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## Supporting information

### Analysis of the Coriolis perturbed rovibrational spectrum of the C-O asymmetric stretch and C-C symmetric stretch of trimethylene oxide

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Table S1. Assigned transitions ( $\text{cm}^{-1}$ ) for the  $\nu_{23}+\nu_{18}-\nu_{18}$  hotband of TMO at  $1002\text{ cm}^{-1}$ .

Table S2. Assigned transitions ( $\text{cm}^{-1}$ ) for the  $\nu_{23}+2\nu_{18}-2\nu_{18}$  hotband of TMO at  $999\text{ cm}^{-1}$ .

Table S3. Assigned transitions ( $\text{cm}^{-1}$ ) for the  $\nu_{23}$  band of TMO at  $1008\text{ cm}^{-1}$ .

Table S4. Assigned transitions ( $\text{cm}^{-1}$ ) for the  $\nu_6$  band of TMO at  $1033\text{ cm}^{-1}$ .

Table S1. Assigned transitions (cm<sup>-1</sup>) for the  $\nu_{23}+\nu_{18}-\nu_{18}$  hotband of TMO at 1002 cm<sup>-1</sup>.

J' Ka' Kc'			J'' Ka'' Kc''			Frequency	Obs-Calc
5	1	5	6	0	6	998.65060	-0.00042
5	0	5	6	1	6	998.65060	-0.00042
5	1	5	4	0	4	1003.96165	-0.00041
5	0	5	4	1	4	1003.96165	-0.00041
8	1	8	7	0	7	1005.32720	-0.00011
8	0	8	7	1	7	1005.32720	-0.00011
8	1	8	9	0	9	997.30547	-0.00026
8	0	8	9	1	9	997.30547	-0.00026
8	3	6	9	2	7	996.59297	-0.00066
8	2	6	9	3	7	996.59297	-0.00066
8	3	6	7	2	5	1005.98001	-0.00078
8	2	6	7	3	5	1005.98001	-0.00078
9	1	9	10	0	10	996.85827	-0.00029
9	0	9	10	1	10	996.85827	-0.00029
9	1	8	10	1	9	996.49943	-0.00008
9	2	8	10	2	9	996.49943	-0.00008
9	2	8	8	2	7	1006.10723	-0.00008
9	1	8	8	1	7	1006.10723	-0.00008
9	1	9	8	0	8	1005.78329	-0.00032
9	0	9	8	1	8	1005.78329	-0.00032
10	1	10	11	1	11	996.41169	-0.00031
10	0	10	11	0	11	996.41169	-0.00031
10	1	9	11	1	10	996.05109	0.00020
10	2	9	11	2	10	996.05109	0.00020
10	1	10	9	1	9	1006.24028	-0.00022
10	0	10	9	0	9	1006.24028	-0.00022
10	2	9	9	2	8	1006.56230	0.00018
10	1	9	9	1	8	1006.56230	0.00018
11	2	9	12	3	10	995.24150	-0.00007
11	3	9	12	2	10	995.24150	-0.00007
11	2	9	10	3	8	1007.33920	0.00028
11	3	9	10	2	8	1007.33920	0.00028
11	3	8	10	4	7	1007.66202	-0.00016
11	4	8	10	3	7	1007.66202	-0.00016
11	3	8	12	4	9	994.88183	-0.00025
11	4	8	12	3	9	994.88183	-0.00025
12	2	11	13	2	12	995.15558	0.00006
12	1	11	13	1	12	995.15558	0.00006
12	1	12	13	1	13	995.52058	-0.00017
12	0	12	13	0	13	995.52058	-0.00017

12	1	12	11	1	11	1007.15584	-0.00020
12	0	12	11	0	11	1007.15584	-0.00020
12	1	11	11	1	10	1007.47390	0.00035
12	2	11	11	2	10	1007.47390	0.00035
13	1	13	12	1	12	1007.61449	-0.00021
13	0	13	12	0	12	1007.61449	-0.00021
13	3	10	14	4	11	993.97990	0.00029
13	4	10	14	3	11	993.97990	0.00029
13	5	9	14	4	10	993.61783	0.00011
13	4	9	14	5	10	993.61783	0.00011
13	5	9	12	4	8	1008.88710	-0.00002
13	4	9	12	5	8	1008.88710	-0.00002
13	1	13	14	1	14	995.07574	-0.00032
13	0	13	14	0	14	995.07574	-0.00032
13	3	10	12	4	9	1008.56654	0.00025
13	4	10	12	3	9	1008.56654	0.00025
14	3	11	13	4	10	1009.01936	0.00014
14	4	11	13	3	10	1009.01936	0.00014
14	1	14	13	1	13	1008.07357	-0.00035
14	0	14	13	0	13	1008.07357	-0.00035
14	0	14	15	0	15	994.63202	0.00005
14	1	14	15	1	15	994.63202	0.00005
14	3	11	15	4	12	993.52968	0.00039
14	4	11	15	3	12	993.52968	0.00039
14	1	13	15	1	14	994.26287	0.00023
14	2	13	15	2	14	994.26287	0.00023
14	1	13	13	1	12	1008.38735	0.00005
14	2	13	13	2	12	1008.38735	0.00005
14	7	8	15	6	9	992.44198	-0.00039
14	6	8	15	7	9	992.44198	-0.00039
14	7	8	13	6	7	1009.98048	-0.00035
14	6	8	13	7	7	1009.98048	-0.00035
15	2	13	16	3	14	993.44798	0.00050
15	3	13	16	2	14	993.44798	0.00050
15	5	11	14	4	10	1009.78934	0.00014
15	4	11	14	5	10	1009.78934	0.00014
15	4	12	14	3	11	1009.47326	0.00054
15	3	12	14	4	11	1009.47326	0.00054
15	3	12	16	4	13	993.07979	0.00021
15	4	12	16	3	13	993.07979	0.00021
15	3	13	14	2	12	1009.15870	0.00068
15	2	13	14	3	12	1009.15870	0.00068
15	5	11	16	4	12	992.71373	0.00028

15	4	11	16	5	12	992.71373	0.00028
16	3	14	15	2	13	1009.61488	0.00064
16	2	14	15	3	13	1009.61488	0.00064
16	7	10	17	6	11	991.53098	0.00009
16	6	10	17	7	11	991.53098	0.00009
16	3	13	17	4	14	992.63106	0.00059
16	4	13	17	3	14	992.63106	0.00059
16	7	10	15	6	9	1010.87542	0.00033
16	6	10	15	7	9	1010.87542	0.00033
16	8	9	17	7	10	991.16746	-0.00022
16	7	9	17	8	10	991.16746	-0.00022
16	8	9	15	7	8	1011.19483	-0.00010
16	7	9	15	8	8	1011.19483	-0.00010
16	4	13	15	3	12	1009.92728	0.00048
16	3	13	15	4	12	1009.92728	0.00048
16	2	15	17	1	16	993.37239	0.00018
16	1	15	17	2	16	993.37239	0.00018
16	4	12	17	5	13	992.26258	0.00036
16	5	12	17	4	13	992.26258	0.00036
16	2	14	17	3	15	993.00080	0.00031
16	3	14	17	2	15	993.00080	0.00031
16	2	15	15	1	14	1009.30313	-0.00022
16	1	15	15	2	14	1009.30313	-0.00022
16	5	12	15	4	11	1010.24136	0.00027
16	4	12	15	5	11	1010.24136	0.00027
16	6	11	17	5	12	991.89609	0.00039
16	5	11	17	6	12	991.89609	0.00039
16	6	11	15	5	10	1010.55753	0.00037
16	5	11	15	6	10	1010.55753	0.00037
17	9	9	18	8	10	990.34656	-0.00027
17	8	9	18	9	10	990.34656	-0.00027
17	9	9	16	8	8	1011.95958	-0.00047
17	8	9	16	9	8	1011.95958	-0.00047
17	10	8	18	9	9	989.98361	-0.00055
17	9	8	18	10	9	989.98361	-0.00055
17	10	8	16	9	7	1012.28102	-0.00062
17	9	8	16	10	7	1012.28102	-0.00061
17	4	13	18	5	14	991.81209	0.00051
17	5	13	18	4	14	991.81209	0.00051
17	5	13	16	4	12	1010.69393	0.00039
17	4	13	16	5	12	1010.69393	0.00039
17	3	15	16	2	14	1010.07156	0.00054
17	2	15	16	3	14	1010.07156	0.00054

17	6	12	18	5	13	991.44336	0.00045
17	5	12	18	6	13	991.44336	0.00045
17	3	15	18	2	16	992.55452	0.00041
17	2	15	18	3	16	992.55452	0.00041
17	8	10	18	7	11	990.71064	-0.00001
17	7	10	18	8	11	990.71064	-0.00001
17	8	10	16	7	9	1011.64065	0.00007
17	7	10	16	8	9	1011.64065	0.00007
17	6	12	16	5	11	1011.00774	0.00034
17	5	12	16	6	11	1011.00774	0.00034
18	8	11	19	7	12	990.25379	-0.00033
18	7	11	19	8	12	990.25379	-0.00033
18	8	11	17	7	10	1012.08661	-0.00017
18	7	11	17	8	10	1012.08661	-0.00017
18	0	18	19	1	19	992.86130	-0.00037
18	1	18	19	0	19	992.86130	-0.00037
18	5	14	17	4	13	1011.14708	0.00053
18	4	14	17	5	13	1011.14708	0.00053
18	7	12	19	6	13	990.62179	0.00023
18	6	12	19	7	13	990.62179	0.00023
18	7	12	17	6	11	1011.77165	0.00008
18	6	12	17	7	11	1011.77165	0.00008
18	1	18	17	0	17	1009.91605	-0.00037
18	0	18	17	1	17	1009.91605	-0.00037
18	5	14	19	4	15	991.36197	0.00044
18	4	14	19	5	15	991.36197	0.00044
19	11	9	20	10	10	988.69785	-0.00043
19	10	9	20	11	10	988.69785	-0.00043
19	11	9	18	10	8	1013.48291	-0.00075
19	10	9	18	11	8	1013.48291	-0.00075
19	7	13	20	6	14	990.16800	0.00026
19	6	13	20	7	14	990.16800	0.00026
19	7	13	18	6	12	1012.22061	0.00000
19	6	13	18	7	12	1012.22061	0.00000
19	4	16	20	3	17	991.28730	0.00050
19	3	16	20	4	17	991.28730	0.00050
19	8	12	18	7	11	1012.53328	-0.00023
19	7	12	18	8	11	1012.53328	-0.00023
19	4	15	20	5	16	990.91243	0.00034
19	5	15	20	4	16	990.91243	0.00034
19	4	15	18	5	14	1011.60070	0.00059
19	5	15	18	4	14	1011.60070	0.00059
19	4	16	18	3	15	1011.29291	0.00053

19	3	16	18	4	15	1011.29291	0.00053
19	8	12	20	7	13	989.79794	-0.00017
19	7	12	20	8	13	989.79794	-0.00017
20	1	20	21	0	21	991.97972	-0.00036
20	0	20	21	1	21	991.97972	-0.00036
20	10	11	21	9	12	988.60365	-0.00018
20	9	11	21	10	12	988.60365	-0.00018
20	10	11	19	9	10	1013.60704	-0.00038
20	9	11	19	10	10	1013.60704	-0.00038
20	4	16	21	5	17	990.46359	0.00035
20	5	16	21	4	17	990.46359	0.00035
20	2	19	21	1	20	991.59881	0.00022
20	1	19	21	2	20	991.59881	0.00022
20	11	10	21	10	11	988.23622	-0.00037
20	10	10	21	11	11	988.23622	-0.00037
20	5	16	19	4	15	1012.05470	0.00050
20	4	16	19	5	15	1012.05470	0.00050
20	11	10	19	10	9	1013.92325	-0.00039
20	10	10	19	11	9	1013.92325	-0.00039
20	1	19	19	2	18	1011.14213	0.00002
20	2	19	19	1	18	1011.14213	0.00002
20	0	20	19	1	19	1010.84074	-0.00019
20	1	20	19	0	19	1010.84074	-0.00019
20	6	14	21	7	15	989.71474	0.00026
20	7	14	21	6	15	989.71474	0.00026
20	4	17	21	3	18	990.84070	0.00060
20	3	17	21	4	18	990.84070	0.00060
20	4	17	19	3	16	1011.74889	0.00022
20	3	17	19	4	16	1011.74889	0.00022
20	9	12	21	8	13	988.97216	-0.00028
20	8	12	21	9	13	988.97216	-0.00028
20	9	12	19	8	11	1013.29319	0.00004
20	8	12	19	9	11	1013.29319	0.00004
20	7	14	19	6	13	1012.66993	-0.00026
20	6	14	19	7	13	1012.66993	-0.00026
20	13	8	21	12	9	987.50505	0.00061
20	12	8	21	13	9	987.50505	0.00062
20	13	8	19	12	7	1014.56320	0.00039
20	12	8	19	13	7	1014.56320	0.00043
21	1	20	22	2	21	991.15690	0.00023
21	2	20	22	1	21	991.15690	0.00023
21	1	20	20	2	19	1011.60301	-0.00014
21	2	20	20	1	19	1011.60301	-0.00014

21	9	13	22	8	14	988.51513	-0.00015
21	8	13	22	9	14	988.51513	-0.00015
21	9	13	20	8	12	1013.73828	-0.00026
21	8	13	20	9	12	1013.73828	-0.00026
21	1	21	22	0	22	991.53980	-0.00035
21	0	21	22	1	22	991.53980	-0.00035
21	1	21	20	0	20	1011.30376	-0.00021
21	0	21	20	1	20	1011.30376	-0.00021
22	2	21	21	1	20	1012.06493	0.00023
22	1	21	21	2	20	1012.06493	0.00023
22	1	21	23	2	22	990.71534	0.00002
22	2	21	23	1	22	990.71534	0.00002
22	10	13	23	9	14	987.68542	-0.00016
22	9	13	23	10	14	987.68542	-0.00016
22	10	13	21	9	12	1014.49354	-0.00031
22	9	13	21	10	12	1014.49354	-0.00031
22	11	12	23	10	13	987.31382	-0.00028
22	10	12	23	11	13	987.31382	-0.00028
22	11	12	21	10	11	1014.80476	-0.00038
22	10	12	21	11	11	1014.80476	-0.00038
22	12	11	23	11	12	986.94400	-0.00003
22	11	11	23	12	12	986.94400	-0.00003
22	12	11	21	11	10	1015.11794	-0.00043
22	11	11	21	12	10	1015.11794	-0.00043
22	7	16	23	6	17	988.80981	0.00015
22	6	16	23	7	17	988.80981	0.00015
22	13	10	23	12	11	986.57533	0.00026
22	12	10	23	13	11	986.57533	0.00026
22	13	10	21	12	9	1015.43341	-0.00026
22	12	10	21	13	9	1015.43341	-0.00026
22	6	16	21	7	15	1013.57107	0.00018
22	7	16	21	6	15	1013.57107	0.00018
23	9	15	24	8	16	987.60216	-0.00032
23	8	15	24	9	16	987.60216	-0.00032
23	5	19	22	4	18	1013.42011	0.00043
23	4	19	22	5	18	1013.42011	0.00043
23	8	15	22	9	14	1014.63070	-0.00009
23	9	15	22	8	14	1014.63070	-0.00009
23	7	17	22	6	16	1014.02235	0.00034
23	6	17	22	7	16	1014.02235	0.00034
23	10	14	24	9	15	987.22682	-0.00033
23	9	14	24	10	15	987.22682	-0.00033
23	0	23	22	1	22	1012.23088	-0.00070

23	1	23	22	0	22	1012.23088	-0.00070
23	10	14	22	9	13	1014.93732	-0.00047
23	9	14	22	10	13	1014.93732	-0.00047
23	2	22	22	1	21	1012.52673	-0.00004
23	1	22	22	2	21	1012.52673	-0.00004
23	2	22	24	1	23	990.27462	0.00007
23	1	22	24	2	23	990.27462	0.00007
23	1	23	24	0	24	990.66158	-0.00042
23	0	23	24	1	24	990.66158	-0.00042
23	12	12	24	11	13	986.48114	-0.00007
23	11	12	24	12	13	986.48114	-0.00007
23	7	17	24	6	18	988.35816	0.00007
23	6	17	24	7	18	988.35816	0.00007
23	12	12	22	11	11	1015.55716	-0.00015
23	11	12	22	12	11	1015.55716	-0.00015
23	3	21	24	2	22	989.88843	0.00005
23	2	21	24	3	22	989.88843	0.00005
23	2	21	22	3	20	1012.82349	0.00037
23	3	21	22	2	20	1012.82349	0.00037
23	5	19	24	4	20	989.12038	0.00017
23	4	19	24	5	20	989.12038	0.00017
23	13	11	24	12	12	986.11046	0.00016
23	12	11	24	13	12	986.11046	0.00016
23	13	11	22	12	10	1015.87035	0.00035
23	12	11	22	13	10	1015.87035	0.00035
23	7	16	24	8	17	987.97935	-0.00011
23	8	16	24	7	17	987.97935	-0.00011
23	7	16	22	8	15	1014.32539	-0.00016
23	8	16	22	7	15	1014.32539	-0.00016
23	14	10	24	13	11	985.74105	0.00072
23	13	10	24	14	11	985.74105	0.00072
23	14	10	22	13	9	1016.18551	0.00068
23	13	10	22	14	9	1016.18551	0.00068
24	12	13	25	11	14	986.01872	-0.00001
24	11	13	25	12	14	986.01872	-0.00001
24	6	19	23	5	18	1014.17403	0.00001
24	5	19	23	6	18	1014.17403	0.00001
24	9	16	23	8	15	1015.07745	-0.00019
24	8	16	23	9	15	1015.07745	-0.00019
24	12	13	23	11	12	1015.99648	-0.00020
24	11	13	23	12	12	1015.99648	-0.00020
24	4	21	25	3	22	989.05955	0.00033
24	3	21	25	4	22	989.05955	0.00033



24	3	21	23	4	20	1013.57949	0.00038
24	4	21	23	3	20	1013.57949	0.00038
24	6	18	25	7	19	987.90714	0.00004
24	7	18	25	6	19	987.90714	0.00004
24	7	18	23	6	17	1014.47363	-0.00001
24	6	18	23	7	17	1014.47363	-0.00001
24	1	24	25	0	25	990.22339	-0.00038
24	0	24	25	1	25	990.22339	-0.00038
24	1	24	23	0	23	1012.69601	-0.00011
24	0	24	23	1	23	1012.69601	-0.00011
24	11	14	25	10	15	986.39285	-0.00033
24	10	14	25	11	15	986.39285	-0.00033
24	8	16	25	9	17	987.14652	-0.00034
24	9	16	25	8	17	987.14652	-0.00034
24	11	14	23	10	13	1015.68835	-0.00015
24	10	14	23	11	13	1015.68835	-0.00015
24	6	19	25	5	20	988.28971	0.00008
24	5	19	25	6	20	988.28971	0.00008
25	0	25	26	1	26	989.78557	-0.00051
25	1	25	26	0	26	989.78557	-0.00051
25	2	23	26	3	24	989.00465	0.00018
25	3	23	26	2	24	989.00465	0.00018
25	9	17	26	8	18	986.69152	-0.00025
25	8	17	26	9	18	986.69152	-0.00025
25	0	25	24	1	24	1013.16062	-0.00053
25	1	25	24	0	24	1013.16062	-0.00053
25	11	15	26	10	16	985.93325	-0.00012
25	10	15	26	11	16	985.93325	-0.00012
25	4	21	26	5	22	988.22791	0.00015
25	5	21	26	4	22	988.22791	0.00015
25	6	20	26	5	21	987.84175	0.00028
25	5	20	26	6	21	987.84175	0.00028
25	11	15	24	10	14	1016.13062	-0.00023
25	10	15	24	11	14	1016.13062	-0.00023
25	9	17	24	8	16	1015.52457	-0.00039
25	8	17	24	9	16	1015.52457	-0.00039
25	5	20	24	6	19	1014.62866	0.00021
25	6	20	24	5	19	1014.62866	0.00021
25	2	23	24	3	22	1013.74483	0.00018
25	3	23	24	2	22	1013.74483	0.00018
25	4	21	24	5	20	1014.33275	0.00018
25	5	21	24	4	20	1014.33275	0.00018
26	10	16	25	11	15	1016.57374	0.00012

