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Capture Cross Section of ^{238}Pu from Persimmon.
Tabulation of Values



los alamos
scientific laboratory

of the University of California

LOS ALAMOS, NEW MEXICO 87544



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Capture Cross Section of ^{238}Pu from Persimmon. Tabulation of Values

by

M. G. Silbert



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CAPTURE CROSS SECTION OF ^{238}Pu FROM PERSIMMON, TABULATION OF VALUES

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ABSTRACT

The capture cross section of ^{238}Pu , measured on the Persimmon nuclear explosion experiment, is presented in tabular form over the energy region from 18 eV to 200 keV.

The neutron cross-section measurements carried out in conjunction with the Persimmon nuclear explosion included thin and thick samples of ^{238}Pu . Fission fragment detectors at the thin sample measured the fission cross section of ^{238}Pu . Moxon-Rae (M-R) gamma-ray detectors at the thick sample measured the gamma-ray output, which was proportional to a sum of the fission and capture cross sections of ^{238}Pu . Subtraction of the fission contribution from the M-R signal yielded a measurement of the neutron radiative capture cross section.

Reference 1 is a formal report of the measurements and includes experimental details. Table I below presents the cross section in point-wise form, each point representing a time (neutron energy) channel in the time-of-flight experiment. Table I lists the neutron energy, E , in electron volts, the capture cross section, S , in barns, and the fractional uncertainty (standard deviation) of the cross section.

REFERENCE

1. M. G. Silbert and J. R. Berreth, Phys. Rev., to be published.

TABLE I. NEUTRON CAPTURE CROSS SECTION OF 238 PU

E (EV)	S (8)	DS/S	E (EV)	S (8)	DS/S	E (EV)	S (8)	DS/S
1.9865E+05	.13	2.096	5.6990E+04	.67	.657	2.6577E+04	1.39	.392
1.9087E+05	.19	1.313	5.5779E+04	.55	.742	2.6189E+04	1.68	.325
1.8355E+05	.20	1.199	5.4606E+04	.71	.491	2.5810E+04	1.22	.423
1.7663E+05	.35	.654	5.3469E+04	.93	.320	2.5439E+04	1.17	.437
1.7010E+05	.35	.635	5.2368E+04	.74	.437	2.5076E+04	1.32	.374
1.6393E+05	.38	.584	5.1300E+04	.61	.486	2.4721E+04	1.47	.340
1.5808E+05	.34	.635	5.0265E+04	.54	.586	2.4373E+04	1.33	.350
1.5255E+05	.18	1.188	4.9261E+04	.64	.560	2.4032E+04	1.27	.342
1.4730E+05	.35	.654	4.8286E+04	.83	.464	2.3699E+04	1.22	.369
1.4231E+05	.31	.785	4.7340E+04	1.03	.360	2.3372E+04	1.18	.430
1.3757E+05	.37	.637	4.6422E+04	.97	.447	2.3052E+04	1.13	.524
1.3307E+05	.29	.778	4.5530E+04	.85	.508	2.2739E+04	1.22	.488
1.2879E+05	.37	.582	4.4664E+04	.81	.498	2.2432E+04	1.21	.479
1.2470E+05	.32	.677	4.3822E+04	.83	.518	2.2131E+04	1.01	.529
1.2081E+05	.45	.507	4.3004E+04	.77	.553	2.1836E+04	1.17	.490
1.1710E+05	.52	.446	4.2208E+04	.54	.764	2.1547E+04	1.59	.380
1.1356E+05	.36	.690	4.1434E+04	.50	.888	2.1263E+04	1.43	.439
1.1017E+05	.49	.556	4.0682E+04	.78	.660	2.0986E+04	1.45	.491
1.0694E+05	.51	.477	3.9949E+04	.92	.569	2.0713E+04	1.30	.487
1.0384E+05	.53	.447	3.9237E+04	.87	.500	2.0446E+04	1.46	.516
1.0088E+05	.37	.724	3.8543E+04	.87	.544	2.0184E+04	1.49	.474
9.8042E+04	.39	.699	3.7867E+04	1.07	.489	1.9927E+04	1.70	.378
9.5323E+04	.34	.736	3.7209E+04	1.17	.405	1.9675E+04	2.39	.269
9.2715E+04	.42	.704	3.6568E+04	.97	.448	1.9428E+04	1.69	.404
9.0212E+04	.56	.516	3.5944E+04	1.04	.442	1.9185E+04	1.21	.517
8.7810E+04	.51	.544	3.5335E+04	1.26	.382	1.8947E+04	1.20	.544
8.5502E+04	.39	.731	3.4742E+04	1.41	.334	1.8713E+04	1.14	.552
8.3284E+04	.40	.774	3.4163E+04	1.35	.336	1.8484E+04	.99	.615
8.1152E+04	.65	.439	3.3599E+04	1.25	.403	1.8259E+04	.87	.846
7.9100E+04	.78	.390	3.3049E+04	1.12	.446	1.8038E+04	1.10	.647
7.7125E+04	.61	.593	3.2512E+04	1.12	.463	1.7820E+04	1.13	.692
7.5223E+04	.66	.514	3.1988E+04	1.00	.447	1.7607E+04	1.08	.903
7.3390E+04	.57	.523	3.1477E+04	.95	.485	1.7398E+04	1.36	.783
7.1624E+04	.52	.615	3.0977E+04	.91	.504	1.7192E+04	1.58	.586
6.9921E+04	.57	.568	3.0490E+04	1.01	.480	1.6990E+04	1.32	.740
6.8278E+04	.50	.636	3.0014E+04	1.30	.403	1.6791E+04	1.10	.790
6.6692E+04	.52	.661	2.9549E+04	1.07	.535	1.6596E+04	1.52	.728
6.5160E+04	.56	.619	2.9095E+04	.88	.632	1.6404E+04	1.30	.945
6.3681E+04	.55	.690	2.8651E+04	.78	.723	1.6216E+04	1.16	.940
6.2252E+04	.54	.674	2.8217E+04	.75	.782	1.6031E+04	1.71	.695
6.0870E+04	.33	1.061	2.7793E+04	.80	.711	1.5849E+04	2.07	.606
5.9534E+04	.56	.582	2.7379E+04	1.10	.515	1.5670E+04	1.70	.761
5.8241E+04	.65	.573	2.6974E+04	.90	.687	1.5494E+04	1.41	1.017

E (EV)	S(B)	DS/S	E (EV)	S(B)	DS/S	E (EV)	S(B)	DS/S
1.5321E+04	1.64	1.097	9.5179E+03	2.95	.253	6.5769E+03	1.92	.553
1.5151E+04	2.31	.824	9.4344E+03	2.81	.249	6.5299E+03	1.90	.561
1.4983E+04	2.18	.692	9.3521E+03	2.29	.296	6.4815E+03	1.82	.570
1.4819E+04	1.98	.623	9.2708E+03	1.95	.389	6.4345E+03	1.97	.535
1.4657E+04	1.74	.646	9.1906E+03	1.63	.451	6.3881E+03	2.26	.564
1.4498E+04	1.37	.727	9.1114E+03	1.78	.474	6.3427E+03	2.29	.558
1.4341E+04	1.36	.860	9.0332E+03	2.05	.445	6.2967E+03	2.75	.427
1.4187E+04	1.10	.874	8.9560E+03	1.73	.511	6.2518E+03	2.25	.489
1.4035E+04	1.34	.699	8.8799E+03	1.51	.465	6.2073E+03	1.42	.895
1.3886E+04	1.76	.556	8.8046E+03	1.69	.407	6.1633E+03	1.44	.776
1.3739E+04	1.94	.502	8.7304E+03	1.75	.409	6.1197E+03	1.31	.722
1.3595E+04	2.11	.446	8.6571E+03	1.49	.577	6.0767E+03	1.81	.551
1.3452E+04	2.16	.417	8.5847E+03	1.98	.498	6.0340E+03	2.57	.425
1.3312E+04	2.85	.353	8.5132E+03	2.16	.443	5.9919E+03	2.76	.388
1.3174E+04	2.95	.321	8.4425E+03	2.51	.389	5.9501E+03	2.60	.400
1.3039E+04	2.56	.416	8.3728E+03	2.30	.395	5.9088E+03	2.35	.434
1.2842E+04	1.30	.581	8.3039E+03	2.52	.387	5.8680E+03	1.99	.488
1.2644E+04	2.38	.420	8.2359E+03	2.60	.382	5.8275E+03	2.16	.423
1.2516E+04	2.79	.368	8.1687E+03	2.20	.394	5.7875E+03	2.57	.429
1.2391E+04	2.80	.386	8.1023E+03	2.23	.431	5.7479E+03	2.09	.558
1.2267E+04	2.52	.448	8.0367E+03	2.17	.432	5.7086E+03	1.95	.627
1.2145E+04	2.31	.406	7.9720E+03	1.87	.509	5.6698E+03	1.39	.902
1.2025E+04	2.16	.452	7.9080E+03	2.01	.510	5.6314E+03	.19	6.302
1.1906E+04	2.08	.480	7.8447E+03	1.98	.555	5.5934E+03	.41	2.823
1.1789E+04	1.85	.521	7.7822E+03	1.65	.783	5.5557E+03	2.65	.397
1.1675E+04	1.86	.560	7.7205E+03	1.70	.858	5.5185E+03	2.23	.315
1.1561E+04	1.97	.548	7.6595E+03	1.66	.794	5.4815E+03	2.91	.357
1.1450E+04	1.87	.489	7.5992E+03	1.48	.765	5.4450E+03	2.54	.414
1.1340E+04	1.86	.411	7.5397E+03	1.57	.707	5.4089E+03	2.19	.483
1.1231E+04	1.94	.392	7.4808E+03	1.95	.523	5.3731E+03	2.31	.472
1.1124E+04	2.04	.400	7.4226E+03	2.10	.544	5.3376E+03	2.39	.451
1.1019E+04	2.22	.395	7.3651E+03	2.21	.557	5.3025E+03	2.11	.309
1.0915E+04	2.16	.406	7.3082E+03	2.09	.574	5.2677E+03	2.76	.368
1.0813E+04	1.75	.527	7.2520E+03	2.09	.555	5.2333E+03	2.67	.406
1.0712E+04	2.35	.368	7.1965E+03	2.09	.572	5.1993E+03	2.38	.412
1.0612E+04	2.31	.367	7.1416E+03	1.92	.583	5.1655E+03	2.38	.425
1.0514E+04	2.25	.367	7.0873E+03	2.00	.469	5.1321E+03	2.44	.471
1.0417E+04	2.20	.363	7.0336E+03	2.00	.473	5.0990E+03	2.26	.548
1.0321E+04	2.20	.371	6.9806E+03	1.66	.619	5.0662E+03	2.31	.505
1.0227E+04	2.24	.330	6.9281E+03	1.88	.543	5.0338E+03	2.30	.487
1.0134E+04	2.17	.326	6.8763E+03	2.55	.457	5.0016E+03	2.39	.536
1.0043E+04	1.85	.421	6.8250E+03	2.92	.436	4.9698E+03	2.39	.525
9.9012E+03	1.64	.314	6.7742E+03	2.74	.403	4.9382E+03	2.61	.455
9.7750E+03	2.00	.395	6.7241E+03	2.36	.442	4.9070E+03	2.00	.413
9.6881E+03	1.98	.418	6.6745E+03	2.01	.546	4.8760E+03	2.65	.345
9.6024E+03	2.32	.337	6.6254E+03	1.68	.654	4.8454E+03	2.13	.403

E (EV)	S (8)	DS/S	E (EV)	S (8)	DS/S	E (EV)	S (8)	DS/S
4.8150E+03	2.45	.471	3.6768E+03	3.63	.370	2.8992E+03	2.40	.725
4.7849E+03	2.18	.538	3.6567E+03	3.53	.359	2.8851E+03	2.48	.593
4.7551E+03	2.41	.498	3.6368E+03	3.26	.386	2.8712E+03	2.20	.443
4.7256E+03	2.64	.442	3.6171E+03	3.36	.370	2.8573E+03	2.63	.578
4.6964E+03	2.35	.522	3.5974E+03	3.68	.330	2.8436E+03	1.52	1.112
4.6674E+03	2.43	.531	3.5780E+03	3.77	.320	2.8299E+03	2.80	.422
4.6387E+03	2.50	.513	3.5587E+03	4.13	.298	2.8163E+03	6.12	.276
4.6102E+03	2.64	.438	3.5396E+03	5.02	.218	2.8029E+03	6.87	.247
4.5820E+03	2.80	.435	3.5206E+03	5.44	.224	2.7895E+03	6.08	.282
4.5541E+03	2.99	.427	3.5018E+03	4.77	.262	2.7762E+03	5.61	.278
4.5265E+03	2.96	.453	3.4831E+03	4.22	.305	2.7630E+03	5.35	.249
4.4990E+03	3.16	.419	3.4646E+03	3.76	.339	2.7499E+03	4.15	.322
4.4719E+03	3.60	.416	3.4463E+03	3.02	.442	2.7369E+03	2.27	.631
4.4449E+03	3.96	.427	3.4280E+03	3.12	.414	2.7240E+03	3.36	.391
4.4182E+03	3.24	.413	3.4099E+03	3.67	.378	2.7112E+03	4.38	.296
4.3918E+03	3.08	.411	3.3920E+03	3.67	.368	2.6985E+03	3.44	.373
4.3656E+03	3.05	.508	3.3742E+03	2.34	.610	2.6859E+03	2.36	.386
4.3396E+03	2.60	.647	3.3566E+03	3.01	.467	2.6733E+03	2.09	.415
4.3139E+03	2.39	.584	3.3390E+03	4.80	.283	2.6609E+03	2.62	.353
4.2884E+03	2.51	.454	3.3216E+03	4.53	.326	2.6485E+03	4.76	.320
4.2631E+03	2.44	.555	3.3044E+03	3.86	.321	2.6362E+03	2.83	.426
4.2380E+03	3.42	.425	3.2873E+03	3.82	.364	2.6240E+03	2.36	.428
4.2131E+03	4.05	.342	3.2703E+03	3.76	.354	2.6119E+03	4.83	.321
4.1885E+03	3.83	.344	3.2534E+03	2.51	.463	2.5999E+03	5.77	.263
4.1641E+03	3.10	.447	3.2367E+03	3.95	.309	2.5879E+03	5.25	.278
4.1399E+03	3.55	.443	3.2201E+03	5.32	.262	2.5760E+03	2.70	.404
4.1159E+03	4.82	.302	3.2037E+03	4.73	.287	2.5642E+03	2.12	.597
4.0921E+03	5.15	.300	3.1873E+03	3.76	.349	2.5525E+03	1.59	.871
4.0686E+03	4.77	.291	3.1711E+03	3.47	.418	2.5409E+03	2.53	.537
4.0452E+03	3.77	.320	3.1550E+03	3.39	.391	2.5294E+03	2.81	.392
4.0220E+03	3.08	.437	3.1391E+03	3.68	.341	2.5179E+03	4.15	.346
3.9991E+03	2.80	.494	3.1232E+03	3.78	.331	2.5065E+03	4.12	.332
3.9763E+03	3.53	.406	3.1075E+03	3.43	.412	2.4952E+03	2.32	.379
3.9537E+03	3.94	.383	3.0919E+03	3.79	.382	2.4840E+03	2.81	.502
3.9313E+03	3.75	.412	3.0764E+03	3.99	.342	2.4728E+03	2.47	.502
3.9091E+03	3.76	.378	3.0610E+03	5.09	.268	2.4617E+03	2.35	.483
3.8871E+03	3.15	.437	3.0457E+03	5.06	.254	2.4507E+03	2.46	.565
3.8652E+03	2.89	.400	3.0306E+03	3.50	.352	2.4398E+03	2.95	.530
3.8436E+03	3.40	.405	3.0156E+03	3.22	.444	2.4289E+03	2.80	.392
3.8221E+03	3.52	.409	3.0006E+03	4.27	.312	2.4181E+03	4.15	.336
3.8009E+03	3.17	.415	2.9858E+03	3.21	.324	2.4074E+03	4.61	.295
3.7797E+03	3.05	.440	2.9711E+03	3.77	.341	2.3968E+03	4.84	.318
3.7588E+03	2.99	.422	2.9565E+03	3.27	.385	2.3862E+03	4.82	.345
3.7381E+03	3.21	.325	2.9421E+03	3.33	.338	2.3757E+03	4.46	.353
3.7175E+03	3.50	.364	2.9277E+03	3.38	.337	2.3652E+03	2.82	.403
3.6971E+03	3.85	.346	2.9134E+03	2.94	.438	2.3549E+03	2.68	.409

