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M/D

**Numerical Tables of Anomalous Scattering Factors
Calculated by the Cromer and Liberman's Method**

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**NATIONAL LABORATORY FOR
HIGH ENERGY PHYSICS**

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Appendix 1. Index for anomalous scattering factor tables. Each number shows the page relevant to the element looked up. The atomic number is given in parentheses.

Element	Table I-a	Table I-b	Element	Table I-a	Table I-b			
		K			K	L ₁	L ₂	L ₃
Li (3)	5		Ru (44)	25	62			
Be (4)	5		Rh (45)	26	62			
B (5)	6		Pd (46)	26	63			
C (6)	6		Ag (47)	27	63	79	98	116
N (7)	7		Cd (48)	27	64	80	98	117
O (8)	7		In (49)	28	64	80	99	117
F (9)	8		Sn (50)	28	65	81	99	118
Ne (10)	8		Sb (51)	29	65	81	100	118
Na (11)	9		Te (52)	29	66	82	100	119
Mg (12)	9	46	I (53)	30	66	82	101	119
Ar (13)	10	46	Xe (54)	30	67	83	101	120
Si (14)	10	47	Cs (55)	31	67	83	102	120
P (15)	11	47	Ba (56)	31	68	84	102	121
S (16)	11	48	La (57)	32	68	84	103	121
Cl (17)	12	48	Ce (58)	32	69	85	103	122
Ar (18)	12	49	Pr (59)	33	69	85	104	122
K (19)	13	49	Nd (60)	33	70	86	104	123
Ca (20)	13	50	Pm (61)	34	70	86	105	123
Sc (21)	14	50	Sm (62)	34	71	87	105	124
Ti (22)	14	51	Eu (63)	35	71	87	106	124
V (23)	15	51	Gd (64)	35	72	88	106	125
Cr (24)	15	52	Tb (65)	36	72	88	107	125
Mn (25)	16	52	Dy (66)	36	73	89	107	126
Fe (26)	16	53	Ho (67)	37	73	89	108	126
Co (27)	17	53	Er (68)	37	74	90	108	127
Ni (28)	17	54	Tm (69)	38	74	90	109	127
Cu (29)	18	54	Yb (70)	38	75	91	109	128
Zn (30)	18	55	Lu (71)	39	75	91	110	128
Ga (31)	19	55	Hf (72)	39	76	92	110	129
Ge (32)	19	56	Ta (73)	40	76	92	111	129
As (33)	20	56	W (74)	40	77	93	111	130
Se (34)	20	57	Re (75)	41	77	93	112	130
Br (35)	21	57	Os (76)	41	78	94	112	131
Kr (36)	21	58	Ir (77)	42	78	94	113	131
Rb (37)	22	58	Pt (78)	42	79	95	113	132
Sr (38)	22	59	Au (79)	43		95	114	132
Y (39)	23	59	Hg (80)	43		96	114	133
Zr (40)	23	60	Tr (81)	44		96	115	133
Nb (41)	24	60	Pb (82)	44		97	115	134
Mo (42)	24	61	Bi (83)	45		97	116	134
Tc (43)	25	61	U (92)	45				

ATOMIC SYMBOL = AG		ATOMIC NUMBER = 47		L ₂ ABSORPTION EDGE (3.51640 Å; 3.5257 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
3.502	I F'	-13.468	-13.476	-13.485	-13.494	-13.502	-13.511	-13.520	-13.529	-13.538	-13.547
	I F''	13.698	13.699	13.699	13.700	13.700	13.701	13.701	13.702	13.702	13.703
3.503	I F'	-13.556	-13.565	-13.574	-13.583	-13.592	-13.601	-13.611	-13.620	-13.630	-13.639
	I F''	13.703	13.704	13.704	13.705	13.705	13.706	13.706	13.707	13.707	13.708
3.504	I F'	-13.649	-13.658	-13.668	-13.678	-13.687	-13.697	-13.707	-13.717	-13.727	-13.737
	I F''	13.708	13.709	13.709	13.710	13.710	13.711	13.711	13.712	13.712	13.713
3.505	I F'	-13.747	-13.758	-13.768	-13.778	-13.789	-13.799	-13.810	-13.820	-13.831	-13.842
	I F''	13.713	13.714	13.714	13.715	13.715	13.716	13.716	13.717	13.717	13.718
3.506	I F'	-13.853	-13.864	-13.875	-13.886	-13.897	-13.908	-13.920	-13.931	-13.943	-13.954
	I F''	13.718	13.719	13.719	13.720	13.720	13.721	13.721	13.722	13.722	13.723
3.507	I F'	-13.966	-13.978	-13.990	-14.002	-14.014	-14.026	-14.038	-14.051	-14.065	-14.076
	I F''	13.723	13.724	13.724	13.725	13.725	13.726	13.726	13.727	13.727	13.728
3.508	I F'	-14.088	-14.101	-14.114	-14.127	-14.140	-14.153	-14.167	-14.180	-14.194	-14.208
	I F''	13.728	13.729	13.729	13.730	13.730	13.731	13.731	13.732	13.732	13.733
3.509	I F'	-14.222	-14.236	-14.250	-14.264	-14.279	-14.293	-14.308	-14.323	-14.338	-14.353
	I F''	13.733	13.734	13.734	13.735	13.735	13.736	13.736	13.737	13.737	13.738
3.510	I F'	-14.369	-14.384	-14.400	-14.416	-14.432	-14.448	-14.465	-14.481	-14.498	-14.515
	I F''	13.738	13.739	13.739	13.740	13.740	13.741	13.741	13.742	13.742	13.743
3.511	I F'	-14.532	-14.550	-14.568	-14.585	-14.604	-14.622	-14.641	-14.660	-14.679	-14.698
	I F''	13.743	13.744	13.744	13.745	13.745	13.746	13.746	13.747	13.747	13.748
3.512	I F'	-14.718	-14.738	-14.758	-14.779	-14.800	-14.821	-14.843	-14.865	-14.887	-14.910
	I F''	13.748	13.749	13.749	13.750	13.750	13.751	13.751	13.752	13.752	13.753
3.513	I F'	-14.933	-14.956	-14.980	-15.005	-15.030	-15.055	-15.081	-15.107	-15.134	-15.161
	I F''	13.753	13.754	13.754	13.755	13.755	13.755	13.756	13.756	13.757	13.757
3.514	I F'	-15.189	-15.218	-15.247	-15.277	-15.308	-15.339	-15.371	-15.405	-15.438	-15.473
	I F''	13.758	13.758	13.759	13.759	13.760	13.760	13.761	13.761	13.762	13.762
3.515	I F'	-15.509	-15.546	-15.584	-15.623	-15.663	-15.705	-15.748	-15.793	-15.839	-15.887
	I F''	13.763	13.763	13.764	13.764	13.765	13.765	13.766	13.766	13.767	13.767
3.516	I F'	-15.937	-15.989	-16.044	-16.101	-16.160	-16.223	-16.289	-16.359	-16.433	-16.512
	I F''	13.768	13.768	13.769	13.769	13.770	13.770	13.771	13.771	13.772	13.772
3.517	I F'	-16.597	-16.688	-16.786	-16.893	-17.010	-17.140	-17.287	-17.453	-17.647	-17.879
	I F''	13.773	13.773	13.774	13.774	13.775	13.775	13.776	13.776	13.777	13.777
3.518	I F'	-18.168	-18.552	-19.125	-20.292	-20.675	-19.251	-18.630	-18.228	-17.931	-17.694
	I F''	13.778	13.778	13.779	13.779	10.113	10.113	10.114	10.114	10.115	10.115
3.519	I F'	-17.499	-17.331	-17.186	-17.056	-16.940	-16.835	-16.739	-16.650	-16.568	-16.492
	I F''	10.116	10.116	10.117	10.117	10.118	10.118	10.118	10.119	10.119	10.120
3.520	I F'	-16.420	-16.353	-16.289	-16.229	-16.172	-16.118	-16.067	-16.018	-15.970	-15.925
	I F''	10.120	10.121	10.121	10.122	10.122	10.123	10.123	10.123	10.124	10.124
3.521	I F'	-15.882	-15.840	-15.800	-15.762	-15.724	-15.688	-15.653	-15.619	-15.587	-15.555
	I F''	10.125	10.125	10.126	10.126	10.127	10.127	10.128	10.128	10.129	10.129
3.522	I F'	-15.524	-15.494	-15.465	-15.437	-15.409	-15.382	-15.356	-15.331	-15.306	-15.281
	I F''	10.130	10.130	10.130	10.131	10.131	10.132	10.132	10.133	10.133	10.134
3.523	I F'	-15.258	-15.235	-15.212	-15.190	-15.168	-15.147	-15.126	-15.106	-15.086	-15.066
	I F''	10.134	10.135	10.135	10.136	10.136	10.137	10.137	10.137	10.138	10.138
3.524	I F'	-15.047	-15.028	-15.009	-14.991	-14.973	-14.956	-14.939	-14.922	-14.905	-14.889
	I F''	10.139	10.139	10.140	10.140	10.141	10.141	10.142	10.142	10.143	10.143
3.525	I F'	-14.873	-14.857	-14.842	-14.826	-14.811	-14.797	-14.782	-14.768	-14.754	-14.740
	I F''	10.143	10.144	10.144	10.145	10.145	10.146	10.146	10.147	10.147	10.148
3.526	I F'	-14.726	-15.000	-14.987	-14.974	-14.961	-14.948	-14.936	-14.923	-14.911	-14.899
	I F''	10.148	10.148	10.149	10.149	10.149	10.149	10.150	10.150	10.150	10.150
3.527	I F'	-14.887	-14.875	-14.864	-14.852	-14.841	-14.830	-14.819	-14.808	-14.797	-14.787
	I F''	10.151	10.151	10.151	10.152	10.152	10.152	10.152	10.153	10.153	10.153
3.528	I F'	-14.776	-14.766	-14.756	-14.745	-14.735	-14.726	-14.716	-14.706	-14.697	-14.687
	I F''	10.153	10.154	10.154	10.154	10.154	10.155	10.155	10.155	10.155	10.156
3.529	I F'	-14.678	-14.669	-14.659	-14.650	-14.642	-14.633	-14.624	-14.615	-14.607	-14.598
	I F''	10.156	10.156	10.156	10.157	10.157	10.157	10.157	10.158	10.158	10.158

ATOMIC SYMBOL = CD		ATOMIC NUMBER = 48		L ₂ ABSORPTION EDGE (3.32570 Å; 3.7278 KEV)								
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	
3.312	I	F'	-13.355	-13.365	-13.375	-13.385	-13.395	-13.405	-13.415	-13.425	-13.436	-13.446
	I	F''	13.695	13.695	13.696	13.697	13.697	13.698	13.699	13.699	13.700	13.700
3.313	I	F'	-13.456	-13.467	-13.477	-13.488	-13.499	-13.509	-13.520	-13.531	-13.542	-13.553
	I	F''	13.701	13.702	13.702	13.703	13.703	13.704	13.705	13.705	13.706	13.707
3.314	I	F'	-13.564	-13.575	-13.587	-13.598	-13.609	-13.621	-13.632	-13.644	-13.656	-13.668
	I	F''	13.707	13.708	13.708	13.709	13.710	13.710	13.711	13.711	13.712	13.713
3.315	I	F'	-13.680	-13.692	-13.704	-13.716	-13.728	-13.741	-13.753	-13.766	-13.779	-13.792
	I	F''	13.713	13.714	13.715	13.715	13.716	13.716	13.717	13.718	13.718	13.719
3.316	I	F'	-13.805	-13.818	-13.831	-13.844	-13.858	-13.871	-13.885	-13.899	-13.912	-13.926
	I	F''	13.720	13.720	13.721	13.721	13.722	13.723	13.723	13.724	13.724	13.725
3.317	I	F'	-13.941	-13.955	-13.969	-13.984	-13.999	-14.014	-14.029	-14.044	-14.059	-14.075
	I	F''	13.726	13.726	13.727	13.728	13.728	13.729	13.729	13.730	13.731	13.731
3.318	I	F'	-14.090	-14.106	-14.122	-14.138	-14.155	-14.171	-14.188	-14.205	-14.222	-14.239
	I	F''	13.732	13.733	13.734	13.734	13.734	13.735	13.736	13.736	13.737	13.737
3.319	I	F'	-14.257	-14.275	-14.293	-14.311	-14.329	-14.348	-14.367	-14.386	-14.406	-14.426
	I	F''	13.738	13.739	13.739	13.740	13.740	13.741	13.742	13.742	13.743	13.744
3.320	I	F'	-14.446	-14.466	-14.487	-14.507	-14.529	-14.550	-14.572	-14.594	-14.617	-14.640
	I	F''	13.744	13.745	13.745	13.746	13.747	13.747	13.748	13.748	13.749	13.750
3.321	I	F'	-14.664	-14.687	-14.712	-14.736	-14.761	-14.787	-14.813	-14.840	-14.867	-14.894
	I	F''	13.750	13.751	13.752	13.752	13.753	13.753	13.754	13.755	13.755	13.756
3.322	I	F'	-14.923	-14.952	-14.981	-15.011	-15.042	-15.074	-15.106	-15.139	-15.174	-15.209
	I	F''	13.756	13.757	13.758	13.758	13.759	13.760	13.760	13.761	13.761	13.762
3.323	I	F'	-15.244	-15.281	-15.319	-15.359	-15.399	-15.441	-15.484	-15.528	-15.574	-15.622
	I	F''	13.763	13.763	13.764	13.765	13.765	13.766	13.766	13.767	13.768	13.768
3.324	I	F'	-15.672	-15.724	-15.778	-15.834	-15.893	-15.955	-16.020	-16.088	-16.161	-16.238
	I	F''	13.769	13.769	13.770	13.771	13.771	13.772	13.773	13.774	13.774	13.775
3.325	I	F'	-16.320	-16.407	-16.502	-16.604	-16.716	-16.838	-16.975	-17.128	-17.304	-17.509
	I	F''	13.775	13.776	13.776	13.777	13.777	13.778	13.779	13.779	13.780	13.781
3.326	I	F'	-17.756	-18.066	-18.485	-19.134	-20.647	-20.115	-18.955	-18.380	-17.994	-17.704
	I	F''	13.781	13.782	13.782	13.783	13.784	10.029	10.029	10.030	10.030	10.031
3.327	I	F'	-17.472	-17.278	-17.111	-16.966	-16.836	-16.720	-16.614	-16.517	-16.428	-16.345
	I	F''	10.031	10.032	10.032	10.033	10.033	10.033	10.034	10.034	10.035	10.035
3.328	I	F'	-16.268	-16.195	-16.127	-16.063	-16.002	-15.945	-15.890	-15.838	-15.788	-15.740
	I	F''	10.036	10.036	10.037	10.037	10.038	10.038	10.039	10.039	10.040	10.040
3.329	I	F'	-15.694	-15.650	-15.608	-15.567	-15.528	-15.490	-15.454	-15.418	-15.384	-15.351
	I	F''	10.041	10.041	10.042	10.042	10.043	10.043	10.044	10.044	10.045	10.045
3.330	I	F'	-15.318	-15.287	-15.256	-15.227	-15.198	-15.170	-15.143	-15.116	-15.090	-15.065
	I	F''	10.046	10.046	10.047	10.047	10.048	10.048	10.049	10.049	10.050	10.050
3.331	I	F'	-15.040	-15.016	-14.992	-14.969	-14.947	-14.925	-14.903	-14.882	-14.861	-14.841
	I	F''	10.051	10.051	10.052	10.052	10.053	10.053	10.054	10.054	10.054	10.055
3.332	I	F'	-14.821	-14.801	-14.782	-14.763	-14.745	-14.727	-14.709	-14.691	-14.674	-14.657
	I	F''	10.055	10.056	10.056	10.057	10.057	10.058	10.058	10.059	10.059	10.060
3.333	I	F'	-14.641	-14.625	-14.608	-14.593	-14.577	-14.562	-14.547	-14.532	-14.517	-14.503
	I	F''	10.060	10.061	10.061	10.062	10.062	10.063	10.063	10.064	10.064	10.065
3.334	I	F'	-14.489	-14.475	-14.461	-14.448	-14.434	-14.421	-14.408	-14.395	-14.383	-14.370
	I	F''	10.065	10.066	10.066	10.067	10.067	10.068	10.068	10.069	10.069	10.070
3.335	I	F'	-14.358	-14.346	-14.334	-14.322	-14.310	-14.299	-14.288	-14.276	-14.265	-14.254
	I	F''	10.070	10.071	10.071	10.072	10.072	10.073	10.073	10.074	10.074	10.075
3.336	I	F'	-14.244	-14.233	-14.222	-14.212	-14.202	-14.191	-14.181	-14.171	-14.162	-14.152
	I	F''	10.075	10.076	10.076	10.077	10.077	10.077	10.078	10.078	10.079	10.079
3.337	I	F'	-14.142	-14.133	-14.123	-14.114	-14.105	-14.096	-14.087	-14.078	-14.069	-14.061
	I	F''	10.080	10.080	10.081	10.081	10.082	10.082	10.083	10.083	10.084	10.084
3.338	I	F'	-14.052	-14.043	-14.035	-14.027	-14.018	-14.010	-14.002	-13.994	-13.986	-13.978
	I	F''	10.085	10.085	10.086	10.086	10.087	10.087	10.088	10.088	10.089	10.089
3.339	I	F'	-13.971	-13.963	-13.955	-13.948	-13.940	-13.933	-13.925	-13.918	-13.911	-13.904
	I	F''	10.090	10.090	10.091	10.091	10.092	10.092	10.093	10.093	10.094	10.094

ATOMIC SYMBOL = IN		ATOMIC NUMBER = 49		L ₂ ABSORPTION EDGE (3.14730 Å; 3.9391 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
3.133	I F'	-12.994	-13.004	-13.014	-13.023	-13.033	-13.043	-13.053	-13.063	-13.073	-13.084
	I F''	-13.689	-13.690	-13.691	-13.691	-13.692	-13.693	-13.694	-13.695	-13.695	-13.696
3.134	I F'	-13.094	-13.104	-13.115	-13.125	-13.135	-13.146	-13.157	-13.167	-13.178	-13.189
	I F''	-13.697	-13.698	-13.698	-13.699	-13.700	-13.701	-13.702	-13.702	-13.703	-13.704
3.135	I F'	-13.200	-13.211	-13.222	-13.233	-13.244	-13.255	-13.267	-13.278	-13.290	-13.301
	I F''	-13.705	-13.705	-13.706	-13.707	-13.708	-13.709	-13.709	-13.710	-13.711	-13.712
3.136	I F'	-13.313	-13.325	-13.337	-13.349	-13.361	-13.373	-13.385	-13.397	-13.410	-13.422
	I F''	-13.712	-13.713	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.719
3.137	I F'	-13.435	-13.447	-13.460	-13.473	-13.486	-13.499	-13.512	-13.526	-13.539	-13.553
	I F''	-13.720	-13.721	-13.722	-13.722	-13.723	-13.724	-13.725	-13.726	-13.726	-13.727
3.138	I F'	-13.566	-13.580	-13.594	-13.608	-13.622	-13.637	-13.651	-13.666	-13.680	-13.695
	I F''	-13.728	-13.729	-13.729	-13.730	-13.731	-13.732	-13.733	-13.733	-13.734	-13.735
3.139	I F'	-13.710	-13.725	-13.741	-13.756	-13.772	-13.787	-13.803	-13.819	-13.836	-13.852
	I F''	-13.736	-13.736	-13.737	-13.738	-13.739	-13.740	-13.740	-13.741	-13.742	-13.743
3.140	I F'	-13.869	-13.886	-13.903	-13.920	-13.937	-13.955	-13.973	-13.991	-14.009	-14.027
	I F''	-13.743	-13.744	-13.745	-13.746	-13.747	-13.747	-13.748	-13.749	-13.750	-13.750
3.141	I F'	-14.046	-14.065	-14.084	-14.104	-14.123	-14.143	-14.163	-14.184	-14.205	-14.226
	I F''	-13.751	-13.752	-13.753	-13.753	-13.754	-13.755	-13.755	-13.757	-13.757	-13.758
3.142	I F'	-14.247	-14.269	-14.291	-14.314	-14.336	-14.360	-14.383	-14.407	-14.431	-14.456
	I F''	-13.759	-13.760	-13.760	-13.761	-13.762	-13.763	-13.764	-13.764	-13.765	-13.766
3.143	I F'	-14.481	-14.507	-14.533	-14.560	-14.587	-14.615	-14.643	-14.672	-14.701	-14.731
	I F''	-13.767	-13.767	-13.768	-13.769	-13.770	-13.771	-13.771	-13.772	-13.773	-13.774
3.144	I F'	-14.762	-14.793	-14.826	-14.858	-14.892	-14.927	-14.962	-14.999	-15.036	-15.075
	I F''	-13.774	-13.775	-13.776	-13.777	-13.778	-13.778	-13.779	-13.780	-13.781	-13.781
3.145	I F'	-15.115	-15.155	-15.198	-15.241	-15.286	-15.333	-15.381	-15.431	-15.483	-15.537
	I F''	-13.782	-13.783	-13.784	-13.785	-13.785	-13.786	-13.787	-13.788	-13.788	-13.789
3.146	I F'	-15.594	-15.653	-15.714	-15.779	-15.847	-15.920	-15.996	-16.077	-16.163	-16.256
	I F''	-13.790	-13.791	-13.792	-13.792	-13.793	-13.794	-13.795	-13.795	-13.796	-13.797
3.147	I F'	-16.356	-16.465	-16.583	-16.714	-16.860	-17.025	-17.215	-17.439	-17.712	-18.061
	I F''	-13.798	-13.799	-13.799	-13.800	-13.801	-13.802	-13.802	-13.803	-13.803	-13.805
3.148	I F'	-18.549	-19.365	-22.731	-19.519	-18.624	-18.113	-17.754	-17.477	-17.252	-17.063
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.149	I F'	-16.899	-16.755	-16.626	-16.510	-16.404	-16.307	-16.218	-16.134	-16.056	-15.984
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.150	I F'	-15.915	-15.850	-15.789	-15.730	-15.675	-15.622	-15.571	-15.523	-15.476	-15.431
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.151	I F'	-15.388	-15.347	-15.307	-15.269	-15.231	-15.195	-15.160	-15.126	-15.094	-15.062
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.152	I F'	-15.031	-15.000	-14.971	-14.943	-14.915	-14.888	-14.861	-14.835	-14.810	-14.785
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.153	I F'	-14.761	-14.738	-14.715	-14.692	-14.670	-14.648	-14.627	-14.606	-14.586	-14.566
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.154	I F'	-14.547	-14.527	-14.509	-14.490	-14.472	-14.454	-14.436	-14.419	-14.402	-14.386
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.155	I F'	-14.369	-14.353	-14.337	-14.321	-14.306	-14.291	-14.276	-14.261	-14.247	-14.233
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.156	I F'	-14.219	-14.205	-14.191	-14.178	-14.164	-14.151	-14.138	-14.126	-14.113	-14.101
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.157	I F'	-14.088	-14.076	-14.065	-14.053	-14.041	-14.030	-14.018	-14.007	-13.996	-13.985
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.158	I F'	-13.974	-13.964	-13.953	-13.943	-13.933	-13.922	-13.912	-13.902	-13.893	-13.883
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.159	I F'	-13.873	-13.864	-13.854	-13.845	-13.836	-13.827	-13.818	-13.809	-13.800	-13.791
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807
3.160	I F'	-13.783	-13.774	-13.766	-13.758	-13.749	-13.741	-13.733	-13.725	-13.717	-13.709
	I F''	-13.806	-13.806	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807	-13.807

ATOMIC SYMBOL = SN		ATOMIC NUMBER = 50		L ₂ ABSORPTION EDGE (2.98230 Å; 4.1571 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.968	I F'	-12.714	-12.724	-12.734	-12.744	-12.754	-12.764	-12.774	-12.784	-12.794	-12.805
	I F''	-13.594	-13.595	-13.596	-13.597	-13.598	-13.599	-13.599	-13.600	-13.601	-13.602
2.969	I F'	-12.815	-12.826	-12.836	-12.847	-12.857	-12.868	-12.879	-12.890	-12.901	-12.912
	I F''	-13.603	-13.604	-13.604	-13.605	-13.606	-13.607	-13.608	-13.609	-13.610	-13.610
2.970	I F'	-12.923	-12.934	-12.945	-12.957	-12.968	-12.980	-12.991	-13.003	-13.014	-13.026
	I F''	-13.611	-13.612	-13.613	-13.614	-13.615	-13.616	-13.616	-13.617	-13.618	-13.619
2.971	I F'	-13.038	-13.050	-13.062	-13.074	-13.087	-13.099	-13.111	-13.124	-13.137	-13.149
	I F''	-13.620	-13.621	-13.621	-13.622	-13.623	-13.624	-13.625	-13.626	-13.627	-13.627
2.972	I F'	-13.162	-13.175	-13.188	-13.201	-13.215	-13.228	-13.241	-13.255	-13.269	-13.283
	I F''	-13.628	-13.629	-13.630	-13.631	-13.632	-13.633	-13.633	-13.634	-13.635	-13.636
2.973	I F'	-13.297	-13.311	-13.325	-13.339	-13.354	-13.368	-13.383	-13.398	-13.413	-13.428
	I F''	-13.637	-13.638	-13.639	-13.639	-13.640	-13.641	-13.642	-13.643	-13.644	-13.645
2.974	I F'	-13.444	-13.459	-13.475	-13.491	-13.507	-13.523	-13.539	-13.556	-13.572	-13.589
	I F''	-13.645	-13.646	-13.647	-13.648	-13.649	-13.650	-13.650	-13.651	-13.652	-13.653
2.975	I F'	-13.606	-13.624	-13.641	-13.659	-13.677	-13.695	-13.713	-13.731	-13.750	-13.769
	I F''	-13.654	-13.655	-13.656	-13.656	-13.657	-13.658	-13.659	-13.660	-13.661	-13.662
2.976	I F'	-13.789	-13.808	-13.828	-13.848	-13.868	-13.889	-13.910	-13.931	-13.952	-13.974
	I F''	-13.662	-13.663	-13.664	-13.665	-13.666	-13.667	-13.668	-13.668	-13.669	-13.670
2.977	I F'	-13.996	-14.019	-14.042	-14.065	-14.089	-14.113	-14.137	-14.162	-14.187	-14.213
	I F''	-13.671	-13.672	-13.673	-13.674	-13.674	-13.675	-13.676	-13.677	-13.678	-13.679
2.978	I F'	-14.239	-14.266	-14.293	-14.321	-14.350	-14.379	-14.408	-14.438	-14.469	-14.501
	I F''	-13.680	-13.680	-13.681	-13.682	-13.683	-13.684	-13.685	-13.685	-13.686	-13.687
2.979	I F'	-14.533	-14.566	-14.600	-14.635	-14.671	-14.707	-14.745	-14.784	-14.824	-14.865
	I F''	-13.688	-13.689	-13.690	-13.691	-13.691	-13.692	-13.693	-13.694	-13.695	-13.696
2.980	I F'	-14.907	-14.951	-14.996	-15.043	-15.091	-15.142	-15.194	-15.248	-15.305	-15.365
	I F''	-13.697	-13.697	-13.698	-13.699	-13.700	-13.701	-13.702	-13.703	-13.703	-13.704
2.981	I F'	-15.427	-15.492	-15.561	-15.633	-15.710	-15.792	-15.879	-15.973	-16.074	-16.183
	I F''	-13.705	-13.706	-13.707	-13.708	-13.709	-13.709	-13.710	-13.711	-13.712	-13.713
2.982	I F'	-16.303	-16.435	-16.583	-16.750	-16.943	-17.171	-17.449	-17.808	-18.314	-19.182
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.983	I F'	-24.132	-19.120	-18.280	-17.787	-17.437	-17.165	-16.944	-16.756	-16.595	-16.452
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.984	I F'	-16.324	-16.209	-16.104	-16.008	-15.919	-15.836	-15.759	-15.686	-15.618	-15.553
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.985	I F'	-15.492	-15.434	-15.378	-15.326	-15.275	-15.227	-15.181	-15.136	-15.093	-15.052
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.986	I F'	-15.012	-14.974	-14.937	-14.901	-14.866	-14.832	-14.799	-14.767	-14.736	-14.706
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.987	I F'	-14.677	-14.649	-14.621	-14.594	-14.567	-14.542	-14.516	-14.492	-14.468	-14.444
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.988	I F'	-14.421	-14.393	-14.377	-14.355	-14.334	-14.313	-14.293	-14.273	-14.254	-14.234
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.989	I F'	-14.216	-14.197	-14.179	-14.161	-14.144	-14.127	-14.110	-14.093	-14.077	-14.061
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.990	I F'	-14.045	-14.029	-14.014	-13.999	-13.984	-13.969	-13.955	-13.940	-13.926	-13.913
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.991	I F'	-13.899	-13.886	-13.872	-13.859	-13.847	-13.834	-13.821	-13.809	-13.797	-13.785
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.992	I F'	-13.773	-13.761	-13.750	-13.738	-13.727	-13.716	-13.705	-13.694	-13.683	-13.672
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.993	I F'	-13.662	-13.652	-13.641	-13.631	-13.621	-13.611	-13.602	-13.592	-13.582	-13.573
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.994	I F'	-13.563	-13.554	-13.545	-13.536	-13.527	-13.518	-13.509	-13.501	-13.492	-13.484
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721
2.995	I F'	-13.475	-13.467	-13.459	-13.451	-13.442	-13.434	-13.427	-13.419	-13.411	-13.403
	I F''	-13.714	-13.715	-13.715	-13.716	-13.717	-13.718	-13.719	-13.720	-13.721	-13.721