26	11	16	25	10	15	1016.57374	0.00012
26	5	21	25	6	20	1015.08328	-0.00012
26	6	21	25	5	20	1015.08328	-0.00012
26	3	23	27	4	24	988.17224	0.00000
26	4	23	27	3	24	988.17224	0.00000
26	8	18	25	9	17	1015.97242	-0.00033
26	9	18	25	8	17	1015.97242	-0.00033
26	12	15	27	11	16	985.09493	0.00004
26	11	15	27	12	16	985.09493	0.00004
26	7	20	27	6	21	987.00667	-0.00012
26	6	20	27	7	21	987.00667	-0.00012
26	2	25	25	1	24	1013.91573	-0.00022
26	1	25	25	2	24	1013.91573	-0.00022
26	7	20	25	6	19	1015.37827	-0.00009
26	6	20	25	7	19	1015.37827	-0.00009
26	12	15	25	11	14	1016.87695	0.00026
26	11	15	25	12	14	1016.87695	0.00026
26	4	23	25	3	22	1014.49763	0.00023
26	3	23	25	4	22	1014.49763	0.00023
26	10	17	27	9	18	985.85491	0.00011
26	9	17	27	10	18	985.85491	0.00011
26	7	19	27	8	20	986.62113	-0.00009
26	8	19	27	7	20	986.62113	-0.00009
26	4	22	27	5	23	987.78242	0.00003
26	5	22	27	4	23	987.78242	0.00003
26	10	17	25	9	16	1016.27196	-0.00037
26	9	17	25	10	16	1016.27196	-0.00037
26	7	19	25	8	18	1015.67471	-0.00008
26	8	19	25	7	18	1015.67471	-0.00008
26	5	22	25	4	21	1014.78952	-0.00024
26	4	22	25	5	21	1014.78952	-0.00024
26	11	16	27	10	17	985.47409	0.00006
26	10	16	27	11	17	985.47409	0.00006
26	8	18	27	9	19	986.23669	-0.00051
26	9	18	27	8	19	986.23669	-0.00051
26	5	21	27	6	22	987.39394	0.00006
26	6	21	27	5	22	987.39394	0.00006
26	1	25	27	2	26	988.95566	0.00004
26	2	25	27	1	26	988.95566	0.00004
27	9	18	26	10	17	1016.71796	-0.00013
27	10	18	26	9	17	1016.71796	-0.00013
27	3	24	26	4	23	1014.95713	-0.00014
27	4	24	26	3	23	1014.95713	-0.00014

27	7	21	28	6	22	986.55735	-0.00011
27	6	21	28	7	22	986.55735	-0.00011
27	4	23	28	5	24	987.33767	0.00010
27	5	23	28	4	24	987.33767	0.00010
27	2	25	28	3	26	988.12279	0.00000
27	3	25	28	2	26	988.12279	0.00000
27	1	27	28	0	28	988.91183	-0.00048
27	0	27	28	1	28	988.91183	-0.00048
27	5	23	26	4	22	1015.24719	-0.00027
27	4	23	26	5	22	1015.24719	-0.00027
27	7	21	26	6	20	1015.83101	-0.00045
27	6	21	26	7	20	1015.83101	-0.00045
27	5	22	28	6	23	986.94668	-0.00016
27	6	22	28	5	23	986.94668	-0.00016
27	1	27	26	0	26	1014.09220	-0.00040
27	0	27	26	1	26	1014.09220	-0.00040
27	10	18	28	9	19	985.39829	-0.00006
27	9	18	28	10	19	985.39829	-0.00006
27	3	25	26	2	24	1014.66808	-0.00007
27	2	25	26	3	24	1014.66808	-0.00007
27	6	22	26	5	21	1015.53846	-0.00036
27	5	22	26	6	21	1015.53846	-0.00036
27	4	24	28	3	25	987.72969	0.00009
27	3	24	28	4	25	987.72969	0.00009
28	11	17	29	12	18	984.17351	0.00078
28	12	17	29	11	18	984.17351	0.00078
28	3	25	29	4	26	987.28742	-0.00009
28	4	25	29	3	26	987.28742	-0.00009
28	10	19	27	9	18	1017.16492	0.00064
28	9	19	27	10	18	1017.16492	0.00064
28	7	22	27	6	21	1016.28479	-0.00023
28	6	22	27	7	21	1016.28479	-0.00023
28	1	27	29	2	28	988.07936	0.00029
28	2	27	29	1	28	988.07936	0.00029
28	12	17	27	11	16	1017.75883	0.00050
28	11	17	27	12	16	1017.75883	0.00050
28	6	23	27	5	22	1015.99445	-0.00027
28	5	23	27	6	22	1015.99445	-0.00027
28	3	25	27	4	24	1015.41756	-0.00006
28	4	25	27	3	24	1015.41756	-0.00006
28	10	18	29	11	19	984.55725	0.00050
28	11	18	29	10	19	984.55725	0.00050
28	8	21	29	7	22	985.71802	-0.00041

28	7	21	29	8	22	985.71802	-0.00041
28	5	24	27	4	23	1015.70553	-0.00009
28	4	24	27	5	23	1015.70553	-0.00009
28	1	27	27	2	26	1014.84435	-0.00010
28	2	27	27	1	26	1014.84435	-0.00010
28	8	21	27	7	20	1016.57640	-0.00025
28	7	21	27	8	20	1016.57640	-0.00025
28	11	18	27	10	17	1017.46114	0.00068
28	10	18	27	11	17	1017.46114	0.00068
28	10	19	29	9	20	984.94246	0.00005
28	9	19	29	10	20	984.94246	0.00005
28	6	22	29	7	23	986.10836	-0.00033
28	7	22	29	6	23	986.10836	-0.00033
28	6	23	29	5	24	986.50009	-0.00026
28	5	23	29	6	24	986.50009	-0.00026
28	4	24	29	5	25	986.89325	-0.00007
28	5	24	29	4	25	986.89325	-0.00007
29	4	26	28	3	25	1015.87815	-0.00029
29	3	26	28	4	25	1015.87815	-0.00029
29	8	21	30	9	22	984.87679	0.00014
29	9	21	30	8	22	984.87679	0.00014
29	10	20	28	9	19	1017.61139	0.00049
29	9	20	28	10	19	1017.61139	0.00049
29	3	27	30	2	28	987.24320	-0.00011
29	2	27	30	3	28	987.24320	-0.00011
29	2	27	28	3	26	1015.59350	-0.00002
29	3	27	28	2	26	1015.59350	-0.00002
29	7	23	28	6	22	1016.73850	-0.00056
29	6	23	28	7	22	1016.73850	-0.00056
29	6	24	28	5	23	1016.45080	-0.00029
29	5	24	28	6	23	1016.45080	-0.00029
29	0	29	30	1	30	988.04041	-0.00024
29	1	29	30	0	30	988.04041	-0.00024
29	9	21	28	8	20	1017.31854	-0.00032
29	8	21	28	9	20	1017.31854	-0.00032
29	0	29	28	1	28	1015.02573	-0.00011
29	1	29	28	0	28	1015.02573	-0.00011
29	7	22	30	8	23	985.26791	0.00006
29	8	22	30	7	23	985.26791	0.00006
29	1	28	28	2	27	1015.30948	0.00011
29	2	28	28	1	27	1015.30948	0.00011
29	1	28	30	2	29	987.64167	0.00008
29	2	28	30	1	29	987.64167	0.00008

29	6	23	30	7	24	985.66018	-0.00029
29	7	23	30	6	24	985.66018	-0.00029
29	9	20	30	10	21	984.48735	0.00038
29	10	20	30	9	21	984.48735	0.00038
29	8	22	28	7	21	1017.02834	0.00006
29	7	22	28	8	21	1017.02834	0.00006
29	6	24	30	5	25	986.05411	-0.00031
29	5	24	30	6	25	986.05411	-0.00031
29	3	26	30	4	27	986.84571	-0.00024
29	4	26	30	3	27	986.84571	-0.00024
30	3	28	29	2	27	1016.05728	0.00039
30	2	28	29	3	27	1016.05728	0.00039
30	4	26	31	5	27	986.00637	-0.00009
30	5	26	31	4	27	986.00637	-0.00009
30	7	24	31	6	25	985.21255	-0.00022
30	6	24	31	7	25	985.21255	-0.00022
30	6	24	29	7	23	1017.19333	-0.00022
30	7	24	29	6	23	1017.19333	-0.00022
30	7	23	29	8	22	1017.48014	-0.00022
30	8	23	29	7	22	1017.48014	-0.00022
30	0	30	31	1	31	987.60596	0.00039
30	1	30	31	0	31	987.60596	0.00039
30	5	26	29	4	25	1016.62306	-0.00029
30	4	26	29	5	25	1016.62306	-0.00029
30	0	30	29	1	29	1015.49332	0.00022
30	1	30	29	0	29	1015.49332	0.00022
30	7	23	31	8	24	984.81756	-0.00023
30	8	23	31	7	24	984.81756	-0.00023
30	3	28	31	2	29	986.80460	0.00023
30	2	28	31	3	29	986.80460	0.00023
31	7	24	30	8	23	1017.93297	0.00010
31	8	24	30	7	23	1017.93297	0.00010
31	3	29	30	2	28	1016.52121	0.00052
31	2	29	30	3	28	1016.52121	0.00052
31	4	27	30	5	26	1017.08297	0.00007
31	5	27	30	4	26	1017.08297	0.00007
31	3	28	32	4	29	985.96486	0.00040
31	4	28	32	3	29	985.96486	0.00040
31	4	27	32	5	28	985.56385	0.00003
31	5	27	32	4	28	985.56385	0.00003
31	4	28	30	3	27	1016.80194	0.00050
31	3	28	30	4	27	1016.80194	0.00050
31	2	29	32	3	30	986.36676	0.00080

31	3	29	32	2	30	986.36676	0.00080
31	8	24	32	7	25	984.36846	0.00020
31	7	24	32	8	25	984.36846	0.00020

Table S2. Assigned transitions ( $\text{cm}^{-1}$ ) for the  $\nu_{23}+2\nu_{18}-2\nu_{18}$  hotband of TMO at  $999\text{ cm}^{-1}$ .

J' Ka' Kc'			J'' Ka'' Kc''			Frequency	Obs-Calc
6	2	5	7	1	6	995.05770	-0.00041
6	1	5	7	2	6	995.05770	-0.00041
6	2	5	5	1	4	1001.96570	-0.00031
6	1	5	5	2	4	1001.96570	-0.00030
7	2	6	8	1	7	994.60009	0.00000
7	1	6	8	2	7	994.60009	0.00000
7	1	7	8	0	8	994.95630	-0.00031
7	0	7	8	1	8	994.95630	-0.00031
7	2	6	6	1	5	1002.41335	-0.00037
7	1	6	6	2	5	1002.41335	-0.00037
7	1	7	6	0	6	1002.08970	-0.00050
7	0	7	6	1	6	1002.08970	-0.00050
7	3	5	8	2	6	994.24586	-0.00015
7	2	5	8	3	6	994.24586	-0.00015
7	3	5	6	2	4	1002.73966	-0.00017
7	2	5	6	3	4	1002.73966	-0.00015
8	4	5	9	3	6	993.43108	-0.00006
8	3	5	9	4	6	993.43108	-0.00006
8	2	7	7	1	6	1002.86119	-0.00008
8	1	7	7	2	6	1002.86119	-0.00008
8	1	8	7	0	7	1002.54043	0.00016
8	0	8	7	1	7	1002.54043	0.00016
8	4	5	7	3	4	1003.51089	-0.00016
8	3	5	7	4	4	1003.51089	-0.00008
8	2	7	9	1	8	994.14174	-0.00018
8	1	7	9	2	8	994.14174	-0.00018
8	1	8	9	0	9	994.50098	0.00004
8	0	8	9	1	9	994.50098	0.00004
9	3	7	10	2	8	993.32499	0.00046
9	2	7	10	3	8	993.32499	0.00046
9	3	7	8	2	6	1003.62981	0.00019
9	2	7	8	3	6	1003.62981	0.00019

9	1	8	10	2	9	993.68364	0.00004
9	2	8	10	1	9	993.68364	0.00004
9	2	8	8	1	7	1003.30844	-0.00022
9	1	8	8	2	7	1003.30844	-0.00022
10	1	10	9	0	9	1003.44002	0.00013
10	0	10	9	1	9	1003.44002	0.00013
10	3	8	9	2	7	1004.07445	0.00015
10	2	8	9	3	7	1004.07445	0.00015
10	1	10	11	0	11	993.58931	0.00020
10	0	10	11	1	11	993.58931	0.00020
10	4	7	11	3	8	992.50459	0.00017
10	3	7	11	4	8	992.50459	0.00017
10	3	8	11	2	9	992.86351	-0.00007
10	2	8	11	3	9	992.86351	-0.00007
10	4	7	9	3	6	1004.39495	-0.00029
10	3	7	9	4	6	1004.39495	-0.00029
11	2	10	12	1	11	992.76662	0.00004
11	1	10	12	2	11	992.76662	0.00004
11	2	10	10	1	9	1004.20312	0.00015
11	1	10	10	2	9	1004.20312	0.00015
12	3	10	13	2	11	991.94134	-0.00003
12	2	10	13	3	11	991.94134	-0.00003
12	1	12	11	0	11	1004.33909	0.00028
12	0	12	11	1	11	1004.33909	0.00028
12	4	9	13	3	10	991.57724	0.00000
12	3	9	13	4	10	991.57724	0.00000
12	4	9	11	3	8	1005.27942	0.00031
12	3	9	11	4	8	1005.27942	0.00031
12	1	11	11	2	10	1004.65014	0.00024
12	2	11	11	1	10	1004.65014	0.00024
12	3	10	11	2	9	1004.96315	-0.00016
12	2	10	11	3	9	1004.96315	-0.00016
12	2	11	13	1	12	992.30769	-0.00019
12	1	11	13	2	12	992.30769	-0.00019
12	1	12	13	0	13	992.67674	0.00003
12	0	12	13	1	13	992.67674	0.00003
13	4	10	12	3	9	1005.72083	-0.00008
13	3	10	12	4	9	1005.72083	-0.00008
13	0	13	12	1	12	1004.78840	0.00035
13	1	13	12	0	12	1004.78840	0.00035
13	5	9	14	4	10	990.74947	0.00020
13	4	9	14	5	10	990.74947	0.00020
13	5	9	12	4	8	1006.03650	-0.00014

13	4	9	12	5	8	1006.03650	-0.00014
13	3	11	14	2	12	991.48002	-0.00012
13	2	11	14	3	12	991.48002	-0.00012
13	3	11	12	2	10	1005.40754	-0.00009
13	2	11	12	3	10	1005.40754	-0.00009
13	0	13	14	1	14	992.22057	0.00024
13	1	13	14	0	14	992.22057	0.00024
13	4	10	14	3	11	991.11346	-0.00007
13	3	10	14	4	11	991.11346	-0.00007
14	3	12	13	2	11	1005.85207	0.00021
14	2	12	13	3	11	1005.85207	0.00021
14	4	11	13	3	10	1006.16248	-0.00015
14	3	11	13	4	10	1006.16248	-0.00015
14	4	11	15	3	12	990.64989	0.00012
14	3	11	15	4	12	990.64989	0.00012
14	2	12	15	3	13	991.01906	0.00022
14	3	12	15	2	13	991.01906	0.00022
14	7	7	15	8	8	989.19674	0.00016
14	8	7	15	7	8	989.19674	0.00016
14	7	7	13	8	6	1007.43157	0.00049
14	8	7	13	7	6	1007.43157	0.00048
15	1	14	14	2	13	1005.99039	0.00044
15	2	14	14	1	13	1005.99039	0.00044
15	2	14	16	1	15	990.93137	0.00012
15	1	14	16	2	15	990.93137	0.00012
15	6	10	16	5	11	989.45010	0.00024
15	5	10	16	6	11	989.45010	0.00024
15	6	10	14	5	9	1007.22811	0.00017
15	5	10	14	6	9	1007.22811	0.00017
15	4	12	16	3	13	990.18615	0.00018
15	3	12	16	4	13	990.18615	0.00018
15	7	8	16	8	9	988.72330	0.00035
15	8	8	16	7	9	988.72330	0.00035
15	7	8	14	8	7	1007.86201	0.00008
15	8	8	14	7	7	1007.86201	0.00008
15	3	12	14	4	11	1006.60430	0.00001
15	4	12	14	3	11	1006.60430	0.00001
16	0	16	15	1	15	1006.13515	0.00026
16	1	16	15	0	15	1006.13515	0.00026
16	5	12	15	4	11	1007.35414	0.00016
16	4	12	15	5	11	1007.35414	0.00016
16	4	13	17	3	14	989.72217	0.00000
16	3	13	17	4	14	989.72217	0.00000



16	2	15	15	1	14	1006.43652	0.00010
16	1	15	15	2	14	1006.43652	0.00010
16	2	14	15	3	13	1006.73984	-0.00022
16	3	14	15	2	13	1006.73984	-0.00022
16	1	16	17	0	17	990.85063	0.00012
16	0	16	17	1	17	990.85063	0.00012
16	6	11	17	5	12	988.98091	-0.00020
16	5	11	17	6	12	988.98091	-0.00020
16	6	11	15	5	10	1007.66431	-0.00012
16	5	11	15	6	10	1007.66431	-0.00012
16	1	15	17	2	16	990.47236	0.00013
16	2	15	17	1	16	990.47236	0.00013
16	4	13	15	3	12	1007.04601	0.00013
16	3	13	15	4	12	1007.04601	0.00013
16	3	14	17	2	15	990.09619	0.00009
16	2	14	17	3	15	990.09619	0.00009
16	5	12	17	4	13	989.35034	-0.00016
16	4	12	17	5	13	989.35034	-0.00016
17	2	15	18	3	16	989.63489	0.00019
17	3	15	18	2	16	989.63489	0.00019
17	3	15	16	2	14	1007.18424	0.00018
17	2	15	16	3	14	1007.18424	0.00018
17	2	16	16	1	15	1006.88281	0.00001
17	1	16	16	2	15	1006.88281	0.00001
17	2	16	18	1	17	990.01319	0.00002
17	1	16	18	2	17	990.01319	0.00002
18	4	15	19	3	16	988.79451	-0.00008
18	3	15	19	4	16	988.79451	-0.00008
18	3	15	17	4	14	1007.92932	0.00034
18	4	15	17	3	14	1007.92932	0.00034
18	4	14	19	5	15	988.41787	-0.00019
18	5	14	19	4	15	988.41787	-0.00019
18	5	14	17	4	13	1008.23210	-0.00001
18	4	14	17	5	13	1008.23210	-0.00001
18	1	18	19	0	19	989.93684	-0.00004
18	0	18	19	1	19	989.93684	-0.00004
18	6	13	19	5	14	988.04365	-0.00010
18	5	13	19	6	14	988.04365	-0.00010
18	1	18	17	0	17	1007.03237	0.00021
18	0	18	17	1	17	1007.03237	0.00021
18	6	13	17	5	12	1008.53749	0.00002
18	5	13	17	6	12	1008.53749	0.00002
18	2	17	19	1	18	989.55412	0.00005

18	1	17	19	2	18	989.55412	0.00005
18	1	17	17	2	16	1007.32916	0.00006
18	2	17	17	1	16	1007.32916	0.00006
18	7	11	19	8	12	987.30192	0.00000
18	8	11	19	7	12	987.30192	0.00000
18	7	11	17	8	10	1009.15523	-0.00013
18	8	11	17	7	10	1009.15523	-0.00013
18	3	16	19	2	17	989.17321	-0.00007
18	2	16	19	3	17	989.17321	-0.00007
18	3	16	17	2	15	1007.62796	-0.00006
18	2	16	17	3	15	1007.62796	-0.00006
18	9	9	19	10	10	986.56921	0.00010
18	10	9	19	9	10	986.56921	0.00010
18	10	9	17	9	8	1009.78424	0.00039
18	9	9	17	10	8	1009.78424	0.00039
19	1	19	18	0	18	1007.48083	0.00018
19	0	19	18	1	18	1007.48083	0.00018
19	1	19	20	0	20	989.48003	0.00005
19	0	19	20	1	20	989.48003	0.00005
19	2	18	20	1	19	989.09495	0.00000
19	1	18	20	2	19	989.09495	0.00000
19	3	16	20	4	17	988.33058	-0.00027
19	4	16	20	3	17	988.33058	-0.00027
19	2	18	18	1	17	1007.77497	-0.00037
19	1	18	18	2	17	1007.77497	-0.00037
19	4	16	18	3	15	1008.37024	-0.00028
19	3	16	18	4	15	1008.37024	-0.00028
19	9	11	18	8	10	1009.89714	0.00038
19	8	11	18	9	10	1009.89714	0.00038
19	8	11	20	9	12	986.45840	0.00002
19	9	11	20	8	12	986.45840	0.00002
19	6	13	20	7	14	987.20051	-0.00014
19	7	13	20	6	14	987.20051	-0.00014
19	9	10	20	10	11	986.09068	0.00007
19	10	10	20	9	11	986.09068	0.00007
19	10	10	18	9	9	1010.20944	-0.00010
19	9	10	18	10	9	1010.20944	-0.00010
19	6	13	18	7	12	1009.27894	-0.00025
19	7	13	18	6	12	1009.27894	-0.00025
19	10	9	20	11	10	985.72479	-0.00017
19	11	9	20	10	10	985.72479	-0.00017
19	11	9	18	10	8	1010.52565	0.00029
19	10	9	18	11	8	1010.52565	0.00030