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
2.3446E+03	3.68	.353	1.9351E+03	2.62	.462	1.6242E+03	4.49	.226
2.3343E+03	3.39	.364	1.9274E+03	3.18	.390	1.6183E+03	5.75	.209
2.3242E+03	3.00	.421	1.9198E+03	3.78	.320	1.6125E+03	6.71	.191
2.3141E+03	4.02	.318	1.9122E+03	3.70	.329	1.6066E+03	7.90	.176
2.3040E+03	3.71	.332	1.9047E+03	3.07	.366	1.6008E+03	7.69	.184
2.2941E+03	2.87	.422	1.8972E+03	2.48	.542	1.5950E+03	5.92	.247
2.2841E+03	2.29	.561	1.8897E+03	2.03	.711	1.5893E+03	4.53	.295
2.2743E+03	3.57	.318	1.8823E+03	2.11	.567	1.5836E+03	4.98	.238
2.2645E+03	5.82	.219	1.8749E+03	4.06	.284	1.5779E+03	5.40	.216
2.2548E+03	5.95	.224	1.8676E+03	.79	2.249	1.5722E+03	5.36	.232
2.2452E+03	6.74	.203	1.8603E+03	1.86	.859	1.5666E+03	4.82	.267
2.2356E+03	6.75	.231	1.8531E+03	5.81	.268	1.5610E+03	7.82	.306
2.2260E+03	6.29	.245	1.8459E+03	5.30	.270	1.5555E+03	7.97	.381
2.2166E+03	4.99	.254	1.8388E+03	3.42	.396	1.5499E+03	7.05	.515
2.2072E+03	5.47	.269	1.8317E+03	3.14	.399	1.5444E+03	1.38	.769
2.1978E+03	4.90	.273	1.8246E+03	2.77	.412	1.5389E+03	1.60	.673
2.1885E+03	4.44	.278	1.8176E+03	1.61	.778	1.5335E+03	7.34	.465
2.1793E+03	4.38	.313	1.8106E+03	2.75	.433	1.5281E+03	7.77	.314
2.1701E+03	4.26	.366	1.8036E+03	3.79	.344	1.5227E+03	7.98	.371
2.1610E+03	5.40	.243	1.7967E+03	3.84	.382	1.5173E+03	4.66	.314
2.1519E+03	5.33	.276	1.7898E+03	4.23	.319	1.5120E+03	6.08	.239
2.1429E+03	4.55	.356	1.7830E+03	3.67	.318	1.5067E+03	5.90	.234
2.1340E+03	4.36	.356	1.7762E+03	2.07	.607	1.5014E+03	4.76	.272
2.1251E+03	5.06	.271	1.7695E+03	.72	1.818	1.4962E+03	4.38	.286
2.1163E+03	5.12	.254	1.7628E+03	.90	1.392	1.4910E+03	7.36	.387
2.1075E+03	4.56	.308	1.7561E+03	1.17	.972	1.4858E+03	7.18	.448
2.0988E+03	3.63	.405	1.7494E+03	1.53	.750	1.4806E+03	4.86	.309
2.0901E+03	3.30	.473	1.7428E+03	2.25	.535	1.4755E+03	5.48	.292
2.0815E+03	4.42	.335	1.7363E+03	3.21	.457	1.4703E+03	7.74	.417
2.0729E+03	5.19	.266	1.7298E+03	3.46	.455	1.4653E+03	7.54	.453
2.0644E+03	5.88	.224	1.7233E+03	3.30	.452	1.4602E+03	4.68	.387
2.0560E+03	5.01	.268	1.7168E+03	2.00	.633	1.4552E+03	5.17	.343
2.0476E+03	3.88	.381	1.7104E+03	1.45	.809	1.4502E+03	7.13	.425
2.0392E+03	4.19	.364	1.7040E+03	3.35	.388	1.4452E+03	7.43	.472
2.0309E+03	3.97	.344	1.6977E+03	4.31	.335	1.4402E+03	7.22	.507
2.0227E+03	3.46	.378	1.6914E+03	4.94	.276	1.4353E+03	1.46	.709
2.0144E+03	3.66	.385	1.6851E+03	4.53	.294	1.4304E+03	1.45	.645
2.0063E+03	3.78	.351	1.6789E+03	5.16	.268	1.4255E+03	7.32	.439
1.9982E+03	4.32	.307	1.6727E+03	6.00	.252	1.4207E+03	7.41	.413
1.9901E+03	3.88	.348	1.6665E+03	5.10	.253	1.4158E+03	7.21	.430
1.9821E+03	3.13	.492	1.6603E+03	4.06	.299	1.4110E+03	7.02	.506
1.9742E+03	2.00	.762	1.6542E+03	3.32	.340	1.4062E+03	1.76	.508
1.9663E+03	1.24	1.147	1.6482E+03	2.57	.450	1.4015E+03	1.07	.906
1.9584E+03	1.07	1.306	1.6422E+03	2.86	.437	1.3967E+03	7.07	.557
1.9506E+03	1.57	.893	1.6361E+03	3.18	.339	1.3920E+03	7.06	.395
1.9428E+03	2.08	.610	1.6302E+03	2.89	.348	1.3873E+03	7.60	.427

E (EV)	S (B)	OS/S	E (EV)	S (B)	OS/S	E (EV)	S (B)	OS/S
1.3827E+03	3.71	.301	1.1876E+03	12.82	.194	1.0340E+03	9.37	.195
1.3781E+03	5.21	.231	1.1839E+03	10.84	.201	1.0310E+03	11.11	.184
1.3734E+03	4.32	.258	1.1802E+03	8.54	.222	1.0280E+03	11.55	.180
1.3688E+03	3.35	.342	1.1766E+03	6.41	.283	1.0251E+03	12.00	.156
1.3643E+03	2.59	.466	1.1729E+03	4.10	.398	1.0221E+03	11.37	.149
1.3597E+03	2.72	.417	1.1693E+03	2.59	.514	1.0192E+03	7.48	.164
1.3552E+03	4.09	.294	1.1657E+03	1.71	.646	1.0162E+03	7.60	.181
1.3507E+03	3.92	.329	1.1621E+03	1.53	.693	1.0133E+03	7.36	.179
1.3462E+03	4.11	.330	1.1585E+03	1.40	.780	1.0104E+03	9.70	.159
1.3418E+03	8.10	.219	1.1549E+03	.56	2.733	1.0075E+03	8.54	.164
1.3373E+03	7.60	.197	1.1514E+03	8.08	.398	1.0046E+03	7.27	.181
1.3329E+03	7.72	.182	1.1479E+03	7.12	.345	1.0017E+03	8.15	.180
1.3285E+03	7.22	.187	1.1444E+03	6.75	.293	9.9881E+02	7.23	.289
1.3242E+03	6.42	.184	1.1409E+03	6.39	.291	9.9572E+02	4.56	.228
1.3198E+03	5.46	.212	1.1374E+03	6.97	.245	9.9288E+02	7.01	.153
1.3155E+03	3.70	.298	1.1339E+03	6.54	.226	9.9005E+02	6.16	.202
1.3112E+03	2.83	.363	1.1305E+03	4.52	.285	9.8724E+02	6.35	.177
1.3069E+03	2.98	.390	1.1271E+03	2.75	.397	9.8443E+02	7.63	.158
1.3027E+03	3.77	.358	1.1237E+03	2.91	.332	9.8164E+02	7.58	.183
1.2984E+03	3.06	.431	1.1203E+03	4.27	.267	9.7886E+02	5.99	.226
1.2942E+03	2.82	.400	1.1169E+03	3.61	.328	9.7609E+02	4.15	.293
1.2900E+03	5.39	.232	1.1135E+03	3.59	.395	9.7333E+02	3.45	.320
1.2858E+03	7.91	.206	1.1102E+03	3.06	.390	9.7059E+02	2.08	.483
1.2817E+03	8.66	.208	1.1068E+03	3.30	.342	9.6786E+02	1.28	.716
1.2775E+03	6.74	.261	1.1035E+03	3.82	.393	9.6514E+02	1.23	.740
1.2734E+03	3.56	.475	1.1002E+03	3.20	.461	9.6243E+02	.95	1.021
1.2693E+03	6.63	.248	1.0969E+03	2.37	.511	9.5973E+02	1.44	.615
1.2652E+03	6.87	.251	1.0936E+03	2.84	.435	9.5704E+02	1.56	.542
1.2612E+03	4.88	.346	1.0903E+03	3.08	.470	9.5436E+02	1.82	.481
1.2571E+03	4.63	.344	1.0871E+03	1.63	1.022	9.5170E+02	1.89	.566
1.2531E+03	4.64	.193	1.0839E+03	5.66	.326	9.4904E+02	2.07	.490
1.2491E+03	2.42	.413	1.0807E+03	6.58	.254	9.4640E+02	2.10	.408
1.2451E+03	1.54	.664	1.0774E+03	5.95	.300	9.4377E+02	2.34	.385
1.2372E+03	.87	1.301	1.0742E+03	6.68	.273	9.4115E+02	2.90	.339
1.2333E+03	1.80	.743	1.0711E+03	8.85	.216	9.3854E+02	6.96	.173
1.2294E+03	2.05	.635	1.0679E+03	10.04	.188	9.3594E+02	9.42	.153
1.2255E+03	2.14	.535	1.0648E+03	8.59	.189	9.3335E+02	8.52	.133
1.2216E+03	2.16	.554	1.0616E+03	7.37	.176	9.3078E+02	8.28	.173
1.2177E+03	2.06	.582	1.0585E+03	6.31	.216	9.2821E+02	8.44	.158
1.2139E+03	1.38	.762	1.0554E+03	4.92	.275	9.2565E+02	7.40	.156
1.2101E+03	2.70	.417	1.0523E+03	2.78	.422	9.2311E+02	5.42	.204
1.2063E+03	5.89	.229	1.0492E+03	4.03	.327	9.2057E+02	3.72	.247
1.2025E+03	9.45	.182	1.0462E+03	4.35	.292	9.1805E+02	2.57	.400
1.1988E+03	10.77	.186	1.0431E+03	2.99	.375	9.1553E+02	1.81	.591
1.1950E+03	12.95	.175	1.0401E+03	2.23	.700	9.1303E+02	.98	.948
1.1913E+03	13.76	.181	1.0370E+03	7.43	.290	9.1053E+02	.86	1.091

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
9.0805E+02	1.18	.726	8.0394E+02	11.96	.123	7.1677E+02	14.15	.131
9.0558E+02	1.44	.712	8.0188E+02	11.72	.119	7.1503E+02	15.36	.130
9.0311E+02	1.31	.823	7.9983E+02	12.06	.129	7.1331E+02	21.53	.152
9.0066E+02	1.27	.726	7.9779E+02	10.80	.137	7.1158E+02	20.73	.258
8.9822E+02	1.80	.439	7.9575E+02	8.95	.135	7.0987E+02	19.31	.253
8.9578E+02	4.92	.189	7.9372E+02	9.10	.141	7.0816E+02	17.94	.282
8.9336E+02	5.71	.185	7.9170E+02	9.06	.142	7.0645E+02	15.37	.316
8.9095E+02	5.79	.193	7.8968E+02	7.76	.148	7.0476E+02	13.25	.334
8.8854E+02	6.15	.182	7.8768E+02	6.91	.229	7.0306E+02	5.05	.698
8.8615E+02	6.59	.163	7.8568E+02	8.68	.252	7.0138E+02	7.90	.261
8.8376E+02	9.12	.138	7.8369E+02	7.39	.270	6.9970E+02	7.46	.220
8.8139E+02	12.18	.125	7.8171E+02	6.40	.307	6.9803E+02	7.39	.190
8.7902E+02	17.57	.105	7.7973E+02	6.60	.304	6.9636E+02	7.02	.179
8.7667E+02	19.57	.119	7.7776E+02	5.71	.351	6.9470E+02	9.23	.142
8.7432E+02	17.64	.126	7.7580E+02	3.75	.453	6.9304E+02	17.88	.122
8.7199E+02	16.65	.137	7.7385E+02	1.81	.838	6.9139E+02	19.15	.106
8.6966E+02	14.24	.171	7.7190E+02	1.68	.497	6.8975E+02	19.53	.103
8.6734E+02	11.11	.208	7.6996E+02	1.18	.659	6.8811E+02	19.74	.100
8.6503E+02	8.09	.261	7.6803E+02	.68	1.096	6.8648E+02	19.31	.100
8.6273E+02	3.51	.471	7.6611E+02	1.03	.732	6.8485E+02	13.89	.119
8.6044E+02	3.44	.485	7.6419E+02	1.20	.669	6.8323E+02	9.56	.142
8.5816E+02	2.79	.575	7.6228E+02	1.37	.554	6.8162E+02	7.84	.155
8.5588E+02	2.15	.693	7.6038E+02	1.30	.551	6.8001E+02	7.24	.151
8.5362E+02	1.12	1.242	7.5848E+02	1.20	.603	6.7841E+02	6.79	.139
8.5137E+02	2.08	.556	7.5659E+02	.93	.716	6.7681E+02	7.00	.142
8.4912E+02	2.16	.457	7.5471E+02	2.02	.338	6.7522E+02	7.17	.133
8.4688E+02	1.89	.444	7.5284E+02	2.79	.278	6.7363E+02	6.61	.137
8.4466E+02	2.08	.412	7.5097E+02	2.68	.282	6.7205E+02	4.41	.261
8.4244E+02	2.27	.366	7.4911E+02	2.73	.336	6.7047E+02	6.87	.281
8.4023E+02	2.50	.337	7.4726E+02	2.67	.374	6.6890E+02	9.40	.175
8.3803E+02	3.49	.241	7.4541E+02	8.72	.135	6.6734E+02	11.21	.169
8.3583E+02	4.92	.195	7.4357E+02	13.33	.105	6.6578E+02	13.46	.150
8.3365E+02	5.64	.187	7.4174E+02	17.57	.108	6.6423E+02	19.50	.137
8.3147E+02	5.37	.192	7.3991E+02	20.06	.098	6.6268E+02	16.40	.148
8.2931E+02	6.45	.179	7.3809E+02	22.25	.101	6.6114E+02	12.96	.147
8.2715E+02	7.10	.182	7.3628E+02	21.46	.102	6.5960E+02	11.24	.149
8.2500E+02	6.31	.199	7.3447E+02	17.20	.099	6.5807E+02	9.16	.140
8.2285E+02	5.56	.184	7.3267E+02	11.00	.123	6.5654E+02	6.43	.144
8.2072E+02	4.40	.204	7.3088E+02	5.72	.159	6.5502E+02	4.48	.191
8.1859E+02	4.15	.191	7.2909E+02	4.15	.198	6.5351E+02	3.56	.226
8.1648E+02	4.13	.217	7.2731E+02	2.54	.278	6.5200E+02	2.88	.276
8.1437E+02	5.16	.187	7.2554E+02	1.75	.457	6.5049E+02	2.68	.342
8.1227E+02	6.38	.170	7.2377E+02	1.93	.446	6.4899E+02	2.83	.355
8.1017E+02	9.15	.124	7.2201E+02	2.31	.359	6.4750E+02	3.01	.341
8.0809E+02	11.14	.111	7.2026E+02	1.19	1.150	6.4601E+02	2.88	.334
8.0601E+02	11.75	.118	7.1851E+02	9.59	.188	6.4452E+02	3.26	.247

