

Time	Topocentric z	AZIMUTH (EtoNorth	elevation
7:00:00	79.729788	93.487057	10.27021
7:00:10	79.689525	93.496889	10.31048
7:00:20	79.64926	93.506725	10.35074
7:00:30	79.608994	93.516563	10.39101
7:00:40	79.568727	93.526404	10.43127
7:00:50	79.528459	93.536249	10.47154
7:01:00	79.488189	93.546096	10.51181
7:01:10	79.447918	93.555947	10.55208
7:01:20	79.407646	93.5658	10.59235
7:01:30	79.367372	93.575657	10.63263
7:01:40	79.327097	93.585517	10.6729
7:01:50	79.286821	93.595381	10.71318
7:02:00	79.246544	93.605247	10.75346
7:02:10	79.206265	93.615116	10.79374
7:02:20	79.165986	93.624989	10.83401
7:02:30	79.125705	93.634865	10.8743
7:02:40	79.085423	93.644744	10.91458
7:02:50	79.04514	93.654627	10.95486
7:03:00	79.004856	93.664512	10.99514
7:03:10	78.964571	93.674401	11.03543
7:03:20	78.924285	93.684293	11.07572
7:03:30	78.883998	93.694189	11.116
7:03:40	78.843709	93.704087	11.15629
7:03:50	78.80342	93.713989	11.19658
7:04:00	78.76313	93.723894	11.23687
7:04:10	78.722838	93.733803	11.27716
7:04:20	78.682546	93.743715	11.31745
7:04:30	78.642253	93.75363	11.35775
7:04:40	78.601959	93.763549	11.39804
7:04:50	78.561664	93.773471	11.43834
7:05:00	78.521368	93.783396	11.47863
7:05:10	78.48107	93.793325	11.51893
7:05:20	78.440773	93.803257	11.55923
7:05:30	78.400474	93.813192	11.59953
7:05:40	78.360174	93.823131	11.63983
7:05:50	78.319874	93.833073	11.68013
7:06:00	78.279573	93.843019	11.72043
7:06:10	78.239271	93.852969	11.76073
7:06:20	78.198968	93.862921	11.80103
7:06:30	78.158664	93.872877	11.84134
7:06:40	78.11836	93.882837	11.88164
7:06:50	78.078054	93.8928	11.92195
7:07:00	78.037748	93.902767	11.96225
7:07:10	77.997442	93.912737	12.00256
7:07:20	77.957134	93.922711	12.04287
7:07:30	77.916826	93.932688	12.08317
7:07:40	77.876517	93.942669	12.12348
7:07:50	77.836207	93.952653	12.16379
7:08:00	77.795897	93.962641	12.2041

7:08:10	77.755586	93.972633	12.24441
7:08:20	77.715275	93.982628	12.28473
7:08:30	77.674962	93.992626	12.32504
7:08:40	77.634649	94.002629	12.36535
7:08:50	77.594336	94.012635	12.40566
7:09:00	77.554021	94.022644	12.44598
7:09:10	77.513707	94.032658	12.48629
7:09:20	77.473391	94.042675	12.52661
7:09:30	77.433075	94.052695	12.56693
7:09:40	77.392759	94.06272	12.60724
7:09:50	77.352442	94.072748	12.64756
7:10:00	77.312124	94.08278	12.68788
7:10:10	77.271806	94.092815	12.72819
7:10:20	77.231487	94.102854	12.76851
7:10:30	77.191168	94.112897	12.80883
7:10:40	77.150848	94.122944	12.84915
7:10:50	77.110528	94.132995	12.88947
7:11:00	77.070207	94.143049	12.92979
7:11:10	77.029886	94.153107	12.97011
7:11:20	76.989564	94.163169	13.01044
7:11:30	76.949242	94.173235	13.05076
7:11:40	76.908919	94.183304	13.09108
7:11:50	76.868596	94.193378	13.1314
7:12:00	76.828273	94.203455	13.17173
7:12:10	76.787949	94.213536	13.21205
7:12:20	76.747624	94.223621	13.25238
7:12:30	76.7073	94.23371	13.2927
7:12:40	76.666974	94.243803	13.33303
7:12:50	76.626649	94.2539	13.37335
7:13:00	76.586323	94.264	13.41368
7:13:10	76.545996	94.274105	13.454
7:13:20	76.50567	94.284213	13.49433
