

Supplemental material

Table I.

Some of the calculated *ab initio* potential energies v.s. internuclear separations of the BO($X^2\Sigma^+$).

<i>R</i> / bohr	<i>E</i> / hartree	<i>R</i> / bohr	<i>E</i> / hartree	<i>R</i> / bohr	<i>E</i> / hartree	<i>R</i> / bohr	<i>E</i> / hartree
1.71399	-99.61384	3.13129	-99.76974	4.54858	-99.60652	9.83982	-99.59046
1.80848	-99.72553	3.22577	-99.75280	4.64307	-99.60055	10.21776	-99.59046
1.90297	-99.80184	3.32026	-99.73677	4.73756	-99.59495	10.59571	-99.59046
1.99742	-99.85164	3.41475	-99.72176	5.30447	-99.59459	10.97365	-99.59046
2.09194	-99.88161	3.50923	-99.70780	5.68242	-99.59203	11.35160	-99.59045
2.18642	-99.89685	3.60372	-99.69484	6.06036	-99.59092	11.72955	-99.59045
2.28091	-99.90123	3.69821	-99.68283	6.43831	-99.59074	12.10749	-99.59045
2.37540	-99.89769	3.79269	-99.67168	6.81626	-99.59065	12.48544	-99.59045
2.46988	-99.88850	3.88718	-99.66134	7.19420	-99.59059	12.86338	-99.59044
2.56437	-99.87538	3.98167	-99.65176	7.57215	-99.59055	13.24133	-99.59044
2.65886	-99.85964	4.07615	-99.64287	7.95009	-99.59052	13.61927	-99.59044
2.75334	-99.84230	4.17064	-99.63460	8.32804	-99.59050	13.99722	-99.59044
2.84783	-99.82412	4.26512	-99.62688	8.70598	-99.59049	14.37516	-99.59044
2.94232	-99.80569	4.35961	-99.61966	9.08393	-99.59048		
3.03680	-99.78746	4.45410	-99.61289	9.46187	-99.59047		

Table II.**Some of the calculated *ab initio* potential energies v.s. internuclear separations of the BO(A²Π).**

<i>R</i> / bohr	<i>E</i> / hartree	<i>R</i> / bohr	<i>E</i> / hartree	<i>R</i> / bohr	<i>E</i> / hartree	<i>R</i> / bohr	<i>E</i> / hartree
1.83304	-99.52436	4.57314	-99.64256	7.31324	-99.59236	10.05335	-99.59101
1.92752	-99.61494	4.66763	-99.63741	7.40773	-99.59221	10.14783	-99.59100
2.02201	-99.67970	4.76211	-99.63263	7.50222	-99.59207	10.24232	-99.59099
2.11649	-99.72497	4.85660	-99.62821	7.59670	-99.59195	10.33681	-99.59099
2.21098	-99.75558	4.95108	-99.62415	7.69119	-99.59185	10.43129	-99.59098
2.30547	-99.77521	5.04557	-99.62044	7.78568	-99.59175	10.52578	-99.59098
2.39995	-99.78664	5.14006	-99.61706	7.88016	-99.59166	10.62027	-99.59097
2.49444	-99.79200	5.23454	-99.61401	7.97465	-99.59159	10.71475	-99.59097
2.58893	-99.79290	5.32903	-99.61126	8.06913	-99.59152	10.80924	-99.59096
2.68341	-99.79055	5.42352	-99.60881	8.16362	-99.59146	10.90372	-99.59096
2.77790	-99.78590	5.51800	-99.60664	8.25811	-99.59141	10.99821	-99.59095
2.87239	-99.77963	5.61249	-99.60471	8.35259	-99.59137	11.09270	-99.59095
2.96687	-99.77225	5.70698	-99.60301	8.44708	-99.59132	11.18718	-99.59095
3.06136	-99.76417	5.80146	-99.60152	8.54157	-99.59129	11.28167	-99.59094
3.15584	-99.75566	5.89595	-99.60021	8.63605	-99.59125	11.37616	-99.59094
3.25033	-99.74694	5.99043	-99.59907	8.73054	-99.59122	11.47064	-99.59094
3.34482	-99.73815	6.08492	-99.59807	8.82502	-99.59120	11.56513	-99.59094
3.43930	-99.72940	6.17941	-99.59720	8.91951	-99.59117	11.65962	-99.59093
3.53379	-99.72077	6.27389	-99.59644	9.01400	-99.59115	11.75410	-99.59093
3.62828	-99.71231	6.36838	-99.59578	9.10848	-99.59113	11.84859	-99.59093
3.72276	-99.70406	6.46287	-99.59520	9.20297	-99.59111	11.94307	-99.59093
3.81725	-99.69605	6.55735	-99.59469	9.29746	-99.59109	12.03756	-99.59093
3.91174	-99.68830	6.65184	-99.59425	9.39194	-99.59108	12.13205	-99.59092
4.00622	-99.68083	6.74633	-99.59386	9.48643	-99.59107	12.22653	-99.59092
4.10071	-99.67364	6.84081	-99.59353	9.58092	-99.59105	12.32102	-99.59092
4.19519	-99.66675	6.93530	-99.59323	9.67540	-99.59104	12.41551	-99.59092
4.28968	-99.66018	7.02978	-99.59297	9.76989	-99.59103	12.50376	-99.59092
4.38417	-99.65395	7.12427	-99.59274	9.86437	-99.59102		
4.47865	-99.64807	7.21876	-99.59254	9.95886	-99.59101		