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
6.4304E+02	3.87	.604	5.8014E+02	8.81	.128	5.2603E+02	7.31	.367
6.4157E+02	7.11	.193	5.7887E+02	9.08	.142	5.2474E+02	7.20	.270
6.4010E+02	8.51	.172	5.7761E+02	9.32	.139	5.2385E+02	7.89	.116
6.3863E+02	9.63	.160	5.7636E+02	8.62	.143	5.2277E+02	7.76	.115
6.3718E+02	10.99	.166	5.7511E+02	8.72	.122	5.2169E+02	11.00	.116
6.3572E+02	11.68	.178	5.7386E+02	8.52	.121	5.2061E+02	12.61	.118
6.3427E+02	10.56	.173	5.7262E+02	7.78	.128	5.1953E+02	14.49	.167
6.3283E+02	9.92	.169	5.7138E+02	6.40	.142	5.1846E+02	14.11	.163
6.3139E+02	10.28	.162	5.7014E+02	4.67	.181	5.1740E+02	12.71	.183
6.2996E+02	9.51	.162	5.6891E+02	3.48	.261	5.1633E+02	11.59	.195
6.2853E+02	8.43	.167	5.6769E+02	3.18	.293	5.1527E+02	9.26	.217
6.2710E+02	6.80	.164	5.6646E+02	3.05	.349	5.1421E+02	6.28	.277
6.2568E+02	5.25	.186	5.6524E+02	2.24	.483	5.1316E+02	3.03	.410
6.2427E+02	4.29	.213	5.6403E+02	2.35	.386	5.1211E+02	3.49	.267
6.2285E+02	3.65	.256	5.6282E+02	2.32	.343	5.1106E+02	2.91	.274
6.2145E+02	3.68	.264	5.6161E+02	2.27	.342	5.1001E+02	3.12	.300
6.2005E+02	4.97	.182	5.6041E+02	1.80	.427	5.0897E+02	3.10	.271
6.1865E+02	7.23	.146	5.5921E+02	1.78	.430	5.0793E+02	2.82	.296
6.1726E+02	9.44	.142	5.5801E+02	1.99	.421	5.0690E+02	2.64	.302
6.1587E+02	9.80	.134	5.5682E+02	2.14	.387	5.0587E+02	2.66	.306
6.1449E+02	10.32	.132	5.5563E+02	2.38	.312	5.0484E+02	2.73	.313
6.1312E+02	11.00	.128	5.5445E+02	3.00	.268	5.0381E+02	2.37	.343
6.1174E+02	9.53	.130	5.5327E+02	2.33	.355	5.0279E+02	2.46	.320
6.1037E+02	7.76	.138	5.5209E+02	2.63	.302	5.0177E+02	2.40	.326
6.0901E+02	6.21	.156	5.5092E+02	3.19	.276	5.0075E+02	2.33	.334
6.0765E+02	5.36	.176	5.4975E+02	2.92	.283	4.9974E+02	3.01	.237
6.0630E+02	5.51	.193	5.4858E+02	2.88	.293	4.9873E+02	4.28	.223
6.0495E+02	5.92	.198	5.4742E+02	3.12	.283	4.9772E+02	7.43	.157
6.0360E+02	5.61	.213	5.4626E+02	3.08	.261	4.9672E+02	9.55	.141
6.0226E+02	6.16	.174	5.4511E+02	3.05	.261	4.9572E+02	10.11	.142
6.0093E+02	6.75	.142	5.4396E+02	4.42	.176	4.9472E+02	9.46	.135
5.9959E+02	9.25	.122	5.4281E+02	8.74	.124	4.9373E+02	9.29	.130
5.9827E+02	13.77	.118	5.4167E+02	10.80	.118	4.9273E+02	6.24	.169
5.9694E+02	14.72	.117	5.4053E+02	11.13	.114	4.9175E+02	3.93	.223
5.9562E+02	15.30	.112	5.3939E+02	11.41	.113	4.9076E+02	3.24	.239
5.9431E+02	15.90	.112	5.3826E+02	11.10	.118	4.8978E+02	2.72	.300
5.9300E+02	14.97	.114	5.3713E+02	8.77	.117	4.8880E+02	2.08	.357
5.9169E+02	16.93	.107	5.3600E+02	5.76	.173	4.8782E+02	1.70	.399
5.9039E+02	18.34	.109	5.3488E+02	3.83	.208	4.8684E+02	1.92	.374
5.8910E+02	18.01	.114	5.3376E+02	2.51	.308	4.8587E+02	1.89	.437
5.8780E+02	17.29	.115	5.3265E+02	2.23	.330	4.8490E+02	1.69	.484
5.8651E+02	18.13	.110	5.3153E+02	2.24	.304	4.8394E+02	1.53	.522
5.8523E+02	18.82	.107	5.3043E+02	2.26	.351	4.8298E+02	1.27	.568
5.8395E+02	15.79	.110	5.2932E+02	2.62	.389	4.8202E+02	1.09	.713
5.8267E+02	12.77	.107	5.2822E+02	2.26	.438	4.8106E+02	.98	.769
5.8140E+02	10.09	.120	5.2712E+02	2.44	.377	4.8010E+02	.81	.918

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
4.7915E+02	.81	1.106	4.3828E+02	1.43	.522	4.0242E+02	2.03	.425
4.7820E+02	.69	1.285	4.3745E+02	1.42	.572	4.0169E+02	2.16	.413
4.7726E+02	.86	3.502	4.3662E+02	1.22	.716	4.0096E+02	2.16	.368
4.7632E+02	2.12	.501	4.3580E+02	1.17	.779	4.0024E+02	1.85	.414
4.7538E+02	8.90	.161	4.3497E+02	1.17	.776	3.9951E+02	1.92	.408
4.7444E+02	18.62	.110	4.3415E+02	1.11	.675	3.9879E+02	2.58	.332
4.7350E+02	21.42	.111	4.3333E+02	1.00	.821	3.9807E+02	2.13	.288
4.7257E+02	22.02	.106	4.3252E+02	1.12	.750	3.9735E+02	2.74	.290
4.7165E+02	22.71	.105	4.3170E+02	1.50	.568	3.9663E+02	2.68	.313
4.7072E+02	19.52	.105	4.3089E+02	1.82	.473	3.9592E+02	2.24	.440
4.6980E+02	13.80	.109	4.3008E+02	2.27	.529	3.9521E+02	2.47	.416
4.6887E+02	9.92	.166	4.2928E+02	17.86	.162	3.9450E+02	2.89	.308
4.6796E+02	21.01	.131	4.2848E+02	29.92	.132	3.9379E+02	5.79	.193
4.6704E+02	28.48	.120	4.2767E+02	32.87	.136	3.9308E+02	15.79	.103
4.6613E+02	35.81	.112	4.2687E+02	34.35	.148	3.9238E+02	21.69	.106
4.6522E+02	36.93	.117	4.2608E+02	33.17	.142	3.9167E+02	23.86	.108
4.6431E+02	37.90	.119	4.2528E+02	26.46	.158	3.9097E+02	24.19	.108
4.6341E+02	37.85	.121	4.2449E+02	16.53	.162	3.9027E+02	22.95	.106
4.6250E+02	38.10	.126	4.2370E+02	10.77	.183	3.8958E+02	15.75	.119
4.6160E+02	36.80	.128	4.2291E+02	6.84	.202	3.8888E+02	9.72	.128
4.6071E+02	32.71	.123	4.2212E+02	15.24	.202	3.8819E+02	6.70	.154
4.5981E+02	29.43	.128	4.2134E+02	24.66	.222	3.8750E+02	5.25	.191
4.5892E+02	26.47	.129	4.2055E+02	31.33	.194	3.8681E+02	3.65	.239
4.5803E+02	17.42	.166	4.1977E+02	31.21	.210	3.8612E+02	3.43	.246
4.5715E+02	10.63	.146	4.1900E+02	31.23	.214	3.8543E+02	3.45	.242
4.5626E+02	5.62	.165	4.1822E+02	26.68	.250	3.8475E+02	3.12	.311
4.5538E+02	3.97	.221	4.1745E+02	15.10	.322	3.8407E+02	2.57	.399
4.5450E+02	3.00	.283	4.1668E+02	11.75	.306	3.8338E+02	2.19	.441
4.5363E+02	2.70	.321	4.1591E+02	7.87	.236	3.8270E+02	1.89	.462
4.5275E+02	2.62	.338	4.1514E+02	5.07	.285	3.8203E+02	2.28	.395
4.5188E+02	2.93	.357	4.1437E+02	3.13	.299	3.8135E+02	2.32	.479
4.5101E+02	4.88	.270	4.1361E+02	2.25	.342	3.8068E+02	2.09	.572
4.5015E+02	5.66	.263	4.1285E+02	2.54	.297	3.8001E+02	2.27	.411
4.4928E+02	5.53	.310	4.1209E+02	3.57	.228	3.7934E+02	2.59	.390
4.4842E+02	5.63	.311	4.1134E+02	7.16	.144	3.7867E+02	2.13	.549
4.4756E+02	4.98	.330	4.1058E+02	17.45	.092	3.7800E+02	1.59	.735
4.4671E+02	3.12	.431	4.0983E+02	23.79	.088	3.7734E+02	1.45	.845
4.4585E+02	1.27	.861	4.0908E+02	26.05	.089	3.7668E+02	1.69	.729
4.4500E+02	.82	1.031	4.0833E+02	25.59	.093	3.7601E+02	2.00	.510
4.4415E+02	.51	1.589	4.0758E+02	24.08	.091	3.7536E+02	1.66	.536
4.4331E+02	.49	1.615	4.0684E+02	19.18	.102	3.7470E+02	1.43	.607
4.4246E+02	.94	.821	4.0610E+02	12.26	.102	3.7404E+02	2.09	.434
4.4162E+02	.90	.917	4.0536E+02	7.38	.146	3.7339E+02	1.97	.431
4.4078E+02	.99	.891	4.0462E+02	4.41	.184	3.7274E+02	1.56	.605
4.3994E+02	1.29	.740	4.0389E+02	2.56	.291	3.7208E+02	1.68	.549
4.3911E+02	1.38	.629	4.0315E+02	1.95	.396	3.7143E+02	2.51	.364

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	LS/S
3.7079E+02	6.75	.193	3.4275E+02	1.87	.613	3.1675E+02	6.71	.174
3.7014E+02	20.56	.118	3.4160E+02	2.04	.444	3.1624E+02	5.16	.211
3.6950E+02	29.17	.107	3.4103E+02	2.20	.429	3.1573E+02	5.10	.244
3.6886E+02	31.91	.122	3.3989E+02	2.50	.397	3.1522E+02	4.51	.258
3.6822E+02	31.67	.127	3.3932E+02	3.67	.280	3.1471E+02	4.25	.267
3.6758E+02	27.19	.118	3.3876E+02	8.89	.211	3.1421E+02	4.41	.299
3.6694E+02	22.08	.120	3.3819E+02	21.31	.246	3.1371E+02	4.59	.292
3.6630E+02	15.99	.123	3.3763E+02	31.04	.143	3.1320E+02	4.47	.260
3.6567E+02	9.28	.134	3.3707E+02	31.15	.143	3.1270E+02	4.66	.258
3.6504E+02	4.45	.191	3.3651E+02	30.55	.144	3.1220E+02	4.62	.220
3.6441E+02	2.69	.326	3.3595E+02	26.83	.141	3.1170E+02	4.34	.223
3.6378E+02	2.35	.387	3.3540E+02	22.16	.142	3.1120E+02	4.16	.231
3.6315E+02	2.40	.389	3.3484E+02	15.59	.148	3.1071E+02	3.97	.241
3.6252E+02	1.87	.526	3.3429E+02	9.50	.166	3.1021E+02	3.21	.309
3.6190E+02	1.63	.558	3.3374E+02	6.81	.190	3.0972E+02	3.00	.314
3.6128E+02	2.24	.383	3.3318E+02	5.48	.205	3.0923E+02	2.98	.350
3.6066E+02	2.78	.327	3.3263E+02	4.49	.222	3.0874E+02	3.52	.271
3.6004E+02	2.76	.313	3.3208E+02	3.75	.243	3.0824E+02	3.85	.300
3.5942E+02	2.48	.368	3.3154E+02	2.77	.373	3.0775E+02	4.07	.319
3.5880E+02	2.53	.352	3.3099E+02	2.21	.560	3.0727E+02	5.66	.209
3.5819E+02	2.89	.309	3.3045E+02	2.57	.425	3.0678E+02	7.31	.251
3.5758E+02	3.11	.321	3.2990E+02	2.78	.380	3.0629E+02	16.85	.236
3.5696E+02	2.91	.421	3.2936E+02	2.32	.500	3.0581E+02	15.37	.307
3.5635E+02	2.38	.480	3.2882E+02	3.32	.418	3.0533E+02	17.03	.286
3.5575E+02	2.47	.417	3.2828E+02	7.83	.571	3.0484E+02	13.81	.321
3.5514E+02	2.01	.497	3.2774E+02	44.14	.149	3.0436E+02	11.80	.336
3.5453E+02	1.62	.676	3.2721E+02	47.83	.151	3.0388E+02	8.32	.401
3.5393E+02	1.56	.703	3.2667E+02	46.90	.155	3.0340E+02	7.95	.309
3.5333E+02	1.32	.728	3.2614E+02	46.45	.153	3.0292E+02	5.54	.341
3.5273E+02	1.18	.727	3.2560E+02	42.16	.144	3.0245E+02	7.00	.288
3.5213E+02	1.37	.628	3.2507E+02	29.62	.179	3.0197E+02	9.58	.249
3.5153E+02	1.81	.476	3.2454E+02	19.47	.218	3.0150E+02	-10.12	.321
3.5093E+02	1.94	.436	3.2401E+02	12.38	.186	3.0102E+02	-20.65	.921
3.5034E+02	1.72	.484	3.2349E+02	10.85	.156	3.0055E+02	67.94	.386
3.4975E+02	1.61	.517	3.2296E+02	15.06	.131	3.0008E+02	60.57	.443
3.4916E+02	1.54	.548	3.2244E+02	22.61	.129	2.9961E+02	56.07	.427
3.4857E+02	1.45	.594	3.2191E+02	67.74	.118	2.9914E+02	34.76	.586
3.4798E+02	1.74	.555	3.2139E+02	89.71	.115	2.9867E+02	18.00	.970
3.4739E+02	2.08	.421	3.2087E+02	91.33	.119	2.9821E+02	14.23	.752
3.4680E+02	2.25	.406	3.2035E+02	88.90	.121	2.9774E+02	14.38	.438
3.4622E+02	2.17	.447	3.1983E+02	85.76	.119	2.9727E+02	4.03	1.284
3.4564E+02	1.86	.529	3.1931E+02	62.89	.117	2.9681E+02	1.81	1.837
3.4506E+02	1.86	.531	3.1880E+02	39.41	.127	2.9635E+02	2.65	.805
3.4448E+02	2.02	.469	3.1828E+02	25.14	.136	2.9589E+02	4.55	.359
3.4390E+02	2.07	.489	3.1777E+02	15.44	.135	2.9543E+02	6.29	.226
3.4332E+02	2.05	.608	3.1726E+02	9.07	.153	2.9497E+02	5.20	.233

F (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	F (EV)	S (B)	DS/S
2.9451E+02	4.57	.246	2.7454E+02	3.29	.354	2.5579E+02	4.01	.243
2.9405E+02	4.57	.251	2.7412E+02	3.26	.402	2.5542E+02	4.09	.238
2.9360E+02	5.01	.262	2.7372E+02	3.50	.405	2.5505E+02	4.02	.242
2.9314E+02	5.65	.248	2.7331E+02	3.50	.362	2.5468E+02	3.80	.276
2.9269E+02	5.27	.218	2.7290E+02	3.17	.376	2.5431E+02	3.40	.305
2.9224E+02	5.46	.186	2.7208E+02	4.06	.322	2.5394E+02	3.74	.312
2.9178E+02	6.10	.167	2.7168E+02	3.88	.355	2.5358E+02	5.07	.334
2.9133E+02	6.75	.160	2.7127E+02	3.93	.339	2.5321E+02	5.84	.294
2.9088E+02	9.87	.236	2.7087E+02	3.86	.297	2.5285E+02	39.91	.154
2.9043E+02	30.51	.147	2.7046E+02	3.68	.276	2.5248E+02	26.44	.851
2.8999E+02	73.89	.130	2.7006E+02	3.61	.275	2.5212E+02	43.13	.346
2.8954E+02	82.18	.137	2.6966E+02	3.66	.275	2.5176E+02	31.42	.408
2.8909E+02	71.44	.153	2.6926E+02	3.31	.294	2.5140E+02	30.28	.343
2.8865E+02	63.07	.157	2.6886E+02	3.18	.309	2.5104E+02	26.28	.374
2.8821E+02	54.03	.168	2.6846E+02	3.62	.262	2.5068E+02	23.58	.334
2.8776E+02	46.53	.178	2.6806E+02	3.98	.240	2.5032E+02	10.56	.497
2.8732E+02	31.73	.218	2.6777E+02	3.81	.249	2.4996E+02	6.47	.555
2.8688E+02	27.70	.242	2.6688E+02	3.83	.252	2.4960E+02	4.62	.609
2.8644E+02	25.92	.288	2.6648E+02	3.65	.266	2.4925E+02	5.50	.457
2.8600E+02	12.25	.739	2.6609E+02	3.63	.262	2.4889E+02	4.59	.348
2.8557E+02	4.01	2.567	2.6569E+02	3.64	.263	2.4854E+02	4.37	.282
2.8513E+02	4.59	2.553	2.6530E+02	4.04	.237	2.4818E+02	4.42	.275
2.8469E+02	1.25	9.147	2.6491E+02	4.34	.237	2.4783E+02	4.43	.308
2.8426E+02	2.15	5.242	2.6452E+02	4.17	.312	2.4748E+02	2.98	.327
2.8383E+02	7.99	1.322	2.6413E+02	4.04	.279	2.4712E+02	4.09	.265
2.8340E+02	9.11	1.019	2.6375E+02	4.12	.232	2.4677E+02	4.51	.216
2.8296E+02	5.72	1.467	2.6336E+02	4.18	.268	2.4642E+02	5.21	.236
2.8253E+02	2.94	2.036	2.6297E+02	4.07	.319	2.4607E+02	9.77	.463
2.8210E+02	5.00	.991	2.6259E+02	3.82	.286	2.4572E+02	28.37	.194
2.8167E+02	6.35	.709	2.6220E+02	3.18	.323	2.4537E+02	39.59	.170
2.8125E+02	3.97	.978	2.6182E+02	3.06	.404	2.4503E+02	29.54	.207
2.8082E+02	3.83	.857	2.6143E+02	3.72	.354	2.4468E+02	27.18	.192
2.8040E+02	5.49	.555	2.6105E+02	3.32	.328	2.4433E+02	23.64	.189
2.7997E+02	5.95	.461	2.6067E+02	3.65	.277	2.4399E+02	21.20	.167
2.7955E+02	5.30	.496	2.6029E+02	4.43	.227	2.4364E+02	12.32	.205
2.7912E+02	5.57	.430	2.5991E+02	4.99	.208	2.4330E+02	7.26	.280
2.7870E+02	5.16	.442	2.5953E+02	5.02	.222	2.4296E+02	7.18	.213
2.7828E+02	4.61	.466	2.5915E+02	5.11	.205	2.4261E+02	6.87	.190
2.7786E+02	5.78	.352	2.5878E+02	4.60	.221	2.4227E+02	6.80	.262
2.7744E+02	5.77	.313	2.5840E+02	4.20	.241	2.4193E+02	4.79	.273
2.7702E+02	5.18	.337	2.5802E+02	4.35	.250	2.4159E+02	4.96	.248
2.7661E+02	4.37	.356	2.5765E+02	4.74	.247	2.4125E+02	5.37	.201
2.7619E+02	3.38	.460	2.5727E+02	3.78	.340	2.4091E+02	5.27	.206
2.7578E+02	2.25	.641	2.5690E+02	3.36	.387	2.4057E+02	5.45	.192
2.7536E+02	2.69	.589	2.5653E+02	3.18	.362	2.4024E+02	6.02	.180
2.7495E+02	3.10	.489	2.5616E+02	3.89	.290	2.3990E+02	6.49	.219

