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Jalaiah Unnam, Darrel R. Tenney,
and William D. Brewer

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Jalaiah Unnam
Virginia Polytechnic Institute and State University
Blacksburg, Virginia

Darrel R. Tenney and William D. Brewer
Langley Research Center
Hampton, Virginia

National Aeronautics
and Space Administration

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PREFACE

An on-line correction technique has been developed for the conversion of electron probe X-ray intensities into concentrations of emitting elements. This technique consisted of off-line calculation and representation of binary interaction data which were read into an on-line minicomputer to calculate variable correction coefficients. These coefficients were used to correct the X-ray data without significantly increasing computer core requirements. The polynomial coefficients representing most of the common binary interactions at different accelerating potentials were generated and are included. Results are presented for the analyses of several alloy standards to demonstrate the applicability of this correction procedure.

CONTENTS

INTRODUCTION

Electron probe microanalysis normally consists of (1) collecting characteristic X-ray intensities from a specimen as well as from standards for each of the elements in the specimen and (2) performing corrections to convert the experimental intensities into concentrations of emitting elements. These corrections are usually performed on a large off-line computer by using programs such as MAGIC IV (ref. 1) or COR 2 (ref. 2). However, with the advent of automated microprobes equipped with minicomputers, on-line correction of the experimental intensities is desirable. If a sequence of measurements at various points of a specimen surface is being performed, on-line data correction is particularly helpful to the operator in selecting the next step. Typically, the minicomputers used for microprobe automation are large enough to provide hardware control and data collection from all spectrometers and still have sufficient memory to execute small- to moderate-size programs. However, programs such as MAGIC IV and COR 2, which have been widely used for off-line data correction, require large core storage and, therefore, are not suitable for on-line data correction with minicomputers.

Two basically different approaches have been pursued in the development of on-line correction procedures. One approach has been to reduce the memory requirement of one of the large correction programs by making the simplifications and approximations necessary to make the program fit within the available memory of the minicomputer. This approach was taken by Yakowitz, Myklebust, and Heinrich (ref. 3) in the development of an on-line correction program entitled "FRAME."

An alternate approach has been twofold: first, to perform the lengthy and time-consuming corrections for binary pairs of elements off-line by using a large correction program such as MAGIC IV and, second, to use the results of these calculations in an on-line correction program requiring only a minimal amount of core storage. This "hybrid" (off-line—on-line) approach has been taken in the present study because it preserves the accuracy of large correction programs. This approach originated with early work by Ziebold and Ogilvie (ref. 4) and was subsequently refined by Bence and Albee (ref. 5), Bolon and Lifshin (ref. 6), and Leitner (ref. 7). Leitner represented the data for each binary interaction by polynomial coefficients obtained by least-squares fitting a third-order polynomial for C/K as a function of K, where C and K are the concentration and relative intensity of the element being considered. This method accurately describes most binary calibration curves. However, for binaries with strong absorption or fluorescence effects, the polynomial for C/K as a function of K does not accurately describe the calibration curve.

The current investigation was undertaken to (1) develop an improved method of representing the calibr tion curves for binaries in which absorption and fluorescence produce significant nonlinearity in the binary calibration curve, (2) incorporate these results into a modified Ziebold and Ogilvie correction scheme, and (3) demonstrate the applicability of this hybrid approach.

SYMBOLS

C	composition in weight fraction
C/K	ratio of C to K derived from MAGIC IV program
K	intensity measured for an element in unknown sample divided by intensity measured from pure element standard
k	intensity of characteristic X-ray line
n	total number of elements in alloy ABC...N
p	polynomial coefficient
α	binary interaction coefficient
β	multicomponent correction factor describing combined influence of all elements taken together

Subscripts:

A	element A in binary alloy A-B
B	element B in binary alloy A-B
AB	effect of element B on X-ray intensity emitted by element A
ABC...N	multicomponent alloy consisting of n elements
i	ith element in multicomponent alloy ABC...N
j	jth element in multicomponent alloy ABC...N
ij	effect of jth element on X-ray intensity emitted by ith element
M1,M2,M3	methods 1, 2, and 3 investigated to represent binary calibration curves by polynomial coefficients
0,1,2,3	polynomial coefficient designations (see eq. (6))

