Z	z*	$E^{(0)}$	$E^{(2)}$	E^{HF}	Z	z*	$E^{(0)}$	$E^{(2)}$	E^{HF}
1	1	-0.5	-0.5	-0.5	51	40.39	-5974	-6274	-6313
2	1.688	-2.848	-2.861	-2.862	52	41.23	-6260	-6572	-6612
3	2.545	-7.289	-7.411	-7.433	53	42.07	-6553	-6877	-6918
4	3.372	-14.21	-14.52	-14.57	54	42.91	-6854	-7189	-7232
5	4.151	-23.69	-24.41	-24.53	55	43.79	-7166	-7510	-7554
6	4.913	-36.20	-37.49	-37.69	56	44.67	-7484	-7839	-7884
7	5.660	-52.07	-54.11	-54.40	57	45.50	-7805	-8174	-8221
8	6.382	-71.28	-74.38	-74.81	58	46.23	-8126	-8517	-8567
9	7.098	-94.45	-98.82	-99.41	59	46.88	-8448	-8866	-8921
10	7.807	-121.9	-127.8	-128.5	60	47.61	-8784	-9224	-9284
11	8.656	-154.0	-160.9	-161.9	61	48.34	-9128	-9592	-9655
12	9.497	-190.4	-198.4	-199.6	62	49.07	-9480	-9968	-10035
13	10.32	-230.6	-240.5	-241.9	63	49.79	-9840	-10352	-10424
14	11.13	-275.3	-287.2	-288.9	64	50.61	-10216	-10748	-10821
15	11.94	-324.6	-338.8	-340.7	65	51.23	-10582	-11147	-11227
16	12.74	-378.5	-395.2	-397.5	66	51.95	-10966	-11557	-11641
17	13.53	-437.4	-456.9	-459.5	67	52.67	-11357	-11976	-12065
18	14.32	-501.4	-523.9	-526.8	68	53.39	-11757	-12405	-12498
19	15.19	-571.3	-595.9	-599.2	69	54.10	-12165	-12842	-12940
20	16.06	-646.2	-673.2	-676.8	70	54.81	-12582	-13288	-13391
21	16.81	-723.8	-755.3	-759.7	71	55.62	-13018	-13747	-13852
22	17.55	-806.6	-843.2	-848.4	72	56.43	-13462	-14214	-14321
23	18.29	-894.8	-936.8	-942.9	73	57.24	-13915	-14690	-14800
24	18.91	-985.0	-1036	-1043	74	58.04	-14377	-15176	-15288
25	19.76	-1088	-1142	-1150	75	58.84	-14847	-15670	-15785
26	20.49	-1192	-1253	-1262	76	59.65	-15326	-16174	-16291
27	21.21	-1303	-1371	-1381	77	60.45	-15814	-16687	-16806
28	21.93	-1419	-1495	-1507	78	61.19	-16301	-17208	-17331
29	22.51	-1537	-1625	-1639	79	61.99	-16806	-17740	-17865
30	23.35	-1670	-1764	-1778	80	62.85	-17331	-18282	-18409
31	24.18	-1809	-1908	-1923	81	63.70	-17862	-18833	-18962
32	25.01	-1954	-2060	-2075	82	64.56	-18402	-19393	-19524
33	25.83	-2106	-2218	-2234	83	65.41	-18951	-19963	-20096
34	26.65	-2264	-2383	-2400	84	66.26	-19509	-20542	-20677
35	27.47	-2429	-2555	-2572	85	67.11	-20075	-21130	-21267
36	28.29	-2600	-2734	-2752	86	67.96	-20652	-21728	-21867
37	29.16	-2780	-2920	-2938	87	68.85	-21241	-22335	-22476
38	30.03	-2967	-3112	-3132	88	69.73	-21840	-22952	-23094
39	30.82	-3155	-3311	-3332	89	70.57	-22438	-23577	-23722
40	31.61	-3350	-3516	-3539	90	71.41	-23045	-24211	-24360
41	32.32	-3546	-3729	-3754	91	72.12	-23639	-24851	-25007
42	33.11	-3755	-3949	-3976	92	72.89	-24254	-25503	-25664
43	33.97	-3976	-4177	-4205	93	73.66	-24878	-26164	-26331
44	34.67	-4193	-4412	-4442	94	74.36	-25499	-26833	-27009
45	35.44	-4422	-4654	-4686	95	75.13	-26142	-27515	-27696
46	36.14	-4652	-4904	-4938	96	75.96	-26805	-28209	-28393
47	36.99	-4903	-5163	-5198	97	76.73	-27466	-28910	-29100
48	37.85	-5161	-5429	-5465	98	77.43	-28124	-29619	-29817
49	38.70	-5424	-5703	-5740	99	78.19	-28804	-30341	-30545
50	39.54	-5695	-5985	-6023	100	78.95	-29493	-31073	-31283