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
2.3956E+02	6.29	.224	2.2453E+02	7.02	.177	2.1060E+02	7.01	.127
2.3923E+02	6.20	.173	2.2393E+02	7.17	.177	2.1032E+02	7.56	.167
2.3889E+02	6.09	.175	2.2362E+02	7.32	.166	2.1004E+02	7.27	.156
2.3856E+02	6.09	.186	2.2332E+02	7.13	.143	2.0977E+02	7.00	.162
2.3823E+02	6.46	.159	2.2302E+02	6.94	.181	2.0949E+02	6.17	.211
2.3789E+02	6.49	.157	2.2272E+02	8.28	.151	2.0922E+02	5.03	.228
2.3756E+02	6.26	.162	2.2242E+02	11.02	.146	2.0895E+02	4.69	.240
2.3723E+02	5.97	.182	2.2182E+02	160.22	.077	2.0867E+02	4.84	.277
2.3690E+02	5.43	.241	2.2152E+02	191.08	.078	2.0840E+02	4.95	.288
2.3657E+02	5.53	.231	2.2122E+02	177.82	.078	2.0813E+02	5.14	.251
2.3624E+02	5.36	.180	2.2092E+02	155.07	.078	2.0786E+02	5.31	.199
2.3591E+02	5.07	.187	2.2062E+02	131.98	.079	2.0759E+02	5.49	.264
2.3559E+02	4.85	.220	2.2033E+02	97.14	.079	2.0731E+02	5.32	.202
2.3526E+02	5.37	.233	2.2003E+02	68.97	.081	2.0705E+02	5.25	.209
2.3493E+02	6.24	.177	2.1974E+02	44.56	.112	2.0678E+02	5.37	.263
2.3461E+02	6.09	.165	2.1944E+02	25.96	.138	2.0651E+02	5.16	.200
2.3428E+02	5.39	.232	2.1915E+02	17.53	.098	2.0624E+02	5.05	.270
2.3396E+02	5.52	.170	2.1886E+02	12.58	.107	2.0597E+02	5.14	.204
2.3363E+02	5.93	.178	2.1856E+02	10.09	.120	2.0570E+02	5.08	.214
2.3331E+02	6.62	.198	2.1827E+02	8.45	.136	2.0544E+02	4.89	.266
2.3299E+02	7.79	.140	2.1798E+02	7.86	.149	2.0517E+02	5.69	.240
2.3267E+02	8.31	.158	2.1769E+02	8.70	.150	2.0490E+02	5.85	.205
2.3235E+02	8.61	.165	2.1740E+02	13.97	.217	2.0464E+02	5.70	.191
2.3203E+02	8.67	.129	2.1711E+02	62.17	.109	2.0437E+02	5.84	.179
2.3171E+02	8.80	.148	2.1682E+02	89.77	.118	2.0411E+02	6.79	.201
2.3139E+02	8.79	.173	2.1653E+02	75.79	.155	2.0385E+02	15.27	.257
2.3107E+02	8.45	.161	2.1624E+02	60.50	.191	2.0358E+02	35.23	.081
2.3075E+02	7.91	.141	2.1595E+02	55.38	.191	2.0332E+02	49.94	.081
2.3043E+02	7.18	.176	2.1567E+02	53.31	.179	2.0306E+02	56.42	.082
2.3012E+02	6.09	.226	2.1538E+02	40.01	.209	2.0280E+02	50.15	.082
2.2980E+02	5.84	.172	2.1509E+02	20.65	.269	2.0254E+02	45.71	.083
2.2949E+02	5.61	.227	2.1481E+02	17.64	.234	2.0227E+02	39.49	.086
2.2917E+02	5.37	.244	2.1452E+02	15.30	.192	2.0202E+02	26.33	.110
2.2886E+02	5.50	.199	2.1424E+02	11.53	.210	2.0176E+02	17.49	.104
2.2855E+02	5.25	.180	2.1396E+02	8.92	.219	2.0150E+02	9.92	.122
2.2823E+02	4.86	.245	2.1367E+02	9.72	.166	2.0124E+02	8.46	.132
2.2792E+02	4.49	.260	2.1339E+02	9.35	.155	2.0098E+02	6.69	.155
2.2761E+02	4.74	.231	2.1311E+02	8.59	.164	2.0072E+02	5.86	.167
2.2730E+02	5.02	.179	2.1283E+02	6.73	.208	2.0046E+02	5.53	.174
2.2699E+02	5.26	.220	2.1255E+02	7.09	.192	2.0021E+02	5.24	.162
2.2668E+02	5.73	.216	2.1227E+02	7.60	.170	1.9995E+02	4.61	.192
2.2637E+02	5.89	.162	2.1199E+02	7.96	.197	1.9970E+02	4.40	.214
2.2606E+02	5.96	.157	2.1171E+02	9.55	.176	1.9944E+02	4.12	.232
2.2576E+02	5.90	.186	2.1143E+02	10.66	.138	1.9919E+02	4.19	.240
2.2545E+02	5.65	.215	2.1115E+02	10.62	.118	1.9893E+02	3.93	.251
2.2514E+02	6.42	.164	2.1087E+02	9.93	.125	1.9868E+02	3.82	.275

E (EV)	S (8)	DS/S	E (FV)	S (8)	DS/S	E (EV)	S (8)	DS/S
1.9842E+02	3.59	.340	1.8728E+02	6.32	.193	1.7683E+02	25.02	.192
1.9817E+02	3.68	.338	1.8705E+02	5.71	.181	1.7662E+02	23.62	.204
1.9792E+02	3.54	.321	1.8681E+02	4.95	.215	1.7641E+02	20.03	.207
1.9767E+02	3.33	.300	1.8658E+02	3.89	.297	1.7619E+02	14.75	.237
1.9742E+02	3.21	.288	1.8635E+02	4.00	.277	1.7598E+02	11.51	.266
1.9716E+02	4.04	.239	1.8612E+02	4.94	.221	1.7577E+02	9.03	.333
1.9691E+02	4.78	.233	1.8589E+02	5.03	.213	1.7556E+02	7.12	.306
1.9666E+02	5.26	.189	1.8566E+02	4.76	.208	1.7535E+02	6.98	.270
1.9641E+02	5.69	.173	1.8521E+02	5.01	.199	1.7514E+02	6.71	.217
1.9617E+02	6.15	.165	1.8498E+02	4.96	.220	1.7493E+02	6.57	.238
1.9592E+02	6.36	.163	1.8475E+02	5.02	.200	1.7472E+02	6.25	.247
1.9567E+02	6.88	.168	1.8452E+02	5.48	.193	1.7451E+02	6.83	.243
1.9542E+02	7.06	.183	1.8430E+02	7.09	.154	1.7431E+02	8.20	.232
1.9518E+02	7.79	.169	1.8407E+02	11.05	.183	1.7410E+02	8.76	.253
1.9493E+02	7.30	.171	1.8385E+02	15.73	.129	1.7389E+02	9.26	.313
1.9468E+02	7.27	.155	1.8362E+02	97.17	.101	1.7368E+02	10.03	.337
1.9444E+02	7.82	.149	1.8340E+02	149.33	.100	1.7348E+02	9.35	.373
1.9419E+02	9.54	.134	1.8317E+02	181.79	.109	1.7327E+02	9.37	.322
1.9395E+02	12.22	.122	1.8295E+02	178.94	.125	1.7306E+02	7.51	.299
1.9370E+02	13.89	.139	1.8272E+02	159.42	.125	1.7286E+02	7.70	.291
1.9346E+02	20.67	.202	1.8250E+02	142.33	.120	1.7265E+02	9.02	.197
1.9322E+02	20.42	.472	1.8228E+02	120.87	.125	1.7245E+02	11.81	.131
1.9297E+02	56.89	.572	1.8205E+02	87.65	.118	1.7224E+02	16.53	.107
1.9273E+02	52.13	.408	1.8183E+02	58.09	.134	1.7204E+02	35.39	.083
1.9249E+02	26.49	.830	1.8161E+02	35.43	.160	1.7183E+02	117.86	.077
1.9225E+02	16.09	1.260	1.8139E+02	27.17	.119	1.7163E+02	246.50	.076
1.9201E+02	19.73	.927	1.8117E+02	18.31	.121	1.7143E+02	293.59	.078
1.9177E+02	29.51	.541	1.8095E+02	13.59	.122	1.7122E+02	299.96	.079
1.9152E+02	10.33	1.208	1.8073E+02	10.18	.149	1.7102E+02	295.97	.079
1.9128E+02	2.50	4.071	1.8051E+02	9.35	.145	1.7082E+02	268.29	.079
1.9105E+02	3.33	1.795	1.8029E+02	7.70	.152	1.7061E+02	276.10	.082
1.9081E+02	4.68	.881	1.8007E+02	6.38	.173	1.7041E+02	169.17	.081
1.9057E+02	2.96	1.042	1.7985E+02	5.72	.193	1.7021E+02	115.82	.091
1.9033E+02	2.44	.915	1.7963E+02	5.84	.186	1.7001E+02	76.84	.081
1.9009E+02	4.85	.309	1.7941E+02	5.92	.186	1.6981E+02	54.53	.080
1.8986E+02	6.27	.226	1.7920E+02	5.80	.252	1.6961E+02	37.01	.083
1.8962E+02	7.14	.198	1.7898E+02	4.89	.277	1.6941E+02	27.19	.090
1.8938E+02	6.73	.196	1.7876E+02	5.16	.204	1.6921E+02	21.12	.106
1.8915E+02	4.82	.271	1.7855E+02	4.87	.213	1.6901E+02	16.36	.109
1.8891E+02	3.95	.316	1.7833E+02	5.12	.222	1.6881E+02	13.05	.112
1.8868E+02	4.02	.309	1.7812E+02	5.47	.262	1.6862E+02	11.05	.120
1.8844E+02	4.60	.255	1.7790E+02	5.58	.240	1.6842E+02	9.85	.130
1.8821E+02	5.07	.228	1.7769E+02	11.76	.119	1.6822E+02	9.77	.173
1.8798E+02	5.52	.226	1.7747E+02	21.64	.161	1.6802E+02	8.22	.190
1.8774E+02	6.98	.196	1.7726E+02	24.37	.140	1.6783E+02	7.91	.149
1.8751E+02	6.78	.210	1.7705E+02	21.39	.203	1.6763E+02	7.63	.188

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
1.6743E+02	7.34	.208	1.5840E+02	6.79	.222	1.4959E+02	12.90	.176
1.6724E+02	6.18	.223	1.5822E+02	7.58	.172	1.4942E+02	12.47	.180
1.6704E+02	6.06	.188	1.5804E+02	8.30	.231	1.4926E+02	11.87	.178
1.6685E+02	6.19	.186	1.5788E+02	7.54	.210	1.4909E+02	10.76	.189
1.6665E+02	6.21	.194	1.5750E+02	7.78	.214	1.4893E+02	9.64	.198
1.6646E+02	5.57	.211	1.5732E+02	8.57	.168	1.4876E+02	9.48	.181
1.6626E+02	5.62	.259	1.5715E+02	9.07	.158	1.4860E+02	8.99	.194
1.6607E+02	5.99	.248	1.5697E+02	8.84	.166	1.4843E+02	9.02	.237
1.6587E+02	6.69	.171	1.5679E+02	8.97	.178	1.4827E+02	9.90	.266
1.6568E+02	7.48	.156	1.5661E+02	10.30	.141	1.4811E+02	9.65	.243
1.6549E+02	7.97	.163	1.5644E+02	11.35	.145	1.4794E+02	7.73	.276
1.6530E+02	7.87	.195	1.5626E+02	12.20	.159	1.4778E+02	6.75	.276
1.6510E+02	7.82	.207	1.5608E+02	12.16	.144	1.4762E+02	6.32	.274
1.6491E+02	7.33	.168	1.5591E+02	12.06	.128	1.4746E+02	6.21	.260
1.6472E+02	6.85	.213	1.5573E+02	12.48	.128	1.4729E+02	6.02	.349
1.6453E+02	6.55	.234	1.5555E+02	12.36	.152	1.4713E+02	5.26	.365
1.6434E+02	6.22	.248	1.5538E+02	14.18	.154	1.4697E+02	5.89	.267
1.6415E+02	6.11	.247	1.5520E+02	12.32	.180	1.4681E+02	7.68	.210
1.6396E+02	5.98	.204	1.5503E+02	11.78	.176	1.4665E+02	8.78	.167
1.6377E+02	5.67	.197	1.5477E+02	11.46	.124	1.4649E+02	8.25	.172
1.6358E+02	5.37	.207	1.5451E+02	10.90	.170	1.4633E+02	8.21	.173
1.6339E+02	5.29	.217	1.5433E+02	11.46	.178	1.4617E+02	8.10	.176
1.6320E+02	5.27	.258	1.5416E+02	10.42	.202	1.4601E+02	7.62	.215
1.6301E+02	5.38	.257	1.5399E+02	9.76	.210	1.4585E+02	8.06	.230
1.6282E+02	5.89	.224	1.5381E+02	8.96	.186	1.4569E+02	8.19	.171
1.6264E+02	5.35	.279	1.5364E+02	8.22	.190	1.4553E+02	8.38	.218
1.6245E+02	6.03	.249	1.5347E+02	7.84	.194	1.4537E+02	9.03	.212
1.6226E+02	5.57	.231	1.5330E+02	8.39	.182	1.4521E+02	8.72	.165
1.6189E+02	6.52	.238	1.5312E+02	10.10	.168	1.4505E+02	8.34	.234
1.6170E+02	6.27	.238	1.5278E+02	12.72	.130	1.4490E+02	8.40	.189
1.6152E+02	6.28	.189	1.5253E+02	14.00	.112	1.4474E+02	8.55	.212
1.6114E+02	6.23	.190	1.5227E+02	21.18	.200	1.4458E+02	9.05	.230
1.6096E+02	5.71	.237	1.5210E+02	37.84	.111	1.4442E+02	9.48	.227
1.6077E+02	6.29	.251	1.5189E+02	70.44	.310	1.4427E+02	8.92	.213
1.6059E+02	6.55	.200	1.5159E+02	209.51	.106	1.4411E+02	8.53	.180
1.6041E+02	6.96	.170	1.5142E+02	228.66	.109	1.4395E+02	8.37	.176
1.6022E+02	7.38	.189	1.5126E+02	230.12	.118	1.4380E+02	8.32	.231
1.6004E+02	7.70	.212	1.5109E+02	218.41	.121	1.4364E+02	8.76	.213
1.5986E+02	7.72	.176	1.5092E+02	207.25	.122	1.4349E+02	8.75	.166
1.5967E+02	7.75	.159	1.5075E+02	185.15	.120	1.4333E+02	8.91	.207
1.5949E+02	7.59	.162	1.5058E+02	142.48	.132	1.4318E+02	7.81	.242
1.5931E+02	6.94	.172	1.5042E+02	95.92	.151	1.4302E+02	7.82	.187
1.5913E+02	6.02	.193	1.5025E+02	61.35	.148	1.4287E+02	7.78	.229
1.5894E+02	5.77	.202	1.5008E+02	45.79	.119	1.4271E+02	6.99	.266
1.5876E+02	6.54	.193	1.4992E+02	29.73	.166	1.4256E+02	6.81	.201
1.5858E+02	7.29	.223	1.4975E+02	19.07	.150	1.4240E+02	6.95	.199