Superscripts:

s	standard sample
u	unknown sample

ANALYSIS DEVELOPMENT

Background

Ziebold and Ogilvie (ref. 4) have shown that calibration curves for many binary metal alloy systems can, within the variance of the data, be described by the relation

$$\frac{1 - K_A}{K_A} = \alpha_{AB} \frac{1 - C_A}{C_A} \tag{1}$$

where C_A is the weight fraction of element A in binary alloy A-B, K_A is intensity (corrected for dead time and background) of a characteristic radiation line of element A in alloy A-B relative to that of pure element A, and the constant α_{AB} is the binary interaction coefficient for the effect of element B on the X-ray intensity emitted from element A. Values of α less than unity generally indicate that fluorescence dominates in the interaction parameter, whereas values greater than unity indicate that absorption dominates. Rearrangement of equation (1) shows a linear relationship for the correction factor with composition

$$(C_A/K_A)_{AB} = C_A + \alpha_{AB}C_B \tag{2}$$

This linear variation of the correction factor with composition was extended to multicomponent systems by using the compositionally weighted average of the binary interaction coefficients (ref. 4)

$$\beta_A = \left(\frac{C_A}{K_A}\right)_{ABC\ldots N} = \frac{C_A + \alpha_{AB}C_B + \alpha_{AC}C_C + \alpha_{AD}C_D + \ldots + \alpha_{AN}C_N}{C_A + C_B + C_C + \ldots + C_N} \tag{3}$$

This parameter β_A has been referred to as the multicomponent interaction coefficient because it gives the combined effect of all elements in the sample on the intensity emitted from a characteristic X-ray line of element A in the sample. The validity of using binary interaction coefficients to compute multicomponent interaction coefficients has been verified for a number of ternary copper-base alloys by Ingersoll, Taylor, and Derouin (ref. 8).

Although the linear relationship for the calibration curve (eq. (2)) is a good approximation for several binaries, not all binary calibration curves are linear, especially the ones involving significant absorption or fluorescence. A more general polynomial relationship applicable for linear or nonlinear binaries is described in a later section.

On-Line Correction Procedure

If the variation of $(C_A/K_A)_{AB}$ with C_A is known from theory or experiment, the coefficient α_{AB} can be computed for a given value of C_A as follows:

$$\alpha_{AB} = \frac{(C_A/K_A)_{AB} - C_A}{1 - C_A} \tag{4}$$

The assumption is made that a concentration dependent α_{AB} (satisfying eq. (2)) is the appropriate binary interaction parameter to use in equation (3) to determine the multicomponent correction coefficient β_A. Thus, if $(C_A/K_A)_{AB}$ is not a linear function of C_A, the value of C_A must be known before equation (4) and, hence, equation (3) can be solved for α_{AB} and β_A. However, the purpose for computing α_{AB} and β_A is to estimate C_A by using

$$C_A = \beta_A K_A \tag{5}$$

Therefore, an iterative method of solution is used to determine the concentrations of each of the elements in the sample.

A general correction scheme using these relationships was developed to perform an on-line ZAF (atomic-number—absorption—fluorescence) correction of microprobe data. The essential elements of this correction scheme are as follows:

(1) The X-ray intensities are measured from all the standards and are corrected for dead time and background to give k_i^s.

(2) The X-ray intensities are measured from all elements in the sample and are corrected for dead time and background to give k_i^u.

(3) The relative intensity K_i of each element in the specimen is calculated by taking the ratio of k_i^u to k_i^s.

(4) As a first approximation, the unknown concentrations C_i are estimated as $K_i \Big/ \sum_{j=1}^{n} K_j$.

(5) The binary calibration polynomials, calculated off-line with a ZAF correction program, are solved for each binary permutation at C_i to give $(C_i/K_i)_{ij}$.

(6) The binary interaction coefficients α_{ij} are calculated by using (eq. (4)) $\alpha_{ij} = \left[(C_i/K_i)_{ij} - C_i\right]/(1 - C_i)$.

(7) The multicomponent correction factors β_i are computed by using equation (3).

(8) The unknown concentrations C_i are calculated by multiplying K_i by β_i (eq. (5)).

(9) Steps 7 and 8 are repeated until no significant changes occur in C_i.

(10) The concentrations C_i are used in steps 5 to 9 to compute refined $(C_i/K_i)_{ij}$, α_{ij}, β_i, and C_i. This process is repeated until no significant changes occur in the elemental concentrations C_i.