ATOMIC SYMBOL = SB			ATOMIC NUMBER = 51		L ₂ ABSORPTION EDGE (2.82940 Å; 4.3817 KEV)							
	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.815	I	F'	-12.397	-12.406	-12.416	-12.426	-12.436	-12.446	-12.455	-12.465	-12.476	-12.486
	I	F''	13.480	13.481	13.481	13.482	13.483	13.484	13.485	13.486	13.487	13.488
2.816	I	F'	-12.496	-12.506	-12.516	-12.527	-12.537	-12.548	-12.558	-12.569	-12.580	-12.591
	I	F''	13.489	13.490	13.491	13.491	13.492	13.493	13.494	13.495	13.496	13.497
2.817	I	F'	-12.601	-12.612	-12.623	-12.634	-12.646	-12.657	-12.668	-12.679	-12.691	-12.702
	I	F''	13.498	13.499	13.500	13.501	13.501	13.502	13.503	13.504	13.505	13.506
2.818	I	F'	-12.714	-12.726	-12.738	-12.749	-12.761	-12.774	-12.786	-12.798	-12.810	-12.823
	I	F''	13.507	13.508	13.509	13.510	13.511	13.511	13.512	13.513	13.514	13.515
2.819	I	F'	-12.835	-12.848	-12.861	-12.873	-12.886	-12.899	-12.913	-12.926	-12.939	-12.953
	I	F''	13.516	13.517	13.518	13.519	13.520	13.521	13.521	13.522	13.523	13.524
2.820	I	F'	-12.966	-12.980	-12.994	-13.008	-13.022	-13.036	-13.050	-13.065	-13.080	-13.094
	I	F''	13.525	13.526	13.527	13.528	13.529	13.530	13.531	13.531	13.532	13.533
2.821	I	F'	-13.109	-13.124	-13.139	-13.155	-13.170	-13.186	-13.202	-13.218	-13.234	-13.250
	I	F''	13.534	13.535	13.536	13.537	13.538	13.539	13.540	13.541	13.541	13.542
2.822	I	F'	-13.267	-13.283	-13.300	-13.317	-13.335	-13.352	-13.370	-13.388	-13.406	-13.424
	I	F''	13.543	13.544	13.545	13.546	13.547	13.548	13.549	13.550	13.551	13.551
2.823	I	F'	-13.443	-13.462	-13.481	-13.500	-13.519	-13.539	-13.559	-13.580	-13.600	-13.621
	I	F''	13.552	13.553	13.554	13.555	13.556	13.557	13.558	13.559	13.560	13.561
2.824	I	F'	-13.643	-13.664	-13.686	-13.708	-13.731	-13.754	-13.777	-13.801	-13.825	-13.849
	I	F''	13.561	13.562	13.563	13.564	13.565	13.566	13.567	13.568	13.569	13.570
2.825	I	F'	-13.874	-13.900	-13.926	-13.952	-13.979	-14.006	-14.034	-14.063	-14.092	-14.122
	I	F''	13.571	13.572	13.572	13.573	13.574	13.575	13.576	13.577	13.578	13.579
2.826	I	F'	-14.152	-14.185	-14.215	-14.247	-14.281	-14.315	-14.350	-14.386	-14.423	-14.461
	I	F''	13.580	13.581	13.582	13.582	13.583	13.584	13.585	13.586	13.587	13.588
2.827	I	F'	-14.500	-14.540	-14.581	-14.624	-14.668	-14.714	-14.761	-14.810	-14.861	-14.914
	I	F''	13.589	13.590	13.591	13.592	13.593	13.593	13.594	13.595	13.596	13.597
2.828	I	F'	-14.969	-15.027	-15.087	-15.151	-15.217	-15.287	-15.361	-15.440	-15.523	-15.613
	I	F''	13.598	13.599	13.600	13.601	13.602	13.603	13.603	13.604	13.605	13.606
2.829	I	F'	-15.709	-15.813	-15.927	-16.051	-16.189	-16.344	-16.521	-16.727	-16.974	-17.283
	I	F''	13.607	13.608	13.609	13.610	13.611	13.612	13.613	13.614	13.614	13.615
2.830	I	F'	-17.694	-18.314	-19.620	-19.730	-18.362	-17.711	-17.298	-16.990	-16.745	-16.542
	I	F''	13.616	13.617	13.618	9.765	9.765	9.766	9.767	9.767	9.768	9.768
2.831	I	F'	-16.368	-16.217	-16.082	-15.962	-15.852	-15.752	-15.659	-15.574	-15.494	-15.419
	I	F''	9.769	9.769	9.770	9.771	9.771	9.772	9.772	9.773	9.773	9.774
2.832	I	F'	-15.349	-15.283	-15.220	-15.161	-15.105	-15.051	-15.000	-14.950	-14.903	-14.858
	I	F''	9.775	9.775	9.776	9.776	9.777	9.777	9.778	9.778	9.779	9.780
2.833	I	F'	-14.815	-14.773	-14.733	-14.694	-14.656	-14.620	-14.585	-14.550	-14.517	-14.485
	I	F''	9.780	9.781	9.781	9.782	9.782	9.783	9.784	9.784	9.785	9.785
2.834	I	F'	-14.454	-14.424	-14.394	-14.365	-14.338	-14.310	-14.284	-14.258	-14.232	-14.208
	I	F''	9.786	9.786	9.787	9.788	9.788	9.789	9.789	9.790	9.790	9.791
2.835	I	F'	-14.184	-14.160	-14.137	-14.114	-14.092	-14.071	-14.049	-14.029	-14.008	-13.988
	I	F''	9.792	9.792	9.793	9.793	9.794	9.794	9.795	9.795	9.796	9.797
2.836	I	F'	-13.969	-13.949	-13.931	-13.912	-13.894	-13.876	-13.858	-13.841	-13.824	-13.808
	I	F''	9.797	9.798	9.798	9.799	9.799	9.800	9.801	9.801	9.802	9.802
2.837	I	F'	-13.791	-13.775	-13.759	-13.744	-13.728	-13.713	-13.698	-13.684	-13.669	-13.655
	I	F''	9.803	9.803	9.804	9.805	9.805	9.806	9.806	9.807	9.807	9.808
2.838	I	F'	-13.641	-13.627	-13.614	-13.600	-13.587	-13.574	-13.561	-13.548	-13.536	-13.524
	I	F''	9.808	9.809	9.810	9.810	9.811	9.811	9.812	9.812	9.813	9.814
2.839	I	F'	-13.511	-13.499	-13.488	-13.476	-13.464	-13.453	-13.442	-13.431	-13.420	-13.409
	I	F''	9.814	9.815	9.815	9.816	9.816	9.817	9.818	9.818	9.819	9.819
2.840	I	F'	-13.398	-13.387	-13.377	-13.367	-13.356	-13.346	-13.336	-13.326	-13.317	-13.307
	I	F''	9.820	9.820	9.821	9.822	9.822	9.823	9.823	9.824	9.824	9.825
2.841	I	F'	-13.297	-13.288	-13.279	-13.269	-13.260	-13.251	-13.242	-13.234	-13.225	-13.216
	I	F''	9.825	9.826	9.827	9.827	9.828	9.828	9.829	9.829	9.830	9.831
2.842	I	F'	-13.208	-13.199	-13.191	-13.182	-13.174	-13.166	-13.158	-13.150	-13.142	-13.134
	I	F''	9.831	9.832	9.832	9.833	9.833	9.834	9.835	9.835	9.836	9.836

ATOMIC SYMBOL = TE			ATOMIC NUMBER = 52		L ₂ ABSORPTION EDGE (2.68790 Å; 4.6124 KEV)							
	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.674	I	F'	-12.241	-12.252	-12.262	-12.272	-12.283	-12.293	-12.304	-12.314	-12.325	-12.336
	I	F''	13.364	13.365	13.366	13.367	13.368	13.369	13.370	13.371	13.372	13.373
2.675	I	F'	-12.347	-12.358	-12.369	-12.380	-12.391	-12.402	-12.413	-12.425	-12.436	-12.448
	I	F''	13.374	13.375	13.375	13.376	13.377	13.378	13.379	13.380	13.381	13.382
2.676	I	F'	-12.459	-12.471	-12.483	-12.495	-12.507	-12.519	-12.531	-12.543	-12.556	-12.568
	I	F''	13.383	13.384	13.385	13.386	13.387	13.388	13.389	13.390	13.391	13.392
2.677	I	F'	-12.581	-12.593	-12.606	-12.619	-12.632	-12.645	-12.658	-12.671	-12.685	-12.698
	I	F''	13.393	13.393	13.394	13.395	13.396	13.397	13.398	13.399	13.400	13.401
2.678	I	F'	-12.712	-12.726	-12.739	-12.753	-12.768	-12.782	-12.796	-12.811	-12.825	-12.840
	I	F''	13.402	13.403	13.404	13.405	13.406	13.407	13.408	13.409	13.410	13.411
2.679	I	F'	-12.855	-12.870	-12.886	-12.901	-12.917	-12.932	-12.948	-12.964	-12.981	-12.997
	I	F''	13.411	13.412	13.413	13.414	13.415	13.416	13.417	13.418	13.419	13.420
2.680	I	F'	-13.014	-13.030	-13.047	-13.064	-13.082	-13.099	-13.117	-13.135	-13.153	-13.172
	I	F''	13.421	13.422	13.423	13.424	13.425	13.426	13.427	13.428	13.429	13.430
2.681	I	F'	-13.191	-13.210	-13.229	-13.248	-13.268	-13.288	-13.308	-13.329	-13.350	-13.371
	I	F''	13.431	13.431	13.432	13.433	13.434	13.435	13.436	13.437	13.438	13.439
2.682	I	F'	-13.392	-13.414	-13.436	-13.459	-13.481	-13.505	-13.528	-13.552	-13.577	-13.601
	I	F''	13.440	13.441	13.442	13.443	13.444	13.445	13.446	13.447	13.448	13.449
2.683	I	F'	-13.627	-13.653	-13.679	-13.706	-13.733	-13.761	-13.789	-13.818	-13.848	-13.878
	I	F''	13.450	13.450	13.451	13.452	13.453	13.454	13.455	13.456	13.457	13.458
2.684	I	F'	-13.909	-13.941	-13.973	-14.006	-14.040	-14.075	-14.111	-14.148	-14.186	-14.225
	I	F''	13.459	13.460	13.461	13.462	13.463	13.464	13.465	13.466	13.467	13.468
2.685	I	F'	-14.265	-14.306	-14.349	-14.393	-14.439	-14.486	-14.535	-14.586	-14.639	-14.695
	I	F''	13.469	13.470	13.470	13.471	13.472	13.473	13.474	13.475	13.476	13.477
2.686	I	F'	-14.753	-14.813	-14.876	-14.943	-15.014	-15.088	-15.167	-15.252	-15.342	-15.439
	I	F''	13.478	13.479	13.480	13.481	13.482	13.483	13.484	13.485	13.486	13.487
2.687	I	F'	-15.344	-15.460	-15.578	-15.697	-15.818	-15.941	-16.066	-16.194	-16.325	-16.459
	I	F''	13.488	13.489	13.490	13.491	13.492	13.493	13.494	13.495	13.496	13.497
2.688	I	F'	-18.223	-20.127	-18.860	-17.823	-17.274	-16.899	-16.614	-16.384	-16.191	-16.025
	I	F''	13.497	13.498	9.682	9.683	9.683	9.684	9.684	9.685	9.686	9.686
2.689	I	F'	-15.880	-15.751	-15.634	-15.528	-15.431	-15.342	-15.258	-15.181	-15.108	-15.040
	I	F''	9.687	9.687	9.688	9.689	9.689	9.690	9.690	9.691	9.692	9.692
2.690	I	F'	-14.975	-14.914	-14.856	-14.801	-14.749	-14.698	-14.650	-14.604	-14.560	-14.517
	I	F''	9.693	9.693	9.694	9.695	9.695	9.696	9.696	9.697	9.697	9.698
2.691	I	F'	-14.476	-14.437	-14.399	-14.362	-14.326	-14.292	-14.258	-14.226	-14.194	-14.163
	I	F''	9.699	9.699	9.700	9.700	9.701	9.702	9.702	9.703	9.703	9.704
2.692	I	F'	-14.134	-14.105	-14.076	-14.049	-14.022	-13.996	-13.971	-13.946	-13.921	-13.898
	I	F''	9.705	9.705	9.706	9.706	9.707	9.708	9.708	9.709	9.709	9.710
2.693	I	F'	-13.874	-13.852	-13.829	-13.808	-13.786	-13.766	-13.745	-13.725	-13.705	-13.686
	I	F''	9.711	9.711	9.712	9.712	9.713	9.713	9.714	9.715	9.715	9.716
2.694	I	F'	-13.667	-13.649	-13.630	-13.613	-13.595	-13.578	-13.561	-13.544	-13.528	-13.512
	I	F''	9.716	9.717	9.718	9.718	9.719	9.719	9.720	9.721	9.721	9.722
2.695	I	F'	-13.496	-13.480	-13.465	-13.450	-13.435	-13.420	-13.406	-13.391	-13.377	-13.364
	I	F''	9.722	9.723	9.724	9.724	9.725	9.725	9.726	9.727	9.727	9.728
2.696	I	F'	-13.350	-13.337	-13.323	-13.310	-13.298	-13.285	-13.272	-13.260	-13.248	-13.236
	I	F''	9.728	9.729	9.729	9.730	9.731	9.731	9.732	9.732	9.733	9.733
2.697	I	F'	-13.224	-13.212	-13.201	-13.190	-13.178	-13.167	-13.156	-13.145	-13.135	-13.124
	I	F''	9.734	9.735	9.735	9.736	9.737	9.737	9.738	9.738	9.739	9.740
2.698	I	F'	-13.114	-13.103	-13.093	-13.083	-13.073	-13.063	-13.054	-13.044	-13.035	-13.025
	I	F''	9.740	9.741	9.741	9.742	9.742	9.743	9.744	9.744	9.745	9.746
2.699	I	F'	-13.016	-13.007	-12.998	-12.989	-12.980	-12.971	-12.962	-12.954	-12.945	-12.937
	I	F''	9.746	9.747	9.747	9.748	9.748	9.749	9.750	9.750	9.751	9.751
2.700	I	F'	-12.928	-12.920	-12.912	-12.904	-12.896	-12.888	-12.880	-12.872	-12.865	-12.857
	I	F''	9.752	9.753	9.753	9.754	9.754	9.755	9.756	9.756	9.757	9.757
2.701	I	F'	-12.850	-12.842	-12.835	-12.827	-12.820	-12.813	-12.806	-12.799	-12.792	-12.785
	I	F''	9.758	9.759	9.759	9.760	9.760	9.761	9.762	9.762	9.763	9.763

ATOMIC SYMBOL = I		ATOMIC NUMBER = 53		L ₂ ABSORPTION EDGE (2.55420 Å)		4.8538 KEV)					
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.540	I F'	-11.884	-11.893	-11.903	-11.913	-11.922	-11.932	-11.942	-11.952	-11.962	-11.972
	I F"	13.222	13.223	13.224	13.225	13.226	13.227	13.228	13.229	13.230	13.231
2.541	I F'	-11.982	-11.992	-12.002	-12.012	-12.023	-12.033	-12.044	-12.054	-12.065	-12.075
	I F"	13.232	13.233	13.234	13.235	13.236	13.237	13.238	13.239	13.240	13.241
2.542	I F'	-12.086	-12.097	-12.108	-12.119	-12.130	-12.141	-12.152	-12.164	-12.175	-12.186
	I F"	13.242	13.243	13.244	13.245	13.246	13.247	13.248	13.248	13.249	13.250
2.543	I F'	-12.198	-12.209	-12.221	-12.233	-12.245	-12.257	-12.269	-12.281	-12.293	-12.305
	I F"	13.251	13.252	13.253	13.254	13.255	13.256	13.257	13.258	13.259	13.260
2.544	I F'	-12.318	-12.330	-12.343	-12.356	-12.369	-12.382	-12.395	-12.408	-12.421	-12.434
	I F"	13.261	13.262	13.263	13.264	13.265	13.266	13.267	13.268	13.269	13.270
2.545	I F'	-12.448	-12.462	-12.475	-12.489	-12.503	-12.517	-12.532	-12.546	-12.560	-12.575
	I F"	13.271	13.272	13.273	13.274	13.275	13.276	13.277	13.278	13.279	13.280
2.546	I F'	-12.590	-12.605	-12.620	-12.635	-12.651	-12.666	-12.682	-12.698	-12.714	-12.730
	I F"	13.281	13.282	13.283	13.284	13.285	13.286	13.287	13.288	13.289	13.290
2.547	I F'	-12.747	-12.763	-12.780	-12.797	-12.815	-12.832	-12.850	-12.867	-12.886	-12.904
	I F"	13.291	13.292	13.293	13.294	13.295	13.296	13.297	13.298	13.299	13.300
2.548	I F'	-12.922	-12.941	-12.960	-12.979	-12.999	-13.019	-13.039	-13.059	-13.080	-13.101
	I F"	13.301	13.302	13.303	13.304	13.305	13.306	13.307	13.308	13.309	13.310
2.549	I F'	-13.122	-13.144	-13.166	-13.188	-13.211	-13.234	-13.257	-13.281	-13.305	-13.330
	I F"	13.310	13.311	13.312	13.313	13.314	13.315	13.316	13.317	13.318	13.319
2.550	I F'	-13.355	-13.381	-13.407	-13.433	-13.460	-13.488	-13.516	-13.545	-13.574	-13.604
	I F"	13.320	13.321	13.322	13.323	13.324	13.325	13.326	13.327	13.328	13.329
2.551	I F'	-13.635	-13.667	-13.699	-13.732	-13.766	-13.800	-13.836	-13.873	-13.910	-13.949
	I F"	13.330	13.331	13.332	13.333	13.334	13.335	13.336	13.337	13.338	13.339
2.552	I F'	-13.989	-14.030	-14.073	-14.117	-14.162	-14.209	-14.258	-14.309	-14.362	-14.417
	I F"	13.340	13.341	13.342	13.343	13.344	13.345	13.346	13.347	13.348	13.349
2.553	I F'	-14.475	-14.535	-14.598	-14.665	-14.735	-14.810	-14.889	-14.973	-15.064	-15.161
	I F"	13.350	13.351	13.352	13.353	13.354	13.355	13.356	13.357	13.358	13.359
2.554	I F'	-15.267	-15.383	-15.510	-15.653	-15.813	-15.999	-16.217	-16.482	-16.822	-17.296
	I F"	13.360	13.361	13.362	13.363	13.364	13.365	13.366	13.367	13.368	13.369
2.555	I F'	-18.086	-21.221	-18.258	-17.379	-16.880	-16.529	-16.259	-16.040	-15.855	-15.695
	I F"	13.370	13.371	9.598	9.599	9.599	9.600	9.600	9.601	9.602	9.602
2.556	I F'	-15.555	-15.430	-15.317	-15.214	-15.119	-15.032	-14.951	-14.875	-14.804	-14.737
	I F"	9.603	9.603	9.604	9.605	9.605	9.606	9.607	9.607	9.608	9.608
2.557	I F'	-14.674	-14.614	-14.557	-14.503	-14.452	-14.405	-14.356	-14.310	-14.267	-14.225
	I F"	9.609	9.610	9.610	9.611	9.612	9.612	9.613	9.613	9.614	9.614
2.558	I F'	-14.185	-14.146	-14.109	-14.072	-14.037	-14.005	-13.970	-13.939	-13.908	-13.877
	I F"	9.615	9.616	9.617	9.617	9.618	9.618	9.619	9.620	9.621	9.621
2.559	I F'	-13.848	-13.820	-13.792	-13.765	-13.739	-13.713	-13.688	-13.663	-13.639	-13.616
	I F"	9.621	9.622	9.623	9.623	9.624	9.625	9.625	9.626	9.626	9.627
2.560	I F'	-13.593	-13.571	-13.549	-13.528	-13.507	-13.486	-13.466	-13.446	-13.427	-13.408
	I F"	9.628	9.628	9.629	9.630	9.630	9.631	9.631	9.632	9.633	9.633
2.561	I F'	-13.389	-13.371	-13.353	-13.336	-13.318	-13.301	-13.285	-13.268	-13.252	-13.236
	I F"	9.634	9.634	9.635	9.636	9.636	9.637	9.638	9.638	9.639	9.639
2.562	I F'	-13.220	-13.205	-13.190	-13.175	-13.160	-13.146	-13.132	-13.118	-13.104	-13.090
	I F"	9.640	9.641	9.641	9.642	9.643	9.643	9.644	9.644	9.645	9.646
2.563	I F'	-13.077	-13.064	-13.051	-13.038	-13.025	-13.013	-13.001	-12.989	-12.977	-12.965
	I F"	9.646	9.647	9.648	9.648	9.649	9.649	9.650	9.651	9.651	9.652
2.564	I F'	-12.933	-12.942	-12.930	-12.919	-12.908	-12.897	-12.886	-12.876	-12.865	-12.855
	I F"	9.652	9.653	9.654	9.654	9.655	9.656	9.656	9.657	9.657	9.658
2.565	I F'	-12.844	-12.834	-12.824	-12.814	-12.805	-12.795	-12.785	-12.776	-12.767	-12.757
	I F"	9.659	9.659	9.660	9.661	9.661	9.662	9.662	9.663	9.664	9.664
2.566	I F'	-12.748	-12.739	-12.730	-12.721	-12.713	-12.704	-12.695	-12.687	-12.678	-12.670
	I F"	9.665	9.666	9.666	9.667	9.667	9.668	9.669	9.669	9.670	9.670
2.567	I F'	-12.662	-12.654	-12.646	-12.638	-12.630	-12.622	-12.615	-12.607	-12.599	-12.592
	I F"	9.671	9.672	9.672	9.673	9.674	9.674	9.675	9.675	9.676	9.677

ATOMIC SYMBOL = Xe		ATOMIC NUMBER = 54		L ₂ ABSORPTION EDGE (2.42920 Å; 5.1036 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.415	I F'	-11.711	-11.721	-11.731	-11.741	-11.751	-11.762	-11.772	-11.782	-11.793	-11.803
	I F"	13.102	13.103	13.104	13.105	13.106	13.107	13.108	13.109	13.110	13.111
2.416	I F'	-11.814	-11.825	-11.835	-11.846	-11.857	-11.868	-11.879	-11.890	-11.901	-11.913
	I F"	13.112	13.114	13.115	13.116	13.117	13.118	13.119	13.120	13.121	13.122
2.417	I F'	-11.924	-11.935	-11.947	-11.959	-11.970	-11.982	-11.994	-12.006	-12.018	-12.030
	I F"	13.123	13.124	13.125	13.126	13.127	13.128	13.129	13.130	13.131	13.132
2.418	I F'	-12.042	-12.055	-12.067	-12.080	-12.092	-12.105	-12.118	-12.131	-12.144	-12.157
	I F"	13.133	13.134	13.135	13.136	13.137	13.138	13.139	13.140	13.141	13.142
2.419	I F'	-12.171	-12.184	-12.198	-12.211	-12.225	-12.239	-12.253	-12.267	-12.282	-12.296
	I F"	13.143	13.144	13.145	13.146	13.147	13.148	13.149	13.150	13.151	13.152
2.420	I F'	-12.311	-12.326	-12.340	-12.356	-12.371	-12.386	-12.402	-12.417	-12.433	-12.449
	I F"	13.153	13.154	13.155	13.156	13.157	13.158	13.159	13.160	13.161	13.162
2.421	I F'	-12.465	-12.482	-12.498	-12.515	-12.532	-12.549	-12.567	-12.584	-12.602	-12.620
	I F"	13.163	13.165	13.166	13.167	13.168	13.169	13.170	13.171	13.172	13.173
2.422	I F'	-12.638	-12.657	-12.676	-12.695	-12.714	-12.733	-12.753	-12.773	-12.793	-12.813
	I F"	13.174	13.175	13.176	13.177	13.178	13.179	13.180	13.181	13.182	13.183
2.423	I F'	-12.835	-12.856	-12.878	-12.900	-12.922	-12.945	-12.968	-12.991	-13.015	-13.039
	I F"	13.184	13.185	13.186	13.187	13.188	13.189	13.190	13.191	13.192	13.193
2.424	I F'	-13.064	-13.089	-13.115	-13.141	-13.167	-13.194	-13.222	-13.250	-13.279	-13.309
	I F"	13.194	13.195	13.196	13.197	13.198	13.199	13.200	13.201	13.202	13.203
2.425	I F'	-13.339	-13.370	-13.401	-13.434	-13.467	-13.501	-13.536	-13.572	-13.608	-13.646
	I F"	13.204	13.205	13.206	13.208	13.209	13.210	13.211	13.212	13.213	13.214
2.426	I F'	-13.685	-13.726	-13.767	-13.810	-13.854	-13.900	-13.948	-13.998	-14.049	-14.103
	I F"	13.215	13.216	13.217	13.218	13.219	13.220	13.221	13.222	13.223	13.224
2.427	I F'	-14.159	-14.217	-14.279	-14.343	-14.412	-14.484	-14.560	-14.641	-14.728	-14.822
	I F"	13.225	13.226	13.227	13.228	13.229	13.230	13.231	13.232	13.233	13.234
2.428	I F'	-14.923	-15.034	-15.155	-15.290	-15.441	-15.614	-15.813	-16.057	-16.360	-16.765
	I F"	13.235	13.236	13.237	13.238	13.239	13.240	13.241	13.242	13.243	13.244
2.429	I F'	-17.383	-18.735	-18.584	-17.326	-16.732	-16.339	-16.046	-15.811	-15.616	-15.449
	I F"	13.245	13.246	9.515	9.516	9.517	9.517	9.518	9.519	9.519	9.520
2.430	I F'	-15.304	-15.174	-15.058	-14.953	-14.856	-14.767	-14.684	-14.608	-14.536	-14.468
	I F"	9.520	9.521	9.522	9.522	9.523	9.524	9.524	9.525	9.526	9.526
2.431	I F'	-14.404	-14.344	-14.287	-14.232	-14.180	-14.131	-14.083	-14.038	-13.994	-13.952
	I F"	9.527	9.528	9.528	9.529	9.530	9.530	9.531	9.531	9.532	9.533
2.432	I F'	-13.912	-13.873	-13.836	-13.799	-13.764	-13.730	-13.697	-13.665	-13.634	-13.604
	I F"	9.533	9.534	9.535	9.535	9.536	9.537	9.537	9.538	9.539	9.539
2.433	I F'	-13.575	-13.547	-13.519	-13.492	-13.466	-13.440	-13.415	-13.391	-13.367	-13.343
	I F"	9.540	9.541	9.541	9.542	9.543	9.543	9.544	9.544	9.545	9.546
2.434	I F'	-13.321	-13.298	-13.277	-13.255	-13.234	-13.214	-13.194	-13.174	-13.155	-13.136
	I F"	9.546	9.547	9.548	9.548	9.549	9.550	9.550	9.551	9.552	9.552
2.435	I F'	-13.118	-13.099	-13.082	-13.064	-13.047	-13.030	-13.013	-12.997	-12.981	-12.965
	I F"	9.553	9.554	9.554	9.555	9.555	9.556	9.557	9.557	9.558	9.559
2.436	I F'	-12.950	-12.934	-12.919	-12.905	-12.890	-12.876	-12.862	-12.848	-12.834	-12.820
	I F"	9.559	9.560	9.561	9.561	9.562	9.563	9.563	9.564	9.565	9.565
2.437	I F'	-12.807	-12.794	-12.781	-12.768	-12.756	-12.744	-12.731	-12.719	-12.707	-12.696
	I F"	9.566	9.567	9.567	9.568	9.568	9.569	9.570	9.570	9.571	9.572
2.438	I F'	-12.684	-12.673	-12.661	-12.650	-12.639	-12.629	-12.618	-12.607	-12.597	-12.587
	I F"	9.572	9.573	9.574	9.574	9.575	9.576	9.576	9.577	9.578	9.578
2.439	I F'	-12.576	-12.566	-12.556	-12.546	-12.537	-12.527	-12.518	-12.508	-12.499	-12.490
	I F"	9.579	9.580	9.580	9.581	9.581	9.582	9.583	9.583	9.584	9.585
2.440	I F'	-12.481	-12.472	-12.463	-12.454	-12.446	-12.437	-12.429	-12.420	-12.412	-12.404
	I F"	9.585	9.586	9.587	9.587	9.588	9.589	9.589	9.590	9.591	9.591
2.441	I F'	-12.396	-12.387	-12.380	-12.372	-12.364	-12.356	-12.349	-12.341	-12.333	-12.326
	I F"	9.592	9.593	9.593	9.594	9.594	9.595	9.596	9.596	9.597	9.598
2.442	I F'	-12.319	-12.311	-12.304	-12.297	-12.290	-12.283	-12.276	-12.269	-12.263	-12.256
	I F"	9.598	9.599	9.600	9.600	9.601	9.602	9.602	9.603	9.604	9.604

ATOMIC SYMBOL = CS			ATOMIC NUMBER= 55		L ₂ ABSORPTION EDGE(2.31390 Å:		5.3579 KEV)					
	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.300	I	F'	-11.552	-11.562	-11.573	-11.583	-11.594	-11.605	-11.616	-11.627	-11.638	-11.649
	I	F''	13.047	13.048	13.049	13.050	13.051	13.052	13.053	13.054	13.055	13.057
2.301	I	F'	-11.660	-11.672	-11.683	-11.694	-11.706	-11.718	-11.729	-11.741	-11.753	-11.765
	I	F''	13.058	13.059	13.060	13.061	13.062	13.063	13.064	13.065	13.066	13.067
2.302	I	F'	-11.777	-11.789	-11.801	-11.814	-11.826	-11.839	-11.852	-11.864	-11.877	-11.890
	I	F''	13.068	13.069	13.071	13.072	13.073	13.074	13.075	13.076	13.077	13.078
2.303	I	F'	-11.903	-11.917	-11.930	-11.943	-11.957	-11.971	-11.985	-11.999	-12.013	-12.027
	I	F''	13.079	13.080	13.081	13.082	13.084	13.085	13.086	13.087	13.088	13.089
2.304	I	F'	-12.041	-12.056	-12.070	-12.085	-12.100	-12.115	-12.131	-12.146	-12.162	-12.177
	I	F''	13.090	13.091	13.092	13.093	13.094	13.095	13.096	13.098	13.099	13.100
2.305	I	F'	-12.193	-12.209	-12.226	-12.242	-12.259	-12.276	-12.293	-12.310	-12.327	-12.345
	I	F''	13.101	13.102	13.103	13.104	13.105	13.106	13.107	13.108	13.109	13.111
2.306	I	F'	-12.363	-12.381	-12.400	-12.418	-12.437	-12.456	-12.475	-12.495	-12.515	-12.535
	I	F''	13.112	13.113	13.114	13.115	13.116	13.117	13.118	13.119	13.120	13.121
2.307	I	F'	-12.556	-12.577	-12.598	-12.619	-12.641	-12.663	-12.686	-12.708	-12.732	-12.755
	I	F''	13.122	13.124	13.125	13.126	13.127	13.128	13.129	13.130	13.131	13.132
2.308	I	F'	-12.779	-12.804	-12.829	-12.854	-12.880	-12.906	-12.933	-12.961	-12.989	-13.018
	I	F''	13.133	13.134	13.135	13.137	13.138	13.139	13.140	13.141	13.142	13.143
2.309	I	F'	-13.047	-13.077	-13.107	-13.139	-13.171	-13.204	-13.238	-13.272	-13.308	-13.344
	I	F''	13.144	13.145	13.146	13.147	13.149	13.150	13.151	13.152	13.153	13.154
2.310	I	F'	-13.382	-13.421	-13.461	-13.502	-13.545	-13.589	-13.634	-13.681	-13.731	-13.782
	I	F''	13.155	13.156	13.157	13.158	13.159	13.160	13.162	13.163	13.164	13.165
2.311	I	F'	-13.835	-13.890	-13.949	-14.009	-14.074	-14.141	-14.212	-14.288	-14.369	-14.455
	I	F''	13.166	13.167	13.168	13.169	13.170	13.171	13.172	13.173	13.175	13.176
2.312	I	F'	-14.548	-14.648	-14.757	-14.877	-15.010	-15.160	-15.330	-15.529	-15.767	-16.065
	I	F''	13.177	13.178	13.179	13.180	13.181	13.182	13.183	13.184	13.185	13.187
2.313	I	F'	-16.462	-17.063	-18.339	-18.381	-17.070	-16.467	-16.072	-15.777	-15.543	-15.348
	I	F''	13.188	13.189	13.190	9.488	9.488	9.487	9.488	9.488	9.489	9.490
2.314	I	F'	-15.182	-15.036	-14.907	-14.791	-14.686	-14.590	-14.501	-14.419	-14.343	-14.271
	I	F''	9.490	9.491	9.492	9.492	9.493	9.494	9.494	9.495	9.496	9.497
2.315	I	F'	-14.204	-14.140	-14.080	-14.023	-13.969	-13.918	-13.869	-13.821	-13.776	-13.733
	I	F''	9.497	9.498	9.499	9.499	9.500	9.501	9.501	9.502	9.503	9.503
2.316	I	F'	-13.691	-13.651	-13.613	-13.575	-13.539	-13.504	-13.471	-13.438	-13.406	-13.376
	I	F''	9.504	9.505	9.505	9.506	9.507	9.507	9.508	9.509	9.510	9.510
2.317	I	F'	-13.346	-13.317	-13.288	-13.261	-13.234	-13.208	-13.183	-13.158	-13.133	-13.110
	I	F''	9.511	9.512	9.512	9.513	9.514	9.514	9.515	9.516	9.516	9.517
2.318	I	F'	-13.087	-13.064	-13.042	-13.020	-12.999	-12.979	-12.958	-12.938	-12.919	-12.900
	I	F''	9.518	9.518	9.519	9.520	9.520	9.521	9.522	9.522	9.523	9.524
2.319	I	F'	-12.881	-12.863	-12.845	-12.827	-12.810	-12.792	-12.776	-12.759	-12.743	-12.727
	I	F''	9.525	9.525	9.526	9.527	9.527	9.528	9.529	9.529	9.530	9.531
2.320	I	F'	-12.712	-12.696	-12.681	-12.666	-12.651	-12.637	-12.623	-12.609	-12.595	-12.581
	I	F''	9.531	9.532	9.533	9.533	9.534	9.535	9.535	9.536	9.537	9.538
2.321	I	F'	-12.568	-12.555	-12.542	-12.529	-12.517	-12.504	-12.492	-12.480	-12.468	-12.456
	I	F''	9.538	9.539	9.540	9.540	9.541	9.542	9.542	9.543	9.544	9.544
2.322	I	F'	-12.444	-12.433	-12.422	-12.411	-12.400	-12.389	-12.378	-12.367	-12.357	-12.347
	I	F''	9.545	9.546	9.546	9.547	9.548	9.548	9.549	9.550	9.551	9.551
2.323	I	F'	-12.332	-12.326	-12.316	-12.306	-12.297	-12.287	-12.278	-12.268	-12.259	-12.250
	I	F''	9.552	9.553	9.553	9.554	9.555	9.555	9.556	9.557	9.557	9.558
2.324	I	F'	-12.241	-12.232	-12.223	-12.214	-12.205	-12.197	-12.188	-12.180	-12.172	-12.163
	I	F''	9.559	9.559	9.560	9.561	9.561	9.562	9.563	9.564	9.564	9.565
2.325	I	F'	-12.155	-12.147	-12.139	-12.131	-12.124	-12.116	-12.108	-12.101	-12.093	-12.086
	I	F''	9.566	9.566	9.567	9.568	9.568	9.569	9.570	9.570	9.571	9.572
2.326	I	F'	-12.079	-12.071	-12.064	-12.057	-12.050	-12.043	-12.036	-12.029	-12.023	-12.016
	I	F''	9.572	9.573	9.574	9.575	9.575	9.576	9.577	9.577	9.578	9.579
2.327	I	F'	-12.009	-12.003	-11.996	-11.990	-11.983	-11.977	-11.971	-11.964	-11.958	-11.952
	I	F''	9.579	9.580	9.581	9.581	9.582	9.583	9.583	9.584	9.585	9.586