E (EV)	S (B)	OS/S	E (EV)	S (B)	OS/S	E (EV)	S (B)	OS/S
1.4225E+02	7.44	.196	1.3530E+02	5.61	.388	1.2845E+02	9.37	.309
1.4210E+02	7.25	.205	1.3516E+02	5.23	.421	1.2832E+02	9.87	.317
1.4194E+02	6.68	.208	1.3501E+02	5.36	.336	1.2819E+02	9.68	.274
1.4179E+02	6.63	.232	1.3487E+02	7.25	.280	1.2805E+02	9.64	.253
1.4164E+02	8.14	.185	1.3473E+02	5.03	.424	1.2792E+02	9.63	.242
1.4148E+02	9.44	.178	1.3459E+02	6.56	.356	1.2779E+02	9.70	.240
1.4133E+02	10.81	.188	1.3431E+02	7.19	.296	1.2766E+02	9.28	.263
1.4118E+02	11.49	.183	1.3417E+02	7.24	.338	1.2753E+02	9.29	.271
1.4103E+02	11.52	.148	1.3402E+02	7.28	.282	1.2740E+02	7.51	.291
1.4088E+02	12.55	.146	1.3374E+02	7.96	.253	1.2727E+02	7.02	.257
1.4073E+02	17.25	.126	1.3360E+02	8.84	.268	1.2714E+02	7.75	.302
1.4057E+02	26.85	.096	1.3347E+02	8.35	.314	1.2701E+02	7.97	.283
1.4043E+02	39.60	.089	1.3333E+02	8.96	.282	1.2688E+02	9.20	.240
1.4027E+02	53.39	.090	1.3319E+02	11.75	.204	1.2675E+02	9.12	.224
1.4012E+02	60.82	.098	1.3305E+02	16.71	.173	1.2662E+02	9.63	.247
1.3997E+02	60.43	.097	1.3291E+02	21.13	.158	1.2649E+02	9.54	.225
1.3982E+02	55.92	.100	1.3277E+02	22.62	.154	1.2637E+02	9.30	.215
1.3968E+02	49.27	.104	1.3249E+02	21.27	.150	1.2624E+02	9.37	.210
1.3952E+02	41.63	.111	1.3236E+02	20.95	.189	1.2611E+02	9.71	.207
1.3938E+02	33.43	.145	1.3222E+02	19.34	.191	1.2598E+02	10.42	.197
1.3923E+02	23.48	.126	1.3208E+02	18.80	.152	1.2585E+02	10.40	.188
1.3908E+02	16.49	.145	1.3194E+02	15.78	.170	1.2572E+02	10.24	.194
1.3893E+02	13.72	.169	1.3181E+02	11.12	.222	1.2560E+02	10.64	.215
1.3878E+02	11.74	.183	1.3167E+02	9.55	.330	1.2547E+02	11.89	.215
1.3864E+02	9.17	.205	1.3153E+02	8.10	.366	1.2534E+02	12.86	.165
1.3849E+02	7.23	.280	1.3126E+02	7.11	.366	1.2522E+02	13.42	.159
1.3834E+02	7.62	.275	1.3112E+02	6.05	.503	1.2509E+02	15.25	.185
1.3819E+02	7.43	.261	1.3099E+02	4.07	.666	1.2496E+02	15.18	.183
1.3805E+02	6.54	.297	1.3085E+02	4.31	.502	1.2484E+02	14.51	.166
1.3790E+02	6.12	.331	1.3072E+02	4.77	.505	1.2471E+02	12.18	.173
1.3775E+02	6.64	.306	1.3058E+02	4.74	.632	1.2459E+02	13.22	.151
1.3761E+02	5.95	.291	1.3045E+02	5.78	.402	1.2446E+02	14.92	.157
1.3746E+02	6.20	.239	1.3031E+02	6.28	.354	1.2433E+02	16.55	.147
1.3731E+02	6.60	.292	1.3018E+02	6.42	.429	1.2421E+02	15.15	.137
1.3717E+02	4.85	.412	1.3004E+02	7.03	.428	1.2408E+02	14.79	.148
1.3702E+02	5.87	.341	1.2991E+02	8.20	.329	1.2396E+02	16.07	.136
1.3688E+02	5.99	.250	1.2978E+02	10.02	.230	1.2383E+02	16.44	.134
1.3673E+02	6.03	.343	1.2964E+02	11.30	.285	1.2371E+02	18.25	.123
1.3659E+02	6.52	.315	1.2951E+02	9.88	.248	1.2358E+02	19.75	.120
1.3644E+02	6.28	.245	1.2937E+02	8.95	.339	1.2346E+02	21.69	.117
1.3630E+02	6.42	.239	1.2924E+02	7.21	.422	1.2334E+02	24.09	.111
1.3616E+02	6.53	.237	1.2911E+02	7.50	.291	1.2321E+02	31.85	.120
1.3601E+02	6.19	.260	1.2898E+02	7.87	.368	1.2309E+02	45.65	.244
1.3587E+02	5.84	.327	1.2884E+02	8.44	.351	1.2297E+02	116.28	.175
1.3573E+02	5.42	.333	1.2871E+02	8.85	.256	1.2284E+02	202.25	.142
1.3558E+02	5.44	.389	1.2858E+02	8.68	.241	1.2272E+02	277.97	.133

E(EV)	S(B)	DS/S	E(EV)	S(B)	LS/S	E(EV)	S(B)	DS/S
1.2259E+02	346.67	.110	1.1713E+02	22.89	.114	1.1203E+02	13.98	.146
1.2247E+02	372.71	.108	1.1707E+02	20.04	.127	1.1192E+02	13.22	.164
1.2235E+02	363.85	.109	1.1691E+02	18.11	.123	1.1182E+02	13.82	.158
1.2223E+02	329.34	.114	1.1679E+02	17.26	.124	1.1171E+02	14.87	.154
1.2211E+02	260.52	.125	1.1668E+02	17.09	.124	1.1160E+02	13.81	.154
1.2198E+02	212.00	.127	1.1656E+02	15.54	.133	1.1149E+02	13.85	.147
1.2186E+02	171.14	.136	1.1645E+02	14.03	.138	1.1139E+02	14.81	.144
1.2174E+02	124.72	.157	1.1634E+02	13.79	.150	1.1128E+02	14.78	.149
1.2162E+02	86.54	.145	1.1622E+02	13.32	.172	1.1118E+02	15.04	.147
1.2150E+02	70.54	.126	1.1611E+02	13.01	.165	1.1107E+02	15.42	.144
1.2138E+02	53.92	.136	1.1599E+02	12.51	.189	1.1096E+02	16.17	.136
1.2126E+02	43.08	.112	1.1588E+02	12.33	.206	1.1086E+02	18.55	.140
1.2113E+02	37.03	.121	1.1577E+02	11.59	.208	1.1075E+02	27.83	.161
1.2101E+02	32.37	.116	1.1566E+02	12.11	.216	1.1065E+02	46.91	.155
1.2089E+02	29.81	.107	1.1554E+02	12.04	.203	1.1054E+02	86.55	.109
1.2077E+02	28.83	.112	1.1543E+02	12.50	.171	1.1044E+02	126.70	.134
1.2065E+02	27.65	.112	1.1532E+02	13.18	.188	1.1033E+02	161.12	.109
1.2053E+02	24.08	.126	1.1521E+02	14.26	.186	1.1023E+02	175.64	.112
1.2041E+02	21.45	.133	1.1510E+02	13.99	.191	1.1012E+02	178.39	.117
1.2029E+02	19.98	.133	1.1498E+02	13.86	.197	1.1002E+02	163.00	.115
1.2018E+02	18.20	.143	1.1487E+02	13.48	.200	1.0991E+02	141.20	.116
1.2006E+02	17.45	.138	1.1476E+02	12.67	.229	1.0981E+02	112.38	.122
1.1994E+02	18.00	.133	1.1465E+02	12.00	.227	1.0971E+02	91.29	.114
1.1982E+02	19.04	.127	1.1454E+02	14.17	.184	1.0960E+02	67.32	.122
1.1970E+02	20.82	.114	1.1443E+02	18.23	.165	1.0950E+02	45.82	.175
1.1958E+02	25.68	.115	1.1432E+02	26.56	.184	1.0939E+02	32.61	.155
1.1946E+02	34.62	.111	1.1421E+02	67.51	.185	1.0929E+02	25.64	.146
1.1934E+02	69.71	.085	1.1410E+02	123.12	.129	1.0919E+02	20.10	.136
1.1923E+02	113.58	.101	1.1399E+02	174.65	.132	1.0909E+02	15.71	.164
1.1911E+02	162.01	.106	1.1388E+02	239.87	.101	1.0898E+02	12.70	.201
1.1899E+02	251.70	.152	1.1377E+02	275.29	.097	1.0888E+02	10.03	.253
1.1887E+02	403.54	.098	1.1366E+02	285.16	.095	1.0878E+02	9.55	.268
1.1876E+02	480.48	.080	1.1355E+02	284.25	.094	1.0867E+02	8.86	.242
1.1864E+02	486.38	.079	1.1344E+02	256.05	.097	1.0857E+02	7.79	.237
1.1852E+02	470.85	.079	1.1333E+02	218.87	.099	1.0847E+02	7.76	.276
1.1841E+02	412.36	.083	1.1322E+02	167.21	.136	1.0837E+02	8.17	.293
1.1829E+02	352.40	.086	1.1311E+02	116.88	.115	1.0826E+02	7.32	.290
1.1817E+02	279.19	.099	1.1300E+02	80.24	.131	1.0816E+02	7.13	.306
1.1806E+02	200.22	.094	1.1289E+02	56.61	.137	1.0806E+02	6.79	.304
1.1794E+02	140.13	.113	1.1278E+02	39.33	.116	1.0796E+02	6.57	.284
1.1782E+02	97.29	.115	1.1268E+02	31.97	.122	1.0786E+02	6.17	.310
1.1771E+02	71.40	.090	1.1257E+02	24.04	.133	1.0776E+02	5.86	.355
1.1759E+02	57.12	.103	1.1246E+02	19.49	.139	1.0766E+02	5.61	.373
1.1748E+02	42.06	.112	1.1235E+02	16.88	.152	1.0755E+02	5.58	.384
1.1736E+02	33.37	.097	1.1224E+02	15.17	.160	1.0745E+02	5.87	.315
1.1725E+02	27.40	.104	1.1214E+02	14.17	.163	1.0735E+02	6.64	.279

E (EV)	S (B)	DS/S	F (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
1.0725E+02	7.27	.256	1.0277E+02	4.43	.439	9.8571E+01	9.80	.295
1.0715E+02	7.72	.246	1.0268E+02	4.75	.423	9.8482E+01	9.76	.302
1.0705E+02	7.71	.266	1.0259E+02	4.97	.369	9.8394E+01	9.61	.307
1.0695E+02	7.75	.278	1.0249E+02	4.98	.355	9.8305E+01	9.57	.289
1.0685E+02	7.81	.272	1.0240E+02	4.97	.359	9.8217E+01	9.46	.256
1.0675E+02	7.72	.284	1.0230E+02	4.98	.377	9.8129E+01	9.88	.264
1.0665E+02	7.15	.287	1.0221E+02	5.04	.370	9.8041E+01	9.82	.274
1.0655E+02	7.13	.266	1.0212E+02	5.10	.363	9.7954E+01	9.45	.290
1.0645E+02	7.08	.260	1.0202E+02	5.08	.419	9.7866E+01	9.31	.270
1.0635E+02	6.98	.309	1.0193E+02	4.86	.506	9.7778E+01	7.41	.293
1.0625E+02	6.85	.285	1.0184E+02	5.31	.425	9.7691E+01	7.32	.310
1.0616E+02	6.82	.300	1.0174E+02	5.40	.356	9.7604E+01	7.72	.289
1.0606E+02	6.95	.299	1.0165E+02	5.77	.331	9.7517E+01	7.75	.278
1.0596E+02	7.32	.259	1.0156E+02	6.20	.317	9.7430E+01	9.66	.258
1.0586E+02	7.23	.257	1.0147E+02	5.99	.365	9.7343E+01	9.33	.288
1.0576E+02	6.75	.271	1.0137E+02	6.22	.360	9.7256E+01	9.71	.265
1.0566E+02	6.13	.309	1.0128E+02	5.59	.442	9.7169E+01	9.38	.273
1.0556E+02	6.54	.340	1.0119E+02	5.53	.456	9.7082E+01	9.88	.299
1.0547E+02	6.06	.369	1.0110E+02	4.96	.456	9.6996E+01	9.40	.285
1.0537E+02	6.19	.331	1.0101E+02	5.55	.429	9.6909E+01	10.62	.258
1.0527E+02	6.16	.339	1.0091E+02	5.63	.465	9.6823E+01	10.56	.287
1.0517E+02	6.10	.339	1.0082E+02	5.81	.428	9.6737E+01	10.93	.268
1.0507E+02	6.13	.321	1.0073E+02	6.31	.355	9.6651E+01	11.10	.259
1.0498E+02	5.63	.387	1.0064E+02	6.08	.356	9.6565E+01	11.77	.269
1.0488E+02	5.46	.415	1.0055E+02	6.83	.300	9.6479E+01	10.90	.315
1.0478E+02	5.39	.367	1.0046E+02	7.46	.272	9.6394E+01	9.54	.340
1.0469E+02	4.72	.399	1.0037E+02	8.38	.250	9.6308E+01	10.98	.265
1.0459E+02	4.62	.429	1.0028E+02	8.44	.286	9.6222E+01	9.74	.302
1.0449E+02	4.73	.399	1.0018E+02	8.13	.314	9.6137E+01	9.52	.305
1.0440E+02	4.84	.371	1.0009E+02	9.00	.303	9.6052E+01	10.11	.294
1.0430E+02	4.94	.381	1.0000E+02	12.74	.218	9.5967E+01	9.72	.335
1.0420E+02	4.90	.485	9.9912E+01	15.35	.187	9.5882E+01	9.70	.338
1.0411E+02	4.29	.592	9.9822E+01	16.69	.199	9.5797E+01	10.60	.319
1.0401E+02	4.16	.499	9.9732E+01	16.92	.199	9.5712E+01	11.06	.396
1.0391E+02	4.76	.432	9.9642E+01	16.80	.197	9.5628E+01	9.42	.516
1.0382E+02	4.92	.388	9.9552E+01	16.73	.214	9.5543E+01	9.91	.396
1.0372E+02	4.99	.383	9.9462E+01	16.10	.225	9.5459E+01	9.10	.415
1.0363E+02	4.95	.378	9.9372E+01	14.69	.243	9.5374E+01	9.15	.407
1.0353E+02	4.93	.366	9.9283E+01	12.69	.271	9.5290E+01	9.05	.407
1.0344E+02	4.82	.374	9.9193E+01	11.29	.301	9.5206E+01	7.84	.418
1.0334E+02	4.72	.384	9.9104E+01	11.34	.303	9.5122E+01	9.29	.387
1.0325E+02	5.02	.375	9.9015E+01	11.15	.270	9.5038E+01	7.92	.368
1.0315E+02	5.09	.461	9.8926E+01	10.75	.254	9.4954E+01	7.44	.370
1.0306E+02	5.06	.491	9.8837E+01	10.36	.260	9.4870E+01	7.34	.359
1.0296E+02	4.66	.455	9.8748E+01	10.08	.275	9.4787E+01	6.98	.364
1.0287E+02	4.35	.435	9.8659E+01	9.89	.282	9.4703E+01	6.96	.360