Off-Line Representation of Binary Calibration Curves

In order to perform the on-line correction scheme outlined, calibration data are required for all binary permutations in the specimen under consideration. A quantitative microprobe analysis program entitled "MAGIC IV" developed by Colby (ref. 1) was used for this purpose. MAGIC IV was written to perform a ZAF correction to convert the measured intensities into chemical compositions. MAGIC IV was also programed to run in a reverse mode where intensity ratios could be calculated from known concentrations. This program was modified so that any number of binary permutations of elements could be treated in the reverse mode. Intensity ratios were calculated for 22 compositions (C = 0.01, 0.05, 0.10, . . ., 0.95, 0.99, 1.00) for each binary pair.

An example of the type of results calculated is shown in figure 1. The C/K for boron K_α radiation is plotted as a function of boron concentration for the B-Si system at four different accelerating potentials. Because the boron K_α intensity is strongly absorbed by silicon, the values of C/K in the low concentration range are large. For 20 kV, the value of C/K varies from 290 on the low concentration end to unity at C = 1. Although the span in C/K is greatly reduced at lower excitation potentials, the variation in C/K is still much larger than generally found for binary systems where the elements have nearly equal atomic weights.

In order to minimize the memory required to execute the on-line correction scheme, each binary calibration curve must be represented by as few terms as possible. This is conveniently done by least-squares curve fitting a third-order polynomial through the calibration data. A subroutine was added to MAGIC IV program to accomplish this. Table 1 shows polynomial coefficients for the effect of element B on the intensity from element A determined for several binary interactions at 20 kV accelerating potential. These coefficients are shown for two different methods of representing C/K; that is,

$$C/K = p_0 + p_1C + p_2C^2 + p_3C^3 \tag{6}$$

$$C/K = p_0 + p_1K + p_2K^2 + p_3K^3 \tag{7}$$

As C approaches unity, K will approach unity; therefore, C/K should converge to unity as C or K approaches unity. Thus the sum of the polynomial coefficients in both cases should be unity, if they are usable for specimens where C approaches unity. As can be seen from table 1, the sums for C/K as a function of C are, in general, closer to unity than the corresponding sums for C/K as a function of K. Therefore, C/K as a function of C should better represent the calibration data.

The effect of elements such as titanium or silicon on the X-ray intensity of elements such as boron or carbon is so severe at 20 kV accelerating potential that even the polynomial coefficients for C/K as a function of C cannot accurately describe the interaction as C approaches unity. This is illustrated in table 2 where C is the concentration of boron in B-Si binary, K is the corresponding X-ray intensity of boron K_α from the sample relative to pure boron, and C/K is the resultant ratio. The values of $(C/K)_{M1}$ were obtained from equa-

tion (6) by using the polynomial coefficients of the third-order least-squares fit of the 22 data points of C/K as a function of C. Ideally, the values of $(C/K)_{M1}$ and C/K should be the same at all data points. Although the deviations for $C < 0.8$ are within 1.0 percent, the deviation is about 94 percent as C approaches unity. Because the percentage deviation in the value of C computed by the correction procedure is directly proportional to the percentage deviation of $(C/K)_{M1}$ from C/K, the high percentage deviations as C approaches unity must be minimized. Several computational methods were investigated to achieve this requirement.

In order to decrease the percentage deviation in the range $C \rightarrow 1$, a constrained least-squares third-order polynomial was fitted by using Lagrange multipliers with $C/K = 1$ at $C = 1$ as the constraint. This approach forced the value of C/K to be unity at $C = 1$ but gave a maximum deviation of about 20 percent in the range $C > 0.8$. Another approach investigated was to fit a third-order least-squares polynomial for $\sqrt{C/K}$ as a function of C. This approach reduced the range in the function being fit by an order of magnitude and, hence, resulted in an improved fit. The results are shown as $(C/K)_{M2}$ in table 2 where the maximum deviation is about 6.8 percent, occurring at $C = 1.00$. In order to further reduce this deviation, a correction term was added to $(C/K)_{M2}$ which forced the value of $(C/K)_{M2}$ to be unity at $C = 1$ and placed a decreasing correction for decreasing values of C. Results calculated by this approach are shown as $(C/K)_{M3}$ in table 2. The values of $(C/K)_{M3}$ were computed as

$$(C/K)_{M3} = \left[p_0 + p_1C + p_2C^2 + p_3C^3 + (1 - p_0 - p_1 - p_2 - p_3)C^{80}\right]^2 \qquad (8)$$

where p_0, p_1, p_2, and p_3 are the polynomial coefficients obtained by least-squares fitting $\sqrt{C/K}$ as a function of C. The power of 80 in the correction term was chosen so that it placed an optimum localized correction for several systems investigated. As can be inferred from table 2, this approach using $(C/K)_{M3}$ reduced the maximum deviation to within 2 percent.

