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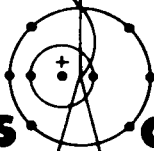
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A Tabulation of the  
Fission Cross Section of  $^{237}\text{Np}$   
from Physics 8

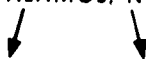
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LOS ALAMOS, NEW MEXICO 87544



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A Tabulation of the  
Fission Cross Section of  $^{237}\text{Np}$   
from Physics 8

by

R. J. Jiacoletti\*

W. K. Brown\*\*



\*Visiting Research Associate, sponsored by the Associated Western Universities. Present address, Department of Mechanical Engineering, University of Wyoming, Laramie, Wyoming 82070.

\*\*Present address, Department of Mechanical Engineering, University of Wyoming, Laramie, Wyoming 82070.

A TABULATION OF THE FISSION CROSS SECTION  
OF  $^{237}\text{Np}$  FROM PHYSICS 8

by

R. J. Jiacoletti and W. K. Brown

ABSTRACT

A tabulation of the measured values of the neutron-induced fission cross section of  $^{237}\text{Np}$  from 20 eV to 7 MeV is presented.

The report is a tabulation of the fission cross section of  $^{237}\text{Np}$  between 20 eV and 7 MeV as measured in the Physics 8 underground nuclear explosion in the summer of 1969. A description of a similar measurement made on a different nuclear explosion may be found in a Los Alamos Scientific Laboratory report, LA-4372, by W. K. Brown, D. R. Dixon, and D. M. Drake. A formal paper describing the details of this experiment by R. J. Jiacoletti (University of Wyoming), W. K. Brown (University of Wyoming), and H. G. Olson (Colorado State University) will be submitted to Nuclear Science and Engineering in late 1971. The reader is referred to the above for experimental details.

The tabulation lists the data in sets of three columns. The first column, E(eV) is a list of

neutron energy in electron volts in decreasing order. The second column, S(B), is a list of the values of the fission cross section in barns corresponding to the energy. The third column, DS/S, is a list of the total error of the cross-section measurement as a decimal fraction. The total error is a quadratic combination of the correlated or systematic error (5.3%) and the random error at each energy. The value of the cross section at each energy is a weighted average of the measurements from two detectors. The time channel width used in the computation was 0.2  $\mu\text{sec}$  above  $2.5 \times 10^5$  eV, 0.5  $\mu\text{sec}$  from  $10^5$  to  $2.5 \times 10^5$  eV, 2  $\mu\text{sec}$  from  $10^4$  to  $10^5$  eV, 0.2  $\mu\text{sec}$  from  $4 \times 10^3$  to  $10^4$  eV, 0.5  $\mu\text{sec}$  from 1000 to 4000 eV, 0.2  $\mu\text{sec}$  from 220 to 1000 eV, and 1  $\mu\text{sec}$  from 20 to 220 eV.

FISSION CROSS SECTION OF 237NP

E(EV)	S(B)	OS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	OS/S
7.6568E+06	1.858	.093	6.7290E+05	1.160	.080	2.9052E+05	.064	.077
7.1024E+06	1.669	.091	6.5788E+05	1.087	.088	2.8623E+05	.063	.086
6.6062E+06	1.578	.082	6.4337E+05	.995	.065	2.8015E+05	.063	.064
6.1602E+06	1.543	.069	6.2932E+05	.931	.061	2.7394E+05	.063	.075
5.7579E+06	1.490	.063	6.1574E+05	.881	.061	2.7001E+05	.058	.088
5.2550E+06	1.482	.057	6.0259E+05	.852	.051	2.6617E+05	.055	.102
4.7620E+06	1.448	.071	5.8985E+05	.813	.063	2.6242E+05	.056	.082
4.4870E+06	1.526	.066	5.7752E+05	.753	.063	2.5874E+05	.059	.079
4.2351E+06	1.578	.071	5.6029E+05	.719	.058	2.5513E+05	.057	.080
3.9130E+06	1.586	.057	5.4275E+05	.631	.063	2.5161E+05	.055	.088
3.5948E+06	1.609	.061	5.3185E+05	.574	.078	2.4323E+05	.050	.066
3.4133E+06	1.647	.064	5.2128E+05	.563	.063	2.3514E+05	.045	.066
3.2453E+06	1.676	.072	5.1103E+05	.550	.062	2.2745E+05	.043	.067
3.0268E+06	1.699	.057	5.0107E+05	.517	.062	2.1672E+05	.041	.065
2.8095E+06	1.739	.062	4.9149E+05	.481	.063	2.0651E+05	.042	.073
2.6836E+06	1.830	.061	4.8201E+05	.445	.064	2.0017E+05	.040	.069
2.5660E+06	1.869	.064	4.7288E+05	.404	.065	1.9128E+05	.037	.067
2.4109E+06	1.880	.058	4.6401E+05	.374	.064	1.8021E+05	.036	.068
2.2561E+06	1.888	.063	4.5539E+05	.356	.063	1.7400E+05	.039	.096
2.1651E+06	1.850	.063	4.4701E+05	.326	.057	1.6909E+05	.036	.104
2.0796E+06	1.847	.061	4.3886E+05	.306	.076	1.6077E+05	.031	.075
1.9656E+06	1.816	.062	4.3092E+05	.274	.088	1.5553E+05	.032	.101
1.8514E+06	1.830	.072	4.2320E+05	.260	.081	1.5138E+05	.029	.100
1.7836E+06	1.769	.062	4.1569E+05	.243	.064	1.4738E+05	.030	.118
1.7195E+06	1.759	.075	4.0837E+05	.226	.064	1.4355E+05	.027	.119
1.6333E+06	1.763	.061	4.0125E+05	.206	.064	1.3986E+05	.030	.117
1.4420E+06	1.713	.056	3.9431E+05	.188	.063	1.3631E+05	.028	.101
1.3113E+06	1.665	.065	3.8755E+05	.191	.071	1.3027E+05	.026	.083
1.2707E+06	1.673	.063	3.8096E+05	.180	.068	1.2400E+05	.024	.092
1.2320E+06	1.703	.063	3.7454E+05	.156	.092	1.2044E+05	.022	.113
1.1792E+06	1.661	.058	3.6828E+05	.143	.075	1.1760E+05	.020	.124
1.0954E+06	1.674	.064	3.6217E+05	.129	.069	1.1274E+05	.021	.109
1.0329E+06	1.668	.064	3.5354E+05	.124	.062	1.0768E+05	.022	.102
1.0045E+06	1.563	.071	3.4474E+05	.118	.070	1.0481E+05	.024	.173
9.2337E+05	1.540	.059	3.3921E+05	.106	.067	1.0250E+05	.017	.136
8.5616E+05	1.513	.087	3.3381E+05	.100	.068	1.0027E+05	.014	.155
8.3465E+05	1.475	.070	3.2616E+05	.099	.060	9.8107E+04	.020	.167
8.1395E+05	1.446	.064	3.1836E+05	.094	.072	9.4392E+04	.024	.166
7.8532E+05	1.445	.058	3.1345E+05	.095	.072	8.8177E+04	.023	.130
7.5627E+05	1.411	.081	3.0865E+05	.087	.073	8.3085E+04	.019	.182
7.3840E+05	1.320	.098	3.0396E+05	.077	.076	8.0181E+04	.021	.117
7.2115E+05	1.248	.071	2.9938E+05	.083	.074	7.7130E+04	.020	.105
6.9722E+05	1.199	.061	2.9490E+05	.081	.074	7.4251E+04	.020	.137

E(EV)	S(8)	DS/S	E(EV)	S(8)	DS/S	E(EV)	S(8)	DS/S
7.2601E+04	.018	.212	2.8163E+04	.C14	.270	1.5904E+04	.016	.262
7.1267E+04	.012	.209	2.7839E+04	.015	.338	1.5766E+04	.023	.199
6.9969E+04	.013	.193	2.7521E+04	.C13	.276	1.5630E+04	.018	.219
6.8707E+04	.022	.136	2.7208E+04	.011	.302	1.5349E+04	.013	.148
6.5038E+04	.018	.117	2.6900E+04	.010	.289	1.4999E+04	.014	.182
6.1802E+04	.019	.153	2.6597E+04	.C18	.353	1.4748E+04	.014	.188
6.0753E+04	.026	.180	2.6300E+04	.010	.469	1.4603E+04	.011	.376
5.9731E+04	.013	.181	2.5774E+04	.C11	.230	1.4349E+04	.014	.156
5.8734E+04	.017	.307	2.5437E+04	.010	.313	1.4032E+04	.015	.179
5.7762E+04	.020	.155	2.5159E+04	.C19	.329	1.3897E+04	.014	.292
5.6069E+04	.017	.181	2.4885E+04	.020	.197	1.3784E+04	.022	.228
5.4276E+04	.017	.190	2.4616E+04	.C17	.226	1.3673E+04	.025	.246
5.3245E+04	.018	.287	2.4351E+04	.C15	.213	1.3563E+04	.015	.300
5.2405E+04	.010	.257	2.4090E+04	.012	.257	1.3455E+04	.026	.388
5.0940E+04	.010	.232	2.3834E+04	.C11	.304	1.3348E+04	.019	.482
5.0002E+04	.010	.332	2.3581E+04	.008	.397	1.3156E+04	.012	.423
4.9238E+04	.007	.336	2.3135E+04	.C13	.203	1.2950E+04	.014	.351
4.8491E+04	.010	.279	2.2655E+04	.C09	.211	1.2830E+04	.020	.457
4.7761E+04	.013	.271	2.2377E+04	.C08	.422	1.2730E+04	.014	.578
4.6485E+04	.015	.204	2.2148E+04	.C11	.326	1.2552E+04	.014	.336
4.5667E+04	.010	.366	2.1922E+04	.020	.357	1.2437E+04	.029	.492
4.4295E+04	.013	.128	2.1699E+04	.C09	.389	1.2237E+04	.023	.295
4.2589E+04	.016	.232	2.1479E+04	.C07	.430	1.1988E+04	.013	.476
4.1399E+04	.014	.175	2.1263E+04	.C16	.483	1.1881E+04	.014	.790
4.0712E+04	.012	.246	2.0880E+04	.C14	.198	1.1792E+04	.024	.496
4.0150E+04	.014	.235	2.0635E+04	.C13	.286	1.1633E+04	.012	.355
3.9599E+04	.017	.213	2.0431E+04	.C11	.335	1.1531E+04	.011	.632
3.9060E+04	.013	.238	2.0231E+04	.010	.323	1.1446E+04	.027	.449
3.8113E+04	.014	.245	2.0033E+04	.C23	.258	1.1187E+04	.013	.260
3.7104E+04	.014	.183	1.9838E+04	.C16	.270	1.0856E+04	.015	.146
3.6521E+04	.019	.353	1.9647E+04	.C21	.360	1.0644E+04	.008	.505
3.6043E+04	.012	.390	1.9458E+04	.C07	.455	1.0507E+04	.011	.267
3.5575E+04	.009	.532	1.9271E+04	.012	.306	1.0360E+04	.014	.217
3.5115E+04	.015	.409	1.9088E+04	.C10	.319	1.0274E+04	.016	.341
3.4665E+04	.005	.932	1.8907E+04	.018	.262	1.0202E+04	.011	.418
3.4223E+04	.012	.376	1.8585E+04	.C11	.209	1.0132E+04	.014	.338
3.3789E+04	.010	.400	1.8379E+04	.011	.309	1.0061E+04	.020	.275
3.3363E+04	.015	.382	1.8207E+04	.C15	.252	9.9897E+03	.024	.198
3.2615E+04	.014	.188	1.7903E+04	.C12	.188	9.9587E+03	.020	.348
3.2134E+04	.015	.373	1.7708E+04	.012	.281	9.9022E+03	.012	.288
3.1740E+04	.009	.320	1.7546E+04	.C10	.319	9.8001E+03	.015	.189
3.0566E+04	.014	.141	1.7058E+04	.010	.177	9.7009E+03	.012	.307
2.9517E+04	.013	.244	1.6648E+04	.C08	.304	9.6632E+03	.009	.552
2.9170E+04	.021	.360	1.6355E+04	.011	.212	9.6369E+03	.014	.511
2.8828E+04	.016	.245	1.6185E+04	.C12	.332	9.6108E+03	.015	.467
2.8493E+04	.017	.282	1.6043E+04	.C10	.357	9.5848E+03	.017	.525

