



KEK Report 88-14
February 1989
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 = BI ATOMIC NUMBER = 83 L₂ ABSORPTION EDGE (0.78870 Å; 15.7191 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.775	I	F'	-8.171	-8.177	-8.184	-8.191	-8.197	-8.204	-8.211	-8.218	-8.225	-8.232
	I	F''	10.509	10.511	10.514	10.516	10.518	10.520	10.523	10.525	10.527	10.530
0.776	I	F'	-8.239	-8.247	-8.254	-8.261	-8.269	-8.276	-8.284	-8.292	-8.300	-8.308
	I	F''	10.532	10.534	10.536	10.539	10.541	10.543	10.545	10.548	10.550	10.552
0.777	I	F'	-8.315	-8.324	-8.332	-8.340	-8.348	-8.357	-8.365	-8.374	-8.382	-8.391
	I	F''	10.555	10.557	10.559	10.561	10.564	10.566	10.568	10.571	10.573	10.575
0.778	I	F'	-8.400	-8.409	-8.418	-8.427	-8.436	-8.445	-8.455	-8.464	-8.474	-8.484
	I	F''	10.577	10.580	10.582	10.584	10.587	10.589	10.591	10.593	10.596	10.598
0.779	I	F'	-8.494	-8.504	-8.514	-8.524	-8.534	-8.545	-8.555	-8.566	-8.577	-8.588
	I	F''	10.600	10.603	10.605	10.607	10.609	10.612	10.614	10.616	10.619	10.621
0.780	I	F'	-8.599	-8.610	-8.621	-8.633	-8.644	-8.656	-8.668	-8.680	-8.692	-8.704
	I	F''	10.623	10.625	10.628	10.630	10.632	10.635	10.637	10.639	10.641	10.644
0.781	I	F'	-8.717	-8.729	-8.742	-8.755	-8.768	-8.782	-8.795	-8.809	-8.823	-8.837
	I	F''	10.646	10.648	10.651	10.653	10.655	10.657	10.660	10.662	10.664	10.667
0.782	I	F'	-8.851	-8.866	-8.881	-8.896	-8.911	-8.926	-8.942	-8.958	-8.974	-8.990
	I	F''	10.669	10.671	10.673	10.676	10.678	10.680	10.683	10.685	10.687	10.690
0.783	I	F'	-9.007	-9.024	-9.041	-9.059	-9.077	-9.095	-9.113	-9.132	-9.151	-9.171
	I	F''	10.692	10.694	10.696	10.699	10.701	10.703	10.706	10.708	10.710	10.712
0.784	I	F'	-9.191	-9.211	-9.232	-9.253	-9.275	-9.297	-9.319	-9.343	-9.366	-9.390
	I	F''	10.715	10.717	10.719	10.722	10.724	10.726	10.728	10.731	10.733	10.735
0.785	I	F'	-9.415	-9.440	-9.466	-9.493	-9.520	-9.548	-9.577	-9.607	-9.637	-9.669
	I	F''	10.738	10.740	10.742	10.745	10.747	10.749	10.751	10.754	10.756	10.758
0.786	I	F'	-9.701	-9.734	-9.769	-9.805	-9.842	-9.880	-9.920	-9.962	-10.005	-10.050
	I	F''	10.761	10.763	10.765	10.767	10.770	10.772	10.774	10.777	10.779	10.781
0.787	I	F'	-10.097	-10.147	-10.199	-10.254	-10.311	-10.373	-10.438	-10.507	-10.582	-10.663
	I	F''	10.784	10.786	10.788	10.790	10.793	10.795	10.797	10.800	10.802	10.804
0.788	I	F'	-10.750	-10.846	-10.952	-11.070	-11.204	-11.358	-11.540	-11.763	-12.049	-12.452
	I	F''	10.807	10.809	10.811	10.813	10.816	10.818	10.820	10.823	10.825	10.827
0.789	I	F'	-13.139	-13.161	-13.144	-12.456	-12.055	-11.771	-11.552	-11.372	-11.221	-11.090
	I	F''	10.830	10.832	7.715	7.717	7.719	7.721	7.722	7.724	7.726	7.727
0.790	I	F'	-10.974	-10.871	-10.778	-10.693	-10.615	-10.543	-10.476	-10.413	-10.355	-10.299
	I	F''	7.729	7.731	7.732	7.734	7.736	7.738	7.739	7.741	7.743	7.744
0.791	I	F'	-10.247	-10.198	-10.150	-10.106	-10.063	-10.022	-9.983	-9.945	-9.909	-9.874
	I	F''	7.746	7.748	7.749	7.751	7.753	7.755	7.756	7.758	7.760	7.761
0.792	I	F'	-9.841	-9.809	-9.777	-9.747	-9.718	-9.690	-9.662	-9.636	-9.610	-9.585
	I	F''	7.763	7.765	7.767	7.768	7.770	7.772	7.773	7.775	7.777	7.778
0.793	I	F'	-9.560	-9.536	-9.513	-9.491	-9.469	-9.447	-9.426	-9.406	-9.386	-9.366
	I	F''	7.780	7.782	7.784	7.785	7.787	7.789	7.790	7.792	7.794	7.796
0.794	I	F'	-9.347	-9.328	-9.310	-9.292	-9.274	-9.257	-9.240	-9.224	-9.208	-9.192
	I	F''	7.797	7.799	7.801	7.802	7.804	7.806	7.807	7.809	7.811	7.813
0.795	I	F'	-9.176	-9.161	-9.146	-9.131	-9.116	-9.102	-9.088	-9.074	-9.061	-9.047
	I	F''	7.814	7.816	7.818	7.819	7.821	7.823	7.825	7.826	7.828	7.830
0.796	I	F'	-9.034	-9.021	-9.009	-8.996	-8.984	-8.972	-8.960	-8.948	-8.936	-8.925
	I	F''	7.831	7.833	7.835	7.837	7.838	7.840	7.842	7.843	7.845	7.847
0.797	I	F'	-8.914	-8.903	-8.892	-8.881	-8.870	-8.860	-8.849	-8.839	-8.829	-8.819
	I	F''	7.848	7.850	7.852	7.854	7.855	7.857	7.859	7.860	7.862	7.864
0.798	I	F'	-8.809	-8.800	-8.790	-8.781	-8.771	-8.762	-8.753	-8.744	-8.735	-8.726
	I	F''	7.866	7.867	7.869	7.871	7.872	7.874	7.876	7.878	7.879	7.881
0.799	I	F'	-8.718	-8.709	-8.701	-8.692	-8.684	-8.676	-8.668	-8.660	-8.652	-8.644
	I	F''	7.883	7.884	7.886	7.888	7.890	7.891	7.893	7.895	7.896	7.898
0.800	I	F'	-8.637	-8.629	-8.622	-8.614	-8.607	-8.599	-8.592	-8.585	-8.578	-8.571
	I	F''	7.900	7.902	7.903	7.905	7.907	7.908	7.910	7.912	7.914	7.915
0.801	I	F'	-8.564	-8.557	-8.551	-8.544	-8.537	-8.531	-8.524	-8.518	-8.512	-8.505
	I	F''	7.917	7.919	7.920	7.922	7.924	7.926	7.927	7.929	7.931	7.932
0.802	I	F'	-8.499	-8.493	-8.487	-8.481	-8.475	-8.469	-8.463	-8.457	-8.451	-8.446
	I	F''	7.934	7.936	7.938	7.939	7.941	7.943	7.945	7.946	7.948	7.950

ATOMIC SYMBOL = AG ATOMIC NUMBER = 47 L₃ ABSORPTION EDGE (3.69990 Å; 3.3508 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
3.686	I	F'	-17.831	-17.848	-17.865	-17.882	-17.900	-17.917	-17.935	-17.952	-17.970	-17.988
	I	F''	10.491	10.491	10.491	10.492	10.492	10.492	10.492	10.492	10.492	10.493
3.687	I	F'	-18.006	-18.024	-18.043	-18.061	-18.080	-18.099	-18.118	-18.137	-18.157	-18.176
	I	F''	10.493	10.493	10.493	10.493	10.493	10.494	10.494	10.494	10.494	10.494
3.688	I	F'	-18.196	-18.216	-18.236	-18.256	-18.276	-18.297	-18.318	-18.339	-18.360	-18.381
	I	F''	10.495	10.495	10.495	10.495	10.495	10.495	10.496	10.496	10.496	10.496
3.689	I	F'	-18.403	-18.425	-18.447	-18.469	-18.491	-18.514	-18.537	-18.560	-18.584	-18.607
	I	F''	10.496	10.496	10.497	10.497	10.497	10.497	10.497	10.497	10.498	10.498
3.690	I	F'	-18.631	-18.655	-18.680	-18.704	-18.729	-18.754	-18.780	-18.806	-18.832	-18.858
	I	F''	10.498	10.498	10.498	10.498	10.499	10.499	10.499	10.499	10.499	10.499
3.691	I	F'	-18.885	-18.912	-18.939	-18.967	-18.995	-19.023	-19.052	-19.081	-19.111	-19.141
	I	F''	10.500	10.500	10.500	10.500	10.500	10.500	10.501	10.501	10.501	10.501
3.692	I	F'	-19.171	-19.201	-19.233	-19.264	-19.296	-19.328	-19.361	-19.395	-19.429	-19.463
	I	F''	10.501	10.501	10.502	10.502	10.502	10.502	10.502	10.502	10.503	10.503
3.693	I	F'	-19.498	-19.533	-19.569	-19.606	-19.643	-19.681	-19.719	-19.758	-19.798	-19.838
	I	F''	10.503	10.503	10.503	10.503	10.504	10.504	10.504	10.504	10.504	10.504
3.694	I	F'	-19.880	-19.921	-19.964	-20.008	-20.052	-20.097	-20.143	-20.190	-20.239	-20.288
	I	F''	10.505	10.505	10.505	10.505	10.505	10.505	10.506	10.506	10.506	10.506
3.695	I	F'	-20.338	-20.389	-20.442	-20.495	-20.550	-20.606	-20.664	-20.723	-20.784	-20.846
	I	F''	10.506	10.506	10.507	10.507	10.507	10.507	10.507	10.507	10.508	10.508
3.696	I	F'	-20.911	-20.976	-21.044	-21.114	-21.186	-21.261	-21.338	-21.417	-21.500	-21.585
	I	F''	10.508	10.508	10.508	10.508	10.509	10.509	10.509	10.509	10.509	10.509
3.697	I	F'	-21.674	-21.766	-21.862	-21.962	-22.067	-22.177	-22.292	-22.413	-22.541	-22.676
	I	F''	10.510	10.510	10.510	10.510	10.510	10.510	10.511	10.511	10.511	10.511
3.698	I	F'	-22.820	-22.973	-23.137	-23.313	-23.504	-23.711	-23.940	-24.193	-24.476	-24.800
	I	F''	10.511	10.511	10.512	10.512	10.512	10.512	10.512	10.512	10.513	10.513
3.699	I	F'	-25.175	-25.622	-26.177	-26.905	-27.970	-29.984	-32.297	-38.679	-47.323	-62.471
	I	F''	10.513	10.513	10.513	10.513	10.514	10.514	3.176	3.176	3.176	3.176
3.700	I	F'	-25.848	-25.357	-24.952	-24.606	-24.305	-24.039	-23.799	-23.582	-23.384	-23.201
	I	F''	3.176	3.177	3.177	3.177	3.177	3.177	3.177	3.177	3.177	3.178
3.701	I	F'	-23.031	-22.873	-22.725	-22.585	-22.454	-22.329	-22.211	-22.098	-21.991	-21.888
	I	F''	3.178	3.178	3.178	3.178	3.178	3.178	3.179	3.179	3.179	3.179
3.702	I	F'	-21.790	-21.695	-21.604	-21.517	-21.433	-21.351	-21.273	-21.197	-21.123	-21.052
	I	F''	3.179	3.179	3.179	3.180	3.180	3.180	3.180	3.180	3.180	3.180
3.703	I	F'	-20.982	-20.915	-20.849	-20.786	-20.724	-20.663	-20.604	-20.547	-20.491	-20.436
	I	F''	3.180	3.181	3.181	3.181	3.181	3.181	3.181	3.181	3.182	3.182
3.704	I	F'	-20.382	-20.330	-20.279	-20.228	-20.179	-20.131	-20.084	-20.038	-19.992	-19.948
	I	F''	3.182	3.182	3.182	3.182	3.182	3.182	3.183	3.183	3.183	3.183
3.705	I	F'	-19.904	-19.861	-19.819	-19.778	-19.737	-19.697	-19.658	-19.619	-19.581	-19.544
	I	F''	3.183	3.183	3.183	3.184	3.184	3.184	3.184	3.184	3.184	3.184
3.706	I	F'	-19.507	-19.470	-19.435	-19.399	-19.365	-19.331	-19.297	-19.264	-19.231	-19.198
	I	F''	3.185	3.185	3.185	3.185	3.185	3.185	3.185	3.185	3.186	3.186
3.707	I	F'	-19.166	-19.135	-19.104	-19.073	-19.043	-19.013	-18.983	-18.954	-18.925	-18.897
	I	F''	3.186	3.186	3.186	3.186	3.186	3.187	3.187	3.187	3.187	3.187
3.708	I	F'	-18.869	-18.841	-18.814	-18.786	-18.759	-18.733	-18.707	-18.681	-18.655	-18.629
	I	F''	3.187	3.187	3.187	3.188	3.188	3.188	3.188	3.188	3.188	3.188
3.709	I	F'	-18.604	-18.579	-18.555	-18.530	-18.506	-18.482	-18.458	-18.435	-18.412	-18.389
	I	F''	3.189	3.189	3.189	3.189	3.189	3.189	3.189	3.190	3.190	3.190
3.710	I	F'	-18.366	-18.343	-18.321	-18.299	-18.277	-18.255	-18.234	-18.212	-18.191	-18.170
	I	F''	3.190	3.190	3.190	3.190	3.190	3.191	3.191	3.191	3.191	3.191
3.711	I	F'	-18.149	-18.129	-18.108	-18.088	-18.068	-18.048	-18.028	-18.008	-17.989	-17.970
	I	F''	3.191	3.191	3.192	3.192	3.192	3.192	3.192	3.192	3.192	3.192
3.712	I	F'	-17.951	-17.932	-17.913	-17.894	-17.875	-17.857	-17.839	-17.821	-17.803	-17.785
	I	F''	3.193	3.193	3.193	3.193	3.193	3.193	3.193	3.194	3.194	3.194
3.713	I	F'	-17.767	-17.749	-17.732	-17.714	-17.697	-17.680	-17.663	-17.646	-17.629	-17.613
	I	F''	3.194	3.194	3.194	3.194	3.195	3.195	3.195	3.195	3.195	3.195

ATOMIC SYMBOL = CD		ATOMIC NUMBER = 48		L ₃ ABSORPTION EDGE (3.50470 Å; 3.5374 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
3.491	I	F'	-17.527	-17.544	-17.562	-17.580	-17.597	-17.615	-17.634	-17.652	-17.670
	I	F''	10.711	10.712	10.712	10.712	10.713	10.713	10.713	10.714	10.715
3.492	I	F'	-17.708	-17.726	-17.745	-17.765	-17.784	-17.804	-17.823	-17.843	-17.883
	I	F''	10.715	10.715	10.716	10.716	10.717	10.717	10.717	10.718	10.719
3.493	I	F'	-17.904	-17.924	-17.945	-17.966	-17.987	-18.008	-18.030	-18.051	-18.095
	I	F''	10.719	10.719	10.720	10.720	10.721	10.721	10.721	10.722	10.723
3.494	I	F'	-18.118	-18.140	-18.163	-18.186	-18.209	-18.232	-18.256	-18.280	-18.329
	I	F''	10.723	10.723	10.724	10.724	10.725	10.725	10.726	10.726	10.727
3.495	I	F'	-18.353	-18.378	-18.403	-18.429	-18.454	-18.480	-18.507	-18.533	-18.587
	I	F''	10.727	10.727	10.728	10.728	10.729	10.729	10.729	10.730	10.730
3.496	I	F'	-18.615	-18.643	-18.671	-18.699	-18.728	-18.757	-18.787	-18.817	-18.878
	I	F''	10.731	10.731	10.732	10.732	10.733	10.733	10.733	10.734	10.734
3.497	I	F'	-18.909	-18.941	-18.973	-19.005	-19.038	-19.071	-19.105	-19.139	-19.209
	I	F''	10.735	10.735	10.736	10.736	10.737	10.737	10.737	10.738	10.738
3.498	I	F'	-19.245	-19.282	-19.319	-19.356	-19.394	-19.433	-19.472	-19.513	-19.595
	I	F''	10.739	10.739	10.739	10.740	10.740	10.741	10.741	10.741	10.742
3.499	I	F'	-19.637	-19.680	-19.724	-19.768	-19.814	-19.860	-19.907	-19.955	-20.042
	I	F''	10.743	10.743	10.743	10.744	10.744	10.745	10.745	10.745	10.746
3.500	I	F'	-20.106	-20.158	-20.212	-20.266	-20.322	-20.380	-20.439	-20.499	-20.561
	I	F''	10.747	10.747	10.747	10.748	10.748	10.749	10.749	10.749	10.750
3.501	I	F'	-20.689	-20.756	-20.825	-20.896	-20.970	-21.045	-21.123	-21.204	-21.373
	I	F''	10.750	10.751	10.751	10.752	10.752	10.753	10.753	10.753	10.754
3.502	I	F'	-21.463	-21.556	-21.653	-21.754	-21.859	-21.969	-22.085	-22.206	-22.469
	I	F''	10.754	10.755	10.755	10.756	10.756	10.757	10.757	10.758	10.758
3.503	I	F'	-22.612	-22.764	-22.926	-23.100	-23.287	-23.491	-23.713	-23.958	-24.231
	I	F''	10.758	10.759	10.759	10.760	10.760	10.761	10.761	10.761	10.762
3.504	I	F'	-24.891	-25.305	-25.805	-26.436	-27.295	-28.643	-31.992	-30.265	-28.071
	I	F''	10.762	10.763	10.763	10.763	10.764	10.764	10.765	10.765	10.766
3.505	I	F'	-26.181	-26.602	-27.136	-27.784	-28.561	-29.477	-30.535	-31.748	-33.126
	I	F''	3.208	3.208	3.208	3.208	3.209	3.209	3.209	3.209	3.209
3.506	I	F'	-23.024	-23.554	-24.196	-24.952	-25.834	-26.854	-28.014	-29.317	-30.767
	I	F''	3.209	3.210	3.210	3.210	3.210	3.210	3.210	3.211	3.211
3.507	I	F'	-21.705	-22.345	-23.095	-23.965	-24.965	-26.105	-27.385	-28.815	-30.445
	I	F''	3.211	3.211	3.211	3.211	3.212	3.212	3.212	3.212	3.212
3.508	I	F'	-20.859	-21.599	-22.459	-23.439	-24.549	-25.809	-27.219	-28.789	-30.519
	I	F''	3.212	3.213	3.213	3.213	3.213	3.213	3.213	3.214	3.214
3.509	I	F'	-20.233	-21.073	-22.023	-23.093	-24.293	-25.633	-27.113	-28.743	-30.523
	I	F''	3.214	3.214	3.214	3.214	3.215	3.215	3.215	3.215	3.215
3.510	I	F'	-19.737	-20.677	-21.727	-22.907	-24.227	-25.687	-27.297	-29.057	-30.977
	I	F''	3.215	3.215	3.216	3.216	3.216	3.216	3.216	3.216	3.217
3.511	I	F'	-19.326	-20.366	-21.516	-22.786	-24.186	-25.726	-27.406	-29.226	-31.186
	I	F''	3.217	3.217	3.217	3.217	3.217	3.218	3.218	3.218	3.218
3.512	I	F'	-18.974	-19.914	-21.064	-22.334	-23.734	-25.274	-26.954	-28.774	-30.734
	I	F''	3.218	3.218	3.218	3.219	3.219	3.219	3.219	3.219	3.219
3.513	I	F'	-18.667	-19.607	-20.757	-22.027	-23.427	-24.967	-26.647	-28.467	-30.427
	I	F''	3.220	3.220	3.220	3.220	3.220	3.220	3.221	3.221	3.221
3.514	I	F'	-18.395	-19.335	-20.485	-21.755	-23.155	-24.695	-26.375	-28.195	-30.255
	I	F''	3.221	3.221	3.221	3.221	3.222	3.222	3.222	3.222	3.222
3.515	I	F'	-18.150	-19.090	-20.240	-21.510	-22.910	-24.450	-26.130	-27.950	-30.010
	I	F''	3.222	3.223	3.223	3.223	3.223	3.223	3.223	3.224	3.224
3.516	I	F'	-17.927	-18.867	-20.017	-21.287	-22.687	-24.227	-25.907	-27.727	-29.687
	I	F''	3.224	3.224	3.224	3.224	3.225	3.225	3.225	3.225	3.225
3.517	I	F'	-17.723	-18.663	-19.813	-21.083	-22.483	-24.023	-25.703	-27.523	-29.583
	I	F''	3.225	3.226	3.226	3.226	3.226	3.226	3.226	3.227	3.227
3.518	I	F'	-17.535	-18.475	-19.625	-20.895	-22.295	-23.835	-25.515	-27.335	-29.395
	I	F''	3.227	3.227	3.227	3.227	3.228	3.228	3.228	3.228	3.228

ATOMIC SYMBOL = IN		ATOMIC NUMBER = 49		L ₃ ABSORPTION EDGE (3.32370 Å; 3.7301 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
3.310	I F'	-17.219	-17.237	-17.255	-17.274	-17.292	-17.311	-17.330	-17.349	-17.368	-17.388
	I F''	10.956	10.957	10.958	10.959	10.959	10.960	10.961	10.961	10.962	10.963
3.311	I F'	-17.407	-17.427	-17.447	-17.467	-17.487	-17.507	-17.528	-17.548	-17.569	-17.590
	I F''	10.963	10.964	10.965	10.965	10.966	10.967	10.967	10.968	10.969	10.969
3.312	I F'	-17.611	-17.633	-17.654	-17.676	-17.698	-17.720	-17.743	-17.765	-17.788	-17.811
	I F''	10.970	10.971	10.971	10.972	10.973	10.974	10.974	10.975	10.976	10.976
3.313	I F'	-17.834	-17.857	-17.881	-17.905	-17.929	-17.953	-17.978	-18.003	-18.028	-18.053
	I F''	10.977	10.978	10.978	10.979	10.980	10.980	10.981	10.982	10.982	10.983
3.314	I F'	-18.079	-18.105	-18.131	-18.157	-18.184	-18.211	-18.238	-18.266	-18.294	-18.322
	I F''	10.984	10.984	10.985	10.986	10.986	10.987	10.988	10.989	10.989	10.990
3.315	I F'	-18.351	-18.379	-18.409	-18.438	-18.468	-18.499	-18.529	-18.560	-18.592	-18.624
	I F''	10.991	10.991	10.992	10.993	10.993	10.994	10.995	10.995	10.996	10.997
3.316	I F'	-18.656	-18.689	-18.722	-18.755	-18.789	-18.824	-18.859	-18.894	-18.930	-18.967
	I F''	10.997	10.998	10.999	10.999	11.000	11.001	11.002	11.002	11.003	11.004
3.317	I F'	-19.004	-19.042	-19.080	-19.119	-19.158	-19.198	-19.239	-19.280	-19.322	-19.365
	I F''	11.004	11.005	11.006	11.006	11.007	11.008	11.008	11.009	11.010	11.010
3.318	I F'	-19.409	-19.453	-19.498	-19.544	-19.591	-19.639	-19.688	-19.737	-19.788	-19.840
	I F''	11.011	11.012	11.012	11.013	11.014	11.015	11.015	11.016	11.017	11.017
3.319	I F'	-19.893	-19.947	-20.002	-20.058	-20.116	-20.175	-20.235	-20.297	-20.361	-20.426
	I F''	11.018	11.019	11.019	11.020	11.021	11.021	11.022	11.023	11.023	11.024
3.320	I F'	-20.493	-20.562	-20.633	-20.706	-20.781	-20.858	-20.938	-21.021	-21.106	-21.194
	I F''	11.025	11.026	11.026	11.027	11.028	11.028	11.029	11.030	11.030	11.031
3.321	I F'	-21.286	-21.381	-21.480	-21.583	-21.690	-21.802	-21.920	-22.043	-22.172	-22.309
	I F''	11.032	11.032	11.033	11.034	11.034	11.035	11.036	11.036	11.037	11.038
3.322	I F'	-22.454	-22.607	-22.771	-22.946	-23.134	-23.338	-23.560	-23.803	-24.073	-24.375
	I F''	11.039	11.039	11.040	11.041	11.041	11.042	11.043	11.043	11.044	11.045
3.323	I F'	-24.720	-25.119	-25.595	-26.184	-26.957	-27.883	-30.197	-32.839	-28.868	-27.413
	I F''	11.045	11.046	11.047	11.047	11.048	11.049	11.050	3.235	3.235	3.235
3.324	I F'	-26.503	-25.838	-25.315	-24.883	-24.515	-24.195	-23.912	-23.658	-23.427	-23.216
	I F''	3.235	3.236	3.236	3.236	3.236	3.236	3.236	3.236	3.237	3.237
3.325	I F'	-23.022	-22.842	-22.674	-22.516	-22.369	-22.229	-22.097	-21.971	-21.852	-21.738
	I F''	3.237	3.237	3.237	3.237	3.238	3.238	3.238	3.238	3.238	3.238
3.326	I F'	-21.629	-21.525	-21.425	-21.329	-21.236	-21.147	-21.061	-20.978	-20.897	-20.819
	I F''	3.238	3.239	3.239	3.239	3.239	3.239	3.239	3.240	3.240	3.240
3.327	I F'	-20.744	-20.670	-20.599	-20.530	-20.462	-20.397	-20.333	-20.271	-20.210	-20.151
	I F''	3.240	3.240	3.240	3.240	3.241	3.241	3.241	3.241	3.241	3.241
3.328	I F'	-20.093	-20.036	-19.981	-19.927	-19.874	-19.822	-19.771	-19.721	-19.673	-19.625
	I F''	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.243	3.243	3.243
3.329	I F'	-19.578	-19.532	-19.487	-19.442	-19.399	-19.356	-19.314	-19.272	-19.231	-19.191
	I F''	3.243	3.243	3.243	3.244	3.244	3.244	3.244	3.244	3.244	3.244
3.330	I F'	-19.152	-19.115	-19.075	-19.037	-19.000	-18.964	-18.928	-18.892	-18.857	-18.823
	I F''	3.245	3.245	3.245	3.245	3.245	3.245	3.246	3.246	3.246	3.246
3.331	I F'	-18.789	-18.755	-18.722	-18.689	-18.657	-18.625	-18.594	-18.563	-18.532	-18.502
	I F''	3.246	3.246	3.246	3.247	3.247	3.247	3.247	3.247	3.247	3.248
3.332	I F'	-18.472	-18.442	-18.413	-18.384	-18.356	-18.328	-18.300	-18.272	-18.245	-18.218
	I F''	3.248	3.248	3.248	3.248	3.248	3.248	3.249	3.249	3.249	3.249
3.333	I F'	-18.191	-18.165	-18.139	-18.113	-18.087	-18.062	-18.037	-18.012	-17.987	-17.963
	I F''	3.249	3.249	3.250	3.250	3.250	3.250	3.250	3.250	3.250	3.251
3.334	I F'	-17.939	-17.915	-17.891	-17.868	-17.845	-17.822	-17.799	-17.777	-17.754	-17.732
	I F''	3.251	3.251	3.251	3.251	3.251	3.252	3.252	3.252	3.252	3.252
3.335	I F'	-17.710	-17.688	-17.667	-17.645	-17.624	-17.603	-17.582	-17.562	-17.541	-17.521
	I F''	3.252	3.252	3.253	3.253	3.253	3.253	3.253	3.253	3.254	3.254
3.336	I F'	-17.501	-17.481	-17.461	-17.441	-17.421	-17.402	-17.383	-17.364	-17.345	-17.326
	I F''	3.254	3.254	3.254	3.254	3.254	3.255	3.255	3.255	3.255	3.255
3.337	I F'	-17.307	-17.289	-17.270	-17.252	-17.234	-17.216	-17.198	-17.181	-17.163	-17.145
	I F''	3.255	3.256	3.256	3.256	3.256	3.256	3.256	3.256	3.257	3.257

ATOMIC SYMBOL = SN		ATOMIC NUMBER = 50		L ₃ ABSORPTION EDGE (3.15570 Å; 3.9286 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
3.142	I F'	-16.884	-16.902	-16.921	-16.939	-16.958	-16.977	-16.996	-17.016	-17.035	-17.055
	I F''	10.986	10.986	10.987	10.988	10.989	10.990	10.990	10.991	10.992	10.993
3.143	I F'	-17.075	-17.095	-17.115	-17.135	-17.155	-17.176	-17.197	-17.218	-17.239	-17.260
	I F''	10.994	10.994	10.995	10.996	10.997	10.998	10.998	10.999	11.000	11.001
3.144	I F'	-17.282	-17.303	-17.325	-17.347	-17.370	-17.392	-17.415	-17.438	-17.461	-17.484
	I F''	11.002	11.002	11.003	11.004	11.005	11.006	11.006	11.007	11.008	11.009
3.145	I F'	-17.508	-17.531	-17.555	-17.579	-17.604	-17.629	-17.654	-17.679	-17.704	-17.730
	I F''	11.010	11.010	11.011	11.012	11.013	11.014	11.014	11.015	11.016	11.017
3.146	I F'	-17.756	-17.782	-17.809	-17.836	-17.863	-17.890	-17.918	-17.946	-17.974	-18.003
	I F''	11.018	11.019	11.019	11.020	11.021	11.022	11.023	11.023	11.024	11.025
3.147	I F'	-18.032	-18.062	-18.091	-18.121	-18.152	-18.183	-18.214	-18.245	-18.277	-18.310
	I F''	11.026	11.027	11.027	11.028	11.029	11.030	11.031	11.031	11.032	11.033
3.148	I F'	-18.343	-18.376	-18.410	-18.444	-18.479	-18.514	-18.549	-18.586	-18.622	-18.660
	I F''	11.034	11.035	11.035	11.036	11.037	11.038	11.039	11.039	11.040	11.041
3.149	I F'	-18.697	-18.736	-18.775	-18.814	-18.855	-18.895	-18.937	-18.979	-19.022	-19.066
	I F''	11.042	11.043	11.044	11.044	11.045	11.046	11.047	11.048	11.048	11.049
3.150	I F'	-19.111	-19.156	-19.202	-19.249	-19.297	-19.346	-19.396	-19.447	-19.499	-19.552
	I F''	11.050	11.051	11.052	11.052	11.053	11.054	11.055	11.056	11.056	11.057
3.151	I F'	-19.606	-19.661	-19.718	-19.776	-19.835	-19.896	-19.958	-20.022	-20.087	-20.154
	I F''	11.058	11.059	11.060	11.060	11.061	11.062	11.063	11.064	11.065	11.065
3.152	I F'	-20.223	-20.294	-20.367	-20.443	-20.520	-20.600	-20.683	-20.769	-20.857	-20.949
	I F''	11.066	11.067	11.068	11.069	11.069	11.070	11.071	11.072	11.073	11.073
3.153	I F'	-21.044	-21.143	-21.246	-21.354	-21.466	-21.584	-21.707	-21.837	-21.974	-22.118
	I F''	11.074	11.075	11.076	11.077	11.078	11.078	11.079	11.080	11.081	11.082
3.154	I F'	-22.272	-22.436	-22.611	-22.799	-23.003	-23.224	-23.467	-23.737	-24.038	-24.382
	I F''	11.082	11.083	11.084	11.085	11.086	11.086	11.087	11.088	11.089	11.090
3.155	I F'	-24.780	-25.253	-25.837	-26.602	-27.709	-29.747	-33.007	-28.642	-27.145	-26.217
	I F''	11.090	11.091	11.092	11.093	11.094	11.095	3.261	3.262	3.262	3.262
3.156	I F'	-25.544	-25.014	-24.578	-24.208	-23.885	-23.600	-23.344	-23.112	-22.900	-22.705
	I F''	3.262	3.262	3.262	3.263	3.263	3.263	3.263	3.263	3.263	3.264
3.157	I F'	-22.524	-22.355	-22.197	-22.048	-21.908	-21.776	-21.650	-21.530	-21.416	-21.307
	I F''	3.264	3.264	3.264	3.264	3.264	3.265	3.265	3.265	3.265	3.265
3.158	I F'	-21.202	-21.102	-21.005	-20.912	-20.823	-20.737	-20.653	-20.573	-20.494	-20.419
	I F''	3.265	3.265	3.266	3.266	3.266	3.266	3.266	3.266	3.267	3.267
3.159	I F'	-20.345	-20.274	-20.204	-20.137	-20.071	-20.007	-19.945	-19.884	-19.824	-19.766
	I F''	3.267	3.267	3.267	3.267	3.268	3.268	3.268	3.268	3.268	3.268
3.160	I F'	-19.710	-19.654	-19.600	-19.547	-19.495	-19.444	-19.395	-19.346	-19.298	-19.251
	I F''	3.269	3.269	3.269	3.269	3.269	3.269	3.270	3.270	3.270	3.270
3.161	I F'	-19.205	-19.159	-19.115	-19.071	-19.028	-18.986	-18.945	-18.904	-18.864	-18.824
	I F''	3.270	3.270	3.271	3.271	3.271	3.271	3.271	3.271	3.272	3.272
3.162	I F'	-18.786	-18.747	-18.710	-18.673	-18.636	-18.600	-18.565	-18.530	-18.495	-18.461
	I F''	3.272	3.272	3.272	3.272	3.273	3.273	3.273	3.273	3.273	3.273
3.163	I F'	-18.427	-18.394	-18.362	-18.332	-18.298	-18.266	-18.235	-18.204	-18.174	-18.144
	I F''	3.274	3.274	3.274	3.274	3.274	3.274	3.274	3.275	3.275	3.275
3.164	I F'	-18.015	-18.085	-18.057	-18.028	-18.000	-17.972	-17.944	-17.917	-17.890	-17.863
	I F''	3.275	3.275	3.276	3.276	3.276	3.276	3.276	3.276	3.276	3.277
3.165	I F'	-17.837	-17.811	-17.785	-17.759	-17.734	-17.709	-17.684	-17.660	-17.635	-17.611
	I F''	3.277	3.277	3.277	3.277	3.277	3.278	3.278	3.278	3.278	3.278
3.166	I F'	-17.588	-17.564	-17.540	-17.517	-17.494	-17.472	-17.449	-17.427	-17.405	-17.383
	I F''	3.278	3.279	3.279	3.279	3.279	3.279	3.279	3.280	3.280	3.280
3.167	I F'	-17.361	-17.339	-17.318	-17.297	-17.276	-17.255	-17.234	-17.214	-17.194	-17.173
	I F''	3.280	3.280	3.280	3.281	3.281	3.281	3.281	3.281	3.281	3.282
3.168	I F'	-17.153	-17.134	-17.114	-17.094	-17.075	-17.056	-17.037	-17.018	-16.999	-16.980
	I F''	3.282	3.282	3.282	3.282	3.282	3.283	3.283	3.283	3.283	3.283
3.169	I F'	-16.962	-16.944	-16.925	-16.907	-16.889	-16.871	-16.854	-16.836	-16.819	-16.801
	I F''	3.283	3.284	3.284	3.284	3.284	3.284	3.284	3.284	3.285	3.285