Table 3 shows C/K and $(C/K)_{M3}$ for the effect of titanium on calcium K_α at 20 kV accelerating potential. In this system, C/K increases with increasing C, as opposed to the reverse situation observed for silicon on boron K_α. The values of $(C/K)_{M3}$ are in excellent agreement with the values of C/K determined from MAGIC IV. Several other binary combinations were checked, and in all cases the $(C/K)_{M3}$ approach adequately described the binary calibration curves. Therefore, the polynomial coefficients for $\sqrt{C/K}$ as a function of C were generated for the most common binary interactions by using the $(C/K)_{M3}$ approach and are presented in tables A1, A2, and A3. These tables are described and their use is discussed in the appendix.

EXPERIMENTAL PROCEDURE

In order to verify the correction procedure, several alloy standards were analyzed on an Applied Research Laboratories (ARL) electron microprobe. A minicomputer (16 K memory) with ARL supplied software was used for hardware control, data collection, and data correction. Several modifications were made to the software to incorporate the present correction scheme, to facilitate input opera-

tions, and to extend the applicability to more alloy systems. The required polynomial coefficients were determined off-line with the modified MAGIC IV program and punched on paper tape for input into the on-line computer. A single tape was used for any alloy containing any combination of elements for which data were included on the tape. Therefore, every alloy system did not require a different data tape. Also, the coefficients were not read in any particular order. The on-line program arranged them as required. The standard samples analyzed are listed in the following table:

Material	Number of samples	Number of elements	Source
Nickel and cobalt base superalloys	4	9	Cabot Corporation Stellite Division Kokomo, Indiana
Monel	3	8	International Nickel Co., Inc. Huntington Alloy Products Division Huntington, West Virginia
Low carbon steel Free machining brass Waspaloy René 41	1 1 1 1	8 6 10 10	National Bureau of Standards Washington, D.C. (certified analyses)

The nickel and cobalt base superalloys and monel samples were supplied by Applied Research Laboratories and are the same samples analyzed and reported on by Leitner (ref. 7).

The electron microprobe was operated at 20 kV accelerating potential and 0.1 μA sample current. Pure element calibration standards were used. In order to compensate for sample inhomogenities, the beam was slightly defocused and X-ray data were collected from several different locations on the samples. The experimental X-ray intensities were corrected both on-line with the procedure outlined in the previous sections and off-line with the MAGIC IV program.

RESULTS AND DISCUSSION

The elemental concentrations determined by the present on-line scheme and the off-line MAGIC IV program are given in tables 4 to 9 for all samples analyzed. The reported concentrations supplied with the samples are also given in the tables. The concentrations determined by the on-line procedure are in good agreement with those calculated with MAGIC IV and with the reported values. The absolute differences between the reported weight percent concentrations and present analyses are less than 1.1 weight percent. Also, the differences in the weight percent concentrations between MAGIC IV and present analyses are less than 0.5 weight percent. These differences are well within the accuracy generally ascribed to microprobe analyses.

Tables 4 to 9 include analyses on 15 different elements. A total of 92 elemental analyses were performed, 37 of which represented elements whose reported concentration values were less than 1 weight percent and 29 of which represented elements with 10 weight percent concentration or greater. Table 10 summarizes the relative errors in the present analyses with respect to MAGIC IV analyses and reported values. For the purpose of comparison, the weight percent concentration is divided into three intervals (<1, 1 to 10, and >10), and the percent of the present analyses of each concentration range that is within a given deviation (±2 percent, ±5 percent, ±10 percent) are listed. A ±10 percent deviation for 0.5 weight percent concentration corresponds to 0.5 ± 0.05. Therefore, ±10 percent may be a reasonable deviation for analyses with concentrations less than 1 weight percent. Similarly, ±5 percent for 1 to 10 weight percent concentration and ±2 percent for greater than 10 weight percent concentration may be reasonable deviations. These combinations are denoted by asterisks in table 10. As can be seen, the present analyses gave results which are in good agreement with MAGIC IV results. Also, the agreement for <1 weight percent concentration range was as good as the agreement for >10 weight percent. The present technique gave concentration values in good agreement with the reported values for elements which were present in excess of 10 weight percent, but the agreement was not as good for lower concentrations. However, comparison of the present results with the MAGIC IV results is the significant test of the on-line correction procedure. Comparisons with reported concentrations reflect the overall accuracy which comprises the experimental procedures as well as the correction procedures.