ATOMIC SYMBOL = BA			ATOMIC NUMBER = 56		L ₂ ABSORPTION EDGE (2.20480 Å)		5.6230 KEV)					
I			0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.191	I	F'	-11.286	-11.296	-11.307	-11.317	-11.327	-11.338	-11.349	-11.359	-11.370	-11.381
	I	F''	-12.915	-12.916	-12.917	-12.918	-12.919	-12.921	-12.922	-12.923	-12.924	-12.925
2.192	I	F'	-11.391	-11.402	-11.413	-11.424	-11.436	-11.447	-11.458	-11.469	-11.481	-11.492
	I	F''	-12.926	-12.927	-12.928	-12.929	-12.931	-12.932	-12.933	-12.934	-12.935	-12.936
2.193	I	F'	-11.504	-11.516	-11.528	-11.540	-11.552	-11.564	-11.576	-11.588	-11.601	-11.613
	I	F''	-12.937	-12.938	-12.939	-12.941	-12.942	-12.943	-12.944	-12.945	-12.946	-12.947
2.194	I	F'	-11.626	-11.639	-11.651	-11.664	-11.677	-11.691	-11.704	-11.717	-11.731	-11.745
	I	F''	-12.948	-12.949	-12.951	-12.952	-12.953	-12.954	-12.955	-12.956	-12.957	-12.958
2.195	I	F'	-11.758	-11.772	-11.786	-11.800	-11.815	-11.829	-11.844	-11.859	-11.874	-11.889
	I	F''	-12.959	-12.961	-12.962	-12.963	-12.964	-12.965	-12.966	-12.967	-12.968	-12.969
2.196	I	F'	-11.904	-11.919	-11.935	-11.950	-11.966	-11.982	-11.999	-12.015	-12.032	-12.049
	I	F''	-12.971	-12.972	-12.973	-12.974	-12.975	-12.976	-12.977	-12.978	-12.979	-12.980
2.197	I	F'	-12.066	-12.083	-12.100	-12.118	-12.136	-12.154	-12.172	-12.191	-12.210	-12.229
	I	F''	-12.982	-12.983	-12.984	-12.985	-12.986	-12.987	-12.988	-12.989	-12.990	-12.991
2.198	I	F'	-12.248	-12.268	-12.288	-12.308	-12.328	-12.349	-12.370	-12.392	-12.414	-12.436
	I	F''	-12.993	-12.994	-12.995	-12.996	-12.997	-12.999	-13.000	-13.001	-13.002	-13.003
2.199	I	F'	-12.458	-12.481	-12.505	-12.528	-12.553	-12.577	-12.602	-12.628	-12.654	-12.680
	I	F''	-13.004	-13.005	-13.006	-13.007	-13.009	-13.010	-13.011	-13.012	-13.013	-13.014
2.200	I	F'	-12.707	-12.735	-12.763	-12.792	-12.821	-12.852	-12.882	-12.914	-12.946	-12.980
	I	F''	-13.015	-13.016	-13.018	-13.019	-13.020	-13.021	-13.022	-13.023	-13.024	-13.025
2.201	I	F'	-13.014	-13.049	-13.085	-13.122	-13.160	-13.199	-13.239	-13.281	-13.324	-13.369
	I	F''	-13.026	-13.028	-13.029	-13.030	-13.031	-13.032	-13.033	-13.034	-13.035	-13.037
2.202	I	F'	-13.416	-13.464	-13.514	-13.566	-13.620	-13.677	-13.737	-13.800	-13.866	-13.935
	I	F''	-13.038	-13.039	-13.040	-13.041	-13.042	-13.043	-13.044	-13.046	-13.047	-13.048
2.203	I	F'	-14.009	-14.088	-14.172	-14.262	-14.359	-14.465	-14.582	-14.710	-14.854	-15.018
	I	F''	-13.049	-13.050	-13.051	-13.052	-13.053	-13.054	-13.056	-13.057	-13.058	-13.059
2.204	I	F'	-15.207	-15.433	-15.712	-16.078	-16.611	-17.615	-18.778	-19.965	-21.290	-22.867
	I	F''	-13.060	-13.061	-13.062	-13.063	-13.065	-13.066	-13.067	-13.068	-13.069	-13.070
2.205	I	F'	-15.558	-15.315	-15.115	-14.945	-14.797	-14.666	-14.549	-14.443	-14.346	-14.257
	I	F''	-9.405	-9.406	-9.407	-9.408	-9.409	-9.410	-9.411	-9.412	-9.413	-9.414
2.206	I	F'	-14.174	-14.097	-14.026	-13.958	-13.895	-13.835	-13.778	-13.724	-13.672	-13.623
	I	F''	-9.412	-9.413	-9.414	-9.415	-9.416	-9.417	-9.418	-9.419	-9.420	-9.421
2.207	I	F'	-13.576	-13.531	-13.488	-13.446	-13.406	-13.368	-13.330	-13.295	-13.260	-13.226
	I	F''	-9.420	-9.420	-9.421	-9.422	-9.422	-9.423	-9.424	-9.425	-9.426	-9.427
2.208	I	F'	-13.194	-13.162	-13.132	-13.102	-13.073	-13.045	-13.017	-12.991	-12.965	-12.940
	I	F''	-9.427	-9.427	-9.428	-9.429	-9.430	-9.430	-9.431	-9.432	-9.432	-9.433
2.209	I	F'	-12.915	-12.891	-12.867	-12.844	-12.822	-12.800	-12.779	-12.758	-12.737	-12.717
	I	F''	-9.434	-9.435	-9.435	-9.436	-9.437	-9.437	-9.438	-9.439	-9.440	-9.440
2.210	I	F'	-12.697	-12.678	-12.659	-12.640	-12.622	-12.604	-12.587	-12.569	-12.552	-12.536
	I	F''	-9.441	-9.442	-9.442	-9.443	-9.444	-9.445	-9.445	-9.446	-9.447	-9.447
2.211	I	F'	-12.519	-12.503	-12.488	-12.472	-12.457	-12.442	-12.427	-12.412	-12.398	-12.384
	I	F''	-9.448	-9.449	-9.450	-9.450	-9.451	-9.452	-9.452	-9.453	-9.454	-9.455
2.212	I	F'	-12.370	-12.357	-12.343	-12.330	-12.317	-12.304	-12.291	-12.279	-12.266	-12.254
	I	F''	-9.455	-9.456	-9.457	-9.457	-9.458	-9.459	-9.460	-9.460	-9.461	-9.462
2.213	I	F'	-12.243	-12.231	-12.220	-12.208	-12.197	-12.186	-12.174	-12.164	-12.153	-12.142
	I	F''	-9.462	-9.463	-9.464	-9.464	-9.465	-9.466	-9.467	-9.467	-9.468	-9.469
2.214	I	F'	-12.132	-12.121	-12.111	-12.101	-12.091	-12.081	-12.071	-12.062	-12.052	-12.043
	I	F''	-9.469	-9.470	-9.471	-9.471	-9.472	-9.473	-9.474	-9.474	-9.475	-9.476
2.215	I	F'	-12.034	-12.024	-12.015	-12.006	-11.997	-11.989	-11.980	-11.971	-11.963	-11.955
	I	F''	-9.477	-9.477	-9.478	-9.479	-9.479	-9.480	-9.481	-9.482	-9.482	-9.483
2.216	I	F'	-11.946	-11.938	-11.930	-11.922	-11.914	-11.906	-11.898	-11.891	-11.883	-11.875
	I	F''	-9.484	-9.484	-9.485	-9.486	-9.487	-9.487	-9.488	-9.489	-9.489	-9.490
2.217	I	F'	-11.868	-11.861	-11.853	-11.846	-11.839	-11.832	-11.825	-11.818	-11.811	-11.804
	I	F''	-9.491	-9.492	-9.492	-9.493	-9.494	-9.494	-9.495	-9.496	-9.497	-9.497
2.218	I	F'	-11.797	-11.791	-11.784	-11.777	-11.771	-11.764	-11.758	-11.752	-11.746	-11.739
	I	F''	-9.498	-9.499	-9.499	-9.500	-9.501	-9.502	-9.502	-9.503	-9.504	-9.504

ATOMIC SYMBOL = LA		ATOMIC NUMBER = 57		L ₂ ABSORPTION EDGE (2.10530 Å; 5.8888 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.091	I F ⁺	-11.065	-11.075	-11.085	-11.094	-11.104	-11.115	-11.125	-11.135	-11.145	-11.155
	I F ⁺	12.717	12.718	12.720	12.721	12.722	12.723	12.724	12.725	12.726	12.727
2.092	I F ⁺	-11.166	-11.176	-11.187	-11.197	-11.208	-11.219	-11.230	-11.241	-11.252	-11.263
	I F ⁺	12.728	12.729	12.730	12.731	12.732	12.733	12.734	12.735	12.736	12.737
2.093	I F ⁺	-11.274	-11.285	-11.296	-11.308	-11.319	-11.331	-11.343	-11.354	-11.366	-11.378
	I F ⁺	12.738	12.739	12.740	12.741	12.743	12.744	12.745	12.746	12.747	12.748
2.094	I F ⁺	-11.390	-11.403	-11.415	-11.427	-11.440	-11.452	-11.465	-11.478	-11.491	-11.504
	I F ⁺	12.749	12.750	12.751	12.752	12.753	12.754	12.755	12.756	12.757	12.758
2.095	I F ⁺	-11.517	-11.530	-11.544	-11.557	-11.571	-11.585	-11.599	-11.613	-11.627	-11.642
	I F ⁺	12.759	12.760	12.761	12.762	12.763	12.764	12.766	12.767	12.768	12.769
2.096	I F ⁺	-11.656	-11.671	-11.686	-11.701	-11.716	-11.731	-11.747	-11.763	-11.779	-11.795
	I F ⁺	12.770	12.771	12.772	12.773	12.774	12.775	12.776	12.777	12.778	12.779
2.097	I F ⁺	-11.811	-11.827	-11.844	-11.861	-11.878	-11.895	-11.913	-11.931	-11.949	-11.967
	I F ⁺	12.780	12.781	12.782	12.783	12.784	12.785	12.786	12.787	12.789	12.790
2.098	I F ⁺	-11.985	-12.004	-12.023	-12.042	-12.062	-12.082	-12.102	-12.122	-12.143	-12.164
	I F ⁺	12.791	12.792	12.793	12.794	12.795	12.796	12.797	12.798	12.799	12.800
2.099	I F ⁺	-12.186	-12.207	-12.230	-12.252	-12.275	-12.298	-12.322	-12.347	-12.371	-12.396
	I F ⁺	12.801	12.802	12.803	12.804	12.805	12.806	12.807	12.808	12.809	12.811
2.100	I F ⁺	-12.422	-12.448	-12.475	-12.502	-12.530	-12.559	-12.588	-12.618	-12.649	-12.680
	I F ⁺	12.812	12.813	12.814	12.815	12.816	12.817	12.818	12.819	12.820	12.821
2.101	I F ⁺	-12.712	-12.745	-12.779	-12.814	-12.850	-12.887	-12.925	-12.966	-13.006	-13.048
	I F ⁺	12.822	12.823	12.824	12.825	12.826	12.827	12.828	12.829	12.830	12.831
2.102	I F ⁺	-13.092	-13.137	-13.184	-13.233	-13.284	-13.337	-13.392	-13.450	-13.512	-13.576
	I F ⁺	12.833	12.834	12.835	12.836	12.837	12.838	12.839	12.840	12.841	12.842
2.103	I F ⁺	-13.644	-13.717	-13.794	-13.876	-13.965	-14.061	-14.166	-14.281	-14.408	-14.551
	I F ⁺	12.843	12.844	12.845	12.846	12.847	12.848	12.849	12.850	12.851	12.852
2.104	I F ⁺	-14.715	-14.906	-15.135	-15.421	-15.805	-16.389	-17.660	-17.551	-16.349	-15.783
	I F ⁺	12.853	12.855	12.856	12.857	12.858	12.859	12.860	9.322	9.323	9.323
2.105	I F ⁺	-15.409	-15.130	-14.908	-14.723	-14.564	-14.426	-14.303	-14.193	-14.093	-14.001
	I F ⁺	9.324	9.325	9.325	9.326	9.327	9.328	9.328	9.329	9.330	9.331
2.106	I F ⁺	-13.916	-13.838	-13.765	-13.697	-13.633	-13.572	-13.515	-13.461	-13.409	-13.360
	I F ⁺	9.331	9.332	9.333	9.334	9.334	9.335	9.336	9.337	9.337	9.338
2.107	I F ⁺	-13.313	-13.268	-13.225	-13.183	-13.144	-13.105	-13.068	-13.033	-12.998	-12.965
	I F ⁺	9.339	9.340	9.340	9.341	9.342	9.343	9.343	9.344	9.345	9.345
2.108	I F ⁺	-12.933	-12.902	-12.871	-12.841	-12.814	-12.786	-12.759	-12.733	-12.707	-12.682
	I F ⁺	9.346	9.347	9.348	9.348	9.349	9.350	9.351	9.351	9.352	9.353
2.109	I F ⁺	-12.658	-12.634	-12.611	-12.588	-12.566	-12.545	-12.524	-12.503	-12.483	-12.463
	I F ⁺	9.354	9.354	9.355	9.356	9.357	9.357	9.358	9.359	9.360	9.360
2.110	I F ⁺	-12.444	-12.425	-12.406	-12.388	-12.370	-12.352	-12.335	-12.318	-12.302	-12.285
	I F ⁺	9.361	9.362	9.363	9.363	9.364	9.364	9.365	9.366	9.367	9.368
2.111	I F ⁺	-12.269	-12.253	-12.238	-12.223	-12.208	-12.193	-12.179	-12.164	-12.150	-12.137
	I F ⁺	9.368	9.369	9.370	9.371	9.371	9.372	9.372	9.373	9.374	9.375
2.112	I F ⁺	-12.123	-12.110	-12.097	-12.084	-12.071	-12.058	-12.046	-12.034	-12.022	-12.010
	I F ⁺	9.376	9.377	9.377	9.378	9.379	9.380	9.381	9.381	9.382	9.383
2.113	I F ⁺	-11.998	-11.987	-11.975	-11.964	-11.953	-11.942	-11.931	-11.920	-11.910	-11.900
	I F ⁺	9.383	9.384	9.385	9.386	9.386	9.387	9.388	9.389	9.389	9.390
2.114	I F ⁺	-11.889	-11.879	-11.869	-11.859	-11.850	-11.840	-11.830	-11.821	-11.812	-11.803
	I F ⁺	9.391	9.391	9.392	9.393	9.394	9.394	9.395	9.396	9.397	9.397
2.115	I F ⁺	-11.794	-11.785	-11.776	-11.767	-11.758	-11.750	-11.741	-11.733	-11.725	-11.717
	I F ⁺	9.398	9.399	9.400	9.400	9.401	9.402	9.403	9.403	9.404	9.405
2.116	I F ⁺	-11.708	-11.700	-11.692	-11.685	-11.677	-11.669	-11.662	-11.654	-11.647	-11.639
	I F ⁺	9.406	9.406	9.407	9.408	9.409	9.409	9.410	9.411	9.412	9.412
2.117	I F ⁺	-11.632	-11.625	-11.618	-11.611	-11.604	-11.597	-11.590	-11.583	-11.576	-11.570
	I F ⁺	9.413	9.414	9.415	9.415	9.416	9.417	9.417	9.418	9.419	9.420
2.118	I F ⁺	-11.563	-11.557	-11.550	-11.544	-11.538	-11.531	-11.525	-11.519	-11.513	-11.507
	I F ⁺	9.420	9.421	9.422	9.423	9.423	9.424	9.425	9.426	9.426	9.427

ATOMIC SYMBOL = CE		ATOMIC NUMBER = 58		L ₂ ABSORPTION EDGE (2.01240 Å; 6.1606 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.998	I F ⁺	-10.914	-10.924	-10.934	-10.944	-10.954	-10.964	-10.975	-10.985	-10.996	-11.006
	I F ⁺	12.638	12.639	12.640	12.641	12.642	12.644	12.645	12.646	12.647	12.648
1.999	I F ⁺	-11.017	-11.027	-11.038	-11.049	-11.060	-11.071	-11.082	-11.093	-11.104	-11.116
	I F ⁺	12.649	12.650	12.651	12.652	12.653	12.654	12.655	12.656	12.657	12.659
2.000	I F ⁺	-11.127	-11.139	-11.150	-11.162	-11.174	-11.185	-11.197	-11.210	-11.222	-11.234
	I F ⁺	12.660	12.661	12.662	12.663	12.664	12.665	12.666	12.667	12.668	12.669
2.001	I F ⁺	-11.246	-11.259	-11.272	-11.284	-11.297	-11.310	-11.323	-11.336	-11.350	-11.363
	I F ⁺	12.670	12.671	12.673	12.674	12.675	12.676	12.677	12.678	12.679	12.680
2.002	I F ⁺	-11.377	-11.391	-11.404	-11.418	-11.433	-11.447	-11.461	-11.476	-11.491	-11.506
	I F ⁺	12.681	12.682	12.683	12.684	12.685	12.687	12.688	12.689	12.690	12.691
2.003	I F ⁺	-11.521	-11.536	-11.551	-11.567	-11.583	-11.599	-11.615	-11.631	-11.648	-11.664
	I F ⁺	12.692	12.693	12.694	12.695	12.696	12.697	12.698	12.699	12.701	12.702
2.004	I F ⁺	-11.681	-11.698	-11.716	-11.733	-11.751	-11.769	-11.788	-11.806	-11.825	-11.844
	I F ⁺	12.703	12.704	12.705	12.706	12.707	12.708	12.709	12.710	12.711	12.712
2.005	I F ⁺	-11.864	-11.884	-11.904	-11.924	-11.944	-11.965	-11.987	-12.008	-12.030	-12.053
	I F ⁺	12.713	12.714	12.716	12.717	12.718	12.719	12.720	12.721	12.722	12.723
2.006	I F ⁺	-12.076	-12.099	-12.123	-12.147	-12.171	-12.196	-12.222	-12.248	-12.275	-12.302
	I F ⁺	12.724	12.725	12.726	12.727	12.728	12.730	12.731	12.732	12.733	12.734
2.007	I F ⁺	-12.330	-12.358	-12.387	-12.417	-12.447	-12.479	-12.511	-12.543	-12.577	-12.612
	I F ⁺	12.735	12.736	12.737	12.738	12.739	12.740	12.741	12.743	12.744	12.745
2.008	I F ⁺	-12.648	-12.685	-12.723	-12.762	-12.802	-12.844	-12.888	-12.933	-12.979	-13.028
	I F ⁺	12.746	12.747	12.748	12.749	12.750	12.751	12.752	12.753	12.754	12.755
2.009	I F ⁺	-13.079	-13.132	-13.187	-13.245	-13.307	-13.371	-13.439	-13.512	-13.589	-13.672
	I F ⁺	12.757	12.758	12.759	12.760	12.761	12.762	12.763	12.764	12.765	12.766
2.010	I F ⁺	-13.761	-13.857	-13.962	-14.078	-14.206	-14.351	-14.517	-14.711	-14.945	-15.241
	I F ⁺	12.767	12.768	12.769	12.771	12.772	12.773	12.774	12.775	12.776	12.777
2.011	I F ⁺	-15.642	-16.272	-17.844	-17.012	-16.002	-15.483	-15.131	-14.865	-14.651	-14.472
	I F ⁺	12.778	12.779	12.780	9.274	9.275	9.275	9.276	9.277	9.277	9.278
2.012	I F ⁺	-14.318	-14.184	-14.064	-13.957	-13.859	-13.769	-13.686	-13.610	-13.538	-13.471
	I F ⁺	9.279	9.280	9.281	9.281	9.282	9.283	9.284	9.284	9.285	9.286
2.013	I F ⁺	-13.408	-13.348	-13.292	-13.239	-13.188	-13.140	-13.093	-13.049	-13.007	-12.966
	I F ⁺	9.287	9.288	9.288	9.289	9.290	9.291	9.291	9.292	9.293	9.294
2.014	I F ⁺	-12.927	-12.889	-12.853	-12.818	-12.784	-12.751	-12.719	-12.688	-12.658	-12.629

ATOMIC SYMBOL = PR ATOMIC NUMBER = 59 L₂ ABSORPTION EDGE (1.92550 Å; 6.4387 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.912	I	F'	-10.756	-10.766	-10.776	-10.786	-10.796	-10.807	-10.817	-10.828	-10.838	-10.849
	I	F''	12.559	12.560	12.561	12.562	12.563	12.564	12.565	12.566	12.568	12.569
1.913	I	F'	-10.860	-10.871	-10.881	-10.892	-10.904	-10.915	-10.926	-10.937	-10.949	-10.960
	I	F''	12.570	12.571	12.572	12.573	12.574	12.576	12.577	12.578	12.579	12.580
1.914	I	F'	-10.972	-10.984	-10.995	-11.007	-11.019	-11.031	-11.044	-11.056	-11.068	-11.081
	I	F''	12.581	12.582	12.584	12.585	12.586	12.587	12.588	12.589	12.590	12.591
1.915	I	F'	-11.094	-11.106	-11.119	-11.132	-11.145	-11.159	-11.172	-11.185	-11.199	-11.213
	I	F''	12.593	12.594	12.595	12.596	12.597	12.598	12.599	12.601	12.602	12.603
1.916	I	F'	-11.227	-11.241	-11.255	-11.269	-11.284	-11.298	-11.313	-11.328	-11.343	-11.359
	I	F''	12.604	12.605	12.606	12.607	12.609	12.610	12.611	12.612	12.613	12.614
1.917	I	F'	-11.374	-11.390	-11.405	-11.422	-11.438	-11.454	-11.471	-11.488	-11.505	-11.522
	I	F''	12.615	12.617	12.618	12.619	12.620	12.621	12.622	12.623	12.625	12.626
1.918	I	F'	-11.539	-11.557	-11.575	-11.593	-11.612	-11.630	-11.649	-11.668	-11.688	-11.708
	I	F''	12.627	12.628	12.629	12.630	12.631	12.632	12.634	12.635	12.636	12.637
1.919	I	F'	-11.728	-11.748	-11.769	-11.790	-11.812	-11.834	-11.856	-11.878	-11.901	-11.925
	I	F''	12.638	12.639	12.640	12.642	12.643	12.644	12.645	12.646	12.647	12.648
1.920	I	F'	-11.949	-11.973	-11.998	-12.023	-12.049	-12.075	-12.102	-12.129	-12.157	-12.186
	I	F''	12.650	12.651	12.652	12.653	12.654	12.655	12.656	12.658	12.659	12.660
1.921	I	F'	-12.215	-12.245	-12.276	-12.308	-12.340	-12.374	-12.408	-12.443	-12.479	-12.517
	I	F''	12.661	12.662	12.663	12.664	12.666	12.667	12.668	12.669	12.670	12.671
1.922	I	F'	-12.555	-12.595	-12.636	-12.679	-12.723	-12.769	-12.816	-12.866	-12.918	-12.972
	I	F''	12.672	12.674	12.675	12.676	12.677	12.678	12.679	12.680	12.682	12.683
1.923	I	F'	-13.029	-13.088	-13.151	-13.217	-13.287	-13.362	-13.442	-13.528	-13.620	-13.721
	I	F''	12.684	12.685	12.686	12.687	12.688	12.689	12.691	12.692	12.693	12.694
1.924	I	F'	-13.831	-13.953	-14.089	-14.244	-14.423	-14.636	-14.898	-15.241	-15.736	-16.443
	I	F''	12.695	12.696	12.697	12.699	12.700	12.701	12.702	12.703	12.704	12.705
1.925	I	F'	-16.148	-16.175	-15.503	-15.089	-14.789	-14.554	-14.361	-14.197	-14.054	-13.928
	I	F''	9.208	9.209	9.209	9.210	9.211	9.212	9.213	9.213	9.214	9.215
1.926	I	F'	-13.816	-13.714	-13.621	-13.535	-13.456	-13.382	-13.313	-13.248	-13.187	-13.130
	I	F''	9.216	9.217	9.217	9.218	9.219	9.220	9.221	9.221	9.222	9.223
1.927	I	F'	-13.075	-13.024	-12.974	-12.927	-12.882	-12.839	-12.797	-12.758	-12.719	-12.683
	I	F''	9.224	9.225	9.225	9.226	9.227	9.228	9.229	9.229	9.230	9.231
1.928	I	F'	-12.667	-12.613	-12.579	-12.547	-12.516	-12.486	-12.457	-12.428	-12.400	-12.374
	I	F''	9.232	9.233	9.233	9.234	9.235	9.236	9.237	9.238	9.238	9.239
1.929	I	F'	-12.367	-12.322	-12.297	-12.273	-12.249	-12.226	-12.204	-12.182	-12.160	-12.139
	I	F''	9.240	9.241	9.242	9.242	9.243	9.244	9.245	9.246	9.246	9.247
1.930	I	F'	-12.119	-12.099	-12.079	-12.060	-12.041	-12.022	-12.004	-11.987	-11.969	-11.952
	I	F''	9.248	9.249	9.250	9.250	9.251	9.252	9.253	9.254	9.254	9.255
1.931	I	F'	-11.935	-11.919	-11.902	-11.887	-11.871	-11.856	-11.841	-11.826	-11.811	-11.797
	I	F''	9.256	9.257	9.258	9.258	9.259	9.260	9.261	9.262	9.262	9.263
1.932	I	F'	-11.783	-11.769	-11.755	-11.742	-11.728	-11.715	-11.702	-11.690	-11.677	-11.665
	I	F''	9.264	9.265	9.266	9.267	9.267	9.268	9.269	9.270	9.271	9.271
1.933	I	F'	-11.653	-11.641	-11.629	-11.618	-11.606	-11.595	-11.584	-11.573	-11.562	-11.551
	I	F''	9.272	9.273	9.274	9.275	9.275	9.276	9.277	9.278	9.279	9.279
1.934	I	F'	-11.541	-11.530	-11.520	-11.510	-11.500	-11.490	-11.480	-11.471	-11.461	-11.452
	I	F''	9.280	9.281	9.282	9.283	9.283	9.284	9.285	9.286	9.287	9.287
1.935	I	F'	-11.442	-11.433	-11.424	-11.415	-11.406	-11.397	-11.389	-11.380	-11.372	-11.363
	I	F''	9.288	9.289	9.290	9.291	9.292	9.292	9.293	9.294	9.295	9.296
1.936	I	F'	-11.355	-11.347	-11.339	-11.331	-11.323	-11.315	-11.307	-11.300	-11.292	-11.284
	I	F''	9.296	9.297	9.298	9.299	9.300	9.300	9.301	9.302	9.303	9.304
1.937	I	F'	-11.277	-11.270	-11.262	-11.255	-11.248	-11.241	-11.234	-11.227	-11.220	-11.214
	I	F''	9.304	9.305	9.306	9.307	9.308	9.308	9.309	9.310	9.311	9.312
1.938	I	F'	-11.207	-11.200	-11.194	-11.187	-11.181	-11.174	-11.168	-11.162	-11.156	-11.149
	I	F''	9.313	9.313	9.314	9.315	9.316	9.317	9.317	9.318	9.319	9.320
1.939	I	F'	-11.143	-11.137	-11.131	-11.126	-11.120	-11.114	-11.108	-11.102	-11.097	-11.091
	I	F''	9.321	9.321	9.322	9.323	9.324	9.325	9.325	9.326	9.327	9.328