E(EV)	S(B)	OS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	OS/S
9.5589E+03	.011	.548	8.0373E+03	.C18	.395	6.8994E+03	.020	.358
9.5332E+03	.010	.566	8.0174E+03	.013	.530	6.8836E+03	.014	.461
9.5075E+03	.014	.464	7.9607E+03	.012	.240	6.8679E+03	.010	.615
9.4819E+03	.018	.370	7.8882E+03	.C16	.260	6.8224E+03	.012	.258
9.4419E+03	.019	.226	7.8610E+03	.020	.369	6.7650E+03	.016	.260
9.3788E+03	.014	.256	7.8417E+03	.C22	.380	6.7437E+03	.018	.427
9.3305E+03	.014	.415	7.8226E+03	.C16	.439	6.7284E+03	.035	.371
9.3057E+03	.020	.315	7.7922E+03	.C11	.310	6.7132E+03	.034	.344
9.2809E+03	.026	.285	7.7655E+03	.013	.564	6.6887E+03	.020	.286
9.2562E+03	.016	.375	7.7466E+03	.C20	.385	6.6678E+03	.024	.342
9.2317E+03	.013	.414	7.7278E+03	.C19	.429	6.6527E+03	.016	.412
9.2072E+03	.016	.408	7.6979E+03	.012	.291	6.6378E+03	.013	.496
9.1828E+03	.023	.326	7.6515E+03	.C15	.246	6.6136E+03	.014	.304
9.1585E+03	.027	.325	7.6054E+03	.019	.257	6.5931E+03	.015	.477
9.1343E+03	.015	.378	7.5797E+03	.C18	.372	6.5784E+03	.025	.354
9.1102E+03	.014	.433	7.5615E+03	.C24	.296	6.5636E+03	.033	.435
9.0420E+03	.016	.183	7.5434E+03	.038	.265	6.5490E+03	.025	.569
8.9542E+03	.022	.264	7.5253E+03	.C39	.293	6.5343E+03	.012	.567
8.8959E+03	.013	.262	7.5073E+03	.029	.296	6.5035E+03	.023	.217
8.8382E+03	.016	.250	7.4893E+03	.C29	.294	6.4023E+03	.016	.158
8.8056E+03	.013	.431	7.4714E+03	.023	.314	6.3079E+03	.015	.232
8.7828E+03	.019	.360	7.4536E+03	.C23	.351	6.2569E+03	.011	.378
8.7600E+03	.022	.368	7.4358E+03	.C19	.401	6.2381E+03	.009	.556
8.7374E+03	.014	.473	7.4181E+03	.C39	.236	6.2245E+03	.013	.489
8.7149E+03	.018	.347	7.4005E+03	.C59	.235	6.2110E+03	.014	.509
8.6683E+03	.021	.244	7.3829E+03	.032	.296	6.1890E+03	.015	.261
8.5845E+03	.014	.221	7.3654E+03	.C21	.426	6.1706E+03	.016	.429
8.5159E+03	.024	.383	7.3375E+03	.C16	.289	6.1572E+03	.012	.569
8.4942E+03	.030	.568	7.3133E+03	.C19	.398	6.1439E+03	.010	.636
8.4726E+03	.014	.533	7.2960E+03	.C25	.352	6.1306E+03	.011	.542
8.4511E+03	.034	.432	7.2788E+03	.C32	.336	6.1173E+03	.016	.460
8.4297E+03	.044	.487	7.2617E+03	.C26	.384	6.0892E+03	.019	.279
8.4083E+03	.019	.408	7.2446E+03	.019	.336	6.0648E+03	.021	.561
8.3870E+03	.013	.527	7.2276E+03	.C22	.349	6.0517E+03	.042	.628
8.3658E+03	.018	.434	7.2106E+03	.C24	.390	6.0387E+03	.027	.582
8.3447E+03	.031	.414	7.1937E+03	.015	.457	6.0258E+03	.014	.490
8.3237E+03	.024	.332	7.1667E+03	.C14	.264	6.0129E+03	.012	.538
8.2905E+03	.017	.238	7.1434E+03	.C18	.411	5.9752E+03	.012	.261
8.2610E+03	.020	.369	7.1267E+03	.C14	.489	5.9363E+03	.011	.849
8.2403E+03	.017	.366	7.1101E+03	.012	.504	5.9236E+03	.017	.684
8.2197E+03	.024	.337	7.0623E+03	.C13	.224	5.8968E+03	.025	.288
8.1991E+03	.030	.373	7.0018E+03	.C12	.331	5.8656E+03	.016	.347
8.1786E+03	.016	.408	6.9793E+03	.C13	.513	5.8487E+03	.018	.492
8.1361E+03	.013	.382	6.9632E+03	.C18	.356	5.8364E+03	.013	.581
8.0856E+03	.019	.229	6.9472E+03	.026	.317	5.8241E+03	.010	.697
8.0573E+03	.021	.335	6.9215E+03	.C19	.253	5.7881E+03	.015	.237

E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S
5.7510E+03	.012	.563	4.9722E+03	.024	.360	4.2635E+03	.023	.392
5.7390E+03	.015	.451	4.9625E+03	.020	.418	4.2504E+03	.016	.469
5.7270E+03	.023	.348	4.9529E+03	.014	.515	4.2405E+03	.017	.472
5.7150E+03	.018	.459	4.9242E+03	.012	.260	4.2329E+03	.015	.553
5.7031E+03	.014	.532	4.8955E+03	.012	.527	4.2253E+03	.030	.334
5.6912E+03	.018	.385	4.8861E+03	.014	.466	4.2177E+03	.040	.331
5.6794E+03	.025	.341	4.8767E+03	.022	.419	4.2101E+03	.020	.390
5.6676E+03	.020	.408	4.8673E+03	.029	.504	4.2026E+03	.030	.386
5.6558E+03	.015	.519	4.8579E+03	.019	.379	4.1951E+03	.063	.358
5.6440E+03	.013	.506	4.8300E+03	.014	.240	4.1876E+03	.084	.269
5.6096E+03	.012	.243	4.7839E+03	.018	.191	4.1801E+03	.061	.448
5.5520E+03	.017	.221	4.7385E+03	.017	.215	4.1726E+03	.027	.382
5.4952E+03	.013	.244	4.7115E+03	.017	.482	4.1562E+03	.025	.209
5.4611E+03	.014	.499	4.7026E+03	.021	.412	4.1280E+03	.014	.237
5.4499E+03	.026	.369	4.6937E+03	.033	.319	4.1012E+03	.017	.292
5.4388E+03	.037	.381	4.6848E+03	.043	.280	4.0919E+03	.019	.393
5.4277E+03	.040	.270	4.6760E+03	.027	.460	4.0846E+03	.027	.365
5.4167E+03	.014	.590	4.6495E+03	.016	.269	4.0774E+03	.018	.475
5.4057E+03	.018	.713	4.6234E+03	.025	.387	4.0702E+03	.019	.447
5.3947E+03	.049	.267	4.6147E+03	.043	.361	4.0631E+03	.025	.365
5.3838E+03	.074	.317	4.6060E+03	.048	.244	4.0559E+03	.029	.448
5.3729E+03	.069	.349	4.5974E+03	.018	.539	4.0488E+03	.018	.473
5.3620E+03	.031	.384	4.5888E+03	.016	.502	4.0417E+03	.014	.517
5.3512E+03	.023	.340	4.5802E+03	.027	.319	4.0346E+03	.026	.389
5.3404E+03	.053	.235	4.5717E+03	.037	.355	4.0275E+03	.044	.346
5.3296E+03	.049	.338	4.5631E+03	.019	.445	4.0204E+03	.050	.552
5.3189E+03	.021	.540	4.5546E+03	.012	.609	4.0134E+03	.039	.313
5.2766E+03	.017	.200	4.5461E+03	.011	.572	4.0064E+03	.018	.529
5.2377E+03	.026	.204	4.5207E+03	.013	.244	3.9994E+03	.014	.512
5.2237E+03	.022	.373	4.4519E+03	.015	.167	3.9924E+03	.018	.444
5.2132E+03	.022	.382	4.4079E+03	.015	.320	3.9769E+03	.031	.302
5.2028E+03	.017	.400	4.3974E+03	.016	.454	3.9597E+03	.022	.311
5.1721E+03	.013	.226	4.3893E+03	.012	.597	3.9425E+03	.014	.339
5.1411E+03	.024	.354	4.3813E+03	.011	.773	3.9254E+03	.015	.293
5.1310E+03	.034	.333	4.3733E+03	.017	.459	3.9168E+03	.021	.398
5.1208E+03	.024	.326	4.3653E+03	.043	.224	3.9100E+03	.035	.343
5.1107E+03	.021	.363	4.3574E+03	.064	.229	3.9033E+03	.053	.255
5.1006E+03	.018	.454	4.3494E+03	.021	.448	3.8966E+03	.040	.327
5.0839E+03	.012	.367	4.3415E+03	.011	.736	3.8898E+03	.020	.454
5.0705E+03	.012	.563	4.3281E+03	.014	.293	3.8831E+03	.017	.521
5.0606E+03	.014	.455	4.3179E+03	.017	.457	3.8765E+03	.017	.444
5.0506E+03	.027	.441	4.3100E+03	.019	.591	3.8698E+03	.023	.386
5.0407E+03	.042	.534	4.3022E+03	.011	.702	3.8495E+03	.023	.208
5.0309E+03	.028	.358	4.2890E+03	.014	.377	3.8166E+03	.013	.280
5.0095E+03	.014	.332	4.2789E+03	.018	.451	3.7976E+03	.018	.896
4.9851E+03	.017	.290	4.2712E+03	.028	.372	3.7912E+03	.029	.326



E (EV)	S(B)	OS/S	E (EV)	S(B)	OS/S	E (EV)	S(B)	OS/S
3.7847E+03	.023	.431	3.4042E+03	.C61	.246	3.0736E+03	.037	.414
3.7783E+03	.014	.566	3.3987E+03	.118	.223	3.0688E+03	.035	.325
3.7719E+03	.019	.435	3.3932E+03	.071	.250	3.0627E+03	.039	.334
3.7655E+03	.020	.443	3.3878E+03	.C29	.368	3.0548E+03	.020	.450
3.7591E+03	.013	.886	3.3823E+03	.032	.354	3.0501E+03	.024	.444
3.7527E+03	.012	.596	3.3769E+03	.019	.583	3.0455E+03	.016	.503
3.7464E+03	.015	.541	3.3715E+03	.C15	.524	3.0394E+03	.016	.309
3.7401E+03	.022	.393	3.3661E+03	.C17	.490	3.0316E+03	.016	.461
3.7291E+03	.026	.221	3.3607E+03	.C24	.395	3.0270E+03	.024	.440
3.7134E+03	.016	.311	3.3553E+03	.026	.356	3.0224E+03	.020	.469
3.7024E+03	.018	.479	3.3499E+03	.C20	.440	3.0164E+03	.022	.325
3.6962E+03	.024	.495	3.3446E+03	.016	.524	2.9988E+03	.016	.244
3.6900E+03	.033	.640	3.3392E+03	.020	.468	2.9860E+03	.014	.545
3.6838E+03	.018	.504	3.3339E+03	.C38	.357	2.9815E+03	.017	.478
3.6776E+03	.044	.359	3.3286E+03	.C42	.334	2.9770E+03	.022	.437
3.6715E+03	.068	.244	3.3233E+03	.C30	.623	2.9711E+03	.019	.297
3.6653E+03	.043	.314	3.3180E+03	.059	.320	2.9539E+03	.017	.233
3.6592E+03	.027	.410	3.3127E+03	.C33	.379	2.9318E+03	.024	.188
3.6531E+03	.015	.496	3.3075E+03	.015	.596	2.9100E+03	.019	.207
3.6470E+03	.018	.447	3.2981E+03	.C20	.359	2.8978E+03	.020	.496
3.6364E+03	.025	.225	3.2865E+03	.C21	.426	2.8935E+03	.033	.355
3.6288E+03	.026	.347	3.2813E+03	.014	.552	2.8892E+03	.079	.318
3.6228E+03	.020	.402	3.2761E+03	.C15	.525	2.8849E+03	.132	.361
3.6168E+03	.015	.553	3.2710E+03	.030	.386	2.8806E+03	.092	.202
3.5982E+03	.016	.275	3.2658E+03	.C40	.412	2.8670E+03	.025	.193
3.5809E+03	.018	.450	3.2606E+03	.C20	.541	2.8551E+03	.034	.453
3.5750E+03	.026	.518	3.2555E+03	.C16	.489	2.8509E+03	.031	.459
3.5691E+03	.072	.409	3.2395E+03	.C21	.228	2.8467E+03	.022	.468
3.5632E+03	.092	.222	3.2249E+03	.014	.596	2.8412E+03	.017	.264
3.5574E+03	.025	.405	3.2199E+03	.C21	.426	2.8250E+03	.014	.276
3.5515E+03	.032	.320	3.2149E+03	.036	.318	2.8044E+03	.016	.249
3.5457E+03	.026	.395	3.2098E+03	.C46	.409	2.7929E+03	.018	.486
3.5399E+03	.017	.529	3.2048E+03	.034	.359	2.7889E+03	.016	.524
3.5325E+03	.021	.280	3.1998E+03	.032	.360	2.7848E+03	.022	.467
3.5103E+03	.014	.247	3.1948E+03	.C59	.226	2.7807E+03	.030	.455
3.4937E+03	.014	.530	3.1898E+03	.078	.218	2.7767E+03	.017	.514
3.4880E+03	.015	.569	3.1848E+03	.C55	.268	2.7637E+03	.017	.242
3.4824E+03	.020	.447	3.1798E+03	.033	.384	2.7438E+03	.019	.259
3.4752E+03	.025	.226	3.1710E+03	.C33	.220	2.7294E+03	.016	.349
3.4654E+03	.047	.294	3.1601E+03	.C28	.545	2.7209E+03	.019	.454
3.4597E+03	.083	.280	3.1552E+03	.C14	.698	2.7170E+03	.035	.340
3.4541E+03	.110	.181	3.1238E+03	.C17	.212	2.7131E+03	.050	.306
3.4485E+03	.061	.234	3.0982E+03	.015	.336	2.7092E+03	.065	.345
3.4429E+03	.030	.349	3.0877E+03	.C21	.449	2.7053E+03	.102	.445
3.4256E+03	.020	.287	3.0830E+03	.052	.338	2.7001E+03	.079	.185
3.4097E+03	.022	.485	3.0783E+03	.075	.358	2.6937E+03	.068	.495