CONCLUDING REMARKS

An on-line correction technique has been developed for the conversion of electron probe X-ray intensities into concentrations of emitting elements. This technique consisted of off-line calculation and representation of binary interaction data and on-line incorporation of variable correction coefficients without significantly increasing computer core requirements. The binary interaction data were obtained by running Colby's MAGIC IV program in the reverse mode. The data for each binary interaction were represented by polynomial coefficients obtained by least-squares fitting a third-order polynomial for $\sqrt{C/K}$ as a function of C. These polynomial coefficients were generated for most of the common binary interactions at different accelerating potentials and were tabulated. The on-line correction was performed by a minicomputer which also handled electron-probe hardware control and data collection.

Experimental data were collected on different alloy standards to demonstrate the applicability of the present correction procedure. In all cases, the present scheme gave compositions which were within 1.1 of the reported weight percent concentrations. Also, the experimental intensity ratios were input into MAGIC IV program off-line, and the resulting concentrations were in good agreement with the present analyses. These comparisons demonstrated that the present technique

for the on-line correction of microprobe data with a minicomputer of modest memory gives accuracy comparable with large off-line correction programs.

Langley Research Center
National Aeronautics and Space Administration
Hampton, VA 23665
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TABLE 1.- POLYNOMIAL COEFFICIENTS FOR EFFECT OF ELEMENT B ON K_α X-RAY INTENSITY FROM ELEMENT A AT 20 kV ACCELERATING POTENTIAL

Element A	Element B	p_0	p_1	p_2	p_3	$\sum_{i=0}^{3} p_i$
$C/K = p_0 + p_1C + p_2C^2 + p_3C^3$						
C	B	46.347	-82.844	41.679	-4.186	0.996
Si	B	.965	.024	.015	-.006	1.000
Ti	B	1.080	-.060	-.022	.001	1.000
B	C	2.938	-2.294	.292	.063	1.000
Si	C	1.107	-.126	.030	-.011	1.000
Ti	C	1.158	-.129	-.030	.001	1.000
B	Si	290.069	-365.112	-51.609	126.713	.060
C	Si	34.656	-39.619	-4.820	10.724	.941
Ti	Si	1.211	-.221	.013	-.003	1.000
B	Ti	38.814	-33.914	-19.621	15.578	.958
C	Ti	6.840	-4.608	-2.344	1.105	.993
Si	Ti	1.321	-.260	-.068	.006	1.000
$C/K = p_0 + p_1K + p_2K^2 + p_3K^3$						
C	B	30.660	-250.935	541.031	-324.184	-3.428
Si	B	.965	.023	.016	-.005	1.000
Ti	B	1.080	-.065	-.021	.005	1.000
B	C	2.895	-5.243	5.951	-2.622	.980
Si	C	1.107	-.138	.046	-.015	1.000
Ti	C	1.158	-.151	-.017	.009	1.000
B	Si	161.451	-2049.053	4604.001	-2718.706	-2.307
C	Si	25.971	-198.415	416.562	-246.316	-2.198
Ti	Si	1.210	-.266	.070	-.014	1.000
B	Ti	29.602	-231.621	479.422	-279.523	-2.120
C	Ti	6.588	-23.140	35.428	-18.041	.835
Si	Ti	1.321	-.350	.004	.024	1.000