ATOMIC SYMBOL = SB		ATOMIC NUMBER = 51		L ₃ ABSORPTION EDGE (3.00030 Å; 4.1321 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.986	I F'	-16.420	-16.437	-16.455	-16.472	-16.490	-16.508	-16.526	-16.544	-16.563	-16.581
	I F''	10.945	10.946	10.947	10.948	10.949	10.950	10.950	10.951	10.952	10.953
2.987	I F'	-16.600	-16.619	-16.638	-16.657	-16.676	-16.696	-16.715	-16.735	-16.755	-16.775
	I F''	10.954	10.955	10.956	10.956	10.957	10.958	10.959	10.960	10.961	10.962
2.988	I F'	-16.795	-16.815	-16.836	-16.857	-16.877	-16.898	-16.920	-16.941	-16.963	-16.985
	I F''	10.962	10.963	10.964	10.965	10.966	10.967	10.968	10.969	10.970	10.971
2.989	I F'	-17.007	-17.029	-17.051	-17.074	-17.097	-17.120	-17.143	-17.166	-17.190	-17.214
	I F''	10.971	10.972	10.973	10.974	10.975	10.976	10.977	10.978	10.979	10.980
2.990	I F'	-17.238	-17.263	-17.287	-17.312	-17.337	-17.363	-17.388	-17.414	-17.440	-17.467
	I F''	10.980	10.981	10.981	10.982	10.983	10.984	10.985	10.986	10.987	10.988
2.991	I F'	-17.494	-17.521	-17.548	-17.576	-17.604	-17.632	-17.661	-17.690	-17.719	-17.749
	I F''	10.988	10.989	10.990	10.991	10.992	10.993	10.994	10.995	10.996	10.997
2.992	I F'	-17.779	-17.809	-17.840	-17.871	-17.903	-17.934	-17.967	-18.000	-18.033	-18.066
	I F''	10.997	10.998	10.999	11.000	11.001	11.001	11.002	11.003	11.004	11.005
2.993	I F'	-18.101	-18.135	-18.170	-18.206	-18.242	-18.279	-18.316	-18.354	-18.392	-18.431
	I F''	11.006	11.007	11.007	11.008	11.009	11.010	11.011	11.012	11.013	11.014
2.994	I F'	-18.470	-18.511	-18.552	-18.593	-18.635	-18.678	-18.722	-18.766	-18.812	-18.858
	I F''	11.014	11.015	11.016	11.017	11.018	11.019	11.020	11.021	11.021	11.022
2.995	I F'	-18.905	-18.953	-19.002	-19.052	-19.102	-19.154	-19.207	-19.261	-19.317	-19.373
	I F''	11.023	11.024	11.025	11.026	11.027	11.027	11.028	11.029	11.030	11.031
2.996	I F'	-19.431	-19.491	-19.551	-19.614	-19.678	-19.743	-19.810	-19.880	-19.951	-20.024
	I F''	11.032	11.033	11.034	11.034	11.035	11.036	11.037	11.038	11.039	11.040
2.997	I F'	-20.099	-20.177	-20.257	-20.340	-20.426	-20.515	-20.607	-20.703	-20.802	-20.906
	I F''	11.041	11.041	11.042	11.043	11.044	11.045	11.046	11.047	11.048	11.048
2.998	I F'	-21.014	-21.127	-21.246	-21.370	-21.501	-21.639	-21.785	-21.940	-22.106	-22.283
	I F''	11.049	11.050	11.051	11.052	11.053	11.054	11.054	11.055	11.056	11.057
2.999	I F'	-22.474	-22.681	-22.907	-23.155	-23.431	-23.741	-24.095	-24.509	-25.005	-25.626
	I F''	11.058	11.059	11.060	11.061	11.061	11.062	11.063	11.064	11.065	11.066
3.000	I F'	-26.457	-27.713	-30.388	-30.475	-27.716	-26.446	-25.612	-24.990	-24.494	-24.081
	I F''	11.067	11.068	11.068	3.288	3.288	3.289	3.289	3.289	3.289	3.289
3.001	I F'	-23.727	-23.418	-23.144	-22.897	-22.672	-22.467	-22.277	-22.101	-21.936	-21.782
	I F''	3.289	3.290	3.290	3.290	3.290	3.290	3.290	3.291	3.291	3.291
3.002	I F'	-21.637	-21.500	-21.370	-21.247	-21.130	-21.018	-20.911	-20.808	-20.710	-20.615
	I F''	3.291	3.291	3.292	3.292	3.292	3.292	3.292	3.292	3.293	3.293
3.003	I F'	-20.524	-20.436	-20.351	-20.269	-20.189	-20.112	-20.038	-19.965	-19.895	-19.827
	I F''	3.293	3.293	3.293	3.293	3.294	3.294	3.294	3.294	3.294	3.294
3.004	I F'	-19.760	-19.696	-19.633	-19.571	-19.511	-19.452	-19.395	-19.339	-19.285	-19.231
	I F''	3.295	3.295	3.295	3.295	3.296	3.296	3.296	3.296	3.296	3.296
3.005	I F'	-19.179	-19.128	-19.078	-19.028	-18.980	-18.933	-18.887	-18.841	-18.796	-18.753
	I F''	3.296	3.297	3.297	3.297	3.297	3.297	3.297	3.298	3.298	3.298
3.006	I F'	-18.709	-18.667	-18.625	-18.584	-18.544	-18.505	-18.466	-18.427	-18.389	-18.352
	I F''	3.298	3.298	3.298	3.299	3.299	3.299	3.299	3.299	3.300	3.300
3.007	I F'	-18.316	-18.279	-18.244	-18.209	-18.174	-18.140	-18.106	-18.073	-18.041	-18.008
	I F''	3.300	3.300	3.300	3.300	3.301	3.301	3.301	3.301	3.301	3.301
3.008	I F'	-17.976	-17.945	-17.914	-17.883	-17.853	-17.823	-17.793	-17.764	-17.735	-17.707
	I F''	3.302	3.302	3.302	3.302	3.302	3.303	3.303	3.303	3.303	3.303
3.009	I F'	-17.678	-17.651	-17.623	-17.596	-17.569	-17.542	-17.516	-17.490	-17.464	-17.438
	I F''	3.303	3.304	3.304	3.304	3.304	3.304	3.305	3.305	3.305	3.305
3.010	I F'	-17.413	-17.388	-17.363	-17.339	-17.314	-17.290	-17.266	-17.243	-17.219	-17.196
	I F''	3.305	3.305	3.305	3.306	3.306	3.306	3.306	3.306	3.307	3.307
3.011	I F'	-17.173	-17.151	-17.128	-17.106	-17.084	-17.062	-17.040	-17.019	-16.997	-16.976
	I F''	3.307	3.307	3.307	3.307	3.308	3.308	3.308	3.308	3.308	3.308
3.012	I F'	-16.955	-16.935	-16.914	-16.893	-16.873	-16.853	-16.833	-16.813	-16.794	-16.774
	I F''	3.309	3.309	3.309	3.309	3.309	3.310	3.310	3.310	3.310	3.310
3.013	I F'	-16.755	-16.736	-16.717	-16.698	-16.679	-16.661	-16.642	-16.624	-16.606	-16.588
	I F''	3.310	3.311	3.311	3.311	3.311	3.311	3.311	3.312	3.312	3.312

ATOMIC SYMBOL = TE ATOMIC NUMBER = 52 L₃ ABSORPTION EDGE (2.85550 Å; 4.3417 KEV)

I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.842	I	F'	-16.194	-16.212	-16.230	-16.248	-16.267	-16.285	-16.304	-16.323	-16.342
	I	F''	10.880	10.881	10.882	10.883	10.884	10.885	10.886	10.887	10.888
2.843	I	F'	-16.380	-16.400	-16.419	-16.439	-16.459	-16.479	-16.499	-16.520	-16.540
	I	F''	10.889	10.890	10.891	10.892	10.893	10.894	10.895	10.896	10.897
2.844	I	F'	-16.583	-16.604	-16.625	-16.647	-16.668	-16.690	-16.712	-16.735	-16.757
	I	F''	10.898	10.899	10.900	10.901	10.902	10.903	10.904	10.905	10.906
2.845	I	F'	-16.803	-16.826	-16.849	-16.873	-16.897	-16.921	-16.945	-16.970	-16.994
	I	F''	10.907	10.908	10.909	10.910	10.911	10.912	10.913	10.914	10.915
2.846	I	F'	-17.045	-17.070	-17.096	-17.122	-17.149	-17.175	-17.202	-17.230	-17.257
	I	F''	10.916	10.917	10.918	10.919	10.920	10.921	10.922	10.923	10.924
2.847	I	F'	-17.313	-17.342	-17.371	-17.400	-17.429	-17.459	-17.490	-17.520	-17.551
	I	F''	10.925	10.926	10.927	10.928	10.929	10.930	10.931	10.932	10.933
2.848	I	F'	-17.615	-17.647	-17.680	-17.713	-17.747	-17.781	-17.815	-17.850	-17.886
	I	F''	10.934	10.935	10.936	10.937	10.938	10.939	10.940	10.941	10.942
2.849	I	F'	-17.959	-17.996	-18.033	-18.072	-18.111	-18.150	-18.190	-18.231	-18.273
	I	F''	10.943	10.944	10.945	10.946	10.947	10.948	10.949	10.950	10.951
2.850	I	F'	-18.358	-18.402	-18.447	-18.492	-18.538	-18.585	-18.633	-18.682	-18.732
	I	F''	10.952	10.953	10.954	10.955	10.956	10.957	10.958	10.959	10.960
2.851	I	F'	-18.836	-18.889	-18.943	-18.999	-19.056	-19.114	-19.174	-19.233	-19.297
	I	F''	10.961	10.962	10.963	10.964	10.965	10.966	10.967	10.968	10.969
2.852	I	F'	-19.428	-19.496	-19.565	-19.637	-19.711	-19.788	-19.866	-19.948	-20.032
	I	F''	10.970	10.971	10.972	10.973	10.974	10.975	10.976	10.977	10.978
2.853	I	F'	-20.209	-20.302	-20.400	-20.501	-20.607	-20.717	-20.833	-20.954	-21.082
	I	F''	10.979	10.980	10.981	10.982	10.983	10.984	10.985	10.986	10.987
2.854	I	F'	-21.358	-21.509	-21.670	-21.842	-22.027	-22.217	-22.413	-22.614	-22.820
	I	F''	10.988	10.989	10.990	10.991	10.992	10.993	10.994	10.995	10.996
2.855	I	F'	-23.583	-23.975	-24.441	-25.017	-25.770	-26.604	-27.519	-28.519	-29.596
	I	F''	10.997	10.998	10.999	11.000	11.001	11.002	11.003	11.004	11.005
2.856	I	F'	-25.371	-24.712	-24.195	-23.768	-23.405	-23.089	-22.810	-22.559	-22.332
	I	F''	3.315	3.316	3.317	3.318	3.319	3.320	3.321	3.322	3.323
2.857	I	F'	-21.933	-21.755	-21.590	-21.435	-21.289	-21.152	-21.022	-20.899	-20.781
	I	F''	3.317	3.318	3.319	3.320	3.321	3.322	3.323	3.324	3.325
2.858	I	F'	-20.562	-20.460	-20.362	-20.267	-20.176	-20.088	-20.004	-19.922	-19.843
	I	F''	3.319	3.320	3.321	3.322	3.323	3.324	3.325	3.326	3.327
2.859	I	F'	-19.692	-19.620	-19.550	-19.482	-19.416	-19.351	-19.289	-19.227	-19.168
	I	F''	3.321	3.322	3.323	3.324	3.325	3.326	3.327	3.328	3.329
2.860	I	F'	-19.053	-18.997	-18.943	-18.890	-18.838	-18.787	-18.737	-18.688	-18.641
	I	F''	3.323	3.324	3.325	3.326	3.327	3.328	3.329	3.330	3.331
2.861	I	F'	-18.548	-18.502	-18.458	-18.414	-18.372	-18.330	-18.288	-18.248	-18.208
	I	F''	3.324	3.325	3.326	3.327	3.328	3.329	3.330	3.331	3.332
2.862	I	F'	-18.130	-18.092	-18.054	-18.017	-17.981	-17.945	-17.910	-17.875	-17.841
	I	F''	3.326	3.327	3.328	3.329	3.330	3.331	3.332	3.333	3.334
2.863	I	F'	-17.774	-17.741	-17.708	-17.676	-17.645	-17.614	-17.583	-17.552	-17.522
	I	F''	3.328	3.329	3.330	3.331	3.332	3.333	3.334	3.335	3.336
2.864	I	F'	-17.463	-17.434	-17.406	-17.378	-17.350	-17.322	-17.295	-17.268	-17.241
	I	F''	3.330	3.331	3.332	3.333	3.334	3.335	3.336	3.337	3.338
2.865	I	F'	-17.188	-17.163	-17.137	-17.112	-17.087	-17.062	-17.037	-17.013	-16.989
	I	F''	3.332	3.333	3.334	3.335	3.336	3.337	3.338	3.339	3.340
2.866	I	F'	-16.942	-16.918	-16.895	-16.872	-16.850	-16.827	-16.805	-16.783	-16.761
	I	F''	3.334	3.335	3.336	3.337	3.338	3.339	3.340	3.341	3.342
2.867	I	F'	-16.718	-16.696	-16.675	-16.654	-16.634	-16.613	-16.593	-16.573	-16.553
	I	F''	3.336	3.337	3.338	3.339	3.340	3.341	3.342	3.343	3.344
2.868	I	F'	-16.513	-16.493	-16.474	-16.455	-16.436	-16.417	-16.398	-16.379	-16.362
	I	F''	3.337	3.338	3.339	3.340	3.341	3.342	3.343	3.344	3.345
2.869	I	F'	-16.324	-16.306	-16.288	-16.270	-16.252	-16.235	-16.217	-16.200	-16.183
	I	F''	3.339	3.340	3.341	3.342	3.343	3.344	3.345	3.346	3.347

ATOMIC SYMBOL = I ATOMIC NUMBER = 53 L₃ ABSORPTION EDGE (2.71960 Å; 4.5586 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.707	I	F'	-15.906	-15.924	-15.942	-15.960	-15.979	-15.997	-16.016	-16.035	-16.054	-16.073
	I	F''	10.810	10.811	10.812	10.813	10.814	10.815	10.816	10.817	10.818	10.819
2.708	I	F'	-16.092	-16.112	-16.131	-16.151	-16.171	-16.191	-16.212	-16.232	-16.253	-16.274
	I	F''	10.819	10.820	10.821	10.822	10.823	10.824	10.825	10.826	10.827	10.828
2.709	I	F'	-16.295	-16.316	-16.337	-16.359	-16.380	-16.402	-16.425	-16.447	-16.470	-16.492
	I	F''	10.828	10.829	10.830	10.831	10.832	10.833	10.834	10.835	10.836	10.837
2.710	I	F'	-16.515	-16.539	-16.562	-16.586	-16.610	-16.634	-16.658	-16.683	-16.708	-16.733
	I	F''	10.837	10.838	10.839	10.840	10.841	10.842	10.843	10.844	10.845	10.846
2.711	I	F'	-16.758	-16.784	-16.810	-16.836	-16.863	-16.890	-16.917	-16.944	-16.972	-17.000
	I	F''	10.846	10.847	10.848	10.849	10.850	10.851	10.852	10.853	10.854	10.855
2.712	I	F'	-17.029	-17.058	-17.087	-17.116	-17.146	-17.176	-17.207	-17.238	-17.269	-17.301
	I	F''	10.855	10.856	10.857	10.858	10.859	10.860	10.861	10.862	10.863	10.864
2.713	I	F'	-17.333	-17.366	-17.399	-17.432	-17.466	-17.501	-17.536	-17.571	-17.607	-17.644
	I	F''	10.865	10.866	10.867	10.868	10.869	10.870	10.871	10.872	10.873	10.874
2.714	I	F'	-17.681	-17.718	-17.757	-17.796	-17.835	-17.875	-17.916	-17.958	-18.000	-18.043
	I	F''	10.874	10.875	10.876	10.877	10.878	10.879	10.880	10.881	10.882	10.883
2.715	I	F'	-18.087	-18.131	-18.177	-18.223	-18.270	-18.318	-18.367	-18.417	-18.469	-18.521
	I	F''	10.883	10.884	10.885	10.886	10.887	10.888	10.889	10.890	10.891	10.892
2.716	I	F'	-18.574	-18.629	-18.684	-18.742	-18.800	-18.860	-18.921	-18.984	-19.049	-19.116
	I	F''	10.892	10.893	10.894	10.895	10.896	10.897	10.898	10.899	10.900	10.901
2.717	I	F'	-19.184	-19.254	-19.327	-19.401	-19.478	-19.558	-19.640	-19.725	-19.813	-19.904
	I	F''	10.902	10.903	10.904	10.905	10.906	10.907	10.908	10.909	10.910	10.911
2.718	I	F'	-19.999	-20.098	-20.201	-20.308	-20.421	-20.539	-20.662	-20.793	-20.931	-21.077
	I	F''	10.911	10.912	10.913	10.914	10.915	10.916	10.917	10.918	10.919	10.920
2.719	I	F'	-21.233	-21.399	-21.577	-21.770	-21.979	-22.208	-22.460	-22.742	-23.061	-23.429
	I	F''	10.920	10.921	10.922	10.923	10.924	10.925	10.926	10.927	10.928	10.929
2.720	I	F'	-23.862	-24.390	-25.065	-26.005	-27.563	-33.221	-38.032	-42.923	-47.898	-52.958
	I	F''	10.929	10.930	10.931	10.932	10.933	10.934	10.935	10.936	10.937	10.938
2.721	I	F'	-25.938	-26.490	-27.113	-27.888	-28.801	-29.844	-31.019	-32.327	-33.770	-35.258
	I	F''	3.341	3.342	3.343	3.344	3.345	3.346	3.347	3.348	3.349	3.350
2.722	I	F'	-21.261	-21.105	-20.958	-20.820	-20.689	-20.565	-20.448	-20.335	-20.228	-20.125
	I	F''	3.343	3.344	3.345	3.346	3.347	3.348	3.349	3.350	3.351	3.352
2.723	I	F'	-20.027	-19.932	-19.841	-19.754	-19.669	-19.588	-19.509	-19.432	-19.358	-19.286
	I	F''	3.345	3.346	3.347	3.348	3.349	3.350	3.351	3.352	3.353	3.354
2.724	I	F'	-19.216	-19.149	-19.083	-19.019	-18.956	-18.895	-18.836	-18.778	-18.721	-18.666
	I	F''	3.347	3.348	3.349	3.350	3.351	3.352	3.353	3.354	3.355	3.356
2.725	I	F'	-18.612	-18.559	-18.508	-18.457	-18.407	-18.359	-18.311	-18.265	-18.219	-18.174
	I	F''	3.349	3.350	3.351	3.352	3.353	3.354	3.355	3.356	3.357	3.358
2.726	I	F'	-18.130	-18.087	-18.044	-18.003	-17.962	-17.921	-17.882	-17.843	-17.804	-17.766
	I	F''	3.351	3.352	3.353	3.354	3.355	3.356	3.357	3.358	3.359	3.360
2.727	I	F'	-17.729	-17.693	-17.656	-17.621	-17.586	-17.551	-17.517	-17.484	-17.451	-17.418
	I	F''	3.353	3.354	3.355	3.356	3.357	3.358	3.359	3.360	3.361	3.362
2.728	I	F'	-17.386	-17.354	-17.323	-17.292	-17.262	-17.231	-17.202	-17.172	-17.143	-17.114
	I	F''	3.355	3.356	3.357	3.358	3.359	3.360	3.361	3.362	3.363	3.364
2.729	I	F'	-17.086	-17.058	-17.030	-17.003	-16.976	-16.949	-16.923	-16.897	-16.871	-16.845
	I	F''	3.357	3.357	3.357	3.357	3.357	3.358	3.358	3.358	3.358	3.358
2.730	I	F'	-16.820	-16.795	-16.770	-16.745	-16.721	-16.697	-16.673	-16.650	-16.626	-16.603
	I	F''	3.359	3.359	3.359	3.359	3.359	3.359	3.360	3.360	3.360	3.360
2.731	I	F'	-16.580	-16.558	-16.535	-16.513	-16.491	-16.469	-16.447	-16.426	-16.405	-16.383
	I	F''	3.360	3.361	3.361	3.361	3.361	3.362	3.362	3.362	3.362	3.362
2.732	I	F'	-16.363	-16.342	-16.321	-16.301	-16.281	-16.261	-16.241	-16.221	-16.202	-16.182
	I	F''	3.362	3.363	3.363	3.363	3.363	3.363	3.364	3.364	3.364	3.364
2.733	I	F'	-16.163	-16.144	-16.125	-16.106	-16.088	-16.069	-16.051	-16.033	-16.015	-15.997
	I	F''	3.364	3.365	3.365	3.365	3.365	3.366	3.366	3.366	3.366	3.366
2.734	I	F'	-15.979	-15.961	-15.944	-15.927	-15.909	-15.892	-15.875	-15.858	-15.842	-15.825
	I	F''	3.366	3.367	3.367	3.367	3.367	3.367	3.368	3.368	3.368	3.368

ATOMIC SYMBOL = Xe		ATOMIC NUMBER = 54		L ₃ ABSORPTION EDGE (2.59260 Å; 4.7819 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.578	I	F ⁺	-15.426	-15.443	-15.460	-15.476	-15.493	-15.511	-15.528	-15.545	-15.563
	I	F ⁺	10.734	10.735	10.736	10.737	10.738	10.739	10.740	10.741	10.742
2.579	I	F ⁺	-15.598	-15.616	-15.634	-15.652	-15.670	-15.689	-15.707	-15.726	-15.745
	I	F ⁺	10.744	10.745	10.746	10.747	10.748	10.749	10.750	10.751	10.752
2.580	I	F ⁺	-15.783	-15.803	-15.822	-15.842	-15.862	-15.882	-15.902	-15.922	-15.943
	I	F ⁺	10.753	10.754	10.755	10.756	10.757	10.758	10.759	10.760	10.761
2.581	I	F ⁺	-15.984	-16.005	-16.026	-16.048	-16.070	-16.091	-16.113	-16.136	-16.158
	I	F ⁺	10.763	10.764	10.765	10.766	10.767	10.768	10.769	10.770	10.771
2.582	I	F ⁺	-16.204	-16.227	-16.250	-16.274	-16.297	-16.321	-16.346	-16.370	-16.395
	I	F ⁺	10.772	10.773	10.774	10.775	10.776	10.777	10.778	10.779	10.780
2.583	I	F ⁺	-16.445	-16.471	-16.497	-16.523	-16.549	-16.576	-16.603	-16.630	-16.658
	I	F ⁺	10.782	10.783	10.784	10.785	10.786	10.787	10.788	10.789	10.790
2.584	I	F ⁺	-16.714	-16.743	-16.772	-16.801	-16.831	-16.861	-16.891	-16.922	-16.954
	I	F ⁺	10.791	10.792	10.793	10.794	10.795	10.796	10.797	10.798	10.800
2.585	I	F ⁺	-17.017	-17.050	-17.083	-17.116	-17.150	-17.184	-17.219	-17.255	-17.291
	I	F ⁺	10.801	10.802	10.803	10.804	10.805	10.806	10.807	10.808	10.809
2.586	I	F ⁺	-17.364	-17.402	-17.440	-17.479	-17.518	-17.558	-17.599	-17.640	-17.683
	I	F ⁺	10.810	10.811	10.812	10.813	10.814	10.815	10.816	10.817	10.818
2.587	I	F ⁺	-17.769	-17.814	-17.859	-17.905	-17.952	-18.001	-18.050	-18.100	-18.151
	I	F ⁺	10.820	10.821	10.822	10.823	10.824	10.825	10.826	10.827	10.828
2.588	I	F ⁺	-18.257	-18.311	-18.367	-18.424	-18.483	-18.543	-18.605	-18.668	-18.733
	I	F ⁺	10.829	10.830	10.831	10.832	10.833	10.834	10.835	10.836	10.837
2.589	I	F ⁺	-18.868	-18.939	-19.011	-19.086	-19.164	-19.244	-19.327	-19.412	-19.501
	I	F ⁺	10.839	10.840	10.841	10.842	10.843	10.844	10.845	10.846	10.847
2.590	I	F ⁺	-19.689	-19.789	-19.893	-20.002	-20.116	-20.236	-20.362	-20.495	-20.636
	I	F ⁺	10.848	10.849	10.850	10.851	10.852	10.853	10.854	10.855	10.856
2.591	I	F ⁺	-20.945	-21.116	-21.300	-21.499	-21.716	-21.955	-22.220	-22.518	-22.858
	I	F ⁺	10.858	10.859	10.860	10.861	10.862	10.863	10.864	10.865	10.866
2.592	I	F ⁺	-23.730	-24.324	-25.115	-26.304	-28.777	-29.219	-26.428	-25.178	-24.363
	I	F ⁺	10.867	10.868	10.869	10.870	10.871	3.365	3.366	3.366	3.366
2.593	I	F ⁺	-23.275	-22.875	-22.532	-22.232	-21.966	-21.727	-21.510	-21.311	-21.127
	I	F ⁺	3.366	3.367	3.367	3.367	3.367	3.367	3.368	3.368	3.368
2.594	I	F ⁺	-20.798	-20.649	-20.509	-20.377	-20.251	-20.132	-20.019	-19.911	-19.807
	I	F ⁺	3.369	3.369	3.369	3.369	3.369	3.370	3.370	3.370	3.370
2.595	I	F ⁺	-19.613	-19.522	-19.434	-19.349	-19.267	-19.188	-19.111	-19.037	-18.965
	I	F ⁺	3.371	3.371	3.371	3.371	3.371	3.372	3.372	3.372	3.372
2.596	I	F ⁺	-18.827	-18.761	-18.697	-18.634	-18.574	-18.514	-18.456	-18.400	-18.345
	I	F ⁺	3.373	3.373	3.373	3.373	3.373	3.374	3.374	3.374	3.374
2.597	I	F ⁺	-18.238	-18.187	-18.136	-18.087	-18.038	-17.991	-17.944	-17.899	-17.854
	I	F ⁺	3.375	3.375	3.375	3.375	3.376	3.376	3.376	3.376	3.376
2.598	I	F ⁺	-17.767	-17.725	-17.683	-17.642	-17.602	-17.563	-17.524	-17.486	-17.448
	I	F ⁺	3.377	3.377	3.377	3.377	3.378	3.378	3.378	3.378	3.378
2.599	I	F ⁺	-17.375	-17.339	-17.304	-17.269	-17.234	-17.201	-17.167	-17.134	-17.102
	I	F ⁺	3.379	3.379	3.379	3.380	3.380	3.380	3.380	3.381	3.381
2.600	I	F ⁺	-17.039	-17.007	-16.977	-16.946	-16.916	-16.887	-16.858	-16.829	-16.800
	I	F ⁺	3.381	3.381	3.381	3.382	3.382	3.382	3.382	3.383	3.383
2.601	I	F ⁺	-16.744	-16.717	-16.690	-16.663	-16.636	-16.610	-16.584	-16.558	-16.533
	I	F ⁺	3.383	3.383	3.383	3.384	3.384	3.384	3.384	3.385	3.385
2.602	I	F ⁺	-16.483	-16.458	-16.434	-16.410	-16.386	-16.362	-16.339	-16.316	-16.293
	I	F ⁺	3.385	3.385	3.386	3.386	3.386	3.386	3.386	3.387	3.387
2.603	I	F ⁺	-16.248	-16.225	-16.203	-16.181	-16.160	-16.138	-16.117	-16.096	-16.075
	I	F ⁺	3.387	3.387	3.388	3.388	3.388	3.388	3.388	3.389	3.389
2.604	I	F ⁺	-16.034	-16.013	-15.993	-15.973	-15.953	-15.934	-15.914	-15.895	-15.876
	I	F ⁺	3.389	3.389	3.390	3.390	3.390	3.391	3.391	3.391	3.391
2.605	I	F ⁺	-15.838	-15.819	-15.800	-15.782	-15.764	-15.745	-15.727	-15.709	-15.692
	I	F ⁺	3.391	3.392	3.392	3.392	3.392	3.392	3.393	3.393	3.393