Table III.

Vibrational levels G_v , inertial rotation constant B_v and centrifugal distortion constant D_v of $^{11}\text{B}^{16}\text{O}(\text{X}^2\Sigma^+)$ and $^{10}\text{B}^{16}\text{O}(\text{X}^2\Sigma^+)$ isotopologues.

v	$^{11}\text{B}^{16}\text{O}$			$^{10}\text{B}^{16}\text{O}$		
	G_v/cm^{-1}	B_v/cm^{-1}	$10^6 D_v/\text{cm}^{-1}$	G_v/cm^{-1}	B_v/cm^{-1}	$10^6 D_v/\text{cm}^{-1}$
0	942.71	1.76016	6.09260	969.73	1.86346	6.82131
1	2809.47	1.73381	5.26753	2889.50	1.83500	5.92491
2	4651.36	1.71086	5.90394	4783.05	1.81044	6.65922
3	6468.43	1.69833	6.76106	6650.43	1.79728	7.64232
4	8260.71	1.68993	7.31921	8491.65	1.78823	8.23242
5	10028.24	1.68065	7.28482	10306.74	1.77771	8.11908
6	11771.05	1.66761	6.78188	12095.75	1.76287	7.51620
7	13489.17	1.65115	6.28128	13858.69	1.74451	6.97427
8	15182.64	1.63328	6.04450	15595.60	1.72490	6.75035
9	16851.51	1.61528	6.00492	17306.52	1.70532	6.74066
10	18495.79	1.59758	6.08014	18991.46	1.68610	6.84103
11	20115.53	1.58024	6.19192	20650.47	1.66725	6.95970
12	21710.77	1.56305	6.21885	22283.57	1.64863	6.97758
13	23281.53	1.54605	6.18613	23890.79	1.63031	6.93765
14	24827.86	1.52965	6.23465	25472.17	1.61260	7.01872
15	26349.79	1.51370	6.37458	27027.74	1.59512	7.22404
16	27847.35	1.49728	6.51468	28557.52	1.57687	7.38347
17	29320.59	1.47996	6.59100	30061.55	1.55769	7.40816
18	30769.53	1.46222	6.58804	31539.85	1.53839	7.35731
19	32194.21	1.44474	6.56448	32992.47	1.51954	7.35368
20	33594.67	1.42761	6.59173	34419.42	1.50088	7.42867
21	34970.94	1.41040	6.65011	35820.75	1.48195	7.49467
22	36323.06	1.39286	6.68169	37196.48	1.46268	7.51070
23	37651.06	1.37509	6.68725	38546.64	1.44323	7.51151
24	38954.98	1.35723	6.69993	39871.26	1.42370	7.53954
25	40234.85	1.33927	6.73421	41170.38	1.40404	7.58404
26	41490.72	1.32124	6.78195	42444.02	1.38429	7.64649
27	42722.60	1.30308	6.83012	43692.21	1.36442	7.69666
28	43930.55	1.28484	6.87791	44915.00	1.34446	7.75736
29	45114.60	1.26650	6.91876	46112.40	1.32440	7.80343
30	46274.77	1.24810	6.96895	47284.44	1.30425	7.86163
31	47411.11	1.22958	7.00831	48431.17	1.28402	7.91390
32	48523.66	1.21101	7.06221	49552.61	1.26369	7.96584
33	49612.44	1.19236	7.10218	50648.79	1.24331	8.03157
34	50677.49	1.17365	7.16083	51719.73	1.22283	8.08962
35	51718.86	1.15488	7.21667	52765.49	1.20229	8.17543
36	52736.56	1.13602	7.28383	53786.07	1.18163	8.26492
37	53730.65	1.11709	7.36623	54781.52	1.16083	8.37548