7:13:30	76.465343	94.294326	13.53466
7:13:40	76.425015	94.304442	13.57499
7:13:50	76.384688	94.314563	13.61531
7:14:00	76.34436	94.324687	13.65564
7:14:10	76.304031	94.334816	13.69597
7:14:20	76.263703	94.344949	13.7363
7:14:30	76.223374	94.355085	13.77663
7:14:40	76.183044	94.365226	13.81696
7:14:50	76.142715	94.37537	13.85729
7:15:00	76.102385	94.385519	13.89762
7:15:10	76.062055	94.395672	13.93795
7:15:20	76.021724	94.405829	13.97828
7:15:30	75.981394	94.41599	14.01861
7:15:40	75.941063	94.426155	14.05894
7:15:50	75.900732	94.436325	14.09927
7:16:00	75.8604	94.446498	14.1396
7:16:10	75.820069	94.456676	14.17993
7:16:20	75.779737	94.466857	14.22026

7:16:30	75.739405	94.477043	14.2606
7:16:40	75.699073	94.487234	14.30093
7:16:50	75.65874	94.497428	14.34126
7:17:00	75.618408	94.507627	14.38159
7:17:10	75.578075	94.51783	14.42193
7:17:20	75.537742	94.528037	14.46226
7:17:30	75.497409	94.538248	14.50259
7:17:40	75.457075	94.548464	14.54293
7:17:50	75.416742	94.558684	14.58326
7:18:00	75.376408	94.568908	14.62359
7:18:10	75.336075	94.579136	14.66393
7:18:20	75.295741	94.589369	14.70426
7:18:30	75.255407	94.599606	14.74459
7:18:40	75.215073	94.609848	14.78493
7:18:50	75.174738	94.620094	14.82526
7:19:00	75.134404	94.630344	14.8656
7:19:10	75.09407	94.640599	14.90593
7:19:20	75.053735	94.650858	14.94627
7:19:30	75.0134	94.661121	14.9866
7:19:40	74.973066	94.671389	15.02693
7:19:50	74.932731	94.681661	15.06727
7:20:00	74.892396	94.691938	15.1076
7:20:10	74.852061	94.702219	15.14794
7:20:20	74.811726	94.712505	15.18827
7:20:30	74.771391	94.722795	15.22861
7:20:40	74.731056	94.73309	15.26894
7:20:50	74.690721	94.743389	15.30928
7:21:00	74.650386	94.753692	15.34961
7:21:10	74.610051	94.764001	15.38995
7:21:20	74.569716	94.774313	15.43028
7:21:30	74.529381	94.784631	15.47062
7:21:40	74.489046	94.794953	15.51095
7:21:50	74.44871	94.805279	15.55129
7:22:00	74.408375	94.81561	15.59163
7:22:10	74.36804	94.825946	15.63196
7:22:20	74.327705	94.836286	15.6723
7:22:30	74.28737	94.846631	15.71263
7:22:40	74.247035	94.856981	15.75297
7:22:50	74.2067	94.867335	15.7933
7:23:00	74.166365	94.877694	15.83364
7:23:10	74.12603	94.888058	15.87397
7:23:20	74.085695	94.898426	15.91431
7:23:30	74.04536	94.908799	15.95464
7:23:40	74.005026	94.919177	15.99497
7:23:50	73.964691	94.92956	16.03531
7:24:00	73.924356	94.939947	16.07564
7:24:10	73.884022	94.950339	16.11598
7:24:20	73.843687	94.960736	16.15631
7:24:30	73.803353	94.971138	16.19665
7:24:40	73.763019	94.981544	16.23698

7:24:50	73.722685	94.991956	16.27732
7:25:00	73.682351	95.002372	16.31765
7:25:10	73.642017	95.012793	16.35798
7:25:20	73.601683	95.023219	16.39832
7:25:30	73.561349	95.033649	16.43865
7:25:40	73.521016	95.044085	16.47898
7:25:50	73.480682	95.054526	16.51932
7:26:00	73.440349	95.064971	16.55965
7:26:10	73.400016	95.075421	16.59998
7:26:20	73.359683	95.085877	16.64032
7:26:30	73.31935	95.096337	16.68065
7:26:40	73.279017	95.106802	16.72098
7:26:50	73.238685	95.117272	16.76132
7:27:00	73.198352	95.127748	16.80165
7:27:10	73.15802	95.138228	16.84198