ATOMIC SYMBOL = CS			ATOMIC NUMBER = 55		L ₃ ABSORPTION EDGE (2.47400 Å; 5.0112 KEV)							
	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.460	I	F ⁺	-15.263	-15.280	-15.298	-15.315	-15.333	-15.351	-15.370	-15.388	-15.406	-15.425
	I	F ⁺	10.736	10.737	10.738	10.739	10.740	10.741	10.742	10.743	10.744	10.745
2.461	I	F ⁺	-15.444	-15.462	-15.481	-15.501	-15.520	-15.540	-15.559	-15.579	-15.599	-15.619
	I	F ⁺	10.746	10.747	10.748	10.749	10.750	10.751	10.752	10.753	10.754	10.755
2.462	I	F ⁺	-15.640	-15.660	-15.681	-15.702	-15.723	-15.744	-15.766	-15.787	-15.809	-15.831
	I	F ⁺	10.756	10.757	10.758	10.759	10.760	10.761	10.762	10.763	10.764	10.765
2.463	I	F ⁺	-15.854	-15.876	-15.899	-15.922	-15.945	-15.968	-15.992	-16.016	-16.040	-16.064
	I	F ⁺	10.766	10.767	10.768	10.769	10.770	10.771	10.772	10.773	10.774	10.775
2.464	I	F ⁺	-16.089	-16.114	-16.139	-16.164	-16.190	-16.216	-16.242	-16.268	-16.295	-16.322
	I	F ⁺	10.776	10.777	10.778	10.779	10.780	10.781	10.782	10.783	10.784	10.785
2.465	I	F ⁺	-16.350	-16.378	-16.406	-16.434	-16.463	-16.492	-16.521	-16.551	-16.582	-16.612
	I	F ⁺	10.786	10.787	10.788	10.789	10.790	10.791	10.792	10.793	10.794	10.795
2.466	I	F ⁺	-16.643	-16.675	-16.706	-16.739	-16.771	-16.805	-16.838	-16.872	-16.907	-16.942
	I	F ⁺	10.796	10.797	10.798	10.799	10.800	10.801	10.802	10.803	10.804	10.805
2.467	I	F ⁺	-16.978	-17.014	-17.051	-17.088	-17.126	-17.165	-17.204	-17.244	-17.284	-17.325
	I	F ⁺	10.806	10.807	10.808	10.809	10.810	10.811	10.812	10.813	10.814	10.815
2.468	I	F ⁺	-17.367	-17.410	-17.453	-17.498	-17.543	-17.589	-17.635	-17.683	-17.732	-17.782
	I	F ⁺	10.816	10.817	10.817	10.818	10.819	10.820	10.821	10.822	10.823	10.824
2.469	I	F ⁺	-17.833	-17.885	-17.938	-17.992	-18.048	-18.105	-18.163	-18.223	-18.284	-18.347
	I	F ⁺	10.825	10.826	10.827	10.828	10.829	10.830	10.831	10.832	10.833	10.834
2.470	I	F ⁺	-18.411	-18.478	-18.546	-18.616	-18.689	-18.763	-18.840	-18.920	-19.002	-19.084
	I	F ⁺	10.835	10.836	10.837	10.838	10.839	10.840	10.841	10.842	10.843	10.844
2.471	I	F ⁺	-19.176	-19.268	-19.364	-19.463	-19.567	-19.676	-19.790	-19.909	-20.035	-20.168
	I	F ⁺	10.845	10.846	10.847	10.848	10.849	10.850	10.851	10.852	10.853	10.854
2.472	I	F ⁺	-20.309	-20.458	-20.618	-20.789	-20.973	-21.173	-21.391	-21.631	-21.897	-22.198
	I	F ⁺	10.855	10.856	10.857	10.858	10.859	10.860	10.861	10.862	10.863	10.864
2.473	I	F ⁺	-22.542	-22.945	-23.430	-24.040	-24.864	-26.137	-29.080	-28.126	-25.799	-24.652
	I	F ⁺	10.865	10.866	10.867	10.868	10.869	10.870	10.871	3.436	3.437	3.437
2.474	I	F ⁺	-23.883	-23.305	-22.841	-22.454	-22.121	-21.830	-21.571	-21.337	-21.125	-20.930
	I	F ⁺	3.437	3.437	3.437	3.438	3.438	3.438	3.438	3.439	3.439	3.439
2.475	I	F ⁺	-20.751	-20.584	-20.428	-20.282	-20.144	-20.014	-19.891	-19.774	-19.662	-19.556
	I	F ⁺	3.439	3.439	3.440	3.440	3.440	3.440	3.441	3.441	3.441	3.441
2.476	I	F ⁺	-19.454	-19.357	-19.263	-19.173	-19.086	-19.003	-18.922	-18.844	-18.768	-18.695
	I	F ⁺	3.441	3.442	3.442	3.442	3.443	3.443	3.443	3.443	3.443	3.443
2.477	I	F ⁺	-18.624	-18.555	-18.488	-18.423	-18.360	-18.299	-18.238	-18.180	-18.123	-18.067
	I	F ⁺	3.444	3.444	3.444	3.444	3.445	3.445	3.445	3.445	3.445	3.446
2.478	I	F ⁺	-18.013	-17.960	-17.908	-17.857	-17.807	-17.758	-17.710	-17.664	-17.618	-17.573
	I	F ⁺	3.446	3.446	3.446	3.447	3.447	3.447	3.447	3.447	3.448	3.448
2.479	I	F ⁺	-17.528	-17.485	-17.443	-17.401	-17.360	-17.319	-17.280	-17.241	-17.202	-17.165
	I	F ⁺	3.448	3.448	3.449	3.449	3.449	3.449	3.449	3.450	3.450	3.450
2.480	I	F ⁺	-17.128	-17.091	-17.055	-17.020	-16.985	-16.950	-16.917	-16.883	-16.850	-16.818
	I	F ⁺	3.450	3.451	3.451	3.451	3.451	3.452	3.452	3.452	3.452	3.452
2.481	I	F ⁺	-16.786	-16.754	-16.723	-16.692	-16.662	-16.632	-16.602	-16.573	-16.544	-16.516
	I	F ⁺	3.453	3.453	3.453	3.453	3.454	3.454	3.454	3.454	3.454	3.455
2.482	I	F ⁺	-16.488	-16.460	-16.432	-16.405	-16.378	-16.352	-16.325	-16.299	-16.274	-16.248
	I	F ⁺	3.455	3.455	3.455	3.455	3.456	3.456	3.456	3.456	3.457	3.457
2.483	I	F ⁺	-16.223	-16.198	-16.174	-16.150	-16.125	-16.102	-16.078	-16.055	-16.032	-16.009
	I	F ⁺	3.457	3.457	3.457	3.458	3.458	3.458	3.458	3.459	3.459	3.459
2.484	I	F ⁺	-15.986	-15.964	-15.941	-15.919	-15.897	-15.876	-15.854	-15.833	-15.812	-15.791
	I	F ⁺	3.459	3.459	3.460	3.460	3.460	3.460	3.461	3.461	3.461	3.461
2.485	I	F ⁺	-15.771	-15.750	-15.730	-15.710	-15.690	-15.670	-15.650	-15.631	-15.612	-15.593
	I	F ⁺	3.461	3.462	3.462	3.462	3.462	3.463	3.463	3.463	3.463	3.463
2.486	I	F ⁺	-15.574	-15.555	-15.536	-15.518	-15.499	-15.481	-15.463	-15.445	-15.427	-15.410
	I	F ⁺	3.464	3.464	3.464	3.464	3.465	3.465	3.465	3.465	3.465	3.466
2.487	I	F ⁺	-15.392	-15.375	-15.357	-15.340	-15.323	-15.306	-15.289	-15.273	-15.256	-15.240
	I	F ⁺	3.466	3.466	3.466	3.467	3.467	3.467	3.467	3.467	3.468	3.468

ATOMIC SYMBOL = BA			ATOMIC NUMBER = 56		L ₃ ABSORPTION EDGE (2.36290 Å; 5.2468 KEV)							
I			0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.349	I	F'	-14.944	-14.961	-14.978	-14.996	-15.013	-15.031	-15.048	-15.066	-15.084	-15.102
	I	F''	10.670	10.671	10.672	10.673	10.674	10.675	10.676	10.677	10.678	10.679
2.350	I	F'	-15.121	-15.139	-15.158	-15.176	-15.195	-15.214	-15.234	-15.253	-15.272	-15.292
	I	F''	10.680	10.681	10.682	10.683	10.684	10.685	10.686	10.687	10.688	10.689
2.351	I	F'	-15.312	-15.332	-15.352	-15.373	-15.393	-15.414	-15.435	-15.456	-15.477	-15.499
	I	F''	10.690	10.691	10.692	10.693	10.694	10.695	10.696	10.697	10.698	10.699
2.352	I	F'	-15.520	-15.542	-15.564	-15.587	-15.609	-15.632	-15.655	-15.678	-15.702	-15.725
	I	F''	10.700	10.701	10.702	10.703	10.704	10.705	10.707	10.708	10.709	10.710
2.353	I	F'	-15.749	-15.773	-15.798	-15.822	-15.847	-15.873	-15.898	-15.924	-15.950	-15.976
	I	F''	10.711	10.712	10.713	10.714	10.715	10.716	10.717	10.718	10.719	10.720
2.354	I	F'	-16.003	-16.030	-16.057	-16.084	-16.112	-16.141	-16.169	-16.198	-16.227	-16.257
	I	F''	10.721	10.722	10.723	10.724	10.725	10.726	10.727	10.728	10.729	10.730
2.355	I	F'	-16.287	-16.317	-16.348	-16.379	-16.411	-16.443	-16.476	-16.509	-16.542	-16.576
	I	F''	10.731	10.732	10.733	10.734	10.735	10.736	10.737	10.738	10.739	10.740
2.356	I	F'	-16.610	-16.645	-16.681	-16.717	-16.753	-16.790	-16.828	-16.866	-16.905	-16.945
	I	F''	10.741	10.742	10.743	10.744	10.745	10.746	10.747	10.748	10.749	10.750
2.357	I	F'	-16.985	-17.026	-17.068	-17.110	-17.154	-17.198	-17.243	-17.288	-17.335	-17.383
	I	F''	10.752	10.753	10.754	10.755	10.756	10.757	10.758	10.759	10.760	10.761
2.358	I	F'	-17.431	-17.481	-17.531	-17.583	-17.636	-17.690	-17.744	-17.802	-17.860	-17.920
	I	F''	10.762	10.763	10.764	10.765	10.766	10.767	10.768	10.769	10.770	10.771
2.359	I	F'	-17.981	-18.044	-18.108	-18.175	-18.243	-18.313	-18.385	-18.460	-18.537	-18.617
	I	F''	10.772	10.773	10.774	10.775	10.776	10.777	10.778	10.779	10.780	10.781
2.360	I	F'	-18.699	-18.785	-18.873	-18.965	-19.061	-19.161	-19.266	-19.375	-19.489	-19.610
	I	F''	10.782	10.783	10.784	10.785	10.786	10.788	10.789	10.790	10.791	10.792
2.361	I	F'	-19.736	-19.870	-20.012	-20.163	-20.325	-20.498	-20.686	-20.889	-21.111	-21.357
	I	F''	10.793	10.794	10.795	10.796	10.797	10.798	10.799	10.800	10.801	10.802
2.362	I	F'	-21.632	-21.943	-22.302	-22.725	-23.242	-23.906	-24.835	-26.398	-33.402	-26.602
	I	F''	10.803	10.804	10.805	10.806	10.807	10.808	10.809	10.810	10.811	3.463
2.363	I	F'	-24.923	-23.957	-23.277	-22.751	-22.323	-21.961	-21.648	-21.372	-21.126	-20.903
	I	F''	3.464	3.464	3.464	3.464	3.465	3.465	3.465	3.465	3.465	3.466
2.364	I	F'	-20.700	-20.513	-20.340	-20.179	-20.028	-19.887	-19.754	-19.628	-19.508	-19.395
	I	F''	3.466	3.466	3.466	3.467	3.467	3.467	3.467	3.468	3.468	3.468
2.365	I	F'	-19.287	-19.183	-19.084	-18.989	-18.898	-18.810	-18.725	-18.644	-18.565	-18.489
	I	F''	3.468	3.469	3.469	3.469	3.469	3.469	3.470	3.470	3.470	3.470
2.366	I	F'	-18.415	-18.344	-18.274	-18.207	-18.142	-18.078	-18.016	-17.956	-17.897	-17.840
	I	F''	3.471	3.471	3.471	3.471	3.472	3.472	3.472	3.472	3.473	3.473
2.367	I	F'	-17.784	-17.729	-17.676	-17.624	-17.573	-17.523	-17.474	-17.426	-17.379	-17.333
	I	F''	3.473	3.473	3.473	3.474	3.474	3.474	3.474	3.475	3.475	3.475
2.368	I	F'	-17.288	-17.244	-17.201	-17.158	-17.117	-17.076	-17.035	-16.996	-16.957	-16.919
	I	F''	3.475	3.476	3.476	3.476	3.476	3.477	3.477	3.477	3.477	3.477
2.369	I	F'	-16.881	-16.844	-16.807	-16.772	-16.736	-16.701	-16.667	-16.633	-16.600	-16.567
	I	F''	3.478	3.478	3.478	3.478	3.479	3.479	3.479	3.479	3.480	3.480
2.370	I	F'	-16.535	-16.503	-16.471	-16.440	-16.410	-16.380	-16.350	-16.320	-16.291	-16.262
	I	F''	3.480	3.480	3.480	3.481	3.481	3.481	3.481	3.482	3.482	3.482
2.371	I	F'	-16.234	-16.206	-16.178	-16.151	-16.124	-16.097	-16.071	-16.045	-16.019	-15.993
	I	F''	3.482	3.483	3.483	3.483	3.483	3.484	3.484	3.484	3.484	3.484
2.372	I	F'	-15.968	-15.943	-15.918	-15.894	-15.870	-15.846	-15.822	-15.799	-15.775	-15.752
	I	F''	3.485	3.485	3.485	3.485	3.486	3.486	3.486	3.486	3.487	3.487
2.373	I	F'	-15.730	-15.707	-15.685	-15.663	-15.641	-15.619	-15.598	-15.577	-15.555	-15.535
	I	F''	3.487	3.487	3.488	3.488	3.488	3.488	3.488	3.489	3.489	3.489
2.374	I	F'	-15.514	-15.493	-15.473	-15.453	-15.433	-15.413	-15.393	-15.374	-15.355	-15.336
	I	F''	3.489	3.490	3.490	3.490	3.490	3.491	3.491	3.491	3.491	3.492
2.375	I	F'	-15.317	-15.298	-15.279	-15.261	-15.242	-15.224	-15.206	-15.188	-15.170	-15.152
	I	F''	3.492	3.492	3.492	3.492	3.493	3.493	3.493	3.493	3.494	3.494
2.376	I	F'	-15.135	-15.117	-15.100	-15.083	-15.066	-15.049	-15.032	-15.016	-14.999	-14.983
	I	F''	3.494	3.494	3.495	3.495	3.495	3.495	3.496	3.496	3.496	3.496

ATOMIC SYMBOL = LA			ATOMIC NUMBER = 57		L ₃ ABSORPTION EDGE (2.26100 Å; 5.4833 KEV)							
I			0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.247	I	F'	-14.608	-14.624	-14.640	-14.656	-14.672	-14.688	-14.705	-14.721	-14.738	-14.755
	I	F''	10.448	10.449	10.450	10.450	10.451	10.452	10.453	10.454	10.455	10.455
2.248	I	F'	-14.772	-14.789	-14.806	-14.823	-14.841	-14.859	-14.876	-14.894	-14.912	-14.930
	I	F''	10.456	10.457	10.458	10.459	10.460	10.460	10.461	10.462	10.463	10.464
2.249	I	F'	-14.949	-14.967	-14.986	-15.005	-15.024	-15.043	-15.062	-15.082	-15.101	-15.121
	I	F''	10.465	10.465	10.466	10.467	10.468	10.469	10.470	10.470	10.471	10.472
2.250	I	F'	-15.141	-15.161	-15.182	-15.202	-15.223	-15.244	-15.265	-15.286	-15.308	-15.330
	I	F''	10.473	10.474	10.475	10.476	10.476	10.477	10.478	10.479	10.480	10.481
2.251	I	F'	-15.352	-15.374	-15.396	-15.419	-15.442	-15.465	-15.488	-15.512	-15.536	-15.560
	I	F''	10.481	10.482	10.483	10.484	10.485	10.486	10.486	10.487	10.488	10.489
2.252	I	F'	-15.584	-15.609	-15.634	-15.659	-15.684	-15.710	-15.736	-15.762	-15.789	-15.816
	I	F''	10.490	10.491	10.491	10.492	10.493	10.494	10.495	10.496	10.496	10.497
2.253	I	F'	-15.843	-15.871	-15.899	-15.927	-15.956	-15.985	-16.015	-16.044	-16.075	-16.105
	I	F''	10.498	10.499	10.500	10.501	10.502	10.502	10.503	10.504	10.505	10.506
2.254	I	F'	-16.136	-16.168	-16.200	-16.232	-16.265	-16.299	-16.332	-16.367	-16.402	-16.437
	I	F''	10.507	10.507	10.508	10.509	10.510	10.511	10.512	10.512	10.513	10.514
2.255	I	F'	-16.473	-16.510	-16.547	-16.585	-16.624	-16.663	-16.703	-16.743	-16.785	-16.827
	I	F''	10.515	10.516	10.517	10.517	10.518	10.519	10.520	10.521	10.522	10.523
2.256	I	F'	-16.869	-16.913	-16.958	-17.003	-17.050	-17.097	-17.145	-17.195	-17.245	-17.297
	I	F''	10.523	10.524	10.525	10.526	10.527	10.528	10.528	10.529	10.530	10.531
2.257	I	F'	-17.350	-17.404	-17.460	-17.517	-17.575	-17.635	-17.696	-17.760	-17.825	-17.892
	I	F''	10.532	10.533	10.533	10.534	10.535	10.536	10.537	10.538	10.538	10.539
2.258	I	F'	-17.961	-18.032	-18.106	-18.181	-18.260	-18.342	-18.426	-18.514	-18.605	-18.700
	I	F''	10.540	10.541	10.542	10.543	10.544	10.544	10.545	10.546	10.547	10.548
2.259	I	F'	-18.799	-18.903	-19.012	-19.126	-19.247	-19.374	-19.509	-19.652	-19.805	-19.969
	I	F''	10.549	10.549	10.550	10.551	10.552	10.553	10.554	10.554	10.555	10.556
2.260	I	F'	-20.146	-20.337	-20.547	-20.778	-21.035	-21.326	-21.659	-22.050	-22.523	-23.122
	I	F''	10.557	10.558	10.559	10.560	10.560	10.561	10.562	10.563	10.564	10.565
2.261	I	F'	-23.940	-25.235	-28.610	-26.537	-24.565	-23.532	-22.827	-22.291	-21.859	-21.497
	I	F''	10.565	10.566	10.567	3.488	3.488	3.488	3.488	3.489	3.489	3.489
2.262	I	F'	-21.185	-20.912	-20.668	-20.448	-20.248	-20.064	-19.894	-19.736	-19.589	-19.450
	I	F''	3.489	3.490	3.490	3.490	3.490	3.491	3.491	3.491	3.491	3.492
2.263	I	F'	-19.320	-19.197	-19.080	-18.969	-18.863	-18.762	-18.666	-18.573	-18.484	-18.399
	I	F''	3.492	3.492	3.492	3.493	3.493	3.493	3.493	3.494	3.494	3.494
2.264	I	F'	-18.317	-18.237	-18.160	-18.086	-18.014	-17.945	-17.877	-17.812	-17.748	-17.687
	I	F''	3.493	3.495	3.495	3.495	3.495	3.496	3.496	3.496	3.496	3.497
2.265	I	F'	-17.626	-17.568	-17.511	-17.455	-17.401	-17.348	-17.296	-17.245	-17.196	-17.147
	I	F''	3.497	3.497	3.497	3.498	3.498	3.498	3.498	3.498	3.499	3.499
2.266	I	F'	-17.100	-17.053	-17.008	-16.963	-16.919	-16.877	-16.835	-16.793	-16.753	-16.713
	I	F''	3.499	3.499	3.500	3.500	3.500	3.500	3.500	3.501	3.501	3.501
2.267	I	F'	-16.674	-16.635	-16.598	-16.560	-16.524	-16.488	-16.452	-16.418	-16.383	-16.350
	I	F''	3.502	3.502	3.502	3.502	3.503	3.503	3.503	3.503	3.504	3.504
2.268	I	F'	-16.316	-16.283	-16.251	-16.219	-16.188	-16.157	-16.126	-16.096	-16.066	-16.037
	I	F''	3.504	3.504	3.505	3.505	3.505	3.505	3.506	3.506	3.506	3.506
2.269	I	F'	-16.008	-15.980	-15.951	-15.923	-15.896	-15.869	-15.842	-15.815	-15.789	-15.763
	I	F''	3.507	3.507	3.507	3.507	3.508	3.508	3.508	3.508	3.509	3.509
2.270	I	F'	-15.737	-15.712	-15.687	-15.662	-15.638	-15.613	-15.589	-15.566	-15.542	-15.519
	I	F''	3.509	3.509	3.510	3.510	3.510	3.511	3.511	3.511	3.511	3.511
2.271	I	F'	-15.496	-15.473	-15.451	-15.428	-15.406	-15.384	-15.363	-15.341	-15.320	-15.299
	I	F''	3.512	3.512	3.512	3.512	3.513	3.513	3.513	3.513	3.514	3.514
2.272	I	F'	-15.278	-15.257	-15.237	-15.217	-15.197	-15.177	-15.157	-15.137	-15.118	-15.099
	I	F''	3.514	3.514	3.515	3.515	3.515	3.515	3.516	3.516	3.516	3.516
2.273	I	F'	-15.080	-15.061	-15.042	-15.023	-15.005	-14.987	-14.968	-14.950	-14.933	-14.915
	I	F''	3.517	3.517	3.517	3.517	3.518	3.518	3.518	3.518	3.519	3.519
2.274	I	F'	-14.897	-14.880	-14.863	-14.845	-14.828	-14.811	-14.795	-14.778	-14.761	-14.745
	I	F''	3.519	3.519	3.520	3.520	3.520	3.521	3.521	3.521	3.521	3.521

ATOMIC SYMBOL = CE		ATOMIC NUMBER = 58		L ₃ ABSORPTION EDGE (2.16600 Å; 5.7237 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.152	I	-14.408	-14.424	-14.441	-14.457	-14.474	-14.491	-14.508	-14.525	-14.542	-14.560
	I	-10.582	-10.583	-10.584	-10.585	-10.586	-10.587	-10.588	-10.589	-10.590	-10.591
2.153	I	-14.577	-14.595	-14.613	-14.631	-14.649	-14.667	-14.685	-14.704	-14.723	-14.742
	I	-10.593	-10.594	-10.595	-10.596	-10.597	-10.598	-10.599	-10.600	-10.601	-10.602
2.154	I	-14.761	-14.780	-14.799	-14.819	-14.838	-14.858	-14.878	-14.898	-14.919	-14.939
	I	-10.603	-10.604	-10.605	-10.607	-10.608	-10.609	-10.610	-10.611	-10.612	-10.613
2.155	I	-14.960	-14.981	-15.002	-15.023	-15.045	-15.066	-15.088	-15.110	-15.133	-15.155
	I	-10.614	-10.615	-10.616	-10.617	-10.618	-10.620	-10.621	-10.622	-10.623	-10.624
2.156	I	-15.178	-15.201	-15.224	-15.248	-15.271	-15.295	-15.320	-15.344	-15.369	-15.394
	I	-10.625	-10.626	-10.627	-10.628	-10.629	-10.630	-10.631	-10.633	-10.634	-10.635
2.157	I	-15.419	-15.445	-15.470	-15.497	-15.523	-15.550	-15.577	-15.604	-15.632	-15.660
	I	-10.636	-10.637	-10.638	-10.639	-10.640	-10.641	-10.642	-10.643	-10.645	-10.646
2.158	I	-15.688	-15.717	-15.746	-15.776	-15.805	-15.836	-15.866	-15.897	-15.929	-15.961
	I	-10.647	-10.648	-10.649	-10.650	-10.651	-10.652	-10.653	-10.654	-10.655	-10.656
2.159	I	-15.993	-16.026	-16.059	-16.093	-16.127	-16.162	-16.197	-16.233	-16.269	-16.306
	I	-10.658	-10.659	-10.660	-10.661	-10.662	-10.663	-10.664	-10.665	-10.666	-10.667
2.160	I	-16.344	-16.382	-16.421	-16.460	-16.500	-16.541	-16.583	-16.625	-16.668	-16.712
	I	-10.668	-10.670	-10.671	-10.672	-10.673	-10.674	-10.675	-10.676	-10.677	-10.678
2.161	I	-16.757	-16.802	-16.849	-16.897	-16.945	-16.995	-17.045	-17.097	-17.150	-17.204
	I	-10.679	-10.680	-10.682	-10.683	-10.684	-10.685	-10.686	-10.687	-10.688	-10.689
2.162	I	-17.260	-17.316	-17.375	-17.434	-17.494	-17.559	-17.623	-17.690	-17.758	-17.829
	I	-10.690	-10.691	-10.692	-10.694	-10.695	-10.696	-10.697	-10.698	-10.699	-10.700
2.163	I	-17.902	-17.977	-18.055	-18.135	-18.218	-18.305	-18.394	-18.488	-18.585	-18.686
	I	-10.701	-10.702	-10.703	-10.705	-10.706	-10.707	-10.708	-10.709	-10.710	-10.711
2.164	I	-18.792	-18.904	-19.020	-19.143	-19.273	-19.411	-19.557	-19.713	-19.880	-20.060
	I	-10.712	-10.713	-10.714	-10.715	-10.717	-10.718	-10.719	-10.720	-10.721	-10.722
2.165	I	-20.256	-20.469	-20.705	-20.967	-21.262	-21.601	-21.998	-22.478	-23.085	-23.911
	I	-10.723	-10.724	-10.725	-10.726	-10.728	-10.729	-10.730	-10.731	-10.732	-10.733
2.166	I	-25.210	-28.477	-26.685	-24.616	-23.547	-22.821	-22.271	-21.828	-21.457	-21.138
	I	-10.734	-10.735	-10.736	-10.737	-10.738	-10.739	-10.740	-10.741	-10.742	-10.743
2.167	I	-20.858	-20.609	-20.384	-20.179	-19.991	-19.818	-19.657	-19.506	-19.365	-19.232
	I	-10.735	-10.736	-10.737	-10.738	-10.739	-10.740	-10.741	-10.742	-10.743	-10.744
2.168	I	-19.107	-18.987	-18.874	-18.767	-18.664	-18.565	-18.471	-18.380	-18.293	-18.209
	I	-10.736	-10.737	-10.738	-10.739	-10.740	-10.741	-10.742	-10.743	-10.744	-10.745
2.169	I	-18.128	-18.050	-17.975	-17.902	-17.831	-17.762	-17.695	-17.631	-17.568	-17.506
	I	-10.737	-10.738	-10.739	-10.740	-10.741	-10.742	-10.743	-10.744	-10.745	-10.746
2.170	I	-17.447	-17.389	-17.332	-17.277	-17.223	-17.170	-17.118	-17.068	-17.019	-16.971
	I	-10.738	-10.739	-10.740	-10.741	-10.742	-10.743	-10.744	-10.745	-10.746	-10.747
2.171	I	-16.923	-16.877	-16.832	-16.787	-16.744	-16.701	-16.659	-16.618	-16.577	-16.538
	I	-10.739	-10.740	-10.741	-10.742	-10.743	-10.744	-10.745	-10.746	-10.747	-10.748
2.172	I	-16.498	-16.460	-16.422	-16.385	-16.349	-16.313	-16.277	-16.242	-16.208	-16.174
	I	-10.740	-10.741	-10.742	-10.743	-10.744	-10.745	-10.746	-10.747	-10.748	-10.749
2.173	I	-16.141	-16.108	-16.076	-16.044	-16.012	-15.981	-15.951	-15.921	-15.891	-15.861
	I	-10.741	-10.742	-10.743	-10.744	-10.745	-10.746	-10.747	-10.748	-10.749	-10.750
2.174	I	-15.832	-15.804	-15.776	-15.748	-15.720	-15.693	-15.666	-15.639	-15.613	-15.587
	I	-10.742	-10.743	-10.744	-10.745	-10.746	-10.747	-10.748	-10.749	-10.750	-10.751
2.175	I	-15.561	-15.536	-15.511	-15.486	-15.461	-15.437	-15.413	-15.389	-15.365	-15.342
	I	-10.743	-10.744	-10.745	-10.746	-10.747	-10.748	-10.749	-10.750	-10.751	-10.752
2.176	I	-15.319	-15.296	-15.273	-15.251	-15.229	-15.207	-15.185	-15.164	-15.142	-15.121
	I	-10.744	-10.745	-10.746	-10.747	-10.748	-10.749	-10.750	-10.751	-10.752	-10.753
2.177	I	-15.100	-15.080	-15.059	-15.039	-15.018	-14.998	-14.979	-14.959	-14.939	-14.920
	I	-10.745	-10.746	-10.747	-10.748	-10.749	-10.750	-10.751	-10.752	-10.753	-10.754
2.178	I	-14.901	-14.882	-14.863	-14.845	-14.826	-14.808	-14.789	-14.771	-14.753	-14.736
	I	-10.746	-10.747	-10.748	-10.749	-10.750	-10.751	-10.752	-10.753	-10.754	-10.755
2.179	I	-14.718	-14.700	-14.683	-14.666	-14.649	-14.632	-14.615	-14.598	-14.582	-14.565
	I	-10.747	-10.748	-10.749	-10.750	-10.751	-10.752	-10.753	-10.754	-10.755	-10.756

ATOMIC SYMBOL = PR		ATOMIC NUMBER = 59		L ₃ ABSORPTION EDGE (2.07910 Å; 5.9630 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
2.065	I	-14.268	-14.285	-14.302	-14.319	-14.337	-14.354	-14.372	-14.389	-14.407	-14.425
	F'	-10.558	-10.559	-10.560	-10.561	-10.562	-10.563	-10.564	-10.565	-10.567	-10.568
2.066	I	-14.443	-14.462	-14.480	-14.499	-14.517	-14.536	-14.555	-14.575	-14.594	-14.614
	F'	-10.569	-10.570	-10.571	-10.572	-10.573	-10.575	-10.576	-10.577	-10.578	-10.579
2.067	I	-14.633	-14.653	-14.673	-14.693	-14.714	-14.734	-14.755	-14.776	-14.797	-14.819
	F'	-10.580	-10.581	-10.582	-10.584	-10.585	-10.586	-10.587	-10.588	-10.589	-10.590
2.068	I	-14.840	-14.862	-14.884	-14.906	-14.929	-14.951	-14.974	-14.997	-15.021	-15.044
	F'	-10.592	-10.593	-10.594	-10.595	-10.596	-10.597	-10.598	-10.599	-10.601	-10.602
2.069	I	-15.068	-15.092	-15.116	-15.141	-15.166	-15.191	-15.216	-15.242	-15.268	-15.294
	F'	-10.603	-10.604	-10.605	-10.606	-10.607	-10.609	-10.610	-10.611	-10.612	-10.613
2.070	I	-15.321	-15.348	-15.375	-15.402	-15.430	-15.458	-15.487	-15.516	-15.545	-15.575
	F'	-10.614	-10.615	-10.616	-10.618	-10.619	-10.620	-10.621	-10.622	-10.623	-10.624
2.071	I	-15.605	-15.635	-15.666	-15.697	-15.729	-15.761	-15.794	-15.827	-15.860	-15.894
	F'	-10.626	-10.627	-10.628	-10.629	-10.630	-10.631	-10.632	-10.634	-10.635	-10.636
2.072	I	-15.929	-15.964	-15.999	-16.035	-16.072	-16.109	-16.147	-16.186	-16.225	-16.265
	F'	-10.637	-10.638	-10.639	-10.640	-10.642	-10.643	-10.644	-10.645	-10.646	-10.647
2.073	I	-16.305	-16.347	-16.389	-16.432	-16.475	-16.520	-16.565	-16.611	-16.658	-16.707
	F'	-10.648	-10.650	-10.651	-10.652	-10.653	-10.654	-10.655	-10.656	-10.658	-10.659
2.074	I	-16.756	-16.806	-16.857	-16.907	-16.964	-17.019	-17.075	-17.133	-17.192	-17.253
	F'	-10.660	-10.661	-10.662	-10.663	-10.664	-10.666	-10.667	-10.668	-10.669	-10.670
2.075	I	-17.315	-17.380	-17.446	-17.514	-17.584	-17.656	-17.730	-17.807	-17.887	-17.970
	F'	-10.671	-10.672	-10.673	-10.674	-10.675	-10.677	-10.678	-10.679	-10.680	-10.682
2.076	I	-18.055	-18.144	-18.236	-18.333	-18.433	-18.538	-18.648	-18.764	-18.885	-19.014
	F'	-10.683	-10.684	-10.685	-10.686	-10.687	-10.688	-10.690	-10.691	-10.692	-10.693
2.077	I	-19.150	-19.294	-19.448	-19.613	-19.791	-19.984	-20.195	-20.426	-20.684	-20.974
	F'	-10.694	-10.695	-10.696	-10.698	-10.699	-10.700	-10.701	-10.702	-10.703	-10.705
2.078	I	-21.307	-21.695	-22.163	-22.752	-23.546	-24.772	-27.592	-26.725	-24.665	-23.354
	F'	-10.706	-10.707	-10.708	-10.709	-10.710	-10.711	-10.713	-10.714	-10.715	-10.716
2.079	I	-22.611	-22.052	-21.604	-21.229	-20.908	-20.627	-20.377	-20.151	-19.946	-19.758
	F'	-10.717	-10.718	-10.719	-10.720	-10.721	-10.722	-10.723	-10.724	-10.725	-10.726
2.080	I	-19.585	-19.424	-19.273	-19.132	-18.999	-18.874	-18.755	-18.642	-18.535	-18.432
	F'	-10.727	-10.728	-10.729	-10.730	-10.731	-10.732	-10.733	-10.734	-10.735	-10.736
2.081	I	-18.334	-18.240	-18.149	-18.062	-17.979	-17.898	-17.820	-17.745	-17.672	-17.602
	F'	-10.737	-10.738	-10.739	-10.740	-10.741	-10.742	-10.743	-10.744	-10.745	-10.746
2.082	I	-17.533	-17.467	-17.402	-17.340	-17.279	-17.219	-17.161	-17.105	-17.050	-16.996
	F'	-10.747	-10.748	-10.749	-10.750	-10.751	-10.752	-10.753	-10.754	-10.755	-10.756
2.083	I	-16.944	-16.893	-16.842	-16.793	-16.745	-16.698	-16.652	-16.607	-16.563	-16.520
	F'	-10.757	-10.758	-10.759	-10.760	-10.761	-10.762	-10.763	-10.764	-10.765	-10.766
2.084	I	-16.477	-16.436	-16.395	-16.354	-16.315	-16.276	-16.238	-16.200	-16.163	-16.127
	F'	-10.767	-10.768	-10.769	-10.770	-10.771	-10.772	-10.773	-10.774	-10.775	-10.776
2.085	I	-16.019	-16.056	-16.021	-15.987	-15.954	-15.920	-15.888	-15.856	-15.824	-15.793
	F'	-10.777	-10.778	-10.779	-10.780	-10.781	-10.782	-10.783	-10.784	-10.785	-10.786
2.086	I	-15.762	-15.731	-15.701	-15.672	-15.643	-15.614	-15.585	-15.557	-15.529	-15.502
	F'	-10.787	-10.788	-10.789	-10.790	-10.791	-10.792	-10.793	-10.794	-10.795	-10.796
2.087	I	-15.475	-15.448	-15.422	-15.396	-15.370	-15.344	-15.319	-15.294	-15.269	-15.245
	F'	-10.797	-10.798	-10.799	-10.800	-10.801	-10.802	-10.803	-10.804	-10.805	-10.806
2.088	I	-15.221	-15.197	-15.173	-15.150	-15.126	-15.104	-15.081	-15.058	-15.036	-15.014
	F'	-10.807	-10.808	-10.809	-10.810	-10.811	-10.812	-10.813	-10.814	-10.815	-10.816
2.089	I	-14.992	-14.971	-14.949	-14.928	-14.907	-14.886	-14.866	-14.845	-14.825	-14.805
	F'	-10.817	-10.818	-10.819	-10.820	-10.821	-10.822	-10.823	-10.824	-10.825	-10.826
2.090	I	-14.785	-14.766	-14.746	-14.727	-14.708	-14.688	-14.670	-14.651	-14.632	-14.614
	F'	-10.827	-10.828	-10.829	-10.830	-10.831	-10.832	-10.833	-10.834	-10.835	-10.836
2.091	I	-14.596	-14.578	-14.560	-14.542	-14.524	-14.507	-14.489	-14.472	-14.455	-14.438
	F'	-10.837	-10.838	-10.839	-10.840	-10.841	-10.842	-10.843	-10.844	-10.845	-10.846
2.092	I	-14.421	-14.404	-14.388	-14.371	-14.355	-14.339	-14.323	-14.307	-14.291	-14.275
	F'	-10.847	-10.848	-10.849	-10.850	-10.851	-10.852	-10.853	-10.854	-10.855	-10.856