38	54701.15	1.09800	7.45581	55751.86	1.13984	8.51420
39	55648.10	1.07876	7.57135	56697.13	1.11853	8.86821
40	57124.05	1.06417	8.11144	57156.03	1.06317	8.24472
41	58017.73	1.04206	8.31597	58043.58	1.04107	8.44427
42	58882.47	1.01945	8.54405	58902.37	1.01850	8.66627
43	59717.75	0.99629	8.79938	59731.95	0.99541	8.91423
44	60523.01	0.97253	9.08650	60531.78	0.97174	9.19246
45	61297.63	0.94810	9.41110	61301.33	0.94744	9.50632
46	62040.93	0.92292	9.78034	62039.97	0.92242	9.86259
47	62752.18	0.89690	10.2035	62747.03	0.89661	10.2699
48	63430.55	0.86994	10.6925	63421.75	0.86990	10.7397
49	64075.11	0.84189	11.2637	64063.29	0.84216	11.2870
50	64684.84	0.81259	11.9391	64670.70	0.81325	11.9326
51	65258.53	0.78183	12.7504	65242.87	0.78295	12.7055
52	65794.81	0.74933	13.7436	65778.54	0.75101	13.6486
53	66292.06	0.71473	14.9901	66276.20	0.71710	14.8273
54	66748.31	0.67749	16.6070	66734.03	0.68071	16.3484
55	67161.13	0.63685	18.8029	67149.77	0.64115	18.3999
56	67527.33	0.59156	21.9974	67520.47	0.59727	21.3546
57	67842.49	0.53933	27.2083	67842.02	0.54700	26.0948
58	68099.59	0.47488	37.9821	68107.97	0.48571	35.5394
59	68283.27	0.37165	108.460	68304.88	0.39338	84.5749

Table IV.

Vibrational level G_v , inertial rotation constant B_v and centrifugal distortion constant D_v of the $^{11}\text{B}^{16}\text{O}(\text{A}^2\Pi)$ and $^{10}\text{B}^{16}\text{O}(\text{A}^2\Pi)$ isotopologues.

v	$^{11}\text{B}^{16}\text{O}$			$^{10}\text{B}^{16}\text{O}$		
	G_v/cm^{-1}	B_v/cm^{-1}	$10^6 D_v/\text{cm}^{-1}$	G_v/cm^{-1}	B_v/cm^{-1}	$10^6 D_v/\text{cm}^{-1}$
0	625.69	1.39601	6.95654	643.36	1.47802	7.80019
1	1861.80	1.37809	6.94380	1914.06	1.45849	7.78549
2	3077.74	1.36028	6.93045	3163.57	1.43909	7.76975
3	4273.74	1.34262	6.91348	4392.13	1.41986	7.75001
4	5450.02	1.32509	6.89375	5599.98	1.40078	7.72663
5	6606.80	1.30773	6.87038	6787.34	1.38188	7.69939
6	7744.32	1.29052	6.84717	7954.45	1.36317	7.67264
7	8862.79	1.27347	6.82240	9101.55	1.34462	7.64313
8	9962.45	1.25659	6.79483	10228.86	1.32627	7.60975
9	11043.51	1.23990	6.76194	11336.62	1.30813	7.57196
10	12106.20	1.22337	6.72636	12425.07	1.29017	7.53016
11	13150.74	1.20703	6.69416	13494.42	1.27243	7.49215
12	14177.37	1.19087	6.65751	14544.93	1.25489	7.44967
13	15186.30	1.17489	6.62006	15576.82	1.23755	7.40481
14	16177.77	1.15909	6.57862	16590.32	1.22042	7.35754
15	17151.98	1.14347	6.53836	17585.67	1.20348	7.31025
16	18109.18	1.12804	6.49720	18563.10	1.18675	7.26299
17	19049.59	1.11278	6.45624	19522.84	1.17022	7.21519
18	19973.42	1.09771	6.41609	20465.13	1.15390	7.17150
19	20880.91	1.08281	6.38006	21390.20	1.13776	7.13055
20	21772.28	1.06807	6.34452	22298.29	1.12180	7.08893
21	22647.75	1.05349	6.30718	23189.61	1.10601	7.04575
22	23507.56	1.03907	6.27132	24064.42	1.09041	7.01005
23	24351.91	1.02480	6.24306	24922.94	1.07494	6.98056
24	25181.05	1.01064	6.21789	25749.01	1.05959	6.95191
25	25995.19	0.99659	6.19281	26578.12	1.04437	6.92624
26	26794.57	0.98265	6.17269	27392.65	1.02925	6.91177
27	27579.39	0.96880	6.16260	28192.91	1.01421	6.90668
28	28349.90	0.95500	6.15909	28979.22	0.99921	6.90889
29	29106.31	0.94124	6.16209	29751.91	0.98423	6.92179
30	29848.85	0.92750	6.17491	30496.07	0.96924	6.94906
31	30577.74	0.91374	6.19967	31232.67	0.95420	6.99100
32	31293.21	0.89994	6.23678	31955.08	0.93907	7.04801
33	31995.49	0.88605	6.28666	32663.53	0.92381	7.11807
34	32684.80	0.87205	6.34729	33358.26	0.90840	7.19947
35	33361.36	0.85790	6.41744	34039.50	0.89280	7.29451
36	34025.39	0.84360	6.49916	34707.48	0.87700	7.40246
37	34677.13	0.82910	6.59168	35362.43	0.86096	7.52377