ATOMIC SYMBOL = ND ATOMIC NUMBER = 60 L₂ ABSORPTION EDGE (1.88400 Å; 6.5805 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.870	I	F'	-10.546	-10.544	-10.542	-10.539	-10.537	-10.535	-10.533	-10.530	-10.528	-10.526
	I	F''	9.360	9.361	9.361	9.362	9.363	9.364	9.365	9.366	9.366	9.367
1.871	I	F'	-10.524	-10.522	-10.519	-10.517	-10.515	-10.513	-10.511	-10.509	-10.507	-10.505
	I	F''	9.368	9.369	9.370	9.371	9.371	9.372	9.373	9.374	9.375	9.376
1.872	I	F'	-10.503	-10.501	-10.499	-10.497	-10.495	-10.493	-10.491	-10.489	-10.487	-10.485
	I	F''	9.376	9.377	9.378	9.379	9.380	9.381	9.382	9.382	9.383	9.384
1.873	I	F'	-10.484	-10.482	-10.480	-10.478	-10.476	-10.474	-10.473	-10.471	-10.469	-10.467
	I	F''	9.385	9.386	9.387	9.387	9.388	9.389	9.390	9.391	9.392	9.392
1.874	I	F'	-10.466	-10.464	-10.462	-10.461	-10.459	-10.457	-10.456	-10.454	-10.453	-10.451
	I	F''	9.393	9.394	9.395	9.396	9.397	9.398	9.398	9.399	9.400	9.401
1.875	I	F'	-10.449	-10.448	-10.446	-10.445	-10.443	-10.442	-10.440	-10.439	-10.437	-10.436
	I	F''	9.402	9.403	9.403	9.404	9.405	9.406	9.407	9.408	9.408	9.409
1.876	I	F'	-10.435	-10.433	-10.432	-10.430	-10.429	-10.428	-10.426	-10.425	-10.424	-10.422
	I	F''	9.410	9.411	9.412	9.413	9.414	9.414	9.415	9.416	9.417	9.418
1.877	I	F'	-10.421	-10.420	-10.418	-10.417	-10.416	-10.415	-10.413	-10.412	-10.411	-10.410
	I	F''	9.419	9.419	9.420	9.421	9.422	9.423	9.424	9.425	9.425	9.426
1.878	I	F'	-10.409	-10.407	-10.406	-10.405	-10.404	-10.403	-10.402	-10.401	-10.399	-10.398
	I	F''	9.427	9.428	9.429	9.430	9.430	9.431	9.432	9.433	9.434	9.435
1.879	I	F'	-10.397	-10.396	-10.395	-10.394	-10.393	-10.392	-10.391	-10.390	-10.389	-10.388
	I	F''	9.435	9.436	9.437	9.438	9.439	9.440	9.441	9.441	9.442	9.443
1.880	I	F'	-10.387	-10.386	-10.385	-10.384	-10.383	-10.383	-10.382	-10.381	-10.380	-10.379
	I	F''	9.444	9.445	9.446	9.446	9.447	9.448	9.449	9.450	9.451	9.451
1.881	I	F'	-10.378	-10.377	-10.376	-10.376	-10.375	-10.374	-10.373	-10.372	-10.372	-10.371
	I	F''	9.452	9.453	9.454	9.455	9.456	9.457	9.457	9.458	9.459	9.460
1.882	I	F'	-10.370	-10.369	-10.369	-10.368	-10.367	-10.366	-10.366	-10.365	-10.364	-10.364
	I	F''	9.461	9.462	9.462	9.463	9.464	9.465	9.466	9.467	9.468	9.468
1.883	I	F'	-10.363	-10.362	-10.362	-10.361	-10.361	-10.360	-10.359	-10.359	-10.358	-10.358
	I	F''	9.469	9.470	9.471	9.472	9.473	9.473	9.474	9.475	9.476	9.477
1.884	I	F'	-10.357	-10.356	-10.356	-10.355	-10.355	-10.354	-10.354	-10.353	-10.353	-10.352
	I	F''	9.478	9.478	9.479	9.480	9.481	9.482	9.483	9.484	9.484	9.485
1.885	I	F'	-10.352	-10.351	-10.351	-10.350	-10.350	-10.350	-10.349	-10.349	-10.348	-10.348
	I	F''	9.486	9.487	9.488	9.489	9.489	9.490	9.491	9.492	9.493	9.494
1.886	I	F'	-10.348	-10.347	-10.347	-10.346	-10.346	-10.346	-10.345	-10.345	-10.345	-10.344
	I	F''	9.495	9.495	9.496	9.497	9.498	9.499	9.500	9.500	9.501	9.502
1.887	I	F'	-10.344	-10.344	-10.343	-10.343	-10.343	-10.343	-10.342	-10.342	-10.342	-10.342
	I	F''	9.503	9.504	9.505	9.506	9.506	9.507	9.508	9.509	9.510	9.511
1.888	I	F'	-10.341	-10.341	-10.341	-10.341	-10.341	-10.340	-10.340	-10.340	-10.340	-10.340
	I	F''	9.511	9.512	9.513	9.514	9.515	9.516	9.516	9.517	9.518	9.519
1.889	I	F'	-10.340	-10.339	-10.339	-10.339	-10.339	-10.339	-10.339	-10.339	-10.339	-10.339
	I	F''	9.520	9.521	9.522	9.522	9.523	9.524	9.525	9.526	9.527	9.527
1.890	I	F'	-10.339	-10.338	-10.338	-10.338	-10.338	-10.338	-10.338	-10.338	-10.338	-10.338
	I	F''	9.528	9.529	9.530	9.531	9.532	9.533	9.533	9.534	9.535	9.536
1.891	I	F'	-10.338	-10.338	-10.338	-10.338	-10.338	-10.338	-10.338	-10.338	-10.339	-10.339
	I	F''	9.537	9.538	9.538	9.539	9.540	9.541	9.542	9.543	9.544	9.544
1.892	I	F'	-10.339	-10.339	-10.339	-10.339	-10.339	-10.339	-10.339	-10.339	-10.340	-10.340
	I	F''	9.545	9.546	9.547	9.548	9.549	9.549	9.550	9.551	9.552	9.553
1.893	I	F'	-10.340	-10.340	-10.340	-10.340	-10.340	-10.341	-10.341	-10.341	-10.341	-10.341
	I	F''	9.554	9.555	9.555	9.556	9.557	9.558	9.559	9.560	9.560	9.561
1.894	I	F'	-10.342	-10.342	-10.342	-10.342	-10.343	-10.343	-10.343	-10.343	-10.344	-10.344
	I	F''	9.562	9.563	9.564	9.565	9.566	9.566	9.567	9.568	9.569	9.570
1.895	I	F'	-10.344	-10.344	-10.345	-10.345	-10.345	-10.346	-10.346	-10.346	-10.347	-10.347
	I	F''	9.571	9.571	9.572	9.573	9.574	9.575	9.576	9.577	9.577	9.578
1.896	I	F'	-10.347	-10.348	-10.348	-10.348	-10.349	-10.349	-10.350	-10.350	-10.350	-10.351
	I	F''	9.579	9.580	9.581	9.582	9.582	9.583	9.584	9.585	9.586	9.587
1.897	I	F'	-10.351	-10.352	-10.352	-10.353	-10.353	-10.353	-10.354	-10.354	-10.355	-10.355
	I	F''	9.588	9.588	9.589	9.590	9.591	9.592	9.593	9.593	9.594	9.595

ATOMIC SYMBOL = PM		ATOMIC NUMBER = 61		L ₂ ABSORPTION EDGE (1.76760 Å; 7.0138 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.754	I F'	-10.331	-10.340	-10.350	-10.360	-10.370	-10.379	-10.389	-10.399	-10.410	-10.420
	I F"	12.450	12.452	12.453	12.455	12.456	12.457	12.459	12.460	12.461	12.463
1.755	I F'	-10.430	-10.440	-10.451	-10.461	-10.472	-10.482	-10.493	-10.504	-10.514	-10.525
	I F"	12.464	12.465	12.467	12.468	12.469	12.471	12.472	12.474	12.475	12.476
1.756	I F'	-10.536	-10.547	-10.559	-10.570	-10.581	-10.593	-10.604	-10.616	-10.628	-10.639
	I F"	12.478	12.479	12.480	12.482	12.483	12.484	12.486	12.487	12.488	12.490
1.757	I F'	-10.651	-10.663	-10.675	-10.688	-10.700	-10.712	-10.725	-10.737	-10.750	-10.763
	I F"	12.491	12.492	12.494	12.495	12.497	12.498	12.499	12.501	12.502	12.503
1.758	I F'	-10.776	-10.789	-10.802	-10.816	-10.829	-10.843	-10.857	-10.870	-10.884	-10.899
	I F"	12.505	12.506	12.507	12.509	12.510	12.512	12.513	12.514	12.516	12.517
1.759	I F'	-10.913	-10.927	-10.942	-10.957	-10.972	-10.987	-11.002	-11.017	-11.033	-11.049
	I F"	12.518	12.520	12.521	12.522	12.524	12.525	12.526	12.528	12.529	12.531
1.760	I F'	-11.065	-11.081	-11.097	-11.113	-11.130	-11.147	-11.164	-11.182	-11.199	-11.217
	I F"	12.532	12.533	12.535	12.536	12.537	12.539	12.540	12.541	12.543	12.544
1.761	I F'	-11.235	-11.253	-11.272	-11.291	-11.310	-11.329	-11.349	-11.369	-11.389	-11.409
	I F"	12.546	12.547	12.548	12.550	12.551	12.552	12.554	12.555	12.556	12.558
1.762	I F'	-11.430	-11.451	-11.473	-11.495	-11.517	-11.540	-11.566	-11.586	-11.610	-11.634
	I F"	12.559	12.561	12.562	12.563	12.565	12.566	12.567	12.569	12.570	12.571
1.763	I F'	-11.659	-11.685	-11.710	-11.737	-11.764	-11.791	-11.819	-11.848	-11.877	-11.907
	I F"	12.573	12.574	12.576	12.577	12.578	12.580	12.581	12.582	12.584	12.585
1.764	I F'	-11.938	-11.969	-12.002	-12.035	-12.069	-12.104	-12.140	-12.177	-12.215	-12.255
	I F"	12.586	12.588	12.589	12.591	12.592	12.593	12.595	12.596	12.597	12.599
1.765	I F'	-12.295	-12.338	-12.381	-12.426	-12.473	-12.522	-12.573	-12.626	-12.681	-12.740
	I F"	12.600	12.601	12.603	12.604	12.606	12.607	12.608	12.610	12.612	12.614
1.766	I F'	-12.801	-12.866	-12.934	-13.006	-13.083	-13.166	-13.254	-13.350	-13.454	-13.568
	I F"	12.614	12.615	12.617	12.618	12.619	12.621	12.622	12.623	12.625	12.626
1.767	I F'	-13.695	-13.837	-13.999	-14.187	-14.412	-14.692	-15.064	-15.619	-16.745	-17.120
	I F"	12.627	12.629	12.630	12.632	12.633	12.634	12.636	12.637	12.638	9.089
1.768	I F'	-15.737	-15.137	-14.748	-14.461	-14.233	-14.044	-13.883	-13.742	-13.618	-13.506
	I F"	9.090	9.091	9.092	9.093	9.093	9.094	9.095	9.096	9.097	9.098
1.769	I F'	-13.404	-13.312	-13.226	-13.147	-13.074	-13.005	-12.940	-12.879	-12.822	-12.767
	I F"	9.099	9.099	9.100	9.101	9.102	9.103	9.104	9.105	9.106	9.106
1.770	I F'	-12.715	-12.665	-12.618	-12.573	-12.530	-12.488	-12.448	-12.410	-12.373	-12.337
	I F"	9.107	9.108	9.109	9.110	9.111	9.112	9.113	9.113	9.114	9.115
1.771	I F'	-12.302	-12.269	-12.237	-12.205	-12.175	-12.145	-12.117	-12.089	-12.062	-12.035
	I F"	9.116	9.117	9.118	9.119	9.120	9.121	9.121	9.122	9.123	9.124
1.772	I F'	-12.010	-11.985	-11.960	-11.937	-11.914	-11.891	-11.869	-11.847	-11.826	-11.805
	I F"	9.125	9.126	9.127	9.127	9.128	9.129	9.130	9.131	9.132	9.133
1.773	I F'	-11.785	-11.765	-11.746	-11.727	-11.708	-11.690	-11.672	-11.654	-11.637	-11.620
	I F"	9.133	9.134	9.135	9.136	9.137	9.138	9.139	9.140	9.140	9.141
1.774	I F'	-11.604	-11.587	-11.571	-11.556	-11.540	-11.525	-11.510	-11.495	-11.481	-11.467
	I F"	9.142	9.143	9.144	9.145	9.146	9.147	9.147	9.148	9.149	9.150
1.775	I F'	-11.453	-11.439	-11.425	-11.412	-11.399	-11.386	-11.373	-11.361	-11.348	-11.336
	I F"	9.151	9.152	9.153	9.154	9.155	9.156	9.157	9.158	9.159	9.159
1.776	I F'	-11.324	-11.312	-11.300	-11.289	-11.278	-11.266	-11.255	-11.244	-11.234	-11.223
	I F"	9.160	9.161	9.161	9.162	9.163	9.164	9.165	9.166	9.167	9.168
1.777	I F'	-11.212	-11.202	-11.192	-11.182	-11.172	-11.162	-11.152	-11.143	-11.133	-11.124
	I F"	9.168	9.169	9.170	9.171	9.172	9.173	9.174	9.175	9.175	9.176
1.778	I F'	-11.115	-11.105	-11.096	-11.087	-11.079	-11.070	-11.061	-11.053	-11.044	-11.036
	I F"	9.177	9.178	9.179	9.180	9.181	9.181	9.182	9.183	9.184	9.185
1.779	I F'	-11.028	-11.020	-11.011	-11.003	-10.996	-10.988	-10.980	-10.972	-10.965	-10.957
	I F"	9.186	9.187	9.188	9.188	9.189	9.190	9.191	9.192	9.193	9.194
1.780	I F'	-10.950	-10.943	-10.935	-10.928	-10.921	-10.914	-10.907	-10.900	-10.894	-10.887
	I F"	9.195	9.195	9.196	9.197	9.198	9.199	9.200	9.201	9.202	9.202
1.781	I F'	-10.880	-10.874	-10.867	-10.861	-10.854	-10.848	-10.841	-10.835	-10.829	-10.823
	I F"	9.203	9.204	9.205	9.206	9.207	9.208	9.209	9.209	9.210	9.211

ATOMIC SYMBOL = SM		ATOMIC NUMBER = 62		L ₂ ABSORPTION EDGE (1.69530 Å; 7.3129 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.681	I F'	-10.111	-10.120	-10.129	-10.139	-10.148	-10.157	-10.167	-10.176	-10.186	-10.196
	I F''	12.348	12.349	12.351	12.352	12.353	12.355	12.356	12.358	12.359	12.361
1.682	I F'	-10.205	-10.215	-10.225	-10.235	-10.245	-10.255	-10.265	-10.275	-10.285	-10.295
	I F''	12.362	12.363	12.365	12.366	12.368	12.369	12.370	12.372	12.373	12.375
1.683	I F'	-10.306	-10.316	-10.327	-10.337	-10.348	-10.359	-10.370	-10.380	-10.391	-10.403
	I F''	12.376	12.377	12.379	12.380	12.382	12.383	12.384	12.386	12.387	12.389
1.684	I F'	-10.414	-10.425	-10.436	-10.448	-10.459	-10.471	-10.483	-10.494	-10.506	-10.518
	I F''	12.390	12.392	12.393	12.394	12.396	12.397	12.399	12.400	12.401	12.403
1.685	I F'	-10.530	-10.543	-10.555	-10.567	-10.580	-10.593	-10.605	-10.618	-10.631	-10.644
	I F''	12.404	12.406	12.407	12.408	12.410	12.411	12.413	12.414	12.416	12.417
1.686	I F'	-10.658	-10.671	-10.685	-10.698	-10.712	-10.726	-10.740	-10.754	-10.768	-10.783
	I F''	12.418	12.420	12.421	12.423	12.424	12.425	12.427	12.428	12.430	12.431
1.687	I F'	-10.798	-10.812	-10.827	-10.842	-10.858	-10.873	-10.889	-10.905	-10.921	-10.937
	I F''	12.433	12.434	12.435	12.437	12.438	12.440	12.441	12.442	12.444	12.445
1.688	I F'	-10.953	-10.970	-10.987	-11.004	-11.021	-11.038	-11.056	-11.074	-11.092	-11.111
	I F''	12.447	12.448	12.450	12.451	12.452	12.454	12.455	12.457	12.458	12.459
1.689	I F'	-11.129	-11.148	-11.167	-11.187	-11.207	-11.227	-11.247	-11.268	-11.289	-11.310
	I F''	12.461	12.462	12.464	12.465	12.467	12.468	12.469	12.471	12.472	12.474
1.690	I F'	-11.332	-11.354	-11.377	-11.400	-11.423	-11.447	-11.471	-11.495	-11.521	-11.546
	I F''	12.475	12.477	12.478	12.479	12.481	12.482	12.484	12.485	12.486	12.488
1.691	I F'	-11.572	-11.599	-11.626	-11.654	-11.683	-11.712	-11.741	-11.772	-11.803	-11.835
	I F''	12.489	12.491	12.492	12.494	12.495	12.496	12.498	12.499	12.501	12.502
1.692	I F'	-11.868	-11.902	-11.937	-11.973	-12.010	-12.047	-12.087	-12.127	-12.169	-12.212
	I F''	12.504	12.505	12.506	12.508	12.509	12.511	12.512	12.514	12.515	12.516
1.693	I F'	-12.257	-12.304	-12.352	-12.403	-12.455	-12.510	-12.568	-12.629	-12.693	-12.760
	I F''	12.518	12.519	12.521	12.522	12.524	12.525	12.526	12.528	12.529	12.531
1.694	I F'	-12.832	-12.908	-12.990	-13.077	-13.172	-13.275	-13.387	-13.512	-13.653	-13.812
	I F''	12.532	12.534	12.535	12.536	12.538	12.539	12.541	12.542	12.544	12.545
1.695	I F'	-13.997	-14.218	-14.492	-14.853	-15.386	-16.225	-17.147	-18.614	-14.991	-14.595
	I F''	12.546	12.548	12.549	12.551	12.552	12.554	9.023	9.024	9.025	9.025
1.696	I F'	-14.303	-14.073	-13.883	-13.720	-13.579	-13.454	-13.342	-13.241	-13.148	-13.063
	I F''	9.026	9.027	9.028	9.029	9.030	9.031	9.032	9.033	9.034	9.034
1.697	I F'	-12.984	-12.910	-12.841	-12.777	-12.716	-12.658	-12.604	-12.552	-12.502	-12.455
	I F''	9.035	9.036	9.037	9.038	9.039	9.040	9.041	9.042	9.043	9.043
1.698	I F'	-12.410	-12.367	-12.325	-12.286	-12.247	-12.210	-12.175	-12.140	-12.107	-12.075
	I F''	9.044	9.045	9.046	9.047	9.048	9.049	9.050	9.051	9.052	9.052
1.699	I F'	-12.043	-12.013	-11.984	-11.955	-11.927	-11.900	-11.874	-11.849	-11.824	-11.799
	I F''	9.053	9.054	9.055	9.056	9.057	9.058	9.059	9.060	9.061	9.062
1.700	I F'	-11.776	-11.753	-11.730	-11.708	-11.687	-11.665	-11.645	-11.625	-11.605	-11.586
	I F''	9.062	9.063	9.064	9.065	9.066	9.067	9.068	9.069	9.070	9.071
1.701	I F'	-11.567	-11.548	-11.530	-11.512	-11.495	-11.478	-11.461	-11.444	-11.428	-11.412
	I F''	9.071	9.072	9.073	9.074	9.075	9.076	9.077	9.078	9.079	9.080
1.702	I F'	-11.396	-11.381	-11.366	-11.351	-11.336	-11.322	-11.308	-11.294	-11.280	-11.267
	I F''	9.080	9.081	9.082	9.083	9.084	9.085	9.086	9.087	9.088	9.089
1.703	I F'	-11.253	-11.240	-11.227	-11.215	-11.202	-11.190	-11.178	-11.166	-11.154	-11.142
	I F''	9.089	9.090	9.091	9.092	9.093	9.094	9.095	9.096	9.097	9.098
1.704	I F'	-11.131	-11.119	-11.108	-11.097	-11.086	-11.076	-11.065	-11.055	-11.044	-11.034
	I F''	9.098	9.099	9.100	9.101	9.102	9.103	9.104	9.105	9.106	9.107
1.705	I F'	-11.024	-11.014	-11.004	-10.995	-10.985	-10.976	-10.966	-10.957	-10.948	-10.939
	I F''	9.107	9.108	9.109	9.110	9.111	9.112	9.113	9.114	9.115	9.116
1.706	I F'	-10.930	-10.921	-10.913	-10.904	-10.896	-10.887	-10.879	-10.871	-10.863	-10.855
	I F''	9.117	9.117	9.118	9.119	9.120	9.121	9.122	9.123	9.124	9.125
1.707	I F'	-10.847	-10.839	-10.831	-10.823	-10.816	-10.808	-10.801	-10.794	-10.786	-10.779
	I F''	9.126	9.126	9.127	9.128	9.129	9.130	9.131	9.132	9.133	9.134
1.708	I F'	-10.772	-10.765	-10.758	-10.751	-10.744	-10.737	-10.731	-10.724	-10.717	-10.711
	I F''	9.135	9.135	9.136	9.137	9.138	9.139	9.140	9.141	9.142	9.143

ATOMIC SYMBOL = EU ATOMIC NUMBER = 63 L₂ ABSORPTION EDGE (1.62710 Å; 7.6195 KEV)

			0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.613	I	F ⁺	-9.965	-9.974	-9.983	-9.992	-10.002	-10.011	-10.020	-10.030	-10.039	-10.048
	I	F ⁺	12.260	12.261	12.263	12.264	12.266	12.267	12.268	12.270	12.271	12.273
1.614	I	F ⁺	-10.058	-10.068	-10.077	-10.087	-10.097	-10.107	-10.117	-10.127	-10.137	-10.147
	I	F ⁺	12.274	12.276	12.277	12.279	12.280	12.282	12.283	12.284	12.286	12.287
1.615	I	F ⁺	-10.157	-10.168	-10.178	-10.189	-10.199	-10.210	-10.220	-10.230	-10.242	-10.253
	I	F ⁺	12.289	12.290	12.292	12.293	12.295	12.296	12.297	12.299	12.300	12.302
1.616	I	F ⁺	-10.264	-10.275	-10.286	-10.298	-10.309	-10.321	-10.332	-10.344	-10.356	-10.367
	I	F ⁺	12.303	12.305	12.306	12.308	12.309	12.311	12.312	12.313	12.315	12.316
1.617	I	F ⁺	-10.379	-10.391	-10.404	-10.416	-10.428	-10.441	-10.453	-10.466	-10.479	-10.492
	I	F ⁺	12.318	12.319	12.321	12.322	12.324	12.325	12.327	12.328	12.329	12.331
1.618	I	F ⁺	-10.505	-10.518	-10.532	-10.545	-10.559	-10.573	-10.586	-10.600	-10.615	-10.629
	I	F ⁺	12.332	12.334	12.335	12.337	12.338	12.340	12.341	12.343	12.344	12.345
1.619	I	F ⁺	-10.643	-10.658	-10.673	-10.688	-10.703	-10.718	-10.734	-10.749	-10.765	-10.781
	I	F ⁺	12.347	12.348	12.350	12.351	12.353	12.354	12.356	12.357	12.359	12.360
1.620	I	F ⁺	-10.797	-10.814	-10.830	-10.847	-10.864	-10.881	-10.899	-10.917	-10.935	-10.953
	I	F ⁺	12.362	12.363	12.364	12.366	12.367	12.369	12.370	12.372	12.373	12.375
1.621	I	F ⁺	-10.971	-10.990	-11.009	-11.028	-11.048	-11.067	-11.088	-11.108	-11.129	-11.150
	I	F ⁺	12.376	12.378	12.379	12.381	12.382	12.383	12.385	12.386	12.388	12.389
1.622	I	F ⁺	-11.171	-11.193	-11.215	-11.238	-11.261	-11.284	-11.308	-11.332	-11.357	-11.382
	I	F ⁺	12.391	12.392	12.394	12.395	12.397	12.398	12.400	12.401	12.402	12.404
1.623	I	F ⁺	-11.408	-11.434	-11.461	-11.489	-11.517	-11.545	-11.575	-11.605	-11.636	-11.667
	I	F ⁺	12.405	12.407	12.408	12.410	12.411	12.413	12.414	12.416	12.417	12.419
1.624	I	F ⁺	-11.700	-11.733	-11.767	-11.802	-11.838	-11.876	-11.914	-11.954	-11.995	-12.037
	I	F ⁺	12.420	12.422	12.423	12.424	12.426	12.427	12.429	12.430	12.432	12.433
1.625	I	F ⁺	-12.081	-12.127	-12.174	-12.223	-12.275	-12.329	-12.385	-12.444	-12.506	-12.572
	I	F ⁺	12.435	12.436	12.438	12.439	12.441	12.442	12.444	12.445	12.447	12.448
1.626	I	F ⁺	-12.641	-12.715	-12.794	-12.879	-12.970	-13.068	-13.176	-13.295	-13.428	-13.578
	I	F ⁺	12.449	12.451	12.452	12.454	12.455	12.457	12.458	12.460	12.461	12.463
1.627	I	F ⁺	-13.751	-13.955	-14.203	-14.521	-14.965	-15.709	-18.886	-15.833	-15.026	-14.565
	I	F ⁺	12.464	12.466	12.467	12.469	12.470	12.472	12.473	8.963	8.964	8.965
1.628	I	F ⁺	-14.241	-13.991	-13.787	-13.616	-13.468	-13.338	-13.222	-13.117	-13.021	-12.934
	I	F ⁺	8.966	8.967	8.968	8.969	8.970	8.970	8.970	8.972	8.973	8.974
1.629	I	F ⁺	-12.853	-12.777	-12.707	-12.641	-12.579	-12.521	-12.465	-12.413	-12.363	-12.315
	I	F ⁺	8.975	8.976	8.977	8.978	8.979	8.980	8.981	8.982	8.983	8.983
1.630	I	F ⁺	-12.269	-12.226	-12.184	-12.143	-12.105	-12.067	-12.031	-11.997	-11.963	-11.931
	I	F ⁺	8.984	8.985	8.986	8.987	8.988	8.989	8.990	8.991	8.992	8.993
1.631	I	F ⁺	-11.899	-11.869	-11.839	-11.810	-11.783	-11.755	-11.729	-11.703	-11.678	-11.654
	I	F ⁺	8.994	8.995	8.996	8.996	8.997	8.998	8.999	9.000	9.001	9.002
1.632	I	F ⁺	-11.630	-11.607	-11.584	-11.562	-11.541	-11.520	-11.499	-11.479	-11.459	-11.440
	I	F ⁺	9.003	9.004	9.005	9.006	9.007	9.008	9.009	9.009	9.010	9.011
1.633	I	F ⁺	-11.421	-11.402	-11.384	-11.366	-11.348	-11.331	-11.314	-11.298	-11.281	-11.265
	I	F ⁺	9.012	9.013	9.014	9.015	9.016	9.017	9.018	9.019	9.020	9.021
1.634	I	F ⁺	-11.250	-11.234	-11.219	-11.204	-11.190	-11.175	-11.161	-11.147	-11.133	-11.120
	I	F ⁺	9.022	9.022	9.023	9.024	9.025	9.026	9.027	9.028	9.029	9.030
1.635	I	F ⁺	-11.107	-11.094	-11.081	-11.068	-11.055	-11.043	-11.031	-11.019	-11.007	-10.996
	I	F ⁺	9.031	9.032	9.033	9.034	9.035	9.036	9.037	9.037	9.038	9.039
1.636	I	F ⁺	-10.984	-10.973	-10.962	-10.951	-10.940	-10.929	-10.918	-10.908	-10.898	-10.888
	I	F ⁺	9.040	9.041	9.042	9.043	9.044	9.045	9.046	9.047	9.048	9.048
1.637	I	F ⁺	-10.878	-10.868	-10.858	-10.848	-10.839	-10.829	-10.820	-10.811	-10.802	-10.793
	I	F ⁺	9.049	9.050	9.051	9.052	9.053	9.054	9.055	9.056	9.057	9.058
1.638	I	F ⁺	-10.784	-10.775	-10.766	-10.758	-10.749	-10.741	-10.733	-10.724	-10.716	-10.708
	I	F ⁺	9.059	9.060	9.061	9.061	9.062	9.063	9.064	9.065	9.066	9.067
1.639	I	F ⁺	-10.700	-10.693	-10.685	-10.677	-10.670	-10.662	-10.655	-10.647	-10.640	-10.633
	I	F ⁺	9.068	9.069	9.070	9.071	9.072	9.073	9.074	9.075	9.076	9.076
1.640	I	F ⁺	-10.626	-10.619	-10.612	-10.605	-10.598	-10.591	-10.585	-10.578	-10.571	-10.565
	I	F ⁺	9.077	9.078	9.079	9.080	9.081	9.082	9.083	9.084	9.085	9.086

ATOMIC SYMBOL = GD ATOMIC NUMBER = 64 L₂ ABSORPTION EDGE (1.56320 Å; 7.9309 KEV)

			0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.549	I	F ⁺	-9.867	-9.876	-9.885	-9.894	-9.903	-9.912	-9.921	-9.930	-9.940	-9.949
	I	F ⁺	12.101	12.102	12.104	12.105	12.106	12.108	12.109	12.110	12.112	12.113
1.550	I	F ⁺	-9.958	-9.968	-9.977	-9.987	-9.996	-10.006	-10.016	-10.026	-10.036	-10.046
	I	F ⁺	12.114	12.116	12.117	12.118	12.120	12.121	12.122	12.124	12.125	12.126
1.551	I	F ⁺	-10.056	-10.066	-10.076	-10.086	-10.097	-10.107	-10.118	-10.128	-10.139	-10.150
	I	F ⁺	12.128	12.129	12.130	12.132	12.133	12.134	12.136	12.137	12.138	12.140
1.552	I	F ⁺	-10.160	-10.171	-10.182	-10.194	-10.205	-10.216	-10.228	-10.239	-10.251	-10.262
	I	F ⁺	12.141	12.143	12.144	12.145	12.147	12.148	12.149	12.151	12.152	12.153
1.553	I	F ⁺	-10.274	-10.286	-10.298	-10.310	-10.322	-10.335	-10.347	-10.360	-10.372	-10.385
	I	F ⁺	12.155	12.156	12.157	12.159	12.160	12.161	12.163	12.164	12.165	12.167
1.554	I	F ⁺	-10.398	-10.411	-10.425	-10.438	-10.451	-10.465	-10.479	-10.493	-10.507	-10.521
	I	F ⁺	12.168	12.169	12.171	12.172	12.173	12.175	12.176	12.178	12.179	12.180
1.555	I	F ⁺	-10.535	-10.550	-10.564	-10.579	-10.594	-10.609	-10.625	-10.640	-10.656	-10.672
	I	F ⁺	12.182	12.183	12.184	12.186	12.187	12.188	12.190	12.191	12.192	12.194
1.556	I	F ⁺	-10.688	-10.705	-10.721	-10.738	-10.755	-10.772	-10.790	-10.807	-10.825	-10.843
	I	F ⁺	12.195	12.196	12.198	12.199	12.200	12.202	12.203	12.205	12.206	12.207
1.557	I	F ⁺	-10.862	-10.881	-10.900	-10.919	-10.939	-10.959	-10.979	-10.999	-11.020	-11.042
	I	F ⁺	12.209	12.210	12.211	12.213	12.214	12.215	12.217	12.218	12.219	12.221
1.558	I	F ⁺	-11.063	-11.085	-11.108	-11.131	-11.154	-11.178	-11.202	-11.227	-11.252	-11.278
	I	F ⁺	12.222	12.223	12.225	12.226	12.227	12.229	12.230	12.232	12.233	12.234
1.559	I	F ⁺	-11.304	-11.331	-11.358	-11.387	-11.415	-11.445	-11.475	-11.506	-11.538	-11.571
	I	F ⁺	12.236	12.237	12.238	12.240	12.241	12.242	12.244	12.245	12.246	12.248
1.560	I	F ⁺	-11.605	-11.639	-11.675	-11.712	-11.750	-11.789	-11.830	-11.872	-11.915	-11.961
	I	F ⁺	12.249	12.250	12.252	12.253	12.255	12.256	12.257	12.259	12.260	12.261
1.561	I	F ⁺	-12.008	-12.057	-12.109	-12.162	-12.219	-12.278	-12.341	-12.407	-12.478	-12.553
	I	F ⁺	12.263	12.264	12.265	12.267	12.268	12.269	12.271	12.272	12.273	12.275
1.562	I	F ⁺	-12.633	-12.720	-12.813	-12.916	-13.028	-13.154	-13.295	-13.457	-13.648	-13.878
	I	F ⁺	12.276	12.278	12.279	12.280	12.282	12.283	12.284	12.286	12.287	12.288
1.563	I	F ⁺	-14.169	-14.568	-15.203	-16.930	-15.752	-14.638	-14.352	-14.020	-13.767	-13.563
	I	F ⁺	12.290	12.291	12.292	12.294	8.902	8.903	8.904	8.905	8.906	8.907
1.564	I	F ⁺	-13.392	-13.245	-13.116	-13.001	-12.897	-12.803	-12.717	-12.638	-12.564	-12.495
	I	F ⁺	8.908	8.908	8.909	8.910	8.911	8.912	8.913	8.914	8.915	8.916
1.565	I	F ⁺	-12.430	-12.370	-12.312	-12.258	-12.207	-12.158	-12.111	-12.067	-12.024	-11.983
	I	F ⁺	8.917	8.918	8.919	8.920	8.921	8.922	8.923	8.924	8.925	8.926
1.566	I	F ⁺	-11.944	-11.906	-11.870	-11.835	-11.801	-11.768	-11.736	-11.706	-11.676	-11.647
	I	F ⁺	8.927	8.928	8.929	8.930	8.931	8.932	8.933	8.934	8.935	8.936
1.567	I	F ⁺	-11.619	-11.592	-11.566	-11.540	-11.515	-11.491	-11.467	-11.444	-11.421	-11.399
	I	F ⁺	8.936	8.937	8.938	8.939	8.940	8.941	8.942	8.943	8.944	8.945
1.568	I	F ⁺	-11.378	-11.356	-11.336	-11.316	-11.296	-11.277	-11.258	-11.240	-11.221	-11.204
	I	F ⁺	8.944	8.947	8.948	8.949	8.950	8.951	8.952	8.953	8.954	8.955
1.569	I	F ⁺	-11.186	-11.169	-11.153	-11.136	-11.120	-11.104	-11.089	-11.073	-11.058	-11.044
	I	F ⁺	8.956	8.957	8.958	8.959	8.960	8.961	8.962	8.963	8.964	8.965
1.570	I	F ⁺	-11.029	-11.015	-11.001	-10.987	-10.973	-10.960	-10.947	-10.934	-10.921	-10.909
	I	F ⁺	8.969	8.966	8.967	8.968	8.969	8.970	8.971	8.972	8.973	8.974
1.571	I	F ⁺	-10.876	-10.884	-10.872	-10.860	-10.849	-10.837	-10.826	-10.815	-10.804	-10.793
	I	F ⁺	8.975	8.976	8.977	8.978	8.979	8.980	8.981	8.982	8.983	8.984
1.572	I	F ⁺	-10.782	-10.772	-10.761	-10.751	-10.741	-10.731	-10.721	-10.711	-10.701	-10.692
	I	F ⁺	8.985	8.986	8.987	8.988	8.989	8.990	8.991	8.992	8.993	8.994
1.573	I	F ⁺	-10.683	-10.673	-10.664	-10.655	-10.646	-10.637	-10.628	-10.620	-10.611	-10.603
	I	F ⁺	8.994	8.995	8.996	8.997	8.998	8.999	9.000	9.001	9.002	9.003
1.574	I	F ⁺	-10.594	-10.586	-10.578	-10.570	-10.562	-10.554	-10.546	-10.539	-10.531	-10.524
	I	F ⁺	9.004	9.005	9.006	9.007	9.008	9.009	9.010	9.011	9.012	9.013
1.575	I	F ⁺	-10.516	-10.509	-10.501	-10.494	-10.487	-10.480	-10.473	-10.466	-10.459	-10.452
	I	F ⁺	9.014	9.015	9.016	9.017	9.018	9.019	9.020	9.021	9.022	9.023
1.576	I	F ⁺	-10.446	-10.439	-10.432	-10.426	-10.419	-10.413	-10.407	-10.401	-10.394	-10.388
	I	F ⁺	9.023	9.024	9.025	9.026	9.027	9.028	9.029	9.030	9.031	9.032