ATOMIC SYMBOL = ND		ATOMIC NUMBER = 60		L ₃ ABSORPTION EDGE (1.99670 Å; 6.2091 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.983	I F'	-13.998	-14.014	-14.031	-14.047	-14.064	-14.080	-14.097	-14.114	-14.131	-14.149
	I F"	10.500	10.501	10.502	10.503	10.504	10.505	10.506	10.508	10.509	10.510
1.984	I F'	-14.166	-14.183	-14.201	-14.219	-14.237	-14.255	-14.273	-14.291	-14.310	-14.328
	I F"	10.511	10.512	10.513	10.514	10.515	10.517	10.518	10.519	10.520	10.521
1.985	I F'	-14.347	-14.366	-14.385	-14.405	-14.424	-14.444	-14.463	-14.483	-14.504	-14.524
	I F"	10.522	10.523	10.525	10.526	10.527	10.528	10.529	10.530	10.531	10.533
1.986	I F'	-14.544	-14.565	-14.586	-14.607	-14.628	-14.650	-14.671	-14.693	-14.716	-14.738
	I F"	10.534	10.535	10.536	10.537	10.538	10.539	10.540	10.542	10.543	10.544
1.987	I F'	-14.760	-14.783	-14.806	-14.829	-14.853	-14.877	-14.901	-14.925	-14.949	-14.974
	I F"	10.545	10.546	10.547	10.548	10.550	10.551	10.552	10.553	10.554	10.555
1.988	I F'	-14.999	-15.024	-15.050	-15.076	-15.102	-15.129	-15.155	-15.183	-15.210	-15.238
	I F"	10.556	10.558	10.559	10.560	10.562	10.563	10.564	10.566	10.566	10.567
1.989	I F'	-15.266	-15.294	-15.323	-15.352	-15.382	-15.412	-15.442	-15.473	-15.504	-15.536
	I F"	10.568	10.569	10.570	10.571	10.572	10.574	10.575	10.576	10.577	10.578
1.990	I F'	-15.568	-15.601	-15.634	-15.667	-15.701	-15.736	-15.771	-15.806	-15.842	-15.879
	I F"	10.579	10.580	10.582	10.583	10.584	10.585	10.586	10.587	10.588	10.590
1.991	I F'	-15.916	-15.954	-15.993	-16.032	-16.072	-16.113	-16.154	-16.196	-16.239	-16.283
	I F"	10.591	10.592	10.593	10.594	10.595	10.597	10.598	10.599	10.600	10.601
1.992	I F'	-16.327	-16.373	-16.419	-16.467	-16.515	-16.564	-16.613	-16.666	-16.719	-16.773
	I F"	10.602	10.603	10.605	10.606	10.607	10.608	10.609	10.610	10.611	10.613
1.993	I F'	-16.829	-16.885	-16.943	-17.003	-17.064	-17.127	-17.192	-17.259	-17.327	-17.398
	I F"	10.614	10.615	10.616	10.617	10.618	10.619	10.621	10.622	10.623	10.624
1.994	I F'	-17.471	-17.546	-17.624	-17.705	-17.789	-17.876	-17.966	-18.060	-18.158	-18.260
	I F"	10.625	10.626	10.628	10.629	10.630	10.631	10.632	10.633	10.634	10.636
1.995	I F'	-18.367	-18.480	-18.598	-18.723	-18.855	-18.995	-19.144	-19.304	-19.475	-19.661
	I F"	10.637	10.638	10.639	10.640	10.641	10.642	10.644	10.645	10.646	10.647
1.996	I F'	-19.863	-20.085	-20.331	-20.607	-20.920	-21.284	-21.718	-22.234	-22.958	-23.984
	I F"	10.648	10.649	10.651	10.652	10.653	10.654	10.655	10.656	10.657	10.659
1.997	I F'	-25.910	-28.293	-24.696	-23.375	-22.548	-21.945	-21.470	-21.078	-20.744	-20.453
	I F"	10.660	3.554	3.554	3.555	3.555	3.555	3.556	3.556	3.556	3.556
1.998	I F'	-20.196	-19.965	-19.756	-19.565	-19.389	-19.225	-19.073	-18.930	-18.796	-18.670
	I F"	3.557	3.557	3.557	3.558	3.558	3.558	3.558	3.559	3.559	3.559
1.999	I F'	-18.550	-18.436	-18.328	-18.225	-18.126	-18.032	-17.941	-17.854	-17.770	-17.689
	I F"	3.560	3.560	3.560	3.561	3.561	3.561	3.561	3.562	3.562	3.562
2.000	I F'	-17.611	-17.536	-17.463	-17.393	-17.324	-17.258	-17.193	-17.131	-17.070	-17.011
	I F"	3.562	3.563	3.563	3.563	3.564	3.564	3.564	3.564	3.565	3.565
2.001	I F'	-16.953	-16.897	-16.842	-16.788	-16.736	-16.685	-16.635	-16.586	-16.538	-16.491
	I F"	3.565	3.566	3.566	3.566	3.566	3.567	3.567	3.567	3.568	3.568
2.002	I F'	-16.445	-16.400	-16.356	-16.313	-16.271	-16.229	-16.188	-16.148	-16.109	-16.070
	I F"	3.568	3.568	3.569	3.569	3.569	3.570	3.570	3.570	3.570	3.571
2.003	I F'	-16.032	-15.995	-15.958	-15.922	-15.886	-15.851	-15.817	-15.783	-15.749	-15.716
	I F"	3.571	3.571	3.572	3.572	3.572	3.572	3.573	3.573	3.573	3.574
2.004	I F'	-15.684	-15.652	-15.620	-15.589	-15.559	-15.529	-15.499	-15.469	-15.440	-15.412
	I F"	3.574	3.574	3.575	3.575	3.575	3.575	3.576	3.576	3.576	3.577
2.005	I F'	-15.383	-15.355	-15.328	-15.300	-15.273	-15.247	-15.221	-15.195	-15.169	-15.144
	I F"	3.577	3.577	3.577	3.578	3.578	3.578	3.579	3.579	3.579	3.579
2.006	I F'	-15.118	-15.094	-15.069	-15.045	-15.021	-14.997	-14.974	-14.950	-14.927	-14.905
	I F"	3.580	3.580	3.580	3.581	3.581	3.581	3.581	3.582	3.582	3.582
2.007	I F'	-14.882	-14.860	-14.838	-14.816	-14.794	-14.773	-14.751	-14.730	-14.710	-14.689
	I F"	3.583	3.583	3.583	3.583	3.584	3.584	3.584	3.585	3.585	3.585
2.008	I F'	-14.668	-14.648	-14.628	-14.608	-14.588	-14.569	-14.550	-14.530	-14.511	-14.492
	I F"	3.585	3.586	3.586	3.586	3.587	3.587	3.587	3.587	3.588	3.588
2.009	I F'	-14.474	-14.455	-14.437	-14.418	-14.400	-14.382	-14.365	-14.347	-14.329	-14.312
	I F"	3.588	3.589	3.589	3.589	3.589	3.590	3.590	3.590	3.591	3.591
2.010	I F'	-14.295	-14.278	-14.261	-14.244	-14.227	-14.210	-14.194	-14.178	-14.161	-14.145
	I F"	3.591	3.591	3.592	3.592	3.592	3.593	3.593	3.593	3.593	3.594

ATOMIC SYMBOL = PM		ATOMIC NUMBER = 61		L ₃ ABSORPTION EDGE (1.91910 Å; 6.4601 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.905	I F'	-13.768	-13.783	-13.799	-13.815	-13.831	-13.848	-13.864	-13.881	-13.897	-13.914
	I F''	10.460	10.462	10.463	10.464	10.465	10.466	10.467	10.468	10.470	10.471
1.906	I F'	-13.931	-13.948	-13.965	-13.982	-14.000	-14.017	-14.035	-14.053	-14.071	-14.089
	I F''	10.472	10.473	10.474	10.475	10.477	10.478	10.479	10.480	10.481	10.482
1.907	I F'	-14.107	-14.125	-14.144	-14.163	-14.181	-14.201	-14.220	-14.239	-14.259	-14.278
	I F''	10.483	10.485	10.486	10.487	10.488	10.489	10.490	10.492	10.493	10.494
1.908	I F'	-14.298	-14.318	-14.338	-14.359	-14.379	-14.400	-14.421	-14.442	-14.464	-14.485
	I F''	10.495	10.496	10.497	10.498	10.500	10.501	10.502	10.503	10.504	10.505
1.909	I F'	-14.507	-14.529	-14.551	-14.574	-14.597	-14.619	-14.643	-14.666	-14.690	-14.714
	I F''	10.507	10.508	10.509	10.510	10.511	10.512	10.514	10.515	10.516	10.517
1.910	I F'	-14.738	-14.762	-14.787	-14.812	-14.837	-14.862	-14.888	-14.914	-14.941	-14.967
	I F''	10.518	10.519	10.520	10.522	10.523	10.524	10.525	10.526	10.527	10.529
1.911	I F'	-14.994	-15.022	-15.049	-15.077	-15.106	-15.134	-15.164	-15.193	-15.223	-15.253
	I F''	10.530	10.531	10.532	10.533	10.534	10.536	10.537	10.538	10.539	10.540
1.912	I F'	-15.284	-15.315	-15.346	-15.378	-15.411	-15.444	-15.477	-15.511	-15.545	-15.580
	I F''	10.541	10.543	10.544	10.545	10.546	10.547	10.548	10.550	10.551	10.552
1.913	I F'	-15.616	-15.652	-15.688	-15.726	-15.763	-15.802	-15.841	-15.881	-15.921	-15.963
	I F''	10.553	10.554	10.555	10.557	10.558	10.559	10.560	10.561	10.562	10.563
1.914	I F'	-16.005	-16.048	-16.091	-16.136	-16.181	-16.227	-16.275	-16.323	-16.372	-16.423
	I F''	10.565	10.566	10.567	10.568	10.569	10.570	10.572	10.573	10.574	10.575
1.915	I F'	-16.474	-16.527	-16.581	-16.636	-16.693	-16.751	-16.811	-16.872	-16.935	-17.000
	I F''	10.576	10.577	10.579	10.580	10.581	10.582	10.583	10.584	10.586	10.587
1.916	I F'	-17.066	-17.135	-17.206	-17.279	-17.354	-17.433	-17.513	-17.597	-17.684	-17.775
	I F''	10.588	10.589	10.590	10.591	10.593	10.594	10.595	10.596	10.597	10.598
1.917	I F'	-17.869	-17.968	-18.071	-18.178	-18.292	-18.411	-18.536	-18.670	-18.811	-18.962
	I F''	10.600	10.601	10.602	10.603	10.604	10.606	10.607	10.608	10.609	10.610
1.918	I F'	-19.123	-19.273	-19.486	-19.692	-19.918	-20.169	-20.452	-20.776	-21.154	-21.608
	I F''	10.611	10.613	10.614	10.615	10.616	10.617	10.618	10.620	10.621	10.622
1.919	I F'	-22.177	-22.941	-24.107	-26.662	-26.367	-23.990	-22.864	-22.119	-21.561	-21.116
	I F''	10.623	10.624	10.625	10.627	3.574	3.574	3.575	3.575	3.575	3.575
1.920	I F'	-20.744	-20.426	-20.147	-19.900	-19.677	-19.475	-19.289	-19.118	-18.959	-18.810
	I F''	3.576	3.576	3.576	3.577	3.577	3.577	3.578	3.578	3.578	3.578
1.921	I F'	-18.671	-18.540	-18.417	-18.300	-18.188	-18.082	-17.981	-17.885	-17.792	-17.703
	I F''	3.579	3.579	3.579	3.580	3.580	3.580	3.581	3.581	3.581	3.581
1.922	I F'	-17.618	-17.535	-17.456	-17.379	-17.305	-17.233	-17.164	-17.097	-17.031	-16.968
	I F''	3.582	3.582	3.582	3.583	3.583	3.583	3.584	3.584	3.584	3.584
1.923	I F'	-16.906	-16.846	-16.788	-16.731	-16.675	-16.621	-16.568	-16.517	-16.466	-16.417
	I F''	3.585	3.585	3.585	3.586	3.586	3.586	3.587	3.587	3.587	3.587
1.924	I F'	-16.369	-16.322	-16.276	-16.230	-16.186	-16.142	-16.100	-16.058	-16.017	-15.977
	I F''	3.588	3.588	3.588	3.589	3.589	3.589	3.590	3.590	3.590	3.590
1.925	I F'	-15.937	-15.898	-15.860	-15.823	-15.786	-15.749	-15.714	-15.678	-15.644	-15.610
	I F''	3.591	3.591	3.591	3.592	3.592	3.592	3.593	3.593	3.593	3.593
1.926	I F'	-15.576	-15.543	-15.511	-15.479	-15.447	-15.416	-15.385	-15.355	-15.325	-15.295
	I F''	3.594	3.594	3.594	3.595	3.595	3.595	3.596	3.596	3.596	3.596
1.927	I F'	-15.266	-15.238	-15.209	-15.181	-15.154	-15.126	-15.099	-15.073	-15.046	-15.020
	I F''	3.597	3.597	3.597	3.598	3.598	3.598	3.599	3.599	3.599	3.599
1.928	I F'	-14.995	-14.969	-14.944	-14.919	-14.895	-14.871	-14.847	-14.823	-14.799	-14.774
	I F''	3.600	3.600	3.600	3.601	3.601	3.601	3.602	3.602	3.602	3.602
1.929	I F'	-14.753	-14.730	-14.708	-14.686	-14.664	-14.642	-14.620	-14.599	-14.577	-14.556
	I F''	3.603	3.603	3.603	3.604	3.604	3.604	3.605	3.605	3.605	3.605
1.930	I F'	-14.536	-14.515	-14.495	-14.474	-14.454	-14.434	-14.415	-14.395	-14.376	-14.357
	I F''	3.606	3.606	3.606	3.607	3.607	3.607	3.608	3.608	3.608	3.608
1.931	I F'	-14.338	-14.319	-14.300	-14.282	-14.263	-14.245	-14.227	-14.209	-14.191	-14.174
	I F''	3.609	3.609	3.609	3.610	3.610	3.610	3.611	3.611	3.611	3.611
1.932	I F'	-14.156	-14.139	-14.122	-14.105	-14.088	-14.071	-14.054	-14.038	-14.021	-14.005
	I F''	3.612	3.612	3.612	3.613	3.613	3.613	3.614	3.614	3.614	3.614

ATOMIC SYMBOL = SM ATOMIC NUMBER = 62 L₃ ABSORPTION EDGE (1.84570 Å; 6.7170 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.832	I	F'	-13.638	-13.654	-13.670	-13.687	-13.704	-13.721	-13.737	-13.755	-13.772	-13.789
	I	F''	10.475	10.476	10.478	10.479	10.480	10.481	10.483	10.484	10.485	10.487
1.833	I	F'	-13.807	-13.824	-13.842	-13.860	-13.878	-13.896	-13.915	-13.933	-13.952	-13.971
	I	F''	10.488	10.489	10.490	10.492	10.493	10.494	10.495	10.497	10.498	10.499
1.834	I	F'	-13.989	-14.009	-14.028	-14.047	-14.067	-14.087	-14.107	-14.127	-14.147	-14.168
	I	F''	10.501	10.502	10.503	10.504	10.506	10.507	10.508	10.509	10.511	10.512
1.835	I	F'	-14.189	-14.209	-14.231	-14.252	-14.273	-14.295	-14.317	-14.339	-14.361	-14.384
	I	F''	10.513	10.515	10.516	10.517	10.518	10.520	10.521	10.522	10.524	10.525
1.836	I	F'	-14.407	-14.430	-14.453	-14.477	-14.500	-14.524	-14.549	-14.573	-14.598	-14.623
	I	F''	10.526	10.527	10.529	10.530	10.531	10.533	10.534	10.535	10.536	10.538
1.837	I	F'	-14.648	-14.674	-14.700	-14.726	-14.753	-14.780	-14.807	-14.834	-14.862	-14.890
	I	F''	10.539	10.540	10.541	10.543	10.544	10.545	10.547	10.548	10.549	10.550
1.838	I	F'	-14.919	-14.948	-14.977	-15.007	-15.037	-15.067	-15.098	-15.129	-15.161	-15.193
	I	F''	10.552	10.553	10.554	10.556	10.557	10.558	10.559	10.561	10.562	10.563
1.839	I	F'	-15.226	-15.259	-15.292	-15.326	-15.361	-15.396	-15.432	-15.468	-15.505	-15.542
	I	F''	10.565	10.566	10.567	10.568	10.570	10.571	10.572	10.574	10.575	10.576
1.840	I	F'	-15.580	-15.619	-15.658	-15.698	-15.739	-15.781	-15.823	-15.866	-15.910	-15.955
	I	F''	10.577	10.579	10.580	10.581	10.583	10.584	10.585	10.586	10.588	10.589
1.841	I	F'	-16.000	-16.047	-16.094	-16.143	-16.193	-16.243	-16.295	-16.348	-16.403	-16.458
	I	F''	10.590	10.592	10.593	10.594	10.596	10.597	10.598	10.599	10.601	10.602
1.842	I	F'	-16.516	-16.574	-16.634	-16.696	-16.759	-16.825	-16.892	-16.961	-17.032	-17.106
	I	F''	10.603	10.605	10.606	10.607	10.608	10.610	10.611	10.612	10.614	10.615
1.843	I	F'	-17.182	-17.261	-17.342	-17.427	-17.515	-17.606	-17.701	-17.801	-17.905	-18.014
	I	F''	10.616	10.617	10.619	10.620	10.621	10.623	10.624	10.625	10.627	10.628
1.844	I	F'	-18.128	-18.248	-18.375	-18.510	-18.653	-18.806	-18.970	-19.146	-19.338	-19.547
	I	F''	10.629	10.630	10.632	10.633	10.634	10.636	10.637	10.638	10.640	10.641
1.845	I	F'	-19.778	-20.034	-20.324	-20.656	-21.045	-21.515	-22.111	-22.922	-24.201	-27.462
	I	F''	10.642	10.643	10.645	10.646	10.647	10.649	10.650	10.651	10.652	10.654
1.846	I	F'	-25.982	-23.384	-22.545	-21.839	-21.303	-20.872	-20.510	-20.199	-19.926	-19.683
	I	F''	3.594	3.594	3.595	3.595	3.595	3.596	3.596	3.596	3.597	3.597
1.847	I	F'	-19.464	-19.264	-19.081	-18.912	-18.755	-18.608	-18.470	-18.341	-18.218	-18.102
	I	F''	3.597	3.598	3.598	3.598	3.599	3.599	3.599	3.599	3.600	3.600
1.848	I	F'	-17.992	-17.887	-17.786	-17.690	-17.598	-17.510	-17.425	-17.343	-17.264	-17.188
	I	F''	3.600	3.601	3.601	3.601	3.602	3.602	3.602	3.603	3.603	3.603
1.849	I	F'	-17.114	-17.043	-16.974	-16.907	-16.842	-16.779	-16.718	-16.658	-16.600	-16.543
	I	F''	3.604	3.604	3.604	3.605	3.605	3.605	3.605	3.606	3.606	3.606
1.850	I	F'	-16.488	-16.434	-16.382	-16.330	-16.280	-16.231	-16.183	-16.136	-16.090	-16.045
	I	F''	3.607	3.607	3.607	3.608	3.608	3.608	3.609	3.609	3.609	3.610
1.851	I	F'	-16.001	-15.958	-15.915	-15.873	-15.833	-15.792	-15.753	-15.714	-15.676	-15.639
	I	F''	3.610	3.610	3.610	3.611	3.611	3.611	3.612	3.612	3.612	3.613
1.852	I	F'	-15.602	-15.566	-15.530	-15.495	-15.461	-15.427	-15.394	-15.361	-15.328	-15.296
	I	F''	3.613	3.613	3.614	3.614	3.614	3.615	3.615	3.615	3.616	3.616
1.853	I	F'	-15.265	-15.234	-15.203	-15.173	-15.143	-15.114	-15.085	-15.056	-15.028	-15.000
	I	F''	3.616	3.616	3.617	3.617	3.618	3.618	3.618	3.618	3.619	3.619
1.854	I	F'	-14.919	-14.946	-14.919	-14.892	-14.866	-14.840	-14.815	-14.789	-14.763	-14.739
	I	F''	3.619	3.620	3.620	3.620	3.621	3.621	3.621	3.621	3.622	3.622
1.855	I	F'	-14.715	-14.691	-14.667	-14.643	-14.620	-14.597	-14.574	-14.551	-14.529	-14.507
	I	F''	3.622	3.623	3.623	3.623	3.624	3.624	3.624	3.625	3.625	3.625
1.856	I	F'	-14.485	-14.463	-14.441	-14.420	-14.399	-14.378	-14.357	-14.337	-14.316	-14.296
	I	F''	3.626	3.626	3.626	3.627	3.627	3.627	3.627	3.628	3.628	3.628
1.857	I	F'	-14.280	-14.260	-14.240	-14.221	-14.202	-14.182	-14.164	-14.145	-14.126	-14.108
	I	F''	3.629	3.629	3.629	3.630	3.630	3.630	3.631	3.631	3.631	3.632
1.858	I	F'	-14.089	-14.071	-14.053	-14.035	-14.018	-14.000	-13.983	-13.966	-13.948	-13.931
	I	F''	3.632	3.632	3.633	3.633	3.633	3.633	3.634	3.634	3.634	3.635
1.859	I	F'	-13.915	-13.898	-13.881	-13.865	-13.848	-13.832	-13.816	-13.800	-13.784	-13.768
	I	F''	3.635	3.635	3.636	3.636	3.636	3.637	3.637	3.637	3.638	3.638

ATOMIC SYMBOL = EU ATOMIC NUMBER = 63 L₃ ABSORPTION EDGE (1.77610 Å; 6.9803 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.763	I	F'	-13.447	-13.463	-13.480	-13.496	-13.513	-13.530	-13.546	-13.563	-13.581	-13.598
	I	F''	10.459	10.460	10.461	10.463	10.464	10.466	10.467	10.468	10.470	10.471
1.764	I	F'	-13.615	-13.633	-13.651	-13.668	-13.686	-13.705	-13.723	-13.741	-13.760	-13.779
	I	F''	10.472	10.474	10.475	10.476	10.478	10.479	10.480	10.482	10.483	10.484
1.765	I	F'	-13.797	-13.817	-13.836	-13.855	-13.875	-13.894	-13.914	-13.934	-13.955	-13.975
	I	F''	10.486	10.487	10.488	10.490	10.491	10.493	10.494	10.495	10.497	10.498
1.766	I	F'	-13.996	-14.016	-14.038	-14.059	-14.080	-14.102	-14.124	-14.146	-14.168	-14.190
	I	F''	10.499	10.501	10.502	10.503	10.505	10.506	10.507	10.509	10.510	10.512
1.767	I	F'	-14.213	-14.236	-14.259	-14.283	-14.306	-14.330	-14.354	-14.379	-14.403	-14.428
	I	F''	10.513	10.514	10.516	10.517	10.518	10.520	10.521	10.522	10.524	10.525
1.768	I	F'	-14.453	-14.479	-14.505	-14.531	-14.557	-14.584	-14.611	-14.638	-14.666	-14.694
	I	F''	10.526	10.528	10.529	10.531	10.532	10.533	10.535	10.536	10.537	10.539
1.769	I	F'	-14.723	-14.751	-14.780	-14.810	-14.840	-14.870	-14.901	-14.932	-14.963	-14.995
	I	F''	10.540	10.541	10.543	10.544	10.546	10.547	10.548	10.550	10.551	10.552
1.770	I	F'	-15.028	-15.061	-15.094	-15.128	-15.162	-15.197	-15.233	-15.269	-15.305	-15.342
	I	F''	10.554	10.555	10.556	10.558	10.559	10.561	10.562	10.563	10.565	10.566
1.771	I	F'	-15.380	-15.419	-15.458	-15.498	-15.538	-15.579	-15.621	-15.664	-15.708	-15.752
	I	F''	10.567	10.569	10.570	10.571	10.573	10.574	10.576	10.577	10.578	10.580
1.772	I	F'	-15.798	-15.844	-15.891	-15.939	-15.988	-16.039	-16.090	-16.147	-16.200	-16.255
	I	F''	10.581	10.582	10.584	10.585	10.587	10.588	10.589	10.591	10.592	10.593
1.773	I	F'	-16.312	-16.370	-16.429	-16.490	-16.553	-16.618	-16.684	-16.753	-16.823	-16.896
	I	F''	10.595	10.596	10.598	10.599	10.600	10.602	10.603	10.604	10.606	10.607
1.774	I	F'	-16.972	-17.050	-17.130	-17.214	-17.301	-17.391	-17.485	-17.583	-17.685	-17.793
	I	F''	10.608	10.610	10.611	10.613	10.614	10.615	10.617	10.618	10.619	10.621
1.775	I	F'	-17.905	-18.024	-18.149	-18.281	-18.422	-18.572	-18.732	-18.905	-19.092	-19.296
	I	F''	10.622	10.624	10.625	10.626	10.628	10.629	10.631	10.632	10.633	10.635
1.776	I	F'	-19.520	-19.769	-20.049	-20.368	-20.740	-21.186	-21.743	-22.485	-23.601	-25.916
	I	F''	10.636	10.637	10.639	10.640	10.642	10.643	10.644	10.646	10.647	10.648
1.777	I	F'	-26.344	-23.724	-22.552	-21.789	-21.221	-20.769	-20.394	-20.073	-19.792	-19.543
	I	F''	3.613	3.613	3.613	3.614	3.614	3.614	3.615	3.615	3.615	3.616
1.778	I	F'	-19.320	-19.116	-18.930	-18.758	-18.599	-18.450	-18.311	-18.180	-18.056	-17.939
	I	F''	3.616	3.616	3.617	3.617	3.617	3.618	3.618	3.618	3.619	3.619
1.779	I	F'	-17.828	-17.722	-17.621	-17.524	-17.432	-17.343	-17.257	-17.175	-17.096	-17.019
	I	F''	3.619	3.620	3.620	3.620	3.621	3.621	3.621	3.622	3.622	3.622
1.780	I	F'	-16.945	-16.874	-16.805	-16.737	-16.672	-16.609	-16.547	-16.488	-16.429	-16.373
	I	F''	3.622	3.623	3.623	3.623	3.624	3.624	3.624	3.625	3.625	3.625
1.781	I	F'	-16.317	-16.263	-16.211	-16.159	-16.109	-16.060	-16.012	-15.965	-15.919	-15.874
	I	F''	3.626	3.626	3.626	3.627	3.627	3.627	3.628	3.628	3.628	3.628
1.782	I	F'	-15.830	-15.786	-15.744	-15.702	-15.661	-15.621	-15.582	-15.543	-15.505	-15.468
	I	F''	3.629	3.629	3.630	3.630	3.630	3.631	3.631	3.631	3.632	3.632
1.783	I	F'	-15.431	-15.395	-15.359	-15.324	-15.290	-15.256	-15.223	-15.190	-15.157	-15.126
	I	F''	3.632	3.633	3.633	3.633	3.634	3.634	3.634	3.635	3.635	3.635
1.784	I	F'	-15.094	-15.063	-15.033	-15.002	-14.973	-14.943	-14.914	-14.886	-14.858	-14.830
	I	F''	3.636	3.636	3.636	3.637	3.637	3.637	3.638	3.638	3.638	3.639
1.785	I	F'	-14.802	-14.775	-14.748	-14.722	-14.696	-14.670	-14.644	-14.619	-14.594	-14.570
	I	F''	3.639	3.639	3.640	3.640	3.640	3.641	3.641	3.641	3.642	3.642
1.786	I	F'	-14.545	-14.521	-14.497	-14.474	-14.450	-14.427	-14.404	-14.382	-14.359	-14.337
	I	F''	3.642	3.643	3.643	3.643	3.643	3.644	3.644	3.644	3.645	3.645
1.787	I	F'	-14.315	-14.294	-14.272	-14.251	-14.230	-14.209	-14.188	-14.168	-14.148	-14.128
	I	F''	3.645	3.646	3.646	3.646	3.647	3.647	3.647	3.648	3.648	3.648
1.788	I	F'	-14.108	-14.088	-14.068	-14.049	-14.030	-14.011	-13.992	-13.973	-13.955	-13.936
	I	F''	3.649	3.649	3.649	3.650	3.650	3.650	3.651	3.651	3.651	3.652
1.789	I	F'	-13.918	-13.900	-13.882	-13.864	-13.847	-13.829	-13.812	-13.795	-13.778	-13.761
	I	F''	3.652	3.652	3.653	3.653	3.653	3.654	3.654	3.654	3.655	3.655
1.790	I	F'	-13.744	-13.727	-13.711	-13.694	-13.678	-13.662	-13.646	-13.630	-13.614	-13.598
	I	F''	3.655	3.656	3.656	3.656	3.657	3.657	3.657	3.658	3.658	3.658

ATOMIC SYMBOL = Gd			ATOMIC NUMBER = 64		L ₃ ABSORPTION EDGE (1.71170 Å; 7.2429 KEV)							
	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.698	I	F'	-13.333	-13.350	-13.366	-13.383	-13.400	-13.417	-13.434	-13.451	-13.469	-13.486
	I	F''	-10.420	-10.421	-10.423	-10.424	-10.426	-10.427	-10.428	-10.430	-10.431	-10.432
1.699	I	F'	-13.504	-13.521	-13.539	-13.557	-13.575	-13.594	-13.612	-13.631	-13.650	-13.669
	I	F''	-10.434	-10.435	-10.437	-10.438	-10.439	-10.441	-10.442	-10.443	-10.445	-10.446
1.700	I	F'	-13.688	-13.707	-13.727	-13.746	-13.766	-13.786	-13.806	-13.826	-13.847	-13.868
	I	F''	-10.448	-10.449	-10.450	-10.452	-10.453	-10.455	-10.456	-10.457	-10.459	-10.460
1.701	I	F'	-13.889	-13.910	-13.931	-13.953	-13.974	-13.996	-14.018	-14.041	-14.063	-14.086
	I	F''	-10.461	-10.463	-10.464	-10.466	-10.467	-10.468	-10.470	-10.471	-10.472	-10.474
1.702	I	F'	-14.109	-14.133	-14.156	-14.180	-14.204	-14.228	-14.253	-14.278	-14.303	-14.328
	I	F''	-10.475	-10.477	-10.478	-10.479	-10.481	-10.482	-10.484	-10.485	-10.486	-10.488
1.703	I	F'	-14.354	-14.380	-14.406	-14.433	-14.460	-14.487	-14.515	-14.543	-14.571	-14.600
	I	F''	-10.489	-10.490	-10.492	-10.493	-10.495	-10.496	-10.497	-10.499	-10.500	-10.502
1.704	I	F'	-14.629	-14.658	-14.688	-14.718	-14.749	-14.780	-14.811	-14.843	-14.875	-14.908
	I	F''	-10.503	-10.504	-10.506	-10.507	-10.509	-10.510	-10.511	-10.513	-10.514	-10.515
1.705	I	F'	-14.941	-14.975	-15.010	-15.044	-15.080	-15.116	-15.152	-15.189	-15.227	-15.266
	I	F''	-10.517	-10.518	-10.520	-10.521	-10.522	-10.524	-10.525	-10.527	-10.528	-10.529
1.706	I	F'	-15.305	-15.344	-15.385	-15.426	-15.468	-15.511	-15.554	-15.599	-15.644	-15.690
	I	F''	-10.531	-10.532	-10.534	-10.535	-10.536	-10.538	-10.539	-10.541	-10.542	-10.543
1.707	I	F'	-15.737	-15.786	-15.835	-15.885	-15.937	-15.989	-16.043	-16.099	-16.155	-16.213
	I	F''	-10.545	-10.546	-10.548	-10.549	-10.550	-10.552	-10.553	-10.555	-10.556	-10.557
1.708	I	F'	-16.273	-16.334	-16.397	-16.462	-16.529	-16.597	-16.668	-16.742	-16.817	-16.895
	I	F''	-10.559	-10.560	-10.562	-10.563	-10.564	-10.566	-10.567	-10.569	-10.570	-10.571
1.709	I	F'	-16.976	-17.061	-17.148	-17.239	-17.333	-17.432	-17.536	-17.644	-17.758	-17.878
	I	F''	-10.573	-10.574	-10.576	-10.577	-10.578	-10.580	-10.581	-10.583	-10.584	-10.585
1.710	I	F'	-18.004	-18.138	-18.281	-18.433	-18.597	-18.773	-18.964	-19.173	-19.404	-19.661
	I	F''	-10.587	-10.588	-10.590	-10.591	-10.592	-10.594	-10.595	-10.597	-10.598	-10.599
1.711	I	F'	-19.952	-20.286	-20.678	-21.155	-21.762	-22.599	-23.955	-28.020	-24.776	-22.995
	I	F''	-10.601	-10.602	-10.604	-10.605	-10.606	-10.608	-10.609	-10.611	-10.612	-10.613
1.712	I	F'	-22.022	-21.349	-20.833	-20.416	-20.065	-19.763	-19.497	-19.259	-19.045	-18.850
	I	F''	-10.632	-10.633	-10.633	-10.633	-10.634	-10.634	-10.634	-10.635	-10.635	-10.635
1.713	I	F'	-18.671	-18.505	-18.351	-18.207	-18.072	-17.945	-17.824	-17.710	-17.602	-17.499
	I	F''	-10.636	-10.636	-10.636	-10.637	-10.637	-10.637	-10.638	-10.638	-10.638	-10.639
1.714	I	F'	-17.400	-17.306	-17.215	-17.129	-17.045	-16.965	-16.887	-16.812	-16.740	-16.670
	I	F''	-10.639	-10.639	-10.640	-10.640	-10.640	-10.641	-10.641	-10.641	-10.642	-10.642
1.715	I	F'	-16.602	-16.536	-16.472	-16.410	-16.349	-16.291	-16.233	-16.178	-16.123	-16.070
	I	F''	-10.642	-10.643	-10.643	-10.644	-10.644	-10.644	-10.645	-10.645	-10.645	-10.646
1.716	I	F'	-16.018	-15.968	-15.918	-15.870	-15.823	-15.777	-15.731	-15.687	-15.644	-15.601
	I	F''	-10.646	-10.646	-10.647	-10.647	-10.647	-10.648	-10.648	-10.648	-10.649	-10.649
1.717	I	F'	-15.559	-15.518	-15.478	-15.438	-15.400	-15.361	-15.324	-15.287	-15.251	-15.215
	I	F''	-10.649	-10.650	-10.650	-10.650	-10.651	-10.651	-10.651	-10.652	-10.652	-10.653
1.718	I	F'	-15.180	-15.146	-15.112	-15.078	-15.046	-15.013	-14.981	-14.950	-14.919	-14.888
	I	F''	-10.653	-10.653	-10.653	-10.654	-10.654	-10.654	-10.655	-10.655	-10.655	-10.656
1.719	I	F'	-14.858	-14.828	-14.799	-14.770	-14.742	-14.713	-14.686	-14.658	-14.631	-14.604
	I	F''	-10.656	-10.657	-10.657	-10.657	-10.658	-10.658	-10.658	-10.659	-10.659	-10.660
1.720	I	F'	-14.578	-14.552	-14.526	-14.500	-14.475	-14.450	-14.426	-14.401	-14.377	-14.353
	I	F''	-10.660	-10.660	-10.660	-10.661	-10.661	-10.661	-10.662	-10.662	-10.662	-10.663
1.721	I	F'	-14.330	-14.307	-14.284	-14.261	-14.238	-14.216	-14.194	-14.172	-14.150	-14.129
	I	F''	-10.663	-10.663	-10.664	-10.664	-10.664	-10.665	-10.665	-10.665	-10.666	-10.666
1.722	I	F'	-14.108	-14.087	-14.066	-14.045	-14.025	-14.005	-13.985	-13.965	-13.945	-13.926
	I	F''	-10.666	-10.667	-10.667	-10.667	-10.668	-10.668	-10.669	-10.669	-10.669	-10.670
1.723	I	F'	-13.906	-13.887	-13.868	-13.849	-13.831	-13.812	-13.794	-13.776	-13.758	-13.740
	I	F''	-10.670	-10.670	-10.671	-10.671	-10.672	-10.672	-10.672	-10.673	-10.673	-10.673
1.724	I	F'	-13.722	-13.705	-13.687	-13.670	-13.653	-13.636	-13.619	-13.602	-13.586	-13.569
	I	F''	-10.673	-10.674	-10.674	-10.674	-10.675	-10.675	-10.675	-10.676	-10.676	-10.677
1.725	I	F'	-13.553	-13.536	-13.520	-13.504	-13.489	-13.473	-13.457	-13.442	-13.426	-13.411
	I	F''	-10.677	-10.677	-10.677	-10.678	-10.678	-10.678	-10.679	-10.679	-10.679	-10.680