E (EV)	S (S)	OS/S	E (EV)	S (S)	OS/S	E (EV)	S (S)	OS/S
2.6898E+03	.024	.475	2.3801E+03	.021	.502	1.9703E+03	.041	.705
2.6860E+03	.019	.543	2.3740E+03	.038	.231	1.9679E+03	.021	.773
2.6808E+03	.018	.354	2.3674E+03	.060	.377	1.9643E+03	.016	.559
2.6745E+03	.021	.446	2.3642E+03	.142	.368	1.9583E+03	.039	.462
2.6706E+03	.021	.443	2.3610E+03	.058	.281	1.9511E+03	.789	.173
2.6668E+03	.026	.414	2.3578E+03	.031	.360	1.9464E+03	.070	.632
2.6617E+03	.026	.263	2.3547E+03	.053	.353	1.9440E+03	.035	.631
2.6555E+03	.024	.445	2.3502E+03	.062	.245	1.9416E+03	.058	.589
2.6517E+03	.044	.456	2.3452E+03	.054	.379	1.9393E+03	.027	.688
2.6479E+03	.078	.537	2.3421E+03	.041	.541	1.9312E+03	.023	.600
2.6441E+03	.064	.282	2.3390E+03	.035	.438	1.9118E+03	.018	.318
2.6404E+03	.026	.394	2.3358E+03	.034	.345	1.8888E+03	.019	.307
2.6334E+03	.023	.258	2.3327E+03	.046	.334	1.8771E+03	.032	.704
2.6255E+03	.023	.450	2.3296E+03	.057	.328	1.8748E+03	.053	.694
2.6217E+03	.015	.540	2.3265E+03	.039	.451	1.8714E+03	.021	.501
2.6097E+03	.018	.234	2.3234E+03	.042	.337	1.8403E+03	.018	.201
2.5996E+03	.023	.572	2.3203E+03	.060	.278	1.8113E+03	.023	.598
2.5960E+03	.016	.553	2.3172E+03	.040	.369	1.8072E+03	.086	.368
2.5923E+03	.017	.520	2.3142E+03	.028	.416	1.8051E+03	.133	.323
2.5873E+03	.021	.282	2.3111E+03	.030	.445	1.8007E+03	.120	.260
2.5783E+03	.019	.304	2.3080E+03	.022	.473	1.7945E+03	.022	.838
2.5692E+03	.028	.240	2.3037E+03	.022	.322	1.7872E+03	.024	.368
2.5634E+03	.034	.413	2.2918E+03	.021	.236	1.7798E+03	.022	.570
2.5598E+03	.052	.298	2.2767E+03	.017	.241	1.7737E+03	.163	.523
2.5562E+03	.119	.222	2.2715E+03	.016	.133	1.7665E+03	.016	.800
2.5526E+03	.160	.195	2.1658E+03	.016	.190	1.7593E+03	.025	.745
2.5491E+03	.124	.231	2.1382E+03	.020	.235	1.7573E+03	.036	.679
2.5455E+03	.087	.228	2.1111E+03	.018	.312	1.7541E+03	.019	.496
2.5420E+03	.037	.337	2.0933E+03	.025	.418	1.7491E+03	.020	.527
2.5384E+03	.019	.530	2.0864E+03	.066	.639	1.7452E+03	.079	.433
2.5336E+03	.016	.364	2.0837E+03	.029	.688	1.7431E+03	.226	.417
2.5199E+03	.017	.250	2.0811E+03	.023	.823	1.7391E+03	.021	.846
2.5104E+03	.018	.488	2.0773E+03	.024	.562	1.7371E+03	.028	.842
2.5069E+03	.031	.388	2.0584E+03	.017	.322	1.7340E+03	.020	.569
2.5035E+03	.067	.447	2.0328E+03	.015	.395	1.7195E+03	.019	.332
2.5000E+03	.080	.697	2.0196E+03	.017	.573	1.7094E+03	.027	.784
2.4966E+03	.017	.509	2.0133E+03	.027	.477	1.7075E+03	.048	.521
2.4740E+03	.017	.215	2.0096E+03	.032	.645	1.7056E+03	.048	.569
2.4561E+03	.016	.372	2.0071E+03	.035	.727	1.7036E+03	.021	.881
2.4477E+03	.023	.326	2.0046E+03	.016	.974	1.6968E+03	.022	.380
2.4393E+03	.017	.325	2.0009E+03	.019	.616	1.6871E+03	.035	.388
2.4323E+03	.027	.410	1.9912E+03	.015	.506	1.6776E+03	.020	.410
2.4290E+03	.037	.398	1.9825E+03	.020	.676	1.6618E+03	.019	.306
2.4073E+03	.017	.184	1.9776E+03	.055	.658	1.6522E+03	.020	.559
2.3901E+03	.025	.263	1.9752E+03	.015	1.151	1.6486E+03	.021	.874
2.3834E+03	.016	.572	1.9727E+03	.025	.724	1.6468E+03	.028	.654

E (EV)	S(B)	DS/S	E (EV)	S(B)	DS/S	E (EV)	S(B)	DS/S
1.6449E+03	.055	.454	1.4500E+03	.025	.304	1.3119E+03	.056	.200
1.6431E+03	.118	.469	1.4462E+03	.C18	.334	1.3086E+03	.067	.174
1.6413E+03	.132	.239	1.4402E+03	.C22	.224	1.3063E+03	.062	.340
1.6383E+03	.058	.250	1.4352E+03	.030	.504	1.3050E+03	.040	.466
1.6311E+03	.024	.213	1.4337E+03	.C31	.408	1.3037E+03	.036	.405
1.6247E+03	.028	.268	1.4322E+03	.040	.367	1.3021E+03	.038	.257
1.6212E+03	.035	.365	1.4307E+03	.C73	.434	1.2998E+03	.055	.553
1.6194E+03	.024	.545	1.4292E+03	.134	.577	1.2986E+03	.022	.481
1.6176E+03	.020	.695	1.4277E+03	.216	.489	1.2973E+03	.034	.447
1.6158E+03	.026	.703	1.4262E+03	.289	.144	1.2956E+03	.048	.256
1.6140E+03	.039	.417	1.4247E+03	.206	.225	1.2924E+03	.035	.227
1.6122E+03	.048	.391	1.4232E+03	.152	.425	1.2892E+03	.047	.228
1.6105E+03	.071	.295	1.4199E+03	.038	.233	1.2870E+03	.028	.427
1.6087E+03	.066	.315	1.4163E+03	.C29	.291	1.2857E+03	.024	.477
1.6069E+03	.039	.350	1.4143E+03	.C22	.467	1.2844E+03	.032	.412
1.6051E+03	.034	.395	1.4129E+03	.C30	.471	1.2832E+03	.051	.360
1.6022E+03	.023	.321	1.4114E+03	.C30	.435	1.2819E+03	.062	.374
1.5893E+03	.018	.209	1.4089E+03	.C29	.322	1.2806E+03	.059	.713
1.5778E+03	.017	.318	1.4070E+03	.C41	.513	1.2794E+03	.047	.385
1.5691E+03	.013	.321	1.4031E+03	.024	.226	1.2781E+03	.099	.338
1.5633E+03	.019	.568	1.3959E+03	.C19	.260	1.2768E+03	.186	.190
1.5616E+03	.035	.330	1.3908E+03	.C22	.349	1.2756E+03	.190	.262
1.5588E+03	.055	.229	1.3872E+03	.C29	.266	1.2743E+03	.261	.242
1.5521E+03	.027	.242	1.3837E+03	.028	.269	1.2731E+03	.310	.195
1.5380E+03	.021	.174	1.3801E+03	.C19	.350	1.2718E+03	.274	.192
1.5270E+03	.017	.268	1.3745E+03	.C15	.284	1.2706E+03	.250	.365
1.5215E+03	.021	.545	1.3696E+03	.018	.347	1.2693E+03	.189	.172
1.5198E+03	.034	.409	1.3671E+03	.C18	.608	1.2681E+03	.068	.281
1.5182E+03	.057	.296	1.3657E+03	.022	.490	1.2668E+03	.041	.394
1.5166E+03	.064	.399	1.3626E+03	.046	.269	1.2656E+03	.044	.435
1.5149E+03	.028	.408	1.3601E+03	.C50	.345	1.2640E+03	.035	.248
1.5052E+03	.021	.176	1.3587E+03	.041	.369	1.2609E+03	.027	.314
1.4969E+03	.021	.332	1.3573E+03	.C31	.372	1.2578E+03	.031	.297
1.4929E+03	.024	.287	1.3560E+03	.038	.354	1.2557E+03	.048	.376
1.4908E+03	.031	.388	1.3546E+03	.C47	.360	1.2545E+03	.033	.390
1.4892E+03	.038	.357	1.3532E+03	.042	.391	1.2532E+03	.036	.419
1.4876E+03	.028	.436	1.3518E+03	.C23	.495	1.2520E+03	.044	.379
1.4860E+03	.025	.472	1.3421E+03	.C27	.158	1.2508E+03	.069	.348
1.4844E+03	.038	.426	1.3331E+03	.034	.200	1.2496E+03	.049	.316
1.4810E+03	.064	.284	1.3285E+03	.C39	.257	1.2483E+03	.027	.451
1.4771E+03	.036	.261	1.3251E+03	.024	.302	1.2471E+03	.035	.528
1.4732E+03	.025	.350	1.3221E+03	.C61	.526	1.2459E+03	.058	.607
1.4703E+03	.022	.511	1.3208E+03	.162	.647	1.2447E+03	.029	.418
1.4688E+03	.029	.403	1.3185E+03	.262	.328	1.2435E+03	.034	.393
1.4672E+03	.034	.421	1.3155E+03	.129	.207	1.2423E+03	.038	.512
1.4579E+03	.022	.171	1.3142E+03	.084	.325	1.2411E+03	.080	.487

E(EV)	S(B)	OS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	OS/S
1.2395E+03	.124	.255	1.1307E+03	.041	.382	1.0731E+03	.042	.399
1.2365E+03	.028	.313	1.1296E+03	.065	.299	1.0721E+03	.034	.489
1.2335E+03	.028	.272	1.1286E+03	.048	.380	1.0712E+03	.021	.552
1.2315E+03	.025	.521	1.1271E+03	.043	.274	1.0702E+03	.019	.582
1.2303E+03	.029	.471	1.1254E+03	.026	.517	1.0692E+03	.019	.621
1.2291E+03	.046	.383	1.1244E+03	.039	.387	1.0683E+03	.027	.502
1.2279E+03	.053	.501	1.1233E+03	.059	.364	1.0653E+03	.043	.198
1.2267E+03	.024	.586	1.1223E+03	.110	.228	1.0621E+03	.024	.322
1.2245E+03	.021	.356	1.1213E+03	.211	.172	1.0606E+03	.021	.616
1.2198E+03	.019	.263	1.1202E+03	.335	.146	1.0596E+03	.029	.445
1.2139E+03	.029	.208	1.1192E+03	.351	.147	1.0587E+03	.038	.355
1.2081E+03	.033	.201	1.1182E+03	.293	.205	1.0577E+03	.063	.369
1.2041E+03	.035	.321	1.1171E+03	.166	.187	1.0568E+03	.096	.476
1.2022E+03	.033	.468	1.1161E+03	.176	.463	1.0558E+03	.110	.387
1.2010E+03	.044	.553	1.1151E+03	.246	.769	1.0549E+03	.105	.428
1.1998E+03	.026	.504	1.1140E+03	.036	.437	1.0539E+03	.073	.646
1.1927E+03	.018	.197	1.1130E+03	.030	.453	1.0530E+03	.029	.552
1.1813E+03	.022	.184	1.1100E+03	.029	.205	1.0521E+03	.042	.361
1.1702E+03	.018	.207	1.1065E+03	.030	.254	1.0511E+03	.061	.329
1.1646E+03	.022	.368	1.1049E+03	.024	.527	1.0502E+03	.047	.388
1.1628E+03	.025	.493	1.1038E+03	.040	.390	1.0492E+03	.044	.370
1.1617E+03	.042	.363	1.1028E+03	.047	.383	1.0483E+03	.047	.478
1.1607E+03	.143	.197	1.1014E+03	.037	.238	1.0473E+03	.025	.543
1.1592E+03	.320	.235	1.0998E+03	.031	.470	1.0464E+03	.025	.633
1.1574E+03	.394	.133	1.0989E+03	.031	.451	1.0455E+03	.039	.423
1.1563E+03	.433	.176	1.0978E+03	.053	.299	1.0446E+03	.064	.381
1.1552E+03	.276	.278	1.0964E+03	.080	.178	1.0436E+03	.040	.459
1.1541E+03	.134	.410	1.0949E+03	.093	.272	1.0427E+03	.044	.371
1.1530E+03	.040	.364	1.0939E+03	.122	.308	1.0418E+03	.077	.367
1.1520E+03	.058	.326	1.0928E+03	.076	.269	1.0408E+03	.144	.465
1.1509E+03	.042	.486	1.0914E+03	.051	.258	1.0399E+03	.253	.381
1.1498E+03	.045	.422	1.0898E+03	.029	.517	1.0390E+03	.296	.178
1.1483E+03	.042	.241	1.0888E+03	.018	.640	1.0381E+03	.183	.194
1.1466E+03	.042	.383	1.0878E+03	.017	.655	1.0371E+03	.185	.251
1.1455E+03	.041	.440	1.0864E+03	.018	.392	1.0362E+03	.151	.269
1.1444E+03	.083	.483	1.0848E+03	.027	.451	1.0353E+03	.115	.529
1.1434E+03	.078	.586	1.0839E+03	.032	.436	1.0339E+03	.103	.191
1.1423E+03	.039	.515	1.0829E+03	.022	.545	1.0316E+03	.072	.190
1.1412E+03	.052	.360	1.0815E+03	.021	.343	1.0298E+03	.055	.407
1.1402E+03	.083	.323	1.0799E+03	.028	.435	1.0289E+03	.042	.368
1.1391E+03	.124	.347	1.0789E+03	.036	.405	1.0271E+03	.043	.228
1.1381E+03	.178	.189	1.0780E+03	.042	.436	1.0233E+03	.040	.189
1.1370E+03	.109	.242	1.0770E+03	.029	.550	1.0203E+03	.035	.256
1.1350E+03	.056	.199	1.0760E+03	.017	.629	1.0189E+03	.033	.584
1.1328E+03	.040	.557	1.0750E+03	.017	.620	1.0180E+03	.032	.480
1.1317E+03	.029	.434	1.0741E+03	.026	.466	1.0171E+03	.043	.385