ATOMIC SYMBOL = TB		ATOMIC NUMBER = 65		L ₂ ABSORPTION EDGE (1.50230 Å)		8.2524 KEV)					
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.488	I F'	-9.717	-9.726	-9.735	-9.744	-9.753	-9.762	-9.771	-9.781	-9.790	-9.800
	I F''	12.097	12.099	12.100	12.102	12.104	12.105	12.107	12.108	12.110	12.112
1.489	I F'	-9.809	-9.819	-9.828	-9.838	-9.848	-9.857	-9.867	-9.877	-9.887	-9.897
	I F''	12.113	12.115	12.116	12.118	12.120	12.121	12.123	12.124	12.126	12.128
1.490	I F'	-9.908	-9.918	-9.928	-9.939	-9.949	-9.960	-9.970	-9.981	-9.992	-10.003
	I F''	12.129	12.131	12.132	12.134	12.136	12.137	12.139	12.140	12.142	12.144
1.491	I F'	-10.014	-10.025	-10.036	-10.047	-10.059	-10.070	-10.082	-10.093	-10.105	-10.117
	I F''	12.145	12.147	12.148	12.150	12.152	12.153	12.155	12.157	12.158	12.160
1.492	I F'	-10.129	-10.141	-10.153	-10.165	-10.178	-10.190	-10.203	-10.215	-10.228	-10.241
	I F''	12.161	12.163	12.165	12.166	12.168	12.169	12.171	12.173	12.174	12.176
1.493	I F'	-10.254	-10.268	-10.281	-10.294	-10.308	-10.322	-10.336	-10.350	-10.364	-10.378
	I F''	12.178	12.179	12.181	12.182	12.184	12.186	12.187	12.189	12.191	12.192
1.494	I F'	-10.393	-10.408	-10.423	-10.438	-10.453	-10.468	-10.484	-10.499	-10.515	-10.531
	I F''	12.194	12.195	12.197	12.199	12.200	12.202	12.204	12.205	12.207	12.208
1.495	I F'	-10.548	-10.564	-10.581	-10.598	-10.615	-10.632	-10.650	-10.668	-10.686	-10.704
	I F''	12.210	12.212	12.213	12.215	12.217	12.218	12.220	12.221	12.223	12.225
1.496	I F'	-10.723	-10.742	-10.761	-10.781	-10.800	-10.821	-10.841	-10.862	-10.883	-10.904
	I F''	12.226	12.228	12.230	12.231	12.233	12.235	12.236	12.238	12.239	12.241
1.497	I F'	-10.926	-10.948	-10.971	-10.994	-11.017	-11.041	-11.065	-11.090	-11.115	-11.141
	I F''	12.243	12.244	12.246	12.248	12.249	12.251	12.253	12.254	12.256	12.257
1.498	I F'	-11.167	-11.194	-11.222	-11.250	-11.279	-11.308	-11.338	-11.369	-11.401	-11.434
	I F''	12.259	12.261	12.262	12.264	12.266	12.267	12.269	12.271	12.272	12.274
1.499	I F'	-11.467	-11.501	-11.537	-11.573	-11.611	-11.650	-11.690	-11.731	-11.774	-11.818
	I F''	12.276	12.277	12.279	12.281	12.282	12.284	12.285	12.287	12.289	12.290
1.500	I F'	-11.865	-11.913	-11.963	-12.015	-12.070	-12.127	-12.187	-12.251	-12.318	-12.389
	I F''	12.292	12.294	12.295	12.297	12.299	12.300	12.302	12.304	12.305	12.307
1.501	I F'	-12.465	-12.546	-12.633	-12.727	-12.830	-12.943	-13.068	-13.208	-13.368	-13.555
	I F''	12.309	12.310	12.312	12.314	12.315	12.317	12.319	12.320	12.322	12.324
1.502	I F'	-13.778	-14.057	-14.429	-14.990	-16.170	-16.271	-15.018	-14.448	-14.075	-13.797
	I F''	12.325	12.327	12.329	12.330	12.332	12.333	8.851	8.852	8.853	8.855
1.503	I F'	-13.577	-13.393	-13.237	-13.100	-12.979	-12.870	-12.771	-12.681	-12.597	-12.520
	I F''	8.856	8.857	8.858	8.859	8.860	8.861	8.862	8.863	8.864	8.865
1.504	I F'	-12.448	-12.381	-12.318	-12.258	-12.202	-12.148	-12.098	-12.049	-12.003	-11.959
	I F''	8.866	8.867	8.868	8.869	8.870	8.871	8.872	8.873	8.874	8.875
1.505	I F'	-11.917	-11.876	-11.837	-11.799	-11.763	-11.728	-11.694	-11.662	-11.630	-11.599
	I F''	8.876	8.877	8.878	8.879	8.880	8.881	8.882	8.883	8.884	8.885
1.506	I F'	-11.570	-11.541	-11.513	-11.486	-11.459	-11.433	-11.408	-11.384	-11.360	-11.337
	I F''	8.886	8.887	8.888	8.889	8.890	8.891	8.892	8.893	8.894	8.895
1.507	I F'	-11.314	-11.292	-11.270	-11.249	-11.228	-11.208	-11.188	-11.169	-11.150	-11.131
	I F''	8.896	8.897	8.898	8.899	8.900	8.901	8.902	8.903	8.904	8.905
1.508	I F'	-11.113	-11.095	-11.078	-11.060	-11.044	-11.027	-11.011	-10.995	-10.979	-10.964
	I F''	8.906	8.907	8.908	8.909	8.910	8.911	8.912	8.913	8.914	8.915
1.509	I F'	-10.949	-10.934	-10.919	-10.905	-10.891	-10.877	-10.863	-10.849	-10.836	-10.823
	I F''	8.916	8.917	8.918	8.919	8.920	8.921	8.922	8.923	8.924	8.925
1.510	I F'	-10.810	-10.798	-10.785	-10.773	-10.761	-10.749	-10.737	-10.725	-10.714	-10.703
	I F''	8.926	8.927	8.928	8.929	8.930	8.931	8.932	8.933	8.934	8.935
1.511	I F'	-10.691	-10.680	-10.670	-10.659	-10.648	-10.638	-10.628	-10.618	-10.608	-10.598
	I F''	8.936	8.937	8.938	8.939	8.940	8.941	8.942	8.943	8.944	8.945
1.512	I F'	-10.588	-10.578	-10.569	-10.559	-10.550	-10.541	-10.532	-10.523	-10.514	-10.505
	I F''	8.946	8.947	8.948	8.949	8.950	8.951	8.952	8.953	8.954	8.955
1.513	I F'	-10.497	-10.488	-10.480	-10.471	-10.463	-10.455	-10.447	-10.439	-10.431	-10.423
	I F''	8.956	8.957	8.958	8.959	8.960	8.961	8.962	8.963	8.964	8.965
1.514	I F'	-10.416	-10.408	-10.400	-10.393	-10.386	-10.378	-10.371	-10.364	-10.357	-10.350
	I F''	8.966	8.967	8.968	8.969	8.970	8.971	8.972	8.973	8.974	8.975
1.515	I F'	-10.343	-10.336	-10.329	-10.323	-10.316	-10.309	-10.303	-10.296	-10.290	-10.284
	I F''	8.976	8.977	8.978	8.979	8.980	8.981	8.982	8.983	8.984	8.985

ATOMIC SYMBOL = DY		ATOMIC NUMBER = 66		L ₂ ABSORPTION EDGE (1.44450 Å)		8.5827 KEV)					
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.431	I F'	-9.626	-9.635	-9.644	-9.654	-9.663	-9.672	-9.682	-9.691	-9.701	-9.710
	I F''	11.993	11.995	11.997	11.999	12.001	12.003	12.004	12.006	12.008	12.010
1.432	I F'	-9.720	-9.730	-9.739	-9.749	-9.759	-9.769	-9.779	-9.790	-9.800	-9.810
	I F''	12.012	12.014	12.015	12.017	12.019	12.021	12.023	12.025	12.026	12.028
1.433	I F'	-9.821	-9.831	-9.842	-9.853	-9.863	-9.874	-9.885	-9.896	-9.907	-9.919
	I F''	12.030	12.032	12.034	12.036	12.037	12.039	12.041	12.043	12.045	12.047
1.434	I F'	-9.930	-9.941	-9.953	-9.965	-9.976	-9.988	-10.000	-10.012	-10.025	-10.037
	I F''	12.049	12.050	12.052	12.054	12.056	12.058	12.060	12.062	12.064	12.065
1.435	I F'	-10.049	-10.062	-10.075	-10.087	-10.100	-10.113	-10.127	-10.140	-10.153	-10.167
	I F''	12.067	12.069	12.071	12.073	12.075	12.077	12.078	12.080	12.082	12.084
1.436	I F'	-10.181	-10.195	-10.209	-10.223	-10.237	-10.252	-10.266	-10.281	-10.296	-10.312
	I F''	12.086	12.088	12.090	12.092	12.094	12.095	12.097	12.099	12.101	12.103
1.437	I F'	-10.327	-10.343	-10.358	-10.374	-10.390	-10.407	-10.423	-10.440	-10.457	-10.474
	I F''	12.105	12.107	12.109	12.111	12.112	12.114	12.116	12.118	12.120	12.122
1.438	I F'	-10.492	-10.510	-10.528	-10.546	-10.564	-10.583	-10.602	-10.622	-10.641	-10.661
	I F''	12.124	12.126	12.128	12.130	12.132	12.133	12.135	12.137	12.139	12.141
1.439	I F'	-10.682	-10.702	-10.723	-10.745	-10.766	-10.788	-10.811	-10.834	-10.857	-10.881
	I F''	12.143	12.145	12.147	12.149	12.151	12.153	12.155	12.157	12.159	12.160
1.440	I F'	-10.905	-10.930	-10.955	-10.981	-11.007	-11.034	-11.061	-11.089	-11.118	-11.147
	I F''	12.162	12.164	12.166	12.168	12.170	12.172	12.174	12.176	12.178	12.180
1.441	I F'	-11.177	-11.208	-11.240	-11.272	-11.306	-11.340	-11.375	-11.412	-11.449	-11.488
	I F''	12.182	12.184	12.186	12.188	12.190	12.192	12.194	12.195	12.197	12.199
1.442	I F'	-11.528	-11.570	-11.612	-11.657	-11.703	-11.751	-11.801	-11.854	-11.908	-11.966
	I F''	12.201	12.203	12.205	12.207	12.209	12.211	12.213	12.215	12.217	12.219
1.443	I F'	-12.026	-12.090	-12.157	-12.228	-12.304	-12.386	-12.473	-12.568	-12.671	-12.785
	I F''	12.221	12.223	12.225	12.227	12.229	12.231	12.233	12.235	12.237	12.239
1.444	I F'	-12.910	-13.052	-13.214	-13.402	-13.628	-13.912	-14.293	-14.874	-16.166	-15.928
	I F''	12.241	12.243	12.245	12.247	12.249	12.251	12.253	12.255	12.257	8.787
1.445	I F'	-14.787	-14.241	-13.879	-13.608	-13.391	-13.211	-13.057	-12.922	-12.802	-12.694
	I F''	8.788	8.789	8.790	8.791	8.792	8.793	8.794	8.795	8.796	8.797
1.446	I F'	-12.597	-12.507	-12.425	-12.348	-12.277	-12.210	-12.148	-12.089	-12.033	-11.980
	I F''	8.798	8.799	8.800	8.801	8.803	8.804	8.805	8.806	8.807	8.808
1.447	I F'	-11.929	-11.881	-11.836	-11.792	-11.750	-11.709	-11.670	-11.633	-11.597	-11.562
	I F''	8.809	8.810	8.811	8.812	8.813	8.814	8.815	8.816	8.817	8.818
1.448	I F'	-11.529	-11.496	-11.465	-11.434	-11.405	-11.376	-11.348	-11.321	-11.295	-11.269
	I F''	8.819	8.820	8.821	8.822	8.823	8.824	8.825	8.826	8.827	8.828
1.449	I F'	-11.244	-11.220	-11.196	-11.173	-11.151	-11.129	-11.107	-11.086	-11.066	-11

ATOMIC SYMBOL = HO		ATOMIC NUMBER = 67		L ₂ ABSORPTION EDGE (1.39050 Å; 8.9160 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.377	I	-9.549	-9.559	-9.569	-9.578	-9.588	-9.598	-9.608	-9.618	-9.628	-9.639
	F'	11.969	11.971	11.972	11.974	11.976	11.977	11.979	11.981	11.983	11.984
1.378	I	-9.649	-9.659	-9.670	-9.680	-9.691	-9.701	-9.712	-9.723	-9.734	-9.745
	F'	11.986	11.988	11.989	11.991	11.993	11.994	11.996	11.998	11.999	12.001
1.379	I	-9.756	-9.767	-9.779	-9.790	-9.802	-9.813	-9.825	-9.837	-9.849	-9.861
	F'	12.003	12.004	12.006	12.008	12.010	12.011	12.013	12.015	12.016	12.018
1.380	I	-9.873	-9.885	-9.898	-9.910	-9.923	-9.935	-9.948	-9.961	-9.974	-9.987
	F'	12.020	12.021	12.023	12.025	12.026	12.028	12.030	12.031	12.033	12.035
1.381	I	-10.001	-10.014	-10.028	-10.041	-10.055	-10.069	-10.084	-10.098	-10.112	-10.127
	F'	12.037	12.038	12.040	12.042	12.043	12.045	12.047	12.048	12.050	12.052
1.382	I	-10.142	-10.157	-10.172	-10.187	-10.203	-10.219	-10.235	-10.251	-10.267	-10.283
	F'	12.053	12.055	12.057	12.059	12.060	12.062	12.064	12.065	12.067	12.069
1.383	I	-10.300	-10.317	-10.334	-10.352	-10.369	-10.387	-10.405	-10.424	-10.442	-10.461
	F'	12.070	12.072	12.074	12.076	12.077	12.079	12.081	12.082	12.084	12.086
1.384	I	-10.480	-10.500	-10.520	-10.540	-10.560	-10.581	-10.602	-10.623	-10.645	-10.667
	F'	12.087	12.089	12.091	12.093	12.094	12.096	12.098	12.099	12.101	12.103
1.385	I	-10.690	-10.713	-10.736	-10.760	-10.785	-10.809	-10.835	-10.861	-10.887	-10.914
	F'	12.104	12.106	12.108	12.110	12.111	12.113	12.115	12.116	12.118	12.120
1.386	I	-10.942	-10.970	-10.999	-11.028	-11.058	-11.090	-11.121	-11.154	-11.188	-11.222
	F'	12.121	12.123	12.125	12.127	12.128	12.130	12.132	12.133	12.135	12.137
1.387	I	-11.258	-11.294	-11.332	-11.371	-11.412	-11.453	-11.497	-11.541	-11.588	-11.637
	F'	12.138	12.140	12.142	12.144	12.145	12.147	12.149	12.150	12.152	12.154
1.388	I	-11.687	-11.740	-11.795	-11.853	-11.915	-11.979	-12.047	-12.120	-12.197	-12.280
	F'	12.156	12.157	12.159	12.161	12.162	12.164	12.166	12.168	12.169	12.171
1.389	I	-12.369	-12.466	-12.572	-12.689	-12.818	-12.965	-13.134	-13.332	-13.574	-13.881
	F'	12.173	12.174	12.176	12.178	12.179	12.181	12.183	12.185	12.186	12.188
1.390	I	-14.308	-15.010	-17.414	-15.277	-14.441	-13.974	-13.648	-13.398	-13.195	-13.025
	F'	12.190	12.191	12.193	8.735	8.736	8.737	8.738	8.739	8.740	8.741
1.391	I	-12.877	-12.748	-12.633	-12.529	-12.434	-12.347	-12.267	-12.193	-12.123	-12.058
	F'	8.742	8.743	8.744	8.745	8.746	8.747	8.749	8.750	8.751	8.752
1.392	I	-11.997	-11.939	-11.884	-11.832	-11.783	-11.736	-11.691	-11.647	-11.606	-11.566
	F'	8.753	8.754	8.755	8.756	8.757	8.758	8.759	8.760	8.762	8.763
1.393	I	-11.528	-11.491	-11.456	-11.422	-11.388	-11.356	-11.325	-11.295	-11.266	-11.238
	F'	8.764	8.765	8.766	8.767	8.768	8.769	8.770	8.771	8.772	8.773
1.394	I	-11.210	-11.183	-11.157	-11.132	-11.107	-11.083	-11.060	-11.037	-11.015	-10.993
	F'	8.774	8.775	8.776	8.778	8.779	8.780	8.781	8.782	8.783	8.784
1.395	I	-10.972	-10.951	-10.930	-10.910	-10.891	-10.872	-10.853	-10.835	-10.817	-10.799
	F'	8.785	8.786	8.787	8.788	8.789	8.790	8.791	8.792	8.793	8.795
1.396	I	-10.782	-10.765	-10.748	-10.732	-10.716	-10.700	-10.685	-10.669	-10.655	-10.640
	F'	8.796	8.797	8.798	8.799	8.800	8.801	8.802	8.803	8.804	8.805
1.397	I	-10.625	-10.611	-10.597	-10.583	-10.570	-10.557	-10.544	-10.531	-10.518	-10.505
	F'	8.806	8.807	8.808	8.809	8.811	8.812	8.813	8.814	8.815	8.816
1.398	I	-10.493	-10.481	-10.469	-10.457	-10.446	-10.434	-10.423	-10.412	-10.401	-10.390
	F'	8.817	8.818	8.819	8.820	8.821	8.822	8.823	8.824	8.825	8.826
1.399	I	-10.379	-10.369	-10.358	-10.348	-10.338	-10.328	-10.318	-10.308	-10.298	-10.289
	F'	8.828	8.829	8.830	8.831	8.832	8.833	8.834	8.835	8.836	8.837
1.400	I	-10.279	-10.270	-10.261	-10.252	-10.243	-10.234	-10.225	-10.217	-10.208	-10.200
	F'	8.838	8.839	8.840	8.841	8.842	8.844	8.845	8.846	8.847	8.848
1.401	I	-10.191	-10.183	-10.175	-10.167	-10.159	-10.151	-10.143	-10.136	-10.128	-10.120
	F'	8.849	8.850	8.851	8.852	8.853	8.854	8.855	8.856	8.857	8.858
1.402	I	-10.113	-10.106	-10.098	-10.091	-10.084	-10.077	-10.070	-10.063	-10.056	-10.049
	F'	8.859	8.861	8.862	8.863	8.864	8.865	8.866	8.867	8.868	8.869
1.403	I	-10.043	-10.036	-10.029	-10.023	-10.016	-10.010	-10.004	-9.997	-9.991	-9.985
	F'	8.870	8.871	8.872	8.873	8.874	8.875	8.877	8.878	8.879	8.880
1.404	I	-9.979	-9.973	-9.967	-9.961	-9.955	-9.949	-9.944	-9.938	-9.932	-9.927
	F'	8.881	8.882	8.883	8.884	8.885	8.886	8.887	8.888	8.889	8.890

ATOMIC SYMBOL = ER		ATOMIC NUMBER = 68		L ₂ ABSORPTION EDGE (1.33860 Å; 9.2616 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.325	I	-9.427	-9.437	-9.447	-9.456	-9.466	-9.476	-9.486	-9.496	-9.506	-9.516
	F'	11.892	11.894	11.896	11.898	11.899	11.901	11.903	11.905	11.906	11.908
1.326	I	-9.526	-9.536	-9.547	-9.557	-9.568	-9.578	-9.589	-9.600	-9.610	-9.621
	F'	11.910	11.912	11.913	11.915	11.917	11.918	11.920	11.922	11.924	11.925
1.327	I	-9.632	-9.644	-9.655	-9.666	-9.678	-9.689	-9.701	-9.712	-9.724	-9.736
	F'	11.927	11.929	11.931	11.932	11.934	11.936	11.938	11.939	11.941	11.943
1.328	I	-9.748	-9.760	-9.773	-9.785	-9.797	-9.810	-9.823	-9.836	-9.849	-9.862
	F'	11.945	11.946	11.948	11.950	11.952	11.953	11.955	11.957	11.958	11.960
1.329	I	-9.875	-9.888	-9.902	-9.915	-9.929	-9.943	-9.957	-9.971	-9.986	-10.000
	F'	11.962	11.964	11.965	11.967	11.969	11.971	11.972	11.974	11.976	11.978
1.330	I	-10.015	-10.030	-10.045	-10.060	-10.076	-10.091	-10.107	-10.123	-10.139	-10.156
	F'	11.979	11.981	11.983	11.985	11.986	11.988	11.990	11.992	11.993	11.995
1.331	I	-10.172	-10.189	-10.206	-10.223	-10.241	-10.258	-10.276	-10.295	-10.313	-10.332
	F'	11.997	11.999	12.000	12.002	12.004	12.006	12.007	12.009	12.011	12.013
1.332	I	-10.351	-10.370	-10.390	-10.410	-10.430	-10.451	-10.472	-10.493	-10.515	-10.537
	F'	12.014	12.016	12.018	12.020	12.021	12.023	12.025	12.027	12.028	12.030
1.333	I	-10.559	-10.582	-10.606	-10.629	-10.653	-10.678	-10.703	-10.729	-10.755	-10.782
	F'	12.032	12.034	12.035	12.037	12.039	12.041	12.042	12.044	12.046	12.048
1.334	I	-10.809	-10.837	-10.866	-10.895	-10.926	-10.956	-10.988	-11.021	-11.054	-11.088
	F'	12.049	12.051	12.053	12.055	12.056	12.058	12.060	12.062	12.063	12.065
1.335	I	-11.124	-11.160	-11.198	-11.236	-11.276	-11.318	-11.361	-11.405	-11.452	-11.500
	F'	12.067	12.069	12.070	12.072	12.074	12.076	12.077	12.079	12.081	12.083
1.336	I	-11.550	-11.603	-11.658	-11.715	-11.776	-11.840	-11.908	-11.980	-12.057	-12.139
	F'	12.085	12.086	12.088	12.090	12.092	12.093	12.095	12.097	12.099	12.100
1.337	I	-12.227	-12.324	-12.429	-12.544	-12.673	-12.818	-12.985	-13.181	-13.420	-13.723
	F'	12.102	12.104	12.106	12.107	12.109	12.111	12.113	12.114	12.116	12.118
1.338	I	-14.141	-14.823	-16.967	-15.174	-14.316	-13.843	-13.515	-13.264	-13.060	-12.889
	F'	12.120	12.121	12.123	8.681	8.682	8.683	8.684	8.685	8.686	8.687
1.339	I	-12.742	-12.613	-12.498	-12.394	-12.299	-12.213	-12.132	-12.058	-11.989	-11.924
	F'	8.688	8.689	8.691	8.692	8.693	8.694	8.695	8.696	8.697	8.698
1.340	I	-11.863	-11.805	-11.750	-11.698	-11.649	-11.602	-11.557	-11.514	-11.473	-11.433
	F'	8.700	8.701	8.702	8.703	8.704	8.705	8.706	8.707	8.709	8.710
1.341	I	-11.395	-11.358	-11.323	-11.289	-11.256	-11.224	-11.193	-11.163	-11.134	-11.106
	F'	8.711	8.712	8.713	8.714	8.715	8.716	8.718	8.719	8.720	8.721
1.342	I	-11.078	-11.052	-11.026	-11.000	-10.976	-10.952	-10.929	-10.906	-10.884	-10.862
	F'	8.722	8.723	8.724	8.725	8.727	8.728	8.729	8.730	8.731	8.732
1.343	I	-10.841	-10.820	-10.800	-10.780	-10.760	-10.741	-10.723	-10.704	-10.686	-10.669
	F'	8.733	8.734	8.736	8.737	8.738	8.739	8.740	8.741	8.742	8.743
1.344	I	-10.652	-10.635	-10.618	-10.602	-10.586	-10.570	-10.555	-10.540	-10.525	-10.510
	F'	8.745	8.746	8.747	8.748	8.749	8.750	8.751	8.752	8.754	8.755
1.345	I	-10.496	-10.482	-10.468	-10.454	-10.441	-10.428	-10.415	-10.402	-10.389	-10.377
	F'	8.756	8.757	8.758	8.759	8.760	8.761	8.763	8.764	8.765	8.766
1.346	I	-10.364	-10.352	-10.341	-10.329	-10.317	-10.306	-10.295	-10.283	-10.273	-10.262
	F'	8.767	8.768	8.769	8.770	8.772	8.773	8.774	8.775	8.776	8.777
1.347	I	-10.251	-10.241	-10.230	-10.220	-10.210	-10.200	-10.190	-10.181	-10.171	-10.161
	F'	8.778	8.779	8.781	8.782	8.783	8.784	8.785	8.786	8.787	8.788
1.348	I	-10.152	-10.143	-10.134	-10.125	-10.116	-10.107	-10.098	-10.090	-10.081	-10.073
	F'	8.790	8.791	8.792	8.793	8.794	8.795	8.796	8.797	8.799	8.800
1.349	I	-10.065	-10.057	-10.048	-10.040	-10.033	-10.025	-10.017	-10.009	-10.002	-9.994
	F'	8.801	8.802	8.803	8.804	8.805	8.807	8.808	8.809	8.810	8.811
1.350	I	-9.987	-9.980	-9.972	-9.965	-9.958	-9.951	-9.944	-9.937	-9.930	-9.924
	F'	8.812	8.813	8.814	8.816	8.817	8.818	8.819	8.820	8.821	8.822
1.351	I	-9.917	-9.910	-9.904	-9.897	-9.891	-9.885	-9.878	-9.872	-9.866	-9.860
	F'	8.823	8.825	8.826	8.827	8.828	8.829	8.830	8.831	8.832	8.834
1.352	I	-9.854	-9.848	-9.842	-9.836	-9.830	-9.825	-9.819	-9.813	-9.808	-9.802
	F'	8.835	8.836	8.837	8.838	8.839	8.840	8.841	8.843	8.844	8.845

ATOMIC SYMBOL = TM		ATOMIC NUMBER = 69		L ₂ ABSORPTION EDGE (1.28920 Å; 9.6165 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.275	I F'	-9.227	-9.236	-9.245	-9.254	-9.263	-9.272	-9.281	-9.291	-9.300	-9.309
	I F"	11.782	11.783	11.785	11.787	11.789	11.790	11.792	11.794	11.796	11.798
1.276	I F'	-9.319	-9.328	-9.338	-9.347	-9.357	-9.367	-9.376	-9.386	-9.396	-9.406
	I F"	11.799	11.801	11.803	11.805	11.806	11.808	11.810	11.812	11.814	11.815
1.277	I F'	-9.417	-9.427	-9.437	-9.447	-9.458	-9.468	-9.479	-9.490	-9.501	-9.512
	I F"	11.817	11.819	11.821	11.823	11.824	11.826	11.828	11.830	11.831	11.833
1.278	I F'	-9.523	-9.534	-9.545	-9.556	-9.567	-9.579	-9.590	-9.602	-9.614	-9.626
	I F"	11.835	11.837	11.839	11.840	11.842	11.844	11.846	11.848	11.849	11.851
1.279	I F'	-9.638	-9.650	-9.662	-9.674	-9.687	-9.699	-9.712	-9.725	-9.738	-9.751
	I F"	11.853	11.855	11.856	11.858	11.860	11.862	11.864	11.865	11.867	11.869
1.280	I F'	-9.764	-9.778	-9.791	-9.805	-9.818	-9.832	-9.846	-9.861	-9.875	-9.890
	I F"	11.871	11.873	11.874	11.876	11.878	11.880	11.882	11.883	11.885	11.887
1.281	I F'	-9.904	-9.919	-9.934	-9.949	-9.965	-9.980	-9.996	-10.012	-10.028	-10.045
	I F"	11.889	11.891	11.892	11.894	11.896	11.898	11.899	11.901	11.903	11.905
1.282	I F'	-10.061	-10.078	-10.095	-10.113	-10.130	-10.148	-10.166	-10.184	-10.203	-10.222
	I F"	11.907	11.908	11.910	11.912	11.914	11.916	11.917	11.919	11.921	11.923
1.283	I F'	-10.241	-10.260	-10.280	-10.300	-10.320	-10.341	-10.362	-10.384	-10.405	-10.427
	I F"	11.925	11.926	11.928	11.930	11.932	11.934	11.935	11.937	11.939	11.941
1.284	I F'	-10.450	-10.473	-10.496	-10.520	-10.545	-10.570	-10.595	-10.621	-10.647	-10.674
	I F"	11.943	11.944	11.946	11.948	11.950	11.952	11.953	11.955	11.957	11.959
1.285	I F'	-10.702	-10.730	-10.759	-10.789	-10.819	-10.850	-10.883	-10.915	-10.949	-10.984
	I F"	11.961	11.962	11.964	11.966	11.968	11.970	11.972	11.973	11.975	11.977
1.286	I F'	-11.020	-11.057	-11.095	-11.134	-11.175	-11.217	-11.261	-11.307	-11.354	-11.403
	I F"	11.979	11.981	11.982	11.984	11.986	11.988	11.990	11.991	11.993	11.995
1.287	I F'	-11.455	-11.509	-11.565	-11.624	-11.687	-11.753	-11.823	-11.898	-11.978	-12.064
	I F"	11.997	11.999	12.000	12.002	12.004	12.006	12.008	12.009	12.011	12.013
1.288	I F'	-12.157	-12.258	-12.369	-12.492	-12.631	-12.789	-12.973	-13.194	-13.470	-13.838
	I F"	12.015	12.017	12.019	12.020	12.022	12.024	12.026	12.028	12.029	12.031
1.289	I F'	-14.394	-15.577	-15.616	-14.403	-13.846	-13.480	-13.208	-12.991	-12.810	-12.656
	I F"	12.033	12.035	8.606	8.607	8.608	8.610	8.611	8.612	8.613	8.614
1.290	I F'	-12.522	-12.402	-12.295	-12.199	-12.109	-12.027	-11.951	-11.880	-11.814	-11.752
	I F"	8.615	8.616	8.618	8.619	8.620	8.621	8.622	8.623	8.624	8.626
1.291	I F'	-11.693	-11.638	-11.585	-11.535	-11.487	-11.442	-11.398	-11.357	-11.317	-11.278
	I F"	8.627	8.628	8.629	8.630	8.631	8.632	8.633	8.634	8.635	8.637
1.292	I F'	-11.241	-11.205	-11.171	-11.138	-11.105	-11.074	-11.044	-11.015	-10.986	-10.959
	I F"	8.638	8.639	8.640	8.641	8.642	8.643	8.644	8.645	8.646	8.649
1.293	I F'	-10.932	-10.906	-10.880	-10.856	-10.832	-10.808	-10.785	-10.763	-10.741	-10.720
	I F"	8.650	8.651	8.652	8.653	8.654	8.655	8.657	8.658	8.659	8.660
1.294	I F'	-10.699	-10.678	-10.658	-10.639	-10.620	-10.601	-10.583	-10.565	-10.547	-10.530
	I F"	8.661	8.662	8.663	8.665	8.666	8.667	8.668	8.669	8.670	8.672
1.295	I F'	-10.513	-10.496	-10.480	-10.464	-10.448	-10.433	-10.417	-10.402	-10.388	-10.373
	I F"	8.673	8.674	8.675	8.676	8.677	8.678	8.680	8.681	8.682	8.683
1.296	I F'	-10.359	-10.345	-10.331	-10.318	-10.305	-10.292	-10.279	-10.266	-10.254	-10.241
	I F"	8.684	8.685	8.686	8.688	8.689	8.690	8.691	8.692	8.693	8.694
1.297	I F'	-10.229	-10.217	-10.205	-10.194	-10.182	-10.171	-10.160	-10.149	-10.138	-10.127
	I F"	8.696	8.697	8.698	8.699	8.700	8.701	8.703	8.704	8.705	8.706
1.298	I F'	-10.117	-10.106	-10.096	-10.086	-10.076	-10.066	-10.056	-10.047	-10.037	-10.028
	I F"	8.707	8.708	8.709	8.711	8.712	8.713	8.714	8.715	8.716	8.718
1.299	I F'	-10.019	-10.010	-10.000	-9.992	-9.983	-9.974	-9.965	-9.957	-9.948	-9.940
	I F"	8.719	8.720	8.721	8.722	8.723	8.724	8.726	8.727	8.728	8.729
1.300	I F'	-9.932	-9.924	-9.916	-9.908	-9.900	-9.892	-9.884	-9.877	-9.869	-9.862
	I F"	8.730	8.731	8.732	8.734	8.735	8.736	8.737	8.738	8.739	8.741
1.301	I F'	-9.854	-9.847	-9.840	-9.833	-9.826	-9.819	-9.812	-9.805	-9.798	-9.792
	I F"	8.742	8.743	8.744	8.745	8.746	8.747	8.749	8.750	8.751	8.752
1.302	I F'	-9.785	-9.778	-9.772	-9.765	-9.759	-9.753	-9.746	-9.740	-9.734	-9.728
	I F"	8.753	8.754	8.756	8.757	8.758	8.759	8.760	8.761	8.762	8.764