TABLE 2.- THREE REPRESENTATIONS OF CALIBRATION CURVE FOR EFFECT OF SILICON ON BORON K_α AT 20 kV ACCELERATING POTENTIAL

C	K	C/K	$(C/K)_{M1}$	$(C/K)_{M2}$	$(C/K)_{M3}$
0.01	0.3481E-04	0.2873E+03	0.2864E+03	0.2881E+03	0.2881E+03
.05	.1839E-03	.2719E+03	.2717E+03	.2720E+03	.2720E+03
.10	.3956E-03	.2528E+03	.2532E+03	.2525E+03	.2525E+03
.15	.6412E-03	.2340E+03	.2346E+03	.2334E+03	.2334E+03
.20	.9287E-03	.2154E+03	.2160E+03	.2148E+03	.2148E+03
.25	.1269E-02	.1970E+03	.1975E+03	.1966E+03	.1966E+03
.30	.1676E-02	.1790E+03	.1793E+03	.1788E+03	.1788E+03
.35	.2169E-02	.1614E+03	.1614E+03	.1614E+03	.1614E+03
.40	.2775E-02	.1441E+03	.1439E+03	.1443E+03	.1443E+03
.45	.3534E-02	.1273E+03	.1269E+03	.1276E+03	.1276E+03
.50	.4502E-02	.1111E+03	.1104E+03	.1114E+03	.1114E+03
.55	.5766E-02	.9538E+02	.9473E+02	.9575E+02	.9575E+02
.60	.7466E-02	.8036E+02	.7979E+02	.8066E+02	.8066E+02
.65	.9834E-02	.6610E+02	.6574E+02	.6628E+02	.6628E+02
.70	.1328E-01	.5272E+02	.5266E+02	.5276E+02	.5276E+02
.75	.1859E-01	.4034E+02	.4066E+02	.4025E+02	.4025E+02
.80	.2744E-01	.2915E+02	.2983E+02	.2896E+02	.2896E+02
.85	.4394E-01	.1934E+02	.2025E+02	.1911E+02	.1911E+02
.90	.8064E-01	.1116E+02	.1204E+02	.1097E+02	.1097E+02
.95	.1932E+00	.4916E+01	.5275E+01	.4842E+01	.4840E+01
.99	.6286E+00	.1575E+01	.9750E+00	.1617E+01	.1579E+01
1.00	.1000E+01	.1000E+01	.6030E-01	.1068E+01	.1000E+01

Note: The symbol E is used to denote times 10 to the power.

TABLE 3.- REPRESENTATION OF CALIBRATION CURVE FOR EFFECT OF TITANIUM ON CALCIUM K_α AT 20 kV ACCELERATING POTENTIAL

C	K	C/K	$(C/K)_{M3}$
0.01	0.0131	0.7651	0.7688
.05	.0635	.7878	.7875
.10	.1232	.8114	.8090
.15	.1804	.8314	.8288
.20	.2356	.8488	.8468
.25	.2893	.8641	.8632
.30	.3417	.8779	.8780
.35	.3931	.8905	.8914
.40	.4434	.9020	.9036
.45	.4930	.9127	.9145
.50	.5419	.9228	.9245
.55	.5900	.9322	.9335
.60	.6376	.9411	.9418
.65	.6845	.9496	.9496
.70	.7310	.9576	.9570
.75	.7769	.9654	.9641
.80	.8224	.9728	.9711
.85	.8674	.9799	.9782
.90	.9120	.9868	.9856
.95	.9562	.9935	.9932
.99	.9913	.9987	.9985
1.00	1.0000	1.0000	1.0000

TABLE 4.- ANALYSIS OF LOW CARBON STEEL AT 20 kV ACCELERATING POTENTIAL

Element	Intensity ratio, K	Weight percent		
		Present analysis	MAGIC IV	Reported value
Fe	0.6393	64.50	64.74	64.46
Cr	.2138	18.23	18.55	18.45
Ni	.1114	11.92	11.92	12.18
Mo	.0187	2.46	2.34	2.38
Mn	.0170	1.63	1.68	1.83
Si	.0027	.46	.46	.50
Cu	.0015	.16	.16	.17
Co	.0019	.19	.20	.10

TABLE 5.- ANALYSIS OF WASPALOY AT 20 kV ACCELERATING POTENTIAL

Element	Intensity ratio, K	Weight percent		
		Present analysis	MAGIC IV	Reported value
Ni	0.5504	55.59	55.60	56.10
Cr	.2048	19.09	19.36	18.88
Co	.1285	13.14	13.30	13.00
Mo	.0337	4.42	4.41	4.50
Ti	.0363	3.47	3.56	3.09
Fe	.0257	2.21	2.36	2.22
Al	.0052	1.27	1.26	1.26
Si	.0029	.54	.53	.47
Mn	.0042	.36	-----	.34
Cu	.0006	.07	-----	.03

TABLE 6.- ANALYSIS OF FREE MACHINING BRASS AT 20 kV ACCELERATING POTENTIAL

Element	Intensity ratio, K	Weight percent		
		Present analysis	MAGIC IV	Reported value
Cu	0.6213	61.26	61.28	61.33
Zn	.3542	35.11	35.12	35.31
Pb	.0178	2.36	2.35	2.77
Sn	.0027	.31	.31	.43
Fe	.0012	.09	.09	.09
Ni	.0008	.07	.06	.07