7:27:20	73.117688	95.148713	16.88231
7:27:30	73.077356	95.159203	16.92264
7:27:40	73.037025	95.169699	16.96298
7:27:50	72.996693	95.180199	17.00331
7:28:00	72.956362	95.190705	17.04364
7:28:10	72.916031	95.201215	17.08397
7:28:20	72.8757	95.211731	17.1243
7:28:30	72.835369	95.222252	17.16463
7:28:40	72.795039	95.232778	17.20496
7:28:50	72.754709	95.243309	17.24529
7:29:00	72.714379	95.253845	17.28562
7:29:10	72.674049	95.264386	17.32595
7:29:20	72.63372	95.274933	17.36628
7:29:30	72.593391	95.285485	17.40661
7:29:40	72.553062	95.296042	17.44694
7:29:50	72.512733	95.306604	17.48727
7:30:00	72.472404	95.317172	17.5276
7:30:10	72.432076	95.327744	17.56792
7:30:20	72.391748	95.338322	17.60825
7:30:30	72.35142	95.348906	17.64858
7:30:40	72.311093	95.359494	17.68891
7:30:50	72.270766	95.370088	17.72923
7:31:00	72.230439	95.380688	17.76956
7:31:10	72.190112	95.391292	17.80989
7:31:20	72.149786	95.401902	17.85021
7:31:30	72.10946	95.412518	17.89054
7:31:40	72.069134	95.423138	17.93087
7:31:50	72.028809	95.433764	17.97119
7:32:00	71.988484	95.444396	18.01152
7:32:10	71.948159	95.455033	18.05184
7:32:20	71.907834	95.465675	18.09217
7:32:30	71.86751	95.476323	18.13249
7:32:40	71.827187	95.486976	18.17281
7:32:50	71.786863	95.497635	18.21314
7:33:00	71.74654	95.508299	18.25346

7:33:10	71.706217	95.518969	18.29378
7:33:20	71.665894	95.529645	18.33411
7:33:30	71.625572	95.540325	18.37443
7:33:40	71.585251	95.551012	18.41475
7:33:50	71.544929	95.561704	18.45507
7:34:00	71.504608	95.572401	18.49539
7:34:10	71.464287	95.583105	18.53571
7:34:20	71.423967	95.593813	18.57603
7:34:30	71.383647	95.604528	18.61635
7:34:40	71.343327	95.615248	18.65667
7:34:50	71.303008	95.625974	18.69699
7:35:00	71.262689	95.636705	18.73731
7:35:10	71.222371	95.647442	18.77763
7:35:20	71.182052	95.658185	18.81795
7:35:30	71.141735	95.668933	18.85827
7:35:40	71.101417	95.679688	18.89858
7:35:50	71.0611	95.690447	18.9389
7:36:00	71.020784	95.701213	18.97922
7:36:10	70.980468	95.711985	19.01953
7:36:20	70.940152	95.722762	19.05985
7:36:30	70.899837	95.733545	19.10016
7:36:40	70.859522	95.744334	19.14048
7:36:50	70.819208	95.755129	19.18079
7:37:00	70.778894	95.765929	19.22111
7:37:10	70.73858	95.776736	19.26142
7:37:20	70.698267	95.787548	19.30173
7:37:30	70.657954	95.798366	19.34205
7:37:40	70.617642	95.80919	19.38236
7:37:50	70.57733	95.82002	19.42267
7:38:00	70.537019	95.830856	19.46298
7:38:10	70.496708	95.841698	19.50329
7:38:20	70.456397	95.852546	19.5436
7:38:30	70.416088	95.8634	19.58391
7:38:40	70.375778	95.87426	19.62422
7:38:50	70.335469	95.885126	19.66453
7:39:00	70.29516	95.895998	19.70484
7:39:10	70.254852	95.906876	19.74515
7:39:20	70.214545	95.91776	19.78546
7:39:30	70.174237	95.92865	19.82576
7:39:40	70.133931	95.939546	19.86607
7:39:50	70.093625	95.950448	19.90638
7:40:00	70.053319	95.961357	19.94668
7:40:10	70.013014	95.972271	19.98699
7:40:20	69.972709	95.983192	20.02729
7:40:30	69.932405	95.994119	20.0676
7:40:40	69.892101	96.005052	20.1079
7:40:50	69.851798	96.015991	20.1482
7:41:00	69.811496	96.026937	20.1885