20	8	13	19	7	12	1010.01817	-0.00002
20	7	13	19	8	12	1010.01817	-0.00002
20	1	19	19	2	18	1008.22145	-0.00008
20	2	19	19	1	18	1008.22145	-0.00008
20	6	15	21	5	16	987.10650	-0.00022
20	5	15	21	6	16	987.10650	-0.00022
20	2	18	19	3	17	1008.51590	0.00006
20	3	18	19	2	17	1008.51590	0.00006
20	9	12	21	8	13	985.98243	-0.00001
20	8	12	21	9	13	985.98243	-0.00001
20	9	12	19	8	11	1010.32554	0.00001
20	8	12	19	9	11	1010.32554	0.00001
20	3	17	19	4	16	1008.81185	-0.00022
20	4	17	19	3	16	1008.81185	-0.00022
20	5	15	19	6	14	1009.41052	-0.00017
20	6	15	19	5	14	1009.41052	-0.00017
20	2	19	21	1	20	988.63582	-0.00001
20	1	19	21	2	20	988.63582	-0.00001
20	5	16	21	4	17	987.48555	-0.00033
20	4	16	21	5	17	987.48555	-0.00033
20	2	18	21	3	19	988.25014	-0.00038
20	3	18	21	2	19	988.25014	-0.00038
20	4	16	19	5	15	1009.11034	0.00002
20	5	16	19	4	15	1009.11034	0.00002
20	3	17	21	4	18	987.86701	-0.00017
20	4	17	21	3	18	987.86701	-0.00017
20	10	10	21	11	11	985.24422	0.00009
20	11	10	21	10	11	985.24422	0.00009
20	7	13	21	8	14	986.35476	-0.00019
20	8	13	21	7	14	986.35476	-0.00019
20	11	10	19	10	9	1010.94815	-0.00011
20	10	10	19	11	9	1010.94815	-0.00011
21	9	13	20	8	12	1010.75445	-0.00002
21	8	13	20	9	12	1010.75445	-0.00002
21	6	15	20	7	14	1010.14721	-0.00027
21	7	15	20	6	14	1010.14721	-0.00027
21	1	20	20	2	19	1008.66809	0.00040
21	2	20	20	1	19	1008.66809	0.00040
21	2	19	20	3	18	1008.95967	-0.00007
21	3	19	20	2	18	1008.95967	-0.00007
21	2	20	22	1	21	988.17658	-0.00015
21	1	20	22	2	21	988.17658	-0.00015
21	0	21	22	1	22	988.56567	-0.00039

21	1	21	22	0	22	988.56567	-0.00039
21	9	12	22	10	13	985.13374	-0.00016
21	10	12	22	9	13	985.13374	-0.00016
21	10	12	20	9	11	1011.06186	0.00021
21	9	12	20	10	11	1011.06186	0.00021
21	5	17	22	4	18	987.01976	-0.00020
21	4	17	22	5	18	987.01976	-0.00020
21	3	19	22	2	20	987.78914	-0.00007
21	2	19	22	3	20	987.78914	-0.00007
21	0	21	20	1	20	1008.37725	-0.00012
21	1	21	20	0	20	1008.37725	-0.00012
21	7	15	22	6	16	986.25867	-0.00028
21	6	15	22	7	16	986.25867	-0.00028
21	4	17	20	5	16	1009.54961	0.00010
21	5	17	20	4	16	1009.54961	0.00010
21	8	13	22	9	14	985.50683	0.00015
21	9	13	22	8	14	985.50683	0.00015
21	11	10	22	12	11	984.39508	0.00011
21	12	10	22	11	11	984.39508	0.00011
21	12	10	20	11	9	1011.68446	0.00010
21	11	10	20	12	9	1011.68446	0.00010
21	14	7	22	15	8	983.29866	-0.00018
21	15	7	22	14	8	983.29866	-0.00043
22	5	18	21	4	17	1009.98880	0.00002
22	4	18	21	5	17	1009.98880	0.00002
22	7	16	23	6	17	985.78815	-0.00022
22	6	16	23	7	17	985.78815	-0.00022
22	10	13	23	9	14	984.65556	-0.00026
22	9	13	23	10	14	984.65556	-0.00026
22	10	13	21	9	12	1011.48790	-0.00015
22	9	13	21	10	12	1011.48790	-0.00015
22	3	20	23	2	21	987.32801	0.00004
22	2	20	23	3	21	987.32801	0.00004
22	3	19	23	4	20	986.94025	0.00013
22	4	19	23	3	20	986.94025	0.00013
22	6	16	21	7	15	1010.58169	-0.00013
22	7	16	21	6	15	1010.58169	-0.00013
22	9	14	23	8	15	985.03103	-0.00009
22	8	14	23	9	15	985.03103	-0.00009
22	9	14	21	8	13	1011.18349	-0.00010
22	8	14	21	9	13	1011.18349	-0.00010
22	11	12	23	10	13	984.28280	0.00004
22	10	12	23	11	13	984.28280	0.00004

22	2	20	21	3	19	1009.40355	-0.00011
22	3	20	21	2	19	1009.40355	-0.00011
22	4	18	23	5	19	986.55402	-0.00015
22	5	18	23	4	19	986.55402	-0.00015
22	11	12	21	10	11	1011.79543	0.00035
22	10	12	21	11	11	1011.79543	0.00035
22	1	21	21	2	20	1009.11359	-0.00022
22	2	21	21	1	20	1009.11359	-0.00022
22	12	11	23	11	12	983.91199	0.00009
22	11	11	23	12	12	983.91199	0.00009
22	1	21	23	2	22	987.71752	-0.00014
22	2	21	23	1	22	987.71752	-0.00014
22	12	11	21	11	10	1012.10488	-0.00003
22	11	11	21	12	10	1012.10488	-0.00003
22	13	9	23	14	10	983.17602	-0.00015
22	14	9	23	13	10	983.17602	-0.00015
22	14	9	21	13	8	1012.73449	-0.00004
22	13	9	21	14	8	1012.73449	-0.00004
22	14	8	23	15	9	982.81015	-0.00029
22	15	8	23	14	9	982.81015	-0.00031
22	3	19	21	4	18	1009.69553	0.00024
22	4	19	21	3	18	1009.69553	0.00024
22	15	8	21	14	7	1013.05591	-0.00033
22	14	8	21	15	7	1013.05591	-0.00011
23	10	14	24	9	15	984.17763	-0.00035
23	9	14	24	10	15	984.17763	-0.00035
23	10	14	22	9	13	1011.91449	-0.00020
23	9	14	22	10	13	1011.91449	-0.00020
23	11	13	22	10	12	1012.21936	0.00042
23	10	13	22	11	12	1012.21936	0.00042
23	6	17	24	7	18	985.31764	-0.00036
23	7	17	24	6	18	985.31764	-0.00036
23	6	17	22	7	16	1011.01620	-0.00011
23	7	17	22	6	16	1011.01620	-0.00011
23	7	16	24	8	17	984.93566	-0.00016
23	8	16	24	7	17	984.93566	-0.00016
23	7	16	22	8	15	1011.31333	-0.00017
23	8	16	22	7	15	1011.31333	-0.00017
23	13	11	24	12	12	983.05804	0.00024
23	12	11	24	13	12	983.05804	0.00024
23	13	11	22	12	10	1012.83574	0.00008
23	12	11	22	13	10	1012.83574	0.00008
23	1	22	22	2	21	1009.55982	-0.00013

23	2	22	22	1	21	1009.55982	-0.00013
23	13	10	24	14	11	982.68891	0.00030
23	14	10	24	13	11	982.68891	0.00030
23	8	15	24	9	16	984.55596	0.00015
23	9	15	24	8	16	984.55596	0.00015
23	14	10	22	13	9	1013.14907	0.00029
23	13	10	22	14	9	1013.14907	0.00029
23	8	15	22	9	14	1011.61280	-0.00013
23	9	15	22	8	14	1011.61280	-0.00013
23	11	13	24	10	14	983.80237	-0.00002
23	10	13	24	11	14	983.80237	-0.00002
23	15	9	22	14	8	1013.46598	0.00003
23	14	9	22	15	8	1013.46584	-0.00009
23	2	22	24	1	23	987.25854	-0.00010
23	1	22	24	2	23	987.25854	-0.00010
24	3	21	23	4	20	1010.57918	0.00040
24	4	21	23	3	20	1010.57918	0.00040
24	3	21	25	4	22	986.01386	0.00030
24	4	21	25	3	22	986.01386	0.00030
24	1	23	25	2	24	986.79981	0.00012
24	2	23	25	1	24	986.79981	0.00012
24	5	20	23	4	19	1010.86797	0.00031
24	4	20	23	5	19	1010.86797	0.00031
24	0	24	25	1	25	987.19486	-0.00029
24	1	24	25	0	25	987.19486	-0.00029
24	0	24	23	1	23	1009.72169	-0.00033
24	1	24	23	0	23	1009.72169	-0.00033
24	5	20	25	4	21	985.62333	0.00022
24	4	20	25	5	21	985.62333	0.00022
24	7	17	25	8	18	984.46327	0.00000
24	8	17	25	7	18	984.46327	0.00000
24	8	16	25	9	17	984.08043	-0.00035
24	9	16	25	8	17	984.08043	-0.00035
24	9	16	23	8	15	1012.04243	-0.00007
24	8	16	23	9	15	1012.04243	-0.00007
24	15	10	25	14	11	981.83160	0.00020
24	14	10	25	15	11	981.83160	0.00020
24	7	17	23	8	16	1011.74560	-0.00007
24	8	17	23	7	16	1011.74560	-0.00007
24	1	23	23	2	22	1010.00614	0.00006
24	2	23	23	1	22	1010.00614	0.00006
25	7	19	24	6	18	1011.88603	0.00015
25	6	19	24	7	18	1011.88603	0.00015

25	1	24	24	2	23	1010.45255	0.00030
25	2	24	24	1	23	1010.45255	0.00030
25	3	23	24	2	22	1010.73646	0.00075
25	2	23	24	3	22	1010.73646	0.00075
25	6	19	26	7	20	984.37814	0.00010
25	7	19	26	6	20	984.37814	0.00010
25	3	23	26	2	24	985.94552	0.00063
25	2	23	26	3	24	985.94552	0.00063
25	12	14	26	11	15	982.46399	-0.00006
25	11	14	26	12	15	982.46399	-0.00006
25	0	25	24	1	24	1010.16980	-0.00038
25	1	25	24	0	24	1010.16980	-0.00038
25	0	25	26	1	26	986.73797	-0.00027
25	1	25	26	0	26	986.73797	-0.00027
25	15	11	26	14	12	981.34188	0.00019
25	14	11	26	15	12	981.34188	0.00019
25	12	14	24	11	13	1013.36866	-0.00015
25	11	14	24	12	13	1013.36866	-0.00015
25	1	24	26	2	25	986.34096	0.00014
25	2	24	26	1	25	986.34096	0.00014

Table S3. Assigned transitions ( $\text{cm}^{-1}$ ) for the  $\nu_{23}$  band of TMO at  $1008 \text{ cm}^{-1}$ .

J' Ka' Kc'	J'' Ka'' Kc''	Frequency	Obs-Calc
4 2 3	3 1 2	1010.66364	0.00013
4 1 3	3 2 2	1010.66125	0.00018
4 1 3	5 2 4	1005.58901	0.00015
4 2 3	5 1 4	1005.58901	0.00006
5 0 5	6 1 6	1005.49307	-0.00026
5 1 5	6 0 6	1005.49307	-0.00026
5 1 5	4 0 4	1010.77653	0.00004
5 0 5	4 1 4	1010.77653	0.00005
5 2 4	6 1 5	1005.13639	0.00007

5	1	4	6	2	5	1005.13639	0.00008
5	1	4	4	2	3	1011.10763	0.00014
5	2	4	4	1	3	1011.10763	0.00004
6	0	6	5	1	5	1011.22481	-0.00006
6	1	6	5	0	5	1011.22481	-0.00006
7	0	7	8	1	8	1004.59429	-0.00001
7	1	7	8	0	8	1004.59429	-0.00001
7	1	7	6	0	6	1011.67308	-0.00031
7	0	7	6	1	6	1011.67308	-0.00031
6	2	4	7	3	5	1004.32667	-0.00011
6	3	4	7	2	5	1004.32667	-0.00013
7	2	6	8	1	7	1004.23138	-0.00016
7	1	6	8	2	7	1004.23138	-0.00016
6	3	4	5	2	3	1011.88431	-0.00008
6	2	4	5	3	3	1011.88431	0.00030
7	2	6	6	1	5	1011.99863	0.00003
7	1	6	6	2	5	1011.99863	0.00003
8	2	7	9	1	8	1003.77947	0.00009
8	1	7	9	2	8	1003.77947	0.00009
7	3	5	6	2	4	1012.32673	-0.00007
7	2	5	6	3	4	1012.32673	-0.00006
8	1	7	7	2	6	1012.44424	-0.00009
8	2	7	7	1	6	1012.44424	-0.00009
8	3	6	9	2	7	1003.41682	0.00020
8	2	6	9	3	7	1003.41682	0.00020
9	2	8	10	1	9	1003.32755	0.00019
9	1	8	10	2	9	1003.32755	0.00019
8	4	5	9	3	6	1003.05666	0.00001
8	3	5	9	4	6	1003.05666	0.00001
9	2	7	10	3	8	1002.96190	0.00016
9	3	7	10	2	8	1002.96190	0.00016
10	1	9	11	2	10	1002.87530	-0.00020
10	2	9	11	1	10	1002.87530	-0.00020
8	4	5	7	3	4	1013.09777	-0.00018
8	3	5	7	4	4	1013.09777	-0.00012
9	3	7	8	2	6	1013.21264	0.00013
9	2	7	8	3	6	1013.21264	0.00013
8	5	4	9	4	5	1002.69924	-0.00007
8	4	4	9	5	5	1002.69924	0.00008
10	2	8	9	3	7	1013.65545	-0.00011
10	3	8	9	2	7	1013.65545	-0.00011
12	0	12	11	1	11	1013.91774	-0.00010
12	1	12	11	0	11	1013.91774	-0.00010



11	3	9	12	2	10	1002.05233	-0.00009
11	2	9	12	3	10	1002.05233	-0.00009
12	2	11	13	1	12	1001.97214	-0.00007
12	1	11	13	2	12	1001.97214	-0.00007
13	0	13	14	1	14	1001.90064	-0.00012
13	1	13	14	0	14	1001.90064	-0.00012
11	3	9	10	2	8	1014.09879	0.00005
11	2	9	10	3	8	1014.09879	0.00005
12	1	11	11	2	10	1014.22850	0.00002
12	2	11	11	1	10	1014.22850	0.00002
13	1	13	12	0	12	1014.36712	0.00004
13	0	13	12	1	12	1014.36712	0.00004
9	6	4	10	5	5	1001.88133	0.00005
9	5	4	10	6	5	1001.88133	0.00045
13	2	12	14	1	13	1001.52093	0.00014
13	1	12	14	2	13	1001.52093	0.00014
14	1	14	15	0	15	1001.45232	-0.00004
14	0	14	15	1	15	1001.45232	-0.00004
9	5	4	8	6	3	1014.19634	0.00001
9	6	4	8	5	3	1014.20268	-0.00007
14	0	14	13	1	13	1014.81621	-0.00022
14	1	14	13	0	13	1014.81621	-0.00022
9	6	3	10	7	4	1001.51739	-0.00007
10	5	5	11	6	6	1001.41830	0.00006
10	6	5	11	5	6	1001.41830	0.00004
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11	5	7	12	4	8	1001.31821	-0.00005
9	6	3	8	7	2	1014.49018	0.00012
10	6	5	9	5	4	1014.63239	-0.00024
10	5	5	9	6	4	1014.63239	0.00019
11	5	7	10	4	6	1014.74043	-0.00017
11	4	7	10	5	6	1014.74043	-0.00017
15	1	15	14	0	14	1015.26565	-0.00024
15	0	15	14	1	14	1015.26565	-0.00024
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12	4	8	13	5	9	1000.85819	0.00006
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12	4	8	11	5	7	1015.17808	0.00010
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13	6	8	14	5	9	1000.02954	-0.00006
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17	2	16	18	1	17	999.71649	-0.00012
17	1	16	18	2	17	999.71649	-0.00012
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13	6	8	12	5	7	1015.93514	0.00008
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13	6	7	14	7	8	999.66342	-0.00035
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15	5	11	16	4	12	999.47859	0.00000
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16	4	13	17	3	14	999.39901	0.00006
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13	6	7	12	7	6	1016.25800	0.00017
16	3	13	15	4	12	1016.62105	0.00006
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13	7	6	14	8	7	999.30043	0.00000
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15	6	10	16	5	11	999.10455	0.00018
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13	8	6	12	7	5	1016.58458	0.00019
13	7	6	12	8	5	1016.58458	0.00033
15	6	10	14	5	9	1016.80444	-0.00003
15	5	10	14	6	9	1016.80444	-0.00003
17	4	14	16	3	13	1017.06177	-0.00009
17	3	14	16	4	13	1017.06177	-0.00009
13	8	5	14	9	6	998.93879	0.00000
13	9	5	14	8	6	998.93879	-0.00029
17	5	13	18	4	14	998.55987	0.00025
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13	9	5	12	8	4	1016.91807	-0.00016
13	8	5	12	9	4	1016.91368	-0.00035

