
0.161	0.170	-0.009	0.01	0.000080	0.055290
0.101	0.109	-0.007	0.01	0.000056	0.073731
0.001	0.010	-0.009	0.01	0.000074	5.797278
-0.089	-0.079	-0.009	0.01	0.000083	0.103176
-0.159	-0.150	-0.009	0.01	0.000076	0.055176
-0.209	-0.200	-0.009	0.01	0.000075	0.041542
-0.249	-0.240	-0.009	0.01	0.000080	0.035878
-0.359	-0.350	-0.009	0.01	0.000074	0.023930
-0.459	-0.450	-0.008	0.01	0.000069	0.018150
-0.579	-0.570	-0.009	0.01	0.000074	0.014844
-0.649	-0.640	-0.009	0.01	0.000078	0.013652
-0.679	-0.670	-0.008	0.01	0.000070	0.012292
-0.619	-0.610	-0.009	0.01	0.000074	0.013871
-0.459	-0.450	-0.008	0.01	0.000069	0.018157
-0.319	-0.311	-0.008	0.01	0.000063	0.024995
-0.069	-0.060	-0.008	0.01	0.000066	0.118362
0.121	0.130	-0.009	0.01	0.000074	0.070836
0.391	0.400	-0.009	0.01	0.000072	0.021734
0.541	0.548	-0.007	0.01	0.000048	0.012751
0.671	0.680	-0.009	0.01	0.000077	0.013081
0.701	0.708	-0.006	0.01	0.000042	0.009254
0.651	0.658	-0.006	0.01	0.000038	0.009425
0.511	0.519	-0.008	0.01	0.000062	0.015430
0.371	0.380	-0.009	0.01	0.000076	0.023426
0.311	0.321	-0.009	0.01	0.000084	0.029476

0.161	0.170	-0.009	0.01	0.000076	0.054021
0.071	0.079	-0.008	0.01	0.000059	0.107297
0.021	0.029	-0.007	0.01	0.000050	0.328030
-0.069	-0.059	-0.009	0.01	0.000087	0.135995
-0.159	-0.150	-0.009	0.01	0.000078	0.055756
-0.239	-0.229	-0.009	0.01	0.000083	0.038145
-0.329	-0.320	-0.009	0.01	0.000075	0.026404
-0.449	-0.440	-0.008	0.01	0.000066	0.018154
-0.559	-0.550	-0.009	0.01	0.000076	0.015647
-0.689	-0.680	-0.009	0.01	0.000075	0.012539
-0.769	-0.760	-0.009	0.01	0.000073	0.011110
-0.739	-0.729	-0.010	0.01	0.000096	0.013249
-0.629	-0.620	-0.009	0.01	0.000080	0.014252
-0.409	-0.400	-0.009	0.01	0.000081	0.022061
-0.209	-0.200	-0.008	0.01	0.000071	0.040482
0.011	0.020	-0.009	0.01	0.000074	0.751540
0.271	0.280	-0.008	0.01	0.000067	0.030062
0.511	0.520	-0.009	0.01	0.000072	0.016627
0.681	0.689	-0.008	0.01	0.000056	0.011006
0.731	0.738	-0.006	0.01	0.000042	0.008829
0.741	0.749	-0.007	0.01	0.000051	0.009589
0.611	0.618	-0.006	0.01	0.000042	0.010596
0.481	0.490	-0.008	0.01	0.000070	0.017358
0.351	0.360	-0.008	0.01	0.000072	0.024167
0.271	0.281	-0.009	0.01	0.000083	0.033580
0.191	0.200	-0.008	0.01	0.000066	0.042533
0.121	0.130	-0.008	0.01	0.000072	0.069701
0.051	0.060	-0.008	0.01	0.000070	0.162457
-0.069	-0.059	-0.009	0.01	0.000086	0.135128
-0.129	-0.120	-0.008	0.01	0.000070	0.065021
-0.219	-0.209	-0.009	0.01	0.000084	0.041820
-0.389	-0.380	-0.008	0.01	0.000067	0.021130
-0.509	-0.500	-0.009	0.01	0.000074	0.016970
-0.709	-0.700	-0.009	0.01	0.000073	0.012064
-0.799	-0.790	-0.008	0.01	0.000066	0.010206
-0.849	-0.839	-0.009	0.01	0.000087	0.010992
-0.719	-0.711	-0.008	0.01	0.000057	0.010526
-0.569	-0.559	-0.010	0.01	0.000092	0.016899
-0.369	-0.360	-0.009	0.01	0.000080	0.024276
-0.109	-0.100	-0.009	0.01	0.000076	0.080081
0.121	0.130	-0.009	0.01	0.000080	0.073619
0.411	0.420	-0.008	0.01	0.000068	0.020099
0.581	0.588	-0.007	0.01	0.000048	0.011944
0.681	0.689	-0.008	0.01	0.000064	0.011765
0.681	0.688	-0.007	0.01	0.000043	0.009669
0.611	0.618	-0.007	0.01	0.000045	0.010949
0.511	0.520	-0.009	0.01	0.000074	0.016822
0.381	0.390	-0.008	0.01	0.000069	0.021729
0.331	0.341	-0.009	0.01	0.000089	0.028398