7:41:10	69.771194	96.037888	20.22881
7:41:20	69.730892	96.048846	20.26911

7:41:30	69.690591	96.05981	20.30941
7:41:40	69.65029	96.070781	20.34971
7:41:50	69.609991	96.081758	20.39001
7:42:00	69.569691	96.092741	20.43031
7:42:10	69.529392	96.10373	20.47061
7:42:20	69.489094	96.114726	20.51091
7:42:30	69.448796	96.125728	20.5512
7:42:40	69.408499	96.136736	20.5915
7:42:50	69.368202	96.147751	20.6318
7:43:00	69.327906	96.158772	20.67209
7:43:10	69.28761	96.1698	20.71239
7:43:20	69.247315	96.180834	20.75269
7:43:30	69.207021	96.191875	20.79298
7:43:40	69.166727	96.202922	20.83327
7:43:50	69.126434	96.213975	20.87357
7:44:00	69.086141	96.225035	20.91386
7:44:10	69.045849	96.236102	20.95415
7:44:20	69.005557	96.247175	20.99444
7:44:30	68.965266	96.258254	21.03473
7:44:40	68.924976	96.26934	21.07502
7:44:50	68.884686	96.280433	21.11531
7:45:00	68.844397	96.291532	21.1556
7:45:10	68.804109	96.302638	21.19589
7:45:20	68.763821	96.313751	21.23618
7:45:30	68.723533	96.32487	21.27647
7:45:40	68.683247	96.335996	21.31675
7:45:50	68.64296	96.347128	21.35704
7:46:00	68.602675	96.358267	21.39733
7:46:10	68.56239	96.369413	21.43761
7:46:20	68.522106	96.380566	21.47789
7:46:30	68.481822	96.391725	21.51818
7:46:40	68.441539	96.402892	21.55846
7:46:50	68.401257	96.414064	21.59874
7:47:00	68.360975	96.425244	21.63903
7:47:10	68.320694	96.436431	21.67931
7:47:20	68.280414	96.447624	21.71959
7:47:30	68.240134	96.458824	21.75987
7:47:40	68.199855	96.470031	21.80015
7:47:50	68.159576	96.481245	21.84042
7:48:00	68.119299	96.492466	21.8807
7:48:10	68.079022	96.503694	21.92098
7:48:20	68.038745	96.514928	21.96126
7:48:30	67.998469	96.52617	22.00153
7:48:40	67.958194	96.537418	22.04181
7:48:50	67.91792	96.548674	22.08208
7:49:00	67.877646	96.559936	22.12235
7:49:10	67.837373	96.571206	22.16263
7:49:20	67.797101	96.582482	22.2029
7:49:30	67.756829	96.593766	22.24317
7:49:40	67.716558	96.605056	22.28344

7:49:50	67.676288	96.616354	22.32371
7:50:00	67.636018	96.627659	22.36398
7:50:10	67.595749	96.638971	22.40425
7:50:20	67.555481	96.65029	22.44452
7:50:30	67.515214	96.661616	22.48479
7:50:40	67.474947	96.672949	22.52505
7:50:50	67.434681	96.68429	22.56532
7:51:00	67.394415	96.695638	22.60559
7:51:10	67.354151	96.706993	22.64585
7:51:20	67.313887	96.718355	22.68611
7:51:30	67.273624	96.729724	22.72638
7:51:40	67.233361	96.741101	22.76664
7:51:50	67.1931	96.752485	22.8069
7:52:00	67.152839	96.763876	22.84716
7:52:10	67.112579	96.775275	22.88742
7:52:20	67.072319	96.786681	22.92768
7:52:30	67.03206	96.798094	22.96794
7:52:40	66.991803	96.809515	23.0082
7:52:50	66.951545	96.820943	23.04846
7:53:00	66.911289	96.832378	23.08871
7:53:10	66.871033	96.843821	23.12897
7:53:20	66.830778	96.855271	23.16922
7:53:30	66.790524	96.866729	23.20948
7:53:40	66.750271	96.878194	23.24973
7:53:50	66.710018	96.889667	23.28998
7:54:00	66.669766	96.901147	23.33023
7:54:10	66.629515	96.912635	23.37049
7:54:20	66.589265	96.92413	23.41074
7:54:30	66.549016	96.935633	23.45098
7:54:40	66.508767	96.947144	23.49123