E (EV)	S (E)	OS/S	E (EV)	S (E)	OS/S	E (EV)	S (E)	OS/S
1.0158E+03	.051	.264	8.8162E+02	.157	.172	7.8836E+02	.035	.228
1.0135E+03	.032	.252	8.7982E+02	.087	.240	7.8537E+02	.036	.366
1.0113E+03	.024	.329	8.7802E+02	.116	.216	7.8385E+02	.025	.495
1.0100E+03	.026	.495	8.7622E+02	.357	.222	7.8227E+02	.025	.259
1.0091E+03	.038	.506	8.7439E+02	.363	.144	7.7926E+02	.029	.249
1.0082E+03	.025	.574	8.7087E+02	.163	.194	7.7626E+02	.037	.250
1.0055E+03	.019	.289	8.6910E+02	.074	.366	7.7334E+02	.023	.482
1.0025E+03	.023	.345	8.6733E+02	.046	.316	7.7185E+02	.027	.401
1.0003E+03	.028	.371	8.6556E+02	.072	.297	7.7031E+02	.029	.251
9.9891E+02	.020	.447	8.6381E+02	.055	.266	7.6743E+02	.033	.344
9.9673E+02	.019	.532	8.6206E+02	.039	.353	7.6596E+02	.023	.479
9.9456E+02	.037	.346	8.6031E+02	.028	.357	7.6443E+02	.023	.273
9.9240E+02	.032	.409	8.5857E+02	.058	.335	7.5950E+02	.026	.215
9.9024E+02	.025	.416	8.5679E+02	.051	.184	7.5574E+02	.033	.240
9.8808E+02	.021	.289	8.5333E+02	.040	.184	7.5294E+02	.032	.400
9.8381E+02	.020	.486	8.4989E+02	.034	.227	7.5152E+02	.040	.344
9.8168E+02	.026	.428	8.4653E+02	.056	.357	7.5010E+02	.041	.370
9.7664E+02	.025	.207	8.4483E+02	.027	.464	7.4858E+02	.029	.404
9.7112E+02	.039	.219	8.4308E+02	.032	.234	7.4719E+02	.032	.242
9.6697E+02	.024	.442	8.3976E+02	.025	.422	7.4438E+02	.027	.260
9.6489E+02	.015	.537	8.3808E+02	.021	.502	7.4165E+02	.038	.502
9.6282E+02	.021	.507	8.3635E+02	.020	.298	7.4026E+02	.024	.466
9.6076E+02	.028	.525	8.3307E+02	.025	.414	7.3887E+02	.024	.449
9.5869E+02	.029	.267	8.3141E+02	.031	.407	7.3748E+02	.031	.411
9.5180E+02	.024	.223	8.2976E+02	.026	.408	7.3603E+02	.027	.275
9.4373E+02	.025	.217	8.2811E+02	.020	.466	7.3136E+02	.026	.231
9.3576E+02	.026	.210	8.2646E+02	.024	.470	7.2781E+02	.027	.289
9.3059E+02	.030	.247	8.2482E+02	.017	.494	7.2518E+02	.038	.350
9.2670E+02	.021	.461	8.2087E+02	.019	.265	7.2383E+02	.050	.385
9.2476E+02	.019	.492	8.1670E+02	.023	.440	7.2249E+02	.090	.265
9.2282E+02	.022	.447	8.1509E+02	.054	.355	7.2115E+02	.149	.200
9.2088E+02	.034	.381	8.1348E+02	.029	.393	7.1981E+02	.294	.179
9.1892E+02	.034	.219	8.1189E+02	.032	.393	7.1848E+02	.214	.167
9.1508E+02	.033	.224	8.1029E+02	.196	.184	7.1715E+02	.137	.199
9.1130E+02	.034	.373	8.0869E+02	.394	.210	7.1582E+02	.104	.208
9.0940E+02	.024	.419	8.0710E+02	.404	.117	7.1450E+02	.031	.548
9.0488E+02	.023	.237	8.0552E+02	.151	.207	7.1318E+02	.026	.397
8.9997E+02	.022	.307	8.0394E+02	.046	.287	7.1187E+02	.082	.295
8.9628E+02	.024	.590	8.0237E+02	.039	.351	7.1056E+02	.091	.295
8.9443E+02	.046	.339	8.0074E+02	.035	.223	7.0925E+02	.055	.276
8.9258E+02	.062	.249	7.9768E+02	.049	.334	7.0795E+02	.063	.271
8.9074E+02	.047	.298	7.9612E+02	.054	.281	7.0657E+02	.045	.220
8.8891E+02	.106	.196	7.9458E+02	.042	.331	7.0406E+02	.059	.282
8.8708E+02	.296	.162	7.9303E+02	.036	.332	7.0277E+02	.047	.321
8.8525E+02	.362	.123	7.9149E+02	.031	.350	7.0148E+02	.067	.261
8.8344E+02	.280	.154	7.8995E+02	.041	.318	7.0020E+02	.045	.365

E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S
6.9892E+02	.044	.314	6.3255E+02	.C42	.318	5.6859E+02	.073	.276
6.9765E+02	.060	.520	6.3145E+02	.063	.283	5.6765E+02	.049	.350
6.9638E+02	.037	.350	6.3036E+02	.C44	.325	5.6672E+02	.034	.398
6.9511E+02	.046	.300	6.2927E+02	.027	.480	5.6436E+02	.041	.187
6.9384E+02	.048	.344	6.2809E+02	.C31	.267	5.6209E+02	.039	.408
6.9258E+02	.035	.343	6.2591E+02	.C30	.256	5.6117E+02	.062	.284
6.9124E+02	.029	.261	6.2379E+02	.C22	.313	5.6025E+02	.059	.270
6.8882E+02	.044	.327	6.2160E+02	.C20	.315	5.5934E+02	.050	.341
6.8757E+02	.049	.331	6.1956E+02	.025	.450	5.5832E+02	.052	.207
6.8624E+02	.038	.232	6.1850E+02	.C32	.389	5.5660E+02	.107	.232
6.8376E+02	.030	.274	6.1744E+02	.032	.403	5.5570E+02	.056	.323
6.8130E+02	.024	.287	6.1639E+02	.C22	.515	5.5479E+02	.085	.310
6.7893E+02	.031	.374	6.1522E+02	.C27	.271	5.5389E+02	.056	.323
6.7771E+02	.050	.296	6.1312E+02	.C25	.294	5.5289E+02	.071	.177
6.7649E+02	.067	.310	6.1112E+02	.C32	.402	5.4982E+02	.052	.168
6.7528E+02	.038	.342	6.1009E+02	.042	.362	5.4764E+02	.083	.267
6.7407E+02	.035	.439	6.0894E+02	.C39	.246	5.4675E+02	.062	.280
6.7286E+02	.045	.315	6.0687E+02	.C28	.294	5.4587E+02	.045	.369
6.7165E+02	.163	.323	6.0335E+02	.C24	.230	5.4499E+02	.036	.389
6.7045E+02	.320	.142	6.0082E+02	.C34	.378	5.4411E+02	.037	.398
6.6926E+02	.471	.132	5.9980E+02	.023	.466	5.4324E+02	.059	.302
6.6806E+02	.406	.157	5.9869E+02	.C27	.252	5.4236E+02	.052	.364
6.6687E+02	.325	.255	5.9524E+02	.C27	.217	5.4149E+02	.032	.462
6.6568E+02	.145	.286	5.9266E+02	.C24	.294	5.4062E+02	.028	.445
6.6450E+02	.093	.262	5.9077E+02	.C33	.400	5.3976E+02	.041	.360
6.6331E+02	.077	.280	5.8979E+02	.C87	.227	5.3889E+02	.035	.387
6.6213E+02	.068	.276	5.8879E+02	.C61	.308	5.3803E+02	.053	.313
6.6096E+02	.037	.387	5.8780E+02	.052	.289	5.3583E+02	.047	.181
6.5970E+02	.058	.200	5.8682E+02	.C94	.218	5.3374E+02	.046	.264
6.5745E+02	.076	.281	5.8584E+02	.313	.127	5.3289E+02	.062	.326
6.5629E+02	.C56	.363	5.8486E+02	.185	.155	5.3204E+02	.035	.399
6.5513E+02	.039	.422	5.8388E+02	.151	.191	5.3119E+02	.030	.413
6.5397E+02	.031	.374	5.8291E+02	.275	.130	5.3035E+02	.029	.455
6.5110E+02	.032	.185	5.8194E+02	.C44	.304	5.2951E+02	.039	.379
6.4823E+02	.039	.323	5.8097E+02	.053	.285	5.2866E+02	.069	.278
6.4709E+02	.053	.382	5.8000E+02	.116	.213	5.2783E+02	.052	.355
6.4586E+02	.050	.218	5.7904E+02	.163	.177	5.2568E+02	.041	.190
6.4364E+02	.050	.325	5.7809E+02	.C55	.326	5.2366E+02	.051	.321
6.4256E+02	.035	.390	5.7712E+02	.C54	.293	5.2283E+02	.070	.251
6.4144E+02	.044	.358	5.7616E+02	.C41	.373	5.2201E+02	.052	.343
6.4032E+02	.028	.387	5.7510E+02	.C37	.233	5.2119E+02	.039	.362
6.3920E+02	.027	.415	5.7330E+02	.041	.350	5.1908E+02	.045	.184
6.3808E+02	.036	.330	5.7236E+02	.C79	.317	5.1699E+02	.041	.234
6.3688E+02	.046	.209	5.7141E+02	.035	.467	5.1548E+02	.033	.442
6.3476E+02	.042	.358	5.7047E+02	.C28	.603	5.1467E+02	.023	.531
6.3365E+02	.029	.395	5.6953E+02	.C75	.320	5.1375E+02	.024	.407

E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S
5.1226E+02	.027	.465	4.6877E+02	.068	.370	4.2692E+02	.761	.105
5.1146E+02	.038	.369	4.6807E+02	.044	.322	4.2631E+02	.403	.148
5.0940E+02	.039	.196	4.6737E+02	.053	.318	4.2570E+02	.278	.138
5.0737E+02	.042	.248	4.6668E+02	.067	.262	4.2510E+02	.205	.164
5.0591E+02	.045	.360	4.6598E+02	.055	.332	4.2449E+02	.139	.223
5.0512E+02	.061	.286	4.6529E+02	.072	.332	4.2389E+02	.164	.170
5.0434E+02	.061	.292	4.6448E+02	.065	.233	4.2329E+02	.230	.206
5.0356E+02	.047	.345	4.6310E+02	.052	.219	4.2268E+02	.196	.243
5.0267E+02	.035	.239	4.6184E+02	.077	.283	4.2208E+02	.081	.252
5.0122E+02	.034	.383	4.6115E+02	.051	.492	4.2149E+02	.143	.189
5.0045E+02	.056	.306	4.6035E+02	.054	.226	4.2077E+02	.159	.164
4.9968E+02	.055	.300	4.5899E+02	.034	.274	4.1970E+02	.076	.262
4.9891E+02	.032	.437	4.5775E+02	.080	.275	4.1911E+02	.084	.343
4.9802E+02	.030	.273	4.5707E+02	.052	.340	4.1840E+02	.118	.166
4.9660E+02	.043	.357	4.5640E+02	.037	.380	4.1733E+02	.046	.303
4.9584E+02	.052	.320	4.5573E+02	.030	.497	4.1674E+02	.072	.252
4.9497E+02	.039	.243	4.5506E+02	.033	.402	4.1616E+02	.101	.245
4.9345E+02	.029	.291	4.5439E+02	.056	.342	4.1557E+02	.118	.316
4.9193E+02	.026	.297	4.5360E+02	.053	.212	4.1499E+02	.077	.261
4.9043E+02	.035	.252	4.5227E+02	.060	.199	4.1440E+02	.063	.293
4.8904E+02	.032	.386	4.5094E+02	.038	.235	4.1370E+02	.048	.224
4.8830E+02	.044	.346	4.4974E+02	.043	.354	4.1266E+02	.071	.278
4.8744E+02	.036	.245	4.4908E+02	.052	.327	4.1208E+02	.027	.592
4.8607E+02	.034	.419	4.4842E+02	.052	.325	4.1150E+02	.053	.354
4.8533E+02	.023	.604	4.4777E+02	.035	.419	4.1093E+02	.042	.357
4.8448E+02	.025	.303	4.4700E+02	.025	.303	4.1035E+02	.037	.393
4.8312E+02	.037	.368	4.4581E+02	.034	.357	4.0978E+02	.027	.435
4.8239E+02	.062	.319	4.4516E+02	.041	.360	4.0921E+02	.029	.388
4.8166E+02	.032	.434	4.4451E+02	.035	.592	4.0864E+02	.041	.333
4.8093E+02	.021	.529	4.4386E+02	.021	.543	4.0795E+02	.039	.218
4.8020E+02	.026	.394	4.4310E+02	.021	.329	4.0681E+02	.025	.283
4.7947E+02	.035	.390	4.4182E+02	.024	.309	4.0485E+02	.032	.205
4.7875E+02	.031	.395	4.4053E+02	.034	.259	4.0260E+02	.039	.206
4.7802E+02	.022	.480	4.3926E+02	.033	.260	4.0038E+02	.034	.200
4.7730E+02	.026	.588	4.3811E+02	.061	.358	3.9817E+02	.023	.247
4.7658E+02	.258	.149	4.3747E+02	.031	.467	3.9598E+02	.019	.268
4.7586E+02	.386	.120	4.3673E+02	.038	.319	3.9381E+02	.020	.254
4.7515E+02	.315	.153	4.3547E+02	.024	.350	3.9245E+02	.022	.316
4.7443E+02	.144	.214	4.3421E+02	.020	.340	3.9150E+02	.026	.405
4.7372E+02	.062	.277	4.3308E+02	.021	.501	3.9097E+02	.046	.327
4.7301E+02	.030	.393	4.3246E+02	.028	.427	3.9043E+02	.040	.353
4.7230E+02	.080	.281	4.3081E+02	.024	.250	3.8990E+02	.029	.460
4.7159E+02	.248	.184	4.2937E+02	.024	.453	3.8925E+02	.023	.296
4.7088E+02	.227	.305	4.2875E+02	.086	.576	3.8741E+02	.028	.218
4.7018E+02	.069	.238	4.2814E+02	.353	.205	3.8608E+02	.027	.270
4.6948E+02	.063	.279	4.2753E+02	.797	.125	3.8504E+02	.049	.208