18	3	15	17	4	14	1017.50254	-0.00027
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14	8	6	13	9	5	1017.33952	0.00012
14	9	6	13	8	5	1017.33952	-0.00019
15	7	8	14	8	7	1017.44112	0.00013
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22	0	22	21	1	21	1018.41455	-0.00025
22	1	22	21	0	21	1018.41455	-0.00025
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20	3	17	21	4	18	997.57353	-0.00010
15	10	6	16	9	7	997.63413	0.00003
15	9	6	16	10	7	997.63413	0.00007
17	7	10	18	8	11	997.42849	0.00012
17	8	10	18	7	11	997.42849	0.00012
19	5	14	20	6	15	997.25554	-0.00006
19	6	14	20	5	15	997.25554	-0.00006
19	6	14	18	5	13	1018.54470	0.00018
19	5	14	18	6	13	1018.54470	0.00018
24	0	24	23	1	23	1019.31521	-0.00008
24	1	24	23	0	23	1019.31521	-0.00008
20	6	15	21	5	16	996.79365	-0.00011
20	5	15	21	6	16	996.79365	-0.00011
22	4	19	23	3	20	996.66160	-0.00024
22	3	19	23	4	20	996.66160	-0.00024
24	2	23	25	1	24	996.56478	-0.00017
24	1	23	25	2	24	996.56478	-0.00017
21	5	17	20	4	16	1019.11915	0.00003
21	4	17	20	5	16	1019.11915	0.00003
22	3	19	21	4	18	1019.26713	-0.00030
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23	4	20	24	3	21	996.20613	-0.00003
23	3	20	24	4	21	996.20613	-0.00003
26	1	26	27	0	27	996.08287	-0.00011
26	0	26	27	1	27	996.08287	-0.00011
16	10	6	15	11	5	1018.84244	0.00026
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16	11	5	17	12	6	996.43094	0.00003
25	3	23	26	2	24	995.70384	-0.00004
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16	11	5	15	12	4	1019.16946	-0.00004
17	11	7	16	10	6	1019.26067	0.00000
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19	9	11	18	8	10	1019.46788	-0.00001
19	8	11	18	9	10	1019.46788	-0.00001
25	3	23	24	2	22	1020.31344	-0.00007
25	2	23	24	3	22	1020.31344	-0.00007
27	1	27	26	0	26	1020.66703	0.00002
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25	4	22	26	3	23	995.29533	0.00007
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25	5	21	26	4	22	994.88945	-0.00007
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17	13	5	16	12	4	1019.95296	-0.00006
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18	12	6	17	13	5	1020.33497	0.00009
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28	3	25	29	4	26	993.93040	0.00005
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19	14	6	20	13	7	994.26547	-0.00038
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20	12	8	21	13	9	994.15243	0.00026
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21	12	10	22	11	11	994.04353	0.00004
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27	6	22	28	5	23	993.56491	0.00009
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31	1	30	32	2	31	993.41691	-0.00016
19	14	6	18	13	5	1021.08517	0.00009
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21	11	10	20	12	9	1021.25399	0.00008
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32	0	32	31	1	31	1022.91847	0.00016
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20	14	7	21	13	8	993.78399	0.00002
25	9	17	26	8	18	993.29569	0.00020
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21	13	8	22	14	9	993.30159	0.00037
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28	6	22	29	7	23	992.69543	-0.00004
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33	1	32	34	2	33	992.52047	0.00015
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21	14	8	20	13	7	1021.89472	0.00007
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22	12	10	21	13	9	1021.98594	0.00017
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33	2	32	32	1	31	1023.61699	0.00006
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28	8	21	29	7	22	992.28965	-0.00007
28	7	21	29	8	22	992.28965	-0.00007
31	5	27	32	4	28	992.14744	0.00008
31	4	27	32	5	28	992.14744	0.00008
31	5	27	30	4	26	1023.50904	-0.00035
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22	14	8	23	15	9	992.44755	0.00019
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24	13	12	25	12	13	992.22819	-0.00005
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27	10	18	28	9	19	991.95949	0.00018
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34	3	32	35	2	33	991.63307	0.00012
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22	15	7	23	16	8	992.07747	0.00006
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33	4	29	32	5	28	1024.37074	-0.00060
36	1	35	35	2	34	1024.96024	0.00003
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23	16	8	24	15	9	991.59067	0.00009
23	15	8	24	16	9	991.59067	0.00010
28	10	18	29	11	19	991.09013	0.00009
28	11	18	29	10	19	991.09013	0.00009
31	7	24	32	8	25	990.89117	-0.00004
31	8	24	32	7	25	990.89117	-0.00004
32	6	26	33	7	27	990.84416	-0.00028
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24	14	10	23	15	9	1023.44138	0.00013
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27	12	16	26	11	15	1023.75885	0.00029
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29	11	19	28	10	18	1024.30398	0.00016
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35	5	31	34	4	30	1025.25147	-0.00011
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39	1	39	38	0	38	1026.07309	-0.00004
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29	12	18	30	11	19	990.21803	0.00000
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33	8	26	34	7	27	989.96146	-0.00022
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24	17	8	23	16	7	1024.08701	-0.00002
24	16	8	23	17	7	1024.08701	0.00038
24	17	7	25	18	8	990.35863	0.00033
24	18	7	25	17	8	990.35863	-0.00033
24	17	7	23	18	6	1024.41849	-0.00005
24	18	7	23	17	6	1024.42546	-0.00009
33	9	25	34	8	26	989.54254	-0.00007
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25	16	9	24	17	8	1024.48549	-0.00004
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40	1	39	39	2	38	1026.75098	0.00017
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25	18	8	26	17	9	989.86836	0.00028
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30	12	18	29	13	17	1025.30148	0.00018
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26	17	9	27	18	10	989.37582	0.00006
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27	17	11	28	16	12	989.25843	-0.00015
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43	1	43	44	0	44	988.50453	0.00027
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30	14	17	29	13	16	1025.59449	0.00011
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39	5	35	38	4	34	1027.09304	0.00018
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40	3	37	39	4	36	1027.21982	-0.00002
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25	20	6	26	19	7	989.12343	0.00031
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27	17	10	26	18	9	1025.60389	-0.00017
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37	8	30	36	7	29	1026.87318	-0.00017
37	7	30	36	8	29	1026.87318	-0.00017
38	6	32	37	7	31	1027.04964	-0.00001
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26	20	7	27	19	8	988.62785	0.00005
33	13	21	34	12	22	987.90138	-0.00009
33	12	21	34	13	22	987.90138	-0.00009
35	11	25	36	10	26	987.76785	0.00003
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38	8	31	39	7	32	987.61199	0.00021
38	7	31	39	8	32	987.61199	0.00021
40	5	35	41	6	36	987.70757	0.00056
40	6	35	41	5	36	987.70757	0.00056
45	1	45	46	0	46	987.61461	0.00030
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26	20	7	25	19	6	1025.88745	0.00016
28	18	11	27	17	10	1026.00169	-0.00015
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34	11	23	33	12	22	1026.68120	-0.00008
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40	5	35	39	6	34	1027.81524	-0.00015
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43	3	41	42	2	40	1028.31525	-0.00004
43	2	41	42	3	40	1028.31525	-0.00004
40	6	34	41	7	35	987.08253	-0.00006
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43	3	40	44	4	41	987.11777	0.00041

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44	2	42	45	3	43	987.12500	0.00036
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38	8	30	37	9	29	1027.55254	-0.00039
38	9	30	37	8	29	1027.55254	-0.00039
35	13	23	34	12	22	1027.37289	-0.00036
35	12	23	34	13	22	1027.37289	-0.00036
42	5	37	41	6	36	1028.58124	0.00010
42	6	37	41	5	36	1028.58124	0.00010
43	5	39	42	4	38	1028.77285	-0.00005
43	4	39	42	5	38	1028.77285	-0.00005
33	15	18	34	16	19	986.70232	-0.00007
33	16	18	34	15	19	986.70232	-0.00007
34	14	20	35	15	21	986.61268	-0.00023
34	15	20	35	14	21	986.61268	-0.00023
36	12	24	37	13	25	986.46061	-0.00004
36	13	24	37	12	25	986.46061	-0.00004
29	20	10	28	19	9	1027.03228	-0.00024
29	19	10	28	20	9	1027.03228	-0.00022
36	12	24	35	13	23	1027.78745	-0.00036
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28	21	7	29	22	8	986.87859	-0.00002
28	22	7	29	21	8	986.88432	0.00018
36	13	23	37	14	24	986.04864	-0.00023
36	14	23	37	13	24	986.04864	-0.00023
42	7	35	43	8	36	985.99558	0.00045
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43	7	37	44	6	38	985.78363	-0.00008
43	6	37	44	7	38	985.78363	-0.00008
47	2	45	48	3	46	985.77264	0.00013
47	3	45	48	2	46	985.77264	0.00013
28	21	7	27	22	6	1027.30571	-0.00020
28	22	7	27	21	6	1027.35008	0.00015
29	20	9	28	21	8	1027.35768	0.00000
29	21	9	28	20	8	1027.35768	-0.00035
34	15	19	33	16	18	1027.81022	-0.00065
34	16	19	33	15	18	1027.81022	-0.00065
36	13	23	35	14	22	1028.06158	-0.00047
36	14	23	35	13	22	1028.06158	-0.00047
40	9	31	39	10	30	1028.64649	-0.00037
40	10	31	39	9	30	1028.64649	-0.00037
49	1	49	48	0	48	1030.57632	-0.00092
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32	18	14	33	19	15	986.02550	-0.00027
32	19	14	33	18	15	986.02550	-0.00027
33	17	16	34	18	17	985.91744	0.00034
33	18	16	34	17	17	985.91744	0.00034
34	16	18	35	17	19	985.81660	0.00005
34	17	18	35	16	19	985.81660	0.00005
45	6	40	46	5	41	985.29520	0.00017
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36	14	22	35	15	21	1028.33935	-0.00037
36	15	22	35	14	21	1028.33935	-0.00037
39	12	28	38	11	27	1028.73073	-0.00005
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40	10	30	39	11	29	1028.90077	-0.00021
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41	10	32	40	9	31	1029.05940	0.00001
41	9	32	40	10	31	1029.05940	0.00001
47	4	44	46	3	43	1030.30521	-0.00042
47	3	44	46	4	43	1030.30521	-0.00042
51	0	51	52	1	52	984.94495	-0.00051
51	1	51	52	0	52	984.94495	-0.00051
35	17	19	34	16	18	1028.50280	-0.00027
35	16	19	34	17	18	1028.50280	-0.00027
36	15	21	35	16	20	1028.62085	0.00019
36	16	21	35	15	20	1028.62085	0.00019
44	7	37	43	8	36	1029.94115	0.00005
44	8	37	43	7	36	1029.94115	0.00005
45	7	39	44	6	38	1030.11293	0.00005
45	6	39	44	7	38	1030.11293	0.00005
38	14	24	39	15	25	984.66841	-0.00007
38	15	24	39	14	25	984.66841	-0.00007
46	6	40	47	7	41	984.38211	0.00021
46	7	40	47	6	41	984.38211	0.00021
31	21	10	30	22	9	1028.45012	-0.00026
31	22	10	30	21	9	1028.45012	-0.00033
34	19	16	33	18	15	1028.69127	-0.00001
34	18	16	33	19	15	1028.69127	-0.00001
39	14	26	38	13	25	1029.30363	0.00002
39	13	26	38	14	25	1029.30363	0.00002
41	12	30	40	11	29	1029.56950	0.00012
41	11	30	40	12	29	1029.56950	0.00012
43	10	34	42	9	33	1029.82732	-0.00005
43	9	34	42	10	33	1029.82732	-0.00005
48	4	44	47	5	43	1030.96051	-0.00047

48	5	44	47	4	43	1030.96051	-0.00047
30	23	7	31	24	8	985.11414	-0.00028
30	24	7	31	23	8	985.12824	-0.00022
43	11	33	44	10	34	983.89875	0.00056
43	10	33	44	11	34	983.89875	0.00056
30	23	7	29	24	6	1028.72480	-0.00010
30	24	7	29	23	6	1028.82160	0.00024
31	22	9	30	23	8	1028.77896	0.00018
31	23	9	30	22	8	1028.77896	-0.00090
44	9	35	43	10	34	1030.04851	0.00009
44	10	35	43	9	34	1030.04851	0.00009
46	7	39	45	8	38	1030.78091	0.00014
46	8	39	45	7	38	1030.78091	0.00014
47	7	41	46	6	40	1030.97230	-0.00034
47	6	41	46	7	40	1030.97230	-0.00034
43	12	32	44	11	33	983.47783	0.00030
43	11	32	44	12	33	983.47783	0.00030
35	19	16	34	20	15	1029.38418	0.00025
35	20	16	34	19	15	1029.38418	0.00025
42	12	30	41	13	29	1030.23369	-0.00028
42	13	30	41	12	29	1030.23369	-0.00028
45	10	36	44	9	35	1030.93335	-0.00034
45	9	36	44	10	35	1030.93335	-0.00034
32	24	9	33	23	10	984.12341	0.00001
32	23	9	33	24	10	984.12341	0.00014
48	7	41	49	8	42	983.00075	0.00053
48	8	41	49	7	42	983.00075	0.00053
38	17	21	37	18	20	1029.98873	-0.00022
38	18	21	37	17	20	1029.98873	-0.00022
34	23	12	35	22	13	983.49088	0.00050
34	22	12	35	23	13	983.49088	0.00050
37	20	18	38	19	19	983.14244	0.00020
37	19	18	38	20	19	983.14244	0.00020
38	18	20	39	19	21	983.04126	0.00027
38	19	20	39	18	21	983.04126	0.00027
46	10	36	47	11	37	982.73432	0.00032
46	11	36	47	10	37	982.73432	0.00032
33	24	10	32	23	9	1029.85776	-0.00033
33	23	10	32	24	9	1029.85776	-0.00012
34	23	12	33	22	11	1029.91508	0.00031
34	22	12	33	23	11	1029.91508	0.00031
38	18	20	37	19	19	1030.27289	-0.00047
38	19	20	37	18	19	1030.27289	-0.00047

39	18	22	38	17	21	1030.38653	-0.00052
39	17	22	38	18	21	1030.38653	-0.00052
40	16	24	39	17	23	1030.51045	-0.00045
40	17	24	39	16	23	1030.51045	-0.00045
43	14	30	42	13	29	1030.89489	0.00015
43	13	30	42	14	29	1030.89489	0.00015
49	8	42	48	7	41	1032.05888	-0.00040
49	7	42	48	8	41	1032.05888	-0.00040
38	19	19	39	20	20	982.64171	0.00003
38	20	19	39	19	20	982.64171	0.00003
46	11	35	47	12	36	981.73103	0.00088
46	12	35	47	11	36	981.73103	0.00088
37	21	17	36	20	16	1030.46304	-0.00005
37	20	17	36	21	16	1030.46304	-0.00005
38	19	19	37	20	18	1030.56085	-0.00017
38	20	19	37	19	18	1030.56085	-0.00017
39	19	21	38	18	20	1030.66800	-0.00032
39	18	21	38	19	20	1030.66800	-0.00032
40	17	23	39	18	22	1030.78451	-0.00058
40	18	23	39	17	22	1030.78451	-0.00058
41	17	25	40	16	24	1030.91478	0.00033
41	16	25	40	17	24	1030.91478	0.00033
43	15	29	42	14	28	1031.15264	0.00049
43	14	29	42	15	28	1031.15264	0.00049
46	11	35	45	12	34	1031.31132	0.00031
46	12	35	45	11	34	1031.31132	0.00031
35	23	12	36	24	13	982.60145	0.00059
35	24	12	36	23	13	982.60145	0.00059
38	21	18	39	20	19	982.24571	0.00054
38	20	18	39	21	19	982.24571	0.00054
38	20	18	37	21	17	1030.85188	-0.00011
38	21	18	37	20	17	1030.85188	-0.00011
28	0	28	29	1	29	995.19248	0.00008
28	1	28	29	0	29	995.19248	0.00008
28	0	28	27	1	27	1021.11966	0.00005
28	1	28	27	0	27	1021.11966	0.00005
29	2	28	30	1	29	994.32540	0.00040
29	1	28	30	2	29	994.32540	0.00040
29	1	28	28	2	27	1021.83564	0.00025
29	2	28	28	1	27	1021.83564	0.00025
30	0	30	31	1	31	994.29556	-0.00015
30	1	30	31	0	31	994.29556	-0.00015
30	1	30	29	0	29	1022.01644	-0.00016

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34	1	33	33	2	32	1024.06481	0.00007
34	2	33	33	1	32	1024.06481	0.00007
34	1	33	35	2	34	992.07188	0.00009
34	2	33	35	1	34	992.07188	0.00009
31	2	29	32	3	30	992.98374	-0.00042
31	3	29	32	2	30	992.98374	-0.00042
32	3	30	33	2	31	992.53519	-0.00020
32	2	30	33	3	31	992.53519	-0.00020
31	3	29	30	2	28	1022.97358	-0.00035
31	2	29	30	3	28	1022.97358	-0.00035
32	2	30	31	3	29	1023.42178	0.00024
32	3	30	31	2	29	1023.42178	0.00024
29	0	29	28	1	28	1021.56426	-0.00012
29	1	29	28	0	28	1021.56426	-0.00012
29	1	29	30	0	30	994.74029	-0.00001
29	0	29	30	1	30	994.74029	-0.00001
28	2	26	29	3	27	994.34806	0.00020
28	3	26	29	2	27	994.34806	0.00020
28	3	26	27	2	25	1021.64775	-0.00019
28	2	26	27	3	25	1021.64775	-0.00019
29	2	27	28	3	26	1022.09395	-0.00005
29	3	27	28	2	26	1022.09395	-0.00005
29	3	27	30	2	28	993.89723	-0.00006
29	2	27	30	3	28	993.89723	-0.00006
30	5	25	31	6	26	992.18307	-0.00059
30	6	25	31	5	26	992.18307	-0.00059
30	5	25	29	6	24	1023.33553	-0.00022
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32	4	29	33	3	30	992.10180	-0.00029
33	3	31	34	2	32	992.08438	-0.00004
33	2	31	34	3	32	992.08438	-0.00004
32	3	29	31	4	28	1023.67379	-0.00044
32	4	29	31	3	28	1023.67379	-0.00044
33	3	31	32	2	30	1023.86660	-0.00027
33	2	31	32	3	30	1023.86660	-0.00027
35	1	34	36	2	35	991.62379	0.00049
35	2	34	36	1	35	991.62379	0.00049
35	2	34	34	1	33	1024.51264	0.00015
35	1	34	34	2	33	1024.51264	0.00015
30	8	23	31	7	24	991.35727	0.00012
30	7	23	31	8	24	991.35727	0.00012

31	7	25	32	6	26	991.30685	0.00073
31	6	25	32	7	26	991.30685	0.00073
35	3	33	36	2	34	991.18139	0.00036
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30	7	23	29	8	22	1023.88224	0.00026
30	8	23	29	7	22	1023.88224	0.00026
31	7	25	30	6	24	1024.04059	0.00005
31	6	25	30	7	24	1024.04059	0.00005
35	3	33	34	2	32	1024.75570	-0.00008
35	2	33	34	3	32	1024.75570	-0.00008
34	5	30	35	4	31	990.76267	-0.00005
34	4	30	35	5	31	990.76267	-0.00005
35	3	32	36	4	33	990.74210	0.00018
35	4	32	36	3	33	990.74210	0.00018
34	4	30	33	5	29	1024.81247	-0.00038
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35	4	32	34	3	31	1025.00240	0.00015
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30	5	26	31	4	27	992.60174	0.00005
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30	4	26	29	5	25	1023.06723	-0.00025
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18	10	8	19	11	9	995.84540	-0.00008
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26	2	24	27	3	25	995.25144	-0.00014
26	3	24	27	2	25	995.25144	-0.00014
27	1	26	28	2	27	995.21675	-0.00005
27	2	26	28	1	27	995.21675	-0.00005
18	10	8	17	11	7	1019.67976	0.00011
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26	2	24	25	3	23	1020.75770	-0.00041
26	3	24	25	2	23	1020.75770	-0.00041
27	2	26	26	1	25	1020.93351	-0.00008
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19	11	9	20	10	10	995.36964	-0.00002
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22	7	15	23	8	16	995.09088	0.00017
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26	4	23	27	3	24	994.83986	-0.00020
26	3	23	27	4	24	994.83986	-0.00020
27	3	25	28	2	26	994.79956	0.00004
27	2	25	28	3	26	994.79956	0.00004
28	1	27	29	2	28	994.76827	-0.00008

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19	10	9	18	11	8	1020.09943	0.00013
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22	7	15	21	8	14	1020.44528	0.00017
22	8	15	21	7	14	1020.44528	0.00017
26	3	23	25	4	22	1021.03301	-0.00027
26	4	23	25	3	22	1021.03301	-0.00027
27	3	25	26	2	24	1021.20290	0.00004
27	2	25	26	3	24	1021.20290	0.00004
28	1	27	27	2	26	1021.38179	-0.00019
28	2	27	27	1	26	1021.38179	-0.00019
19	11	8	20	12	9	995.00040	0.00015
19	12	8	20	11	9	995.00040	0.00015
27	4	24	28	3	25	994.38504	-0.00003
27	3	24	28	4	25	994.38504	-0.00003
19	12	8	18	11	7	1020.42025	-0.00033
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27	4	24	26	3	23	1021.47523	0.00024
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20	11	9	21	12	10	994.52194	0.00004
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21	11	11	22	10	12	994.41818	0.00011
21	10	11	22	11	12	994.41818	0.00011
30	1	29	31	2	30	993.86334	-0.00015
30	2	29	31	1	30	993.86334	-0.00015
31	0	31	32	1	32	993.84978	-0.00015
31	1	31	32	0	32	993.84978	-0.00015
20	12	9	19	11	8	1020.83703	0.00002
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21	11	11	20	10	10	1020.93985	0.00035
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30	1	29	29	2	28	1022.27042	-0.00015
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31	1	31	30	0	30	1022.46735	-0.00020
31	0	31	30	1	30	1022.46735	-0.00020
29	4	26	30	3	27	993.47613	-0.00003
29	3	26	30	4	27	993.47613	-0.00003
30	3	28	31	2	29	993.45801	-0.00005
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29	4	26	28	3	25	1022.35916	-0.00008
29	3	26	28	4	25	1022.35916	-0.00008
30	2	28	29	3	27	1022.55114	-0.00021
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29	5	25	30	4	26	993.05832	-0.00008
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30	3	27	31	4	28	993.02358	-0.00002
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30	3	27	29	4	26	1022.80286	-0.00027
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23	11	12	24	12	13	993.08684	0.00019
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23	12	12	22	11	11	1022.08837	0.00000
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27	9	19	28	8	20	992.35627	-0.00005
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21	15	7	20	14	6	1022.22393	-0.00024
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31	6	26	32	5	27	991.72438	-0.00007
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31	6	26	30	5	25	1023.77271	0.00006
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33	4	30	32	3	29	1024.11892	-0.00001
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24	13	11	25	14	12	991.85030	-0.00053
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23	14	9	22	15	8	1023.03409	0.00004
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24	13	11	23	14	10	1023.12574	-0.00010
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24	15	9	25	16	10	991.10266	0.00002