7:54:50	66.468519	96.958662	23.53148
7:55:00	66.428272	96.970188	23.57173
7:55:10	66.388026	96.981721	23.61197
7:55:20	66.34778	96.993262	23.65222
7:55:30	66.307536	97.004811	23.69246
7:55:40	66.267292	97.016367	23.73271
7:55:50	66.227049	97.027932	23.77295
7:56:00	66.186807	97.039504	23.81319
7:56:10	66.146565	97.051083	23.85344
7:56:20	66.106324	97.062671	23.89368
7:56:30	66.066085	97.074266	23.93392
7:56:40	66.025846	97.085869	23.97415
7:56:50	65.985608	97.09748	24.01439
7:57:00	65.94537	97.109098	24.05463
7:57:10	65.905134	97.120725	24.09487
7:57:20	65.864898	97.132359	24.1351
7:57:30	65.824664	97.144002	24.17534
7:57:40	65.78443	97.155652	24.21557
7:57:50	65.744197	97.16731	24.2558
7:58:00	65.703965	97.178976	24.29604

7:58:10	65.663733	97.19065	24.33627
7:58:20	65.623503	97.202332	24.3765
7:58:30	65.583273	97.214022	24.41673
7:58:40	65.543044	97.225721	24.45696
7:58:50	65.502817	97.237427	24.49718
7:59:00	65.46259	97.249141	24.53741
7:59:10	65.422363	97.260863	24.57764
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7:59:30	65.341914	97.284333	24.65809
7:59:40	65.30169	97.296079	24.69831
7:59:50	65.261468	97.307834	24.73853
8:00:00	65.221246	97.319597	24.77875
8:00:10	65.181025	97.331369	24.81898
8:00:20	65.140805	97.343148	24.8592
8:00:30	65.100587	97.354936	24.89941
8:00:40	65.060368	97.366732	24.93963
8:00:50	65.020151	97.378536	24.97985
8:01:00	64.979935	97.390349	25.02007
8:01:10	64.93972	97.40217	25.06028
8:01:20	64.899505	97.413999	25.1005
8:01:30	64.859292	97.425837	25.14071
8:01:40	64.819079	97.437683	25.18092
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8:02:20	64.658238	97.485151	25.34176
8:02:30	64.61803	97.49704	25.38197
8:02:40	64.577823	97.508936	25.42218
8:02:50	64.537617	97.520842	25.46238
8:03:00	64.497412	97.532755	25.50259
8:03:10	64.457208	97.544678	25.54279
8:03:20	64.417005	97.556609	25.583
8:03:30	64.376803	97.568548	25.6232
8:03:40	64.336601	97.580497	25.6634
8:03:50	64.296401	97.592453	25.7036
8:04:00	64.256202	97.604419	25.7438
8:04:10	64.216004	97.616393	25.784
8:04:20	64.175806	97.628376	25.82419
8:04:30	64.13561	97.640368	25.86439
8:04:40	64.095414	97.652368	25.90459
8:04:50	64.05522	97.664377	25.94478
8:05:00	64.015027	97.676395	25.98497
8:05:10	63.974834	97.688421	26.02517
8:05:20	63.934643	97.700457	26.06536
8:05:30	63.894452	97.712501	26.10555
8:05:40	63.854263	97.724555	26.14574
8:05:50	63.814074	97.736617	26.18593
8:06:00	63.773887	97.748688	26.22611
8:06:10	63.733701	97.760768	26.2663
8:06:20	63.693515	97.772857	26.30649

8:06:30	63.653331	97.784955	26.34667
8:06:40	63.613148	97.797061	26.38685
8:06:50	63.572965	97.809177	26.42704
8:07:00	63.532784	97.821302	26.46722
8:07:10	63.492604	97.833436	26.5074
8:07:20	63.452424	97.845579	26.54758
8:07:30	63.412246	97.857731	26.58775
8:07:40	63.372069	97.869893	26.62793
8:07:50	63.331893	97.882063	26.66811
8:08:00	63.291718	97.894243	26.70828
8:08:10	63.251544	97.906431	26.74846
8:08:20	63.211371	97.918629	26.78863
8:08:30	63.171199	97.930837	26.8288