ATOMIC SYMBOL = Tb		ATOMIC NUMBER = 65		L ₃ ABSORPTION EDGE (1.64970 Å; 7.5151 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.635	I	F'	-12.979	-12.994	-13.009	-13.024	-13.040	-13.055	-13.071	-13.086	-13.102
	I	F''	-10.396	-10.398	-10.399	-10.401	-10.402	-10.404	-10.405	-10.406	-10.409
1.636	I	F'	-13.134	-13.150	-13.167	-13.183	-13.199	-13.216	-13.233	-13.250	-13.267
	I	F''	-10.411	-10.412	-10.414	-10.415	-10.417	-10.418	-10.420	-10.421	-10.422
1.637	I	F'	-13.301	-13.319	-13.336	-13.354	-13.372	-13.390	-13.408	-13.426	-13.444
	I	F''	-10.425	-10.427	-10.428	-10.430	-10.431	-10.433	-10.434	-10.436	-10.437
1.638	I	F'	-13.482	-13.501	-13.520	-13.539	-13.558	-13.578	-13.598	-13.618	-13.638
	I	F''	-10.440	-10.441	-10.443	-10.444	-10.446	-10.447	-10.449	-10.450	-10.452
1.639	I	F'	-13.678	-13.699	-13.720	-13.741	-13.762	-13.784	-13.805	-13.827	-13.849
	I	F''	-10.455	-10.456	-10.458	-10.459	-10.460	-10.462	-10.463	-10.465	-10.466
1.640	I	F'	-13.894	-13.917	-13.940	-13.963	-13.986	-14.010	-14.034	-14.058	-14.083
	I	F''	-10.469	-10.471	-10.472	-10.474	-10.475	-10.477	-10.478	-10.480	-10.481
1.641	I	F'	-14.133	-14.158	-14.184	-14.209	-14.236	-14.262	-14.289	-14.316	-14.344
	I	F''	-10.484	-10.485	-10.487	-10.488	-10.490	-10.491	-10.493	-10.494	-10.496
1.642	I	F'	-14.400	-14.428	-14.457	-14.486	-14.516	-14.546	-14.577	-14.607	-14.639
	I	F''	-10.499	-10.500	-10.502	-10.503	-10.505	-10.506	-10.508	-10.509	-10.511
1.643	I	F'	-14.703	-14.735	-14.768	-14.802	-14.836	-14.871	-14.906	-14.942	-14.978
	I	F''	-10.514	-10.515	-10.516	-10.518	-10.519	-10.521	-10.522	-10.524	-10.525
1.644	I	F'	-15.053	-15.091	-15.130	-15.169	-15.210	-15.251	-15.292	-15.335	-15.378
	I	F''	-10.528	-10.530	-10.531	-10.533	-10.534	-10.536	-10.537	-10.539	-10.540
1.645	I	F'	-15.467	-15.513	-15.560	-15.608	-15.657	-15.707	-15.758	-15.811	-15.864
	I	F''	-10.543	-10.545	-10.546	-10.548	-10.549	-10.551	-10.552	-10.554	-10.555
1.646	I	F'	-15.976	-16.033	-16.093	-16.153	-16.216	-16.280	-16.346	-16.415	-16.485
	I	F''	-10.558	-10.560	-10.561	-10.563	-10.564	-10.566	-10.567	-10.568	-10.570
1.647	I	F'	-16.633	-16.710	-16.790	-16.874	-16.960	-17.050	-17.144	-17.242	-17.344
	I	F''	-10.573	-10.574	-10.576	-10.577	-10.579	-10.580	-10.582	-10.583	-10.585
1.648	I	F'	-17.363	-17.462	-17.567	-17.679	-17.795	-17.916	-18.041	-18.169	-18.299
	I	F''	-10.589	-10.589	-10.591	-10.592	-10.594	-10.595	-10.597	-10.598	-10.600
1.649	I	F'	-19.182	-19.433	-19.716	-20.039	-20.418	-20.875	-21.450	-22.227	-23.432
	I	F''	-10.603	-10.604	-10.606	-10.607	-10.609	-10.610	-10.612	-10.613	-10.615
1.650	I	F'	-25.198	-23.063	-22.000	-21.285	-20.747	-20.315	-19.954	-19.644	-19.372
	I	F''	-10.636	-10.636	-10.637	-10.637	-10.637	-10.638	-10.638	-10.639	-10.640
1.651	I	F'	-18.913	-18.715	-18.533	-18.365	-18.210	-18.064	-17.928	-17.800	-17.678
	I	F''	-10.660	-10.660	-10.660	-10.661	-10.661	-10.662	-10.662	-10.662	-10.663
1.652	I	F'	-17.455	-17.351	-17.252	-17.157	-17.066	-16.979	-16.895	-16.814	-16.736
	I	F''	-10.663	-10.663	-10.664	-10.664	-10.665	-10.665	-10.666	-10.666	-10.667
1.653	I	F'	-16.588	-16.518	-16.450	-16.384	-16.320	-16.257	-16.197	-16.138	-16.081
	I	F''	-10.667	-10.667	-10.667	-10.668	-10.668	-10.669	-10.669	-10.670	-10.671
1.654	I	F'	-15.971	-15.917	-15.866	-15.815	-15.766	-15.717	-15.670	-15.624	-15.578
	I	F''	-10.670	-10.671	-10.671	-10.672	-10.672	-10.673	-10.673	-10.674	-10.675
1.655	I	F'	-15.491	-15.448	-15.406	-15.365	-15.325	-15.285	-15.247	-15.208	-15.171
	I	F''	-10.674	-10.674	-10.675	-10.675	-10.675	-10.676	-10.676	-10.677	-10.677
1.656	I	F'	-15.098	-15.062	-15.027	-14.993	-14.959	-14.926	-14.893	-14.861	-14.829
	I	F''	-10.677	-10.678	-10.678	-10.679	-10.679	-10.680	-10.680	-10.681	-10.681
1.657	I	F'	-14.766	-14.736	-14.706	-14.676	-14.647	-14.618	-14.589	-14.561	-14.533
	I	F''	-10.681	-10.681	-10.682	-10.682	-10.683	-10.683	-10.684	-10.684	-10.685
1.658	I	F'	-14.479	-14.452	-14.426	-14.400	-14.374	-14.349	-14.323	-14.299	-14.274
	I	F''	-10.685	-10.685	-10.685	-10.686	-10.686	-10.687	-10.687	-10.688	-10.688
1.659	I	F'	-14.226	-14.202	-14.178	-14.155	-14.132	-14.109	-14.087	-14.064	-14.042
	I	F''	-10.688	-10.689	-10.689	-10.689	-10.690	-10.690	-10.691	-10.691	-10.691
1.660	I	F'	-13.999	-13.978	-13.956	-13.936	-13.915	-13.894	-13.874	-13.854	-13.834
	I	F''	-10.692	-10.692	-10.693	-10.693	-10.693	-10.694	-10.694	-10.695	-10.695
1.661	I	F'	-13.794	-13.775	-13.756	-13.737	-13.718	-13.699	-13.680	-13.662	-13.644
	I	F''	-10.695	-10.696	-10.696	-10.697	-10.697	-10.698	-10.698	-10.699	-10.699
1.662	I	F'	-13.608	-13.590	-13.572	-13.555	-13.537	-13.520	-13.503	-13.486	-13.469
	I	F''	-10.699	-10.699	-10.700	-10.700	-10.700	-10.701	-10.701	-10.702	-10.702

ATOMIC SYMBOL = DY⁺ ATOMIC NUMBER = 66 L₃ ABSORPTION EDGE (1.59160 Å; 7.7894 KEV)

	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.577	I	F ⁺	-12.883	-12.899	-12.914	-12.930	-12.946	-12.961	-12.977	-12.994	-13.010
	I	F ⁺	10.371	10.373	10.374	10.376	10.377	10.379	10.380	10.382	10.385
1.578	I	F ⁺	-13.043	-13.059	-13.076	-13.093	-13.110	-13.127	-13.144	-13.162	-13.179
	I	F ⁺	10.386	10.388	10.389	10.391	10.392	10.394	10.395	10.397	10.400
1.579	I	F ⁺	-13.215	-13.233	-13.251	-13.269	-13.288	-13.306	-13.325	-13.344	-13.363
	I	F ⁺	10.401	10.403	10.404	10.406	10.407	10.409	10.410	10.412	10.415
1.580	I	F ⁺	-13.402	-13.421	-13.441	-13.461	-13.481	-13.502	-13.522	-13.543	-13.565
	I	F ⁺	10.416	10.418	10.420	10.421	10.423	10.424	10.426	10.427	10.430
1.581	I	F ⁺	-13.606	-13.627	-13.649	-13.671	-13.693	-13.716	-13.738	-13.761	-13.787
	I	F ⁺	10.432	10.433	10.435	10.436	10.438	10.439	10.441	10.442	10.445
1.582	I	F ⁺	-13.851	-13.875	-13.899	-13.903	-13.927	-13.952	-13.977	-14.003	-14.029
	I	F ⁺	10.447	10.448	10.450	10.451	10.453	10.454	10.456	10.457	10.459
1.583	I	F ⁺	-14.081	-14.107	-14.134	-14.162	-14.189	-14.217	-14.246	-14.274	-14.303
	I	F ⁺	10.462	10.463	10.465	10.466	10.468	10.470	10.471	10.473	10.474
1.584	I	F ⁺	-14.362	-14.393	-14.423	-14.454	-14.486	-14.518	-14.550	-14.583	-14.616
	I	F ⁺	10.477	10.479	10.480	10.482	10.483	10.485	10.486	10.488	10.489
1.585	I	F ⁺	-14.685	-14.720	-14.755	-14.791	-14.828	-14.865	-14.903	-14.941	-14.980
	I	F ⁺	10.492	10.494	10.495	10.497	10.499	10.500	10.502	10.503	10.505
1.586	I	F ⁺	-15.061	-15.102	-15.144	-15.187	-15.231	-15.276	-15.321	-15.368	-15.415
	I	F ⁺	10.508	10.509	10.511	10.512	10.514	10.515	10.517	10.518	10.520
1.587	I	F ⁺	-15.513	-15.564	-15.616	-15.669	-15.723	-15.779	-15.836	-15.894	-15.955
	I	F ⁺	10.523	10.525	10.526	10.528	10.529	10.531	10.532	10.534	10.535
1.588	I	F ⁺	-16.080	-16.145	-16.213	-16.282	-16.354	-16.428	-16.505	-16.584	-16.666
	I	F ⁺	10.539	10.540	10.542	10.543	10.545	10.546	10.548	10.549	10.551
1.589	I	F ⁺	-16.840	-16.932	-17.029	-17.129	-17.235	-17.346	-17.462	-17.585	-17.715
	I	F ⁺	10.554	10.555	10.557	10.559	10.560	10.562	10.563	10.565	10.568
1.590	I	F ⁺	-18.000	-18.157	-18.326	-18.510	-18.710	-18.929	-19.173	-19.446	-19.758
	I	F ⁺	10.569	10.571	10.574	10.574	10.574	10.579	10.579	10.580	10.582
1.591	I	F ⁺	-20.555	-21.096	-21.813	-22.880	-25.024	-25.951	-23.167	-21.979	-20.646
	I	F ⁺	10.585	10.587	10.588	10.590	10.591	10.591	10.591	10.591	10.591
1.592	I	F ⁺	-20.197	-19.824	-19.506	-19.228	-18.982	-18.760	-18.559	-18.375	-18.206
	I	F ⁺	3.671	3.671	3.672	3.672	3.672	3.673	3.673	3.673	3.674
1.593	I	F ⁺	-17.902	-17.764	-17.635	-17.513	-17.398	-17.288	-17.184	-17.084	-16.989
	I	F ⁺	3.675	3.675	3.675	3.676	3.676	3.676	3.677	3.677	3.678
1.594	I	F ⁺	-16.810	-16.726	-16.645	-16.567	-16.492	-16.419	-16.348	-16.280	-16.214
	I	F ⁺	3.678	3.679	3.679	3.679	3.680	3.680	3.681	3.681	3.682
1.595	I	F ⁺	-16.083	-16.027	-15.968	-15.911	-15.855	-15.801	-15.748	-15.696	-15.645
	I	F ⁺	3.682	3.682	3.683	3.683	3.684	3.684	3.684	3.685	3.685
1.596	I	F ⁺	-15.548	-15.500	-15.454	-15.409	-15.365	-15.321	-15.279	-15.237	-15.196
	I	F ⁺	3.686	3.686	3.687	3.687	3.687	3.688	3.688	3.688	3.689
1.597	I	F ⁺	-15.116	-15.078	-15.040	-15.002	-14.966	-14.929	-14.894	-14.859	-14.825
	I	F ⁺	3.690	3.690	3.690	3.691	3.691	3.692	3.692	3.693	3.693
1.598	I	F ⁺	-14.758	-14.725	-14.693	-14.661	-14.629	-14.599	-14.568	-14.538	-14.508
	I	F ⁺	3.693	3.694	3.694	3.694	3.695	3.695	3.696	3.696	3.697
1.599	I	F ⁺	-14.451	-14.422	-14.394	-14.366	-14.339	-14.312	-14.285	-14.259	-14.233
	I	F ⁺	3.697	3.697	3.698	3.698	3.698	3.699	3.699	3.700	3.700
1.600	I	F ⁺	-14.182	-14.157	-14.132	-14.108	-14.084	-14.060	-14.036	-14.013	-13.989
	I	F ⁺	3.701	3.701	3.701	3.702	3.702	3.703	3.703	3.703	3.704
1.601	I	F ⁺	-13.944	-13.922	-13.899	-13.877	-13.856	-13.834	-13.813	-13.792	-13.771
	I	F ⁺	3.704	3.705	3.705	3.706	3.706	3.706	3.707	3.707	3.708
1.602	I	F ⁺	-13.730	-13.709	-13.689	-13.670	-13.650	-13.630	-13.611	-13.592	-13.573
	I	F ⁺	3.708	3.709	3.709	3.709	3.710	3.710	3.711	3.711	3.712
1.603	I	F ⁺	-13.535	-13.517	-13.498	-13.480	-13.462	-13.444	-13.427	-13.409	-13.392
	I	F ⁺	3.712	3.712	3.713	3.713	3.713	3.714	3.714	3.715	3.715
1.604	I	F ⁺	-13.357	-13.340	-13.323	-13.307	-13.290	-13.273	-13.257	-13.241	-13.225
	I	F ⁺	3.716	3.716	3.716	3.717	3.717	3.718	3.718	3.718	3.719

ATOMIC SYMBOL = HO ATOMIC NUMBER = 67 L₃ ABSORPTION EDGE (1.53680 Å; 8.0672 KEV)

	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.522	I	F ⁺	-12.781	-12.797	-12.813	-12.829	-12.845	-12.862	-12.878	-12.895	-12.911	-12.928
	I	F ⁺	10.361	10.363	10.364	10.366	10.368	10.369	10.371	10.373	10.374	10.376
1.523	I	F ⁺	-12.945	-12.962	-12.980	-12.997	-13.015	-13.032	-13.050	-13.068	-13.086	-13.104
	I	F ⁺	10.377	10.379	10.381	10.382	10.384	10.386	10.387	10.389	10.391	10.392
1.524	I	F ⁺	-13.123	-13.141	-13.160	-13.179	-13.198	-13.217	-13.237	-13.256	-13.276	-13.296
	I	F ⁺	10.394	10.395	10.397	10.399	10.400	10.402	10.404	10.405	10.407	10.409
1.525	I	F ⁺	-13.316	-13.336	-13.357	-13.377	-13.398	-13.419	-13.441	-13.462	-13.484	-13.506
	I	F ⁺	10.410	10.412	10.413	10.415	10.417	10.418	10.420	10.422	10.423	10.425
1.526	I	F ⁺	-13.528	-13.550	-13.573	-13.595	-13.618	-13.642	-13.665	-13.689	-13.713	-13.735
	I	F ⁺	10.427	10.428	10.430	10.432	10.433	10.435	10.437	10.438	10.440	10.442
1.527	I	F ⁺	-13.762	-13.787	-13.812	-13.837	-13.863	-13.889	-13.915	-13.942	-13.969	-13.996
	I	F ⁺	10.443	10.445	10.446	10.448	10.450	10.451	10.453	10.455	10.456	10.458
1.528	I	F ⁺	-14.024	-14.052	-14.080	-14.109	-14.138	-14.167	-14.197	-14.227	-14.258	-14.289
	I	F ⁺	10.460	10.461	10.463	10.465	10.466	10.468	10.470	10.471	10.473	10.475
1.529	I	F ⁺	-14.320	-14.352	-14.385	-14.417	-14.451	-14.485	-14.519	-14.554	-14.589	-14.626
	I	F ⁺	10.476	10.478	10.480	10.481	10.483	10.485	10.486	10.488	10.490	10.491
1.530	I	F ⁺	-14.662	-14.699	-14.737	-14.776	-14.815	-14.855	-14.896	-14.937	-14.979	-15.022
	I	F ⁺	10.493	10.495	10.497	10.498	10.500	10.502	10.503	10.505	10.507	10.508
1.531	I	F ⁺	-15.066	-15.110	-15.156	-15.203	-15.250	-15.299	-15.348	-15.399	-15.451	-15.504
	I	F ⁺	10.510	10.512	10.513	10.515	10.517	10.518	10.520	10.522	10.523	10.525
1.532	I	F ⁺	-15.558	-15.614	-15.671	-15.730	-15.790	-15.852	-15.916	-15.981	-16.049	-16.118
	I	F ⁺	10.527	10.528	10.530	10.532	10.534	10.535	10.537	10.539	10.540	10.542
1.533	I	F ⁺	-16.190	-16.264	-16.341	-16.420	-16.503	-16.588	-16.677	-16.770	-16.866	-16.967
	I	F ⁺	10.544	10.545	10.547	10.549	10.551	10.552	10.554	10.556	10.557	10.559
1.534	I	F ⁺	-17.073	-17.184	-17.301	-17.424	-17.554	-17.693	-17.840	-17.998	-18.168	-18.353
	I	F ⁺	10.561	10.562	10.564	10.566	10.568	10.569	10.571	10.573	10.574	10.576
1.535	I	F ⁺	-18.554	-18.774	-19.020	-19.295	-19.610	-19.977	-20.418	-20.968	-21.702	-22.809
	I	F ⁺	10.578	10.579	10.581	10.583	10.585	10.586	10.588	10.590	10.591	10.593
1.536	I	F ⁺	-25.136	-25.373	-25.669	-26.032	-26.480	-27.033	-27.702	-28.500	-29.440	-30.533
	I	F ⁺	10.595	3.686	3.687	3.687	3.687	3.688	3.688	3.689	3.689	3.689
1.537	I	F ⁺	-18.793	-18.574	-18.375	-18.193	-18.024	-17.868	-17.723	-17.586	-17.458	-17.337
	I	F ⁺	3.690	3.690	3.690	3.691	3.691	3.692	3.692	3.692	3.693	3.693
1.538	I	F ⁺	-17.222	-17.113	-17.010	-16.911	-16.816	-16.725	-16.638	-16.555	-16.474	-16.397
	I	F ⁺	3.694	3.694	3.694	3.695	3.695	3.695	3.696	3.696	3.697	3.697
1.539	I	F ⁺	-16.322	-16.249	-16.179	-16.111	-16.046	-15.982	-15.920	-15.860	-15.801	-15.744
	I	F ⁺	3.697	3.698	3.698	3.699	3.699	3.699	3.700	3.700	3.701	3.701
1.540	I	F ⁺	-15.689	-15.635	-15.582	-15.530	-15.480	-15.431	-15.383	-15.336	-15.290	-15.245
	I	F ⁺	3.701	3.702	3.702	3.703	3.703	3.703	3.704	3.704	3.704	3.705
1.541	I	F ⁺	-15.201	-15.157	-15.115	-15.074	-15.033	-14.993	-14.954	-14.915	-14.877	-14.840
	I	F ⁺	3.705	3.706	3.706	3.707	3.707	3.707	3.708	3.708	3.708	3.709
1.542	I	F ⁺	-14.804	-14.768	-14.732	-14.698	-14.663	-14.630	-14.597	-14.564	-14.532	-14.500
	I	F ⁺	3.709	3.709	3.710	3.710	3.711	3.711	3.711	3.712	3.712	3.713
1.543	I	F ⁺	-14.469	-14.438	-14.408	-14.378	-14.349	-14.320	-14.291	-14.263	-14.235	-14.207
	I	F ⁺	3.713	3.713	3.714	3.714	3.715	3.715	3.715	3.716	3.716	3.716
1.544	I	F ⁺	-14.180	-14.153	-14.127	-14.101	-14.075	-14.049	-14.024	-13.999	-13.974	-13.950
	I	F ⁺	3.717	3.717	3.718	3.718	3.719	3.719	3.719	3.720	3.720	3.720
1.545	I	F ⁺	-13.926	-13.902	-13.879	-13.855	-13.832	-13.810	-13.787	-13.765	-13.743	-13.721
	I	F ⁺	3.721	3.721	3.722	3.722	3.723	3.723	3.723	3.723	3.724	3.724
1.546	I	F ⁺	-13.699	-13.678	-13.657	-13.636	-13.615	-13.594	-13.574	-13.554	-13.534	-13.514
	I	F ⁺	3.725	3.725	3.725	3.726	3.726	3.727	3.727	3.727	3.728	3.728
1.547	I	F ⁺	-13.494	-13.475	-13.456	-13.437	-13.418	-13.399	-13.381	-13.362	-13.344	-13.326
	I	F ⁺	3.729	3.729	3.729	3.730	3.730	3.731	3.731	3.731	3.732	3.732
1.548	I	F ⁺	-13.308	-13.290	-13.272	-13.255	-13.238	-13.220	-13.203	-13.187	-13.170	-13.153
	I	F ⁺	3.732	3.733	3.733	3.733	3.734	3.734	3.735	3.735	3.736	3.736
1.549	I	F ⁺	-13.137	-13.120	-13.104	-13.088	-13.072	-13.056	-13.040	-13.024	-13.009	-12.993
	I	F ⁺	3.736	3.737	3.737	3.737	3.737	3.738	3.739	3.739	3.739	3.740

ATOMIC SYMBOL = ER ATOMIC NUMBER = 68 L₃ ABSORPTION EDGE (1.48350 Å; 8.3570 KEV)

I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.469	I F'	-12.604	-12.620	-12.635	-12.651	-12.666	-12.682	-12.698	-12.714	-12.731	-12.747
	I F''	10.319	10.320	10.322	10.324	10.326	10.327	10.329	10.331	10.333	10.335
1.470	I F'	-12.763	-12.780	-12.797	-12.813	-12.830	-12.848	-12.865	-12.882	-12.900	-12.917
	I F''	10.336	10.338	10.340	10.342	10.343	10.345	10.347	10.349	10.350	10.352
1.471	I F'	-12.935	-12.953	-12.971	-12.990	-13.008	-13.027	-13.045	-13.064	-13.083	-13.103
	I F''	10.354	10.356	10.358	10.359	10.361	10.363	10.365	10.366	10.368	10.370
1.472	I F'	-13.122	-13.142	-13.161	-13.181	-13.202	-13.222	-13.242	-13.263	-13.284	-13.305
	I F''	10.372	10.374	10.375	10.377	10.379	10.381	10.382	10.384	10.386	10.388
1.473	I F'	-13.326	-13.348	-13.370	-13.392	-13.414	-13.436	-13.459	-13.482	-13.505	-13.528
	I F''	10.390	10.391	10.393	10.395	10.397	10.399	10.400	10.402	10.404	10.406
1.474	I F'	-13.552	-13.576	-13.600	-13.625	-13.649	-13.674	-13.700	-13.725	-13.751	-13.777
	I F''	10.408	10.410	10.411	10.413	10.415	10.417	10.419	10.420	10.422	10.424
1.475	I F'	-13.804	-13.830	-13.858	-13.885	-13.913	-13.941	-13.970	-13.998	-14.028	-14.057
	I F''	10.426	10.428	10.429	10.431	10.433	10.435	10.437	10.439	10.440	10.442
1.476	I F'	-14.088	-14.118	-14.149	-14.180	-14.212	-14.244	-14.277	-14.310	-14.344	-14.378
	I F''	10.444	10.446	10.448	10.450	10.451	10.453	10.455	10.457	10.459	10.461
1.477	I F'	-14.413	-14.449	-14.484	-14.521	-14.558	-14.596	-14.634	-14.673	-14.713	-14.754
	I F''	10.463	10.464	10.466	10.468	10.470	10.472	10.474	10.475	10.477	10.479
1.478	I F'	-14.795	-14.837	-14.880	-14.923	-14.968	-15.013	-15.060	-15.107	-15.156	-15.205
	I F''	10.481	10.483	10.485	10.487	10.488	10.490	10.492	10.494	10.496	10.498
1.479	I F'	-15.256	-15.307	-15.360	-15.415	-15.470	-15.527	-15.586	-15.646	-15.708	-15.772
	I F''	10.500	10.502	10.503	10.505	10.507	10.509	10.511	10.513	10.515	10.517
1.480	I F'	-15.837	-15.904	-15.974	-16.046	-16.120	-16.196	-16.276	-16.358	-16.444	-16.533
	I F''	10.518	10.520	10.522	10.524	10.526	10.528	10.530	10.532	10.533	10.535
1.481	I F'	-16.625	-16.722	-16.823	-16.928	-17.039	-17.156	-17.280	-17.410	-17.549	-17.697
	I F''	10.537	10.539	10.541	10.543	10.545	10.547	10.549	10.551	10.552	10.554
1.482	I F'	-17.855	-18.026	-18.211	-18.413	-18.635	-18.882	-19.160	-19.478	-19.849	-20.296
	I F''	10.556	10.558	10.560	10.562	10.564	10.566	10.568	10.570	10.572	10.573
1.483	I F'	-20.857	-21.612	-22.770	-25.375	-24.780	-22.553	-21.475	-20.758	-20.219	-19.788
	I F''	10.575	10.577	10.579	10.581	3.704	3.704	3.704	3.705	3.705	3.706
1.484	I F'	-19.429	-19.120	-18.851	-18.611	-18.395	-18.198	-18.019	-17.852	-17.698	-17.554
	I F''	3.706	3.706	3.707	3.707	3.708	3.708	3.708	3.709	3.709	3.710
1.485	I F'	-17.419	-17.292	-17.172	-17.059	-16.951	-16.848	-16.750	-16.657	-16.567	-16.481
	I F''	3.710	3.710	3.711	3.711	3.712	3.712	3.712	3.713	3.713	3.714
1.486	I F'	-16.398	-16.318	-16.241	-16.167	-16.095	-16.025	-15.958	-15.893	-15.830	-15.768
	I F''	3.714	3.714	3.715	3.715	3.716	3.716	3.716	3.717	3.717	3.718
1.487	I F'	-15.709	-15.650	-15.594	-15.539	-15.485	-15.433	-15.382	-15.332	-15.283	-15.235
	I F''	3.718	3.718	3.719	3.719	3.720	3.720	3.721	3.721	3.721	3.722
1.488	I F'	-15.188	-15.143	-15.098	-15.054	-15.011	-14.969	-14.928	-14.888	-14.848	-14.809
	I F''	3.722	3.723	3.723	3.723	3.724	3.724	3.725	3.725	3.725	3.726
1.489	I F'	-14.771	-14.733	-14.696	-14.660	-14.625	-14.589	-14.555	-14.521	-14.488	-14.455
	I F''	3.726	3.727	3.727	3.727	3.728	3.728	3.729	3.729	3.729	3.730
1.490	I F'	-14.422	-14.390	-14.359	-14.328	-14.298	-14.267	-14.238	-14.209	-14.180	-14.151
	I F''	3.730	3.731	3.731	3.731	3.732	3.732	3.733	3.733	3.733	3.734
1.491	I F'	-14.123	-14.096	-14.068	-14.041	-14.015	-13.988	-13.962	-13.937	-13.911	-13.886
	I F''	3.734	3.735	3.735	3.735	3.736	3.736	3.737	3.737	3.738	3.738
1.492	I F'	-13.861	-13.837	-13.813	-13.789	-13.765	-13.742	-13.719	-13.696	-13.673	-13.651
	I F''	3.738	3.739	3.739	3.740	3.740	3.741	3.741	3.742	3.742	3.743
1.493	I F'	-13.629	-13.607	-13.585	-13.563	-13.542	-13.521	-13.500	-13.480	-13.459	-13.439
	I F''	3.742	3.743	3.743	3.744	3.744	3.744	3.745	3.745	3.746	3.746
1.494	I F'	-13.419	-13.399	-13.380	-13.360	-13.341	-13.322	-13.303	-13.284	-13.265	-13.247
	I F''	3.746	3.747	3.747	3.748	3.748	3.749	3.749	3.750	3.750	3.751
1.495	I F'	-13.229	-13.211	-13.193	-13.175	-13.157	-13.140	-13.122	-13.105	-13.088	-13.071
	I F''	3.750	3.751	3.751	3.752	3.752	3.753	3.753	3.753	3.754	3.754
1.496	I F'	-13.054	-13.038	-13.021	-13.005	-12.988	-12.972	-12.956	-12.940	-12.924	-12.909
	I F''	3.755	3.755	3.755	3.756	3.756	3.757	3.757	3.757	3.758	3.758

ATOMIC SYMBOL = TM ATOMIC NUMBER = 69 L₃ ABSORPTION EDGE (1.43340 Å; 8.6491 KEV)