E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S
3.8400E+02	.054	.203	3.5796E+02	.C39	.367	3.2456E+02	.040	.175
3.8296E+02	.044	.218	3.5750E+02	.051	.364	3.2368E+02	.056	.298
3.8192E+02	.074	.162	3.5703E+02	.C25	.471	3.2328E+02	.072	.323
3.8101E+02	.050	.327	3.5575E+02	.C34	.198	3.2287E+02	.092	.271
3.8050E+02	.076	.234	3.5390E+02	.033	.195	3.2248E+02	.072	.272
3.7999E+02	.070	.395	3.5287E+02	.C33	.542	3.2196E+02	.073	.172
3.7948E+02	.045	.372	3.5242E+02	.C58	.295	3.2128E+02	.047	.330
3.7885E+02	.037	.234	3.5184E+02	.046	.220	3.2088E+02	.033	.399
3.7783E+02	.053	.205	3.5C25E+02	.C44	.189	3.1976E+02	.031	.201
3.7693E+02	.081	.245	3.4912E+02	.C46	.233	3.1878E+02	.036	.239
3.7643E+02	.061	.352	3.4822E+02	.C30	.260	3.1812E+02	.031	.414
3.7593E+02	.075	.422	3.4665E+02	.041	.184	3.1773E+02	.022	.479
3.7542E+02	.026	.464	3.4487E+02	.C30	.209	3.1722E+02	.029	.269
3.7492E+02	.040	.340	3.4186E+02	.C36	.135	3.1656E+02	.048	.297
3.7442E+02	.202	.502	3.3952E+02	.C55	.317	3.1617E+02	.035	.371
3.7392E+02	.819	.220	3.3909E+02	.103	.376	3.1507E+02	.034	.202
3.7342E+02	1.003	.177	3.3866E+02	.C73	.286	3.1412E+02	.031	.256
3.7292E+02	.586	.224	3.3823E+02	.C44	.405	3.1335E+02	.056	.203
3.7243E+02	.297	.139	3.3780E+02	.030	.407	3.1258E+02	.062	.183
3.7193E+02	.171	.170	3.3737E+02	.C41	.330	3.1194E+02	.058	.283
3.7143E+02	.142	.264	3.3695E+02	.112	.214	3.1156E+02	.080	.250
3.7094E+02	.111	.237	3.3652E+02	.131	.190	3.1118E+02	.058	.280
3.7045E+02	.200	.220	3.3609E+02	.232	.229	3.1080E+02	.046	.298
3.6995E+02	.473	.262	3.3567E+02	.470	.193	3.1030E+02	.037	.230
3.6946E+02	.546	.107	3.3524E+02	.223	.154	3.0897E+02	.033	.212
3.6897E+02	.312	.145	3.3482E+02	.157	.350	3.0805E+02	.037	.295
3.6849E+02	.126	.259	3.3428E+02	.146	.175	3.0742E+02	.053	.277
3.6800E+02	.094	.382	3.3355E+02	.198	.176	3.0705E+02	.080	.245
3.6751E+02	.149	.266	3.3313E+02	.118	.209	3.0668E+02	.094	.221
3.6702E+02	.235	.152	3.3271E+02	.127	.239	3.0631E+02	.067	.288
3.6654E+02	.165	.236	3.3230E+02	.082	.310	3.0594E+02	.043	.322
3.6605E+02	.135	.220	3.3188E+02	.C55	.357	3.0557E+02	.033	.386
3.6557E+02	.228	.234	3.3146E+02	.C68	.319	3.0520E+02	.032	.389
3.6509E+02	.165	.233	3.3104E+02	.C72	.286	3.0483E+02	.043	.352
3.6461E+02	.146	.234	3.3063E+02	.110	.219	3.0434E+02	.039	.232
3.6411E+02	.128	.160	3.3021E+02	.155	.202	3.0305E+02	.030	.188
3.6317E+02	.137	.240	3.2980E+02	.107	.202	3.0216E+02	.039	.240
3.6269E+02	.176	.202	3.2939E+02	.088	.357	3.0155E+02	.041	.332
3.6221E+02	.151	.186	3.2897E+02	.C40	.387	3.0119E+02	.061	.282
3.6174E+02	.104	.220	3.2856E+02	.C90	.269	3.0071E+02	.070	.184
3.6126E+02	.104	.251	3.2815E+02	.C62	.348	2.9999E+02	.051	.170
3.6079E+02	.070	.293	3.2774E+02	.061	.283	2.9927E+02	.058	.112
3.6032E+02	.038	.446	3.2733E+02	.C87	.265	2.9856E+02	.063	.109
3.5984E+02	.075	.245	3.2680E+02	.C62	.176	2.9730E+02	.068	.099
3.5925E+02	.062	.200	3.2611E+02	.042	.323	2.9589E+02	.055	.098
3.5843E+02	.053	.295	3.2570E+02	.073	.284	2.9502E+02	.050	.111



E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S
2.9399E+02	.039	.170	2.5796E+02	.104	.260	2.3081E+02	.213	.085
2.9329E+02	.042	.173	2.5739E+02	.179	.207	2.3032E+02	.262	.108
2.9260E+02	.037	.158	2.5682E+02	.139	.232	2.2984E+02	.260	.110
2.9171E+02	.045	.124	2.5625E+02	.097	.102	2.2936E+02	.205	.093
2.9053E+02	.043	.210	2.5551E+02	.102	.080	2.2888E+02	.183	.123
2.8985E+02	.030	.200	2.5456E+02	.148	.186	2.2817E+02	.139	.119
2.8800E+02	.030	.099	2.5400E+02	.274	.353	2.2793E+02	.131	.087
2.8627E+02	.030	.129	2.5344E+02	.534	.153	2.2745E+02	.145	.078
2.8513E+02	.034	.177	2.5315E+02	.493	.095	2.2660E+02	.173	.090
2.8447E+02	.151	.802	2.5259E+02	.481	.114	2.2603E+02	.126	.091
2.8381E+02	.353	.433	2.5177E+02	.409	.196	2.2556E+02	.115	.079
2.8315E+02	.577	.360	2.5105E+02	.311	.103	2.2510E+02	.117	.077
2.8249E+02	.279	.173	2.5039E+02	.259	.103	2.2463E+02	.104	.089
2.8215E+02	.260	.106	2.4984E+02	.222	.119	2.2417E+02	.081	.095
2.8150E+02	.262	.120	2.4930E+02	.169	.095	2.2370E+02	.063	.085
2.8053E+02	.218	.265	2.4875E+02	.145	.092	2.2324E+02	.065	.086
2.7988E+02	.133	.168	2.4821E+02	.156	.098	2.2278E+02	.074	.083
2.7955E+02	.120	.110	2.4767E+02	.146	.088	2.2232E+02	.076	.089
2.7890E+02	.119	.091	2.4671E+02	.106	.126	2.2186E+02	.063	.095
2.7826E+02	.132	.088	2.4581E+02	.067	.121	2.2104E+02	.054	.092
2.7731E+02	.141	.217	2.4553E+02	.060	.092	2.2050E+02	.054	.099
2.7667E+02	.101	.200	2.4500E+02	.056	.096	2.2005E+02	.047	.097
2.7585E+02	.078	.091	2.4447E+02	.050	.109	2.1923E+02	.048	.114
2.7459E+02	.073	.103	2.4352E+02	.041	.114	2.1870E+02	.048	.112
2.7382E+02	.072	.102	2.4249E+02	.039	.123	2.1804E+02	.091	.458
2.7320E+02	.067	.098	2.4160E+02	.031	.211	2.1760E+02	.198	.120
2.7257E+02	.065	.109	2.4108E+02	.025	.186	2.1715E+02	.213	.234
2.7195E+02	.082	.116	2.4056E+02	.032	.163	2.1671E+02	.135	.111
2.7133E+02	.108	.122	2.4000E+02	.041	.107	2.1648E+02	.130	.083
2.7072E+02	.097	.120	2.3978E+02	.058	.102	2.1604E+02	.120	.076
2.7010E+02	.067	.109	2.3902E+02	.086	.295	2.1560E+02	.104	.079
2.6949E+02	.060	.106	2.3852E+02	.143	.102	2.1517E+02	.085	.087
2.6888E+02	.056	.100	2.3825E+02	.134	.109	2.1473E+02	.069	.086
2.6827E+02	.045	.113	2.3774E+02	.105	.120	2.1394E+02	.054	.085
2.6719E+02	.031	.118	2.3724E+02	.086	.084	2.1343E+02	.057	.092
2.6617E+02	.032	.164	2.3673E+02	.090	.086	2.1300E+02	.048	.107
2.6557E+02	.040	.229	2.3623E+02	.118	.087	2.1237E+02	.037	.179
2.6479E+02	.064	.107	2.3533E+02	.198	.123	2.1194E+02	.030	.151
2.6407E+02	.062	.104	2.3473E+02	.278	.086	2.1152E+02	.029	.218
2.6348E+02	.044	.115	2.3400E+02	.385	.206	2.1109E+02	.040	.321
2.6242E+02	.037	.112	2.3374E+02	.345	.122	2.1067E+02	.062	.110
2.6125E+02	.040	.122	2.3325E+02	.330	.076	2.1045E+02	.059	.104
2.6026E+02	.057	.206	2.3276E+02	.336	.079	2.1003E+02	.048	.118
2.5997E+02	.067	.119	2.3227E+02	.288	.088	2.0961E+02	.039	.108
2.5939E+02	.078	.099	2.3178E+02	.236	.116	2.0885E+02	.037	.099
2.5853E+02	.068	.215	2.3129E+02	.205	.104	2.0801E+02	.040	.124

E(EV)	S(B)	OS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S
2.0733E+02	.070	.524	1.8760E+02	.181	.110	1.6980E+02	.048	.087
2.0691E+02	.158	.132	1.8724E+02	.147	.105	1.6949E+02	.051	.084
2.0670E+02	.165	.111	1.8672E+02	.107	.246	1.6893E+02	.059	.101
2.0629E+02	.150	.111	1.8637E+02	.077	.141	1.6858E+02	.052	.095
2.0569E+02	.134	.193	1.8619E+02	.071	.096	1.6828E+02	.045	.092
2.0528E+02	.105	.191	1.8584E+02	.065	.101	1.6798E+02	.040	.097
2.0507E+02	.040	.123	1.8519E+02	.060	.082	1.6768E+02	.036	.098
2.0466E+02	.078	.087	1.8479E+02	.066	.081	1.6738E+02	.040	.106
2.0426E+02	.085	.089	1.8444E+02	.077	.082	1.6708E+02	.052	.092
2.0386E+02	.097	.090	1.8410E+02	.082	.082	1.6678E+02	.057	.083
2.0345E+02	.113	.089	1.8375E+02	.079	.078	1.6648E+02	.053	.087
2.0305E+02	.127	.096	1.8312E+02	.077	.075	1.6619E+02	.048	.092
2.0265E+02	.126	.092	1.8272E+02	.074	.099	1.6589E+02	.042	.092
2.0206E+02	.192	.384	1.8238E+02	.066	.105	1.6560E+02	.035	.095
2.0167E+02	.666	.672	1.8176E+02	.055	.114	1.6530E+02	.030	.107
2.0127E+02	1.762	.114	1.8137E+02	.056	.090	1.6501E+02	.027	.111
2.0088E+02	2.156	.207	1.8103E+02	.060	.086	1.6472E+02	.033	.098
2.0048E+02	1.512	.067	1.8069E+02	.065	.079	1.6447E+02	.039	.099
2.0028E+02	1.444	.065	1.8036E+02	.077	.107	1.6384E+02	.038	.105
1.9970E+02	1.211	.262	1.8002E+02	.079	.117	1.6355E+02	.042	.101
1.9931E+02	.863	.261	1.7969E+02	.067	.101	1.6326E+02	.053	.087
1.9893E+02	.577	.129	1.7936E+02	.059	.095	1.6298E+02	.058	.093
1.9840E+02	.526	.078	1.7902E+02	.051	.103	1.6269E+02	.051	.098
1.9795E+02	.503	.094	1.7869E+02	.040	.100	1.6240E+02	.047	.086
1.9757E+02	.462	.074	1.7836E+02	.032	.116	1.6212E+02	.046	.087
1.9687E+02	.493	.069	1.7804E+02	.028	.112	1.6183E+02	.040	.090
1.9642E+02	.488	.061	1.7755E+02	.038	.261	1.6155E+02	.035	.098
1.9604E+02	.539	.061	1.7738E+02	.051	.123	1.6113E+02	.043	.195
1.9535E+02	.563	.068	1.7706E+02	.070	.080	1.6098E+02	.052	.102
1.9491E+02	.529	.087	1.7645E+02	.079	.075	1.6070E+02	.062	.085
1.9453E+02	.476	.099	1.7581E+02	.083	.076	1.6042E+02	.058	.090
1.9416E+02	.424	.113	1.7516E+02	.085	.081	1.6014E+02	.049	.087
1.9378E+02	.352	.121	1.7480E+02	.073	.094	1.5986E+02	.042	.111
1.9341E+02	.268	.123	1.7448E+02	.062	.102	1.5958E+02	.034	.123
1.9304E+02	.210	.117	1.7416E+02	.049	.093	1.5906E+02	.029	.108
1.9267E+02	.179	.105	1.7384E+02	.043	.088	1.5875E+02	.041	.096
1.9230E+02	.156	.112	1.7353E+02	.042	.088	1.5847E+02	.055	.080
1.9176E+02	.132	.248	1.7321E+02	.045	.087	1.5819E+02	.059	.079
1.9139E+02	.107	.100	1.7290E+02	.045	.089	1.5792E+02	.056	.084
1.9090E+02	.125	.106	1.7258E+02	.042	.093	1.5765E+02	.052	.090
1.9017E+02	.106	.083	1.7227E+02	.041	.102	1.5737E+02	.047	.099
1.8975E+02	.109	.071	1.7196E+02	.037	.102	1.5710E+02	.046	.096
1.8939E+02	.116	.087	1.7165E+02	.038	.093	1.5683E+02	.049	.085
1.8903E+02	.119	.110	1.7134E+02	.047	.087	1.5632E+02	.054	.082
1.8850E+02	.187	.175	1.7076E+02	.053	.083	1.5578E+02	.051	.090
1.8801E+02	.225	.100	1.7015E+02	.051	.082	1.5548E+02	.048	.088