E(FV)	S(B)	DS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S
9.4620E+01	8.05	.311	9.0875E+01	5.71	.400	8.7217E+01	4.28	.546
9.4537E+01	10.32	.239	9.0795E+01	4.97	.522	8.7138E+01	4.27	.544
9.4454E+01	11.98	.221	9.0715E+01	4.82	.564	8.7060E+01	4.29	.543
9.4371E+01	13.18	.253	9.0634E+01	4.87	.506	8.6981E+01	4.31	.543
9.4288E+01	13.46	.187	9.0554E+01	4.15	.627	8.6902E+01	4.43	.498
9.4205E+01	13.71	.175	9.0474E+01	3.71	.647	8.6824E+01	4.96	.549
9.4122E+01	12.19	.200	9.0394E+01	3.89	.628	8.6745E+01	4.54	.565
9.4040E+01	10.48	.221	9.0314E+01	3.93	.709	8.6667E+01	4.34	.558
9.3957E+01	7.92	.282	9.0234E+01	3.24	.820	8.6588E+01	4.37	.552
9.3875E+01	6.12	.358	9.0153E+01	3.09	.753	8.6510E+01	5.45	.464
9.3793E+01	5.58	.388	9.0073E+01	3.55	.640	8.6432E+01	7.58	.343
9.3711E+01	5.88	.378	8.9994E+01	3.82	.593	8.6353E+01	9.64	.323
9.3629E+01	5.60	.434	8.9914E+01	3.84	.593	8.6275E+01	7.11	.297
9.3547E+01	5.10	.515	8.9834E+01	3.87	.589	8.6197E+01	8.83	.287
9.3465E+01	4.69	.592	8.9754E+01	3.95	.609	8.6119E+01	9.07	.285
9.3383E+01	4.38	.588	8.9674E+01	4.00	.621	8.6040E+01	9.45	.312
9.3302E+01	4.45	.534	8.9594E+01	3.98	.570	8.5962E+01	9.82	.329
9.3220E+01	4.41	.540	8.9515E+01	3.93	.575	8.5884E+01	10.04	.313
9.3139E+01	4.38	.560	8.9435E+01	3.90	.582	8.5806E+01	10.46	.307
9.3057E+01	4.45	.568	8.9355E+01	3.93	.574	8.5728E+01	13.32	.251
9.2976E+01	4.52	.523	8.9275E+01	3.98	.596	8.5650E+01	15.89	.221
9.2895E+01	4.51	.499	8.9196E+01	4.03	.702	8.5572E+01	16.68	.229
9.2814E+01	4.48	.567	8.9116E+01	4.41	.586	8.5494E+01	17.12	.241
9.2732E+01	4.05	.655	8.9037E+01	4.20	.613	8.5416E+01	15.51	.281
9.2651E+01	3.80	.604	8.8957E+01	4.11	.715	8.5338E+01	15.02	.296
9.2570E+01	3.72	.605	8.8878E+01	4.48	.608	8.5260E+01	15.60	.281
9.2489E+01	3.72	.646	8.8798E+01	4.85	.517	8.5182E+01	15.48	.264
9.2408E+01	3.37	.779	8.8719E+01	4.73	.469	8.5105E+01	14.17	.280
9.2327E+01	2.94	.932	8.8640E+01	4.94	.466	8.5027E+01	13.24	.282
9.2246E+01	2.84	.966	8.8560E+01	4.99	.490	8.4949E+01	11.53	.282
9.2165E+01	2.85	.948	8.8481E+01	5.03	.536	8.4872E+01	10.83	.277
9.2084E+01	2.88	.860	8.8402E+01	4.39	.590	8.4794E+01	10.96	.271
9.2003E+01	2.86	.808	8.8322E+01	4.48	.533	8.4716E+01	10.81	.293
9.1923E+01	2.84	.851	8.8243E+01	4.35	.540	8.4639E+01	11.51	.258
9.1842E+01	3.48	.685	8.8164E+01	3.82	.613	8.4561E+01	12.43	.230
9.1761E+01	3.25	.686	8.8085E+01	3.58	.656	8.4484E+01	12.63	.231
9.1680E+01	3.53	.658	8.8006E+01	3.86	.596	8.4406E+01	12.48	.240
9.1600E+01	4.06	.566	8.7927E+01	4.14	.556	8.4329E+01	11.99	.244
9.1519E+01	3.94	.570	8.7848E+01	3.97	.595	8.4252E+01	13.76	.209
9.1438E+01	3.13	.794	8.7769E+01	3.55	.735	8.4174E+01	15.43	.188
9.1358E+01	2.58	.971	8.7690E+01	3.47	.776	8.4097E+01	15.45	.188
9.1277E+01	3.76	.662	8.7611E+01	3.82	.644	8.4020E+01	15.45	.185
9.1197E+01	4.55	.600	8.7532E+01	4.26	.547	8.3942E+01	15.77	.181
9.1116E+01	4.68	.592	8.7453E+01	4.42	.527	8.3865E+01	17.09	.171
9.1036E+01	5.11	.514	8.7374E+01	3.76	.634	8.3788E+01	19.91	.158
9.0956E+01	5.55	.422	8.7296E+01	4.01	.610	8.3711E+01	25.39	.134

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
8.3634E+01	34.60	.121	8.0126E+01	9.92	.278	7.6693E+01	9.92	.344
8.3557E+01	50.92	.167	8.0050E+01	10.21	.272	7.6619E+01	9.95	.328
8.3480E+01	83.92	.149	7.9975E+01	10.15	.278	7.6545E+01	9.39	.352
8.3403E+01	144.37	.160	7.9900E+01	9.43	.296	7.6472E+01	7.98	.397
8.3326E+01	252.44	.176	7.9824E+01	9.02	.306	7.6398E+01	9.43	.382
8.3249E+01	409.00	.130	7.9749E+01	9.27	.302	7.6324E+01	9.65	.363
8.3172E+01	572.42	.101	7.9674E+01	9.08	.311	7.6251E+01	8.06	.378
8.3095E+01	657.29	.092	7.9599E+01	8.98	.309	7.6177E+01	8.60	.347
8.3018E+01	692.69	.090	7.9523E+01	8.82	.315	7.6103E+01	9.40	.320
8.2941E+01	684.83	.091	7.9448E+01	9.10	.307	7.6030E+01	8.78	.344
8.2865E+01	651.93	.099	7.9373E+01	9.37	.297	7.5956E+01	8.32	.367
8.2788E+01	599.88	.098	7.9298E+01	9.21	.302	7.5883E+01	8.97	.339
8.2711E+01	501.16	.117	7.9223E+01	8.95	.311	7.5810E+01	9.40	.337
8.2635E+01	410.56	.106	7.9148E+01	9.07	.307	7.5736E+01	9.09	.332
8.2558E+01	342.73	.116	7.9073E+01	9.07	.310	7.5663E+01	8.73	.354
8.2482E+01	265.40	.130	7.8998E+01	9.00	.310	7.5590E+01	8.43	.361
8.2405E+01	185.89	.118	7.8923E+01	8.85	.319	7.5516E+01	7.95	.375
8.2329E+01	129.76	.114	7.8848E+01	8.70	.323	7.5443E+01	7.41	.417
8.2252E+01	92.97	.108	7.8773E+01	8.86	.316	7.5370E+01	7.47	.403
8.2176E+01	69.74	.104	7.8699E+01	9.04	.311	7.5297E+01	9.54	.358
8.2099E+01	54.62	.118	7.8624E+01	9.43	.300	7.5224E+01	10.54	.305
8.2023E+01	40.99	.127	7.8549E+01	9.24	.306	7.5151E+01	13.61	.245
8.1947E+01	32.58	.131	7.8474E+01	8.58	.328	7.5077E+01	15.36	.213
8.1870E+01	27.71	.141	7.8400E+01	8.33	.337	7.5004E+01	15.93	.204
8.1794E+01	24.04	.148	7.8325E+01	8.61	.345	7.4932E+01	14.99	.218
8.1718E+01	20.89	.165	7.8251E+01	8.60	.350	7.4858E+01	11.96	.269
8.1642E+01	18.21	.179	7.8176E+01	8.55	.331	7.4786E+01	10.78	.293
8.1566E+01	17.24	.180	7.8102E+01	8.45	.335	7.4713E+01	11.01	.292
8.1490E+01	16.78	.182	7.8027E+01	8.34	.346	7.4640E+01	11.17	.280
8.1414E+01	16.38	.188	7.7953E+01	8.50	.345	7.4567E+01	10.83	.286
8.1337E+01	15.12	.201	7.7878E+01	8.85	.324	7.4494E+01	9.90	.311
8.1261E+01	13.49	.218	7.7804E+01	8.39	.349	7.4422E+01	8.67	.354
8.1186E+01	12.37	.241	7.7730E+01	7.04	.408	7.4349E+01	8.36	.366
8.1110E+01	11.25	.289	7.7655E+01	6.94	.412	7.4276E+01	8.94	.345
8.1034E+01	10.73	.295	7.7581E+01	8.71	.335	7.4204E+01	9.22	.335
8.0958E+01	11.14	.267	7.7507E+01	11.27	.264	7.4131E+01	8.44	.370
8.0882E+01	11.68	.246	7.7433E+01	12.35	.241	7.4059E+01	7.86	.404
8.0806E+01	11.61	.245	7.7358E+01	12.74	.234	7.3986E+01	8.49	.372
8.0730E+01	10.62	.268	7.7284E+01	12.25	.247	7.3914E+01	8.39	.379
8.0655E+01	9.31	.303	7.7210E+01	11.00	.271	7.3841E+01	8.64	.361
8.0579E+01	9.35	.297	7.7136E+01	10.62	.270	7.3769E+01	9.93	.320
8.0503E+01	9.88	.290	7.7062E+01	10.34	.269	7.3696E+01	9.77	.387
8.0428E+01	9.84	.300	7.6988E+01	10.21	.289	7.3624E+01	7.96	.423
8.0352E+01	10.60	.277	7.6914E+01	9.26	.315	7.3552E+01	7.87	.410
8.0277E+01	9.85	.304	7.6840E+01	8.73	.338	7.3479E+01	7.90	.419
8.0201E+01	9.77	.302	7.6767E+01	8.94	.364	7.3407E+01	9.39	.347

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
7.3335E+01	10.24	.317	7.0052E+01	156.23	.110	6.6844E+01	17.14	.286
7.3263E+01	9.80	.342	6.9982E+01	137.92	.117	6.6776E+01	14.58	.315
7.3191E+01	10.71	.306	6.9911E+01	112.04	.128	6.6707E+01	11.77	.366
7.3119E+01	10.79	.298	6.9841E+01	85.09	.144	6.6638E+01	11.96	.342
7.3046E+01	10.64	.301	6.9770E+01	66.02	.136	6.6569E+01	17.52	.323
7.2974E+01	10.35	.314	6.9700E+01	55.28	.127	6.6500E+01	11.54	.346
7.2902E+01	10.83	.297	6.9629E+01	48.77	.120	6.6432E+01	9.95	.389
7.2831E+01	10.73	.307	6.9559E+01	43.60	.119	6.6363E+01	8.89	.433
7.2759E+01	10.14	.329	6.9489E+01	39.28	.122	6.6294E+01	9.44	.408
7.2687E+01	9.75	.329	6.9419E+01	35.59	.128	6.6226E+01	10.03	.386
7.2615E+01	9.68	.347	6.9348E+01	31.40	.140	6.6157E+01	10.27	.375
7.2543E+01	10.53	.345	6.9278E+01	26.87	.150	6.6088E+01	11.80	.340
7.2471E+01	10.24	.348	6.9208E+01	25.52	.154	6.6020E+01	17.62	.342
7.2399E+01	9.31	.364	6.9138E+01	26.75	.148	6.5952E+01	13.46	.364
7.2328E+01	8.82	.369	6.9068E+01	26.37	.150	6.5883E+01	16.38	.354
7.2256E+01	8.46	.382	6.8998E+01	23.93	.162	6.5815E+01	17.76	.335
7.2184E+01	8.56	.384	6.8928E+01	20.93	.181	6.5746E+01	19.66	.326
7.2113E+01	8.65	.382	6.8858E+01	20.98	.180	6.5678E+01	19.04	.325
7.2041E+01	9.39	.347	6.8788E+01	22.00	.174	6.5610E+01	17.84	.350
7.1970E+01	10.19	.324	6.8718E+01	21.04	.180	6.5541E+01	16.40	.364
7.1898E+01	10.24	.324	6.8648E+01	21.03	.180	6.5473E+01	14.46	.393
7.1827E+01	10.17	.334	6.8578E+01	22.01	.172	6.5405E+01	13.85	.400
7.1756E+01	10.82	.308	6.8509E+01	22.86	.169	6.5337E+01	14.72	.377
7.1684E+01	10.76	.308	6.8439E+01	23.50	.171	6.5269E+01	15.92	.369
7.1613E+01	10.72	.318	6.8369E+01	23.75	.189	6.5201E+01	16.09	.379
7.1541E+01	10.72	.312	6.8300E+01	24.23	.190	6.5133E+01	16.43	.372
7.1470E+01	10.51	.317	6.8230E+01	25.31	.164	6.5065E+01	16.77	.364
7.1399E+01	10.48	.325	6.8160E+01	28.54	.151	6.4997E+01	16.59	.364
7.1328E+01	10.88	.306	6.8091E+01	30.74	.151	6.4929E+01	14.99	.393
7.1256E+01	10.88	.307	6.8021E+01	30.36	.164	6.4861E+01	17.25	.464
7.1185E+01	10.87	.307	6.7952E+01	30.69	.175	6.4793E+01	10.37	.504
7.1114E+01	11.24	.303	6.7882E+01	31.26	.185	6.4725E+01	9.67	.480
7.1043E+01	11.91	.295	6.7813E+01	30.29	.196	6.4657E+01	8.84	.488
7.0972E+01	13.77	.259	6.7743E+01	27.21	.214	6.4590E+01	7.43	.448
7.0901E+01	15.43	.234	6.7674E+01	23.52	.244	6.4522E+01	10.20	.409
7.0830E+01	16.76	.213	6.7605E+01	23.49	.244	6.4454E+01	7.63	.425
7.0759E+01	17.11	.207	6.7535E+01	24.72	.230	6.4387E+01	9.35	.436
7.0689E+01	17.61	.204	6.7466E+01	25.46	.230	6.4319E+01	9.52	.425
7.0618E+01	22.17	.192	6.7397E+01	25.15	.244	6.4251E+01	7.38	.422
7.0547E+01	30.53	.173	6.7328E+01	21.67	.294	6.4184E+01	10.16	.387
7.0476E+01	44.61	.165	6.7258E+01	19.32	.337	6.4116E+01	10.79	.364
7.0405E+01	73.31	.161	6.7189E+01	21.69	.296	6.4049E+01	10.97	.354
7.0335E+01	112.42	.125	6.7120E+01	21.58	.284	6.3981E+01	10.90	.356
7.0264E+01	143.56	.111	6.7051E+01	20.33	.292	6.3914E+01	10.84	.354
7.0193E+01	161.26	.107	6.6982E+01	19.21	.294	6.3847E+01	10.52	.364
7.0123E+01	167.36	.106	6.6913E+01	17.84	.290	6.3779E+01	9.83	.392