I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.420	I F'	-12.601	-12.617	-12.633	-12.649	-12.665	-12.682	-12.698	-12.715	-12.731	-12.748
	I F''	10.243	10.245	10.247	10.250	10.252	10.254	10.256	10.259	10.261	10.263
1.421	I F'	-12.765	-12.783	-12.800	-12.817	-12.835	-12.853	-12.871	-12.889	-12.907	-12.926
	I F''	10.266	10.268	10.270	10.273	10.275	10.277	10.280	10.282	10.284	10.287
1.422	I F'	-12.944	-12.963	-12.982	-13.001	-13.020	-13.040	-13.060	-13.079	-13.100	-13.120
	I F''	10.289	10.291	10.294	10.296	10.298	10.301	10.303	10.305	10.308	10.310
1.423	I F'	-13.140	-13.161	-13.182	-13.203	-13.224	-13.246	-13.268	-13.290	-13.312	-13.334
	I F''	10.312	10.315	10.317	10.320	10.322	10.324	10.327	10.329	10.332	10.334
1.424	I F'	-13.357	-13.380	-13.403	-13.426	-13.450	-13.474	-13.498	-13.523	-13.548	-13.573
	I F''	10.336	10.339	10.341	10.344	10.346	10.348	10.351	10.353	10.356	10.358
1.425	I F'	-13.598	-13.624	-13.650	-13.677	-13.703	-13.730	-13.758	-13.785	-13.814	-13.842
	I F''	10.361	10.363	10.366	10.368	10.371	10.373	10.375	10.378	10.380	10.383
1.426	I F'	-13.871	-13.900	-13.930	-13.960	-13.990	-14.021	-14.053	-14.085	-14.117	-14.150
	I F''	10.385	10.388	10.390	10.393	10.395	10.398	10.400	10.403	10.405	10.408
1.427	I F'	-14.183	-14.217	-14.251	-14.286	-14.322	-14.358	-14.394	-14.432	-14.470	-14.508
	I F''	10.410	10.413	10.416	10.418	10.421	10.423	10.426	10.428	10.431	10.433
1.428	I F'	-14.547	-14.587	-14.628	-14.670	-14.712	-14.755	-14.799	-14.844	-14.890	-14.937
	I F''	10.436	10.438	10.441	10.444	10.446	10.449	10.451	10.454	10.457	10.459
1.429	I F'	-14.985	-15.034	-15.084	-15.135	-15.187	-15.241	-15.296	-15.352	-15.410	-15.470
	I F''	10.462	10.464	10.467	10.470	10.472	10.475	10.477	10.480	10.483	10.485
1.430	I F'	-15.531	-15.593	-15.658	-15.724	-15.793	-15.864	-15.937	-16.012	-16.091	-16.172
	I F''	10.488	10.491	10.493	10.496	10.498	10.501	10.504	10.506	10.509	10.512
1.431	I F'	-16.256	-16.333	-16.434	-16.529	-16.628	-16.732	-16.841	-16.955	-17.076	-17.203
	I F''	10.514	10.517	10.520	10.523	10.525	10.528	10.531	10.533	10.536	10.539
1.432	I F'	-17.339	-17.483	-17.637	-17.802	-17.981	-18.176	-18.389	-18.625	-18.889	-19.190
	I F''	10.541	10.544	10.547	10.550	10.552	10.555	10.558	10.561	10.563	10.566
1.433	I F'	-19.537	-19.949	-20.457	-21.118	-22.067	-23.775	-27.406	-23.039	-21.685	-20.858
	I F''	10.569	10.572	10.574	10.577	10.580	10.583	3.722	3.723	3.723	3.724
1.434	I F'	-20.261	-19.794	-19.410	-19.084	-18.801	-18.551	-18.327	-18.124	-17.938	-17.767
	I F''	3.724	3.724	3.725	3.725	3.726	3.726	3.727	3.727	3.727	3.728
1.435	I F'	-17.609	-17.462	-17.324	-17.195	-17.072	-16.957	-16.847	-16.743	-16.643	-16.548
	I F''	3.728	3.729	3.729	3.729	3.730	3.730	3.731	3.731	3.732	3.732
1.436	I F'	-16.457	-16.370	-16.286	-16.206	-16.128	-16.053	-15.981	-15.911	-15.843	-15.777
	I F''	3.732	3.733	3.733	3.734	3.734	3.734	3.735	3.735	3.736	3.736
1.437	I F'	-15.713	-15.651	-15.591	-15.533	-15.476	-15.420	-15.366	-15.314	-15.262	-15.212
	I F''	3.737	3.737	3.737	3.738	3.738	3.739	3.739	3.740	3.740	3.740
1.438	I F'	-15.163	-15.115	-15.068	-15.023	-14.978	-14.934	-14.891	-14.849	-14.807	-14.767
	I F''	3.741	3.741	3.742	3.742	3.743	3.743	3.743	3.744	3.744	3.745
1.439	I F'	-14.727	-14.688	-14.650	-14.612	-14.575	-14.539	-14.503	-14.468	-14.433	-14.399
	I F''	3.745	3.745	3.746	3.746	3.747	3.747	3.748	3.748	3.748	3.749
1.440	I F'	-14.366	-14.333	-14.301	-14.269	-14.237	-14.206	-14.176	-14.146	-14.116	-14.087
	I F''	3.749	3.750	3.750	3.750	3.751	3.751	3.752	3.752	3.753	3.753
1.441	I F'	-14.058	-14.029	-14.001	-13.974	-13.946	-13.919	-13.893	-13.866	-13.840	-13.815
	I F''	3.753	3.754	3.754	3.755	3.755	3.756	3.756	3.756	3.757	3.757
1.442	I F'	-13.789	-13.764	-13.740	-13.715	-13.691	-13.667	-13.643	-13.620	-13.597	-13.574
	I F''	3.758	3.758	3.758	3.759	3.759	3.760	3.760	3.761	3.761	3.761
1.443	I F'	-13.551	-13.529	-13.507	-13.485	-13.463	-13.442	-13.421	-13.400	-13.379	-13.358
	I F''	3.762	3.762	3.763	3.763	3.764	3.764	3.764	3.765	3.765	3.766
1.444	I F'	-13.338	-13.318	-13.298	-13.278	-13.258	-13.239	-13.220	-13.201	-13.182	-13.163
	I F''	3.766	3.767	3.767	3.767	3.768	3.768	3.769	3.769	3.769	3.770
1.445	I F'	-13.144	-13.126	-13.108	-13.090	-13.072	-13.054	-13.036	-13.019	-13.002	-12.984
	I F''	3.770	3.771	3.771	3.772	3.772	3.772	3.773	3.773	3.774	3.774
1.446	I F'	-12.967	-12.951	-12.934	-12.917	-12.901	-12.884	-12.868	-12.852	-12.836	-12.820
	I F''	3.775	3.775	3.775	3.776	3.776	3.777	3.777	3.777	3.778	3.778
1.447	I F'	-12.804	-12.789	-12.773	-12.758	-12.743	-12.727	-12.712	-12.697	-12.683	-12.668
	I F''	3.779	3.779	3.780	3.780	3.780	3.781	3.781	3.782	3.782	3.783

ATOMIC SYMBOL = YB ATOMIC NUMBER = 70 L₃ ABSORPTION EDGE (1.38620 Å; 8.9436 KEV)

I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.372	I	-12.367	-12.382	-12.398	-12.414	-12.430	-12.446	-12.462	-12.479	-12.495	-12.512
	F'	-10.310	-10.312	-10.313	-10.315	-10.317	-10.318	-10.320	-10.322	-10.323	-10.325
1.373	I	-12.528	-12.545	-12.562	-12.579	-12.596	-12.614	-12.631	-12.649	-12.666	-12.684
	F'	-10.327	-10.328	-10.330	-10.332	-10.333	-10.335	-10.337	-10.339	-10.340	-10.342
1.374	I	-12.702	-12.721	-12.739	-12.757	-12.776	-12.795	-12.814	-12.833	-12.852	-12.872
	F'	-10.344	-10.345	-10.347	-10.349	-10.350	-10.352	-10.354	-10.355	-10.357	-10.359
1.375	I	-12.892	-12.912	-12.932	-12.952	-12.972	-12.993	-13.014	-13.035	-13.056	-13.077
	F'	-10.361	-10.362	-10.364	-10.366	-10.367	-10.369	-10.371	-10.372	-10.374	-10.376
1.376	I	-13.099	-13.121	-13.143	-13.165	-13.187	-13.210	-13.233	-13.256	-13.280	-13.303
	F'	-10.378	-10.379	-10.381	-10.383	-10.384	-10.386	-10.388	-10.389	-10.391	-10.393
1.377	I	-13.327	-13.352	-13.376	-13.401	-13.426	-13.451	-13.477	-13.503	-13.529	-13.555
	F'	-10.395	-10.396	-10.398	-10.400	-10.401	-10.403	-10.405	-10.407	-10.408	-10.410
1.378	I	-13.582	-13.609	-13.637	-13.665	-13.693	-13.721	-13.750	-13.780	-13.809	-13.840
	F'	-10.412	-10.413	-10.415	-10.417	-10.418	-10.420	-10.422	-10.424	-10.425	-10.427
1.379	I	-13.870	-13.901	-13.932	-13.964	-13.997	-14.029	-14.063	-14.096	-14.131	-14.166
	F'	-10.429	-10.430	-10.432	-10.434	-10.436	-10.437	-10.439	-10.441	-10.442	-10.444
1.380	I	-14.201	-14.237	-14.273	-14.311	-14.348	-14.387	-14.426	-14.466	-14.506	-14.548
	F'	-10.446	-10.448	-10.449	-10.451	-10.453	-10.454	-10.456	-10.458	-10.460	-10.461
1.381	I	-14.590	-14.633	-14.676	-14.721	-14.766	-14.813	-14.860	-14.909	-14.958	-15.009
	F'	-10.463	-10.465	-10.466	-10.468	-10.470	-10.472	-10.473	-10.475	-10.477	-10.479
1.382	I	-15.061	-15.114	-15.169	-15.224	-15.282	-15.340	-15.401	-15.463	-15.527	-15.592
	F'	-10.480	-10.482	-10.484	-10.485	-10.487	-10.489	-10.491	-10.492	-10.494	-10.496
1.383	I	-15.660	-15.730	-15.802	-15.876	-15.954	-16.033	-16.116	-16.202	-16.292	-16.385
	F'	-10.497	-10.499	-10.501	-10.503	-10.504	-10.506	-10.508	-10.510	-10.511	-10.513
1.384	I	-16.483	-16.585	-16.692	-16.804	-16.923	-17.048	-17.180	-17.321	-17.472	-17.634
	F'	-10.515	-10.517	-10.518	-10.520	-10.522	-10.523	-10.525	-10.527	-10.529	-10.530
1.385	I	-17.809	-17.999	-18.206	-18.436	-18.692	-18.983	-19.318	-19.713	-20.197	-20.818
	F'	-10.532	-10.534	-10.536	-10.537	-10.539	-10.541	-10.542	-10.544	-10.546	-10.548
1.386	I	-21.692	-23.173	-31.362	-23.240	-21.717	-20.833	-20.209	-19.725	-19.330	-18.997
	F'	-10.549	-10.551	-10.553	-10.553	-10.553	-10.553	-10.553	-10.553	-10.553	-10.553
1.387	I	-18.708	-18.454	-18.227	-18.021	-17.834	-17.662	-17.502	-17.354	-17.215	-17.085
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.388	I	-16.962	-16.846	-16.736	-16.631	-16.531	-16.436	-16.345	-16.257	-16.173	-16.093
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.389	I	-16.015	-15.940	-15.867	-15.797	-15.729	-15.664	-15.600	-15.538	-15.478	-15.419
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.390	I	-15.363	-15.307	-15.253	-15.201	-15.149	-15.099	-15.050	-15.002	-14.956	-14.910
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.391	I	-14.865	-14.821	-14.778	-14.736	-14.695	-14.655	-14.615	-14.576	-14.538	-14.500
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.392	I	-14.463	-14.427	-14.391	-14.356	-14.322	-14.288	-14.255	-14.222	-14.190	-14.158
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.393	I	-14.126	-14.096	-14.065	-14.035	-14.005	-13.976	-13.948	-13.919	-13.891	-13.864
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.394	I	-13.836	-13.809	-13.783	-13.757	-13.731	-13.705	-13.680	-13.655	-13.630	-13.606
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.395	I	-13.582	-13.558	-13.534	-13.511	-13.488	-13.465	-13.443	-13.421	-13.399	-13.377
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.396	I	-13.355	-13.334	-13.313	-13.292	-13.271	-13.251	-13.230	-13.210	-13.190	-13.171
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.397	I	-13.151	-13.132	-13.112	-13.093	-13.075	-13.056	-13.037	-13.019	-13.001	-12.983
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.398	I	-12.965	-12.947	-12.930	-12.913	-12.895	-12.878	-12.861	-12.844	-12.828	-12.811
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571
1.399	I	-12.795	-12.778	-12.762	-12.746	-12.730	-12.715	-12.699	-12.683	-12.668	-12.653
	F'	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571	-10.571

ATOMIC SYMBOL = LU ATOMIC NUMBER = 71 L₃ ABSORPTION EDGE (1.34050 Å; 9.2485 KEV)

I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009	
1.327	I	F'	-12.233	-12.249	-12.265	-12.281	-12.297	-12.313	-12.329	-12.345	-12.362	-12.379
	I	F''	-10.296	-10.297	-10.299	-10.301	-10.303	-10.305	-10.306	-10.308	-10.310	-10.312
1.328	I	F'	-12.395	-12.412	-12.429	-12.446	-12.464	-12.481	-12.499	-12.516	-12.534	-12.552
	I	F''	-10.313	-10.315	-10.317	-10.319	-10.321	-10.322	-10.324	-10.326	-10.328	-10.330
1.329	I	F'	-12.570	-12.589	-12.607	-12.626	-12.644	-12.663	-12.682	-12.702	-12.721	-12.741
	I	F''	-10.331	-10.333	-10.335	-10.337	-10.339	-10.340	-10.342	-10.344	-10.346	-10.347
1.330	I	F'	-12.760	-12.780	-12.801	-12.821	-12.841	-12.862	-12.883	-12.904	-12.925	-12.947
	I	F''	-10.349	-10.351	-10.353	-10.355	-10.356	-10.358	-10.360	-10.362	-10.364	-10.365
1.331	I	F'	-12.969	-12.991	-13.013	-13.035	-13.058	-13.081	-13.104	-13.127	-13.151	-13.174
	I	F''	-10.367	-10.369	-10.371	-10.373	-10.374	-10.376	-10.378	-10.380	-10.382	-10.383
1.332	I	F'	-13.198	-13.223	-13.247	-13.272	-13.298	-13.323	-13.349	-13.375	-13.401	-13.428
	I	F''	-10.385	-10.387	-10.389	-10.391	-10.392	-10.394	-10.396	-10.398	-10.400	-10.401
1.333	I	F'	-13.455	-13.482	-13.510	-13.538	-13.567	-13.595	-13.624	-13.654	-13.684	-13.714
	I	F''	-10.403	-10.405	-10.407	-10.409	-10.410	-10.412	-10.414	-10.416	-10.418	-10.419
1.334	I	F'	-13.745	-13.776	-13.808	-13.840	-13.873	-13.906	-13.939	-13.973	-14.008	-14.043
	I	F''	-10.421	-10.423	-10.425	-10.427	-10.429	-10.430	-10.432	-10.434	-10.436	-10.438
1.335	I	F'	-14.079	-14.115	-14.152	-14.189	-14.228	-14.266	-14.306	-14.346	-14.387	-14.429
	I	F''	-10.439	-10.441	-10.443	-10.445	-10.447	-10.448	-10.450	-10.452	-10.454	-10.456
1.336	I	F'	-14.471	-14.515	-14.559	-14.604	-14.650	-14.697	-14.745	-14.794	-14.845	-14.896
	I	F''	-10.458	-10.459	-10.461	-10.463	-10.465	-10.467	-10.468	-10.470	-10.472	-10.474
1.337	I	F'	-14.949	-15.002	-15.058	-15.114	-15.172	-15.232	-15.293	-15.356	-15.421	-15.488
	I	F''	-10.476	-10.478	-10.479	-10.481	-10.483	-10.485	-10.487	-10.489	-10.490	-10.492
1.338	I	F'	-15.557	-15.628	-15.702	-15.778	-15.856	-15.938	-16.023	-16.111	-16.203	-16.298
	I	F''	-10.494	-10.496	-10.498	-10.500	-10.501	-10.503	-10.505	-10.507	-10.509	-10.510
1.339	I	F'	-16.398	-16.503	-16.613	-16.729	-16.851	-16.981	-17.118	-17.265	-17.422	-17.591
	I	F''	-10.512	-10.514	-10.516	-10.518	-10.520	-10.521	-10.523	-10.525	-10.527	-10.529
1.340	I	F'	-17.775	-17.975	-18.195	-18.440	-18.714	-19.032	-19.401	-19.846	-20.405	-21.159
	I	F''	-10.531	-10.532	-10.534	-10.536	-10.538	-10.540	-10.542	-10.543	-10.545	-10.547
1.341	I	F'	-22.323	-25.009	-24.158	-22.027	-20.977	-20.275	-19.746	-19.323	-18.969	-18.666
	I	F''	-10.549	-10.551	-10.553	-10.555	-10.557	-10.559	-10.561	-10.563	-10.565	-10.567
1.342	I	F'	-18.400	-18.163	-17.951	-17.757	-17.580	-17.416	-17.264	-17.122	-16.989	-16.864
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.343	I	F'	-16.746	-16.634	-16.527	-16.426	-16.329	-16.237	-16.148	-16.063	-15.982	-15.903
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.344	I	F'	-15.827	-15.754	-15.683	-15.615	-15.548	-15.484	-15.422	-15.361	-15.302	-15.245
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.345	I	F'	-15.189	-15.135	-15.082	-15.030	-14.980	-14.931	-14.882	-14.835	-14.789	-14.745
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.346	I	F'	-14.700	-14.657	-14.615	-14.574	-14.533	-14.493	-14.454	-14.416	-14.378	-14.341
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.347	I	F'	-14.305	-14.269	-14.234	-14.199	-14.165	-14.132	-14.099	-14.067	-14.035	-14.003
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.348	I	F'	-13.973	-13.942	-13.912	-13.882	-13.853	-13.824	-13.796	-13.768	-13.740	-13.713
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.349	I	F'	-13.686	-13.660	-13.633	-13.608	-13.582	-13.557	-13.532	-13.507	-13.483	-13.459
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.350	I	F'	-13.435	-13.411	-13.388	-13.365	-13.342	-13.320	-13.298	-13.276	-13.254	-13.232
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.351	I	F'	-13.211	-13.190	-13.169	-13.148	-13.128	-13.107	-13.087	-13.067	-13.048	-13.028
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.352	I	F'	-13.009	-12.990	-12.971	-12.952	-12.933	-12.915	-12.897	-12.879	-12.861	-12.843
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.353	I	F'	-12.825	-12.808	-12.790	-12.773	-12.756	-12.739	-12.722	-12.706	-12.689	-12.673
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589
1.354	I	F'	-12.657	-12.641	-12.625	-12.609	-12.593	-12.577	-12.562	-12.546	-12.531	-12.516
	I	F''	-10.571	-10.573	-10.575	-10.577	-10.579	-10.581	-10.583	-10.585	-10.587	-10.589

ATOMIC SYMBOL = HF		ATOMIC NUMBER = 72		L ₃ ABSORPTION EDGE (1.29726 Å; 9.5572 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.283	I F'	-12.194	-12.210	-12.226	-12.242	-12.259	-12.275	-12.292	-12.309	-12.326	-12.343
	I F"	10.275	10.276	10.278	10.280	10.282	10.284	10.286	10.287	10.289	10.291
1.284	I F'	-12.360	-12.377	-12.395	-12.412	-12.430	-12.448	-12.466	-12.484	-12.503	-12.521
	I F"	10.293	10.295	10.296	10.298	10.300	10.302	10.304	10.306	10.307	10.309
1.285	I F'	-12.540	-12.559	-12.578	-12.597	-12.616	-12.636	-12.655	-12.675	-12.695	-12.716
	I F"	10.311	10.313	10.315	10.317	10.318	10.320	10.322	10.324	10.326	10.327
1.286	I F'	-12.736	-12.757	-12.777	-12.798	-12.820	-12.841	-12.863	-12.885	-12.907	-12.929
	I F"	10.329	10.331	10.333	10.335	10.337	10.338	10.340	10.342	10.344	10.346
1.287	I F'	-12.951	-12.974	-12.997	-13.020	-13.044	-13.068	-13.092	-13.116	-13.140	-13.165
	I F"	10.348	10.349	10.351	10.353	10.355	10.357	10.359	10.360	10.362	10.364
1.288	I F'	-13.190	-13.216	-13.241	-13.267	-13.294	-13.320	-13.347	-13.374	-13.402	-13.430
	I F"	10.366	10.368	10.370	10.371	10.373	10.375	10.377	10.379	10.381	10.382
1.289	I F'	-13.458	-13.487	-13.516	-13.545	-13.575	-13.606	-13.636	-13.667	-13.699	-13.731
	I F"	10.384	10.386	10.388	10.390	10.392	10.394	10.395	10.397	10.399	10.401
1.290	I F'	-13.763	-13.796	-13.830	-13.864	-13.898	-13.933	-13.969	-14.005	-14.042	-14.079
	I F"	10.403	10.405	10.406	10.408	10.410	10.412	10.414	10.416	10.418	10.419
1.291	I F'	-14.117	-14.156	-14.195	-14.235	-14.276	-14.318	-14.360	-14.403	-14.447	-14.492
	I F"	10.421	10.423	10.425	10.427	10.429	10.430	10.432	10.434	10.436	10.438
1.292	I F'	-14.538	-14.585	-14.633	-14.682	-14.732	-14.783	-14.836	-14.890	-14.945	-15.001
	I F"	10.440	10.442	10.443	10.445	10.447	10.449	10.451	10.453	10.455	10.456
1.293	I F'	-15.059	-15.119	-15.180	-15.243	-15.307	-15.374	-15.443	-15.514	-15.587	-15.663
	I F"	10.458	10.460	10.462	10.464	10.466	10.468	10.469	10.471	10.473	10.475
1.294	I F'	-15.742	-15.823	-15.908	-15.996	-16.088	-16.183	-16.283	-16.388	-16.498	-16.614
	I F"	10.477	10.479	10.481	10.482	10.484	10.486	10.488	10.490	10.492	10.494
1.295	I F'	-16.736	-16.866	-17.004	-17.151	-17.308	-17.478	-17.662	-17.863	-18.085	-18.332
	I F"	10.496	10.497	10.499	10.501	10.503	10.505	10.507	10.509	10.510	10.512
1.296	I F'	-18.610	-18.829	-19.304	-19.756	-20.329	-21.111	-22.347	-25.548	-23.606	-21.719
	I F"	10.514	10.516	10.518	10.520	10.522	10.524	10.525	10.527	3.767	3.767
1.297	I F'	-20.732	-20.059	-19.549	-19.137	-18.792	-18.495	-18.235	-18.003	-17.794	-17.603
	I F"	3.768	3.768	3.769	3.769	3.770	3.770	3.771	3.771	3.772	3.772
1.298	I F'	-17.429	-17.267	-17.117	-16.977	-16.846	-16.722	-16.606	-16.495	-16.390	-16.290
	I F"	3.773	3.773	3.774	3.774	3.775	3.775	3.776	3.776	3.777	3.777
1.299	I F'	-16.194	-16.103	-16.015	-15.931	-15.850	-15.772	-15.697	-15.625	-15.555	-15.487
	I F"	3.777	3.778	3.778	3.779	3.779	3.780	3.780	3.781	3.781	3.782
1.300	I F'	-15.421	-15.358	-15.296	-15.236	-15.177	-15.121	-15.065	-15.012	-14.959	-14.908
	I F"	3.781	3.783	3.783	3.784	3.784	3.785	3.785	3.786	3.786	3.786
1.301	I F'	-14.858	-14.809	-14.762	-14.715	-14.669	-14.625	-14.581	-14.538	-14.497	-14.456
	I F"	3.787	3.787	3.788	3.788	3.789	3.789	3.790	3.790	3.791	3.791
1.302	I F'	-14.415	-14.376	-14.337	-14.299	-14.262	-14.225	-14.189	-14.153	-14.119	-14.084
	I F"	3.792	3.792	3.793	3.793	3.794	3.794	3.795	3.795	3.796	3.796
1.303	I F'	-14.051	-14.018	-13.985	-13.953	-13.921	-13.890	-13.859	-13.829	-13.799	-13.770
	I F"	3.796	3.797	3.797	3.798	3.798	3.799	3.799	3.800	3.800	3.801
1.304	I F'	-13.741	-13.712	-13.684	-13.657	-13.629	-13.602	-13.575	-13.549	-13.523	-13.497
	I F"	3.801	3.802	3.802	3.803	3.803	3.804	3.804	3.805	3.805	3.805
1.305	I F'	-13.472	-13.447	-13.422	-13.398	-13.374	-13.350	-13.326	-13.303	-13.280	-13.257
	I F"	3.806	3.806	3.807	3.807	3.808	3.808	3.809	3.809	3.810	3.810
1.306	I F'	-13.234	-13.212	-13.190	-13.168	-13.146	-13.125	-13.104	-13.083	-13.062	-13.042
	I F"	3.811	3.811	3.812	3.812	3.813	3.813	3.814	3.814	3.815	3.815
1.307	I F'	-13.021	-13.001	-12.981	-12.961	-12.942	-12.923	-12.903	-12.884	-12.864	-12.847
	I F"	3.816	3.816	3.816	3.817	3.817	3.818	3.818	3.819	3.819	3.820
1.308	I F'	-12.829	-12.810	-12.792	-12.774	-12.756	-12.739	-12.721	-12.704	-12.686	-12.669
	I F"	3.820	3.821	3.821	3.822	3.822	3.823	3.823	3.824	3.824	3.825
1.309	I F'	-12.652	-12.636	-12.619	-12.603	-12.586	-12.570	-12.554	-12.538	-12.522	-12.506
	I F"	3.825	3.826	3.826	3.826	3.827	3.827	3.828	3.828	3.829	3.829
1.310	I F'	-12.491	-12.475	-12.460	-12.444	-12.429	-12.414	-12.399	-12.384	-12.370	-12.355
	I F"	3.830	3.830	3.831	3.831	3.832	3.832	3.833	3.833	3.834	3.834

ATOMIC SYMBOL = TA		ATOMIC NUMBER = 73		L ₃ ABSORPTION EDGE (1.25530 Å; 9.8762 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.241	I F'	-12.065	-12.081	-12.097	-12.113	-12.130	-12.146	-12.163	-12.180	-12.197	-12.214
	I F''	10.250	10.252	10.254	10.256	10.258	10.259	10.261	10.263	10.265	10.267
1.242	I F'	-12.231	-12.248	-12.266	-12.284	-12.301	-12.319	-12.337	-12.356	-12.374	-12.392
	I F''	10.269	10.271	10.273	10.275	10.276	10.278	10.280	10.282	10.284	10.286
1.243	I F'	-12.411	-12.430	-12.449	-12.468	-12.488	-12.507	-12.527	-12.547	-12.567	-12.587
	I F''	10.288	10.290	10.292	10.293	10.295	10.297	10.299	10.301	10.303	10.305
1.244	I F'	-12.607	-12.628	-12.649	-12.670	-12.691	-12.713	-12.734	-12.756	-12.778	-12.800
	I F''	10.307	10.309	10.310	10.312	10.314	10.316	10.318	10.320	10.322	10.324
1.245	I F'	-12.823	-12.846	-12.869	-12.892	-12.916	-12.939	-12.963	-12.988	-13.012	-13.037
	I F''	10.326	10.328	10.329	10.331	10.333	10.335	10.337	10.339	10.341	10.343
1.246	I F'	-13.062	-13.088	-13.113	-13.139	-13.166	-13.192	-13.219	-13.247	-13.274	-13.302
	I F''	10.345	10.347	10.348	10.350	10.352	10.354	10.356	10.358	10.360	10.362
1.247	I F'	-13.331	-13.359	-13.389	-13.418	-13.448	-13.478	-13.509	-13.540	-13.572	-13.604
	I F''	10.364	10.366	10.368	10.369	10.371	10.373	10.375	10.377	10.379	10.381
1.248	I F'	-13.636	-13.669	-13.703	-13.737	-13.772	-13.807	-13.843	-13.879	-13.916	-13.953
	I F''	10.383	10.385	10.387	10.389	10.390	10.392	10.394	10.396	10.398	10.400
1.249	I F'	-13.992	-14.030	-14.070	-14.110	-14.151	-14.193	-14.236	-14.279	-14.323	-14.369
	I F''	10.402	10.404	10.406	10.408	10.410	10.412	10.413	10.415	10.417	10.419
1.250	I F'	-14.415	-14.462	-14.510	-14.560	-14.610	-14.662	-14.714	-14.769	-14.824	-14.881
	I F''	10.421	10.423	10.425	10.427	10.429	10.431	10.433	10.435	10.437	10.439
1.251	I F'	-14.939	-14.999	-15.061	-15.125	-15.190	-15.257	-15.327	-15.399	-15.473	-15.550
	I F''	10.440	10.442	10.444	10.446	10.448	10.450	10.452	10.454	10.456	10.458
1.252	I F'	-15.629	-15.712	-15.798	-15.887	-15.980	-16.078	-16.179	-16.286	-16.398	-16.517
	I F''	10.460	10.462	10.464	10.466	10.467	10.469	10.471	10.473	10.475	10.477
1.253	I F'	-16.642	-16.775	-16.916	-17.067	-17.230	-17.405	-17.596	-17.805	-18.037	-18.297
	I F''	10.479	10.481	10.483	10.485	10.487	10.489	10.491	10.493	10.495	10.497
1.254	I F'	-18.591	-18.933	-19.339	-19.839	-20.491	-21.431	-23.139	-26.352	-22.332	-21.023
	I F''	10.498	10.500	10.502	10.504	10.506	10.508	10.510	3.783	3.783	3.784
1.255	I F'	-20.218	-19.636	-19.179	-18.804	-18.485	-18.208	-17.963	-17.744	-17.545	-17.363
	I F''	3.784	3.785	3.785	3.786	3.786	3.787	3.787	3.788	3.788	3.789
1.256	I F'	-17.196	-17.041	-16.897	-16.762	-16.635	-16.515	-16.402	-16.294	-16.192	-16.095
	I F''	3.789	3.790	3.790	3.791	3.791	3.792	3.792	3.793	3.793	3.794
1.257	I F'	-16.002	-15.913	-15.827	-15.745	-15.666	-15.590	-15.517	-15.446	-15.377	-15.311
	I F''	3.794	3.795	3.795	3.796	3.796	3.797	3.797	3.798	3.798	3.799
1.258	I F'	-15.246	-15.184	-15.123	-15.064	-15.007	-14.952	-14.897	-14.844	-14.793	-14.743
	I F''	3.799	3.800	3.800	3.801	3.801	3.802	3.802	3.803	3.803	3.804
1.259	I F'	-14.693	-14.645	-14.599	-14.553	-14.508	-14.464	-14.421	-14.379	-14.338	-14.297
	I F''	3.804	3.805	3.805	3.806	3.806	3.807	3.807	3.808	3.808	3.809
1.260	I F'	-14.258	-14.219	-14.181	-14.143	-14.106	-14.070	-14.035	-14.000	-13.965	-13.932
	I F''	3.809	3.810	3.810	3.811	3.811	3.812	3.812	3.813	3.813	3.814
1.261	I F'	-13.898	-13.866	-13.833	-13.802	-13.770	-13.740	-13.709	-13.680	-13.650	-13.621
	I F''	3.814	3.815	3.815	3.816	3.816	3.817	3.817	3.818	3.818	3.819
1.262	I F'	-13.593	-13.564	-13.537	-13.509	-13.482	-13.455	-13.429	-13.403	-13.377	-13.352
	I F''	3.819	3.820	3.820	3.821	3.821	3.822	3.822	3.823	3.823	3.824
1.263	I F'	-13.327	-13.302	-13.278	-13.254	-13.230	-13.206	-13.183	-13.160	-13.137	-13.114
	I F''	3.824	3.825	3.825	3.826	3.826	3.826	3.827	3.827	3.828	3.828
1.264	I F'	-13.092	-13.070	-13.048	-13.026	-13.005	-12.984	-12.963	-12.942	-12.922	-12.902
	I F''	3.829	3.829	3.830	3.830	3.831	3.831	3.832	3.832	3.833	3.833
1.265	I F'	-12.881	-12.862	-12.842	-12.822	-12.803	-12.784	-12.765	-12.746	-12.727	-12.709
	I F''	3.834	3.834	3.835	3.835	3.836	3.836	3.837	3.837	3.838	3.838
1.266	I F'	-12.691	-12.673	-12.655	-12.637	-12.619	-12.602	-12.585	-12.567	-12.550	-12.533
	I F''	3.839	3.839	3.840	3.840	3.841	3.841	3.842	3.842	3.843	3.843
1.267	I F'	-12.517	-12.500	-12.484	-12.467	-12.451	-12.435	-12.419	-12.403	-12.387	-12.372
	I F''	3.844	3.844	3.845	3.845	3.846	3.846	3.847	3.847	3.848	3.848
1.268	I F'	-12.356	-12.341	-12.326	-12.311	-12.296	-12.281	-12.266	-12.251	-12.237	-12.222
	I F''	3.849	3.849	3.850	3.850	3.851	3.851	3.852	3.852	3.853	3.853

ATOMIC SYMBOL = W ATOMIC NUMBER = 74 L₃ ABSORPTION EDGE (1.21550 Å; 10.1996 KEV)