24	16	9	25	15	10	991.10266	0.00003
24	15	9	23	16	8	1023.76122	0.00012
24	16	9	23	15	8	1023.76122	0.00011
27	12	15	28	13	16	990.78564	0.00014
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32	8	25	33	7	26	990.42567	-0.00010
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33	7	27	34	6	28	990.38718	-0.00049
33	6	27	34	7	28	990.38718	-0.00049
34	6	29	35	5	30	990.32895	-0.00029
34	5	29	35	6	30	990.32895	-0.00029
36	4	33	37	3	34	990.28556	-0.00034
36	3	33	37	4	34	990.28556	-0.00034
27	13	15	26	12	14	1024.05770	0.00007
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32	7	25	31	8	24	1024.74226	0.00005
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34	5	29	33	6	28	1025.06456	-0.00060
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36	3	33	35	4	32	1025.44186	-0.00025
36	4	33	35	3	32	1025.44186	-0.00025
35	5	30	36	6	31	989.87163	-0.00002
35	6	30	36	5	31	989.87163	-0.00002
35	6	30	34	5	29	1025.50290	-0.00036
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35	7	29	36	6	30	989.43821	-0.00010
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36	6	31	37	5	32	989.41123	0.00010
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37	4	33	38	5	34	989.38666	0.00027
37	5	33	38	4	34	989.38666	0.00027
35	7	29	34	6	28	1025.75500	-0.00061
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36	5	31	35	6	30	1025.93820	-0.00012
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37	5	33	36	4	32	1026.12358	-0.00011
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34	9	26	35	8	27	989.07584	-0.00032
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36	7	30	37	6	31	988.97726	-0.00011
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34	8	26	33	9	25	1025.86894	-0.00076
34	9	26	33	8	25	1025.86894	-0.00076
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28	15	13	29	16	14	989.14706	-0.00047
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29	14	15	30	15	16	989.04453	0.00027
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34	9	25	35	10	26	988.65651	-0.00012
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36	7	29	37	8	30	988.54411	-0.00020
36	8	29	37	7	30	988.54411	-0.00020
37	6	31	38	7	32	988.51282	-0.00037
37	7	31	38	6	32	988.51282	-0.00037
38	5	33	39	6	34	988.48220	-0.00029
38	6	33	39	5	34	988.48220	-0.00029
28	15	13	27	16	12	1025.37890	-0.00044
28	16	13	27	15	12	1025.37890	-0.00044
29	15	15	28	14	14	1025.48219	0.00008
29	14	15	28	15	14	1025.48219	0.00008
34	9	25	33	10	24	1026.13613	-0.00001
34	10	25	33	9	24	1026.13613	-0.00001
36	7	29	35	8	28	1026.44201	-0.00063
36	8	29	35	7	28	1026.44201	-0.00063
37	7	31	36	6	30	1026.62105	-0.00021
37	6	31	36	7	30	1026.62105	-0.00021
38	5	33	37	6	32	1026.80044	-0.00007
38	6	33	37	5	32	1026.80044	-0.00007
35	9	26	36	10	27	988.18770	-0.00021
35	10	26	36	9	27	988.18770	-0.00021
39	6	34	40	5	35	988.00191	-0.00012
39	5	34	40	6	35	988.00191	-0.00012
35	10	26	34	9	25	1026.56218	-0.00038
35	9	26	34	10	25	1026.56218	-0.00038
39	6	34	38	5	33	1027.21532	0.00003
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34	12	22	35	13	23	987.42099	0.00000
34	13	22	35	12	23	987.42099	0.00000
35	12	24	36	11	25	987.35251	0.00007
35	11	24	36	12	25	987.35251	0.00007
36	11	26	37	10	27	987.29665	-0.00029
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39	8	32	40	7	33	987.13987	-0.00040

39	7	32	40	8	33	987.13987	-0.00040
34	12	22	33	13	21	1026.95875	-0.00016
34	13	22	33	12	21	1026.95875	-0.00016
35	12	24	34	11	23	1027.09903	0.00006
35	11	24	34	12	23	1027.09903	0.00006
36	10	26	35	11	25	1027.25181	-0.00055
36	11	26	35	10	25	1027.25181	-0.00055
39	8	32	38	7	31	1027.72349	-0.00030
39	7	32	38	8	31	1027.72349	-0.00030
36	11	25	37	12	26	986.87618	0.00001
36	12	25	37	11	26	986.87618	0.00001
38	9	29	39	10	30	986.74684	-0.00007
38	10	29	39	9	30	986.74684	-0.00007
39	8	31	40	9	32	986.70716	0.00030
39	9	31	40	8	32	986.70716	0.00030
40	7	33	41	8	34	986.66154	-0.00007
40	8	33	41	7	34	986.66154	-0.00007
36	11	25	35	12	24	1027.51718	-0.00024
36	12	25	35	11	24	1027.51718	-0.00024
38	9	29	37	10	28	1027.80581	-0.00042
38	10	29	37	9	28	1027.80581	-0.00042
39	9	31	38	8	30	1027.97538	-0.00019
39	8	31	38	9	30	1027.97538	-0.00019
40	7	33	39	8	32	1028.13983	-0.00011
40	8	33	39	7	32	1028.13983	-0.00011
35	14	22	36	13	23	986.53222	0.00012
35	13	22	36	14	23	986.53222	0.00012
39	9	30	40	10	31	986.27486	-0.00002
39	10	30	40	9	31	986.27486	-0.00002
40	9	32	41	8	33	986.23074	0.00039
40	8	32	41	9	33	986.23074	0.00039
41	7	34	42	8	35	986.15865	0.00037
41	8	34	42	7	35	986.15865	0.00037
42	7	36	43	6	37	986.26853	0.00025
42	6	36	43	7	37	986.26853	0.00025
35	14	22	34	13	21	1027.65085	-0.00005
35	13	22	34	14	21	1027.65085	-0.00005
39	10	30	38	9	29	1028.22858	-0.00024
39	9	30	38	10	29	1028.22858	-0.00024
40	8	32	39	9	31	1028.39408	0.00037
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41	8	34	40	7	33	1028.53106	-0.00023
41	7	34	40	8	33	1028.53106	-0.00023

42	6	36	41	7	35	1028.85131	0.00014
42	7	36	41	6	35	1028.85131	0.00014
38	11	27	39	12	28	985.96055	0.00037
38	12	27	39	11	28	985.96055	0.00037
39	11	29	40	10	30	985.84365	0.00020
39	10	29	40	11	30	985.84365	0.00020
41	9	33	42	8	34	985.74497	0.00027
41	8	33	42	9	34	985.74497	0.00027
38	11	27	37	12	26	1028.39085	0.00039
38	12	27	37	11	26	1028.39085	0.00039
39	11	29	38	10	28	1028.48239	-0.00030
39	10	29	38	11	28	1028.48239	-0.00030
41	9	33	40	8	32	1028.80230	-0.00029
41	8	33	40	9	32	1028.80230	-0.00029
30	20	10	31	21	11	986.26307	-0.00038
30	21	10	31	20	11	986.26307	-0.00039
37	14	24	38	13	25	985.56603	0.00003
37	13	24	38	14	25	985.56603	0.00003
42	9	34	43	8	35	985.22986	0.00045
42	8	34	43	9	35	985.22986	0.00045
43	8	36	44	7	37	985.38216	0.00036
43	7	36	44	8	37	985.38216	0.00036
44	7	38	45	6	39	985.31356	0.00048
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46	4	42	47	5	43	985.29369	0.00073
46	5	42	47	4	43	985.29369	0.00073
48	3	46	49	2	47	985.32191	0.00003
48	2	46	49	3	47	985.32191	0.00003
50	1	50	51	0	51	985.38973	-0.00047
50	0	50	51	1	51	985.38973	-0.00047
30	21	10	29	20	9	1027.74251	-0.00028
30	20	10	29	21	9	1027.74251	-0.00024
33	17	16	32	18	15	1027.99565	0.00005
33	18	16	32	17	15	1027.99565	0.00005
37	14	24	36	13	23	1028.47350	0.00006
37	13	24	36	14	23	1028.47350	0.00006
42	8	34	41	9	33	1029.18124	-0.00045
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43	8	36	42	7	35	1029.54374	-0.00005
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44	6	38	43	7	37	1029.68547	0.00044
44	7	38	43	6	37	1029.68547	0.00044
46	4	42	45	5	41	1030.08529	-0.00027

46	5	42	45	4	41	1030.08529	-0.00027
48	2	46	47	3	45	1030.53532	-0.00084
48	3	46	47	2	45	1030.53532	-0.00084
38	13	25	39	14	26	985.08433	-0.00002
38	14	25	39	13	26	985.08433	-0.00002
40	11	29	41	12	30	984.93697	0.00020
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41	11	31	42	10	32	984.88624	-0.00017
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43	9	35	44	8	36	985.13947	0.00026
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47	4	43	48	5	44	984.83654	0.00027
47	5	43	48	4	44	984.83654	0.00027
49	2	47	50	3	48	984.87169	0.00041
49	3	47	50	2	48	984.87169	0.00041
50	1	49	51	2	50	984.90349	-0.00006
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38	13	25	37	14	24	1028.88576	-0.00015
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40	11	29	39	12	28	1029.15536	-0.00019
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41	11	31	40	10	30	1029.31413	-0.00006
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43	9	35	42	8	34	1029.98550	-0.00024
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47	5	43	46	4	42	1030.52312	-0.00016
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49	3	47	48	2	46	1030.97976	-0.00032
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32	21	12	33	20	13	985.26103	0.00036
32	20	12	33	21	13	985.26103	0.00036
35	17	18	36	18	19	984.92797	0.00006
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36	16	20	37	17	21	984.83279	0.00020
36	17	20	37	16	21	984.83279	0.00020
37	16	22	38	15	23	984.74572	-0.00009
37	15	22	38	16	23	984.74572	-0.00009
42	10	32	43	11	33	984.39923	0.00025
42	11	32	43	10	33	984.39923	0.00025
47	5	42	48	6	43	984.37522	0.00054
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50	2	48	51	3	49	984.42084	0.00013
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35	17	18	34	18	17	1028.79346	-0.00004
35	18	18	34	17	17	1028.79346	-0.00004
36	16	20	35	17	19	1028.90520	0.00038
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37	16	22	36	15	21	1029.02514	-0.00022
37	15	22	36	16	21	1029.02514	-0.00022
42	10	32	41	11	31	1029.72078	-0.00005
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47	6	42	46	5	41	1030.74521	-0.00022
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35	19	17	36	18	18	984.53435	0.00029
35	18	17	36	19	18	984.53435	0.00029
36	17	19	37	18	20	984.43320	0.00009
36	18	19	37	17	20	984.43320	0.00009
37	17	21	38	16	22	984.34063	0.00012
37	16	21	38	17	22	984.34063	0.00012
38	15	23	39	16	24	984.25636	-0.00037
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39	15	25	40	14	26	984.18431	0.00015
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45	9	37	46	8	38	983.98676	0.00037
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49	4	45	50	5	46	983.92309	-0.00009
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35	19	17	34	18	16	1029.08709	-0.00012
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36	17	19	35	18	18	1029.19204	-0.00013
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37	17	21	36	16	20	1029.30603	-0.00036
37	16	21	36	17	20	1029.30603	-0.00036
38	15	23	37	16	22	1029.42939	-0.00064
38	16	23	37	15	22	1029.42939	-0.00064
45	9	37	44	8	36	1030.62083	-0.00020
45	8	37	44	9	36	1030.62083	-0.00020
49	5	45	48	4	44	1031.39802	-0.00060
49	4	45	48	5	44	1031.39802	-0.00060
36	18	18	37	19	19	984.03671	0.00023

36	19	18	37	18	19	984.03671	0.00023
37	17	20	38	18	21	983.93852	0.00031
37	18	20	38	17	21	983.93852	0.00031
38	16	22	39	17	23	983.84825	-0.00014
38	17	22	39	16	23	983.84825	-0.00014
44	10	34	45	11	35	983.35949	0.00051
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36	19	18	35	18	17	1029.48266	-0.00009
36	18	18	35	19	17	1029.48266	-0.00009
37	18	20	36	17	19	1029.59076	0.00010
37	17	20	36	18	19	1029.59076	0.00010
38	16	22	37	17	21	1029.70757	-0.00024
38	17	22	37	16	21	1029.70757	-0.00024
44	10	34	43	11	33	1030.46844	-0.00009
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33	23	11	34	22	12	983.99709	-0.00031
33	22	11	34	23	12	983.99709	-0.00030
36	19	17	37	20	18	983.64295	0.00028
36	20	17	37	19	18	983.64295	0.00028
37	19	19	38	18	20	983.53896	0.00015
37	18	19	38	19	20	983.53896	0.00015
39	17	23	40	16	24	983.35644	0.00009
39	16	23	40	17	24	983.35644	0.00009
40	16	25	41	15	26	983.28131	0.00021
40	15	25	41	16	26	983.28131	0.00021
46	9	37	47	10	38	983.08903	0.00046
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49	7	43	50	6	44	982.99250	0.00053
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50	6	45	51	5	46	982.99569	-0.00015
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33	23	11	32	22	10	1029.53455	-0.00015
33	22	11	32	23	10	1029.53455	-0.00013
36	19	17	35	20	16	1029.77675	0.00008
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37	19	19	36	18	18	1029.87794	-0.00022
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39	17	23	38	16	22	1030.10909	-0.00010
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40	15	25	39	16	24	1030.24160	0.00009
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46	9	37	45	10	36	1031.30113	0.00000
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49	7	43	48	6	42	1031.83394	-0.00026
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50	5	45	49	6	44	1032.04771	-0.00078
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26	15	12	27	14	13	990.50321	0.00008
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28	12	16	29	13	17	990.30540	0.00072
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25	16	10	24	15	9	1024.16492	0.00002
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26	15	12	25	14	11	1024.25717	0.00020
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28	12	16	27	13	15	1024.47237	0.00018
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26	15	11	27	16	12	990.12547	0.00000
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27	15	13	26	14	12	1024.66479	-0.00051
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28	13	15	27	14	14	1024.77194	0.00060
28	14	15	27	13	14	1024.77194	0.00060
26	16	10	27	17	11	989.75012	0.00032
26	17	10	27	16	11	989.75012	0.00032
31	12	20	32	11	21	989.26216	-0.00024
31	11	20	32	12	21	989.26216	-0.00024
32	10	22	33	11	23	989.19037	0.00004
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26	16	10	25	17	9	1024.88653	0.00070
26	17	10	25	16	9	1024.88653	0.00070
31	12	20	30	11	19	1025.42893	0.00008
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32	10	22	31	11	21	1025.56533	-0.00021
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40	3	38	41	2	39	988.92902	0.00045
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40	2	38	39	3	37	1026.98210	-0.00020
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41	3	38	42	4	39	988.02659	0.00060
41	4	38	42	3	39	988.02659	0.00060
42	2	40	43	3	41	988.02659	0.00021

42	3	40	43	2	41	988.02659	0.00021
41	4	38	40	3	37	1027.65986	-0.00003
41	3	38	40	4	37	1027.65986	-0.00003
42	2	40	41	3	39	1027.87095	0.00000
42	3	40	41	2	39	1027.87095	0.00000
28	16	12	29	17	13	988.76714	0.00023
28	17	12	29	16	13	988.76714	0.00023
30	14	16	31	15	17	988.55788	-0.00007
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28	16	12	27	17	11	1025.68860	0.00013
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30	15	16	29	14	15	1025.89056	0.00004
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27	18	9	28	19	10	988.50812	0.00020
27	19	9	28	18	10	988.50812	0.00020
29	17	13	30	16	14	988.27505	-0.00035
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31	15	17	32	14	18	988.07187	0.00014
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41	4	37	42	5	38	987.58251	0.00038
41	5	37	42	4	38	987.58251	0.00038
42	4	39	43	3	40	987.57194	0.00044
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27	19	9	26	18	8	1025.92682	0.00006
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29	16	13	28	17	12	1026.08995	-0.00055
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30	15	15	29	16	14	1026.18998	0.00005
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31	14	17	30	15	16	1026.29896	-0.00002
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41	5	37	40	4	36	1027.90090	0.00014
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42	3	39	41	4	38	1028.10089	0.00029
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28	19	10	29	18	11	988.01255	0.00011
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29	18	12	30	17	13	987.89469	0.00009
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31	16	16	32	15	17	987.68101	0.00057
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32	14	18	33	15	19	987.58564	0.00019
32	15	18	33	14	19	987.58564	0.00019
33	14	20	34	13	21	987.49883	-0.00003
33	13	20	34	14	21	987.49883	-0.00003
41	5	36	42	6	37	987.15721	0.00046
41	6	36	42	5	37	987.15721	0.00046
42	4	38	43	5	39	987.12285	0.00040
42	5	38	43	4	39	987.12285	0.00040
45	2	44	46	1	45	987.14248	0.00031
45	1	44	46	2	45	987.14248	0.00031
46	0	46	47	1	47	987.16917	-0.00025
46	1	46	47	0	47	987.16917	-0.00025
28	19	10	27	18	9	1026.31961	-0.00001
28	18	10	27	19	9	1026.31961	0.00000
29	18	12	28	17	11	1026.40001	0.00006
29	17	12	28	18	11	1026.40001	0.00006
31	15	16	30	16	15	1026.59521	0.00000
31	16	16	30	15	15	1026.59521	0.00000
32	14	18	31	15	17	1026.70719	-0.00013
32	15	18	31	14	17	1026.70719	-0.00013
33	14	20	32	13	19	1026.82828	-0.00024
33	13	20	32	14	19	1026.82828	-0.00024
41	6	36	40	5	35	1028.16037	0.00024
41	5	36	40	6	35	1028.16037	0.00024
42	4	38	41	5	37	1028.33611	0.00000
42	5	38	41	4	37	1028.33611	0.00000
45	2	44	44	1	43	1028.98802	-0.00012
45	1	44	44	2	43	1028.98802	-0.00012
46	0	46	45	1	45	1029.22638	-0.00028
46	1	46	45	0	45	1029.22638	-0.00028
28	20	9	29	19	10	987.63721	0.00011
28	19	9	29	20	10	987.63721	0.00011
29	18	11	30	19	12	987.51635	0.00001
29	19	11	30	18	12	987.51635	0.00001
32	16	17	33	15	18	987.19173	0.00026
32	15	17	33	16	18	987.19173	0.00026
33	15	19	34	14	20	987.09933	0.00015
33	14	19	34	15	20	987.09933	0.00015
34	13	21	35	14	22	987.01565	0.00019
34	14	21	35	13	22	987.01565	0.00019
44	4	41	45	3	42	986.66402	0.00059
44	3	41	45	4	42	986.66402	0.00059
45	3	43	46	2	44	986.67407	0.00019