38	35316.80	0.81441	6.69507	36004.59	0.84467	7.66484
39	35944.63	0.79948	6.81470	36634.19	0.82808	7.83056
40	36572.55	0.78218	7.05387	37251.60	0.80851	8.10981
41	37151.18	0.76634	7.20361	37826.04	0.79080	8.31052
42	37712.72	0.75016	7.37339	38381.92	0.77267	8.53929
43	38256.81	0.73360	7.56613	38918.80	0.75406	8.80069
44	38783.04	0.71664	7.78538	39436.19	0.73490	9.10040
45	39291.00	0.69920	8.03556	39933.57	0.71513	9.44566
46	39780.20	0.68123	8.32220	40410.33	0.69466	9.84567
47	40250.11	0.66267	8.65230	40865.81	0.67340	10.3125
48	40700.16	0.64342	9.03485	41299.28	0.65121	10.8620
49	41129.69	0.62340	9.48163	41709.91	0.62795	11.5159
50	41537.97	0.60248	10.0083	42096.72	0.60345	12.3043
51	41924.16	0.58052	10.6363	42458.65	0.57746	13.2703
52	42287.34	0.55734	11.3957	42794.40	0.54967	14.4777
53	42626.40	0.53270	12.3295	43102.48	0.51969	16.0257
54	42940.09	0.50630	13.5027	43381.10	0.48693	18.0754
55	43226.91	0.47772	15.0163	43628.05	0.45057	20.9056
56	43485.06	0.44639	17.0372	43840.62	0.40938	25.0291
57	43712.34	0.41146	19.8570	44015.36	0.36145	31.4107
58	43906.01	0.37165	24.0135	44148.23	0.30438	41.2639
59	44062.67	0.32510	30.4677	44236.87	0.24045	48.9412
60	44178.62	0.26999	39.7204	44290.03	0.19067	38.6282
61	44253.53	0.21231	42.5500	44325.87	0.15932	36.1842
62	44299.53	0.17232	32.4682	44351.37	0.12842	50.6160
63	44331.96	0.14476	33.5075	44365.99	0.08139	163.726
64	44354.86	0.11522	50.3522			
65	44367.00	0.06480	251.398			

Table V.

Ro-vibrational levels (in cm^{-1}) for the $^{11}\text{B}^{16}\text{O}(X^2\Sigma^+)$ isotopologue.