E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S
1.5521E+02	.039	.091	1.4129E+02	.034	.103	1.2891E+02	.025	.121
1.5495E+02	.036	.099	1.4103E+02	.033	.106	1.2881E+02	.023	.172
1.5468E+02	.039	.091	1.4080E+02	.030	.108	1.2861E+02	.020	.176
1.5418E+02	.044	.089	1.4068E+02	.028	.147	1.2832E+02	.018	.131
1.5389E+02	.040	.095	1.4036E+02	.027	.155	1.2792E+02	.019	.145
1.5362E+02	.035	.092	1.3990E+02	.024	.115	1.2752E+02	.024	.120
1.5336E+02	.030	.096	1.3965E+02	.029	.110	1.2712E+02	.028	.102
1.5310E+02	.025	.107	1.3943E+02	.040	.100	1.2691E+02	.028	.105
1.5271E+02	.028	.180	1.3920E+02	.052	.092	1.2672E+02	.030	.105
1.5257E+02	.033	.112	1.3897E+02	.062	.091	1.2652E+02	.038	.095
1.5209E+02	.039	.096	1.3854E+02	.071	.085	1.2632E+02	.054	.083
1.5180E+02	.035	.096	1.3809E+02	.074	.081	1.2613E+02	.072	.077
1.5154E+02	.033	.095	1.3785E+02	.084	.090	1.2593E+02	.086	.075
1.5128E+02	.033	.097	1.3762E+02	.091	.095	1.2574E+02	.090	.075
1.5090E+02	.045	.226	1.3740E+02	.084	.089	1.2554E+02	.095	.074
1.5077E+02	.059	.106	1.3718E+02	.074	.082	1.2517E+02	.105	.082
1.5051E+02	.077	.072	1.3696E+02	.067	.090	1.2496E+02	.091	.082
1.5003E+02	.079	.069	1.3673E+02	.059	.098	1.2477E+02	.074	.083
1.4952E+02	.060	.086	1.3651E+02	.050	.101	1.2457E+02	.061	.095
1.4924E+02	.050	.100	1.3629E+02	.043	.102	1.2438E+02	.054	.092
1.4899E+02	.047	.104	1.3607E+02	.038	.103	1.2419E+02	.055	.083
1.4874E+02	.045	.100	1.3585E+02	.032	.108	1.2400E+02	.058	.081
1.4849E+02	.042	.098	1.3564E+02	.025	.119	1.2381E+02	.058	.081
1.4824E+02	.037	.099	1.3552E+02	.023	.168	1.2362E+02	.053	.083
1.4799E+02	.034	.102	1.3531E+02	.020	.168	1.2343E+02	.041	.091
1.4774E+02	.036	.110	1.3500E+02	.019	.133	1.2324E+02	.030	.105
1.4750E+02	.040	.113	1.3457E+02	.017	.171	1.2287E+02	.027	.119
1.4725E+02	.043	.111	1.3423E+02	.025	.267	1.2250E+02	.031	.142
1.4700E+02	.046	.107	1.3391E+02	.057	.119	1.2230E+02	.038	.117
1.4676E+02	.047	.100	1.3369E+02	.080	.090	1.2211E+02	.042	.105
1.4651E+02	.044	.097	1.3348E+02	.087	.080	1.2193E+02	.041	.114
1.4605E+02	.039	.099	1.3327E+02	.081	.079	1.2174E+02	.036	.123
1.4578E+02	.037	.102	1.3305E+02	.071	.083	1.2165E+02	.033	.176
1.4553E+02	.034	.102	1.3284E+02	.057	.093	1.2146E+02	.026	.201
1.4529E+02	.030	.106	1.3244E+02	.045	.118	1.2128E+02	.019	.173
1.4505E+02	.034	.119	1.3202E+02	.050	.116	1.2101E+02	.017	.146
1.4481E+02	.049	.113	1.3160E+02	.051	.087	1.2064E+02	.044	.093
1.4457E+02	.064	.097	1.3137E+02	.048	.088	1.2045E+02	.084	.087
1.4433E+02	.066	.093	1.3117E+02	.042	.096	1.2027E+02	.160	.103
1.4409E+02	.060	.100	1.3106E+02	.039	.134	1.2009E+02	.314	.088
1.4385E+02	.052	.105	1.3077E+02	.032	.164	1.1991E+02	.731	.085
1.4361E+02	.043	.108	1.3035E+02	.024	.137	1.1972E+02	1.455	.074
1.4338E+02	.035	.118	1.2994E+02	.028	.110	1.1954E+02	2.126	.067
1.4325E+02	.033	.172	1.2954E+02	.035	.123	1.1936E+02	2.442	.064
1.4302E+02	.032	.179	1.2932E+02	.033	.116	1.1918E+02	2.384	.063
1.4233E+02	.031	.089	1.2911E+02	.028	.107	1.1900E+02	2.079	.062

E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S
1.1882E+02	1.702	.062	1.1C04E+02	.061	.079	1.0205E+02	.062	.087
1.1865E+02	1.342	.063	1.0988E+02	.C50	.088	1.0190E+02	.075	.C80
1.1847E+02	1.019	.064	1.C972E+02	.C45	.100	1.0176E+02	.082	.078
1.1829E+02	.774	.064	1.0956E+02	.C51	.107	1.0162E+02	.086	.082
1.1811E+02	.649	.063	1.C940E+02	.C66	.098	1.0148E+02	.094	.083
1.1793E+02	.587	.066	1.0909E+02	.080	.076	1.0134E+02	.119	.078
1.1776E+02	.528	.068	1.C893E+02	.C77	.078	1.0120E+02	.152	.078
1.1758E+02	.465	.068	1.C877E+02	.068	.079	1.0106E+02	.169	.081
1.1741E+02	.391	.067	1.0861E+02	.C57	.081	1.0092E+02	.161	.075
1.1723E+02	.302	.071	1.C846E+02	.C45	.085	1.0078E+02	.146	.067
1.1705E+02	.217	.079	1.C830E+02	.034	.098	1.0064E+02	.145	.071
1.1688E+02	.161	.078	1.0815E+02	.C27	.117	1.0050E+02	.159	.074
1.1671E+02	.130	.069	1.0807E+02	.024	.172	1.0036E+02	.173	.068
1.1653E+02	.109	.070	1.0784E+02	.C18	.144	1.0022E+02	.182	.C64
1.1636E+02	.098	.071	1.0760E+02	.C18	.206	9.9943E+01	.164	.066
1.1618E+02	.102	.070	1.0737E+02	.C20	.121	9.9805E+01	.148	.069
1.1601E+02	.114	.070	1.0722E+02	.C22	.110	9.9667E+01	.138	.070
1.1568E+02	.121	.070	1.0692E+02	.027	.118	9.9530E+01	.127	.076
1.1549E+02	.113	.071	1.C661E+02	.C26	.138	9.9393E+01	.114	.084
1.1532E+02	.100	.072	1.C638E+02	.030	.175	9.9256E+01	.102	.080
1.1499E+02	.087	.081	1.0623E+02	.C38	.225	9.9119E+01	.087	.C77
1.1465E+02	.086	.095	1.C601E+02	.083	.152	9.8983E+01	.075	.078
1.1447E+02	.073	.091	1.0585E+02	.119	.114	9.8847E+01	.072	.077
1.1430E+02	.067	.083	1.C570E+02	.138	.083	9.8711E+01	.079	.080
1.1414E+02	.075	.077	1.0541E+02	.142	.070	9.8576E+01	.088	.080
1.1397E+02	.094	.073	1.C525E+02	.132	.070	9.8441E+01	.092	.C80
1.1380E+02	.113	.071	1.C511E+02	.115	.072	9.8305E+01	.091	.079
1.1363E+02	.122	.070	1.C496E+02	.C97	.074	9.8037E+01	.103	.076
1.1346E+02	.116	.070	1.C481E+02	.C84	.075	9.7903E+01	.119	.075
1.1330E+02	.102	.076	1.C466E+02	.C72	.077	9.7770E+01	.126	.074
1.1313E+02	.085	.089	1.C451E+02	.C60	.080	9.7636E+01	.119	.073
1.1297E+02	.069	.088	1.0422E+02	.049	.086	9.7503E+01	.106	.076
1.1280E+02	.055	.079	1.0407E+02	.C55	.088	9.7370E+01	.089	.082
1.1263E+02	.045	.087	1.C392E+02	.C63	.088	9.7238E+01	.072	.084
1.1247E+02	.043	.093	1.C378E+02	.C67	.082	9.7105E+01	.058	.086
1.1230E+02	.048	.089	1.0363E+02	.C63	.086	9.6971E+01	.050	.091
1.1214E+02	.060	.083	1.0349E+02	.055	.099	9.6707E+01	.051	.094
1.1198E+02	.074	.078	1.C334E+02	.C47	.106	9.6447E+01	.050	.099
1.1165E+02	.084	.073	1.0320E+02	.039	.117	9.6317E+01	.045	.107
1.1133E+02	.085	.076	1.C305E+02	.C32	.116	9.6186E+01	.038	.116
1.1116E+02	.090	.076	1.C291E+02	.027	.110	9.6119E+01	.035	.158
1.1100E+02	.095	.072	1.0283E+02	.C24	.160	9.5923E+01	.031	.150
1.1068E+02	.101	.070	1.C269E+02	.C24	.282	9.5664E+01	.030	.120
1.1052E+02	.102	.077	1.C255E+02	.C25	.273	9.5202E+01	.035	.100
1.1036E+02	.092	.084	1.0233E+02	.C33	.109	9.4563E+01	.028	.094
1.1020E+02	.077	.083	1.0219E+02	.046	.095	9.4131E+01	.029	.163

E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S
9.3879E+01	.027	.106	8.7786E+01	.129	.088	8.2463E+01	.059	.091
9.3692E+01	.036	.185	8.7672E+01	.151	.074	8.2315E+01	.064	.178
9.3506E+01	.061	.097	8.7559E+01	.159	.070	8.2162E+01	.075	.105
9.3378E+01	.073	.082	8.7446E+01	.140	.073	8.2059E+01	.073	.086
9.3132E+01	.066	.085	8.7333E+01	.115	.080	8.1956E+01	.069	.084
9.3008E+01	.057	.084	8.7220E+01	.095	.080	8.1845E+01	.064	.083
9.2885E+01	.049	.089	8.7108E+01	.077	.080	8.1650E+01	.060	.085
9.2761E+01	.042	.099	8.6996E+01	.078	.100	8.1548E+01	.056	.106
9.2638E+01	.036	.105	8.6939E+01	.088	.143	8.1437E+01	.050	.130
9.2515E+01	.032	.108	8.6826E+01	.129	.199	8.1235E+01	.038	.114
9.2388E+01	.029	.116	8.6660E+01	.206	.122	8.1033E+01	.031	.124
9.2147E+01	.033	.101	8.6549E+01	.252	.083	8.0840E+01	.037	.114
9.2025E+01	.037	.096	8.6438E+01	.268	.064	8.0740E+01	.040	.110
9.1903E+01	.038	.101	8.6327E+01	.254	.064	8.0640E+01	.043	.104
9.1781E+01	.036	.108	8.6216E+01	.224	.066	8.0540E+01	.046	.108
9.1655E+01	.032	.114	8.6106E+01	.187	.068	8.0440E+01	.046	.117
9.1418E+01	.033	.111	8.5995E+01	.153	.068	8.0340E+01	.040	.112
9.1297E+01	.045	.114	8.5885E+01	.129	.070	8.0241E+01	.033	.103
9.1177E+01	.077	.095	8.5775E+01	.109	.072	8.0142E+01	.027	.112
9.1057E+01	.129	.077	8.5666E+01	.093	.077	8.0043E+01	.022	.120
9.0932E+01	.163	.075	8.5556E+01	.085	.083	7.9992E+01	.020	.170
9.0697E+01	.171	.071	8.5447E+01	.085	.085	7.9836E+01	.018	.155
9.0578E+01	.149	.066	8.5338E+01	.094	.083	7.9648E+01	.027	.122
9.0459E+01	.122	.069	8.5222E+01	.101	.079	7.9550E+01	.045	.110
9.0340E+01	.096	.073	8.5012E+01	.094	.079	7.9452E+01	.070	.099
9.0222E+01	.074	.079	8.4904E+01	.083	.080	7.9355E+01	.092	.090
9.0104E+01	.060	.083	8.4796E+01	.073	.083	7.9248E+01	.103	.082
8.9986E+01	.056	.085	8.4688E+01	.065	.088	7.9062E+01	.092	.078
8.9868E+01	.065	.093	8.4581E+01	.058	.097	7.8965E+01	.076	.078
8.9750E+01	.095	.107	8.4473E+01	.051	.104	7.8869E+01	.062	.081
8.9633E+01	.140	.095	8.4358E+01	.046	.114	7.8772E+01	.056	.085
8.9516E+01	.179	.085	8.4204E+01	.052	.182	7.8675E+01	.063	.089
8.9399E+01	.194	.083	8.4098E+01	.069	.184	7.8579E+01	.079	.107
8.9282E+01	.191	.075	8.3991E+01	.119	.186	7.8483E+01	.101	.114
8.9166E+01	.177	.066	8.3833E+01	.221	.108	7.8387E+01	.122	.098
8.9049E+01	.159	.067	8.3727E+01	.269	.091	7.8291E+01	.130	.079
8.8933E+01	.140	.068	8.3621E+01	.289	.076	7.8195E+01	.119	.071
8.8818E+01	.122	.075	8.3508E+01	.289	.067	7.8100E+01	.095	.073
8.8702E+01	.103	.083	8.3305E+01	.252	.065	7.8005E+01	.072	.079
8.8587E+01	.087	.082	8.3200E+01	.201	.067	7.7910E+01	.056	.082
8.8472E+01	.078	.080	8.3096E+01	.160	.068	7.7815E+01	.045	.090
8.8357E+01	.079	.081	8.2991E+01	.130	.070	7.7720E+01	.036	.106
8.8242E+01	.087	.084	8.2887E+01	.103	.075	7.7625E+01	.030	.119
8.8128E+01	.099	.092	8.2783E+01	.083	.079	7.7521E+01	.027	.122
8.8014E+01	.110	.103	8.2679E+01	.071	.083	7.7332E+01	.021	.128
8.7899E+01	.117	.105	8.2575E+01	.064	.088	7.7155E+01	.025	.122