45	2	43	46	3	44	986.67407	0.00019
46	1	45	47	2	46	986.69476	0.00038
46	2	45	47	1	46	986.69476	0.00038
47	0	47	48	1	48	986.72488	0.00032
47	1	47	48	0	48	986.72488	0.00032
43	6	38	44	5	39	986.21862	0.00053
43	5	38	44	6	39	986.21862	0.00053
44	5	40	45	4	41	986.20722	0.00034
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45	3	42	46	4	43	986.21011	0.00047
45	4	42	46	3	43	986.21011	0.00047
47	1	46	48	2	47	986.24685	0.00022
47	2	46	48	1	47	986.24685	0.00022
43	6	38	42	5	37	1029.01111	0.00000
43	5	38	42	6	37	1029.01111	0.00000
44	4	40	43	5	39	1029.20984	-0.00042
44	5	40	43	4	39	1029.20984	-0.00042
45	4	42	44	3	41	1029.42344	-0.00019
45	3	42	44	4	41	1029.42344	-0.00019
47	2	46	46	1	45	1029.88201	-0.00060
47	1	46	46	2	45	1029.88201	-0.00060
31	18	13	32	19	14	986.52214	-0.00063
31	19	13	32	18	14	986.52214	-0.00063
33	16	17	34	17	18	986.30796	-0.00049
33	17	17	34	16	18	986.30796	-0.00049
35	15	21	36	14	22	986.12662	-0.00001
35	14	21	36	15	22	986.12662	-0.00001
32	17	15	31	18	14	1027.59711	0.00044
32	18	15	31	17	14	1027.59711	0.00044
33	17	17	32	16	16	1027.69902	-0.00013
33	16	17	32	17	16	1027.69902	-0.00013
35	15	21	34	14	20	1027.93146	-0.00031
35	14	21	34	15	20	1027.93146	-0.00031
44	6	39	45	5	40	985.75632	0.00034
44	5	39	45	6	40	985.75632	0.00034
46	3	43	47	4	44	985.75632	0.00038
46	4	43	47	3	44	985.75632	0.00038
48	2	47	49	1	48	985.79881	-0.00010
48	1	47	49	2	48	985.79881	-0.00010
43	6	37	42	7	36	1029.26121	0.00002
44	5	39	43	6	38	1029.44348	-0.00015
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46	3	43	45	4	42	1029.86432	-0.00034

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48	1	47	47	2	46	1030.32936	-0.00037
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28	20	9	27	19	8	1026.64377	0.00015
28	19	9	27	20	8	1026.64377	0.00035
29	19	11	28	18	10	1026.71387	-0.00003
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47	1	47	46	0	46	1029.67655	-0.00038
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38	3	36	37	2	35	1026.09481	0.00002
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39	3	37	38	2	36	1026.53829	0.00011
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38	2	36	39	3	37	989.83244	0.00010
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37	4	34	36	3	33	1025.87676	-0.00002
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38	3	35	39	4	36	989.42639	0.00041
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38	3	35	37	4	34	1026.37358	-0.00002
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37	3	35	38	2	36	990.29498	0.00030
37	2	35	38	3	36	990.29498	0.00030
37	3	35	36	2	34	1025.66147	0.00013
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21	0	21	20	1	20	1017.96445	-0.00023
21	1	21	20	0	20	1017.96445	-0.00023
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23	0	23	22	1	22	1018.86492	-0.00008
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17	0	17	18	1	18	1000.10794	-0.00009
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17	0	17	16	1	16	1016.16465	-0.00045
17	1	17	16	0	16	1016.16465	-0.00045
18	1	17	19	2	18	999.26568	-0.00025
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18	1	17	17	2	16	1016.90770	-0.00024
18	2	17	17	1	16	1016.90770	-0.00024
19	2	18	20	1	19	998.81530	-0.00010
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21	0	21	22	1	22	998.31752	-0.00010
21	1	21	22	0	22	998.31752	-0.00010
19	1	18	18	2	17	1017.35448	-0.00038
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21	2	20	22	1	21	997.91455	-0.00022
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21	1	20	20	2	19	1018.24893	-0.00003
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16	1	15	17	2	16	1000.16724	-0.00020
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15	2	13	16	3	14	1000.23565	0.00006
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15	2	13	14	3	12	1015.87263	0.00010
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17	2	15	16	3	14	1016.75995	-0.00008
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19	3	17	20	2	18	998.42109	-0.00004
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19	3	17	18	2	16	1017.64778	-0.00012
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13	4	9	14	5	10	1000.39813	-0.00001
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19	5	15	20	4	16	997.64132	0.00009
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12	5	7	13	6	8	1000.49248	0.00008
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12	6	7	11	5	6	1015.50073	0.00016
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16	1	16	15	0	15	1015.71522	-0.00023
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26	1	25	25	2	24	1020.48577	-0.00001
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21	2	19	20	3	18	1018.53613	0.00003
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9	1	9	8	0	8	1012.57070	-0.00011
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8	1	8	7	0	7	1012.12201	-0.00003
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9	5	5	8	4	4	1013.86645	-0.00007
9	4	5	8	5	4	1013.86645	0.00009
33	0	33	34	1	34	992.95835	0.00013



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34	0	34	35	1	35	992.51272	0.00026
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33	1	33	32	0	32	1023.36919	0.00016
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34	0	34	33	1	33	1023.81996	0.00022
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41	0	41	42	1	42	989.39477	0.00032
41	1	41	42	0	42	989.39477	0.00032
44	0	44	45	1	45	988.05947	0.00021
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41	0	41	40	1	40	1026.97466	0.00031
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42	1	41	43	2	42	988.48623	0.00039
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41	2	40	42	1	41	988.93435	0.00052
41	1	40	42	2	41	988.93435	0.00052
43	1	42	44	2	43	988.03832	0.00043
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42	1	41	41	2	40	1027.64606	0.00016
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43	2	42	42	1	41	1028.09355	0.00018
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44	0	44	43	1	43	1028.32608	0.00017
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44	2	43	45	1	44	987.59034	0.00033
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35	0	35	36	1	36	992.06701	0.00023
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35	0	35	34	1	34	1024.27052	0.00009
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38	0	38	37	1	37	1025.62285	0.00038
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37	1	36	38	2	37	990.72726	0.00073
37	2	36	38	1	37	990.72726	0.00073
37	2	36	36	1	35	1025.40824	0.00033
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27	19	9	27	18	10	1010.67748	0.00014
27	18	9	27	17	10	1010.67748	0.00014
29	20	9	29	19	10	1010.51008	0.00013
29	21	9	29	20	10	1010.51008	0.00012
32	24	9	32	23	10	1010.23318	-0.00024
32	23	9	32	22	10	1010.23318	-0.00014
11	1	10	11	2	9	1005.06005	-0.00012
11	2	10	11	3	9	1005.06005	-0.00012
14	4	10	14	5	9	1004.95451	0.00016
14	5	10	14	6	9	1004.95451	0.00016
15	5	10	15	6	9	1004.91405	0.00027
15	6	10	15	7	9	1004.91405	0.00027



20	10	10	20	11	9	1004.67216	0.00023
20	11	10	20	12	9	1004.67216	0.00023
21	12	10	21	13	9	1004.61578	-0.00011
21	11	10	21	12	9	1004.61578	-0.00011
25	15	10	25	16	9	1004.36694	0.00009
25	16	10	25	17	9	1004.36694	0.00009
29	20	10	29	21	9	1004.07925	-0.00007
29	19	10	29	20	9	1004.07925	-0.00010
31	21	10	31	22	9	1003.92207	0.00022
31	22	10	31	23	9	1003.92207	0.00031
13	3	10	13	2	11	1011.86962	0.00021
13	4	10	13	3	11	1011.86962	0.00021
14	5	10	14	4	11	1011.83027	-0.00007
14	4	10	14	3	11	1011.83027	-0.00007
16	7	10	16	6	11	1011.74367	0.00006
16	6	10	16	5	11	1011.74367	0.00006
20	11	10	20	10	11	1011.53514	-0.00014
20	10	10	20	9	11	1011.53514	-0.00014
22	13	10	22	12	11	1011.41350	0.00012
22	12	10	22	11	11	1011.41350	0.00012
25	16	10	25	15	11	1011.20781	-0.00002
25	15	10	25	14	11	1011.20781	-0.00002
26	17	10	26	16	11	1011.13304	-0.00012
26	16	10	26	15	11	1011.13304	-0.00012
27	18	10	27	17	11	1011.05544	0.00009
27	17	10	27	16	11	1011.05544	0.00009
28	19	10	28	18	11	1010.97413	-0.00026
28	18	10	28	17	11	1010.97413	-0.00026
29	20	10	29	19	11	1010.89039	0.00015
29	19	10	29	18	11	1010.89039	0.00016
30	21	10	30	20	11	1010.80289	0.00004
30	20	10	30	19	11	1010.80289	0.00005
33	24	10	33	23	11	1010.52040	-0.00051
33	23	10	33	22	11	1010.52040	-0.00048
15	5	11	15	6	10	1004.59961	0.00020
15	4	11	15	5	10	1004.59961	0.00020
17	7	11	17	8	10	1004.51010	0.00013
17	6	11	17	7	10	1004.51010	0.00013
20	9	11	20	10	10	1004.35617	0.00010
20	10	11	20	11	10	1004.35617	0.00010
22	11	11	22	12	10	1004.24057	0.00013
22	12	11	22	13	10	1004.24057	0.00013
23	13	11	23	14	10	1004.17861	-0.00015

23	12	11	23	13	10	1004.17861	-0.00015
24	13	11	24	14	10	1004.11460	0.00007
24	14	11	24	15	10	1004.11460	0.00007
25	14	11	25	15	10	1004.04761	-0.00015
25	15	11	25	16	10	1004.04761	-0.00015
27	17	11	27	18	10	1003.90654	-0.00015
27	16	11	27	17	10	1003.90654	-0.00015
34	23	11	34	24	10	1003.33565	-0.00037
34	24	11	34	25	10	1003.33565	-0.00035
13	3	11	13	2	12	1012.24403	-0.00002
13	2	11	13	1	12	1012.24403	-0.00002
16	6	11	16	5	12	1012.11833	-0.00020
16	5	11	16	4	12	1012.11833	-0.00020
19	9	11	19	8	12	1011.96728	0.00010
19	8	11	19	7	12	1011.96728	0.00010
21	10	11	21	9	12	1011.85181	0.00007
21	11	11	21	10	12	1011.85181	0.00007
23	13	11	23	12	12	1011.72472	0.00021
23	12	11	23	11	12	1011.72472	0.00021
26	15	11	26	14	12	1011.51120	0.00001
26	16	11	26	15	12	1011.51120	0.00001
27	16	11	27	15	12	1011.43392	-0.00009
27	17	11	27	16	12	1011.43392	-0.00009
28	17	11	28	16	12	1011.35366	-0.00008
28	18	11	28	17	12	1011.35366	-0.00008
29	19	11	29	18	12	1011.27027	-0.00009
29	18	11	29	17	12	1011.27027	-0.00009
31	20	11	31	19	12	1011.09397	-0.00021
31	21	11	31	20	12	1011.09397	-0.00021
34	23	11	34	22	12	1010.80534	-0.00048
34	24	11	34	23	12	1010.80534	-0.00050
35	24	11	35	23	12	1010.70281	-0.00033
35	25	11	35	24	12	1010.70281	-0.00035
37	26	11	37	25	12	1010.48726	-0.00044
37	27	11	37	26	12	1010.48726	-0.00049
38	28	11	38	27	12	1010.37483	-0.00010
38	27	11	38	26	12	1010.37483	-0.00002
16	5	12	16	6	11	1004.24483	0.00019
16	4	12	16	5	11	1004.24483	0.00019
19	8	12	19	9	11	1004.09808	0.00007
19	7	12	19	8	11	1004.09808	0.00007
20	9	12	20	10	11	1004.04384	0.00003
20	8	12	20	9	11	1004.04384	0.00003

21	9	12	21	10	11	1003.98706	0.00010
21	10	12	21	11	11	1003.98706	0.00010
23	12	12	23	13	11	1003.86516	-0.00020
23	11	12	23	12	11	1003.86516	-0.00020
24	12	12	24	13	11	1003.80054	-0.00008
24	13	12	24	14	11	1003.80054	-0.00008
27	15	12	27	16	11	1003.59121	0.00043
27	16	12	27	17	11	1003.59121	0.00043
28	17	12	28	16	13	1011.73432	0.00022
28	16	12	28	15	13	1011.73432	0.00022
22	8	15	22	9	14	1003.00928	-0.00010
22	7	15	22	8	14	1003.00928	-0.00010
23	8	15	23	9	14	1002.94672	0.00010
23	9	15	23	10	14	1002.94672	0.00010
27	13	15	27	14	14	1002.66854	0.00014
27	12	15	27	13	14	1002.66854	0.00014
17	2	15	17	1	16	1013.59851	-0.00015
17	3	15	17	2	16	1013.59851	-0.00015
20	3	17	20	4	16	1002.53077	0.00006
16	0	16	16	1	15	1003.02964	0.00019
16	1	16	16	2	15	1003.02964	0.00019
17	1	16	17	2	15	1002.98304	0.00004
17	2	16	17	3	15	1002.98304	0.00004
30	14	16	30	15	15	1002.13014	0.00012
30	15	16	30	16	15	1002.13014	0.00012
22	6	16	22	5	17	1013.70846	-0.00003
22	7	16	22	6	17	1013.70846	-0.00003
25	9	16	25	8	17	1013.50649	0.00003
25	10	16	25	9	17	1013.50649	0.00003
28	12	16	28	11	17	1013.27840	0.00026
28	13	16	28	12	17	1013.27840	0.00026
20	4	17	20	5	16	1002.53077	0.00006
28	11	17	28	12	16	1001.99399	-0.00009
28	12	17	28	13	16	1001.99399	-0.00009
30	13	17	30	14	16	1001.83253	0.00021
30	14	17	30	15	16	1001.83253	0.00021
19	2	17	19	1	18	1014.27663	0.00015
19	3	17	19	2	18	1014.27663	0.00015
24	8	17	24	7	18	1013.96893	0.00008
24	7	17	24	6	18	1013.96893	0.00008
25	9	17	25	8	18	1013.89890	0.00024
25	8	17	25	7	18	1013.89890	0.00024
26	9	17	26	8	18	1013.82575	0.00019

26	10	17	26	9	18	1013.82575	0.00019
29	13	17	29	12	18	1013.58853	-0.00011
29	12	17	29	11	18	1013.58853	-0.00011
21	3	18	21	4	17	1002.17949	-0.00019
21	4	18	21	5	17	1002.17949	-0.00019
26	8	18	26	9	17	1001.85084	-0.00004
26	9	18	26	10	17	1001.85084	-0.00004
29	11	18	29	12	17	1001.62021	-0.00009
29	12	18	29	13	17	1001.62021	-0.00009
30	12	18	30	13	17	1001.53779	-0.00008
30	13	18	30	14	17	1001.53779	-0.00008
33	15	18	33	16	17	1001.27363	-0.00017
33	16	18	33	17	17	1001.27363	-0.00017
19	1	18	19	0	19	1014.67160	0.00034
19	2	18	19	1	19	1014.67160	0.00034
20	3	18	20	2	19	1014.61542	-0.00008
20	2	18	20	1	19	1014.61542	-0.00008
23	6	18	23	5	19	1014.43115	0.00009
23	5	18	23	4	19	1014.43115	0.00009
25	7	18	25	6	19	1014.29376	0.00008
25	8	18	25	7	19	1014.29376	0.00008
27	9	18	27	8	19	1014.14489	0.00025
27	10	18	27	9	19	1014.14489	0.00025
29	12	18	29	11	19	1013.98380	-0.00006
29	11	18	29	10	19	1013.98380	-0.00006
31	14	18	31	13	19	1013.81135	0.00013
31	13	18	31	12	19	1013.81135	0.00013
37	19	18	37	18	19	1013.22097	0.00004
37	20	18	37	19	19	1013.22097	0.00004
39	21	18	39	20	19	1013.00017	0.00055
39	22	18	39	21	19	1013.00017	0.00055
40	22	18	40	21	19	1012.88440	0.00012
40	23	18	40	22	19	1012.88440	0.00012
21	2	19	21	3	18	1001.88907	0.00002
21	3	19	21	4	18	1001.88907	0.00002
22	4	19	22	5	18	1001.82889	0.00009
22	3	19	22	4	18	1001.82889	0.00009
23	5	19	23	6	18	1001.76610	0.00031
23	4	19	23	5	18	1001.76610	0.00031
25	6	19	25	7	18	1001.63145	0.00003
25	7	19	25	8	18	1001.63145	0.00003
26	8	19	26	9	18	1001.55984	-0.00022
26	7	19	26	8	18	1001.55984	-0.00022

27	8	19	27	9	18	1001.48579	-0.00012
27	9	19	27	10	18	1001.48579	-0.00012
28	9	19	28	10	18	1001.40893	-0.00003
28	10	19	28	11	18	1001.40893	-0.00003
29	11	19	29	12	18	1001.32906	-0.00014
29	10	19	29	11	18	1001.32906	-0.00014
30	11	19	30	12	18	1001.24650	-0.00014
30	12	19	30	13	18	1001.24650	-0.00014
33	15	19	33	16	18	1000.98196	-0.00008
33	14	19	33	15	18	1000.98196	-0.00008
22	3	19	22	2	20	1014.89307	-0.00009
22	4	19	22	3	20	1014.89307	-0.00009
25	6	19	25	5	20	1014.69137	-0.00017
25	7	19	25	6	20	1014.69137	-0.00017
26	8	19	26	7	20	1014.61854	0.00002
26	7	19	26	6	20	1014.61854	0.00002
31	13	19	31	12	20	1014.20954	0.00021
31	12	19	31	11	20	1014.20954	0.00021
32	13	19	32	12	20	1014.11844	-0.00013
32	14	19	32	13	20	1014.11844	-0.00013
33	15	19	33	14	20	1014.02457	-0.00023
33	14	19	33	13	20	1014.02457	-0.00023
34	15	19	34	14	20	1013.92830	0.00029
34	16	19	34	15	20	1013.92830	0.00029
27	7	20	27	8	19	1001.19776	-0.00033
27	8	20	27	9	19	1001.19776	-0.00033
31	12	20	31	13	19	1000.87307	-0.00001
31	11	20	31	12	19	1000.87307	-0.00001
24	4	20	24	3	21	1015.16236	0.00003
24	5	20	24	4	21	1015.16236	0.00003
26	6	20	26	5	21	1015.01910	-0.00019
26	7	20	26	6	21	1015.01910	-0.00019
27	7	20	27	6	21	1014.94318	-0.00021
27	8	20	27	7	21	1014.94318	-0.00021
31	12	20	31	11	21	1014.61006	-0.00021
31	11	20	31	10	21	1014.61006	-0.00021
33	14	20	33	13	21	1014.42550	-0.00030
33	13	20	33	12	21	1014.42550	-0.00030
34	14	20	34	13	21	1014.32914	0.00011
34	15	20	34	14	21	1014.32914	0.00011

Table S4. Assigned transitions (cm<sup>-1</sup>) for the  $\nu_6$  band of TMO at 1033 cm<sup>-1</sup>.