J	$v=0$	$v=1$	$v=2$	$v=3$	$v=4$	$v=5$	$v=6$	$v=7$	$v=8$
0	942.71	2809.47	4651.36	6468.43	8260.71	10028.24	11771.05	13489.17	15182.64
1	946.22	2812.94	4654.81	6471.85	8264.10	10031.59	11774.37	13492.46	15185.90
2	953.23	2819.90	4661.70	6478.68	8270.86	10038.30	11781.01	13499.04	15192.42
3	963.75	2830.32	4672.03	6488.92	8281.01	10048.35	11790.97	13508.90	15202.19
4	977.77	2844.22	4685.81	6502.58	8294.55	10061.76	11804.25	13522.06	15215.21
5	995.30	2861.60	4703.04	6519.64	8311.46	10078.52	11820.85	13538.50	15231.50
6	1016.33	2882.45	4723.70	6540.13	8331.75	10098.63	11840.77	13558.23	15251.03
7	1040.86	2906.77	4747.81	6564.02	8355.43	10122.08	11864.01	13581.24	15273.83
8	1068.89	2934.56	4775.36	6591.32	8382.48	10148.89	11890.56	13607.54	15299.87
9	1100.43	2965.82	4806.34	6622.03	8412.92	10179.04	11920.43	13637.13	15329.17
10	1135.46	3000.55	4840.77	6656.15	8446.73	10212.53	11953.61	13669.99	15361.71
11	1174.00	3038.75	4878.63	6693.68	8483.91	10249.38	11990.11	13706.14	15397.51
12	1216.03	3080.42	4919.93	6734.60	8524.47	10289.56	12029.91	13745.56	15436.55
13	1261.55	3125.55	4964.67	6778.94	8568.40	10333.08	12073.03	13788.27	15478.84
14	1310.57	3174.14	5012.83	6826.67	8615.70	10379.94	12119.45	13834.25	15524.37
15	1363.07	3226.19	5064.42	6877.80	8666.36	10430.14	12169.18	13883.50	15573.14
16	1419.07	3281.70	5119.45	6932.33	8720.40	10483.68	12222.21	13936.02	15625.15
17	1478.55	3340.67	5177.89	6990.26	8777.79	10540.54	12278.53	13991.81	15680.40
18	1541.51	3403.09	5239.76	7051.57	8838.55	10600.73	12338.16	14050.87	15738.88
19	1607.96	3468.96	5305.05	7116.27	8902.66	10664.26	12401.08	14113.19	15800.60
20	1677.88	3538.27	5373.76	7184.36	8970.13	10731.10	12467.30	14178.77	15865.54
21	1751.28	3611.04	5445.88	7255.84	9040.95	10801.26	12536.80	14247.60	15933.71
22	1828.16	3687.24	5521.41	7330.69	9115.13	10874.75	12609.59	14319.70	16005.09
23	1908.50	3766.88	5600.35	7408.92	9192.64	10951.54	12685.67	14395.04	16079.70
24	1992.30	3849.96	5682.69	7490.52	9273.50	11031.65	12765.02	14473.63	16157.52
25	2079.57	3936.47	5768.43	7575.50	9357.70	11115.07	12847.64	14555.46	16238.56
26	2170.30	4026.41	5857.58	7663.84	9445.23	11201.79	12933.54	14640.54	16322.80
27	2264.48	4119.77	5950.11	7755.54	9536.09	11291.80	13022.71	14728.85	16410.25
28	2362.11	4216.55	6046.03	7850.60	9630.28	11385.12	13115.14	14820.39	16500.89
29	2463.19	4316.75	6145.34	7949.02	9727.80	11481.72	13210.83	14915.16	16594.74
30	2567.71	4420.36	6248.03	8050.78	9828.63	11581.62	13309.78	15013.15	16691.77
31	2675.67	4527.37	6354.10	8155.89	9932.78	11684.79	13411.98	15114.36	16791.99
32	2787.06	4637.79	6463.54	8264.34	10040.23	11791.25	13517.42	15218.79	16895.39
33	2901.89	4751.61	6576.35	8376.13	10150.99	11900.97	13626.10	15326.42	17001.97
34	3020.13	4868.82	6692.52	8491.25	10265.05	12013.97	13738.03	15437.26	17111.72
35	3141.80	4989.42	6812.04	8609.69	10382.41	12130.22	13853.18	15551.30	17224.64
36	3266.88	5113.41	6934.92	8731.46	10503.05	12249.74	13971.56	15668.54	17340.71
37	3395.36	5240.77	7061.15	8856.54	10626.98	12372.51	14093.16	15788.96	17459.95
38	3527.26	5371.50	7190.71	8984.93	10754.19	12498.52	14217.97	15912.56	17582.34
39	3662.54	5505.60	7323.62	9116.63	10884.67	12627.78	14345.99	16039.34	17707.87

Table VI.

Ro-vibrational levels (in cm^{-1}) for the $^{11}\text{B}^{16}\text{O}(\text{A}^2\Pi)$ isotopologue.