ATOMIC SYMBOL = YB		ATOMIC NUMBER = 70		L ₂ ABSORPTION EDGE (1.24280 Å; 9.9756 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.229	I F'	-9.194	-9.203	-9.212	-9.222	-9.231	-9.240	-9.250	-9.259	-9.269	-9.279
	I F"	11.715	11.717	11.719	11.721	11.723	11.724	11.726	11.728	11.730	11.732
1.230	I F'	-9.289	-9.298	-9.308	-9.318	-9.328	-9.339	-9.349	-9.359	-9.370	-9.380
	I F"	11.734	11.735	11.737	11.739	11.741	11.743	11.745	11.746	11.748	11.750
1.231	I F'	-9.391	-9.401	-9.412	-9.423	-9.434	-9.445	-9.456	-9.467	-9.479	-9.490
	I F"	11.752	11.754	11.756	11.757	11.759	11.761	11.763	11.765	11.767	11.768
1.232	I F'	-9.502	-9.513	-9.525	-9.537	-9.549	-9.561	-9.573	-9.586	-9.598	-9.611
	I F"	11.770	11.772	11.774	11.776	11.778	11.779	11.781	11.783	11.785	11.787
1.233	I F'	-9.623	-9.636	-9.649	-9.662	-9.675	-9.689	-9.702	-9.716	-9.730	-9.744
	I F"	11.789	11.790	11.792	11.794	11.796	11.798	11.800	11.801	11.803	11.805
1.234	I F'	-9.758	-9.772	-9.786	-9.801	-9.816	-9.830	-9.846	-9.861	-9.876	-9.892
	I F"	11.807	11.809	11.811	11.813	11.814	11.816	11.818	11.820	11.822	11.824
1.235	I F'	-9.908	-9.924	-9.940	-9.956	-9.973	-9.990	-10.007	-10.024	-10.042	-10.060
	I F"	11.825	11.827	11.829	11.831	11.833	11.835	11.836	11.838	11.840	11.842
1.236	I F'	-10.078	-10.096	-10.115	-10.134	-10.153	-10.173	-10.193	-10.213	-10.233	-10.254
	I F"	11.844	11.846	11.848	11.849	11.851	11.853	11.855	11.857	11.859	11.860
1.237	I F'	-10.275	-10.297	-10.319	-10.341	-10.364	-10.387	-10.411	-10.435	-10.460	-10.485
	I F"	11.862	11.864	11.866	11.868	11.870	11.872	11.873	11.875	11.877	11.879
1.238	I F'	-10.510	-10.536	-10.563	-10.591	-10.619	-10.647	-10.677	-10.707	-10.737	-10.769
	I F"	11.881	11.883	11.884	11.886	11.888	11.890	11.892	11.894	11.896	11.897
1.239	I F'	-10.802	-10.835	-10.870	-10.905	-10.942	-10.979	-11.018	-11.058	-11.100	-11.143
	I F"	11.899	11.901	11.903	11.905	11.907	11.909	11.910	11.912	11.914	11.916
1.240	I F'	-11.188	-11.235	-11.283	-11.334	-11.387	-11.443	-11.501	-11.563	-11.628	-11.697
	I F"	11.918	11.920	11.921	11.923	11.925	11.927	11.929	11.931	11.933	11.934
1.241	I F'	-11.770	-11.848	-11.933	-12.024	-12.122	-12.231	-12.351	-12.485	-12.638	-12.815
	I F"	11.936	11.938	11.940	11.942	11.944	11.946	11.947	11.949	11.951	11.953
1.242	I F'	-13.026	-13.287	-13.629	-14.128	-15.073	-16.107	-17.447	-19.821	-23.429	-31.142
	I F"	11.955	11.957	11.959	11.960	11.962	8.549	8.550	8.552	8.553	8.554
1.243	I F'	-12.916	-12.730	-12.572	-12.434	-12.312	-12.203	-12.105	-12.014	-11.931	-11.855
	I F"	8.555	8.556	8.558	8.559	8.560	8.561	8.562	8.563	8.565	8.566
1.244	I F'	-11.783	-11.716	-11.653	-11.594	-11.538	-11.485	-11.435	-11.387	-11.341	-11.298
	I F"	8.567	8.568	8.569	8.571	8.572	8.573	8.574	8.575	8.577	8.578
1.245	I F'	-11.256	-11.215	-11.177	-11.140	-11.104	-11.069	-11.036	-11.003	-10.972	-10.942
	I F"	8.579	8.580	8.581	8.582	8.584	8.585	8.586	8.587	8.588	8.590
1.246	I F'	-10.913	-10.884	-10.856	-10.830	-10.803	-10.778	-10.753	-10.729	-10.705	-10.682
	I F"	8.591	8.592	8.593	8.594	8.596	8.598	8.599	8.600	8.601	8.602
1.247	I F'	-10.660	-10.638	-10.617	-10.596	-10.576	-10.556	-10.536	-10.517	-10.498	-10.480
	I F"	8.603	8.604	8.605	8.606	8.607	8.608	8.610	8.611	8.612	8.613
1.248	I F'	-10.462	-10.444	-10.427	-10.410	-10.393	-10.377	-10.361	-10.345	-10.330	-10.314
	I F"	8.614	8.616	8.617	8.618	8.619	8.620	8.622	8.623	8.624	8.625
1.249	I F'	-10.300	-10.285	-10.270	-10.256	-10.242	-10.229	-10.215	-10.202	-10.189	-10.176
	I F"	8.626	8.628	8.629	8.630	8.631	8.632	8.634	8.635	8.636	8.637
1.250	I F'	-10.163	-10.151	-10.138	-10.126	-10.114	-10.102	-10.091	-10.079	-10.068	-10.057
	I F"	8.638	8.639	8.641	8.642	8.643	8.644	8.645	8.647	8.648	8.649
1.251	I F'	-10.046	-10.035	-10.024	-10.014	-10.004	-9.993	-9.983	-9.973	-9.963	-9.954
	I F"	8.650	8.651	8.653	8.654	8.655	8.656	8.657	8.658	8.660	8.661
1.252	I F'	-9.944	-9.934	-9.925	-9.916	-9.907	-9.898	-9.889	-9.880	-9.871	-9.863
	I F"	8.662	8.663	8.664	8.666	8.667	8.668	8.669	8.670	8.672	8.673
1.253	I F'	-9.854	-9.846	-9.837	-9.829	-9.821	-9.813	-9.805	-9.797	-9.789	-9.782
	I F"	8.674	8.675	8.676	8.678	8.679	8.680	8.681	8.682	8.683	8.685
1.254	I F'	-9.774	-9.767	-9.759	-9.752	-9.744	-9.737	-9.730	-9.723	-9.716	-9.709
	I F"	8.686	8.687	8.688	8.689	8.691	8.692	8.693	8.694	8.695	8.697
1.255	I F'	-9.702	-9.696	-9.689	-9.682	-9.676	-9.669	-9.663	-9.656	-9.650	-9.644
	I F"	8.698	8.699	8.700	8.701	8.703	8.704	8.705	8.706	8.707	8.708
1.256	I F'	-9.638	-9.632	-9.625	-9.619	-9.614	-9.608	-9.602	-9.596	-9.590	-9.585
	I F"	8.710	8.711	8.712	8.713	8.714	8.716	8.717	8.718	8.719	8.722

ATOMIC SYMBOL = LU ATOMIC NUMBER = 71 L₂ ABSORPTION EDGE (1.19850 Å; 10.3443 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.185	I	F'	-9.129	-9.139	-9.148	-9.158	-9.168	-9.177	-9.187	-9.197	-9.207	-9.217
	I	F''	11.636	11.638	11.639	11.641	11.643	11.645	11.647	11.649	11.651	11.653
1.186	I	F'	-9.227	-9.237	-9.247	-9.257	-9.268	-9.278	-9.289	-9.300	-9.310	-9.321
	I	F''	11.655	11.657	11.658	11.660	11.662	11.664	11.666	11.668	11.670	11.672
1.187	I	F'	-9.332	-9.334	-9.334	-9.336	-9.337	-9.338	-9.400	-9.412	-9.423	-9.435
	I	F''	11.674	11.676	11.677	11.679	11.681	11.683	11.685	11.687	11.689	11.691
1.188	I	F'	-9.447	-9.459	-9.471	-9.484	-9.496	-9.509	-9.522	-9.534	-9.547	-9.560
	I	F''	11.693	11.695	11.696	11.698	11.700	11.702	11.704	11.706	11.708	11.710
1.189	I	F'	-9.574	-9.587	-9.601	-9.614	-9.628	-9.642	-9.656	-9.670	-9.685	-9.699
	I	F''	11.712	11.714	11.716	11.717	11.719	11.721	11.723	11.725	11.727	11.729
1.190	I	F'	-9.714	-9.729	-9.744	-9.760	-9.775	-9.791	-9.807	-9.823	-9.839	-9.856
	I	F''	11.731	11.733	11.735	11.737	11.738	11.740	11.742	11.744	11.746	11.748
1.191	I	F'	-9.872	-9.889	-9.907	-9.924	-9.942	-9.960	-9.978	-9.996	-10.015	-10.034
	I	F''	11.750	11.752	11.754	11.756	11.758	11.760	11.761	11.763	11.765	11.767
1.192	I	F'	-10.054	-10.073	-10.093	-10.114	-10.134	-10.155	-10.177	-10.198	-10.221	-10.243
	I	F''	11.769	11.771	11.773	11.775	11.777	11.779	11.781	11.783	11.784	11.786
1.193	I	F'	-10.266	-10.290	-10.313	-10.338	-10.363	-10.388	-10.414	-10.440	-10.467	-10.495
	I	F''	11.788	11.790	11.792	11.794	11.796	11.798	11.800	11.802	11.804	11.806
1.194	I	F'	-10.524	-10.553	-10.582	-10.613	-10.644	-10.676	-10.709	-10.743	-10.778	-10.815
	I	F''	11.808	11.809	11.811	11.813	11.815	11.817	11.819	11.821	11.823	11.825
1.195	I	F'	-10.852	-10.890	-10.930	-10.971	-11.014	-11.058	-11.104	-11.152	-11.202	-11.254
	I	F''	11.827	11.829	11.831	11.833	11.834	11.836	11.838	11.840	11.842	11.844
1.196	I	F'	-11.309	-11.366	-11.426	-11.490	-11.558	-11.629	-11.706	-11.788	-11.877	-11.973
	I	F''	11.846	11.848	11.850	11.852	11.854	11.856	11.858	11.860	11.862	11.863
1.197	I	F'	-12.078	-12.194	-12.324	-12.470	-12.639	-12.838	-13.081	-13.394	-13.833	-14.578
	I	F''	11.865	11.867	11.869	11.871	11.873	11.875	11.877	11.879	11.881	11.883
1.198	I	F'	-19.083	-14.599	-13.844	-13.405	-13.095	-12.855	-12.659	-12.499	-12.352	-12.226
	I	F''	11.885	8.482	8.483	8.484	8.485	8.486	8.488	8.489	8.490	8.491
1.199	I	F'	-12.114	-12.013	-11.921	-11.836	-11.758	-11.685	-11.617	-11.553	-11.493	-11.437
	I	F''	8.492	8.494	8.495	8.496	8.497	8.499	8.500	8.501	8.502	8.503
1.200	I	F'	-11.383	-11.332	-11.284	-11.237	-11.193	-11.151	-11.110	-11.071	-11.034	-10.998
	I	F''	8.505	8.506	8.507	8.508	8.510	8.511	8.512	8.513	8.514	8.516
1.201	I	F'	-10.963	-10.929	-10.897	-10.865	-10.835	-10.805	-10.777	-10.749	-10.722	-10.695
	I	F''	8.517	8.518	8.519	8.521	8.522	8.523	8.524	8.525	8.527	8.528
1.202	I	F'	-10.670	-10.645	-10.621	-10.597	-10.574	-10.552	-10.530	-10.508	-10.487	-10.467
	I	F''	8.529	8.530	8.532	8.533	8.534	8.535	8.536	8.538	8.539	8.540
1.203	I	F'	-10.447	-10.427	-10.408	-10.389	-10.371	-10.353	-10.335	-10.318	-10.301	-10.284
	I	F''	8.541	8.542	8.544	8.545	8.546	8.547	8.549	8.550	8.551	8.552
1.204	I	F'	-10.268	-10.251	-10.236	-10.220	-10.205	-10.190	-10.175	-10.161	-10.147	-10.133
	I	F''	8.553	8.555	8.556	8.557	8.558	8.560	8.561	8.562	8.563	8.564
1.205	I	F'	-10.119	-10.105	-10.092	-10.079	-10.066	-10.053	-10.041	-10.029	-10.016	-10.004
	I	F''	8.566	8.567	8.568	8.569	8.571	8.572	8.573	8.574	8.575	8.577
1.206	I	F'	-9.993	-9.981	-9.970	-9.958	-9.947	-9.936	-9.925	-9.915	-9.904	-9.894
	I	F''	8.578	8.579	8.580	8.582	8.583	8.584	8.585	8.586	8.588	8.589
1.207	I	F'	-9.883	-9.873	-9.863	-9.853	-9.844	-9.834	-9.825	-9.815	-9.806	-9.797
	I	F''	8.590	8.591	8.593	8.594	8.595	8.596	8.597	8.599	8.600	8.601
1.208	I	F'	-9.788	-9.779	-9.770	-9.761	-9.753	-9.744	-9.736	-9.727	-9.719	-9.711
	I	F''	8.602	8.604	8.605	8.606	8.607	8.608	8.610	8.611	8.612	8.613
1.209	I	F'	-9.703	-9.695	-9.687	-9.679	-9.672	-9.664	-9.657	-9.649	-9.642	-9.634
	I	F''	8.615	8.616	8.617	8.618	8.620	8.621	8.622	8.623	8.624	8.626
1.210	I	F'	-9.627	-9.620	-9.613	-9.606	-9.599	-9.592	-9.586	-9.579	-9.572	-9.566
	I	F''	8.627	8.628	8.629	8.631	8.632	8.633	8.634	8.635	8.637	8.638
1.211	I	F'	-9.559	-9.553	-9.546	-9.540	-9.534	-9.528	-9.522	-9.516	-9.510	-9.504
	I	F''	8.639	8.640	8.642	8.643	8.644	8.645	8.646	8.648	8.649	8.650
1.212	I	F'	-9.498	-9.492	-9.486	-9.480	-9.475	-9.469	-9.464	-9.458	-9.453	-9.447
	I	F''	8.651	8.653	8.654	8.655	8.656	8.657	8.659	8.660	8.661	8.662

ATOMIC SYMBOL = HF ATOMIC NUMBER = 72 L₂ ABSORPTION EDGE (1.15480 Å; 10.7357 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.141	I	F'	-9.006	-9.015	-9.025	-9.034	-9.043	-9.052	-9.062	-9.071	-9.081	-9.090
	I	F''	11.544	11.546	11.548	11.550	11.552	11.554	11.556	11.558	11.560	11.562
1.142	I	F'	-9.100	-9.110	-9.119	-9.129	-9.139	-9.149	-9.159	-9.170	-9.180	-9.190
	I	F''	11.564	11.566	11.568	11.570	11.572	11.574	11.576	11.578	11.580	11.581
1.143	I	F'	-9.201	-9.211	-9.222	-9.233	-9.244	-9.254	-9.266	-9.277	-9.288	-9.299
	I	F''	11.583	11.585	11.587	11.589	11.591	11.593	11.595	11.597	11.599	11.601
1.144	I	F'	-9.311	-9.322	-9.334	-9.346	-9.357	-9.369	-9.382	-9.394	-9.406	-9.419
	I	F''	11.603	11.605	11.607	11.609	11.611	11.613	11.615	11.617	11.619	11.621
1.145	I	F'	-9.431	-9.444	-9.457	-9.470	-9.483	-9.496	-9.510	-9.523	-9.537	-9.551
	I	F''	11.623	11.625	11.627	11.629	11.631	11.633	11.635	11.637	11.639	11.641
1.146	I	F'	-9.565	-9.579	-9.593	-9.608	-9.622	-9.637	-9.652	-9.667	-9.683	-9.698
	I	F''	11.643	11.645	11.647	11.649	11.651	11.653	11.655	11.657	11.659	11.661
1.147	I	F'	-9.714	-9.730	-9.746	-9.763	-9.779	-9.796	-9.813	-9.831	-9.848	-9.866
	I	F''	11.663	11.665	11.666	11.668	11.670	11.672	11.674	11.676	11.678	11.680
1.148	I	F'	-9.884	-9.903	-9.921	-9.940	-9.959	-9.979	-9.999	-10.019	-10.040	-10.060
	I	F''	11.682	11.684	11.686	11.688	11.690	11.692	11.694	11.696	11.698	11.700
1.149	I	F'	-10.082	-10.103	-10.125	-10.148	-10.171	-10.194	-10.218	-10.242	-10.267	-10.292
	I	F''	11.702	11.704	11.706	11.708	11.710	11.712	11.714	11.716	11.718	11.720
1.150	I	F'	-10.318	-10.344	-10.371	-10.398	-10.427	-10.455	-10.485	-10.515	-10.546	-10.578
	I	F''	11.722	11.724	11.726	11.728	11.730	11.732	11.734	11.736	11.738	11.740
1.151	I	F'	-10.611	-10.645	-10.680	-10.716	-10.753	-10.791	-10.831	-10.871	-10.914	-10.958
	I	F''	11.742	11.744	11.746	11.748	11.750	11.752	11.754	11.756	11.758	11.760
1.152	I	F'	-11.003	-11.051	-11.101	-11.152	-11.207	-11.264	-11.324	-11.387	-11.454	-11.525
	I	F''	11.762	11.764	11.766	11.768	11.770	11.772	11.774	11.776	11.778	11.780
1.153	I	F'	-11.601	-11.683	-11.771	-11.866	-11.970	-12.085	-12.213	-12.358	-12.525	-12.722
	I	F''	11.782	11.784	11.786	11.788	11.790	11.792	11.794	11.796	11.798	11.800
1.154	I	F'	-12.961	-13.268	-13.695	-14.410	-17.348	-14.549	-13.765	-13.318	-13.004	-12.762
	I	F''	11.802	11.804	11.806	11.808	11.810	8.420	8.421	8.423	8.424	8.425
1.155	I	F'	-12.565	-12.400	-12.256	-12.130	-12.018	-11.917	-11.824	-11.740	-11.661	-11.589
	I	F''	8.426	8.428	8.429	8.430	8.431	8.433	8.434	8.435	8.437	8.438
1.156	I	F'	-11.521	-11.457	-11.397	-11.340	-11.287	-11.236	-11.188	-11.141	-11.097	-11.055
	I	F''	8.439	8.440	8.442	8.443	8.444	8.445	8.447	8.448	8.449	8.450
1.157	I	F'	-11.015	-10.976	-10.938	-10.902	-10.867	-10.834	-10.801	-10.770	-10.740	-10.710
	I	F''	8.452	8.453	8.454	8.455	8.457	8.458	8.459	8.460	8.462	8.463
1.158	I	F'	-10.681	-10.654	-10.627	-10.601	-10.575	-10.550	-10.526	-10.502	-10.479	-10.457
	I	F''	8.464	8.466	8.467	8.468	8.469	8.471	8.472	8.473	8.474	8.476
1.159	I	F'	-10.435	-10.414	-10.393	-10.372	-10.352	-10.333	-10.314	-10.295	-10.276	-10.258
	I	F''	8.477	8.478	8.479	8.481	8.482	8.483	8.484	8.486	8.487	8.488
1.160	I	F'	-10.241	-10.224	-10.207	-10.190	-10.174	-10.158	-10.142	-10.126	-10.111	-10.096
	I	F''	8.490	8.491	8.492	8.493	8.495	8.496	8.497	8.498	8.500	8.501
1.161	I	F'	-10.082	-10.067	-10.053	-10.039	-10.025	-10.012	-9.999	-9.986	-9.973	-9.960
	I	F''	8.502	8.503	8.505	8.506	8.508	8.508	8.510	8.511	8.512	8.513
1.162	I	F'	-9.947	-9.935	-9.923	-9.911	-9.899	-9.888	-9.876	-9.865	-9.854	-9.843
	I	F''	8.515	8.516	8.517	8.519	8.520	8.521	8.522	8.524	8.525	8.526
1.163	I	F'	-9.832	-9.822	-9.811	-9.801	-9.790	-9.780	-9.770	-9.761	-9.751	-9.741
	I	F''	8.527	8.529	8.530	8.531	8.532	8.534	8.535	8.536	8.538	8.539
1.164	I	F'	-9.732	-9.722	-9.713	-9.704	-9.695	-9.686	-9.677	-9.669	-9.660	-9.652
	I	F''	8.540	8.541	8.543	8.544	8.545	8.546	8.548	8.549	8.550	8.551
1.165	I	F'	-9.643	-9.635	-9.627	-9.619	-9.611	-9.603	-9.595	-9.587	-9.579	-9.572
	I	F''	8.553	8.554	8.555	8.556	8.558	8.559	8.560	8.562	8.563	8.564
1.166	I	F'	-9.564	-9.557	-9.550	-9.542	-9.535	-9.528	-9.521	-9.514	-9.507	-9.500
	I	F''	8.565	8.567	8.568	8.569	8.570	8.572	8.573	8.574	8.575	8.577
1.167	I	F'	-9.494	-9.487	-9.480	-9.474	-9.467	-9.461	-9.455	-9.448	-9.442	-9.436
	I	F''	8.578	8.579	8.581	8.582	8.583	8.584	8.586	8.587	8.588	8.589
1.168	I	F'	-9.430	-9.424	-9.418	-9.412	-9.406	-9.400	-9.394	-9.389	-9.383	-9.377
	I	F''	8.591	8.592	8.593	8.595	8.596	8.597	8.598	8.600	8.601	8.602

ATOMIC SYMBOL = TA		ATOMIC NUMBER = 73		L ₂ ABSORPTION EDGE (1.11370 Å; 11.1319 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.100	I F'	-8.952	-8.960	-8.969	-8.978	-8.987	-8.996	-9.005	-9.014	-9.023	-9.032
	I F"	11.376	11.378	11.380	11.381	11.383	11.385	11.387	11.388	11.390	11.392
1.101	I F'	-9.041	-9.050	-9.060	-9.069	-9.079	-9.088	-9.098	-9.108	-9.118	-9.128
	I F"	11.394	11.395	11.397	11.399	11.401	11.402	11.404	11.406	11.408	11.409
1.102	I F'	-9.138	-9.148	-9.158	-9.169	-9.179	-9.189	-9.200	-9.211	-9.222	-9.232
	I F"	11.411	11.413	11.415	11.416	11.418	11.420	11.422	11.423	11.425	11.427
1.103	I F'	-9.243	-9.255	-9.266	-9.277	-9.288	-9.300	-9.312	-9.323	-9.335	-9.347
	I F"	11.429	11.430	11.432	11.434	11.436	11.437	11.439	11.441	11.443	11.444
1.104	I F'	-9.359	-9.372	-9.384	-9.396	-9.409	-9.422	-9.435	-9.448	-9.461	-9.474
	I F"	11.446	11.448	11.450	11.452	11.453	11.455	11.457	11.459	11.460	11.462
1.105	I F'	-9.488	-9.502	-9.515	-9.529	-9.544	-9.558	-9.572	-9.587	-9.602	-9.617
	I F"	11.464	11.466	11.467	11.469	11.471	11.473	11.474	11.476	11.478	11.480
1.106	I F'	-9.632	-9.648	-9.663	-9.679	-9.695	-9.712	-9.728	-9.745	-9.762	-9.779
	I F"	11.481	11.483	11.485	11.487	11.488	11.490	11.492	11.494	11.495	11.497
1.107	I F'	-9.797	-9.815	-9.833	-9.851	-9.870	-9.889	-9.908	-9.928	-9.948	-9.968
	I F"	11.499	11.501	11.503	11.504	11.506	11.508	11.510	11.511	11.513	11.515
1.108	I F'	-9.989	-10.010	-10.031	-10.053	-10.076	-10.098	-10.121	-10.145	-10.169	-10.194
	I F"	11.517	11.518	11.520	11.522	11.524	11.525	11.527	11.529	11.531	11.532
1.109	I F'	-10.219	-10.245	-10.271	-10.298	-10.326	-10.355	-10.384	-10.414	-10.444	-10.476
	I F"	11.534	11.536	11.538	11.540	11.541	11.543	11.545	11.547	11.548	11.550
1.110	I F'	-10.508	-10.542	-10.576	-10.612	-10.649	-10.687	-10.726	-10.767	-10.809	-10.853
	I F"	11.552	11.554	11.555	11.557	11.559	11.561	11.562	11.564	11.566	11.568
1.111	I F'	-10.899	-10.947	-10.997	-11.049	-11.105	-11.163	-11.224	-11.289	-11.358	-11.432
	I F"	11.569	11.571	11.573	11.575	11.577	11.578	11.580	11.582	11.584	11.585
1.112	I F'	-11.511	-11.597	-11.693	-11.792	-11.905	-12.031	-12.174	-12.340	-12.536	-12.778
	I F"	11.587	11.589	11.591	11.592	11.594	11.596	11.598	11.599	11.601	11.603
1.113	I F'	-13.092	-13.545	-14.361	-16.045	-14.013	-13.373	-12.982	-12.700	-12.479	-12.297
	I F"	11.605	11.607	11.608	8.355	8.356	8.358	8.359	8.360	8.361	8.363
1.114	I F'	-12.144	-12.010	-11.892	-11.787	-11.692	-11.605	-11.525	-11.450	-11.382	-11.317
	I F"	8.364	8.365	8.367	8.368	8.369	8.370	8.372	8.373	8.374	8.376
1.115	I F'	-11.257	-11.200	-11.146	-11.095	-11.047	-11.000	-10.956	-10.914	-10.874	-10.835
	I F"	8.377	8.378	8.380	8.381	8.382	8.383	8.385	8.386	8.387	8.389
1.116	I F'	-10.798	-10.762	-10.728	-10.694	-10.662	-10.631	-10.601	-10.572	-10.544	-10.516
	I F"	8.390	8.391	8.393	8.394	8.395	8.396	8.398	8.399	8.400	8.402
1.117	I F'	-10.490	-10.464	-10.439	-10.414	-10.390	-10.367	-10.345	-10.322	-10.301	-10.280
	I F"	8.403	8.404	8.405	8.407	8.408	8.409	8.411	8.412	8.413	8.415
1.118	I F'	-10.259	-10.239	-10.219	-10.200	-10.181	-10.163	-10.145	-10.127	-10.110	-10.093
	I F"	8.416	8.417	8.418	8.420	8.421	8.422	8.424	8.425	8.426	8.428
1.119	I F'	-10.076	-10.060	-10.044	-10.028	-10.013	-9.998	-9.983	-9.968	-9.954	-9.939
	I F"	8.429	8.430	8.431	8.433	8.434	8.435	8.437	8.438	8.439	8.441
1.120	I F'	-9.926	-9.912	-9.898	-9.885	-9.872	-9.859	-9.847	-9.834	-9.822	-9.810
	I F"	8.442	8.443	8.444	8.446	8.447	8.448	8.450	8.451	8.452	8.454
1.121	I F'	-9.798	-9.786	-9.775	-9.764	-9.752	-9.741	-9.730	-9.720	-9.709	-9.699
	I F"	8.455	8.456	8.457	8.459	8.460	8.461	8.463	8.464	8.465	8.467
1.122	I F'	-9.688	-9.678	-9.668	-9.658	-9.648	-9.639	-9.629	-9.620	-9.611	-9.601
	I F"	8.468	8.469	8.470	8.472	8.473	8.474	8.476	8.477	8.478	8.480
1.123	I F'	-9.592	-9.583	-9.575	-9.566	-9.557	-9.549	-9.540	-9.532	-9.524	-9.515
	I F"	8.481	8.482	8.483	8.485	8.486	8.487	8.489	8.490	8.491	8.493
1.124	I F'	-9.507	-9.500	-9.492	-9.484	-9.476	-9.469	-9.461	-9.454	-9.446	-9.439
	I F"	8.494	8.495	8.497	8.498	8.499	8.500	8.502	8.503	8.504	8.506
1.125	I F'	-9.432	-9.425	-9.418	-9.411	-9.404	-9.397	-9.390	-9.384	-9.377	-9.370
	I F"	8.507	8.508	8.510	8.511	8.512	8.513	8.515	8.516	8.517	8.519
1.126	I F'	-9.364	-9.358	-9.351	-9.345	-9.339	-9.332	-9.326	-9.320	-9.314	-9.308
	I F"	8.520	8.521	8.523	8.524	8.525	8.526	8.528	8.529	8.530	8.532
1.127	I F'	-9.303	-9.297	-9.291	-9.285	-9.280	-9.274	-9.269	-9.263	-9.258	-9.252
	I F"	8.533	8.534	8.536	8.537	8.538	8.540	8.541	8.542	8.543	8.545