I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.201	I	-11.946	-11.962	-11.978	-11.995	-12.011	-12.027	-12.044	-12.061	-12.078	-12.095
	F	10.228	10.230	10.232	10.234	10.235	10.237	10.239	10.241	10.243	10.245
1.202	I	-12.112	-12.129	-12.147	-12.164	-12.182	-12.200	-12.218	-12.236	-12.255	-12.273
	F	10.247	10.249	10.251	10.253	10.255	10.257	10.259	10.260	10.262	10.264
1.203	I	-12.292	-12.311	-12.330	-12.349	-12.368	-12.388	-12.407	-12.427	-12.447	-12.467
	F	10.266	10.268	10.270	10.272	10.274	10.276	10.278	10.280	10.282	10.284
1.204	I	-12.488	-12.508	-12.529	-12.550	-12.572	-12.593	-12.615	-12.636	-12.659	-12.681
	F	10.286	10.288	10.290	10.291	10.293	10.295	10.297	10.299	10.301	10.303
1.205	I	-12.703	-12.726	-12.749	-12.772	-12.796	-12.820	-12.844	-12.868	-12.893	-12.917
	F	10.305	10.307	10.309	10.311	10.313	10.315	10.317	10.319	10.321	10.323
1.206	I	-12.942	-12.968	-12.994	-13.020	-13.046	-13.073	-13.100	-13.127	-13.155	-13.183
	F	10.324	10.326	10.328	10.330	10.332	10.334	10.336	10.338	10.340	10.342
1.207	I	-13.211	-13.240	-13.269	-13.298	-13.328	-13.359	-13.389	-13.421	-13.452	-13.484
	F	10.344	10.346	10.348	10.350	10.352	10.354	10.356	10.358	10.360	10.362
1.208	I	-13.517	-13.550	-13.584	-13.618	-13.652	-13.688	-13.723	-13.760	-13.797	-13.834
	F	10.363	10.365	10.367	10.369	10.371	10.373	10.375	10.377	10.379	10.381
1.209	I	-13.873	-13.912	-13.951	-13.992	-14.033	-14.075	-14.117	-14.161	-14.205	-14.251
	F	10.383	10.385	10.387	10.389	10.391	10.393	10.395	10.397	10.399	10.401
1.210	I	-14.297	-14.344	-14.393	-14.442	-14.493	-14.545	-14.598	-14.652	-14.708	-14.765
	F	10.403	10.405	10.407	10.409	10.411	10.413	10.415	10.416	10.418	10.420
1.211	I	-14.824	-14.884	-14.946	-15.010	-15.076	-15.144	-15.214	-15.286	-15.361	-15.439
	F	10.422	10.424	10.426	10.428	10.430	10.432	10.434	10.436	10.438	10.440
1.212	I	-15.519	-15.602	-15.689	-15.779	-15.873	-15.972	-16.075	-16.183	-16.297	-16.417
	F	10.442	10.444	10.446	10.448	10.450	10.452	10.454	10.456	10.458	10.460
1.213	I	-16.544	-16.680	-16.824	-16.978	-17.144	-17.324	-17.521	-17.737	-17.977	-18.247
	F	10.462	10.464	10.466	10.468	10.470	10.472	10.474	10.476	10.478	10.480
1.214	I	-18.556	-18.917	-19.351	-19.895	-20.627	-21.747	-24.241	-23.779	-21.580	-20.524
	F	10.482	10.484	10.486	10.488	10.490	10.492	10.494	3.800	3.801	3.801
1.215	I	-19.822	-19.297	-18.764	-18.226	-17.685	-17.129	-17.519	-17.328	-17.153	-16.999
	F	3.802	3.802	3.803	3.803	3.804	3.804	3.805	3.805	3.806	3.806
1.216	I	-16.991	-16.841	-16.701	-16.570	-16.446	-16.330	-16.219	-16.115	-16.015	-15.920
	F	3.807	3.807	3.808	3.808	3.809	3.809	3.810	3.810	3.811	3.811
1.217	I	-15.828	-15.741	-15.657	-15.577	-15.500	-15.425	-15.353	-15.283	-15.216	-15.150
	F	3.812	3.812	3.813	3.813	3.814	3.814	3.815	3.815	3.816	3.816
1.218	I	-15.087	-15.026	-14.966	-14.908	-14.852	-14.797	-14.744	-14.692	-14.641	-14.591
	F	3.817	3.817	3.818	3.819	3.819	3.820	3.820	3.821	3.821	3.822
1.219	I	-14.543	-14.496	-14.449	-14.404	-14.360	-14.317	-14.274	-14.233	-14.192	-14.152
	F	3.822	3.823	3.823	3.824	3.824	3.825	3.825	3.826	3.826	3.827
1.220	I	-14.113	-14.075	-14.037	-14.000	-13.963	-13.928	-13.893	-13.858	-13.824	-13.791
	F	3.827	3.828	3.828	3.829	3.829	3.830	3.830	3.831	3.831	3.832
1.221	I	-13.758	-13.726	-13.694	-13.662	-13.632	-13.601	-13.571	-13.542	-13.513	-13.484
	F	3.832	3.833	3.833	3.834	3.834	3.835	3.835	3.836	3.836	3.837
1.222	I	-13.456	-13.428	-13.400	-13.373	-13.347	-13.320	-13.294	-13.268	-13.243	-13.218
	F	3.838	3.838	3.839	3.839	3.840	3.840	3.841	3.841	3.842	3.842
1.223	I	-13.193	-13.168	-13.144	-13.120	-13.097	-13.073	-13.050	-13.027	-13.005	-12.982
	F	3.843	3.843	3.844	3.844	3.845	3.845	3.846	3.846	3.847	3.847
1.224	I	-12.960	-12.939	-12.917	-12.896	-12.874	-12.853	-12.833	-12.812	-12.792	-12.772
	F	3.848	3.848	3.849	3.849	3.850	3.850	3.851	3.851	3.852	3.852
1.225	I	-12.752	-12.732	-12.713	-12.693	-12.674	-12.655	-12.637	-12.618	-12.600	-12.581
	F	3.853	3.853	3.854	3.854	3.855	3.855	3.856	3.857	3.857	3.858
1.226	I	-12.563	-12.545	-12.527	-12.510	-12.492	-12.475	-12.458	-12.441	-12.424	-12.407
	F	3.858	3.859	3.859	3.860	3.860	3.861	3.861	3.862	3.862	3.863
1.227	I	-12.391	-12.374	-12.358	-12.342	-12.326	-12.310	-12.294	-12.278	-12.263	-12.247
	F	3.863	3.864	3.864	3.865	3.865	3.866	3.866	3.867	3.867	3.868
1.228	I	-12.232	-12.217	-12.202	-12.187	-12.172	-12.157	-12.142	-12.128	-12.113	-12.099
	F	3.868	3.869	3.869	3.870	3.870	3.871	3.871	3.872	3.872	3.873

ATOMIC SYMBOL = RE ATOMIC NUMBER = 75 L₃ ABSORPTION EDGE (1.17730 Å; 10.5306 KEV)

I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.163	I	-11.863	-11.878	-11.894	-11.909	-11.924	-11.940	-11.956	-11.971	-11.987	-12.003
	F	10.021	10.022	10.024	10.025	10.027	10.028	10.030	10.031	10.033	10.034
1.164	I	-12.019	-12.036	-12.052	-12.069	-12.085	-12.102	-12.119	-12.136	-12.153	-12.171
	F	10.036	10.037	10.039	10.040	10.042	10.043	10.044	10.046	10.047	10.049
1.165	I	-12.188	-12.206	-12.224	-12.242	-12.260	-12.278	-12.297	-12.315	-12.334	-12.353
	F	10.050	10.052	10.053	10.055	10.056	10.058	10.059	10.061	10.062	10.064
1.166	I	-12.372	-12.391	-12.411	-12.431	-12.451	-12.471	-12.491	-12.511	-12.532	-12.553
	F	10.065	10.067	10.068	10.069	10.071	10.072	10.074	10.075	10.077	10.078
1.167	I	-12.574	-12.595	-12.617	-12.639	-12.661	-12.683	-12.705	-12.728	-12.751	-12.774
	F	10.080	10.081	10.083	10.084	10.086	10.087	10.089	10.090	10.092	10.093
1.168	I	-12.798	-12.822	-12.846	-12.870	-12.895	-12.919	-12.945	-12.970	-12.996	-13.022
	F	10.094	10.096	10.097	10.099	10.100	10.102	10.103	10.105	10.106	10.108
1.169	I	-13.049	-13.076	-13.103	-13.130	-13.158	-13.187	-13.215	-13.244	-13.274	-13.304
	F	10.109	10.111	10.112	10.114	10.115	10.117	10.118	10.120	10.121	10.122
1.170	I	-13.334	-13.365	-13.396	-13.428	-13.460	-13.493	-13.526	-13.560	-13.594	-13.629
	F	10.124	10.125	10.127	10.128	10.130	10.131	10.133	10.134	10.136	10.137
1.171	I	-13.665	-13.701	-13.738	-13.776	-13.814	-13.853	-13.892	-13.933	-13.974	-14.016
	F	10.139	10.140	10.142	10.143	10.145	10.146	10.148	10.149	10.150	10.152
1.172	I	-14.059	-14.102	-14.147	-14.193	-14.240	-14.288	-14.336	-14.387	-14.438	-14.491
	F	10.153	10.155	10.156	10.158	10.159	10.161	10.162	10.164	10.165	10.167
1.173	I	-14.545	-14.600	-14.657	-14.716	-14.776	-14.838	-14.902	-14.968	-15.037	-15.107
	F	10.168	10.170	10.171	10.173	10.174	10.176	10.177	10.179	10.180	10.181
1.174	I	-15.180	-15.256	-15.335	-15.416	-15.501	-15.590	-15.683	-15.780	-15.881	-15.988
	F	10.183	10.184	10.186	10.187	10.189	10.190	10.192	10.193	10.195	10.196
1.175	I	-16.101	-16.221	-16.348	-16.483	-16.627	-16.783	-16.951	-17.134	-17.335	-17.557
	F	10.198	10.199	10.201	10.202	10.204	10.205	10.207	10.208	10.210	10.211
1.176	I	-17.807	-18.091	-18.422	-18.815	-19.303	-19.944	-20.883	-22.671	-24.501	-21.448
	F	10.213	10.214	10.215	10.217	10.218	10.220	10.221	10.223	3.817	3.818
1.177	I	-20.279	-19.542	-19.003	-18.578	-18.226	-17.927	-17.666	-17.435	-17.228	-17.041
	F	3.818	3.819	3.819	3.820	3.821	3.821	3.822	3.822	3.823	3.823
1.178	I	-16.869	-16.710	-16.564	-16.427	-16.299	-16.178	-16.065	-15.957	-15.855	-15.758
	F	3.824	3.824	3.825	3.825	3.826	3.826	3.827	3.827	3.828	3.828
1.179	I	-15.665	-15.577	-15.492	-15.411	-15.333	-15.257	-15.185	-15.115	-15.047	-14.982
	F	3.829	3.830	3.830	3.831	3.831	3.832	3.832	3.833	3.833	3.834
1.180	I	-14.919	-14.857	-14.798	-14.740	-14.684	-14.629	-14.576	-14.524	-14.473	-14.424
	F	3.834	3.835	3.835	3.836	3.836	3.837	3.837	3.838	3.839	3.839
1.181	I	-14.376	-14.329	-14.283	-14.239	-14.195	-14.152	-14.110	-14.069	-14.028	-13.989
	F	3.840	3.840	3.841	3.841	3.842	3.843	3.843	3.843	3.844	3.844
1.182	I	-13.950	-13.912	-13.875	-13.839	-13.803	-13.767	-13.733	-13.699	-13.665	-13.632

ATOMIC SYMBOL = OS		ATOMIC NUMBER = 76		L ₃ ABSORPTION EDGE (1.14080 Å; 10.8675 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.126	I F'	-11.659	-11.673	-11.688	-11.702	-11.717	-11.732	-11.746	-11.761	-11.776	-11.792
	I F''	9.992	9.994	9.995	9.997	9.998	10.000	10.001	10.003	10.004	10.006
1.127	I F'	-11.807	-11.822	-11.838	-11.853	-11.869	-11.885	-11.901	-11.917	-11.933	-11.950
	I F''	10.007	10.009	10.010	10.012	10.013	10.015	10.016	10.018	10.019	10.021
1.128	I F'	-11.966	-11.983	-12.000	-12.016	-12.034	-12.051	-12.068	-12.086	-12.103	-12.121
	I F''	10.022	10.024	10.025	10.027	10.028	10.030	10.031	10.033	10.034	10.036
1.129	I F'	-12.139	-12.157	-12.175	-12.194	-12.212	-12.231	-12.250	-12.269	-12.289	-12.308
	I F''	10.037	10.039	10.040	10.042	10.043	10.045	10.046	10.048	10.049	10.051
1.130	I F'	-12.328	-12.348	-12.368	-12.388	-12.408	-12.429	-12.450	-12.471	-12.492	-12.514
	I F''	10.052	10.054	10.055	10.057	10.058	10.060	10.061	10.063	10.064	10.066
1.131	I F'	-12.535	-12.557	-12.580	-12.602	-12.625	-12.648	-12.671	-12.695	-12.718	-12.742
	I F''	10.067	10.069	10.070	10.072	10.073	10.075	10.076	10.078	10.079	10.081
1.132	I F'	-12.767	-12.791	-12.816	-12.841	-12.867	-12.893	-12.919	-12.945	-12.972	-12.999
	I F''	10.082	10.084	10.085	10.087	10.088	10.090	10.091	10.093	10.094	10.096
1.133	I F'	-13.027	-13.055	-13.083	-13.112	-13.141	-13.170	-13.200	-13.231	-13.261	-13.293
	I F''	10.097	10.099	10.100	10.102	10.104	10.105	10.107	10.108	10.110	10.111
1.134	I F'	-13.324	-13.357	-13.389	-13.423	-13.457	-13.491	-13.526	-13.562	-13.598	-13.635
	I F''	10.113	10.114	10.116	10.117	10.119	10.120	10.122	10.123	10.125	10.126
1.135	I F'	-13.672	-13.710	-13.749	-13.789	-13.829	-13.871	-13.913	-13.956	-14.000	-14.044
	I F''	10.128	10.129	10.131	10.132	10.134	10.135	10.137	10.138	10.140	10.141
1.136	I F'	-14.090	-14.137	-14.185	-14.234	-14.284	-14.336	-14.389	-14.443	-14.498	-14.556
	I F''	10.143	10.144	10.146	10.147	10.149	10.150	10.152	10.153	10.155	10.156
1.137	I F'	-14.614	-14.675	-14.737	-14.802	-14.868	-14.937	-15.008	-15.081	-15.157	-15.236
	I F''	10.158	10.159	10.161	10.162	10.164	10.165	10.167	10.168	10.170	10.171
1.138	I F'	-15.319	-15.404	-15.494	-15.587	-15.685	-15.788	-15.896	-16.010	-16.131	-16.259
	I F''	10.173	10.174	10.176	10.177	10.179	10.180	10.182	10.183	10.185	10.186
1.139	I F'	-16.396	-16.543	-16.701	-16.873	-17.059	-17.265	-17.494	-17.751	-18.046	-18.391
	I F''	10.188	10.189	10.191	10.192	10.194	10.195	10.197	10.198	10.200	10.201
1.140	I F'	-18.805	-19.326	-20.028	-21.107	-23.555	-22.936	-20.892	-19.897	-19.233	-18.735
	I F''	10.203	10.205	10.206	10.208	10.209	3.835	3.835	3.836	3.836	3.837
1.141	I F'	-18.336	-18.003	-17.717	-17.467	-17.244	-17.044	-16.862	-16.695	-16.541	-16.398
	I F''	3.837	3.838	3.838	3.839	3.839	3.840	3.841	3.841	3.842	3.842
1.142	I F'	-16.265	-16.140	-16.022	-15.911	-15.805	-15.705	-15.610	-15.519	-15.432	-15.349
	I F''	3.843	3.843	3.844	3.844	3.845	3.846	3.846	3.847	3.847	3.848
1.143	I F'	-15.269	-15.192	-15.118	-15.046	-14.977	-14.911	-14.846	-14.784	-14.723	-14.665
	I F''	3.848	3.849	3.849	3.850	3.850	3.851	3.852	3.852	3.853	3.853
1.144	I F'	-14.608	-14.552	-14.498	-14.446	-14.395	-14.345	-14.296	-14.249	-14.202	-14.157
	I F''	3.854	3.854	3.855	3.855	3.856	3.856	3.857	3.858	3.858	3.859
1.145	I F'	-14.113	-14.069	-14.027	-13.985	-13.945	-13.905	-13.866	-13.828	-13.790	-13.753
	I F''	3.859	3.860	3.860	3.861	3.861	3.862	3.863	3.863	3.864	3.864
1.146	I F'	-13.717	-13.682	-13.647	-13.612	-13.579	-13.546	-13.513	-13.481	-13.449	-13.418
	I F''	3.865	3.865	3.866	3.866	3.867	3.867	3.868	3.869	3.869	3.870
1.147	I F'	-13.388	-13.358	-13.328	-13.299	-13.270	-13.242	-13.214	-13.186	-13.159	-13.132
	I F''	3.870	3.871	3.871	3.872	3.872	3.873	3.874	3.874	3.875	3.875
1.148	I F'	-13.106	-13.080	-13.054	-13.029	-13.004	-12.979	-12.954	-12.930	-12.906	-12.883
	I F''	3.876	3.876	3.877	3.877	3.878	3.878	3.879	3.880	3.880	3.881
1.149	I F'	-12.859	-12.856	-12.814	-12.791	-12.769	-12.747	-12.725	-12.704	-12.682	-12.661
	I F''	3.881	3.882	3.882	3.883	3.883	3.884	3.885	3.885	3.886	3.886
1.150	I F'	-12.641	-12.620	-12.600	-12.579	-12.559	-12.540	-12.520	-12.501	-12.482	-12.463
	I F''	3.887	3.887	3.888	3.888	3.889	3.890	3.890	3.891	3.891	3.892
1.151	I F'	-12.444	-12.425	-12.407	-12.388	-12.370	-12.352	-12.335	-12.317	-12.299	-12.282
	I F''	3.892	3.893	3.893	3.894	3.894	3.895	3.896	3.896	3.897	3.897
1.152	I F'	-12.245	-12.248	-12.231	-12.214	-12.198	-12.181	-12.165	-12.149	-12.133	-12.117
	I F''	3.898	3.898	3.899	3.899	3.900	3.901	3.901	3.902	3.902	3.903
1.153	I F'	-12.101	-12.086	-12.070	-12.055	-12.039	-12.024	-12.009	-11.994	-11.980	-11.965
	I F''	3.903	3.904	3.904	3.905	3.905	3.906	3.907	3.907	3.908	3.908

ATOMIC SYMBOL = IR		ATOMIC NUMBER = 77		L ₃ ABSORPTION EDGE (1.10580 Å; 11.2115 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.091	I F'	-11.547	-11.561	-11.575	-11.590	-11.604	-11.619	-11.634	-11.649	-11.664	-11.679
	I F''	9.972	9.974	9.975	9.977	9.979	9.980	9.982	9.983	9.985	9.986
1.092	I F'	-11.694	-11.709	-11.725	-11.740	-11.756	-11.772	-11.788	-11.804	-11.820	-11.837
	I F''	9.988	9.989	9.991	9.993	9.994	9.996	9.997	9.999	10.000	10.002
1.093	I F'	-11.853	-11.870	-11.886	-11.903	-11.920	-11.937	-11.955	-11.972	-11.990	-12.007
	I F''	10.003	10.005	10.006	10.008	10.010	10.011	10.013	10.014	10.016	10.017
1.094	I F'	-12.025	-12.043	-12.062	-12.080	-12.099	-12.117	-12.136	-12.155	-12.175	-12.194
	I F''	10.019	10.020	10.022	10.024	10.025	10.027	10.028	10.030	10.031	10.033
1.095	I F'	-12.214	-12.233	-12.253	-12.274	-12.294	-12.315	-12.335	-12.356	-12.378	-12.399
	I F''	10.034	10.036	10.038	10.039	10.041	10.042	10.044	10.045	10.047	10.048
1.096	I F'	-12.421	-12.443	-12.465	-12.487	-12.510	-12.533	-12.556	-12.579	-12.603	-12.627
	I F''	10.050	10.052	10.053	10.055	10.056	10.058	10.059	10.061	10.062	10.064
1.097	I F'	-12.651	-12.676	-12.701	-12.726	-12.751	-12.777	-12.803	-12.830	-12.856	-12.883
	I F''	10.066	10.067	10.069	10.070	10.072	10.073	10.075	10.076	10.078	10.080
1.098	I F'	-12.911	-12.939	-12.967	-12.996	-13.025	-13.054	-13.084	-13.114	-13.145	-13.176
	I F''	10.081	10.083	10.084	10.086	10.087	10.089	10.090	10.092	10.094	10.095
1.099	I F'	-13.208	-13.240	-13.273	-13.306	-13.340	-13.374	-13.409	-13.445	-13.481	-13.517
	I F''	10.097	10.098	10.100	10.101	10.103	10.104	10.106	10.108	10.109	10.111
1.100	I F'	-13.555	-13.593	-13.632	-13.672	-13.712	-13.753	-13.795	-13.838	-13.882	-13.926
	I F''	10.112	10.114	10.115	10.117	10.119	10.120	10.122	10.123	10.125	10.126
1.101	I F'	-13.972	-14.019	-14.067	-14.116	-14.166	-14.217	-14.270	-14.324	-14.380	-14.437
	I F''	10.128	10.129	10.131	10.133	10.134	10.136	10.137	10.139	10.140	10.142
1.102	I F'	-14.496	-14.556	-14.619	-14.683	-14.749	-14.818	-14.889	-14.962	-15.038	-15.117
	I F''	10.143	10.145	10.147	10.148	10.150	10.151	10.153	10.154	10.156	10.157
1.103	I F'	-15.200	-15.285	-15.375	-15.468	-15.566	-15.669	-15.777	-15.892	-16.013	-16.142
	I F''	10.159	10.161	10.162	10.164	10.165	10.167	10.168	10.170	10.172	10.173
1.104	I F'	-16.279	-16.426	-16.585	-16.757	-16.945	-17.152	-17.383	-17.643	-17.941	-18.290
	I F''	10.175	10.176	10.178	10.179	10.181	10.182	10.184	10.186	10.187	10.189
1.105	I F'	-18.712	-19.246	-19.972	-21.113	-23.985	-22.422	-20.604	-19.665	-19.028	-18.545
	I F''	10.190	10.192	10.193	10.195	10.197	3.852	3.852	3.853	3.854	3.854
1.106	I F'	-18.156	-17.831	-17.551	-17.305	-17.087	-16.889	-16.710	-16.546	-16.394	-16.252
	I F''	3.855	3.855	3.856	3.856	3.857	3.858	3.858	3.859	3.859	3.860
1.107	I F'	-16.120	-15.997	-15.880	-15.770	-15.666	-15.567	-15.473	-15.383	-15.297	-15.214
	I F''	3.860	3.861	3.861	3.862	3.863	3.863	3.864	3.864	3.865	3.865
1.108	I F'	-15.135	-15.059	-14.985	-14.915	-14.846	-14.780	-14.716	-14.654	-14.594	-14.536
	I F''	3.866	3.867	3.867	3.868	3.868	3.869	3.869	3.870	3.871	3.871
1.109	I F'	-14.480	-14.425	-14.371	-14.319	-14.268	-14.219	-14.171	-14.124	-14.078	-14.033
	I F''	3.872	3.872	3.873	3.873	3.875	3.875	3.875	3.876	3.876	3.877
1.110	I F'	-13.989	-13.946	-13.904	-13.862	-13.822	-13.783	-13.744	-13.706	-13.669	-13.632
	I F''	3.877	3.878	3.879	3.879	3.880	3.880	3.881	3.881	3.882	3.883
1.111	I F'	-13.596	-13.561	-13.526	-13.492	-13.459	-13.426	-13.394	-13.362	-13.331	-13.300
	I F''	3.883	3.884	3.884	3.885	3.885	3.886	3.887	3.887	3.888	3.888
1.112	I F'	-13.269	-13.239	-13.210	-13.181	-13.153	-13.124	-13.097	-13.069	-13.042	-13.016
	I F''	3.889	3.889	3.890	3.891	3.891	3.892	3.892	3.893	3.893	3.894
1.113	I F'	-12.989	-12.964	-12.938	-12.913	-12.888	-12.863	-12.839	-12.815	-12.791	-12.768
	I F''	3.895	3.895	3.896	3.896	3.897	3.897	3.898	3.899	3.899	3.900
1.114	I F'	-12.745	-12.722	-12.699	-12.677	-12.655	-12.633	-12.611	-12.590	-12.569	-12.548
	I F''	3.900	3.901	3.901	3.902	3.903	3.903	3.904	3.904	3.905	3.905
1.115	I F'	-12.527	-12.507	-12.487	-12.467	-12.447	-12.427	-12.408	-12.389	-12.370	-12.351
	I F''	3.906	3.907	3.907	3.908	3.908	3.909	3.909	3.910	3.911	3.911
1.116	I F'	-12.332	-12.314	-12.295	-12.277	-12.259	-12.241	-12.224	-12.206	-12.189	-12.172
	I F''	3.912	3.912	3.913	3.913	3.914	3.915	3.915	3.916	3.916	3.917
1.117	I F'	-12.155	-12.138	-12.121	-12.104	-12.088	-12.072	-12.055	-12.039	-12.023	-12.008
	I F''	3.917	3.918	3.919	3.919	3.920	3.920	3.921	3.921	3.922	3.923
1.118	I F'	-11.992	-11.976	-11.961	-11.946	-11.931	-11.916	-11.901	-11.886	-11.871	-11.857
	I F''	3.923	3.924	3.924	3.925	3.925	3.926	3.927	3.927	3.928	3.928

ATOMIC SYMBOL = PT			ATOMIC NUMBER = 78		L ₃ ABSORPTION EDGE (1.07230 Å; 11.5617 KEV)							
	I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.058	I	F'	-11.491	-11.506	-11.520	-11.535	-11.550	-11.565	-11.580	-11.595	-11.611	-11.626
	I	F''	9.969	9.971	9.973	9.974	9.976	9.977	9.979	9.981	9.982	9.984
1.059	I	F'	-11.642	-11.658	-11.673	-11.689	-11.705	-11.722	-11.738	-11.754	-11.771	-11.788
	I	F''	9.985	9.987	9.989	9.990	9.992	9.993	9.995	9.997	9.998	10.000
1.060	I	F'	-11.805	-11.822	-11.839	-11.856	-11.873	-11.891	-11.909	-11.927	-11.945	-11.963
	I	F''	10.002	10.003	10.005	10.006	10.008	10.010	10.011	10.013	10.014	10.016
1.061	I	F'	-11.981	-12.000	-12.019	-12.038	-12.057	-12.076	-12.095	-12.115	-12.135	-12.155
	I	F''	10.018	10.019	10.021	10.023	10.024	10.026	10.027	10.029	10.031	10.032
1.062	I	F'	-12.175	-12.195	-12.216	-12.237	-12.258	-12.279	-12.300	-12.322	-12.344	-12.366
	I	F''	10.034	10.035	10.037	10.039	10.040	10.042	10.043	10.045	10.047	10.048
1.063	I	F'	-12.389	-12.411	-12.434	-12.457	-12.481	-12.504	-12.528	-12.553	-12.577	-12.602
	I	F''	10.050	10.052	10.053	10.055	10.056	10.058	10.060	10.061	10.063	10.064
1.064	I	F'	-12.627	-12.653	-12.678	-12.705	-12.731	-12.758	-12.785	-12.812	-12.840	-12.868
	I	F''	10.066	10.068	10.069	10.071	10.073	10.074	10.076	10.077	10.079	10.081
1.065	I	F'	-12.897	-12.926	-12.956	-12.985	-13.016	-13.046	-13.078	-13.109	-13.142	-13.174
	I	F''	10.082	10.084	10.085	10.087	10.089	10.090	10.092	10.094	10.095	10.097
1.066	I	F'	-13.208	-13.241	-13.276	-13.311	-13.346	-13.382	-13.419	-13.457	-13.495	-13.534
	I	F''	10.098	10.100	10.102	10.103	10.105	10.106	10.108	10.110	10.111	10.113
1.067	I	F'	-13.573	-13.614	-13.655	-13.697	-13.740	-13.784	-13.829	-13.874	-13.921	-13.969
	I	F''	10.115	10.116	10.118	10.119	10.121	10.123	10.124	10.126	10.127	10.129
1.068	I	F'	-14.018	-14.068	-14.120	-14.173	-14.227	-14.283	-14.340	-14.399	-14.459	-14.522
	I	F''	10.131	10.132	10.134	10.136	10.137	10.139	10.140	10.142	10.144	10.145
1.069	I	F'	-14.586	-14.653	-14.722	-14.793	-14.866	-14.943	-15.022	-15.105	-15.191	-15.281
	I	F''	10.147	10.149	10.150	10.152	10.153	10.155	10.157	10.158	10.160	10.161
1.070	I	F'	-15.375	-15.473	-15.576	-15.685	-15.800	-15.922	-16.052	-16.190	-16.339	-16.499
	I	F''	10.163	10.165	10.166	10.168	10.170	10.171	10.173	10.174	10.176	10.178
1.071	I	F'	-16.673	-16.863	-17.073	-17.307	-17.571	-17.875	-18.232	-18.667	-19.220	-19.985
	I	F''	10.179	10.181	10.183	10.184	10.186	10.187	10.189	10.191	10.192	10.194
1.072	I	F'	-21.232	-25.119	-21.900	-20.313	-19.439	-18.832	-18.367	-17.991	-17.674	-17.400
	I	F''	10.196	10.197	3.870	3.871	3.872	3.873	3.874	3.875	3.876	3.877
1.073	I	F'	-17.160	-16.945	-16.752	-16.575	-16.413	-16.263	-16.124	-15.994	-15.872	-15.757
	I	F''	3.875	3.876	3.877	3.877	3.877	3.878	3.879	3.879	3.880	3.880
1.074	I	F'	-15.648	-15.545	-15.447	-15.354	-15.265	-15.179	-15.098	-15.019	-14.944	-14.871
	I	F''	3.881	3.882	3.882	3.883	3.883	3.884	3.885	3.885	3.886	3.886
1.075	I	F'	-14.801	-14.733	-14.668	-14.604	-14.543	-14.483	-14.426	-14.369	-14.315	-14.262
	I	F''	3.887	3.887	3.888	3.889	3.889	3.890	3.890	3.891	3.892	3.892
1.076	I	F'	-14.210	-14.160	-14.111	-14.063	-14.016	-13.970	-13.926	-13.882	-13.839	-13.798
	I	F''	3.893	3.893	3.894	3.895	3.895	3.896	3.896	3.897	3.898	3.898
1.077	I	F'	-13.757	-13.717	-13.677	-13.639	-13.601	-13.564	-13.528	-13.492	-13.457	-13.423
	I	F''	3.899	3.899	3.900	3.900	3.901	3.902	3.902	3.903	3.903	3.904
1.078	I	F'	-13.389	-13.356	-13.323	-13.291	-13.259	-13.228	-13.198	-13.168	-13.138	-13.109
	I	F''	3.905	3.905	3.906	3.906	3.907	3.908	3.908	3.909	3.909	3.910
1.079	I	F'	-13.080	-13.051	-13.023	-12.996	-12.969	-12.942	-12.915	-12.889	-12.864	-12.838
	I	F''	3.911	3.911	3.912	3.912	3.913	3.913	3.914	3.915	3.915	3.916
1.080	I	F'	-12.813	-12.788	-12.764	-12.740	-12.716	-12.692	-12.669	-12.646	-12.623	-12.601
	I	F''	3.916	3.917	3.918	3.918	3.919	3.919	3.920	3.921	3.921	3.922
1.081	I	F'	-12.579	-12.557	-12.535	-12.514	-12.492	-12.480	-12.459	-12.439	-12.418	-12.398
	I	F''	3.922	3.923	3.924	3.924	3.925	3.925	3.926	3.926	3.927	3.928
1.082	I	F'	-12.378	-12.359	-12.339	-12.320	-12.301	-12.282	-12.263	-12.244	-12.226	-12.208
	I	F''	3.928	3.929	3.929	3.930	3.931	3.931	3.932	3.932	3.933	3.934
1.083	I	F'	-12.190	-12.172	-12.154	-12.137	-12.119	-12.102	-12.085	-12.068	-12.054	-12.038
	I	F''	3.934	3.935	3.935	3.936	3.936	3.937	3.938	3.938	3.939	3.939
1.084	I	F'	-12.021	-12.005	-11.988	-11.972	-11.956	-11.941	-11.925	-11.909	-11.894	-11.879
	I	F''	3.940	3.941	3.941	3.942	3.942	3.943	3.944	3.944	3.945	3.945
1.085	I	F'	-11.863	-11.848	-11.833	-11.819	-11.804	-11.789	-11.775	-11.760	-11.746	-11.732
	I	F''	3.946	3.947	3.947	3.948	3.948	3.949	3.949	3.950	3.951	3.951