J	$v=0$	$v=1$	$v=2$	$v=3$	$v=4$	$v=5$	$v=6$	$v=7$	$v=8$
0	625.69	1861.80	3077.74	4273.74	5450.02	6606.80	7744.32	8862.79	9962.45
1	628.48	1864.55	3080.46	4276.42	5452.67	6609.42	7746.90	8865.34	9964.96
2	634.05	1870.05	3085.89	4281.79	5457.97	6614.65	7752.07	8870.44	9969.99
3	642.41	1878.31	3094.04	4289.84	5465.91	6622.49	7759.81	8878.08	9977.54
4	653.55	1889.32	3104.91	4300.57	5476.51	6632.95	7770.14	8888.28	9987.60
5	667.48	1903.07	3118.50	4313.98	5489.75	6646.03	7783.04	8901.01	10000.17
6	684.20	1919.58	3134.79	4330.07	5505.64	6661.71	7798.52	8916.30	10015.26
7	703.70	1938.83	3153.81	4348.85	5524.17	6680.01	7816.59	8934.13	10032.86
8	725.97	1960.83	3175.53	4370.30	5545.35	6700.92	7837.23	8954.50	10052.96
9	751.04	1985.58	3199.97	4394.42	5569.17	6724.44	7860.44	8977.42	10075.58
10	778.88	2013.07	3227.12	4421.23	5595.64	6750.56	7886.23	9002.87	10100.71
11	809.49	2043.31	3256.97	4450.71	5624.74	6779.29	7914.60	9030.87	10128.34
12	842.89	2076.28	3289.53	4482.86	5656.48	6810.63	7945.53	9061.41	10158.48
13	879.05	2112.00	3324.80	4517.68	5690.86	6844.57	7979.03	9094.48	10191.12
14	917.99	2150.45	3362.77	4555.17	5727.87	6881.11	8015.10	9130.08	10226.26
15	959.70	2191.64	3403.44	4595.32	5767.52	6920.25	8053.74	9168.21	10263.90
16	1004.18	2235.56	3446.81	4638.14	5809.79	6961.98	8094.94	9208.88	10304.04
17	1051.42	2282.21	3492.87	4683.62	5854.69	7006.31	8138.69	9252.07	10346.66
18	1101.42	2331.58	3541.62	4731.76	5902.22	7053.23	8185.01	9297.78	10391.78
19	1154.18	2383.68	3593.07	4782.55	5952.37	7102.73	8233.87	9346.02	10439.39
20	1209.69	2438.50	3647.20	4836.00	6005.13	7154.82	8285.29	9396.77	10489.48
21	1267.96	2496.04	3704.01	4892.09	6060.51	7209.49	8339.26	9450.04	10542.06
22	1328.98	2556.29	3763.50	4950.83	6118.50	7266.74	8395.77	9505.82	10597.11
23	1392.74	2619.26	3825.67	5012.21	6179.10	7326.56	8454.82	9564.10	10654.64
24	1459.24	2684.93	3890.52	5076.23	6242.30	7388.96	8516.41	9624.89	10714.63
25	1528.49	2753.30	3958.03	5142.89	6308.11	7453.92	8580.53	9688.18	10777.10
26	1600.46	2824.37	4028.20	5212.17	6376.51	7521.44	8647.18	9753.97	10842.02
27	1675.16	2898.14	4101.04	5284.08	6447.50	7591.52	8716.36	9822.25	10909.41
28	1752.59	2974.59	4176.53	5358.61	6521.08	7664.15	8788.06	9893.01	10979.25
29	1832.74	3053.73	4254.67	5435.76	6597.24	7739.34	8862.27	9966.26	11051.54
30	1915.60	3135.56	4335.46	5515.52	6675.99	7817.07	8938.99	10041.99	11126.28
31	2001.18	3220.06	4418.88	5597.89	6757.30	7897.34	9018.22	10120.19	11203.45
32	2089.46	3307.22	4504.95	5682.86	6841.18	7980.14	9099.96	10200.86	11283.07
33	2180.44	3397.06	4593.65	5770.43	6927.63	8065.47	9184.18	10283.99	11365.11
34	2274.11	3489.55	4684.97	5860.59	7016.64	8153.33	9270.90	10369.58	11449.58
35	2370.48	3584.70	4778.91	5953.34	7108.19	8243.71	9360.11	10457.62	11536.46
36	2469.52	3682.50	4875.47	6048.66	7202.30	8336.60	9451.79	10548.11	11625.76
37	2571.25	3782.94	4974.64	6146.56	7298.94	8432.00	9545.95	10641.04	11717.47
38	2675.64	3886.02	5076.41	6247.03	7398.12	8529.89	9642.58	10736.40	11811.58
39	2782.70	3991.73	5180.77	6350.07	7499.83	8630.29	9741.67	10834.19	11908.09