E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S
7.7061E+01	.028	.109	7.1079E+01	.200	.069	6.6872E+01	.082	.102
7.6958E+01	.029	.102	7.0996E+01	.169	.071	6.6735E+01	.064	.089
7.6734E+01	.026	.194	7.0913E+01	.145	.071	6.6660E+01	.052	.105
7.6586E+01	.024	.115	7.0831E+01	.125	.073	6.6621E+01	.048	.155
7.6401E+01	.020	.139	7.0749E+01	.107	.075	6.6421E+01	.039	.132
7.6157E+01	.018	.114	7.0654E+01	.095	.076	6.6322E+01	.037	.189
7.5850E+01	.018	.230	7.0503E+01	.097	.087	6.6173E+01	.040	.259
7.5668E+01	.020	.194	7.0421E+01	.111	.087	6.6062E+01	.058	.111
7.5486E+01	.023	.169	7.0339E+01	.130	.081	6.5988E+01	.092	.093
7.5360E+01	.025	.250	7.0258E+01	.146	.075	6.5914E+01	.154	.082
7.5270E+01	.035	.255	7.0177E+01	.144	.072	6.5840E+01	.242	.085
7.5125E+01	.039	.136	7.0095E+01	.129	.071	6.5767E+01	.322	.086
7.4945E+01	.044	.131	7.0014E+01	.111	.072	6.5679E+01	.354	.077
7.4777E+01	.047	.110	6.9934E+01	.090	.078	6.5546E+01	.305	.079
7.4688E+01	.056	.114	6.9853E+01	.069	.084	6.5473E+01	.253	.080
7.4599E+01	.069	.102	6.9772E+01	.053	.089	6.5400E+01	.203	.076
7.4510E+01	.088	.090	6.9692E+01	.043	.096	6.5327E+01	.162	.079
7.4421E+01	.106	.083	6.9611E+01	.037	.105	6.5254E+01	.137	.086
7.4332E+01	.115	.100	6.9531E+01	.031	.111	6.5181E+01	.124	.086
7.4233E+01	.113	.099	6.9450E+01	.024	.186	6.5108E+01	.124	.082
7.4067E+01	.103	.076	6.9331E+01	.020	.210	6.5036E+01	.135	.086
7.3979E+01	.094	.087	6.9199E+01	.017	.159	6.4963E+01	.142	.092
7.3892E+01	.085	.100	6.9040E+01	.017	.143	6.4891E+01	.130	.090
7.3804E+01	.077	.097	6.8895E+01	.024	.119	6.4819E+01	.111	.084
7.3716E+01	.067	.093	6.8816E+01	.029	.119	6.4747E+01	.095	.085
7.3629E+01	.057	.104	6.8724E+01	.033	.114	6.4675E+01	.076	.086
7.3542E+01	.048	.108	6.8580E+01	.031	.111	6.4603E+01	.060	.103
7.3455E+01	.042	.118	6.8501E+01	.027	.111	6.4566E+01	.053	.170
7.3410E+01	.039	.179	6.8423E+01	.025	.115	6.4495E+01	.043	.191
7.3323E+01	.034	.192	6.8345E+01	.028	.113	6.4423E+01	.034	.145
7.3237E+01	.028	.160	6.8205E+01	.032	.148	6.4352E+01	.030	.210
7.3150E+01	.023	.187	6.8227E+01	.048	.242	6.4232E+01	.026	.130
7.3010E+01	.017	.184	6.8149E+01	.079	.265	6.4139E+01	.025	.157
7.2838E+01	.014	.255	6.8072E+01	.119	.196	6.4068E+01	.030	.216
7.2610E+01	.012	.152	6.7943E+01	.169	.099	6.3948E+01	.037	.114
7.2325E+01	.012	.215	6.7802E+01	.194	.086	6.3807E+01	.035	.148
7.2155E+01	.012	.235	6.7725E+01	.216	.097	6.3666E+01	.028	.155
7.1986E+01	.015	.230	6.7648E+01	.276	.103	6.3526E+01	.026	.164
7.1871E+01	.019	.200	6.7571E+01	.364	.088	6.3386E+01	.027	.190
7.1787E+01	.032	.240	6.7481E+01	.427	.069	6.3295E+01	.031	.251
7.1702E+01	.063	.245	6.7341E+01	.367	.064	6.3192E+01	.050	.097
7.1578E+01	.129	.111	6.7265E+01	.297	.067	6.3123E+01	.071	.088
7.1494E+01	.176	.086	6.7189E+01	.233	.068	6.3053E+01	.102	.084
7.1411E+01	.212	.076	6.7113E+01	.179	.075	6.2984E+01	.139	.079
7.1315E+01	.227	.068	6.7037E+01	.137	.090	6.2915E+01	.165	.074
7.1161E+01	.226	.068	6.6961E+01	.120	.122	6.2832E+01	.174	.067

E(EV)	S(B)	OS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	OS/S
6.2694E+01	.174	.075	5.9289E+01	.162	.072	5.5433E+01	.035	.130
6.2572E+01	.184	.070	5.9225E+01	.133	.081	5.5336E+01	.035	.141
6.2504E+01	.204	.076	5.9162E+01	.109	.097	5.5279E+01	.043	.118
6.2436E+01	.216	.081	5.9100E+01	.090	.099	5.5222E+01	.052	.102
6.2368E+01	.203	.077	5.9037E+01	.076	.098	5.5165E+01	.057	.103
6.2300E+01	.172	.075	5.8974E+01	.067	.109	5.5092E+01	.062	.089
6.2232E+01	.140	.084	5.8896E+01	.065	.102	5.4996E+01	.065	.091
6.2164E+01	.111	.084	5.8772E+01	.071	.094	5.4940E+01	.057	.105
6.2096E+01	.087	.083	5.8663E+01	.082	.083	5.4883E+01	.040	.154
6.2029E+01	.070	.102	5.8601E+01	.093	.083	5.4827E+01	.034	.185
6.1961E+01	.063	.115	5.8523E+01	.097	.081	5.4771E+01	.027	.223
6.1879E+01	.058	.097	5.8400E+01	.100	.091	5.4715E+01	.023	.197
6.1760E+01	.067	.090	5.8292E+01	.090	.086	5.4643E+01	.018	.173
6.1693E+01	.074	.089	5.8231E+01	.081	.088	5.4532E+01	.020	.220
6.1611E+01	.078	.098	5.8169E+01	.071	.090	5.4323E+01	.024	.145
6.1492E+01	.068	.113	5.8108E+01	.062	.093	5.4089E+01	.030	.119
6.1426E+01	.059	.114	5.8031E+01	.056	.090	5.3996E+01	.044	.135
6.1344E+01	.053	.113	5.7955E+01	.056	.173	5.3941E+01	.048	.122
6.1227E+01	.061	.102	5.7864E+01	.047	.123	5.3870E+01	.051	.146
6.1160E+01	.085	.082	5.7787E+01	.044	.105	5.3777E+01	.046	.237
6.1094E+01	.119	.075	5.7666E+01	.042	.123	5.3668E+01	.030	.210
6.1029E+01	.150	.071	5.7501E+01	.042	.093	5.3614E+01	.025	.170
6.0948E+01	.171	.067	5.7201E+01	.040	.099	5.3560E+01	.021	.177
6.0832E+01	.161	.075	5.6947E+01	.038	.130	5.3506E+01	.017	.214
6.0766E+01	.139	.084	5.6873E+01	.036	.191	5.3435E+01	.017	.238
6.0701E+01	.110	.085	5.6814E+01	.030	.194	5.3327E+01	.015	.187
6.0635E+01	.085	.081	5.6710E+01	.029	.144	5.3220E+01	.017	.289
6.0570E+01	.070	.088	5.6592E+01	.029	.173	5.3113E+01	.022	.203
6.0505E+01	.063	.097	5.6519E+01	.029	.181	5.3023E+01	.029	.263
6.0440E+01	.064	.103	5.6461E+01	.035	.176	5.2969E+01	.036	.204
6.0375E+01	.072	.097	5.6402E+01	.045	.179	5.2916E+01	.042	.151
6.0311E+01	.095	.083	5.6315E+01	.076	.122	5.2863E+01	.051	.120
6.0246E+01	.137	.073	5.6257E+01	.102	.095	5.2810E+01	.067	.100
6.0181E+01	.201	.074	5.6198E+01	.127	.078	5.2757E+01	.087	.090
6.0117E+01	.268	.072	5.6140E+01	.149	.075	5.2687E+01	.094	.096
6.0053E+01	.313	.069	5.6082E+01	.164	.075	5.2599E+01	.088	.151
5.9988E+01	.324	.068	5.6024E+01	.166	.077	5.2546E+01	.077	.110
5.9924E+01	.299	.067	5.5966E+01	.155	.087	5.2476E+01	.070	.105
5.9860E+01	.250	.066	5.5909E+01	.135	.102	5.2371E+01	.059	.103
5.9796E+01	.201	.070	5.5851E+01	.117	.114	5.2284E+01	.057	.119
5.9732E+01	.176	.075	5.5793E+01	.100	.116	5.2232E+01	.066	.197
5.9669E+01	.181	.073	5.5736E+01	.077	.110	5.2179E+01	.062	.151
5.9605E+01	.198	.075	5.5678E+01	.060	.105	5.2128E+01	.052	.216
5.9526E+01	.214	.073	5.5621E+01	.051	.106	5.2075E+01	.054	.371
5.9415E+01	.211	.070	5.5564E+01	.044	.110	5.2024E+01	.037	.242
5.9352E+01	.191	.071	5.5507E+01	.040	.129	5.1972E+01	.031	.236

E (EV)	S (8)	OS/S	E (EV)	S (8)	DS/S	E (EV)	S (8)	DS/S
5.1920E+01	.025	.227	4.8577E+01	.C54	.157	4.5760E+01	.677	.112
5.1851E+01	.022	.208	4.8530E+01	.C66	.243	4.5717E+01	.458	.101
5.1657E+01	.024	.138	4.8484E+01	.C52	.165	4.5674E+01	.320	.154
5.1401E+01	.017	.127	4.8437E+01	.C48	.200	4.5632E+01	.213	.150
5.1238E+01	.014	.160	4.8390E+01	.040	.138	4.5571E+01	.138	.082
5.1136E+01	.017	.149	4.8326E+01	.C35	.123	4.5486E+01	.084	.109
5.1035E+01	.021	.210	4.8205E+01	.028	.234	4.5419E+01	.058	.163
5.0952E+01	.027	.185	4.8159E+01	.C25	.295	4.5377E+01	.042	.172
5.0902E+01	.034	.146	4.8049E+01	.C20	.252	4.5335E+01	.034	.155
5.0852E+01	.050	.166	4.7957E+01	.026	.284	4.5293E+01	.028	.142
5.0802E+01	.079	.184	4.7837E+01	.C17	.312	4.5156E+01	.022	.161
5.0752E+01	.135	.178	4.7774E+01	.020	.194	4.4947E+01	.017	.177
5.0702E+01	.256	.167	4.7655E+01	.C38	.142	4.4739E+01	.018	.208
5.0652E+01	.487	.147	4.7610E+01	.C49	.138	4.4533E+01	.021	.176
5.0602E+01	.808	.126	4.7564E+01	.C67	.145	4.4403E+01	.026	.262
5.0553E+01	1.149	.099	4.7519E+01	.C98	.193	4.4340E+01	.029	.199
5.0503E+01	1.462	.072	4.7474E+01	.149	.186	4.4240E+01	.034	.272
5.0453E+01	1.702	.063	4.7429E+01	.228	.139	4.4159E+01	.030	.172
5.0404E+01	1.843	.068	4.7383E+01	.281	.103	4.4056E+01	.025	.221
5.0354E+01	1.849	.082	4.7321E+01	.306	.077	4.3997E+01	.022	.202
5.0305E+01	1.714	.111	4.7231E+01	.287	.094	4.3917E+01	.016	.283
5.0239E+01	1.418	.133	4.7159E+01	.235	.117	4.3814E+01	.018	.272
5.0109E+01	.795	.216	4.7114E+01	.188	.129	4.3756E+01	.028	.262
5.0060E+01	.640	.105	4.7052E+01	.131	.105	4.3695E+01	.038	.177
5.0011E+01	.576	.070	4.6981E+01	.C82	.127	4.3597E+01	.048	.139
4.9945E+01	.619	.072	4.6936E+01	.057	.116	4.3535E+01	.042	.193
4.9847E+01	.682	.074	4.6892E+01	.C53	.158	4.3456E+01	.030	.221
4.9767E+01	.626	.077	4.6803E+01	.043	.178	4.3417E+01	.024	.217
4.9719E+01	.517	.080	4.6759E+01	.C35	.165	4.3359E+01	.018	.240
4.9671E+01	.405	.086	4.6697E+01	.C39	.235	4.3259E+01	.015	.326
4.9622E+01	.449	.136	4.6627E+01	.053	.174	4.3201E+01	.013	.297
4.9556E+01	.258	.126	4.6583E+01	.C86	.121	4.3141E+01	.014	.234
4.9478E+01	.188	.237	4.6539E+01	.141	.089	4.3063E+01	.029	.272
4.9430E+01	.151	.198	4.6495E+01	.220	.075	4.3024E+01	.043	.163
4.9382E+01	.118	.123	4.6433E+01	.336	.068	4.2967E+01	.094	.105
4.9334E+01	.083	.107	4.6364E+01	.428	.075	4.2908E+01	.173	.C86
4.9268E+01	.074	.135	4.6321E+01	.467	.100	4.2869E+01	.232	.103
4.9191E+01	.059	.109	4.6277E+01	.591	.090	4.2812E+01	.231	.083
4.9143E+01	.053	.133	4.6234E+01	.695	.079	4.2734E+01	.204	.087
4.9078E+01	.054	.132	4.6172E+01	.953	.060	4.2676E+01	.182	.100
4.8983E+01	.070	.087	4.6103E+01	1.334	.062	4.2637E+01	.163	.132
4.8906E+01	.092	.085	4.6060E+01	1.536	.065	4.2560E+01	.091	.162
4.8859E+01	.104	.090	4.5999E+01	1.577	.074	4.2522E+01	.070	.144
4.8794E+01	.111	.090	4.5931E+01	1.313	.131	4.2484E+01	.050	.135
4.8700E+01	.092	.142	4.5889E+01	1.130	.128	4.2427E+01	.041	.129
4.8624E+01	.077	.216	4.5827E+01	.919	.113	4.2369E+01	.038	.187