J' Ka' Kc'	J'' Ka'' Kc''	Frequency	Obs-Calc
13 7 6	12 7 5	1041.64146	-0.00015
13 8 6	12 8 5	1041.64146	-0.00003
14 8 6	13 8 5	1042.40341	-0.00035
14 9 6	13 9 5	1042.40341	-0.00008
15 7 8	14 7 7	1042.49121	-0.00009
15 8 8	14 8 7	1042.49121	-0.00009
15 9 6	14 9 5	1043.16395	-0.00014
15 10 6	14 10 5	1043.16395	0.00043
16 9 8	15 9 7	1043.24794	-0.00018
16 8 8	15 8 7	1043.24794	-0.00018
17 7 10	16 7 9	1043.33814	-0.00004
17 8 10	16 8 9	1043.33814	-0.00004
16 9 7	15 9 6	1043.58309	-0.00029
16 10 7	15 10 6	1043.58309	-0.00026
17 8 9	16 8 8	1043.66944	-0.00009
17 9 9	16 9 8	1043.66944	-0.00009
18 8 11	17 8 10	1043.76036	0.00001
18 7 11	17 7 10	1043.76036	0.00001
17 9 8	16 9 7	1044.00255	-0.00027
17 10 8	16 10 7	1044.00255	-0.00026
18 9 10	17 9 9	1044.09013	-0.00004
18 8 10	17 8 9	1044.09013	-0.00004
20 7 14	19 7 13	1044.27681	0.00012
20 6 14	19 6 13	1044.27681	0.00012
17 10 7	16 10 6	1044.33874	0.00003
17 11 7	16 11 6	1044.33874	0.00011
18 10 9	17 10 8	1044.42169	-0.00005
18 9 9	17 9 8	1044.42169	-0.00005
19 8 11	18 8 10	1044.50986	-0.00012
19 9 11	18 9 10	1044.50986	-0.00012
20 8 13	19 8 12	1044.60245	0.00039
20 7 13	19 7 12	1044.60245	0.00039
21 6 15	20 6 14	1044.69760	-0.00003
21 7 15	20 7 14	1044.69760	-0.00003
19 9 10	18 9 9	1044.84000	0.00004
19 10 10	18 10 9	1044.84000	0.00004
20 9 12	19 9 11	1044.92892	-0.00002
20 8 12	19 8 11	1044.92892	-0.00002
21 7 14	20 7 13	1045.02157	-0.00001
21 8 14	20 8 13	1045.02157	-0.00001

17	11	6	16	11	5	1044.67948	-0.00041
17	12	6	16	12	5	1044.67769	-0.00010
23	6	18	22	6	17	1045.21752	0.00036
23	5	18	22	5	17	1045.21752	0.00036
18	11	7	17	11	6	1045.09181	-0.00031
18	12	7	17	12	6	1045.09181	-0.00014
19	10	9	18	10	8	1045.17193	0.00013
19	11	9	18	11	8	1045.17193	0.00013
20	10	11	19	10	10	1045.25720	-0.00019
20	9	11	19	9	10	1045.25720	-0.00019
21	8	13	20	8	12	1045.34694	-0.00008
21	9	13	20	9	12	1045.34694	-0.00008
22	8	15	21	8	14	1045.44029	0.00007
22	7	15	21	7	14	1045.44029	0.00007
18	12	6	17	12	5	1045.43539	-0.00042
18	13	6	17	13	5	1045.43171	-0.00034
19	11	8	18	11	7	1045.50590	-0.00006
19	12	8	18	12	7	1045.50590	-0.00005
20	11	10	19	11	9	1045.58748	-0.00009
20	10	10	19	10	9	1045.58748	-0.00009
23	7	16	22	7	15	1045.85801	0.00004
23	8	16	22	8	15	1045.85801	0.00004
24	7	18	23	7	17	1045.95542	0.00032
24	6	18	23	6	17	1045.95542	0.00032
25	5	20	24	5	19	1046.05579	0.00019
25	6	20	24	6	19	1046.05579	0.00019
18	13	5	17	13	4	1045.81239	-0.00046
19	12	7	18	12	6	1045.84325	-0.00045
19	13	7	18	13	6	1045.84325	-0.00011
20	12	9	19	12	8	1045.91962	-0.00012
20	11	9	19	11	8	1045.91962	-0.00012
21	10	11	20	10	10	1046.00264	0.00003
21	11	11	20	11	10	1046.00264	0.00003
22	10	13	21	10	12	1046.08964	-0.00012
22	9	13	21	9	12	1046.08964	-0.00012
23	8	15	22	8	14	1046.18068	0.00012
23	9	15	22	9	14	1046.18068	0.00012
24	8	17	23	8	16	1046.27469	-0.00013
24	7	17	23	7	16	1046.27469	-0.00013
25	6	19	24	6	18	1046.37259	0.00011
25	7	19	24	7	18	1046.37259	0.00011
26	6	21	25	6	20	1046.47370	0.00021
26	5	21	25	5	20	1046.47370	0.00021

20	13	8	19	13	7	1046.25428	-0.00020
20	12	8	19	12	7	1046.25428	-0.00022
21	11	10	20	11	9	1046.33300	-0.00002
21	12	10	20	12	9	1046.33300	-0.00002
22	11	12	21	11	11	1046.41689	0.00004
22	10	12	21	10	11	1046.41689	0.00004
23	9	14	22	9	13	1046.50462	-0.00003
23	10	14	22	10	13	1046.50462	-0.00003
24	9	16	23	9	15	1046.59605	0.00004
24	8	16	23	8	15	1046.59605	0.00004
25	7	18	24	7	17	1046.69095	0.00015
25	8	18	24	8	17	1046.69095	0.00015
26	7	20	25	7	19	1046.78905	0.00007
26	6	20	25	6	19	1046.78905	0.00007
27	5	22	26	5	21	1046.89074	0.00023
27	6	22	26	6	21	1046.89074	0.00023
28	5	24	27	5	23	1046.99549	0.00006
28	4	24	27	4	23	1046.99549	0.00006
29	3	26	28	3	25	1047.10408	0.00032
29	4	26	28	4	25	1047.10408	0.00032
21	12	9	20	12	8	1046.66578	0.00019
21	13	9	20	13	8	1046.66578	0.00019
22	12	11	21	12	10	1046.74555	-0.00009
22	11	11	21	11	10	1046.74555	-0.00009
23	10	13	22	10	12	1046.83026	-0.00001
23	11	13	22	11	12	1046.83026	-0.00001
24	10	15	23	10	14	1046.91847	-0.00020
24	9	15	23	9	14	1046.91847	-0.00020
26	8	19	25	8	18	1047.10574	-0.00016
26	7	19	25	7	18	1047.10574	-0.00016
27	6	21	26	6	20	1047.20486	0.00027
27	7	21	26	7	20	1047.20486	0.00027
21	13	8	20	13	7	1047.00084	-0.00025
21	14	8	20	14	7	1047.00084	-0.00020
22	13	10	21	13	9	1047.07636	0.00002
22	12	10	21	12	9	1047.07636	0.00002
23	11	12	22	11	11	1047.15759	0.00008
23	12	12	22	12	11	1047.15759	0.00008
24	11	14	23	11	13	1047.24281	-0.00004
24	10	14	23	10	13	1047.24281	-0.00004
26	9	18	25	9	17	1047.42435	0.00007
26	8	18	25	8	17	1047.42435	0.00007
28	7	22	27	7	21	1047.61953	0.00017



28	6	22	27	6	21	1047.61953	0.00017
29	5	24	28	5	23	1047.72203	0.00006
29	6	24	28	6	23	1047.72203	0.00006
30	5	26	29	5	25	1047.82816	0.00018
30	4	26	29	4	25	1047.82816	0.00018
31	3	28	30	3	27	1047.93758	0.00018
31	4	28	30	4	27	1047.93758	0.00018
32	3	30	31	3	29	1048.05045	0.00017
32	2	30	31	2	29	1048.05045	0.00017
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33	2	32	32	2	31	1048.16683	0.00021
22	14	9	21	14	8	1047.40921	-0.00018
22	13	9	21	13	8	1047.40921	-0.00018
23	12	11	22	12	10	1047.48652	0.00000
23	13	11	22	13	10	1047.48652	0.00000
24	12	13	23	12	12	1047.56867	0.00008
24	11	13	23	11	12	1047.56867	0.00008
25	10	15	24	10	14	1047.65463	0.00006
25	11	15	24	11	14	1047.65463	0.00006
27	8	19	26	8	18	1047.83726	0.00014
27	9	19	26	9	18	1047.83726	0.00014
28	8	21	27	8	20	1047.93332	-0.00017
28	7	21	27	7	20	1047.93332	-0.00017
30	6	25	29	6	24	1048.13640	-0.00003
30	5	25	29	5	24	1048.13640	-0.00003
31	4	27	30	4	26	1048.24314	0.00013
31	5	27	30	5	26	1048.24314	0.00013
32	4	29	31	4	28	1048.35313	0.00011
32	3	29	31	3	28	1048.35313	0.00011
33	2	31	32	2	30	1048.46668	0.00018
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34	2	33	33	2	32	1048.58363	0.00013
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35	0	35	34	0	34	1048.70427	0.00020
35	1	35	34	1	34	1048.70427	0.00020
23	13	10	22	13	9	1047.81752	-0.00004
23	14	10	22	14	9	1047.81752	-0.00004
24	13	12	23	13	11	1047.89581	-0.00018
24	12	12	23	12	11	1047.89581	-0.00018
25	11	14	24	11	13	1047.97892	0.00008
25	12	14	24	12	13	1047.97892	0.00008
26	11	16	25	11	15	1048.06535	-0.00009
26	10	16	25	10	15	1048.06535	-0.00009

27	9	18	26	9	17	1048.15564	0.00009
27	10	18	26	10	17	1048.15564	0.00009
28	9	20	27	9	19	1048.24939	0.00029
28	8	20	27	8	19	1048.24939	0.00029
30	7	24	29	7	23	1048.44642	0.00007
30	6	24	29	6	23	1048.44642	0.00007
31	5	26	30	5	25	1048.55013	0.00005
31	6	26	30	6	25	1048.55013	0.00005
32	5	28	31	5	27	1048.65731	0.00006
32	4	28	31	4	27	1048.65731	0.00006
33	3	30	32	3	29	1048.76799	0.00009
33	4	30	32	4	29	1048.76799	0.00009
34	3	32	33	3	31	1048.88203	-0.00003
34	2	32	33	2	31	1048.88203	-0.00003
35	1	34	34	1	33	1048.99957	-0.00035
35	2	34	34	2	33	1048.99957	-0.00035
36	1	36	35	1	35	1049.12276	0.00014
36	0	36	35	0	35	1049.12276	0.00014
23	14	9	22	14	8	1048.15103	-0.00015
23	15	9	22	15	8	1048.15103	-0.00014
24	14	11	23	14	10	1048.22545	0.00020
24	13	11	23	13	10	1048.22545	0.00020
25	12	13	24	12	12	1048.30537	0.00066
25	13	13	24	13	12	1048.30537	0.00066
26	12	15	25	12	14	1048.38842	0.00016
26	11	15	25	11	14	1048.38842	0.00016
27	10	17	26	10	16	1048.47559	0.00014
27	11	17	26	11	16	1048.47559	0.00014
28	10	19	27	10	18	1048.56641	0.00028
28	9	19	27	9	18	1048.56641	0.00028
29	8	21	28	8	20	1048.66026	0.00005
29	9	21	28	9	20	1048.66026	0.00005
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32	6	27	31	6	26	1048.96278	-0.00017
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34	4	31	33	4	30	1049.18202	-0.00009
34	3	31	33	3	30	1049.18202	-0.00009
35	2	33	34	2	32	1049.29718	0.00004
35	3	33	34	3	32	1049.29718	0.00004
36	2	35	35	2	34	1049.41683	0.00032

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23	15	8	22	15	7	1048.48840	-0.00022
23	16	8	22	16	7	1048.48840	-0.00003
24	15	10	23	15	9	1048.55669	0.00000
24	14	10	23	14	9	1048.55669	0.00000
25	13	12	24	13	11	1048.63227	-0.00004
25	14	12	24	14	11	1048.63227	-0.00004
26	13	14	25	13	13	1048.71294	0.00030
26	12	14	25	12	13	1048.71294	0.00030
27	11	16	26	11	15	1048.79733	0.00049
27	12	16	26	12	15	1048.79733	0.00049
28	11	18	27	11	17	1048.88463	0.00001
28	10	18	27	10	17	1048.88463	0.00001
29	9	20	28	9	19	1048.97597	0.00009
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33	5	28	32	5	27	1049.37524	0.00015
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34	5	30	33	5	29	1049.48362	0.00001
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35	3	32	34	3	31	1049.59595	0.00014
35	4	32	34	4	31	1049.59595	0.00014
36	3	34	35	3	33	1049.71150	-0.00070
36	2	34	35	2	33	1049.71150	-0.00070
37	1	36	36	1	35	1049.83751	0.00021
37	2	36	36	2	35	1049.83751	0.00021
38	1	38	37	1	37	1049.94479	0.00002
38	0	38	37	0	37	1049.94479	0.00002
24	15	9	23	15	8	1048.89092	-0.00006
24	16	9	23	16	8	1048.89092	-0.00005
26	14	13	25	14	12	1049.03869	0.00002
26	13	13	25	13	12	1049.03869	0.00002
27	12	15	26	12	14	1049.11984	0.00008
27	13	15	26	13	14	1049.11984	0.00008
28	12	17	27	12	16	1049.20461	0.00002
28	11	17	27	11	16	1049.20461	0.00002
29	10	19	28	10	18	1049.29338	0.00042
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30	10	21	29	10	20	1049.38490	0.00014
30	9	21	29	9	20	1049.38490	0.00014
32	8	25	31	8	24	1049.57873	0.00003
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34	6	29	33	6	28	1049.78661	0.00006
34	5	29	33	5	28	1049.78661	0.00006
36	4	33	35	4	32	1050.00941	0.00011
36	3	33	35	3	32	1050.00941	0.00011
39	0	39	38	0	38	1050.35940	-0.00005
39	1	39	38	1	38	1050.35940	-0.00005
23	18	6	22	18	5	1049.17095	0.00001
23	17	6	22	17	5	1049.21181	-0.00002
24	16	8	23	16	7	1049.22930	-0.00041
24	17	8	23	17	7	1049.22930	-0.00007
25	16	10	24	16	9	1049.29338	-0.00039
25	15	10	24	15	9	1049.29338	-0.00039
26	15	12	25	15	11	1049.36646	-0.00004
26	14	12	25	14	11	1049.36646	-0.00004
27	13	14	26	13	13	1049.44440	0.00013
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28	13	16	27	13	15	1049.52611	0.00005
28	12	16	27	12	15	1049.52611	0.00005
29	11	18	28	11	17	1049.61155	0.00004
29	12	18	28	12	17	1049.61155	0.00004
30	11	20	29	11	19	1049.70039	-0.00011
30	10	20	29	10	19	1049.70039	-0.00011
31	9	22	30	9	21	1049.79317	0.00031
31	10	22	30	10	21	1049.79317	0.00031
32	9	24	31	9	23	1049.88869	-0.00003
32	8	24	31	8	23	1049.88869	-0.00003
34	7	28	33	7	27	1050.09103	0.00011
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35	5	30	34	5	29	1050.19755	0.00011
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38	3	36	37	3	35	1050.55323	0.00008
38	2	36	37	2	35	1050.55323	0.00008
39	1	38	38	1	37	1050.63990	-0.00004
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40	1	40	39	1	39	1050.77247	0.00000
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25	17	9	24	17	8	1049.62893	0.00010
25	16	9	24	16	8	1049.62893	0.00007
27	14	13	26	14	12	1049.77051	0.00004
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28	14	15	27	14	14	1049.84922	0.00013
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29	12	17	28	12	16	1049.93121	-0.00034

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31	10	21	30	10	20	1050.10730	0.00015
31	11	21	30	11	20	1050.10730	0.00015
33	8	25	32	8	24	1050.29652	-0.00017
33	9	25	32	9	24	1050.29652	-0.00017
35	6	29	34	6	28	1050.50037	-0.00003
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37	4	33	36	4	32	1050.72049	0.00048
37	5	33	36	5	32	1050.72049	0.00048
38	4	35	37	4	34	1050.83982	0.00002
38	3	35	37	3	34	1050.83982	0.00002
39	2	37	38	2	36	1050.85815	-0.00030
39	3	37	38	3	36	1050.85815	-0.00030
40	2	39	39	2	38	1051.05506	0.00012
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41	0	41	40	0	40	1051.18434	-0.00006
41	1	41	40	1	40	1051.18434	-0.00006
25	17	8	24	17	7	1049.96893	-0.00020
25	18	8	24	18	7	1049.96893	0.00041
27	15	12	26	15	11	1050.09865	0.00009
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28	15	14	27	15	13	1050.17367	-0.00007
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29	13	16	28	13	15	1050.25320	0.00009
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30	13	18	29	13	17	1050.33633	0.00009
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34	9	26	33	9	25	1050.70402	0.00006
34	8	26	33	8	25	1050.70402	0.00006
35	7	28	34	7	27	1050.80478	-0.00001
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36	7	30	35	7	29	1050.90937	-0.00006
36	6	30	35	6	29	1050.90937	-0.00006
37	5	32	36	5	31	1051.01839	0.00003
37	6	32	36	6	31	1051.01839	0.00003
39	3	36	38	3	35	1051.26976	0.00002
39	4	36	38	4	35	1051.26976	0.00002
41	1	40	40	1	39	1051.46625	-0.00033
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42	1	42	41	1	41	1051.59522	-0.00014
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26	18	9	25	18	8	1050.36469	-0.00011
26	17	9	25	17	8	1050.36469	-0.00017

27	16	11	26	16	10	1050.42884	-0.00001
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32	12	21	31	12	20	1050.82798	0.00058
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35	8	27	34	8	26	1051.11061	0.00000
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36	8	29	35	8	28	1051.21241	0.00005
36	7	29	35	7	28	1051.21241	0.00005
37	6	31	36	6	30	1051.31816	-0.00008
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38	6	33	37	6	32	1051.42959	0.00027
38	5	33	37	5	32	1051.42959	0.00027
39	4	35	38	4	34	1051.55062	-0.00002
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42	2	41	41	2	40	1051.87660	-0.00002
42	1	41	41	1	40	1051.87660	-0.00002
43	0	43	42	0	42	1052.00523	-0.00018
43	1	43	42	1	42	1052.00523	-0.00018
27	17	10	26	17	9	1050.76195	0.00002
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28	17	12	27	17	11	1050.82798	-0.00055
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29	15	14	28	15	13	1050.90089	-0.00018
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31	13	18	30	13	17	1051.05874	-0.00007
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32	13	20	31	13	19	1051.14342	0.00014
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35	9	26	34	9	25	1051.41781	-0.00004

35	10	26	34	10	25	1051.41781	-0.00004
36	9	28	35	9	27	1051.51678	0.00006
36	8	28	35	8	27	1051.51678	0.00006
37	7	30	36	7	29	1051.61952	-0.00009
37	8	30	36	8	29	1051.61952	-0.00009
38	7	32	37	7	31	1051.72678	-0.00047
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40	4	36	39	4	35	1051.98657	-0.00009
41	3	38	40	3	37	1052.01108	-0.00024
41	4	38	40	4	37	1052.01108	-0.00024
42	3	40	41	3	39	1052.15653	-0.00021
42	2	40	41	2	39	1052.15653	-0.00021
43	1	42	42	1	41	1052.28538	-0.00011
43	2	42	42	2	41	1052.28538	-0.00011
44	1	44	43	1	43	1052.41426	-0.00032
44	0	44	43	0	43	1052.41426	-0.00032
27	19	9	26	19	8	1051.09905	0.00012
27	18	9	26	18	8	1051.09905	0.00003
29	16	13	28	16	12	1051.22819	0.00048
29	17	13	28	17	12	1051.22819	0.00048
30	16	15	29	16	14	1051.30152	0.00024
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31	14	17	30	14	16	1051.37909	0.00009
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36	10	27	35	10	26	1051.82245	-0.00006
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37	8	29	36	8	28	1051.92230	-0.00015
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38	8	31	37	8	30	1052.02679	-0.00006
38	7	31	37	7	30	1052.02679	-0.00006
39	6	33	38	6	32	1052.13756	0.00029
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42	3	39	41	3	38	1052.43181	-0.00023
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44	2	43	43	2	42	1052.69307	-0.00026
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29	17	12	28	17	11	1051.55649	0.00006
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33	13	20	32	13	19	1051.86172	0.00023
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35	11	24	34	11	23	1052.03631	-0.00030
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36	11	26	35	11	25	1052.12961	-0.00012
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37	9	28	36	9	27	1052.22664	-0.00009
37	10	28	36	10	27	1052.22664	-0.00009
38	9	30	37	9	29	1052.32784	-0.00017
38	8	30	37	8	29	1052.32784	-0.00017
39	7	32	38	7	31	1052.43455	-0.00004
39	8	32	38	8	31	1052.43455	-0.00004
41	5	36	40	5	35	1052.70347	-0.00008
41	6	36	40	6	35	1052.70347	-0.00008
42	5	38	41	5	37	1052.68671	-0.00027
42	4	38	41	4	37	1052.68671	-0.00027
43	3	40	42	3	39	1052.84292	0.00009
43	4	40	42	4	39	1052.84292	0.00009
44	3	42	43	3	41	1052.97177	-0.00042
44	2	42	43	2	41	1052.97177	-0.00042
45	1	44	44	1	43	1053.09993	-0.00029
45	2	44	44	2	43	1053.09993	-0.00029
46	1	46	45	1	45	1053.22998	-0.00031
46	0	46	45	0	45	1053.22998	-0.00031
28	20	9	27	20	8	1051.83137	0.00012
28	19	9	27	19	8	1051.83137	-0.00006
29	18	11	28	18	10	1051.88781	0.00012
29	19	11	28	19	10	1051.88781	0.00012
30	18	13	29	18	12	1051.95354	0.00036