E (EV)	S (B)	OS/S	E (EV)	S (B)	LS/S	E (EV)	S (B)	OS/S
6.3712E+01	9.54	.396	6.0654E+01	7.29	.593	5.7672E+01	10.31	.455
6.3645E+01	9.68	.391	6.0589E+01	7.31	.591	5.7608E+01	9.77	.482
6.3577E+01	9.78	.390	6.0523E+01	6.03	.723	5.7544E+01	9.60	.485
6.3510E+01	10.52	.362	6.0458E+01	6.17	.702	5.7480E+01	10.29	.459
6.3443E+01	10.25	.372	6.0392E+01	7.08	.588	5.7416E+01	10.29	.442
6.3376E+01	9.37	.415	6.0327E+01	7.75	.545	5.7352E+01	10.20	.439
6.3309E+01	8.39	.469	6.0261E+01	9.98	.468	5.7289E+01	9.99	.451
6.3242E+01	7.02	.538	6.0196E+01	17.36	.301	5.7225E+01	9.08	.505
6.3175E+01	5.66	.665	6.0130E+01	31.53	.204	5.7161E+01	9.87	.526
6.3108E+01	4.59	.828	6.0065E+01	53.97	.162	5.7097E+01	9.66	.534
6.3041E+01	4.44	.878	6.0000E+01	94.06	.142	5.7004E+01	9.21	.402
6.2974E+01	4.98	.784	5.9934E+01	138.82	.109	5.6872E+01	9.45	.398
6.2907E+01	5.99	.663	5.9869E+01	168.07	.093	5.6779E+01	9.16	.576
6.2840E+01	6.48	.621	5.9804E+01	177.12	.081	5.6716E+01	9.28	.596
6.2773E+01	5.69	.701	5.9739E+01	165.98	.084	5.6652E+01	9.71	.573
6.2707E+01	4.58	.852	5.9674E+01	142.97	.092	5.6589E+01	9.78	.537
6.2640E+01	5.02	.792	5.9609E+01	111.41	.108	5.6525E+01	9.81	.537
6.2573E+01	5.81	.688	5.9543E+01	76.01	.128	5.6462E+01	9.51	.562
6.2506E+01	5.66	.683	5.9478E+01	51.51	.134	5.6399E+01	9.07	.578
6.2440E+01	5.50	.711	5.9414E+01	39.72	.138	5.6336E+01	7.28	.658
6.2373E+01	5.45	.756	5.9349E+01	32.75	.157	5.6272E+01	5.64	.867
6.2307E+01	5.95	.707	5.9284E+01	26.20	.185	5.6209E+01	6.86	.715
6.2240E+01	4.56	.925	5.9219E+01	22.03	.210	5.6146E+01	7.93	.641
6.2174E+01	5.76	.747	5.9154E+01	18.62	.239	5.6083E+01	7.37	.650
6.2107E+01	6.94	.568	5.9089E+01	15.89	.286	5.6020E+01	7.39	.627
6.2041E+01	7.01	.556	5.9024E+01	14.30	.319	5.5957E+01	7.35	.633
6.1975E+01	6.83	.595	5.8959E+01	13.00	.340	5.5893E+01	7.86	.601
6.1908E+01	6.38	.693	5.8895E+01	12.38	.363	5.5831E+01	9.55	.589
6.1842E+01	6.03	.714	5.8830E+01	12.42	.377	5.5768E+01	9.07	.656
6.1776E+01	5.48	.744	5.8765E+01	11.98	.402	5.5705E+01	6.80	.773
6.1709E+01	5.46	.724	5.8701E+01	13.00	.357	5.5642E+01	9.23	.678
6.1643E+01	7.27	.550	5.8636E+01	13.02	.348	5.5579E+01	9.36	.580
6.1577E+01	8.47	.475	5.8572E+01	12.36	.377	5.5516E+01	9.38	.547
6.1511E+01	7.08	.564	5.8507E+01	10.95	.429	5.5453E+01	9.13	.573
6.1445E+01	5.50	.766	5.8443E+01	11.00	.449	5.5390E+01	9.52	.581
6.1379E+01	5.86	.747	5.8378E+01	10.18	.538	5.5328E+01	9.59	.566
6.1313E+01	6.53	.668	5.8314E+01	10.23	.538	5.5265E+01	9.27	.603
6.1247E+01	6.29	.664	5.8250E+01	8.47	.593	5.5203E+01	9.02	.678
6.1181E+01	6.58	.616	5.8185E+01	7.55	.644	5.5140E+01	9.47	.638
6.1115E+01	7.69	.544	5.8121E+01	8.27	.595	5.5077E+01	7.24	.689
6.1049E+01	8.50	.507	5.8057E+01	8.20	.572	5.5015E+01	6.50	.803
6.0983E+01	7.79	.548	5.7993E+01	8.23	.540	5.4952E+01	6.88	.781
6.0917E+01	6.90	.599	5.7928E+01	8.54	.519	5.4890E+01	6.46	.792
6.0851E+01	7.20	.570	5.7864E+01	8.97	.513	5.4827E+01	5.97	.825
6.0786E+01	7.73	.534	5.7800E+01	9.38	.483	5.4765E+01	5.36	.901
6.0720E+01	7.14	.590	5.7736E+01	10.00	.450	5.4703E+01	6.12	1.196

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
5.4640E+01	3.92	1.359	5.1811E+01	5.97	.941	4.9058E+01	7.85	.746
5.4578E+01	4.46	1.159	5.1751E+01	5.35	1.081	4.8999E+01	17.63	.543
5.4516E+01	4.39	1.125	5.1690E+01	6.01	1.021	4.8940E+01	11.12	.585
5.4453E+01	4.08	1.227	5.1630E+01	6.24	.917	4.8881E+01	11.57	.561
5.4391E+01	5.16	1.026	5.1569E+01	6.87	.792	4.8822E+01	14.17	.541
5.4329E+01	6.41	.840	5.1508E+01	7.95	.730	4.8763E+01	13.07	.582
5.4267E+01	7.30	.730	5.1448E+01	8.02	.793	4.8704E+01	19.09	.386
5.4205E+01	5.73	.976	5.1388E+01	7.85	.788	4.8645E+01	27.95	.309
5.4143E+01	4.39	1.350	5.1327E+01	6.52	.869	4.8587E+01	26.87	.270
5.4081E+01	4.50	1.300	5.1267E+01	6.84	.823	4.8528E+01	27.21	.271
5.4019E+01	5.14	1.161	5.1206E+01	5.84	1.014	4.8469E+01	27.83	.321
5.3957E+01	5.76	.997	5.1146E+01	5.35	1.120	4.8410E+01	27.80	.462
5.3895E+01	4.27	1.206	5.1086E+01	5.33	1.161	4.8352E+01	17.99	.655
5.3833E+01	3.41	1.433	5.1026E+01	5.43	1.176	4.8293E+01	14.54	.759
5.3771E+01	2.56	1.947	5.0965E+01	5.73	1.160	4.8235E+01	19.69	.619
5.3709E+01	1.80	3.171	5.0905E+01	4.39	1.531	4.8176E+01	17.91	.660
5.3648E+01	-1.36	4.195	5.0845E+01	5.57	1.172	4.8118E+01	27.09	.742
5.3586E+01	2.49	2.142	5.0785E+01	6.75	1.044	4.8059E+01	17.58	.842
5.3524E+01	2.87	1.806	5.0725E+01	6.54	1.051	4.8001E+01	21.57	.753
5.3463E+01	3.73	1.545	5.0665E+01	7.31	.870	4.7942E+01	17.43	1.346
5.3401E+01	4.18	1.378	5.0605E+01	6.34	1.071	4.7884E+01	11.93	.920
5.3340E+01	4.04	1.350	5.0545E+01	3.82	1.863	4.7826E+01	9.26	1.140
5.3278E+01	3.40	1.723	5.0485E+01	7.91	.848	4.7767E+01	7.30	1.199
5.3216E+01	2.68	2.162	5.0425E+01	9.50	.734	4.7709E+01	5.42	1.480
5.3155E+01	4.23	1.250	5.0365E+01	8.13	.820	4.7651E+01	7.82	.978
5.3093E+01	5.47	1.026	5.0306E+01	8.11	.753	4.7593E+01	17.66	.702
5.3032E+01	5.48	1.111	5.0246E+01	9.62	.687	4.7535E+01	13.81	.552
5.2971E+01	5.17	1.062	5.0186E+01	8.75	.759	4.7476E+01	17.89	.735
5.2909E+01	4.23	1.251	5.0126E+01	9.38	.681	4.7418E+01	6.15	1.334
5.2848E+01	5.62	.953	5.0067E+01	11.08	.590	4.7360E+01	5.34	1.289
5.2787E+01	8.37	.736	5.0007E+01	10.11	.633	4.7302E+01	17.31	.657
5.2726E+01	9.63	.590	4.9947E+01	9.48	.643	4.7244E+01	11.98	.695
5.2664E+01	8.13	.648	4.9888E+01	8.44	.769	4.7187E+01	7.71	.715
5.2603E+01	11.16	.513	4.9828E+01	10.15	.701	4.7129E+01	9.86	.664
5.2542E+01	12.72	.496	4.9769E+01	9.38	.668	4.7071E+01	9.17	.795
5.2481E+01	10.05	.571	4.9709E+01	10.59	.572	4.7013E+01	7.36	1.235
5.2420E+01	8.19	.722	4.9650E+01	11.52	.540	4.6955E+01	9.51	1.051
5.2359E+01	7.52	.771	4.9591E+01	9.42	.684	4.6897E+01	6.77	1.022
5.2298E+01	6.24	.918	4.9531E+01	9.61	.647	4.6840E+01	7.46	.883
5.2237E+01	6.47	.928	4.9472E+01	8.53	.719	4.6782E+01	7.31	.892
5.2176E+01	7.16	.873	4.9413E+01	9.85	.638	4.6724E+01	6.80	1.013
5.2115E+01	8.04	.742	4.9353E+01	11.21	.592	4.6667E+01	9.52	.788
5.2054E+01	7.83	.727	4.9294E+01	11.59	.618	4.6609E+01	9.57	.781
5.1994E+01	7.11	.844	4.9235E+01	8.19	.929	4.6552E+01	9.62	.785
5.1933E+01	7.02	.842	4.9176E+01	9.27	.773	4.6494E+01	9.77	.790
5.1872E+01	6.78	.832	4.9117E+01	8.19	.893	4.6437E+01	9.93	.716

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
4.6379E+01	10.82	.814	4.3776E+01	5.94	1.257	4.1248E+01	14.07	.650
4.6322E+01	7.39	1.087	4.3720E+01	4.20	1.934	4.1194E+01	12.02	.858
4.6264E+01	10.97	.682	4.3665E+01	4.21	2.343	4.1139E+01	5.07	2.142
4.6207E+01	9.25	.782	4.3609E+01	1.59	6.323	4.1085E+01	12.81	.898
4.6150E+01	8.47	.884	4.3553E+01	4.11	2.291	4.1032E+01	10.41	.851
4.6093E+01	6.62	1.445	4.3497E+01	3.26	2.597	4.0977E+01	8.94	1.070
4.6035E+01	6.77	1.486	4.3442E+01	2.41	3.224	4.0924E+01	6.62	1.735
4.5978E+01	7.23	1.361	4.3386E+01	5.40	1.621	4.0870E+01	5.27	2.076
4.5921E+01	9.57	1.201	4.3331E+01	4.42	2.331	4.0816E+01	11.50	.908
4.5864E+01	22.60	.558	4.3275E+01	9.80	.987	4.0762E+01	12.15	.853
4.5807E+01	26.17	.479	4.3220E+01	5.21	1.640	4.0708E+01	5.66	1.765
4.5750E+01	31.34	.402	4.3165E+01	6.41	1.207	4.0654E+01	2.11	1.027
4.5693E+01	37.02	.563	4.3109E+01	5.57	1.379	4.0601E+01	10.69	.803
4.5636E+01	44.23	.425	4.3054E+01	7.73	1.108	4.0547E+01	2.26	.986
4.5579E+01	47.76	.535	4.2998E+01	9.21	1.086	4.0493E+01	10.48	1.027
4.5522E+01	37.33	.659	4.2943E+01	16.07	.657	4.0440E+01	2.24	1.294
4.5465E+01	33.96	.561	4.2888E+01	8.12	1.188	4.0386E+01	2.24	1.377
4.5408E+01	25.90	.566	4.2833E+01	6.09	1.740	4.0332E+01	12.77	.925
4.5352E+01	18.71	.629	4.2778E+01	7.45	1.397	4.0279E+01	12.61	.896
4.5295E+01	10.42	.958	4.2723E+01	4.84	1.737	4.0225E+01	2.26	1.328
4.5238E+01	7.44	1.233	4.2668E+01	4.60	1.731	4.0172E+01	12.16	1.052
4.5181E+01	8.84	.964	4.2612E+01	5.20	1.624	4.0119E+01	15.11	.940
4.5125E+01	6.06	1.297	4.2557E+01	7.45	1.248	4.0065E+01	21.40	.834
4.5068E+01	6.12	1.261	4.2503E+01	7.08	1.157	4.0012E+01	23.76	.884
4.5012E+01	5.14	1.575	4.2447E+01	6.03	1.374	3.9958E+01	27.23	1.257
4.4955E+01	7.65	1.133	4.2393E+01	7.07	1.193	3.9905E+01	30.76	1.057
4.4899E+01	8.94	.968	4.2338E+01	10.17	.808	3.9852E+01	25.60	1.168
4.4842E+01	5.54	1.598	4.2283E+01	9.45	.906	3.9799E+01	21.26	1.279
4.4786E+01	6.55	1.132	4.2228E+01	10.29	.847	3.9746E+01	12.53	1.819
4.4729E+01	6.00	1.180	4.2173E+01	8.87	1.063	3.9693E+01	12.66	1.431
4.4673E+01	5.58	1.462	4.2119E+01	7.56	1.154	3.9639E+01	8.23	1.957
4.4617E+01	8.98	.850	4.2064E+01	7.47	1.132	3.9586E+01	4.90	3.246
4.4560E+01	13.79	.560	4.2009E+01	7.37	1.219	3.9533E+01	15.68	.859
4.4504E+01	10.62	.856	4.1955E+01	7.46	1.181	3.9480E+01	12.37	1.125
4.4448E+01	8.44	.991	4.1900E+01	7.75	1.159	3.9427E+01	7.90	1.454
4.4392E+01	11.81	.687	4.1845E+01	8.07	1.187	3.9374E+01	12.36	1.011
4.4335E+01	8.81	1.004	4.1791E+01	9.32	.985	3.9322E+01	10.59	.957
4.4279E+01	9.37	.992	4.1736E+01	9.23	.933	3.9269E+01	11.76	1.103
4.4223E+01	7.74	1.148	4.1682E+01	11.31	.857	3.9216E+01	12.14	1.340
4.4167E+01	4.92	1.576	4.1628E+01	11.83	.747	3.9163E+01	13.34	.913
4.4111E+01	5.96	1.374	4.1573E+01	14.35	.601	3.9110E+01	2.71	1.162
4.4055E+01	3.62	2.558	4.1519E+01	12.87	.680	3.9058E+01	8.53	1.415
4.3999E+01	1.22	8.278	4.1465E+01	9.44	.988	3.9005E+01	11.90	1.141
4.3943E+01	1.42	7.014	4.1410E+01	14.50	.716	3.8952E+01	11.94	1.170
4.3888E+01	4.17	2.335	4.1356E+01	17.03	.595	3.8900E+01	6.28	2.066
4.3832E+01	4.69	1.808	4.1302E+01	14.45	.672	3.8847E+01	4.73	2.398