ATOMIC SYMBOL = AU			ATOMIC NUMBER = 79		L ₃ ABSORPTION EDGE (1.04000 Å; 11.9208 KEV)							
I			0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
1.026	I	F'	-11.357	-11.372	-11.387	-11.401	-11.416	-11.431	-11.446	-11.461	-11.476	-11.492
	I	F''	9.958	9.960	9.962	9.963	9.965	9.967	9.968	9.970	9.972	9.973
1.027	I	F'	-11.507	-11.523	-11.539	-11.555	-11.570	-11.587	-11.603	-11.619	-11.636	-11.652
	I	F''	9.975	9.977	9.979	9.980	9.982	9.984	9.985	9.987	9.989	9.991
1.028	I	F'	-11.669	-11.686	-11.703	-11.720	-11.738	-11.755	-11.773	-11.791	-11.808	-11.827
	I	F''	9.992	9.994	9.996	9.997	9.999	10.001	10.002	10.004	10.006	10.008
1.029	I	F'	-11.845	-11.863	-11.882	-11.901	-11.920	-11.939	-11.958	-11.978	-11.997	-12.017
	I	F''	10.009	10.011	10.013	10.014	10.016	10.018	10.020	10.021	10.023	10.025
1.030	I	F'	-12.037	-12.057	-12.078	-12.098	-12.119	-12.140	-12.162	-12.183	-12.205	-12.227
	I	F''	10.026	10.028	10.030	10.031	10.033	10.035	10.037	10.038	10.040	10.042
1.031	I	F'	-12.249	-12.272	-12.294	-12.317	-12.341	-12.364	-12.388	-12.412	-12.436	-12.461
	I	F''	10.043	10.045	10.047	10.049	10.050	10.052	10.054	10.055	10.057	10.059
1.032	I	F'	-12.486	-12.511	-12.537	-12.563	-12.589	-12.615	-12.642	-12.669	-12.697	-12.725
	I	F''	10.061	10.062	10.064	10.066	10.067	10.069	10.071	10.073	10.074	10.076
1.033	I	F'	-12.753	-12.782	-12.811	-12.841	-12.871	-12.901	-12.932	-12.963	-12.995	-13.028
	I	F''	10.078	10.079	10.081	10.083	10.085	10.086	10.088	10.090	10.091	10.093
1.034	I	F'	-13.061	-13.094	-13.128	-13.162	-13.198	-13.233	-13.270	-13.307	-13.344	-13.383
	I	F''	10.095	10.097	10.098	10.100	10.102	10.103	10.105	10.107	10.109	10.110
1.035	I	F'	-13.422	-13.462	-13.502	-13.544	-13.586	-13.629	-13.673	-13.718	-13.765	-13.812
	I	F''	10.112	10.114	10.115	10.117	10.119	10.121	10.122	10.124	10.126	10.127
1.036	I	F'	-13.860	-13.909	-13.960	-14.012	-14.065	-14.120	-14.176	-14.234	-14.293	-14.354
	I	F''	10.129	10.131	10.133	10.136	10.138	10.139	10.141	10.143	10.145	10.147
1.037	I	F'	-14.417	-14.482	-14.549	-14.619	-14.691	-14.765	-14.842	-14.923	-15.006	-15.094
	I	F''	10.146	10.148	10.150	10.152	10.153	10.155	10.157	10.158	10.160	10.162
1.038	I	F'	-15.185	-15.280	-15.380	-15.485	-15.595	-15.712	-15.837	-15.969	-16.110	-16.262
	I	F''	10.164	10.165	10.167	10.169	10.170	10.172	10.174	10.176	10.177	10.179
1.039	I	F'	-16.426	-16.605	-16.801	-17.018	-17.260	-17.536	-17.855	-18.234	-18.701	-19.310
	I	F''	10.181	10.182	10.184	10.186	10.188	10.189	10.191	10.193	10.195	10.196
1.040	I	F'	-20.184	-21.764	-25.040	-21.088	-19.844	-19.084	-18.534	-18.104	-17.750	-17.450
	I	F''	10.198	10.200	3.888	3.888	3.889	3.889	3.890	3.891	3.891	3.892
1.041	I	F'	-17.189	-16.959	-16.752	-16.565	-16.394	-16.237	-16.091	-15.955	-15.828	-15.709
	I	F''	3.892	3.893	3.894	3.894	3.895	3.895	3.896	3.897	3.897	3.898
1.042	I	F'	-15.596	-15.490	-15.389	-15.293	-15.201	-15.113	-15.030	-14.949	-14.872	-14.798
	I	F''	3.898	3.899	3.900	3.900	3.901	3.902	3.902	3.903	3.903	3.904
1.043	I	F'	-14.741	-14.665	-14.599	-14.534	-14.472	-14.411	-14.352	-14.295	-14.240	-14.186
	I	F''	3.905	3.905	3.906	3.906	3.907	3.908	3.908	3.909	3.909	3.910
1.044	I	F'	-14.134	-14.082	-14.033	-13.984	-13.937	-13.891	-13.846	-13.801	-13.758	-13.716
	I	F''	3.911	3.911	3.912	3.912	3.913	3.914	3.914	3.915	3.916	3.916
1.045	I	F'	-13.675	-13.634	-13.595	-13.556	-13.518	-13.480	-13.444	-13.408	-13.372	-13.338
	I	F''	3.917	3.917	3.918	3.919	3.919	3.920	3.920	3.921	3.922	3.922
1.046	I	F'	-13.304	-13.270	-13.237	-13.205	-13.173	-13.142	-13.111	-13.081	-13.051	-13.021
	I	F''	3.923	3.923	3.924	3.925	3.925	3.926	3.926	3.927	3.928	3.928
1.047	I	F'	-12.993	-12.964	-12.936	-12.908	-12.881	-12.854	-12.827	-12.801	-12.775	-12.750
	I	F''	3.929	3.929	3.930	3.931	3.932	3.932	3.933	3.933	3.934	3.934
1.048	I	F'	-12.725	-12.700	-12.675	-12.651	-12.627	-12.603	-12.580	-12.557	-12.534	-12.512
	I	F''	3.935	3.936	3.936	3.937	3.937	3.938	3.939	3.939	3.940	3.940
1.049	I	F'	-12.489	-12.467	-12.446	-12.424	-12.403	-12.382	-12.361	-12.340	-12.320	-12.300
	I	F''	3.941	3.942	3.942	3.943	3.944	3.944	3.945	3.945	3.946	3.946
1.050	I	F'	-12.280	-12.260	-12.241	-12.221	-12.202	-12.183	-12.164	-12.146	-12.127	-12.109
	I	F''	3.947	3.948	3.948	3.949	3.950	3.950	3.951	3.951	3.952	3.953
1.051	I	F'	-12.091	-12.073	-12.055	-12.038	-12.020	-12.003	-11.986	-11.969	-11.952	-11.936
	I	F''	3.953	3.954	3.954	3.955	3.956	3.956	3.957	3.958	3.958	3.959
1.052	I	F'	-11.919	-11.903	-11.887	-11.870	-11.855	-11.839	-11.823	-11.807	-11.792	-11.777
	I	F''	3.959	3.960	3.961	3.961	3.962	3.962	3.963	3.964	3.964	3.965
1.053	I	F'	-11.762	-11.746	-11.731	-11.717	-11.702	-11.687	-11.673	-11.658	-11.644	-11.630
	I	F''	3.965	3.966	3.967	3.967	3.968	3.969	3.969	3.970	3.970	3.971

ATOMIC SYMBOL = HG		ATOMIC NUMBER = 80		L ₃ ABSORPTION EDGE (1.00910 Å; 12.2858 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.995	I F ⁺	-11.256	-11.271	-11.285	-11.300	-11.314	-11.329	-11.344	-11.359	-11.374	-11.389
	I F ⁺	9.936	9.938	9.940	9.942	9.943	9.945	9.947	9.949	9.950	9.952
0.996	I F ⁺	-11.405	-11.420	-11.436	-11.451	-11.467	-11.483	-11.499	-11.515	-11.532	-11.548
	I F ⁺	9.954	9.956	9.957	9.959	9.961	9.963	9.964	9.966	9.968	9.970
0.997	I F ⁺	-11.565	-11.582	-11.598	-11.615	-11.633	-11.650	-11.667	-11.685	-11.703	-11.721
	I F ⁺	9.971	9.973	9.975	9.976	9.978	9.980	9.982	9.983	9.985	9.987
0.998	I F ⁺	-11.739	-11.757	-11.775	-11.794	-11.813	-11.832	-11.851	-11.870	-11.889	-11.909
	I F ⁺	9.989	9.990	9.992	9.994	9.996	9.997	9.999	10.001	10.003	10.004
0.999	I F ⁺	-11.929	-11.949	-11.969	-11.989	-12.010	-12.031	-12.052	-12.073	-12.095	-12.116
	I F ⁺	10.006	10.008	10.010	10.011	10.013	10.015	10.017	10.018	10.020	10.022
1.000	I F ⁺	-12.138	-12.161	-12.183	-12.206	-12.229	-12.252	-12.275	-12.299	-12.323	-12.347
	I F ⁺	10.024	10.025	10.027	10.029	10.031	10.032	10.034	10.036	10.037	10.039
1.001	I F ⁺	-12.372	-12.397	-12.422	-12.448	-12.473	-12.499	-12.526	-12.553	-12.580	-12.608
	I F ⁺	10.041	10.043	10.044	10.046	10.048	10.050	10.051	10.053	10.055	10.057
1.002	I F ⁺	-12.635	-12.664	-12.693	-12.722	-12.751	-12.781	-12.812	-12.842	-12.874	-12.906
	I F ⁺	10.058	10.060	10.062	10.064	10.065	10.067	10.069	10.071	10.072	10.074
1.003	I F ⁺	-12.938	-12.971	-13.004	-13.038	-13.073	-13.108	-13.143	-13.180	-13.217	-13.254
	I F ⁺	10.076	10.078	10.079	10.081	10.083	10.085	10.086	10.088	10.090	10.092
1.004	I F ⁺	-13.293	-13.332	-13.372	-13.412	-13.454	-13.496	-13.539	-13.583	-13.628	-13.683
	I F ⁺	10.093	10.095	10.097	10.099	10.100	10.102	10.104	10.106	10.107	10.109
1.005	I F ⁺	-13.730	-13.778	-13.828	-13.878	-13.930	-13.984	-14.038	-14.095	-14.153	-14.212
	I F ⁺	10.111	10.113	10.114	10.116	10.118	10.120	10.121	10.123	10.125	10.127
1.006	I F ⁺	-14.273	-14.337	-14.402	-14.469	-14.539	-14.611	-14.686	-14.764	-14.844	-14.928
	I F ⁺	10.128	10.130	10.132	10.134	10.135	10.137	10.139	10.141	10.142	10.144
1.007	I F ⁺	-15.016	-15.107	-15.203	-15.304	-15.410	-15.521	-15.639	-15.765	-15.899	-16.042
	I F ⁺	10.146	10.148	10.149	10.151	10.153	10.155	10.156	10.158	10.160	10.162
1.008	I F ⁺	-16.196	-16.362	-16.544	-16.744	-16.965	-17.214	-17.498	-17.828	-18.224	-18.716
	I F ⁺	10.163	10.165	10.167	10.169	10.170	10.172	10.174	10.176	10.177	10.179
1.009	I F ⁺	-19.370	-20.347	-22.326	-23.043	-20.575	-19.506	-18.815	-18.303	-17.897	-17.560
	I F ⁺	10.181	10.183	10.184	3.905	3.906	3.907	3.907	3.908	3.908	3.909
1.010	I F ⁺	-17.272	-17.021	-16.798	-16.598	-16.416	-16.249	-16.096	-15.953	-15.821	-15.696
	I F ⁺	3.910	3.910	3.911	3.912	3.912	3.913	3.913	3.914	3.915	3.915
1.011	I F ⁺	-15.579	-15.469	-15.365	-15.265	-15.171	-15.081	-14.995	-14.912	-14.833	-14.757
	I F ⁺	3.916	3.917	3.917	3.918	3.918	3.919	3.920	3.920	3.921	3.922
1.012	I F ⁺	-14.684	-14.613	-14.545	-14.479	-14.416	-14.354	-14.294	-14.236	-14.180	-14.125
	I F ⁺	3.922	3.923	3.923	3.924	3.925	3.925	3.926	3.927	3.927	3.928
1.013	I F ⁺	-14.072	-14.020	-13.970	-13.921	-13.873	-13.826	-13.780	-13.736	-13.692	-13.649
	I F ⁺	3.929	3.929	3.930	3.930	3.931	3.932	3.932	3.933	3.934	3.934
1.014	I F ⁺	-13.608	-13.567	-13.527	-13.488	-13.449	-13.412	-13.375	-13.338	-13.303	-13.268
	I F ⁺	3.935	3.935	3.936	3.937	3.937	3.938	3.939	3.939	3.940	3.940
1.015	I F ⁺	-13.233	-13.200	-13.167	-13.134	-13.102	-13.071	-13.040	-13.009	-12.979	-12.949
	I F ⁺	3.941	3.942	3.942	3.943	3.944	3.944	3.945	3.946	3.946	3.947
1.016	I F ⁺	-12.920	-12.892	-12.863	-12.836	-12.808	-12.781	-12.754	-12.728	-12.702	-12.676
	I F ⁺	3.947	3.948	3.949	3.949	3.950	3.951	3.951	3.952	3.952	3.953
1.017	I F ⁺	-12.651	-12.626	-12.602	-12.577	-12.553	-12.530	-12.506	-12.483	-12.460	-12.438
	I F ⁺	3.954	3.954	3.955	3.956	3.956	3.957	3.957	3.958	3.959	3.959
1.018	I F ⁺	-12.415	-12.393	-12.371	-12.350	-12.328	-12.307	-12.286	-12.266	-12.245	-12.225
	I F ⁺	3.960	3.961	3.961	3.962	3.963	3.963	3.964	3.964	3.965	3.966
1.019	I F ⁺	-12.205	-12.185	-12.166	-12.147	-12.127	-12.108	-12.090	-12.071	-12.053	-12.034
	I F ⁺	3.966	3.967	3.968	3.968	3.969	3.969	3.970	3.971	3.971	3.972
1.020	I F ⁺	-12.016	-11.998	-11.981	-11.963	-11.946	-11.928	-11.911	-11.894	-11.877	-11.861
	I F ⁺	3.973	3.973	3.974	3.975	3.975	3.976	3.976	3.977	3.978	3.978
1.021	I F ⁺	-11.844	-11.828	-11.812	-11.796	-11.780	-11.764	-11.748	-11.733	-11.717	-11.702
	I F ⁺	3.979	3.980	3.980	3.981	3.981	3.982	3.983	3.983	3.984	3.985
1.022	I F ⁺	-11.687	-11.672	-11.657	-11.642	-11.627	-11.612	-11.598	-11.584	-11.569	-11.555
	I F ⁺	3.985	3.986	3.987	3.987	3.988	3.988	3.989	3.989	3.990	3.991

ATOMIC SYMBOL = TL		ATOMIC NUMBER = 81		L ₃ ABSORPTION EDGE (0.97930 Å; 12.6597 KEV)							
I		0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.965	I F ⁺	-11.126	-11.140	-11.154	-11.169	-11.183	-11.197	-11.212	-11.227	-11.241	-11.256
	I F ⁺	9.897	9.899	9.901	9.903	9.904	9.906	9.908	9.910	9.911	9.913
0.966	I F ⁺	-11.271	-11.286	-11.302	-11.317	-11.332	-11.348	-11.364	-11.379	-11.395	-11.411
	I F ⁺	9.915	9.917	9.918	9.920	9.922	9.924	9.925	9.927	9.929	9.931
0.967	I F ⁺	-11.428	-11.444	-11.460	-11.477	-11.494	-11.510	-11.527	-11.553	-11.570	-11.587
	I F ⁺	9.932	9.934	9.936	9.938	9.939	9.941	9.943	9.945	9.946	9.948
0.968	I F ⁺	-11.605	-11.623	-11.641	-11.659	-11.677	-11.695	-11.714	-11.733	-11.751	-11.771
	I F ⁺	9.950	9.952	9.953	9.955	9.957	9.959	9.961	9.962	9.964	9.966
0.969	I F ⁺	-11.790	-11.809	-11.829	-11.849	-11.869	-11.889	-11.910	-11.930	-11.951	-11.972
	I F ⁺	9.968	9.969	9.971	9.973	9.975	9.976	9.978	9.980	9.982	9.983
0.970	I F ⁺	-11.994	-12.015	-12.037	-12.059	-12.081	-12.104	-12.126	-12.149	-12.173	-12.196
	I F ⁺	9.985	9.987	9.989	9.990	9.992	9.994	9.996	9.997	9.999	10.001
0.971	I F ⁺	-12.220	-12.244	-12.268	-12.293	-12.318	-12.343	-12.369	-12.395	-12.421	-12.448
	I F ⁺	10.003	10.004	10.006	10.008	10.010	10.011	10.013	10.015	10.017	10.018
0.972	I F ⁺	-12.475	-12.502	-12.530	-12.558	-12.586	-12.615	-12.644	-12.674	-12.704	-12.735
	I F ⁺	10.020	10.022	10.024	10.025	10.027	10.029	10.031	10.032	10.034	10.036
0.973	I F ⁺	-12.766	-12.797	-12.829	-12.862	-12.895	-12.928	-12.963	-12.997	-13.033	-13.069
	I F ⁺	10.038	10.039	10.041	10.043	10.045	10.046	10.048	10.050	10.052	10.053
0.974	I F ⁺	-13.105	-13.143	-13.181	-13.219	-13.259	-13.299	-13.340	-13.382	-13.425	-13.468
	I F ⁺	10.055	10.057	10.059	10.060	10.062	10.064	10.066	10.067	10.069	10.071
0.975	I F ⁺	-13.513	-13.559	-13.605	-13.653	-13.702	-13.752	-13.804	-13.857	-13.911	-13.966
	I F ⁺	10.073	10.075	10.076	10.078	10.080	10.082	10.083	10.085	10.087	10.089
0.976	I F ⁺	-14.024	-14.083	-14.143	-14.206	-14.270	-14.337	-14.406	-14.477	-14.551	-14.628
	I F ⁺	10.090	10.092	10.094	10.096	10.097	10.099	10.101	10.103	10.104	10.106
0.977	I F ⁺	-14.707	-14.790	-14.877	-14.967	-15.062	-15.161	-15.266	-15.376	-15.492	-15.616
	I F ⁺	10.108	10.110	10.111	10.113	10.115	10.117	10.118	10.120	10.122	10.124
0.978	I F ⁺	-15.748	-15.889	-16.040	-16.204	-16.383	-16.579	-16.796	-17.039	-17.317	-17.639
	I F ⁺	10.126	10.127	10.129	10.131	10.133	10.134	10.136	10.138	10.140	10.141
0.979	I F ⁺	-18.023	-18.500	-19.127	-20.047	-21.811	-23.446	-20.556	-19.431	-18.718	-18.196
	I F ⁺	10.143	10.145	10.147	10.148	10.150	3.921	3.922	3.922	3.923	3.924
0.980	I F ⁺	-17.784	-17.444	-17.154	-16.901	-16.677	-16.476	-16.294	-16.128	-15.974	-15.832
	I F ⁺	3.924	3.925	3.926	3.926	3.927	3.928	3.928	3.929	3.929	3.930
0.981	I F ⁺	-15.699	-15.375	-15.458	-15.348	-15.244	-15.145	-15.051	-14.961	-14.875	-14.793
	I F ⁺	3.931	3.931	3.932	3.933	3.933	3.934	3.935	3.935	3.936	3.937
0.982	I F ⁺	-14.714	-14.638	-14.565	-14.495	-14.427	-14.362	-14.298	-14.237	-14.178	-14.120
	I F ⁺	3.937	3.938	3.939	3.939	3.940	3.941	3.941	3.942	3.942	3.943
0.983	I F ⁺	-14.064	-14.009	-13.956	-13.905	-13.855	-13.806	-13.758	-13.712	-13.666	-13.622
	I F ⁺	3.944	3.944	3.945	3.946	3.946	3.947	3.948	3.948	3.949	3.950
0.984	I F ⁺	-13.579	-13.536	-13.495	-13.454	-13.414	-13.375	-13.337	-13.300	-13.263	-13.227
	I F ⁺	3.950	3.951	3.952	3.952	3.953	3.954	3.954	3.955	3.955	3.956
0.985	I F ⁺	-13.192	-13.157	-13.123	-13.089	-13.056	-13.024	-12.992	-12.961	-12.930	-12.900
	I F ⁺	3.957	3.957	3.958	3.959	3.959	3.960	3.961	3.961	3.962	3.963
0.986	I F ⁺	-12.870	-12.840	-12.811	-12.783	-12.755	-12.727	-12.700	-12.673	-12.647	-12.620
	I F ⁺	3.963	3.964	3.965	3.965	3.966	3.967	3.967	3.968	3.969	3.969
0.987	I F ⁺	-12.595	-12.569	-12.544	-12.519	-12.495	-12.471	-12.447	-12.423	-12.400	-12.377
	I F ⁺	3.970	3.970	3.971	3.972	3.972	3.973	3.974	3.974	3.975	3.976
0.988	I F ⁺	-12.354	-12.332	-12.310	-12.288	-12.266	-12.245	-12.224	-12.203	-12.182	-12.161
	I F ⁺	3.976	3.977	3.978	3.978	3.979	3.980	3.980	3.981	3.982	3.983
0.989	I F ⁺	-12.141	-12.121	-12.101	-12.082	-12.062	-12.043	-12.024	-12.005	-11.986	-11.968
	I F ⁺	3.983	3.984	3.984	3.985	3.985	3.986	3.987	3.987	3.988	3.989
0.990	I F ⁺	-11.950	-11.932	-11.914	-11.896	-11.878	-11.861	-11.843	-11.826	-11.809	-11.792
	I F ⁺	3.989	3.990	3.991	3.991	3.992	3.993	3.993	3.994	3.995	3.995
0.991	I F ⁺	-11.776	-11.759	-11.743	-11.727	-11.710	-11.695	-11.679	-11.663	-11.647	-11.632
	I F ⁺	3.996	3.997	3.997	3.998	3.999	3.999	4.000	4.000	4.001	4.002
0.992	I F ⁺	-11.617	-11.601	-11.586	-11.571	-11.557	-11.542	-11.527	-11.513	-11.498	-11.484
	I F ⁺	4.002	4.003	4.004	4.004	4.005	4.006	4.006	4.007	4.008	4.009

ATOMIC SYMBOL = PB		ATOMIC NUMBER = 82		L ₃ ABSORPTION EDGE (0.95073 Å; 13.0401 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.937	I	-11.103	-11.117	-11.132	-11.146	-11.161	-11.176	-11.191	-11.206	-11.221	-11.236
	I	9.879	9.881	9.883	9.885	9.886	9.888	9.890	9.892	9.894	9.895
0.938	I	-11.251	-11.267	-11.282	-11.298	-11.314	-11.330	-11.346	-11.362	-11.378	-11.395
	I	9.897	9.899	9.901	9.902	9.904	9.906	9.908	9.909	9.911	9.913
0.939	I	-11.412	-11.428	-11.445	-11.462	-11.479	-11.497	-11.514	-11.532	-11.550	-11.568
	I	9.915	9.917	9.918	9.920	9.922	9.924	9.925	9.927	9.929	9.931
0.940	I	-11.586	-11.604	-11.622	-11.641	-11.660	-11.679	-11.698	-11.717	-11.737	-11.756
	I	9.932	9.934	9.936	9.938	9.940	9.941	9.943	9.945	9.947	9.948
0.941	I	-11.776	-11.796	-11.817	-11.837	-11.858	-11.879	-11.900	-11.921	-11.943	-11.965
	I	9.950	9.952	9.954	9.956	9.957	9.959	9.961	9.963	9.964	9.966
0.942	I	-11.987	-12.009	-12.032	-12.055	-12.078	-12.101	-12.125	-12.148	-12.173	-12.197
	I	9.968	9.970	9.972	9.973	9.975	9.977	9.979	9.980	9.982	9.984
0.943	I	-12.222	-12.247	-12.272	-12.298	-12.324	-12.350	-12.377	-12.404	-12.432	-12.460
	I	9.986	9.987	9.989	9.991	9.993	9.995	9.996	9.998	10.000	10.002
0.944	I	-12.488	-12.516	-12.545	-12.575	-12.605	-12.635	-12.666	-12.697	-12.729	-12.761
	I	10.003	10.005	10.007	10.009	10.011	10.012	10.014	10.016	10.018	10.019
0.945	I	-12.794	-12.827	-12.861	-12.895	-12.930	-12.966	-13.002	-13.039	-13.077	-13.115
	I	10.021	10.023	10.025	10.027	10.028	10.030	10.032	10.034	10.035	10.037
0.946	I	-13.154	-13.194	-13.235	-13.276	-13.319	-13.362	-13.406	-13.451	-13.498	-13.545
	I	10.039	10.041	10.043	10.044	10.046	10.048	10.050	10.051	10.053	10.055
0.947	I	-13.593	-13.643	-13.694	-13.746	-13.800	-13.855	-13.911	-13.969	-14.029	-14.091
	I	10.057	10.059	10.060	10.062	10.064	10.066	10.067	10.069	10.071	10.073
0.948	I	-14.155	-14.221	-14.289	-14.359	-14.432	-14.508	-14.586	-14.668	-14.753	-14.842
	I	10.075	10.076	10.078	10.080	10.082	10.083	10.085	10.087	10.089	10.091
0.949	I	-14.936	-15.033	-15.136	-15.244	-15.359	-15.480	-15.610	-15.748	-15.896	-16.057
	I	10.092	10.094	10.096	10.098	10.099	10.101	10.103	10.105	10.107	10.108
0.950	I	-16.231	-16.422	-16.633	-16.870	-17.138	-17.449	-17.817	-18.269	-18.856	-19.693
	I	10.110	10.112	10.114	10.115	10.117	10.119	10.121	10.123	10.124	10.126
0.951	I	-21.176	-25.323	-20.733	-19.470	-18.708	-18.161	-17.734	-17.384	-17.087	-16.829
	I	10.128	9.939	9.939	9.940	9.941	9.941	9.942	9.943	9.943	9.944
0.952	I	-16.602	-16.398	-16.214	-16.045	-15.891	-15.747	-15.614	-15.489	-15.371	-15.261
	I	9.945	9.945	9.946	9.947	9.947	9.948	9.949	9.949	9.950	9.951
0.953	I	-15.156	-15.057	-14.962	-14.872	-14.786	-14.704	-14.625	-14.549	-14.476	-14.406
	I	9.951	9.952	9.953	9.953	9.954	9.955	9.955	9.956	9.957	9.957
0.954	I	-14.338	-14.272	-14.209	-14.148	-14.088	-14.031	-13.975	-13.920	-13.868	-13.816
	I	9.958	9.959	9.959	9.960	9.961	9.961	9.962	9.963	9.963	9.964
0.955	I	-13.766	-13.717	-13.670	-13.623	-13.578	-13.534	-13.490	-13.448	-13.407	-13.366
	I	9.965	9.965	9.966	9.967	9.967	9.968	9.969	9.969	9.970	9.971
0.956	I	-13.326	-13.288	-13.250	-13.212	-13.176	-13.140	-13.104	-13.070	-13.036	-13.002
	I	9.971	9.972	9.973	9.973	9.974	9.975	9.976	9.976	9.977	9.978
0.957	I	-12.970	-12.937	-12.906	-12.874	-12.844	-12.814	-12.784	-12.755	-12.726	-12.697
	I	9.978	9.979	9.980	9.980	9.981	9.982	9.982	9.983	9.984	9.984
0.958	I	-12.669	-12.642	-12.615	-12.588	-12.562	-12.535	-12.510	-12.484	-12.459	-12.435
	I	9.985	9.986	9.986	9.987	9.988	9.988	9.989	9.990	9.990	9.991
0.959	I	-12.410	-12.386	-12.363	-12.339	-12.316	-12.293	-12.271	-12.248	-12.226	-12.204
	I	9.992	9.992	9.993	9.994	9.994	9.995	9.996	9.996	9.997	9.998
0.960	I	-12.183	-12.162	-12.140	-12.120	-12.099	-12.079	-12.058	-12.038	-12.019	-11.999
	I	9.998	9.999	4.000	4.000	4.001	4.002	4.002	4.003	4.004	4.004
0.961	I	-11.980	-11.961	-11.942	-11.923	-11.904	-11.886	-11.868	-11.850	-11.832	-11.814
	I	4.005	4.006	4.006	4.007	4.008	4.009	4.009	4.010	4.011	4.011
0.962	I	-11.797	-11.779	-11.762	-11.745	-11.728	-11.712	-11.695	-11.678	-11.662	-11.646
	I	4.012	4.013	4.013	4.014	4.015	4.015	4.016	4.017	4.017	4.018
0.963	I	-11.630	-11.614	-11.598	-11.583	-11.567	-11.552	-11.537	-11.522	-11.507	-11.492
	I	4.019	4.021	4.021	4.022	4.022	4.023	4.023	4.024	4.024	4.025
0.964	I	-11.477	-11.462	-11.448	-11.433	-11.419	-11.405	-11.391	-11.377	-11.363	-11.349
	I	4.025	4.026	4.027	4.027	4.028	4.029	4.029	4.030	4.031	4.031

ATOMIC SYMBOL = BI		ATOMIC NUMBER = 83		L ₃ ABSORPTION EDGE (0.92340 Å; 13.4261 KEV)							
	I	0.0000	0.0001	0.0002	0.0003	0.0004	0.0005	0.0006	0.0007	0.0008	0.0009
0.910	I	-11.041	-11.055	-11.070	-11.085	-11.100	-11.114	-11.130	-11.145	-11.160	-11.175
	I	9.861	9.863	9.865	9.867	9.869	9.870	9.872	9.874	9.876	9.878
0.911	I	-11.191	-11.206	-11.222	-11.238	-11.254	-11.270	-11.287	-11.303	-11.319	-11.336
	I	9.880	9.881	9.883	9.885	9.887	9.889	9.891	9.893	9.894	9.896
0.912	I	-11.353	-11.370	-11.387	-11.404	-11.422	-11.439	-11.457	-11.475	-11.493	-11.511
	I	9.898	9.900	9.902	9.904	9.906	9.907	9.909	9.911	9.913	9.915
0.913	I	-11.529	-11.548	-11.567	-11.585	-11.604	-11.624	-11.643	-11.663	-11.682	-11.702
	I	9.917	9.918	9.920	9.922	9.924	9.926	9.928	9.929	9.931	9.933
0.914	I	-11.723	-11.743	-11.764	-11.784	-11.805	-11.827	-11.848	-11.870	-11.892	-11.914
	I	9.935	9.937	9.939	9.941	9.942	9.944	9.946	9.948	9.950	9.952
0.915	I	-11.936	-11.959	-11.982	-12.005	-12.029	-12.053	-12.077	-12.101	-12.126	-12.150
	I	9.953	9.955	9.957	9.959	9.961	9.963	9.965	9.966	9.968	9.970
0.916	I	-12.176	-12.201	-12.227	-12.253	-12.280	-12.307	-12.334	-12.362	-12.390	-12.418
	I	9.972	9.974	9.976	9.978	9.979	9.981	9.983	9.985	9.987	9.989
0.917	I	-12.447	-12.476	-12.506	-12.536	-12.567	-12.598	-12.629	-12.661	-12.694	-12.727
	I	9.990	9.992	9.994	9.996	9.998	10.000	10.002	10.003	10.005	10.007
0.918	I	-12.761	-12.795	-12.829	-12.865	-12.901	-12.938	-12.975	-13.013	-13.052	-13.091
	I	10.009	10.011	10.013	10.015	10.016	10.018	10.020	10.022	10.024	10.026
0.919	I	-13.132	-13.173	-13.215	-13.258	-13.301	-13.346	-13.392	-13.439	-13.487	-13.536
	I	10.028	10.029	10.031	10.033	10.035	10.037	10.039	10.040	10.042	10.044
0.920	I	-13.586	-13.638	-13.691	-13.746	-13.802	-13.859	-13.919	-13.980	-14.043	-14.108
	I	10.046	10.048	10.050	10.052	10.053	10.055	10.057	10.059	10.061	10.063
0.921	I	-14.175	-14.244	-14.316	-14.391	-14.469	-14.549	-14.634	-14.721	-14.813	-14.909
	I	10.065	10.066	10.068	10.070	10.072	10.074	10.076	10.078	10.079	10.081
0.922	I	-15.010	-15.117	-15.229	-15.348	-15.475	-15.611	-15.756	-15.912	-16.082	-16.268
	I	10.083	10.085	10.087	10.089	10.091	10.092	10.094	10.096	10.098	10.100
0.923	I	-16.473	-16.702	-16.961	-17.258	-17.608	-18.034	-18.578	-19.331	-20.564	-24.621
	I	10.102	10.104	10.105	10.107	10.109	10.111	10.113	10.115	10.117	10.118
0.924	I	-21.117	-19.603	-18.761	-18.174	-17.724	-17.359	-17.052	-16.786	-16.553	-16.345
	I	9.954	9.955	9.955	9.956	9.957	9.958	9.958	9.959	9.960	9.960
0.925	I	-16.157	-15.986	-15.828	-15.683	-15.547	-15.421	-15.302	-15.191	-15.085	-14.985
	I	9.961	9.962	9.962	9.963	9.964	9.964	9.965	9.966	9.967	9.967
0.926	I	-14.890	-14.799	-14.713	-14.630	-14.550	-14.474	-14.401	-14.330	-14.262	-14.196
	I	9.968	9.969	9.969	9.970	9.971	9.971	9.972	9.973	9.973	9.974
0.927	I	-14.133	-14.071	-14.012	-13.954	-13.898	-13.844	-13.791	-13.739	-13.689	-13.640
	I	9.975	9.976	9.976	9.977	9.978	9.978	9.979	9.980	9.980	9.981
0.928	I	-13.592	-13.546	-13.501	-13.456	-13.413	-13.371	-13.329	-13.289	-13.249	-13.210
	I	9.982	9.982	9.983	9.984	9.985	9.985	9.986	9.987	9.987	9.988
0.929	I	-13.172	-13.135	-13.098	-13.062	-13.027	-12.993	-12.959	-12.925	-12.892	-12.860