0.251	0.260	-0.008	0.01	0.000068	0.032819
0.211	0.219	-0.008	0.01	0.000058	0.036142
0.151	0.161	-0.010	0.01	0.000091	0.062967
0.101	0.110	-0.008	0.01	0.000070	0.082225
0.021	0.030	-0.008	0.01	0.000070	0.389501
-0.109	-0.100	-0.009	0.01	0.000080	0.082548
-0.239	-0.230	-0.009	0.01	0.000076	0.036531
-0.419	-0.410	-0.008	0.01	0.000071	0.020162
-0.609	-0.600	-0.009	0.01	0.000074	0.014160
-0.749	-0.740	-0.009	0.01	0.000077	0.011702
-0.839	-0.830	-0.009	0.01	0.000074	0.010280
-0.819	-0.810	-0.009	0.01	0.000076	0.010673
-0.669	-0.659	-0.009	0.01	0.000082	0.013542
-0.489	-0.480	-0.009	0.01	0.000073	0.017439
-0.239	-0.230	-0.009	0.01	0.000079	0.037156
0.011	0.020	-0.009	0.01	0.000079	0.775413
0.221	0.230	-0.009	0.01	0.000074	0.038826
0.451	0.460	-0.009	0.01	0.000074	0.019025
0.601	0.609	-0.008	0.01	0.000056	0.012486
0.641	0.649	-0.007	0.01	0.000052	0.011274
0.591	0.598	-0.007	0.01	0.000049	0.011830
0.521	0.530	-0.008	0.01	0.000068	0.015813
0.401	0.410	-0.008	0.01	0.000066	0.020223
0.331	0.341	-0.009	0.01	0.000088	0.028334
0.291	0.300	-0.008	0.01	0.000069	0.028428
0.221	0.230	-0.008	0.01	0.000067	0.037088
0.241	0.250	-0.009	0.01	0.000075	0.035797
0.161	0.172	-0.010	0.01	0.000103	0.062901
0.141	0.149	-0.007	0.01	0.000051	0.050659
0.041	0.051	-0.010	0.01	0.000100	0.241213
-0.099	-0.101	0.002	0.00	0.000005	0.021536
-0.229	-0.224	-0.005	0.00	0.000023	0.020770
-0.439	-0.430	-0.009	0.01	0.000079	0.020271
-0.619	-0.609	-0.009	0.01	0.000087	0.015100
-0.729	-0.720	-0.008	0.01	0.000072	0.011654
-0.799	-0.790	-0.009	0.01	0.000079	0.011117
-0.719	-0.711	-0.008	0.01	0.000062	0.010984
-0.569	-0.559	-0.009	0.01	0.000087	0.016389
-0.359	-0.350	-0.009	0.01	0.000077	0.024474
-0.109	-0.100	-0.009	0.01	0.000076	0.080143
0.121	0.130	-0.009	0.01	0.000077	0.072400
0.321	0.330	-0.009	0.01	0.000075	0.026892
0.481	0.490	-0.008	0.01	0.000066	0.016932
0.571	0.579	-0.008	0.01	0.000058	0.013364
0.581	0.589	-0.008	0.01	0.000056	0.012919
0.521	0.529	-0.008	0.01	0.000060	0.014831
0.381	0.389	-0.008	0.01	0.000062	0.020699
0.311	0.321	-0.009	0.01	0.000084	0.029351
0.261	0.270	-0.009	0.01	0.000077	0.033533

0.241	0.249	-0.008	0.01	0.000056	0.031126
0.261	0.271	-0.009	0.01	0.000087	0.035621
0.211	0.222	-0.010	0.01	0.000106	0.048706
0.201	0.210	-0.009	0.01	0.000073	0.042422
0.161	0.171	-0.009	0.01	0.000083	0.056584
0.061	0.070	-0.008	0.01	0.000068	0.134595
-0.059	-0.049	-0.009	0.01	0.000082	0.154535
-0.249	-0.240	-0.009	0.01	0.000081	0.036135
-0.429	-0.420	-0.009	0.01	0.000073	0.019951
-0.579	-0.570	-0.009	0.01	0.000076	0.015108
-0.689	-0.680	-0.009	0.01	0.000073	0.012440
-0.639	-0.630	-0.008	0.01	0.000070	0.013078
-0.569	-0.561	-0.008	0.01	0.000060	0.013666
-0.359	-0.348	-0.010	0.01	0.000101	0.028083
-0.169	-0.159	-0.010	0.01	0.000093	0.057117
0.071	0.080	-0.009	0.01	0.000078	0.123515
0.251	0.260	-0.009	0.01	0.000079	0.035292
0.391	0.400	-0.008	0.01	0.000072	0.021662
0.471	0.480	-0.008	0.01	0.000067	0.017382
0.501	0.509	-0.008	0.01	0.000064	0.015971
0.451	0.459	-0.008	0.01	0.000058	0.016938
0.361	0.370	-0.009	0.01	0.000075	0.024010
0.281	0.290	-0.009	0.01	0.000075	0.030717
Total		-1.80	4.24	0.273891	64.361654

n	360
MAD	0.01177795
MSE	0.00076081
RMSE	0.02758277
MAPE	17.8782374