E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S	E(EV)	S(B)	OS/S
4.2331E+01	.032	.210	3.9789E+01	9.109	.071	3.7287E+01	1.061	.071
4.2293E+01	.031	.199	3.9736E+01	6.619	.070	3.7230E+01	1.561	.104
4.2166E+01	.029	.171	3.9667E+01	3.540	.063	3.7167E+01	2.380	.075
4.2048E+01	.032	.212	3.9615E+01	2.597	.070	3.7118E+01	2.719	.084
4.1972E+01	.040	.122	3.9580E+01	1.974	.075	3.7085E+01	2.389	.074
4.1916E+01	.053	.154	3.9511E+01	1.336	.087	3.7042E+01	1.876	.066
4.1878E+01	.062	.169	3.9476E+01	1.301	.093	3.6980E+01	1.180	.076
4.1822E+01	.089	.129	3.9441E+01	1.477	.071	3.6917E+01	.713	.112
4.1766E+01	.126	.125	3.9392E+01	1.711	.063	3.6883E+01	.346	.135
4.1729E+01	.198	.104	3.9324E+01	2.206	.063	3.6816E+01	.206	.109
4.1673E+01	.310	.079	3.9268E+01	2.470	.074	3.6783E+01	.112	.137
4.1618E+01	.481	.089	3.9233E+01	2.914	.068	3.6704E+01	.080	.102
4.1581E+01	.931	.110	3.9188E+01	2.582	.070	3.6550E+01	.043	.130
4.1525E+01	1.835	.071	3.9120E+01	2.272	.067	3.6398E+01	.047	.142
4.1451E+01	3.305	.075	3.9061E+01	2.450	.068	3.6306E+01	.046	.155
4.1378E+01	5.471	.060	3.9026E+01	2.843	.066	3.6215E+01	.035	.248
4.1322E+01	5.827	.071	3.8989E+01	3.580	.061	3.6182E+01	.031	.270
4.1286E+01	5.253	.071	3.8918E+01	4.550	.060	3.6116E+01	.020	.358
4.1213E+01	3.848	.091	3.8851E+01	4.307	.066	3.6083E+01	.012	.470
4.1176E+01	2.727	.077	3.8784E+01	3.368	.075	3.6005E+01	.015	.280
4.1140E+01	1.935	.075	3.8717E+01	2.000	.103	3.5917E+01	.009	.622
4.1085E+01	1.324	.072	3.8651E+01	1.039	.093	3.5884E+01	.011	.688
4.1012E+01	.665	.067	3.8613E+01	.657	.137	3.5798E+01	.012	.279
4.0958E+01	.462	.080	3.8579E+01	.448	.129	3.5651E+01	.012	.277
4.0922E+01	.285	.103	3.8518E+01	.292	.092	3.5504E+01	.012	.315
4.0886E+01	.193	.094	3.8476E+01	.188	.103	3.5422E+01	.015	.538
4.0814E+01	.112	.112	3.8442E+01	.162	.090	3.5389E+01	.025	.277
4.0778E+01	.074	.158	3.8386E+01	.177	.095	3.5357E+01	.033	.185
4.0742E+01	.057	.144	3.8339E+01	.212	.115	3.5324E+01	.043	.196
4.0670E+01	.050	.179	3.8271E+01	.298	.146	3.5291E+01	.058	.176
4.0634E+01	.042	.187	3.8237E+01	.364	.092	3.5241E+01	.071	.140
4.0580E+01	.041	.177	3.8190E+01	.422	.081	3.5184E+01	.086	.185
4.0508E+01	.033	.178	3.8125E+01	.462	.103	3.5126E+01	.083	.141
4.0420E+01	.040	.232	3.8066E+01	.384	.122	3.5068E+01	.066	.147
4.0385E+01	.056	.175	3.8032E+01	.295	.133	3.5029E+01	.048	.247
4.0314E+01	.098	.128	3.7995E+01	.240	.095	3.4964E+01	.034	.240
4.0279E+01	.182	.133	3.7866E+01	.121	.097	3.4897E+01	.022	.319
4.0208E+01	.619	.180	3.7828E+01	.081	.141	3.4840E+01	.024	.343
4.0173E+01	1.118	.141	3.7760E+01	.071	.162	3.4768E+01	.037	.242
4.0138E+01	2.261	.115	3.7644E+01	.053	.116	3.4735E+01	.046	.364
4.0084E+01	4.201	.083	3.7546E+01	.060	.142	3.4642E+01	.057	.146
4.0014E+01	8.996	.082	3.7482E+01	.090	.135	3.4540E+01	.047	.180
3.9963E+01	12.116	.061	3.7422E+01	.152	.164	3.4476E+01	.034	.205
3.9928E+01	13.199	.063	3.7388E+01	.361	.131	3.4445E+01	.029	.208
3.9858E+01	12.919	.069	3.7356E+01	.519	.108	3.4411E+01	.024	.314
3.9823E+01	11.609	.088	3.7320E+01	.698	.146	3.4378E+01	.015	.387

E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S	E(EV)	S(B)	DS/S
3.4314E+01	.013	.494	3.1371E+01	.097	.149	2.8646E+01	.029	.310
3.4281E+01	.012	.511	3.1322E+01	.114	.149	2.8540E+01	.037	.263
3.4217E+01	.013	.580	3.1249E+01	.122	.100	2.8435E+01	.033	.271
3.4168E+01	.023	.284	3.1186E+01	.080	.183	2.8331E+01	.022	.299
3.4120E+01	.029	.300	3.1124E+01	.053	.248	2.8266E+01	.013	.699
3.4088E+01	.043	.282	3.1094E+01	.028	.220	2.8237E+01	.008	1.245
3.4058E+01	.053	.189	3.0940E+01	.036	.299	2.8178E+01	.004	2.725
3.4023E+01	.066	.186	3.0878E+01	.066	.187	2.8119E+01	.005	1.848
3.3991E+01	.084	.135	3.0844E+01	.091	.125	2.8021E+01	.003	2.875
3.3948E+01	.097	.112	3.0817E+01	.105	.150	2.7918E+01	.006	1.486
3.3893E+01	.108	.118	3.0786E+01	.148	.130	2.7817E+01	.005	1.473
3.3812E+01	.091	.119	3.0702E+01	.259	.090	2.7715E+01	.003	2.850
3.3734E+01	.050	.298	3.0664E+01	.319	.113	2.7615E+01	.003	2.946
3.3670E+01	.041	.224	3.0633E+01	.598	.118	2.7515E+01	.004	1.816
3.3638E+01	.040	.282	3.0608E+01	.822	.084	2.7421E+01	.009	1.702
3.3569E+01	.055	.177	3.0562E+01	1.573	.078	2.7316E+01	.018	.485
3.3515E+01	.084	.118	3.0515E+01	2.738	.076	2.7218E+01	.024	.382
3.3461E+01	.133	.132	3.0468E+01	4.374	.072	2.7120E+01	.032	.309
3.3408E+01	.158	.138	3.0422E+01	5.541	.066	2.7023E+01	.037	.245
3.3354E+01	.151	.112	3.0375E+01	6.146	.068	2.6932E+01	.035	.431
3.3318E+01	.134	.155	3.0329E+01	4.964	.072	2.6874E+01	.046	.445
3.3286E+01	.096	.149	3.0283E+01	3.676	.080	2.6817E+01	.085	.348
3.3248E+01	.072	.153	3.0237E+01	2.246	.074	2.6788E+01	.134	.184
3.3191E+01	.042	.183	3.0191E+01	1.230	.076	2.6734E+01	.340	.086
3.3127E+01	.022	.317	3.0145E+01	.639	.084	2.6679E+01	.742	.101
3.3064E+01	.017	.363	3.0054E+01	.254	.112	2.6641E+01	1.174	.077
3.3032E+01	.017	.530	2.9963E+01	.112	.125	2.6566E+01	1.894	.079
3.2968E+01	.011	.849	2.9918E+01	.088	.181	2.6528E+01	1.993	.084
3.2880E+01	.012	.343	2.9849E+01	.067	.154	2.6490E+01	1.733	.097
3.2810E+01	.010	.573	2.9783E+01	.064	.196	2.6415E+01	1.054	.113
3.2778E+01	.008	.622	2.9738E+01	.067	.161	2.6381E+01	.475	.122
3.2715E+01	.014	.464	2.9693E+01	.058	.178	2.6340E+01	.354	.104
3.2621E+01	.014	.387	2.9624E+01	.050	.151	2.6262E+01	.270	.098
3.2493E+01	.015	.345	2.9559E+01	.057	.180	2.6189E+01	.286	.103
3.2365E+01	.013	.360	2.9515E+01	.058	.240	2.6079E+01	.221	.225
3.2238E+01	.020	.317	2.9471E+01	.041	.279	2.6022E+01	.120	.208
3.2112E+01	.019	.241	2.9403E+01	.038	.214	2.5966E+01	.073	.271
3.1986E+01	.014	.451	2.9339E+01	.026	.378	2.5938E+01	.048	.383
3.1862E+01	.014	.341	2.9295E+01	.020	.376	2.5881E+01	.024	.750
3.1774E+01	.023	.394	2.9183E+01	.018	.364	2.5803E+01	.016	.893
3.1712E+01	.031	.384	2.9124E+01	.010	1.044	2.5713E+01	.021	.530
3.1681E+01	.028	.310	2.9077E+01	.020	.620	2.5629E+01	.020	.860
3.1614E+01	.027	.235	2.9034E+01	.032	.374	2.5533E+01	.021	.525
3.1526E+01	.034	.359	2.8967E+01	.036	.226	2.5444E+01	.021	.570
3.1464E+01	.041	.259	2.8859E+01	.037	.255	2.5356E+01	.031	.394
3.1433E+01	.059	.227	2.8752E+01	.026	.300	2.5267E+01	.043	.423

E (EV)	S(B)	OS/S	E (EV)	S(B)	OS/S	E (EV)	S(B)	OS/S
2.5212E+01	.103	.247	2.3414E+01	.084	.377	2.1458E+01	.045	.770
2.5184E+01	.188	.157	2.3363E+01	.036	.557	2.1376E+01	.046	.765
2.5114E+01	.475	.103	2.3281E+01	.035	.799	2.1274E+01	.063	.719
2.5079E+01	.932	.082	2.3208E+01	.033	.545	2.1223E+01	.136	.558
2.5010E+01	1.684	.077	2.3121E+01	.041	.718	2.1186E+01	.155	.278
2.4976E+01	2.051	.099	2.3069E+01	.040	.730	2.1119E+01	.304	.181
2.4920E+01	1.714	.067	2.3015E+01	.058	.560	2.1052E+01	.332	.169
2.4872E+01	1.208	.086	2.2962E+01	.119	.371	2.0970E+01	.199	.317
2.4838E+01	.736	.085	2.2936E+01	.181	.286	2.0919E+01	.118	.492
2.4770E+01	.321	.148	2.2883E+01	.224	.182	2.0869E+01	.085	.625
2.4715E+01	.164	.193	2.2826E+01	.213	.147	2.0818E+01	.102	.673
2.4687E+01	.104	.337	2.2778E+01	.157	.268	2.0768E+01	.030	1.306
2.4633E+01	.070	.297	2.2725E+01	.094	.434	2.0718E+01	.067	.841
2.4578E+01	.049	.520	2.2672E+01	.050	.588	2.0667E+01	.063	.993
2.4496E+01	.046	.366	2.2602E+01	.041	.534	2.0592E+01	.078	.508
2.4412E+01	.030	.479	2.2515E+01	.050	.865	2.0517E+01	.178	.411
2.4332E+01	.024	1.126	2.2454E+01	.040	.663	2.0467E+01	.344	.265
2.4246E+01	.017	.707	2.2384E+01	.046	.765	2.0417E+01	.511	.222
2.4169E+01	.026	.945	2.2308E+01	.049	.616	2.0367E+01	.593	.192
2.4115E+01	.026	.815	2.2227E+01	.069	.559	2.0317E+01	.466	.213
2.4087E+01	.050	.463	2.2175E+01	.115	.400	2.0268E+01	.298	.316
2.4000E+01	.078	.256	2.2123E+01	.227	.232	2.0218E+01	.085	.795
2.3925E+01	.089	.305	2.2071E+01	.431	.158	2.0147E+01	.058	.785
2.3871E+01	.111	.308	2.2019E+01	.559	.121	2.0069E+01	.086	1.015
2.3817E+01	.185	.216	2.1968E+01	.575	.150	2.0020E+01	.083	.880
2.3759E+01	.411	.110	2.1916E+01	.391	.184	1.9970E+01	.112	1.051
2.3715E+01	.550	.121	2.1864E+01	.207	.236	1.9900E+01	.107	.478
2.3683E+01	.761	.139	2.1806E+01	.098	.354	1.9822E+01	.102	.914
2.3619E+01	.713	.122	2.1735E+01	.063	.633	1.9773E+01	.052	1.313
2.3587E+01	.475	.120	2.1666E+01	.035	.850	1.9724E+01	.053	1.489
2.3520E+01	.259	.121	2.1581E+01	.041	1.133	1.9675E+01	.058	1.362
2.3468E+01	.133	.262	2.1530E+01	.027	1.387	1.9596E+01	.047	1.358