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
3.8795E+01	11.46	1.001	3.6417E+01	24.39	.492	3.4114E+01	9.99	1.658
3.8742E+01	13.38	1.022	3.6366E+01	20.15	.554	3.4065E+01	10.48	1.574
3.8690E+01	12.73	1.034	3.6315E+01	16.83	.685	3.4016E+01	10.13	1.581
3.8637E+01	13.28	.823	3.6264E+01	14.00	.842	3.3967E+01	12.52	1.253
3.8585E+01	9.43	1.155	3.6214E+01	11.48	.997	3.3918E+01	12.08	1.250
3.8533E+01	8.74	1.279	3.6163E+01	13.89	.830	3.3869E+01	9.90	1.403
3.8480E+01	13.19	.977	3.6112E+01	12.83	1.000	3.3819E+01	9.18	1.484
3.8428E+01	17.58	.980	3.6062E+01	13.56	.992	3.3770E+01	9.61	1.657
3.8376E+01	9.70	2.082	3.6011E+01	18.10	.668	3.3721E+01	12.67	1.195
3.8324E+01	8.38	2.516	3.5960E+01	14.51	.836	3.3672E+01	7.57	2.247
3.8271E+01	17.92	1.451	3.5910E+01	12.25	1.128	3.3624E+01	10.07	1.764
3.8219E+01	37.96	.970	3.5859E+01	8.32	1.848	3.3575E+01	7.21	1.995
3.8167E+01	33.65	1.236	3.5809E+01	10.51	1.388	3.3526E+01	4.58	3.082
3.8115E+01	49.03	.984	3.5758E+01	11.02	1.178	3.3477E+01	10.01	1.669
3.8063E+01	33.16	1.334	3.5708E+01	12.13	1.010	3.3428E+01	9.44	1.926
3.8011E+01	21.54	1.559	3.5658E+01	11.41	1.016	3.3380E+01	6.97	2.207
3.7959E+01	14.72	1.878	3.5607E+01	13.54	.916	3.3331E+01	11.52	1.417
3.7907E+01	16.26	1.484	3.5557E+01	14.92	.925	3.3282E+01	9.43	1.827
3.7855E+01	20.33	.933	3.5507E+01	13.97	.925	3.3234E+01	9.06	2.298
3.7803E+01	10.10	1.387	3.5457E+01	10.58	1.081	3.3185E+01	10.64	1.659
3.7752E+01	8.62	1.466	3.5407E+01	10.43	1.144	3.3137E+01	10.07	1.721
3.7700E+01	11.80	1.026	3.5356E+01	10.67	1.364	3.3088E+01	9.71	1.749
3.7648E+01	13.09	.901	3.5306E+01	11.01	1.302	3.3040E+01	4.51	3.528
3.7596E+01	7.17	1.569	3.5256E+01	12.11	1.135	3.2991E+01	10.03	1.791
3.7545E+01	7.94	1.400	3.5206E+01	10.13	1.352	3.2943E+01	9.37	2.208
3.7493E+01	14.02	.815	3.5156E+01	7.36	1.736	3.2894E+01	11.00	1.540
3.7441E+01	11.92	1.059	3.5106E+01	9.41	1.404	3.2846E+01	10.48	1.457
3.7390E+01	9.86	1.417	3.5056E+01	9.46	1.326	3.2798E+01	6.13	2.326
3.7338E+01	6.12	2.477	3.5006E+01	11.09	1.142	3.2749E+01	2.65	5.871
3.7287E+01	14.10	1.019	3.4957E+01	11.39	1.318	3.2701E+01	10.25	1.821
3.7235E+01	10.47	1.304	3.4907E+01	11.68	1.386	3.2653E+01	14.18	1.178
3.7184E+01	12.24	1.147	3.4857E+01	11.57	1.365	3.2605E+01	11.25	1.631
3.7133E+01	8.82	1.498	3.4807E+01	7.22	2.048	3.2557E+01	9.95	2.122
3.7081E+01	9.74	1.104	3.4757E+01	10.55	1.327	3.2509E+01	6.44	2.857
3.7030E+01	8.56	1.231	3.4708E+01	9.48	1.628	3.2461E+01	19.75	.941
3.6979E+01	13.62	.997	3.4658E+01	7.24	1.958	3.2413E+01	10.06	.962
3.6927E+01	13.86	.964	3.4608E+01	8.06	1.505	3.2365E+01	25.88	.685
3.6876E+01	12.38	.889	3.4559E+01	9.92	1.363	3.2317E+01	27.12	.699
3.6825E+01	10.05	1.128	3.4509E+01	11.61	1.331	3.2269E+01	31.23	.642
3.6774E+01	11.14	1.222	3.4460E+01	11.30	1.420	3.2221E+01	30.93	.558
3.6723E+01	8.83	1.645	3.4410E+01	11.35	1.491	3.2173E+01	35.17	.480
3.6672E+01	12.66	1.110	3.4361E+01	7.81	1.883	3.2125E+01	29.95	.658
3.6621E+01	8.74	1.656	3.4312E+01	11.74	1.189	3.2078E+01	32.37	.615
3.6570E+01	17.14	.827	3.4262E+01	11.20	1.302	3.2030E+01	22.61	.877
3.6519E+01	21.79	.561	3.4213E+01	7.89	1.990	3.1982E+01	15.73	1.122
3.6468E+01	25.16	.492	3.4164E+01	3.54	4.168	3.1934E+01	14.00	1.076

E (EV)	S (B)	CS/S	E (EV)	S (B)	CS/S	E (EV)	S (B)	CS/S
3.1887E+01	14.17	1.338	2.9734E+01	18.58	1.127	2.7657E+01	-7.38	11.145
3.1839E+01	14.52	1.401	2.9688E+01	8.92	2.700	2.7613E+01	-9.70	2.548
3.1792E+01	22.72	.891	2.9643E+01	10.53	2.235	2.7569E+01	-7.02	2.810
3.1744E+01	14.72	1.369	2.9597E+01	16.84	1.288	2.7524E+01	-7.77	9.992
3.1697E+01	14.98	1.305	2.9551E+01	14.58	1.424	2.7480E+01	18.04	1.665
3.1649E+01	12.53	1.454	2.9505E+01	12.67	1.581	2.7436E+01	1.11	25.585
3.1602E+01	6.59	2.840	2.9459E+01	12.25	1.691	2.7392E+01	-4.32	6.357
3.1554E+01	9.22	2.169	2.9413E+01	10.78	1.871	2.7348E+01	-3.38	74.557
3.1507E+01	17.74	1.166	2.9368E+01	11.43	1.729	2.7304E+01	-7.33	3.885
3.1460E+01	15.13	1.314	2.9322E+01	11.72	1.743	2.7260E+01	-4.61	5.974
3.1413E+01	12.10	1.673	2.9277E+01	4.78	4.901	2.7216E+01	-1.34	20.455
3.1365E+01	9.24	2.258	2.9231E+01	4.85	5.172	2.7172E+01	4.89	5.530
3.1318E+01	15.60	1.250	2.9185E+01	8.71	2.615	2.7128E+01	13.93	1.947
3.1271E+01	26.19	.763	2.9140E+01	17.22	1.227	2.7084E+01	6.59	4.133
3.1224E+01	24.57	.778	2.9094E+01	12.89	1.757	2.7040E+01	3.23	8.386
3.1177E+01	33.83	.540	2.9049E+01	8.04	2.980	2.6996E+01	3.71	6.745
3.1130E+01	32.94	.596	2.9003E+01	10.64	2.254	2.6952E+01	5.77	4.286
3.1083E+01	31.17	.642	2.8958E+01	2.57	8.936	2.6909E+01	3.40	7.783
3.1036E+01	33.94	.584	2.8913E+01	16.07	1.472	2.6865E+01	3.81	7.321
3.0989E+01	19.07	1.231	2.8867E+01	11.23	2.195	2.6821E+01	6.47	4.311
3.0942E+01	26.78	.798	2.8822E+01	.86	26.598	2.6778E+01	6.29	4.481
3.0895E+01	26.66	.774	2.8777E+01	7.69	2.842	2.6734E+01	4.02	6.932
3.0848E+01	20.80	.903	2.8732E+01	6.01	3.728	2.6691E+01	12.01	2.129
3.0801E+01	21.67	.799	2.8687E+01	4.40	5.091	2.6647E+01	7.04	3.810
3.0754E+01	23.63	.846	2.8641E+01	6.23	3.691	2.6604E+01	3.85	7.746
3.0708E+01	18.61	1.140	2.8596E+01	4.24	5.780	2.6560E+01	7.33	4.149
3.0661E+01	21.89	.921	2.8551E+01	2.12	12.301	2.6517E+01	-7.34	10.783
3.0614E+01	23.64	.853	2.8506E+01	5.74	4.179	2.6473E+01	4.74	6.792
3.0568E+01	21.90	.957	2.8461E+01	13.79	1.551	2.6430E+01	8.19	3.522
3.0521E+01	22.04	.968	2.8416E+01	10.59	2.017	2.6386E+01	12.18	2.184
3.0475E+01	27.78	.829	2.8371E+01	5.27	4.158	2.6343E+01	9.07	3.612
3.0428E+01	19.29	1.080	2.8326E+01	5.79	4.143	2.6300E+01	11.19	2.858
3.0381E+01	21.33	.890	2.8282E+01	8.68	2.816	2.6257E+01	12.16	2.463
3.0335E+01	20.60	.907	2.8237E+01	4.30	5.275	2.6214E+01	12.38	2.326
3.0289E+01	16.77	1.179	2.8192E+01	-4.43	52.902	2.6170E+01	1.47	20.413
3.0242E+01	18.06	1.224	2.8147E+01	-1.96	11.833	2.6127E+01	-6.48	4.435
3.0196E+01	15.95	1.419	2.8102E+01	7.03	3.381	2.6084E+01	4.47	6.023
3.0150E+01	17.86	1.215	2.8058E+01	1.08	23.812	2.6041E+01	6.16	5.044
3.0103E+01	13.67	1.532	2.8013E+01	3.28	8.184	2.5998E+01	16.92	1.907
3.0057E+01	11.92	1.644	2.7969E+01	-1.60	16.746	2.5955E+01	11.36	2.763
3.0011E+01	21.77	.916	2.7924E+01	-1.21	20.251	2.5912E+01	12.08	2.467
2.9965E+01	18.12	1.281	2.7880E+01	.98	23.418	2.5869E+01	13.36	2.121
2.9919E+01	9.82	2.323	2.7835E+01	2.48	9.164	2.5827E+01	11.32	2.813
2.9872E+01	2.44	8.036	2.7790E+01	6.36	3.657	2.5784E+01	20.28	1.633
2.9827E+01	15.73	1.293	2.7746E+01	-1.84	13.571	2.5741E+01	12.72	2.499
2.9780E+01	12.55	1.708	2.7702E+01	-1.86	14.020	2.5698E+01	11.61	2.616

E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S	E (EV)	S (B)	DS/S
2.5655E+01	16.65	1.829	2.3729E+01	-7.02	5.992	2.1817E+01	15.11	3.503
2.5613E+01	3.42	9.108	2.3688E+01	-2.77	14.888	2.1838E+01	6.34	8.767
2.5570E+01	7.04	4.574	2.3647E+01	4.46	7.660	2.1798E+01	13.85	4.163
2.5528E+01	9.83	3.348	2.3606E+01	5.23	7.251	2.1759E+01	13.76	4.439
2.5485E+01	5.21	6.306	2.3565E+01	-3.45	11.933	2.1720E+01	15.81	3.571
2.5442E+01	11.11	3.070	2.3524E+01	-4.54	9.087	2.1681E+01	14.95	3.614
2.5400E+01	9.46	3.562	2.3483E+01	1.00	41.194	2.1641E+01	13.65	4.027
2.5357E+01	9.52	3.542	2.3442E+01	-6.96	5.719	2.1602E+01	15.76	3.414
2.5315E+01	14.93	2.266	2.3401E+01	-7.08	5.749	2.1563E+01	16.20	3.522
2.5273E+01	9.20	3.727	2.3361E+01	1.77	24.269	2.1524E+01	17.30	3.363
2.5230E+01	2.31	14.969	2.3320E+01	7.59	5.847	2.1485E+01	17.93	4.669
2.5188E+01	10.09	3.554	2.3279E+01	10.81	4.057	2.1446E+01	-4.24	13.735
2.5145E+01	14.34	2.421	2.3239E+01	1.68	24.601	2.1407E+01	-18.87	3.062
2.5103E+01	11.11	3.121	2.3198E+01	-6.64	63.538	2.1368E+01	-56.36	1.023
2.5061E+01	6.69	5.196	2.3157E+01	2.49	16.675	2.1329E+01	-68.07	.879
2.5019E+01	12.82	2.590	2.3117E+01	9.43	4.577	2.1290E+01	-7.10	35.642
2.4977E+01	7.35	4.490	2.3076E+01	16.70	2.538	2.1251E+01	34.12	1.776
2.4935E+01	5.04	7.034	2.3036E+01	4.03	10.456	2.1212E+01	16.40	3.721
2.4893E+01	6.24	5.627	2.2995E+01	16.71	2.640	2.1173E+01	23.50	2.544
2.4851E+01	4.36	7.846	2.2955E+01	8.84	5.008	2.1134E+01	42.40	1.387
2.4808E+01	2.33	15.073	2.2914E+01	11.23	4.147	2.1096E+01	50.12	1.212
2.4766E+01	.05	673.554	2.2874E+01	12.99	3.692	2.1057E+01	37.13	1.691
2.4725E+01	2.17	16.134	2.2834E+01	3.08	15.267	2.1018E+01	40.53	1.553
2.4683E+01	6.17	5.845	2.2794E+01	-1.15	40.433	2.0980E+01	30.61	2.105
2.4641E+01	6.78	5.345	2.2753E+01	-3.95	11.400	2.0941E+01	17.24	3.408
2.4599E+01	9.90	3.585	2.2713E+01	1.71	25.738	2.0903E+01	32.66	1.978
2.4557E+01	9.67	3.690	2.2673E+01	9.99	4.447	2.0864E+01	19.94	3.244
2.4515E+01	19.30	1.922	2.2633E+01	11.31	4.227	2.0826E+01	20.30	3.284
2.4474E+01	9.50	3.836	2.2593E+01	7.13	7.044	2.0787E+01	38.67	1.768
2.4432E+01	6.49	5.502	2.2553E+01	23.22	2.058	2.0749E+01	37.37	1.825
2.4390E+01	3.48	10.873	2.2513E+01	16.34	2.869	2.0710E+01	30.18	1.758
2.4349E+01	3.34	11.490	2.2473E+01	15.30	3.013	2.0672E+01	48.94	1.460
2.4307E+01	-3.69	10.158	2.2433E+01	8.77	6.369	2.0634E+01	57.24	1.256
2.4266E+01	1.47	25.957	2.2393E+01	10.93	5.664	2.0595E+01	51.21	1.378
2.4224E+01	1.74	20.585	2.2353E+01	10.90	5.006	2.0557E+01	55.73	1.285
2.4183E+01	1.07	32.623	2.2313E+01	8.80	5.755	2.0519E+01	49.42	1.463
2.4141E+01	-2.65	13.884	2.2273E+01	15.91	3.705	2.0481E+01	50.11	1.179
2.4100E+01	-4.55	8.218	2.2234E+01	8.07	6.375	2.0442E+01	61.13	1.125
2.4058E+01	-3.89	9.912	2.2194E+01	23.24	2.175	2.0404E+01	58.54	1.244
2.4017E+01	4.60	8.482	2.2154E+01	19.03	2.584	2.0366E+01	55.92	1.401
2.3976E+01	1.25	30.722	2.2114E+01	17.74	2.687	2.0328E+01	52.69	1.460
2.3934E+01	2.67	14.327	2.2075E+01	17.05	2.935	2.0290E+01	65.27	1.171
2.3893E+01	-1.64	22.737	2.2035E+01	11.96	4.381	2.0252E+01	86.63	.909
2.3852E+01	4.20	8.980	2.1996E+01	4.06	13.039	2.0215E+01	87.56	.876
2.3811E+01	.27	145.181	2.1956E+01	8.55	6.317	2.0177E+01	85.90	.911
2.3770E+01	.68	59.287	2.1917E+01	21.32	2.464	2.0139E+01	86.57	.908

E(EV)	S(8)	DS/S	E(EV)	S(8)	DS/S	E(EV)	S(8)	DS/S
2.0101E+01	76.58	1.019	1.9315E+01	112.71	1.729	1.8545E+01	2807.50	.165
2.0063E+01	69.94	1.141	1.9278E+01	133.58	1.223	1.8509E+01	2333.10	.182
2.0025E+01	64.46	1.288	1.9241E+01	115.38	1.232	1.8472E+01	1688.40	.214
1.9988E+01	80.64	1.018	1.9204E+01	112.20	1.267	1.8436E+01	1178.70	.204
1.9950E+01	85.09	1.037	1.9167E+01	119.09	1.152	1.8400E+01	757.62	.259
1.9912E+01	89.27	1.086	1.9130E+01	115.56	1.084	1.8364E+01	551.29	.308
1.9875E+01	83.08	1.224	1.9093E+01	103.62	1.175	1.8328E+01	442.07	.370
1.9837E+01	79.95	1.246	1.9057E+01	127.18	.941	1.8292E+01	403.62	.373
1.9800E+01	81.68	1.161	1.9020E+01	94.35	1.129	1.8255E+01	314.71	.462
1.9762E+01	71.64	1.475	1.8983E+01	98.61	1.118	1.8220E+01	214.09	.820
1.9725E+01	96.86	1.197	1.8946E+01	106.98	1.057	1.8183E+01	74.30	1.878
1.9687E+01	128.34	.953	1.8910E+01	107.20	1.056	1.8148E+01	57.19	2.316
1.9650E+01	153.84	1.072	1.8873E+01	125.75	.902	1.8112E+01	30.31	4.180
1.9612E+01	137.64	1.691	1.8836E+01	128.01	.932	1.8076E+01	46.33	2.882
1.9575E+01	170.69	1.565	1.8800E+01	220.65	.538	1.8040E+01	24.52	5.408
1.9538E+01	206.90	1.716	1.8763E+01	367.10	.429	1.8004E+01	23.38	5.434
1.9501E+01	175.56	2.586	1.8727E+01	825.73	.242	1.7968E+01	-6.66	19.904
1.9463E+01	398.19	1.330	1.8690E+01	1478.10	.222	1.7933E+01	-42.86	3.097
1.9426E+01	490.94	.938	1.8654E+01	2276.70	.182	1.7897E+01	-7.43	13.724
1.9389E+01	234.59	1.368	1.8617E+01	2971.40	.176	1.7861E+01	29.54	4.366
1.9352E+01	151.01	1.506	1.8581E+01	2984.80	.167	1.7826E+01	29.55	6.321