30	17	13	29	17	12	1051.95354	0.00036
31	16	15	30	16	14	1052.02434	0.00015
31	17	15	30	17	14	1052.02434	0.00015
32	16	17	31	16	16	1052.09955	0.00003
32	15	17	31	15	16	1052.09955	0.00003
33	14	19	32	14	18	1052.17872	-0.00002
33	15	19	32	15	18	1052.17872	-0.00002
36	12	25	35	12	24	1052.43817	-0.00021
36	11	25	35	11	24	1052.43817	-0.00021
37	10	27	36	10	26	1052.53238	-0.00008
37	11	27	36	11	26	1052.53238	-0.00008
38	10	29	37	10	28	1052.63059	-0.00010
38	9	29	37	9	28	1052.63059	-0.00010
39	8	31	38	8	30	1052.73362	-0.00016
39	9	31	38	9	30	1052.73362	-0.00016
43	4	39	42	4	38	1053.11305	-0.00019
43	5	39	42	5	38	1053.11305	-0.00019
44	4	41	43	4	40	1053.24990	-0.00021
44	3	41	43	3	40	1053.24990	-0.00021
45	2	43	44	2	42	1053.37763	-0.00033
45	3	43	44	3	42	1053.37763	-0.00033
46	2	45	45	2	44	1053.50609	-0.00010
46	1	45	45	1	44	1053.50609	-0.00010
47	0	47	46	0	46	1053.63649	-0.00036
47	1	47	46	1	46	1053.63649	-0.00036
29	19	10	28	19	9	1052.22238	0.00006
29	20	10	28	20	9	1052.22238	0.00007
30	19	12	29	19	11	1052.28225	-0.00003
30	18	12	29	18	11	1052.28225	-0.00003
32	17	16	31	17	15	1052.42127	-0.00014
32	16	16	31	16	15	1052.42127	-0.00014
33	15	18	32	15	17	1052.49764	0.00008
33	16	18	32	16	17	1052.49764	0.00008
34	15	20	33	15	19	1052.57790	0.00030
34	14	20	33	14	19	1052.57790	0.00030
36	13	24	35	13	23	1052.74826	-0.00021
36	12	24	35	12	23	1052.74826	-0.00021
37	11	26	36	11	25	1052.83960	-0.00004
37	12	26	36	12	25	1052.83960	-0.00004
38	11	28	37	11	27	1052.93466	-0.00020
38	10	28	37	10	27	1052.93466	-0.00020
39	9	30	38	9	29	1053.03458	-0.00008
39	10	30	38	10	29	1053.03458	-0.00008

42	7	36	41	7	35	1053.41973	-0.00040
42	6	36	41	6	35	1053.41973	-0.00040
44	5	40	43	5	39	1053.52445	-0.00025
44	4	40	43	4	39	1053.52445	-0.00025
45	3	42	44	3	41	1053.65532	-0.00007
45	4	42	44	4	41	1053.65532	-0.00007
46	3	44	45	3	43	1053.78266	-0.00001
46	2	44	45	2	43	1053.78266	-0.00001
47	1	46	46	1	45	1053.91120	-0.00007
47	2	46	46	2	45	1053.91120	-0.00007
48	1	48	47	1	47	1054.04199	-0.00057
48	0	48	47	0	47	1054.04199	-0.00057
29	21	9	28	21	8	1052.56231	0.00048
29	20	9	28	20	8	1052.56231	0.00017
30	19	11	29	19	10	1052.61429	0.00016
30	20	11	29	20	10	1052.61429	0.00016
32	18	15	31	18	14	1052.74488	-0.00011
32	17	15	31	17	14	1052.74488	-0.00011
33	16	17	32	16	16	1052.81790	-0.00003
33	17	17	32	17	16	1052.81790	-0.00003
34	16	19	33	16	18	1052.89502	0.00013
34	15	19	33	15	18	1052.89502	0.00013
35	14	21	34	14	20	1052.97552	0.00005
35	15	21	34	15	20	1052.97552	0.00005
37	12	25	36	12	24	1053.14819	-0.00006
37	13	25	36	13	24	1053.14819	-0.00006
38	12	27	37	12	26	1053.24024	-0.00025
38	11	27	37	11	26	1053.24024	-0.00025
39	10	29	38	10	28	1053.33720	0.00008
39	11	29	38	11	28	1053.33720	0.00008
40	10	31	39	10	30	1053.43896	-0.00013
40	9	31	39	9	30	1053.43896	-0.00013
44	6	39	43	6	38	1053.78906	-0.00024
44	5	39	43	5	38	1053.78906	-0.00024
45	4	41	44	4	40	1053.93089	-0.00027
45	5	41	44	5	40	1053.93089	-0.00027
46	4	43	45	4	42	1054.05900	-0.00022
46	3	43	45	3	42	1054.05900	-0.00022
47	2	45	46	2	44	1054.18632	-0.00007
47	3	45	46	3	44	1054.18632	-0.00007
48	2	47	47	2	46	1054.31537	-0.00009
48	1	47	47	1	46	1054.31537	-0.00009
49	0	49	48	0	48	1054.44733	-0.00009

49	1	49	48	1	48	1054.44733	-0.00009
30	21	10	29	21	9	1052.94983	0.00015
30	20	10	29	20	9	1052.94983	0.00012
34	17	18	33	17	17	1053.21378	0.00001
34	16	18	33	16	17	1053.21378	0.00001
35	15	20	34	15	19	1053.29151	-0.00012
35	16	20	34	16	19	1053.29151	-0.00012
37	13	24	36	13	23	1053.45780	-0.00051
37	14	24	36	14	23	1053.45780	-0.00051
39	11	28	38	11	27	1053.64117	0.00005
39	12	28	38	12	27	1053.64117	0.00005
40	11	30	39	11	29	1053.73951	-0.00008
40	10	30	39	10	29	1053.73951	-0.00008
41	9	32	40	9	31	1053.84495	0.00016
41	10	32	40	10	31	1053.84495	0.00016
45	5	40	44	5	39	1054.20194	-0.00027
45	6	40	44	6	39	1054.20194	-0.00027
46	5	42	45	5	41	1054.33481	-0.00018
46	4	42	45	4	41	1054.33481	-0.00018
47	3	44	46	3	43	1054.46149	-0.00036
47	4	44	46	4	43	1054.46149	-0.00036
48	3	46	47	3	45	1054.58906	-0.00011
48	2	46	47	2	45	1054.58906	-0.00011
49	1	48	48	1	47	1054.71854	-0.00025
49	2	48	48	2	47	1054.71854	-0.00025
50	1	50	49	1	49	1054.85097	-0.00047
50	0	50	49	0	49	1054.85097	-0.00047
32	20	13	31	20	12	1053.39789	-0.00004
32	19	13	31	19	12	1053.39789	-0.00004
33	18	15	32	18	14	1053.46384	0.00014
33	19	15	32	19	14	1053.46384	0.00014
35	16	19	34	16	18	1053.60919	0.00024
35	17	19	34	17	18	1053.60919	0.00024
36	16	21	35	16	20	1053.68727	-0.00005
36	15	21	35	15	20	1053.68727	-0.00005
38	14	25	37	14	24	1053.85613	-0.00001
38	13	25	37	13	24	1053.85613	-0.00001
39	12	27	38	12	26	1053.94657	-0.00005
39	13	27	38	13	26	1053.94657	-0.00005
41	10	31	40	10	30	1054.14288	0.00007
41	11	31	40	11	30	1054.14288	0.00007
43	8	35	42	8	34	1054.38780	-0.00036
43	9	35	42	9	34	1054.38780	-0.00036

46	6	41	45	6	40	1054.60810	-0.00017
46	5	41	45	5	40	1054.60810	-0.00017
47	4	43	46	4	42	1054.73686	-0.00018
47	5	43	46	5	42	1054.73686	-0.00018
48	4	45	47	4	44	1054.86329	-0.00011
48	3	45	47	3	44	1054.86329	-0.00011
49	2	47	48	2	46	1054.99098	-0.00006
49	3	47	48	3	46	1054.99098	-0.00006
51	0	51	50	0	50	1055.25440	-0.00022
51	1	51	50	1	50	1055.25440	-0.00022
31	21	10	30	21	9	1053.67526	-0.00003
31	22	10	30	22	9	1053.67526	0.00002
32	20	12	31	20	11	1053.72845	0.00049
32	21	12	31	21	11	1053.72845	0.00049
34	19	16	33	19	15	1053.85613	-0.00027
34	18	16	33	18	15	1053.85613	-0.00027
35	17	18	34	17	17	1053.92792	0.00002
35	18	18	34	18	17	1053.92792	0.00002
36	17	20	35	17	19	1054.00362	0.00003
36	16	20	35	16	19	1054.00362	0.00003
38	15	24	37	15	23	1054.16586	-0.00030
38	14	24	37	14	23	1054.16586	-0.00030
39	13	26	38	13	25	1054.25356	-0.00005
39	14	26	38	14	25	1054.25356	-0.00005
40	13	28	39	13	27	1054.34540	-0.00014
40	12	28	39	12	27	1054.34540	-0.00014
41	11	30	40	11	29	1054.44308	0.00024
41	12	30	40	12	29	1054.44308	0.00024
42	11	32	41	11	31	1054.54779	0.00008
42	10	32	41	10	31	1054.54779	0.00008
47	5	42	46	5	41	1055.01071	-0.00019
47	6	42	46	6	41	1055.01071	-0.00019
48	5	44	47	5	43	1055.13764	-0.00007
48	4	44	47	4	43	1055.13764	-0.00007
49	3	46	48	3	45	1055.26405	0.00011
49	4	46	48	4	45	1055.26405	0.00011
50	3	48	49	3	47	1055.39224	0.00023
50	2	48	49	2	47	1055.39224	0.00023
51	1	50	50	1	49	1055.52290	0.00004
51	2	50	50	2	49	1055.52290	0.00004
52	1	52	51	1	51	1055.65687	-0.00010
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32	21	11	31	21	10	1054.06117	-0.00005

32	22	11	31	22	10	1054.06117	-0.00005
33	20	13	32	20	12	1054.11760	0.00033
33	21	13	32	21	12	1054.11760	0.00033
35	18	17	34	18	16	1054.24866	0.00017
35	19	17	34	19	16	1054.24866	0.00017
36	18	19	35	18	18	1054.32073	-0.00021
36	17	19	35	17	18	1054.32073	-0.00021
39	14	25	38	14	24	1054.56203	-0.00005
39	15	25	38	15	24	1054.56203	-0.00005
40	14	27	39	14	26	1054.65072	-0.00015
40	13	27	39	13	26	1054.65072	-0.00015
42	12	31	41	12	30	1054.84497	0.00002
42	11	31	41	11	30	1054.84497	0.00002
48	6	43	47	6	42	1055.41117	-0.00019
48	5	43	47	5	42	1055.41117	-0.00019
49	4	45	48	4	44	1055.53717	0.00000
49	5	45	48	5	44	1055.53717	0.00000
50	4	47	49	4	46	1055.66361	0.00008
50	3	47	49	3	46	1055.66361	0.00008
51	2	49	50	2	48	1055.79232	0.00022
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52	2	51	51	2	50	1055.92385	0.00024
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53	0	53	52	0	52	1056.05834	-0.00015
53	1	53	52	1	52	1056.05834	-0.00015
34	20	14	33	20	13	1054.50634	0.00003
34	21	14	33	21	13	1054.50634	0.00003
36	19	18	35	19	17	1054.63997	0.00000
36	18	18	35	18	17	1054.63997	0.00000
37	18	20	36	18	19	1054.71344	-0.00008
37	17	20	36	17	19	1054.71344	-0.00008
42	13	30	41	13	29	1055.14418	-0.00024
42	12	30	41	12	29	1055.14418	-0.00024
43	11	32	42	11	31	1055.24918	-0.00003
43	12	32	42	12	31	1055.24918	-0.00003
48	7	42	47	7	41	1055.68279	-0.00026
48	6	42	47	6	41	1055.68279	-0.00026
49	5	44	48	5	43	1055.81045	0.00028
49	6	44	48	6	43	1055.81045	0.00028
50	5	46	49	5	45	1055.93565	0.00011
50	4	46	49	4	45	1055.93565	0.00011
51	3	48	50	3	47	1056.06239	0.00021
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53	1	52	52	1	51	1056.32394	0.00041
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35	20	15	34	20	14	1054.89509	0.00013
35	21	15	34	21	14	1054.89509	0.00013
36	20	17	35	20	16	1054.96053	-0.00014
36	19	17	35	19	16	1054.96053	-0.00014
37	18	19	36	18	18	1055.03116	0.00027
37	19	19	36	19	18	1055.03116	0.00027
38	18	21	37	18	20	1055.10487	0.00002
38	17	21	37	17	20	1055.10487	0.00002
42	14	29	41	14	28	1055.44540	-0.00043
42	13	29	41	13	28	1055.44540	-0.00043
49	6	43	48	6	42	1056.08166	-0.00042
49	7	43	48	7	42	1056.08166	-0.00042
54	2	53	53	2	52	1056.72316	0.00055
54	1	53	53	1	52	1056.72316	0.00055
55	0	55	54	0	54	1056.85927	0.00022
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34	23	12	33	23	11	1055.16554	-0.00025
34	22	12	33	22	11	1055.16554	-0.00025
35	21	14	34	21	13	1055.22144	0.00021
35	22	14	34	22	13	1055.22144	0.00021
36	20	16	35	20	15	1055.28345	0.00032
36	21	16	35	21	15	1055.28345	0.00032
37	19	18	36	19	17	1055.34993	-0.00006
37	20	18	36	20	17	1055.34993	-0.00006
38	18	20	37	18	19	1055.42146	0.00004
38	19	20	37	19	19	1055.42146	0.00004
40	17	24	39	17	23	1055.57550	-0.00044
40	16	24	39	16	23	1055.57550	-0.00044
49	7	42	48	7	41	1056.35119	-0.00013
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50	7	44	49	7	43	1056.47927	0.00009
50	6	44	49	6	43	1056.47927	0.00009
51	5	46	50	5	45	1056.60416	0.00025
51	6	46	50	6	45	1056.60416	0.00025
52	5	48	51	5	47	1056.72974	0.00047
52	4	48	51	4	47	1056.72974	0.00047
35	23	13	34	23	12	1055.55013	0.00015
35	22	13	34	22	12	1055.55013	0.00015
36	22	15	35	22	14	1055.60745	-0.00010
36	21	15	35	21	14	1055.60745	-0.00010
37	20	17	36	20	16	1055.67088	0.00007

37	21	17	36	21	16	1055.67088	0.00007
38	20	19	37	20	18	1055.73908	0.00027
38	19	19	37	19	18	1055.73908	0.00027
41	16	25	40	16	24	1055.96797	-0.00020
41	17	25	40	17	24	1055.96797	-0.00020
42	16	27	41	16	26	1056.05351	-0.00034
42	15	27	41	15	26	1056.05351	-0.00034
43	14	29	42	14	28	1056.14538	0.00009
43	15	29	42	15	28	1056.14538	0.00009
44	14	31	43	14	30	1056.24443	-0.00023
44	13	31	43	13	30	1056.24443	-0.00023
50	8	43	49	8	42	1056.74889	-0.00025
50	7	43	49	7	42	1056.74889	-0.00025
51	6	45	50	6	44	1056.87494	0.00019
51	7	45	50	7	44	1056.87494	0.00019
52	6	47	51	6	46	1056.99930	0.00021
52	5	47	51	5	46	1056.99930	0.00021
53	4	49	52	4	48	1057.12548	0.00077
53	5	49	52	5	48	1057.12548	0.00077
34	25	10	33	25	9	1055.84166	0.00020
34	24	10	33	24	9	1055.84166	-0.00008
37	22	16	36	22	15	1055.99351	0.00005
37	21	16	36	21	15	1055.99351	0.00005
39	20	20	38	20	19	1056.12740	0.00008
39	19	20	38	19	19	1056.12740	0.00008
43	15	28	42	15	27	1056.44796	-0.00012
43	16	28	42	16	27	1056.44796	-0.00012
44	15	30	43	15	29	1056.54267	-0.00007
44	14	30	43	14	29	1056.54267	-0.00007
50	9	42	49	9	41	1057.01510	-0.00055
50	8	42	49	8	41	1057.01510	-0.00055
51	7	44	50	7	43	1057.14489	0.00022
51	8	44	50	8	43	1057.14489	0.00022
52	7	46	51	7	45	1057.26931	0.00032
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53	5	48	52	5	47	1057.39398	0.00074
53	6	48	52	6	47	1057.39398	0.00074
35	25	11	34	25	10	1056.21821	0.00028
35	24	11	34	24	10	1056.21821	0.00025
36	24	13	35	24	12	1056.26365	0.00024
36	23	13	35	23	12	1056.26365	0.00024
38	22	17	37	22	16	1056.37902	0.00008
38	21	17	37	21	16	1056.37902	0.00008

39	20	19	38	20	18	1056.44462	-0.00010
39	21	19	38	21	18	1056.44462	-0.00010
40	20	21	39	20	20	1056.51473	0.00047
40	19	21	39	19	20	1056.51473	0.00047
43	16	27	42	16	26	1056.75220	-0.00043
43	17	27	42	17	26	1056.75220	-0.00043
44	16	29	43	16	28	1056.84284	-0.00024
44	15	29	43	15	28	1056.84284	-0.00024
45	14	31	44	14	30	1056.94194	-0.00034
45	15	31	44	15	30	1056.94194	-0.00034
51	8	43	50	8	42	1057.41261	0.00016
51	9	43	50	9	42	1057.41261	0.00016
52	8	45	51	8	44	1057.53875	0.00031
52	7	45	51	7	44	1057.53875	0.00031
53	6	47	52	6	46	1057.66293	0.00087
53	7	47	52	7	46	1057.66293	0.00087
35	26	10	34	26	9	1056.56083	0.00061
35	25	10	34	25	9	1056.56083	0.00015
36	24	12	35	24	11	1056.59604	0.00001
36	25	12	35	25	11	1056.59604	0.00001
37	23	14	36	23	13	1056.64523	0.00010
37	24	14	36	24	13	1056.64523	0.00010
38	22	16	37	22	15	1056.70195	0.00017
38	23	16	37	23	15	1056.70195	0.00017
39	21	18	38	21	17	1056.76398	-0.00001
39	22	18	38	22	17	1056.76398	-0.00001
40	20	20	39	20	19	1056.83132	0.00007
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43	17	26	42	17	25	1057.05876	-0.00010
43	18	26	42	18	25	1057.05876	-0.00010
51	9	42	50	9	41	1057.67566	-0.00026
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52	9	44	51	9	43	1057.80686	0.00029
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38	23	15	37	23	14	1057.02683	0.00008
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40	21	19	39	21	18	1057.14851	-0.00015
40	22	19	39	22	18	1057.14851	-0.00015
41	20	21	40	20	20	1057.21650	0.00056
41	21	21	40	21	20	1057.21650	0.00056
43	18	25	42	18	24	1057.36636	-0.00036
43	19	25	42	19	24	1057.36636	-0.00036
44	18	27	43	18	26	1057.44926	-0.00038



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25	3	23	26	2	24	1020.50409	-0.00003
25	2	23	26	3	24	1020.50409	-0.00003
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16	1	16	17	0	17	1025.46895	0.00001
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15	0	15	16	1	16	1025.93284	0.00016
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14	0	14	15	1	15	1026.39555	-0.00001
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12	0	12	13	1	13	1027.31892	0.00020
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8	0	8	7	1	7	1037.13162	-0.00003
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8	2	7	7	1	6	1037.46528	0.00003
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9	0	9	8	1	8	1037.57172	-0.00018
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11	3	8	10	4	7	1039.44208	-0.00005
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13	2	12	12	1	11	1039.65048	0.00004
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43	13	30	42	13	29	1055.84402	-0.00036
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48	10	39	47	10	38	1056.43892	-0.00013
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25	3	22	24	3	21	1045.42645	0.00023
25	4	22	24	4	21	1045.42645	0.00023
30	3	28	29	3	27	1047.21557	0.00006

30	2	28	29	2	27	1047.21557	0.00006
19	15	5	18	15	4	1046.51206	-0.00047
19	14	5	18	14	4	1046.58310	-0.00016
20	13	7	19	13	6	1046.59326	-0.00028
20	14	7	19	14	6	1046.59326	0.00035
31	2	29	30	2	28	1047.63347	0.00018
31	3	29	30	3	28	1047.63347	0.00018
22	15	7	21	15	6	1048.08829	-0.00030
22	16	7	21	16	6	1048.08640	-0.00017