ATOMIC SYMBOL = W		ATOMIC NUMBER = 74		L ₂ ABSORPTION EDGE (1.07450 Å; 11.5381 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.061	I F'	-8.879	-8.888	-8.896	-8.905	-8.914	-8.923	-8.932	-8.942	-8.951	-8.960
	I F"	11.303	11.305	11.307	11.309	11.310	11.312	11.314	11.316	11.318	11.320
1.062	I F'	-8.970	-8.979	-8.989	-8.998	-9.008	-9.018	-9.028	-9.038	-9.048	-9.058
	I F"	11.321	11.323	11.325	11.327	11.329	11.331	11.332	11.334	11.336	11.338
1.063	I F'	-9.068	-9.079	-9.089	-9.100	-9.110	-9.121	-9.132	-9.143	-9.154	-9.165
	I F"	11.340	11.342	11.343	11.345	11.347	11.349	11.351	11.353	11.354	11.356
1.064	I F'	-9.176	-9.188	-9.199	-9.211	-9.222	-9.234	-9.246	-9.258	-9.270	-9.283
	I F"	11.358	11.360	11.362	11.364	11.365	11.367	11.369	11.371	11.373	11.375
1.065	I F'	-9.295	-9.308	-9.321	-9.333	-9.346	-9.360	-9.373	-9.386	-9.400	-9.414
	I F"	11.376	11.378	11.380	11.382	11.384	11.386	11.387	11.389	11.391	11.393
1.066	I F'	-9.428	-9.442	-9.456	-9.471	-9.485	-9.500	-9.515	-9.531	-9.546	-9.562
	I F"	11.395	11.397	11.398	11.400	11.402	11.404	11.406	11.408	11.409	11.411
1.067	I F'	-9.578	-9.594	-9.610	-9.627	-9.643	-9.661	-9.678	-9.695	-9.713	-9.731
	I F"	11.413	11.415	11.417	11.419	11.420	11.422	11.424	11.426	11.428	11.430
1.068	I F'	-9.750	-9.768	-9.787	-9.807	-9.826	-9.846	-9.867	-9.888	-9.909	-9.930
	I F"	11.431	11.433	11.435	11.437	11.439	11.441	11.442	11.444	11.446	11.448
1.069	I F'	-9.952	-9.975	-9.997	-10.021	-10.044	-10.069	-10.093	-10.119	-10.145	-10.171
	I F"	11.450	11.452	11.453	11.455	11.457	11.459	11.461	11.463	11.465	11.466
1.070	I F'	-10.198	-10.226	-10.255	-10.284	-10.314	-10.345	-10.377	-10.410	-10.443	-10.478
	I F"	11.468	11.470	11.472	11.474	11.476	11.477	11.479	11.481	11.483	11.485
1.071	I F'	-10.514	-10.551	-10.590	-10.629	-10.671	-10.713	-10.758	-10.804	-10.853	-10.904
	I F"	11.487	11.488	11.490	11.492	11.494	11.496	11.498	11.500	11.501	11.503
1.072	I F'	-10.957	-11.013	-11.072	-11.135	-11.201	-11.272	-11.347	-11.429	-11.517	-11.613
	I F"	11.505	11.507	11.509	11.511	11.512	11.514	11.516	11.518	11.520	11.522
1.073	I F'	-11.718	-11.835	-11.967	-12.117	-12.292	-12.503	-12.767	-13.121	-13.660	-14.847
	I F"	11.523	11.525	11.527	11.529	11.531	11.533	11.535	11.536	11.538	11.540
1.074	I F'	-14.693	-13.607	-13.092	-12.750	-12.495	-12.291	-12.122	-11.977	-11.850	-11.737
	I F"	8.295	8.296	8.297	8.299	8.300	8.301	8.302	8.303	8.304	8.307
1.075	I F'	-11.636	-11.544	-11.460	-11.383	-11.311	-11.244	-11.181	-11.122	-11.066	-11.014
	I F"	8.308	8.310	8.311	8.312	8.314	8.315	8.316	8.318	8.319	8.320
1.076	I F'	-10.964	-10.917	-10.871	-10.828	-10.787	-10.747	-10.709	-10.673	-10.637	-10.603
	I F"	8.322	8.323	8.324	8.326	8.327	8.328	8.330	8.331	8.332	8.334
1.077	I F'	-10.571	-10.539	-10.508	-10.479	-10.450	-10.422	-10.395	-10.369	-10.343	-10.318
	I F"	8.335	8.336	8.338	8.339	8.340	8.342	8.343	8.344	8.346	8.347
1.078	I F'	-10.294	-10.271	-10.248	-10.225	-10.203	-10.182	-10.161	-10.141	-10.121	-10.102
	I F"	8.348	8.350	8.351	8.352	8.354	8.355	8.356	8.358	8.359	8.360
1.079	I F'	-10.083	-10.064	-10.046	-10.028	-10.010	-9.993	-9.976	-9.960	-9.944	-9.928
	I F"	8.362	8.363	8.364	8.366	8.367	8.368	8.370	8.371	8.372	8.374
1.080	I F'	-9.912	-9.897	-9.882	-9.867	-9.852	-9.838	-9.824	-9.810	-9.797	-9.783
	I F"	8.375	8.376	8.378	8.379	8.381	8.382	8.383	8.385	8.386	8.387
1.081	I F'	-9.770	-9.757	-9.745	-9.732	-9.720	-9.708	-9.696	-9.684	-9.672	-9.661
	I F"	8.389	8.390	8.391	8.393	8.394	8.395	8.397	8.398	8.399	8.401
1.082	I F'	-9.650	-9.638	-9.627	-9.617	-9.606	-9.595	-9.585	-9.575	-9.565	-9.555
	I F"	8.402	8.403	8.405	8.406	8.407	8.409	8.410	8.411	8.413	8.414
1.083	I F'	-9.545	-9.535	-9.526	-9.516	-9.507	-9.498	-9.489	-9.480	-9.471	-9.462
	I F"	8.415	8.417	8.418	8.419	8.421	8.422	8.423	8.425	8.426	8.428
1.084	I F'	-9.453	-9.445	-9.436	-9.428	-9.419	-9.411	-9.403	-9.395	-9.387	-9.380
	I F"	8.429	8.430	8.432	8.433	8.434	8.436	8.437	8.438	8.440	8.441
1.085	I F'	-9.372	-9.364	-9.357	-9.349	-9.342	-9.334	-9.327	-9.320	-9.313	-9.306
	I F"	8.442	8.444	8.445	8.446	8.448	8.449	8.450	8.452	8.453	8.454
1.086	I F'	-9.299	-9.292	-9.285	-9.279	-9.272	-9.266	-9.259	-9.253	-9.246	-9.240
	I F"	8.456	8.457	8.458	8.460	8.461	8.462	8.464	8.465	8.467	8.468
1.087	I F'	-9.234	-9.227	-9.221	-9.215	-9.209	-9.203	-9.197	-9.192	-9.186	-9.180
	I F"	8.469	8.471	8.472	8.473	8.475	8.476	8.477	8.479	8.480	8.481
1.088	I F'	-9.174	-9.169	-9.163	-9.158	-9.152	-9.147	-9.142	-9.136	-9.131	-9.126
	I F"	8.483	8.484	8.485	8.487	8.488	8.489	8.491	8.492	8.493	8.494

ATOMIC SYMBOL = RE		ATOMIC NUMBER = 75		L ₂ ABSORPTION EDGE (1.03710 Å; 11.9541 KEV)								
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	
1.023	I	F'	-8.737	-8.746	-8.754	-8.762	-8.770	-8.779	-8.787	-8.796	-8.804	-8.813
	I	F"	11.201	11.203	11.205	11.207	11.209	11.211	11.213	11.214	11.216	11.218
1.024	I	F'	-8.822	-8.830	-8.839	-8.848	-8.857	-8.866	-8.876	-8.885	-8.894	-8.903
	I	F"	11.220	11.222	11.224	11.226	11.227	11.229	11.231	11.233	11.235	11.237
1.025	I	F'	-8.913	-8.922	-8.932	-8.942	-8.952	-8.962	-8.972	-8.982	-8.992	-9.002
	I	F"	11.239	11.241	11.242	11.244	11.246	11.248	11.250	11.252	11.254	11.255
1.026	I	F'	-9.012	-9.023	-9.033	-9.044	-9.055	-9.066	-9.077	-9.088	-9.099	-9.110
	I	F"	11.257	11.259	11.261	11.263	11.265	11.267	11.269	11.270	11.272	11.274
1.027	I	F'	-9.122	-9.133	-9.145	-9.156	-9.168	-9.180	-9.192	-9.205	-9.217	-9.230
	I	F"	11.276	11.278	11.280	11.282	11.283	11.285	11.287	11.289	11.291	11.293
1.028	I	F'	-9.242	-9.255	-9.268	-9.281	-9.294	-9.308	-9.321	-9.335	-9.349	-9.363
	I	F"	11.295	11.297	11.298	11.300	11.302	11.304	11.306	11.308	11.310	11.311
1.029	I	F'	-9.377	-9.392	-9.406	-9.421	-9.436	-9.451	-9.467	-9.482	-9.498	-9.514
	I	F"	11.313	11.315	11.317	11.319	11.321	11.323	11.325	11.326	11.328	11.330
1.030	I	F'	-9.531	-9.547	-9.564	-9.581	-9.598	-9.616	-9.633	-9.652	-9.670	-9.689
	I	F"	11.332	11.334	11.336	11.338	11.340	11.341	11.343	11.345	11.347	11.349
1.031	I	F'	-9.708	-9.727	-9.747	-9.767	-9.787	-9.808	-9.829	-9.850	-9.872	-9.895
	I	F"	11.351	11.353	11.355	11.356	11.358	11.360	11.362	11.364	11.366	11.368
1.032	I	F'	-9.917	-9.941	-9.965	-9.989	-10.014	-10.039	-10.065	-10.092	-10.119	-10.147
	I	F"	11.370	11.371	11.373	11.375	11.377	11.379	11.381	11.383	11.384	11.386
1.033	I	F'	-10.176	-10.205	-10.235	-10.266	-10.298	-10.331	-10.365	-10.400	-10.436	-10.474
	I	F"	11.388	11.390	11.392	11.394	11.396	11.398	11.399	11.401	11.403	11.405
1.034	I	F'	-10.512	-10.552	-10.594	-10.637	-10.683	-10.730	-10.779	-10.830	-10.884	-10.941
	I	F"	11.407	11.409	11.411	11.413	11.414	11.416	11.418	11.420	11.422	11.424
1.035	I	F'	-11.001	-11.065	-11.133	-11.205	-11.282	-11.366	-11.457	-11.556	-11.665	-11.787
	I	F"	11.426	11.428	11.429	11.431	11.433	11.435	11.437	11.439	11.441	11.443
1.036	I	F'	-11.925	-12.084	-12.272	-12.501	-12.794	-13.205	-13.897	-17.111	-13.983	-13.250
	I	F"	11.445	11.446	11.448	11.450	11.452	11.454	11.456	11.458	8.229	8.231
1.037	I	F'	-12.828	-12.530	-12.301	-12.114	-11.956	-11.820	-11.700	-11.593	-11.496	-11.408
	I	F"	8.232	8.233	8.235	8.236	8.237	8.239	8.240	8.242	8.243	8.244
1.038	I	F'	-11.328	-11.253	-11.184	-11.119	-11.058	-11.001	-10.947	-10.895	-10.847	-10.801
	I	F"	8.246	8.247	8.248	8.250	8.251	8.253	8.254	8.255	8.257	8.258
1.039	I	F'	-10.756	-10.714	-10.674	-10.635	-10.598	-10.562	-10.527	-10.494	-10.462	-10.431
	I	F"	8.259	8.261	8.262	8.264	8.265	8.266	8.268	8.269	8.270	8.272
1.040	I	F'	-10.401	-10.372	-10.343	-10.316	-10.289	-10.264	-10.238	-10.214	-10.190	-10.167
	I	F"	8.273	8.275	8.276	8.277	8.279	8.280	8.281	8.283	8.284	8.286
1.041	I	F'	-10.144	-10.122	-10.101	-10.080	-10.059	-10.039	-10.019	-10.000	-9.981	-9.963
	I	F"	8.287	8.288	8.290	8.291	8.292	8.294	8.295	8.297	8.298	8.299
1.042	I	F'	-9.945	-9.927	-9.910	-9.893	-9.876	-9.860	-9.844	-9.828	-9.813	-9.798
	I	F"	8.301	8.302	8.303	8.305	8.306	8.308	8.309	8.310	8.312	8.313
1.043	I	F'	-9.783	-9.768	-9.754	-9.740	-9.726	-9.712	-9.699	-9.686	-9.673	-9.660
	I	F"	8.314	8.316	8.317	8.319	8.320	8.321	8.323	8.324	8.325	8.327
1.044	I	F'	-9.647	-9.635	-9.623	-9.611	-9.599	-9.587	-9.575	-9.564	-9.553	-9.542
	I	F"	8.328	8.330	8.331	8.332	8.334	8.335	8.336	8.338	8.339	8.341
1.045	I	F'	-9.531	-9.520	-9.510	-9.499	-9.489	-9.479	-9.469	-9.459	-9.449	-9.440
	I	F"	8.342	8.343	8.345	8.346	8.348	8.349	8.350	8.352	8.353	8.354
1.046	I	F'	-9.430	-9.421	-9.411	-9.402	-9.393	-9.384	-9.376	-9.367	-9.358	-9.350
	I	F"	8.356	8.357	8.359	8.360	8.361	8.363	8.364	8.365	8.367	8.368
1.047	I	F'	-9.341	-9.333	-9.325	-9.317	-9.309	-9.301	-9.293	-9.285	-9.277	-9.270
	I	F"	8.370	8.371	8.372	8.374	8.375	8.376	8.378	8.379	8.381	8.382
1.048	I	F'	-9.262	-9.255	-9.248	-9.240	-9.233	-9.226	-9.219	-9.212	-9.205	-9.198
	I	F"	8.383	8.385	8.386	8.388	8.389	8.390	8.392	8.393	8.394	8.396
1.049	I	F'	-9.192	-9.185	-9.178	-9.172	-9.165	-9.159	-9.153	-9.146	-9.140	-9.134
	I	F"	8.397	8.399	8.400	8.401	8.403	8.404	8.406	8.407	8.408	8.410
1.050	I	F'	-9.128	-9.122	-9.116	-9.110	-9.104	-9.098	-9.093	-9.087	-9.081	-9.076
	I	F"	8.411	8.412	8.414	8.415	8.417	8.418	8.419	8.421	8.422	8.423

ATOMIC SYMBOL = OS		ATOMIC NUMBER = 76		L ₂ ABSORPTION EDGE (1.00140 Å; 12.3803 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.987	I	-8.625	-8.633	-8.641	-8.649	-8.657	-8.665	-8.673	-8.681	-8.690	-8.698
	F'	11.113	11.114	11.116	11.118	11.120	11.122	11.124	11.126	11.128	11.130
0.988	I	-8.706	-8.715	-8.723	-8.732	-8.741	-8.749	-8.758	-8.767	-8.776	-8.785
	F'	11.132	11.134	11.136	11.138	11.139	11.141	11.143	11.145	11.147	11.149
0.989	I	-8.794	-8.803	-8.813	-8.822	-8.831	-8.841	-8.850	-8.860	-8.870	-8.880
	F'	11.151	11.153	11.155	11.157	11.159	11.161	11.162	11.164	11.166	11.168
0.990	I	-8.890	-8.900	-8.910	-8.920	-8.930	-8.941	-8.951	-8.962	-8.973	-8.983
	F'	11.170	11.172	11.174	11.176	11.178	11.180	11.182	11.184	11.186	11.187
0.991	I	-8.994	-9.005	-9.017	-9.028	-9.039	-9.051	-9.062	-9.074	-9.086	-9.098
	F'	11.189	11.191	11.193	11.195	11.197	11.199	11.201	11.203	11.205	11.207
0.992	I	-9.110	-9.122	-9.135	-9.147	-9.160	-9.173	-9.186	-9.199	-9.212	-9.226
	F'	11.209	11.211	11.213	11.214	11.216	11.218	11.220	11.222	11.224	11.226
0.993	I	-9.239	-9.253	-9.267	-9.281	-9.295	-9.310	-9.324	-9.339	-9.354	-9.370
	F'	11.228	11.230	11.232	11.234	11.236	11.238	11.239	11.241	11.243	11.245
0.994	I	-9.385	-9.401	-9.417	-9.433	-9.449	-9.466	-9.483	-9.500	-9.517	-9.535
	F'	11.247	11.249	11.251	11.253	11.255	11.257	11.259	11.261	11.263	11.265
0.995	I	-9.553	-9.571	-9.589	-9.608	-9.627	-9.647	-9.667	-9.687	-9.707	-9.728
	F'	11.266	11.268	11.270	11.272	11.274	11.276	11.278	11.280	11.282	11.284
0.996	I	-9.750	-9.771	-9.794	-9.816	-9.839	-9.863	-9.887	-9.911	-9.937	-9.962
	F'	11.286	11.288	11.290	11.292	11.294	11.295	11.297	11.299	11.301	11.303
0.997	I	-9.989	-10.016	-10.043	-10.072	-10.101	-10.131	-10.162	-10.193	-10.226	-10.259
	F'	11.305	11.307	11.309	11.311	11.313	11.315	11.317	11.319	11.321	11.322
0.998	I	-10.294	-10.330	-10.367	-10.405	-10.445	-10.486	-10.529	-10.573	-10.620	-10.668
	F'	11.324	11.326	11.328	11.330	11.332	11.334	11.336	11.338	11.340	11.342
0.999	I	-10.719	-10.773	-10.829	-10.888	-10.951	-11.018	-11.089	-11.165	-11.247	-11.336
	F'	11.344	11.346	11.348	11.350	11.351	11.353	11.355	11.357	11.359	11.361
1.000	I	-11.433	-11.540	-11.660	-11.794	-11.949	-12.131	-12.351	-12.630	-13.015	-13.635
	F'	11.363	11.365	11.367	11.369	11.371	11.373	11.375	11.377	11.379	11.381
1.001	I	-15.449	-14.052	-13.223	-12.772	-12.462	-12.224	-12.033	-11.872	-11.733	-11.611
	F'	11.382	8.168	8.170	8.171	8.173	8.174	8.175	8.177	8.178	8.180
1.002	I	-11.503	-11.405	-11.316	-11.235	-11.160	-11.090	-11.024	-10.963	-10.906	-10.851
	F'	8.181	8.183	8.184	8.185	8.187	8.188	8.190	8.191	8.192	8.194
1.003	I	-10.800	-10.751	-10.705	-10.661	-10.618	-10.578	-10.539	-10.501	-10.466	-10.431
	F'	8.195	8.197	8.198	8.200	8.201	8.202	8.204	8.205	8.207	8.208
1.004	I	-10.398	-10.365	-10.334	-10.304	-10.275	-10.247	-10.219	-10.193	-10.167	-10.142
	F'	8.209	8.211	8.212	8.214	8.215	8.217	8.218	8.219	8.221	8.222
1.005	I	-10.117	-10.093	-10.070	-10.047	-10.025	-10.004	-9.983	-9.962	-9.942	-9.923
	F'	8.224	8.225	8.226	8.228	8.229	8.231	8.232	8.234	8.235	8.236
1.006	I	-9.903	-9.885	-9.866	-9.848	-9.831	-9.813	-9.796	-9.780	-9.763	-9.747
	F'	8.238	8.239	8.241	8.242	8.243	8.245	8.246	8.248	8.249	8.251
1.007	I	-9.732	-9.716	-9.701	-9.686	-9.672	-9.657	-9.643	-9.629	-9.616	-9.602
	F'	8.252	8.253	8.255	8.256	8.258	8.259	8.261	8.262	8.263	8.265
1.008	I	-9.589	-9.576	-9.563	-9.551	-9.538	-9.526	-9.514	-9.502	-9.491	-9.479
	F'	8.266	8.268	8.269	8.270	8.272	8.273	8.275	8.276	8.278	8.279
1.009	I	-9.468	-9.456	-9.445	-9.434	-9.423	-9.413	-9.402	-9.392	-9.382	-9.372
	F'	8.280	8.282	8.283	8.285	8.286	8.287	8.289	8.290	8.292	8.293
1.010	I	-9.362	-9.352	-9.343	-9.333	-9.324	-9.315	-9.305	-9.296	-9.287	-9.279
	F'	8.295	8.296	8.297	8.299	8.300	8.302	8.303	8.305	8.306	8.307
1.011	I	-9.270	-9.261	-9.253	-9.244	-9.236	-9.228	-9.220	-9.212	-9.204	-9.196
	F'	8.309	8.310	8.312	8.313	8.315	8.316	8.317	8.319	8.320	8.322
1.012	I	-9.188	-9.181	-9.173	-9.166	-9.158	-9.151	-9.144	-9.137	-9.129	-9.122
	F'	8.323	8.324	8.326	8.327	8.329	8.330	8.332	8.333	8.334	8.336
1.013	I	-9.115	-9.109	-9.102	-9.095	-9.088	-9.082	-9.075	-9.069	-9.062	-9.056
	F'	8.337	8.339	8.340	8.342	8.343	8.344	8.346	8.347	8.349	8.350
1.014	I	-9.050	-9.044	-9.038	-9.031	-9.025	-9.020	-9.014	-9.008	-9.002	-8.996
	F'	8.352	8.353	8.354	8.356	8.357	8.359	8.360	8.362	8.363	8.366

ATOMIC SYMBOL = IR		ATOMIC NUMBER = 77		L ₂ ABSORPTION EDGE (0.96710 Å; 12.8194 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.953	I	-8.574	-8.581	-8.589	-8.597	-8.605	-8.613	-8.622	-8.630	-8.638	-8.646
	F'	11.033	11.035	11.037	11.039	11.041	11.043	11.045	11.047	11.048	11.050
0.954	I	-8.655	-8.663	-8.672	-8.681	-8.689	-8.698	-8.707	-8.716	-8.725	-8.734
	F'	11.052	11.054	11.056	11.058	11.060	11.062	11.064	11.066	11.068	11.070
0.955	I	-8.743	-8.752	-8.762	-8.771	-8.781	-8.790	-8.800	-8.810	-8.820	-8.830
	F'	11.072	11.074	11.076	11.078	11.080	11.082	11.084	11.086	11.088	11.090
0.956	I	-8.840	-8.850	-8.860	-8.871	-8.881	-8.892	-8.902	-8.913	-8.923	-8.934
	F'	11.092	11.094	11.096	11.097	11.099	11.101	11.103	11.105	11.107	11.109
0.957	I	-8.945	-8.957	-8.968	-8.979	-8.991	-9.003	-9.014	-9.026	-9.039	-9.051
	F'	11.111	11.113	11.115	11.117	11.119	11.121	11.123	11.125	11.127	11.129
0.958	I	-9.063	-9.076	-9.088	-9.101	-9.114	-9.127	-9.140	-9.154	-9.167	-9.181
	F'	11.131	11.133	11.135	11.137	11.139	11.141	11.143	11.145	11.147	11.149
0.959	I	-9.195	-9.209	-9.223	-9.238	-9.253	-9.267	-9.282	-9.298	-9.313	-9.329
	F'	11.151	11.152	11.154	11.156	11.158	11.160	11.162	11.164	11.166	11.168
0.960	I	-9.345	-9.361	-9.377	-9.394	-9.411	-9.428	-9.445	-9.463	-9.481	-9.499
	F'	11.170	11.172	11.174	11.176	11.178	11.180	11.182	11.184	11.186	11.188
0.961	I	-9.518	-9.537	-9.556	-9.576	-9.596	-9.616	-9.637	-9.658	-9.679	-9.701
	F'	11.190	11.192	11.194	11.196	11.198	11.200	11.202	11.204	11.206	11.208
0.962	I	-9.723	-9.746	-9.769	-9.793	-9.817	-9.842	-9.868	-9.894	-9.920	-9.948
	F'	11.210	11.212	11.213	11.215	11.217	11.219	11.221	11.223	11.225	11.227
0.963	I	-9.976	-10.005	-10.034	-10.064	-10.096	-10.128	-10.161	-10.195	-10.230	-10.267
	F'	11.229	11.231	11.233	11.235	11.237	11.239	11.241	11.243	11.245	11.247
0.964	I	-10.304	-10.343	-10.384	-10.426	-10.470	-10.516	-10.563	-10.613	-10.666	-10.721
	F'	11.249	11.251	11.253	11.255	11.257	11.259	11.261	11.263	11.265	11.267
0.965	I	-10.779	-10.841	-10.906	-10.975	-11.050	-11.130	-11.217	-11.311	-11.415	-11.531
	F'	11.269	11.271	11.273	11.275	11.277	11.279	11.281	11.283	11.285	11.287
0.966	I	-11.661	-11.809	-11.982	-12.190	-12.451	-12.801	-13.306	-14.023	-14.923	-16.067
	F'	11.288	11.290	11.292	11.294	11.296	11.298	11.300	11.302	11.304	11.306
0.967	I	-12.762	-12.927	-13.177	-13.514	-13.949	-14.494	-15.250	-16.244	-17.500	-19.050
	F'	8.107	8.109	8.110	8.112	8.113	8.114	8.116	8.117	8.119	8.120
0.968	I	-11.158	-11.081	-11.010	-10.944	-10.882	-10.824	-10.770	-10.718	-10.668	-10.622
	F'	8.122	8.123	8.125	8.126	8.128	8.129	8.130	8.132	8.133	8.135
0.969	I	-10.577	-10.534	-10.494	-10.454	-10.417	-10.381	-10.346	-10.313	-10.280	-10.249
	F'	8.136	8.138	8.139	8.141	8.142	8.144	8.145	8.146	8.148	8.149
0.970	I	-10.219	-10.189	-10.161	-10.133	-10.107	-10.081	-10.056	-10.031	-10.007	-9.984
	F'	8.151	8.152	8.154	8.155	8.157	8.158	8.160	8.161	8.162	8.164
0.971	I	-9.961	-9.939	-9.917	-9.896	-9.876	-9.856	-9.836	-9.817	-9.798	-9.779
	F'	8.165	8.167	8.168	8.170	8.171	8.173	8.174	8.176	8.177	8.179
0.972	I	-9.761	-9.744	-9.726	-9.709	-9.693	-9.676	-9.660	-9.645	-9.629	-9.614
	F'	8.180	8.181	8.183	8.184	8.186	8.187	8.189	8.190	8.192	8.193
0.973	I	-9.599	-9.584	-9.570	-9.556	-9.542	-9.528	-9.515	-9.502	-9.489	-9.476
	F'	8.195	8.196	8.197	8.199	8.200	8.202	8.203	8.205	8.206	8.208
0.974	I	-9.463	-9.451	-9.439	-9.427	-9.415	-9.403	-9.392	-9.380	-9.369	-9.358
	F'	8.209	8.211	8.212	8.214	8.215	8.216	8.218	8.219	8.221	8.222
0.975	I	-9.347	-9.337	-9.326	-9.316	-9.305	-9.295	-9.285	-9.275	-9.265	-9.256
	F'	8.224	8.225	8.227	8.228	8.230	8.231	8.233	8.234	8.235	8.237
0.976	I	-9.246	-9.237	-9.228	-9.219	-9.210	-9.201	-9.192	-9.183	-9.174	-9.166
	F'	8.238	8.240	8.241	8.243	8.244	8.246	8.247	8.249	8.250	8.252
0.977	I	-9.158	-9.149	-9.141	-9.133	-9.125	-9.117	-9.109	-9.101	-9.094	-9.086
	F'	8.253	8.254	8.256	8.257	8.259	8.260	8.262	8.263	8.265	8.266
0.978	I	-9.079	-9.071	-9.064	-9.057	-9.050	-9.042	-9.035	-9.028	-9.022	-9.015
	F'	8.268	8.269	8.271	8.272	8.273	8.275	8.276	8.278	8.279	8.281
0.979	I	-9.008	-9.001	-8.995	-8.988	-8.982	-8.975	-8.969	-8.963	-8.957	-8.951
	F'	8.282	8.284	8.285	8.287	8.288	8.290	8.291	8.293	8.294	8.295
0.980	I	-8.944	-8.938	-8.932	-8.927	-8.921	-8.915	-8.909	-8.904	-8.898	-8.892
	F'	8.297	8.298	8.300	8.301	8.303	8.304	8.306	8.307	8.309	8.310