TABLE 7.- ANALYSIS OF RENÉ 41 AT 20 kV ACCELERATING POTENTIAL

Element	Intensity ratio, K	Weight percent		
		Present analysis	MAGIC IV	Reported value
Ni	0.5285	53.16	53.14	53.30
Cr	.2040	19.28	19.55	19.17
Co	.1111	11.34	11.49	11.50
Mo	.0797	10.30	10.28	10.30
Ti	.0285	2.76	2.84	2.90
Al	.0082	1.95	1.93	1.70
Fe	.0051	.44	.47	.46
Si	.0013	.23	.23	.21
Mn	.0008	.07	-----	.03
Cu	.0005	.06	-----	.04

TABLE 8.- ANALYSES OF MONEL AT 20 kV ACCELERATING POTENTIAL

Element	Intensity ratio, K	Weight percent		
		Present analysis	MAGIC IV	Reported value
HF 461				
Ni	0.7058	69.77	69.83	70.89
Cu	.2188	22.75	22.76	23.04
Al	.0133	3.65	3.64	3.47
Mn	.0188	1.56	1.56	1.46
Fe	.0069	.51	.51	.55
Ti	.0031	.31	.31	.30
Co	.0016	.14	.14	.16
Si	.0006	.12	.12	.10
HF 460				
Ni	0.6801	66.99	67.01	66.96
Cu	.2570	26.66	26.66	27.47
Al	.0101	2.79	2.78	2.59
Mn	.0093	.77	.77	.74
Fe	.0104	.77	.76	.80
Ti	.0057	.56	.57	.54
Co	.0059	.53	.52	.53
Si	.0012	.26	.24	.25
HF 459				
Ni	0.6400	62.84	62.85	63.83
Cu	.2965	30.68	30.69	30.97
Al	.0057	1.60	1.58	1.59
Mn	.0065	.54	.54	.51
Fe	.0182	1.34	1.34	1.40
Ti	.0095	.95	.95	.82
Co	.0031	.27	.27	.29
Si	.0020	.40	.41	.41

TABLE 9.- ANALYSES OF NICKEL AND COBALT BASE SUPERALLOYS

AT 20 kV ACCELERATING POTENTIAL

Element	Intensity ratio, K	Weight percent		
		Present analysis	MAGIC IV	Reported value
2730 UV-2				
Ni	0.5469	54.49	54.50	53.80
Mo	.1296	16.80	16.76	17.13
Cr	.1666	15.63	16.08	15.54
Fe	.0666	5.75	6.13	6.13
W	.0267	3.47	3.47	3.64
Co	.0100	.99	1.02	1.06
Si	.0046	.80	.79	.85
Mn	.0098	.87	.93	.83
V	.0031	.30	-----	.30
2730 UV-3				
Ni	0.5459	54.21	54.23	54.10
Mo	.1240	16.08	16.08	16.10
Cr	.1750	16.43	16.88	16.32
Fe	.0546	4.69	5.02	5.05
W	.0323	4.21	4.19	4.42
Co	.0171	1.71	1.74	1.74
Si	.0028	.48	.48	.59
Mn	.0067	.59	.63	.55
V	.0023	.22	-----	.21
1860 UV-2				
Ni	0.1052	10.01	10.03	9.80
Mo	.0052	.68	.70	.72
Cr	.2231	19.89	20.41	19.95
Fe	.0231	2.16	2.23	2.33
W	.1115	14.12	14.13	14.26
Co	.4892	48.84	48.99	49.88
Si	.0031	.51	.51	.94
Mn	.0216	1.77	1.91	1.79
1060 UV-3				
Ni	0.0039	0.39	0.38	0.31
Mo	.0077	.98	.99	.91
Cr	.2900	26.04	26.26	26.44
Fe	.0310	3.05	3.11	3.27
W	.0395	5.09	5.09	5.36
Co	.5898	60.51	60.55	61.02
Si	.0074	1.25	1.24	1.39
Mn	.0057	.46	.50	.45

TABLE 10.- RELATIVE ERRORS IN PRESENT ON-LINE ANALYSES WITHIN GIVEN PERCENT DEVIATION FROM MAGIC IV OR REPORTED VALUES

Range of weight percent concentration	Percent of present analyses within a given deviation from -					
	MAGIC IV			Reported values		
	±2 percent deviation	±5 percent deviation	±10 percent deviation	±2 percent deviation	±5 percent deviation	±10 percent deviation
<1	68	81	*97	11	38	*68
≧1 ≦10	64	*80	100	27	*50	81
>10	*97	100	100	*93	100	100

*Reasonable deviation.