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8:08:50	63.090858	97.955279	26.90914
8:09:00	63.05069	97.967514	26.94931
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8:09:20	62.970355	97.992012	27.02965
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8:10:00	62.8097	98.04112	27.1903
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8:10:20	62.729379	98.065731	27.27062
8:10:30	62.68922	98.07805	27.31078
8:10:40	62.649062	98.09038	27.35094
8:10:50	62.608905	98.102718	27.3911
8:11:00	62.568749	98.115066	27.43125
8:11:10	62.528595	98.127424	27.47141
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8:11:30	62.448289	98.152169	27.55171
8:11:40	62.408138	98.164555	27.59186
8:11:50	62.367988	98.176952	27.63201
8:12:00	62.327839	98.189358	27.67216
8:12:10	62.287691	98.201773	27.71231
8:12:20	62.247544	98.214199	27.75246
8:12:30	62.207399	98.226634	27.7926
8:12:40	62.167254	98.239079	27.83275
8:12:50	62.127111	98.251534	27.87289
8:13:00	62.086969	98.263998	27.91303
8:13:10	62.046828	98.276473	27.95317
8:13:20	62.006688	98.288957	27.99331
8:13:30	61.96655	98.301451	28.03345
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8:13:50	61.886276	98.32647	28.11372
8:14:00	61.846141	98.338994	28.15386
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8:14:20	61.765874	98.364072	28.23413
8:14:30	61.725742	98.376626	28.27426
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8:15:20	61.525102	98.439548	28.4749
8:15:30	61.484977	98.452162	28.51502
8:15:40	61.444854	98.464787	28.55515
8:15:50	61.404732	98.477422	28.59527
8:16:00	61.364611	98.490068	28.63539
8:16:10	61.324491	98.502724	28.67551
8:16:20	61.284373	98.51539	28.71563
8:16:30	61.244256	98.528066	28.75574
8:16:40	61.20414	98.540753	28.79586
8:16:50	61.164025	98.55345	28.83598
8:17:00	61.123911	98.566157	28.87609
8:17:10	61.083799	98.578875	28.9162
8:17:20	61.043688	98.591603	28.95631
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8:17:40	60.963469	98.617091	29.03653
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8:18:10	60.843151	98.655402	29.15685
8:18:20	60.803047	98.668193	29.19695
8:18:30	60.762945	98.680995	29.23706
8:18:40	60.722844	98.693808	29.27716
8:18:50	60.682744	98.706631	29.31726
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8:19:10	60.602548	98.73231	29.39745
8:19:20	60.562452	98.745165	29.43755
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8:19:40	60.482264	98.770908	29.51774
8:19:50	60.442172	98.783796	29.55783
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8:20:20	60.321903	98.822525	29.6781
8:20:30	60.281816	98.835456	29.71818
8:20:40	60.24173	98.848398	29.75827
8:20:50	60.201646	98.861351	29.79835
8:21:00	60.161563	98.874315	29.83844
8:21:10	60.121481	98.88729	29.87852
8:21:20	60.081401	98.900276	29.9186
8:21:30	60.041322	98.913274	29.95868
8:21:40	60.001244	98.926282	29.99876
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8:22:20	59.840947	98.978427	30.15905
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8:22:50	59.720738	99.017653	30.27926
8:23:00	59.680671	99.030751	30.31933