ATOMIC SYMBOL = PT		ATOMIC NUMBER = 78		L ₂ ABSORPTION EDGE (0.93414 Å; 13.2717 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.920	I	-8.468	-8.476	-8.483	-8.491	-8.499	-8.506	-8.514	-8.522	-8.530	-8.538
	F ^{''}	10.952	10.955	10.957	10.959	10.961	10.963	10.965	10.967	10.969	10.971
0.921	I	-8.546	-8.554	-8.563	-8.571	-8.579	-8.588	-8.596	-8.605	-8.614	-8.622
	F ^{''}	10.973	10.975	10.977	10.979	10.981	10.983	10.985	10.987	10.989	10.991
0.922	I	-8.631	-8.640	-8.649	-8.658	-8.667	-8.677	-8.686	-8.695	-8.705	-8.714
	F ^{''}	10.993	10.995	10.998	11.000	11.002	11.004	11.006	11.008	11.010	11.012
0.923	I	-8.724	-8.734	-8.744	-8.754	-8.764	-8.774	-8.784	-8.794	-8.805	-8.815
	F ^{''}	11.014	11.016	11.018	11.020	11.022	11.024	11.026	11.028	11.030	11.032
0.924	I	-8.826	-8.837	-8.848	-8.859	-8.870	-8.881	-8.892	-8.904	-8.915	-8.927
	F ^{''}	11.034	11.036	11.039	11.041	11.043	11.045	11.047	11.049	11.051	11.053
0.925	I	-8.939	-8.951	-8.963	-8.975	-8.988	-9.000	-9.013	-9.026	-9.039	-9.052
	F ^{''}	11.055	11.057	11.059	11.061	11.063	11.065	11.067	11.069	11.071	11.073
0.926	I	-9.065	-9.078	-9.092	-9.106	-9.120	-9.134	-9.148	-9.163	-9.178	-9.193
	F ^{''}	11.076	11.078	11.080	11.082	11.084	11.086	11.088	11.090	11.092	11.094
0.927	I	-9.208	-9.223	-9.239	-9.254	-9.270	-9.287	-9.303	-9.320	-9.337	-9.354
	F ^{''}	11.096	11.098	11.100	11.102	11.104	11.106	11.108	11.110	11.113	11.115
0.928	I	-9.372	-9.390	-9.408	-9.426	-9.445	-9.464	-9.483	-9.503	-9.523	-9.544
	F ^{''}	11.117	11.119	11.121	11.123	11.125	11.127	11.129	11.131	11.133	11.135
0.929	I	-9.565	-9.586	-9.608	-9.630	-9.652	-9.675	-9.699	-9.723	-9.748	-9.773
	F ^{''}	11.137	11.139	11.141	11.143	11.145	11.148	11.150	11.152	11.154	11.156
0.930	I	-9.799	-9.825	-9.852	-9.880	-9.908	-9.937	-9.967	-9.998	-10.030	-10.063
	F ^{''}	11.158	11.160	11.162	11.164	11.166	11.168	11.170	11.172	11.174	11.176
0.931	I	-10.097	-10.132	-10.168	-10.205	-10.243	-10.283	-10.325	-10.368	-10.413	-10.460
	F ^{''}	11.178	11.181	11.183	11.185	11.187	11.189	11.191	11.193	11.195	11.197
0.932	I	-10.509	-10.561	-10.615	-10.672	-10.733	-10.796	-10.865	-10.937	-11.015	-11.100
	F ^{''}	11.199	11.201	11.203	11.205	11.207	11.209	11.211	11.214	11.216	11.218
0.933	I	-11.192	-11.292	-11.404	-11.528	-11.670	-11.834	-12.029	-12.270	-12.585	-13.041
	F ^{''}	11.220	11.222	11.224	11.226	11.228	11.230	11.232	11.234	11.236	11.238
0.934	I	-13.885	-15.140	-16.415	-17.810	-19.345	-21.040	-22.905	-24.950	-27.285	-30.000
	F ^{''}	11.240	8.045	8.047	8.048	8.050	8.051	8.053	8.054	8.056	8.057
0.935	I	-11.377	-11.774	-12.181	-12.606	-13.059	-13.549	-14.074	-14.644	-15.259	-15.919
	F ^{''}	8.059	8.060	8.062	8.063	8.065	8.066	8.068	8.069	8.071	8.072
0.936	I	-10.648	-10.596	-10.549	-10.504	-10.460	-10.419	-10.379	-10.341	-10.305	-10.270
	F ^{''}	8.074	8.075	8.077	8.078	8.080	8.081	8.083	8.084	8.086	8.087
0.937	I	-10.236	-10.203	-10.172	-10.141	-10.111	-10.083	-10.055	-10.028	-10.002	-9.976
	F ^{''}	8.089	8.090	8.092	8.093	8.095	8.096	8.098	8.099	8.101	8.102
0.938	I	-9.952	-9.928	-9.904	-9.881	-9.859	-9.837	-9.816	-9.795	-9.775	-9.755
	F ^{''}	8.104	8.105	8.107	8.108	8.110	8.111	8.113	8.114	8.116	8.117
0.939	I	-9.736	-9.717	-9.698	-9.680	-9.662	-9.645	-9.628	-9.611	-9.595	-9.579
	F ^{''}	8.119	8.120	8.122	8.123	8.125	8.126	8.128	8.129	8.131	8.132
0.940	I	-9.533	-9.547	-9.562	-9.577	-9.592	-9.608	-9.624	-9.640	-9.656	-9.672
	F ^{''}	8.134	8.135	8.137	8.138	8.140	8.141	8.143	8.144	8.146	8.147
0.941	I	-9.419	-9.406	-9.393	-9.381	-9.368	-9.356	-9.344	-9.332	-9.320	-9.309
	F ^{''}	8.149	8.150	8.152	8.153	8.155	8.156	8.158	8.159	8.161	8.162
0.942	I	-9.297	-9.286	-9.275	-9.264	-9.253	-9.243	-9.232	-9.222	-9.212	-9.202
	F ^{''}	8.164	8.165	8.167	8.168	8.170	8.171	8.173	8.174	8.176	8.177
0.943	I	-9.192	-9.182	-9.172	-9.163	-9.153	-9.144	-9.135	-9.126	-9.117	-9.108
	F ^{''}	8.179	8.180	8.182	8.183	8.185	8.186	8.188	8.189	8.191	8.192
0.944	I	-9.099	-9.091	-9.082	-9.074	-9.065	-9.057	-9.049	-9.041	-9.033	-9.025
	F ^{''}	8.194	8.195	8.197	8.198	8.200	8.201	8.203	8.204	8.206	8.207
0.945	I	-9.017	-9.010	-9.002	-9.004	-8.995	-8.988	-8.980	-8.973	-8.966	-8.959
	F ^{''}	8.209	8.210	8.212	8.213	8.215	8.216	8.218	8.219	8.221	8.222
0.946	I	-8.952	-8.945	-8.938	-8.932	-8.925	-8.918	-8.912	-8.905	-8.899	-8.892
	F ^{''}	8.224	8.225	8.227	8.228	8.230	8.231	8.233	8.234	8.236	8.237
0.947	I	-8.886	-8.880	-8.874	-8.868	-8.862	-8.856	-8.850	-8.844	-8.838	-8.832
	F ^{''}	8.239	8.240	8.242	8.244	8.245	8.247	8.248	8.250	8.251	8.253

ATOMIC SYMBOL = AU		ATOMIC NUMBER = 79		L ₂ ABSORPTION EDGE (0.90259 Å; 13.7356 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.889	I	F'	-8.417	-8.425	-8.432	-8.440	-8.448	-8.456	-8.464	-8.471	-8.480
	I	F''	10.874	10.876	10.878	10.880	10.882	10.884	10.886	10.889	10.891
0.890	I	F'	-8.496	-8.504	-8.512	-8.521	-8.529	-8.538	-8.547	-8.555	-8.564
	I	F''	10.895	10.897	10.899	10.901	10.903	10.905	10.907	10.910	10.912
0.891	I	F'	-8.582	-8.591	-8.600	-8.609	-8.619	-8.628	-8.637	-8.647	-8.657
	I	F''	10.916	10.918	10.920	10.922	10.924	10.926	10.928	10.930	10.933
0.892	I	F'	-8.676	-8.686	-8.696	-8.706	-8.717	-8.727	-8.738	-8.748	-8.759
	I	F''	10.937	10.939	10.941	10.943	10.945	10.947	10.949	10.951	10.954
0.893	I	F'	-8.781	-8.792	-8.803	-8.814	-8.825	-8.837	-8.849	-8.860	-8.872
	I	F''	10.958	10.960	10.962	10.964	10.966	10.968	10.970	10.972	10.974
0.894	I	F'	-8.896	-8.909	-8.921	-8.934	-8.947	-8.960	-8.973	-8.986	-8.999
	I	F''	10.979	10.981	10.983	10.985	10.987	10.989	10.991	10.993	10.998
0.895	I	F'	-9.027	-9.041	-9.055	-9.069	-9.083	-9.098	-9.113	-9.128	-9.144
	I	F''	11.000	11.002	11.004	11.006	11.008	11.010	11.012	11.014	11.016
0.896	I	F'	-9.175	-9.191	-9.207	-9.224	-9.240	-9.257	-9.275	-9.292	-9.310
	I	F''	11.021	11.023	11.025	11.027	11.029	11.031	11.033	11.035	11.038
0.897	I	F'	-9.347	-9.365	-9.385	-9.404	-9.424	-9.444	-9.464	-9.485	-9.507
	I	F''	11.042	11.044	11.046	11.048	11.050	11.052	11.054	11.056	11.059
0.898	I	F'	-9.551	-9.573	-9.597	-9.620	-9.645	-9.669	-9.695	-9.721	-9.747
	I	F''	11.063	11.065	11.067	11.069	11.071	11.073	11.075	11.077	11.080
0.899	I	F'	-9.802	-9.831	-9.861	-9.891	-9.922	-9.954	-9.987	-10.021	-10.057
	I	F''	11.084	11.086	11.088	11.090	11.092	11.094	11.096	11.099	11.101
0.900	I	F'	-10.131	-10.170	-10.211	-10.253	-10.297	-10.343	-10.391	-10.441	-10.494
	I	F''	11.105	11.107	11.109	11.111	11.113	11.115	11.118	11.120	11.122
0.901	I	F'	-10.607	-10.669	-10.735	-10.805	-10.881	-10.962	-11.050	-11.146	-11.251
	I	F''	11.126	11.128	11.130	11.132	11.134	11.137	11.139	11.141	11.143
0.902	I	F'	-11.502	-11.654	-11.833	-12.050	-12.325	-12.702	-13.306	-15.001	-17.935
	I	F''	11.147	11.149	11.151	11.153	11.156	11.158	11.160	11.162	7.979
0.903	I	F'	-12.483	-12.173	-11.937	-11.746	-11.586	-11.448	-11.327	-11.219	-11.122
	I	F''	7.982	7.984	7.985	7.987	7.989	7.990	7.992	7.993	7.996
0.904	I	F'	-10.953	-10.878	-10.808	-10.744	-10.683	-10.626	-10.572	-10.521	-10.472
	I	F''	7.998	7.999	8.001	8.002	8.004	8.005	8.007	8.009	8.010
0.905	I	F'	-10.382	-10.340	-10.300	-10.261	-10.224	-10.189	-10.154	-10.121	-10.089
	I	F''	8.013	8.015	8.016	8.018	8.019	8.021	8.022	8.024	8.025
0.906	I	F'	-10.028	-9.999	-9.971	-9.944	-9.918	-9.892	-9.867	-9.842	-9.819
	I	F''	8.028	8.030	8.032	8.033	8.035	8.036	8.038	8.039	8.041
0.907	I	F'	-9.773	-9.751	-9.730	-9.709	-9.688	-9.669	-9.649	-9.630	-9.611
	I	F''	8.044	8.045	8.047	8.049	8.050	8.052	8.053	8.055	8.056
0.908	I	F'	-9.575	-9.557	-9.540	-9.523	-9.507	-9.491	-9.475	-9.459	-9.444
	I	F''	8.059	8.061	8.062	8.064	8.065	8.067	8.069	8.070	8.072
0.909	I	F'	-9.422	-9.407	-9.393	-9.379	-9.365	-9.351	-9.338	-9.325	-9.312
	I	F''	8.075	8.076	8.078	8.079	8.081	8.082	8.084	8.085	8.087
0.910	I	F'	-9.287	-9.274	-9.262	-9.250	-9.239	-9.227	-9.215	-9.204	-9.193
	I	F''	8.090	8.092	8.093	8.095	8.096	8.098	8.099	8.101	8.102
0.911	I	F'	-9.171	-9.161	-9.150	-9.140	-9.130	-9.119	-9.110	-9.100	-9.090
	I	F''	8.105	8.107	8.109	8.110	8.112	8.113	8.115	8.116	8.118
0.912	I	F'	-9.071	-9.062	-9.052	-9.043	-9.034	-9.025	-9.017	-9.008	-8.999
	I	F''	8.121	8.122	8.124	8.126	8.127	8.129	8.130	8.132	8.133
0.913	I	F'	-8.983	-8.974	-8.966	-8.958	-8.950	-8.942	-8.934	-8.927	-8.919
	I	F''	8.136	8.138	8.139	8.141	8.143	8.144	8.146	8.147	8.149
0.914	I	F'	-8.904	-8.897	-8.889	-8.882	-8.875	-8.868	-8.861	-8.854	-8.847
	I	F''	8.152	8.153	8.155	8.156	8.158	8.159	8.161	8.163	8.164
0.915	I	F'	-8.834	-8.827	-8.821	-8.814	-8.808	-8.801	-8.795	-8.789	-8.783
	I	F''	8.167	8.169	8.170	8.172	8.173	8.175	8.176	8.178	8.180
0.916	I	F'	-8.770	-8.764	-8.758	-8.753	-8.747	-8.741	-8.735	-8.730	-8.724
	I	F''	8.183	8.184	8.186	8.187	8.189	8.190	8.192	8.193	8.195

ATOMIC SYMBOL = HG		ATOMIC NUMBER = 80		L ₂ ABSORPTION EDGE (0.87220 Å; 14.2142 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.858	I	F'	-8.299	-8.306	-8.313	-8.320	-8.327	-8.334	-8.341	-8.348	-8.356
	I	F''	10.769	10.772	10.774	10.776	10.778	10.780	10.782	10.784	10.789
0.859	I	F'	-8.370	-8.378	-8.386	-8.393	-8.401	-8.409	-8.417	-8.424	-8.432
	I	F''	10.791	10.793	10.795	10.797	10.799	10.801	10.804	10.806	10.810
0.860	I	F'	-8.449	-8.457	-8.465	-8.474	-8.482	-8.491	-8.499	-8.508	-8.517
	I	F''	10.812	10.814	10.816	10.819	10.821	10.823	10.825	10.827	10.831
0.861	I	F'	-8.534	-8.543	-8.553	-8.562	-8.571	-8.580	-8.590	-8.600	-8.619
	I	F''	10.834	10.836	10.838	10.840	10.842	10.844	10.846	10.849	10.853
0.862	I	F'	-8.629	-8.639	-8.649	-8.659	-8.669	-8.680	-8.690	-8.701	-8.712
	I	F''	10.855	10.857	10.859	10.861	10.864	10.866	10.868	10.870	10.872
0.863	I	F'	-8.733	-8.744	-8.756	-8.767	-8.778	-8.790	-8.802	-8.814	-8.826
	I	F''	10.876	10.879	10.881	10.883	10.885	10.887	10.889	10.891	10.894
0.864	I	F'	-8.850	-8.862	-8.875	-8.888	-8.901	-8.914	-8.927	-8.940	-8.954
	I	F''	10.898	10.900	10.902	10.904	10.906	10.909	10.911	10.913	10.915
0.865	I	F'	-8.982	-8.996	-9.010	-9.024	-9.039	-9.054	-9.069	-9.085	-9.100
	I	F''	10.919	10.921	10.924	10.926	10.928	10.930	10.932	10.934	10.937
0.866	I	F'	-9.132	-9.148	-9.165	-9.182	-9.199	-9.216	-9.234	-9.251	-9.270
	I	F''	10.941	10.943	10.945	10.947	10.949	10.952	10.954	10.956	10.960
0.867	I	F'	-9.307	-9.326	-9.346	-9.366	-9.386	-9.407	-9.428	-9.449	-9.471
	I	F''	10.962	10.964	10.967	10.969	10.971	10.973	10.975	10.977	10.980
0.868	I	F'	-9.517	-9.540	-9.564	-9.588	-9.613	-9.639	-9.665	-9.692	-9.720
	I	F''	10.984	10.986	10.988	10.990	10.992	10.995	10.997	10.999	11.001
0.869	I	F'	-9.777	-9.807	-9.838	-9.870	-9.903	-9.936	-9.971	-10.007	-10.044
	I	F''	11.005	11.008	11.010	11.012	11.014	11.016	11.018	11.020	11.023
0.870	I	F'	-10.123	-10.165	-10.208	-10.253	-10.301	-10.350	-10.402	-10.457	-10.514
	I	F''	11.027	11.029	11.031	11.033	11.036	11.038	11.040	11.042	11.044
0.871	I	F'	-10.640	-10.709	-10.783	-10.862	-10.949	-11.043	-11.146	-11.261	-11.390
	I	F''	11.048	11.051	11.053	11.055	11.057	11.059	11.061	11.064	11.068
0.872	I	F'	-11.712	-11.920	-12.183	-12.537	-13.086	-14.376	-13.896	-12.934	-12.451
	I	F''	11.070	11.072	11.074	11.077	11.079	11.081	7.918	7.919	7.921
0.873	I	F'	-11.884	-11.688	-11.525	-11.385	-11.262	-11.153	-11.055	-10.966	-10.884
	I	F''	7.924	7.925	7.927	7.929	7.930	7.932	7.933	7.935	7.938
0.874	I	F'	-10.739	-10.674	-10.613	-10.556	-10.502	-10.451	-10.402	-10.356	-10.312
	I	F''	7.940	7.941	7.943	7.944	7.946	7.948	7.949	7.951	7.952
0.875	I	F'	-10.229	-10.191	-10.154	-10.118	-10.084	-10.050	-10.018	-9.987	-9.958
	I	F''	7.955	7.957	7.959	7.960	7.962	7.963	7.965	7.966	7.968
0.876	I	F'	-9.900	-9.873	-9.847	-9.821	-9.796	-9.772	-9.748	-9.725	-9.703
	I	F''	7.971	7.973	7.974	7.976	7.978	7.979	7.981	7.982	7.984
0.877	I	F'	-9.659	-9.638	-9.618	-9.598	-9.579	-9.559	-9.541	-9.523	-9.505
	I	F''	7.987	7.989	7.990	7.992	7.993	7.995	7.997	7.998	8.000
0.878	I	F'	-9.470	-9.453	-9.437	-9.420	-9.405	-9.389	-9.374	-9.359	-9.344
	I	F''	8.003	8.004	8.006	8.008	8.009	8.011	8.012	8.014	8.016
0.879	I	F'	-9.315	-9.301	-9.287	-9.274	-9.260	-9.247	-9.234	-9.222	-9.209
	I	F''	8.019	8.020	8.022	8.023	8.025	8.027	8.028	8.030	8.033
0.880	I	F'	-9.185	-9.173	-9.161	-9.149	-9.138	-9.127	-9.116	-9.105	-9.094
	I	F''	8.035	8.036	8.038	8.039	8.041	8.042	8.044	8.046	8.049
0.881	I	F'	-9.073	-9.062	-9.052	-9.042	-9.032	-9.022	-9.013	-9.003	-8.994
	I	F''	8.050	8.052	8.054	8.055	8.057	8.058	8.060	8.061	8.063
0.882	I	F'	-8.975	-8.966	-8.957	-8.948	-8.939	-8.931	-8.922	-8.914	-8.905
	I	F''	8.066	8.068	8.069	8.071	8.073	8.074	8.076	8.077	8.081
0.883	I	F'	-8.889	-8.881	-8.873	-8.865	-8.857	-8.850	-8.842	-8.835	-8.827
	I	F''	8.082	8.084	8.085	8.087	8.088	8.090	8.092	8.093	8.095
0.884	I	F'	-8.812	-8.805	-8.798	-8.791	-8.784	-8.777	-8.770	-8.764	-8.757
	I	F''	8.098	8.100	8.101	8.103	8.104	8.106	8.108	8.109	8.111
0.885	I	F'	-8.744	-8.737	-8.731	-8.724	-8.718	-8.712	-8.706	-8.700	-8.694
	I	F''	8.114	8.115	8.117	8.119	8.120	8.122	8.123	8.125	8.127

ATOMIC SYMBOL = TL			ATOMIC NUMBER = 81		L ₂ ABSORPTION EDGE (0.84340 Å; 14.6996 KEV)							
I			0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.829	I	F'	-8.237	-8.243	-8.250	-8.257	-8.264	-8.271	-8.278	-8.285	-8.292	-8.299
	I	F''	10.680	10.682	10.684	10.686	10.688	10.691	10.693	10.695	10.697	10.699
0.830	I	F'	-8.307	-8.314	-8.322	-8.329	-8.337	-8.344	-8.352	-8.360	-8.368	-8.376
	I	F''	10.701	10.704	10.706	10.708	10.710	10.712	10.714	10.717	10.719	10.721
0.831	I	F'	-8.384	-8.392	-8.400	-8.408	-8.416	-8.425	-8.433	-8.442	-8.451	-8.459
	I	F''	10.723	10.725	10.727	10.730	10.732	10.734	10.736	10.738	10.741	10.743
0.832	I	F'	-8.468	-8.477	-8.486	-8.495	-8.504	-8.514	-8.523	-8.532	-8.542	-8.552
	I	F''	10.745	10.747	10.749	10.751	10.754	10.756	10.758	10.760	10.762	10.765
0.833	I	F'	-8.561	-8.571	-8.581	-8.591	-8.601	-8.612	-8.622	-8.633	-8.643	-8.654
	I	F''	10.767	10.769	10.771	10.773	10.775	10.778	10.780	10.782	10.784	10.786
0.834	I	F'	-8.665	-8.676	-8.687	-8.698	-8.710	-8.721	-8.733	-8.744	-8.756	-8.766
	I	F''	10.788	10.791	10.793	10.795	10.797	10.799	10.802	10.804	10.806	10.808
0.835	I	F'	-8.781	-8.793	-8.805	-8.818	-8.831	-8.844	-8.857	-8.870	-8.884	-8.897
	I	F''	10.810	10.812	10.815	10.817	10.819	10.821	10.823	10.826	10.828	10.830
0.836	I	F'	-8.911	-8.925	-8.940	-8.954	-8.969	-8.983	-8.998	-9.014	-9.029	-9.045
	I	F''	10.832	10.834	10.836	10.839	10.841	10.843	10.845	10.847	10.850	10.852
0.837	I	F'	-9.061	-9.077	-9.094	-9.110	-9.127	-9.145	-9.169	-9.187	-9.205	-9.224
	I	F''	10.854	10.856	10.858	10.860	10.863	10.865	10.867	10.869	10.871	10.874
0.838	I	F'	-9.242	-9.262	-9.281	-9.301	-9.321	-9.342	-9.363	-9.385	-9.407	-9.429
	I	F''	10.876	10.878	10.880	10.882	10.885	10.887	10.889	10.891	10.893	10.895
0.839	I	F'	-9.452	-9.475	-9.499	-9.524	-9.549	-9.575	-9.601	-9.628	-9.656	-9.684
	I	F''	10.898	10.900	10.902	10.904	10.906	10.909	10.911	10.913	10.915	10.917
0.840	I	F'	-9.713	-9.743	-9.774	-9.806	-9.839	-9.873	-9.908	-9.944	-9.982	-10.021
	I	F''	10.919	10.922	10.924	10.926	10.928	10.930	10.933	10.935	10.937	10.939
0.841	I	F'	-10.061	-10.103	-10.147	-10.193	-10.241	-10.291	-10.343	-10.399	-10.457	-10.519
	I	F''	10.941	10.944	10.946	10.948	10.950	10.952	10.954	10.957	10.959	10.961
0.842	I	F'	-10.585	-10.656	-10.732	-10.813	-10.902	-10.999	-11.096	-11.226	-11.362	-11.518
	I	F''	10.963	10.965	10.968	10.970	10.972	10.974	10.976	10.979	10.981	10.983
0.843	I	F'	-11.703	-11.930	-12.221	-12.634	-13.343	-16.937	-13.281	-12.605	-12.206	-11.922
	I	F''	10.985	10.987	10.989	10.992	10.994	10.996	7.849	7.851	7.853	7.856
0.844	I	F'	-11.702	-11.522	-11.370	-11.238	-11.122	-11.019	-10.925	-10.840	-10.761	-10.689
	I	F''	7.857	7.859	7.861	7.862	7.864	7.866	7.867	7.869	7.870	7.872
0.845	I	F'	-10.621	-10.558	-10.499	-10.444	-10.391	-10.341	-10.294	-10.249	-10.206	-10.165
	I	F''	7.874	7.875	7.877	7.878	7.880	7.882	7.883	7.885	7.887	7.888
0.846	I	F'	-10.125	-10.087	-10.051	-10.016	-9.982	-9.950	-9.918	-9.888	-9.859	-9.830
	I	F''	7.890	7.891	7.893	7.895	7.896	7.898	7.900	7.901	7.903	7.904
0.847	I	F'	-9.803	-9.776	-9.750	-9.725	-9.700	-9.676	-9.653	-9.630	-9.608	-9.586
	I	F''	7.906	7.908	7.909	7.911	7.913	7.914	7.916	7.917	7.919	7.921
0.848	I	F'	-9.565	-9.544	-9.524	-9.505	-9.485	-9.467	-9.448	-9.430	-9.413	-9.395
	I	F''	7.922	7.924	7.925	7.927	7.929	7.930	7.932	7.934	7.935	7.937
0.849	I	F'	-9.378	-9.362	-9.345	-9.329	-9.314	-9.298	-9.283	-9.268	-9.254	-9.239
	I	F''	7.938	7.940	7.942	7.943	7.945	7.947	7.948	7.950	7.951	7.953
0.850	I	F'	-9.225	-9.211	-9.198	-9.184	-9.171	-9.158	-9.145	-9.133	-9.120	-9.108
	I	F''	7.955	7.956	7.958	7.960	7.961	7.963	7.964	7.966	7.968	7.969
0.851	I	F'	-9.096	-9.084	-9.073	-9.061	-9.050	-9.039	-9.028	-9.017	-9.006	-8.996
	I	F''	7.971	7.973	7.974	7.976	7.977	7.979	7.981	7.982	7.984	7.986
0.852	I	F'	-8.985	-8.975	-8.965	-8.955	-8.945	-8.935	-8.926	-8.916	-8.907	-8.898
	I	F''	7.987	7.989	7.990	7.992	7.994	7.995	7.997	7.999	8.000	8.002
0.853	I	F'	-8.889	-8.880	-8.871	-8.862	-8.853	-8.845	-8.836	-8.828	-8.819	-8.811
	I	F''	8.004	8.005	8.007	8.008	8.010	8.012	8.013	8.015	8.017	8.018
0.854	I	F'	-8.803	-8.795	-8.787	-8.779	-8.772	-8.764	-8.757	-8.749	-8.742	-8.734
	I	F''	8.020	8.021	8.023	8.025	8.026	8.028	8.030	8.031	8.033	8.034
0.855	I	F'	-8.727	-8.720	-8.713	-8.706	-8.699	-8.692	-8.685	-8.679	-8.672	-8.665
	I	F''	8.036	8.038	8.039	8.041	8.043	8.044	8.046	8.048	8.049	8.051
0.856	I	F'	-8.659	-8.653	-8.646	-8.640	-8.634	-8.627	-8.621	-8.615	-8.609	-8.603
	I	F''	8.052	8.054	8.056	8.057	8.059	8.061	8.062	8.064	8.065	8.067

ATOMIC SYMBOL = PB			ATOMIC NUMBER = 82		L ₂ ABSORPTION EDGE (0.81538 Å; 15.2047 KEV)							
	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.801	I	F'	-8.170	-8.176	-8.183	-8.189	-8.196	-8.203	-8.210	-8.216	-8.223	-8.230
	I	F''	10.589	10.592	10.594	10.596	10.598	10.601	10.603	10.605	10.607	10.610
0.802	I	F'	-8.237	-8.244	-8.251	-8.259	-8.266	-8.273	-8.281	-8.288	-8.296	-8.303
	I	F''	10.612	10.614	10.616	10.619	10.621	10.623	10.625	10.628	10.630	10.632
0.803	I	F'	-8.311	-8.319	-8.327	-8.335	-8.343	-8.351	-8.359	-8.368	-8.376	-8.384
	I	F''	10.634	10.637	10.639	10.641	10.643	10.646	10.648	10.650	10.652	10.655
0.804	I	F'	-8.393	-8.402	-8.410	-8.419	-8.428	-8.437	-8.446	-8.455	-8.464	-8.474
	I	F''	10.657	10.659	10.661	10.664	10.666	10.668	10.670	10.673	10.675	10.677
0.805	I	F'	-8.490	-8.499	-8.509	-8.519	-8.529	-8.539	-8.549	-8.559	-8.569	-8.580
	I	F''	10.679	10.682	10.684	10.686	10.688	10.691	10.693	10.695	10.697	10.700
0.806	I	F'	-8.590	-8.601	-8.612	-8.623	-8.634	-8.645	-8.656	-8.668	-8.679	-8.691
	I	F''	10.702	10.704	10.706	10.709	10.711	10.713	10.715	10.718	10.720	10.722
0.807	I	F'	-8.703	-8.715	-8.727	-8.739	-8.752	-8.764	-8.777	-8.790	-8.803	-8.817
	I	F''	10.724	10.727	10.729	10.731	10.733	10.736	10.738	10.740	10.742	10.745
0.808	I	F'	-8.830	-8.844	-8.857	-8.872	-8.886	-8.900	-8.915	-8.930	-8.945	-8.960
	I	F''	10.747	10.749	10.751	10.754	10.756	10.758	10.760	10.763	10.765	10.767
0.809	I	F'	-8.976	-8.991	-9.007	-9.024	-9.040	-9.057	-9.074	-9.091	-9.109	-9.127
	I	F''	10.770	10.772	10.774	10.776	10.779	10.781	10.783	10.785	10.788	10.790
0.810	I	F'	-9.145	-9.164	-9.183	-9.202	-9.221	-9.241	-9.262	-9.283	-9.304	-9.326
	I	F''	10.792	10.794	10.797	10.799	10.801	10.803	10.806	10.808	10.810	10.812
0.811	I	F'	-9.348	-9.370	-9.393	-9.417	-9.441	-9.466	-9.491	-9.517	-9.544	-9.571
	I	F''	10.815	10.817	10.819	10.821	10.824	10.826	10.828	10.831	10.833	10.835
0.812	I	F'	-9.599	-9.628	-9.657	-9.688	-9.719	-9.752	-9.785	-9.819	-9.855	-9.892
	I	F''	10.837	10.840	10.842	10.844	10.846	10.849	10.851	10.853	10.855	10.858
0.813	I	F'	-9.930	-9.970	-10.011	-10.054	-10.099	-10.146	-10.195	-10.246	-10.301	-10.358
	I	F''	10.860	10.862	10.864	10.867	10.869	10.871	10.874	10.876	10.878	10.880
0.814	I	F'	-10.418	-10.483	-10.551	-10.624	-10.704	-10.789	-10.883	-10.986	-11.100	-11.229
	I	F''	10.883	10.885	10.887	10.889	10.892	10.894	10.896	10.898	10.901	10.903
0.815	I	F'	-11.377	-11.549	-11.758	-12.021	-12.377	-12.935	-14.303	-13.637	-12.719	-12.250
	I	F''	10.905	10.908	10.910	10.912	10.914	10.917	10.919	10.921	10.923	10.925
0.816	I	F'	-11.934	-11.695	-11.502	-11.342	-11.204	-11.083	-10.975	-10.879	-10.791	-10.710
	I	F''	7.789	7.791	7.792	7.794	7.796	7.797	7.799	7.801	7.802	7.804
0.817	I	F'	-10.636	-10.567	-10.502	-10.442	-10.385	-10.332	-10.281	-10.233	-10.187	-10.144
	I	F''	7.805	7.807	7.809	7.811	7.812	7.814	7.816	7.817	7.819	7.821
0.818	I	F'	-10.102	-10.062	-10.024	-9.987	-9.952	-9.917	-9.885	-9.853	-9.822	-9.793
	I	F''	7.822	7.824	7.826	7.827	7.829	7.831	7.832	7.834	7.836	7.837
0.819	I	F'	-9.764	-9.736	-9.709	-9.683	-9.657	-9.633	-9.608	-9.585	-9.562	-9.540
	I	F''	7.839	7.841	7.842	7.844	7.846	7.847	7.849	7.851	7.852	7.854
0.820	I	F'	-9.518	-9.497	-9.476	-9.456	-9.436	-9.417	-9.398	-9.379	-9.361	-9.343
	I	F''	7.856	7.857	7.859	7.861	7.862	7.864	7.866	7.867	7.869	7.871
0.821	I	F'	-9.326	-9.309	-9.292	-9.276	-9.260	-9.244	-9.228	-9.213	-9.198	-9.184
	I	F''	7.872	7.874	7.876	7.877	7.879	7.881	7.882	7.884	7.886	7.887
0.822	I	F'	-9.169	-9.155	-9.141	-9.127	-9.114	-9.101	-9.088	-9.075	-9.062	-9.050
	I	F''	7.889	7.891	7.892	7.894	7.896	7.897	7.899	7.901	7.902	7.904
0.823	I	F'	-9.038	-9.025	-9.014	-9.002	-8.990	-8.979	-8.968	-8.957	-8.946	-8.935
	I	F''	7.906	7.907	7.909	7.911	7.912	7.914	7.916	7.917	7.919	7.921
0.824	I	F'	-8.925	-8.914	-8.904	-8.894	-8.884	-8.874	-8.864	-8.855	-8.845	-8.836
	I	F''	7.922	7.924	7.926	7.927	7.929	7.931	7.932	7.934	7.936	7.937
0.825	I	F'	-8.826	-8.817	-8.808	-8.799	-8.790	-8.782	-8.773	-8.765	-8.756	-8.748
	I	F''	7.939	7.941	7.942	7.944	7.946	7.948	7.949	7.951	7.953	7.954
0.826	I	F'	-8.740	-8.732	-8.724	-8.716	-8.708	-8.700	-8.692	-8.685	-8.677	-8.670
	I	F''	7.956	7.958	7.959	7.961	7.963	7.964	7.966	7.968	7.969	7.971
0.827	I	F'	-8.663	-8.655	-8.648	-8.641	-8.634	-8.627	-8.620	-8.613	-8.607	-8.600
	I	F''	7.973	7.974	7.976	7.978	7.979	7.981	7.983	7.984	7.986	7.988
0.828	I	F'	-8.594	-8.587	-8.581	-8.574	-8.568	-8.562	-8.555	-8.549	-8.543	-8.537
	I	F''	7.989	7.991	7.993	7.994	7.996	7.998	7.999	8.001	8.003	8.005