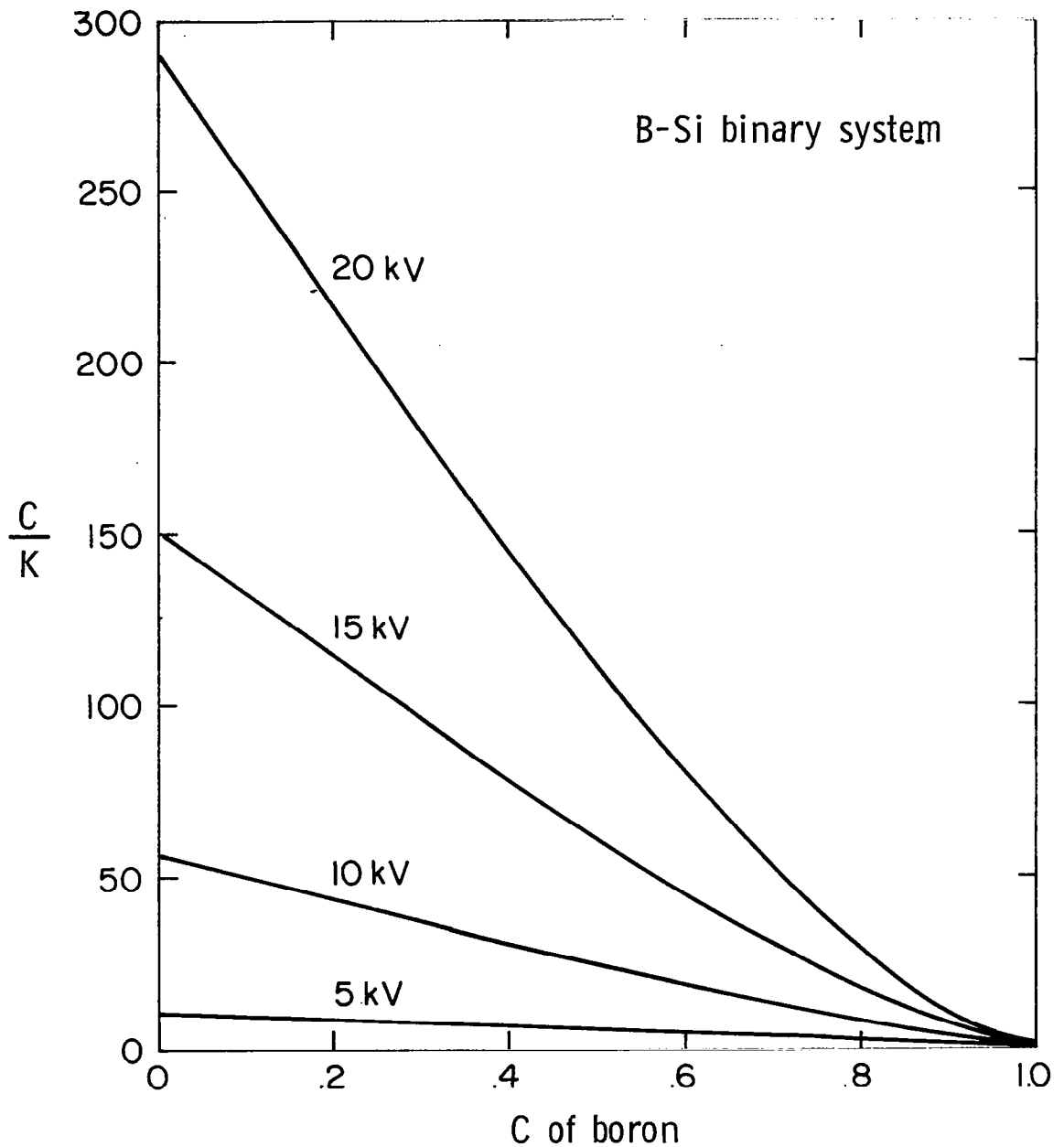

Figure 1.- Effect of silicon on boron K_α intensity at different accelerating potentials, computed by using MAGIC IV program with normal beam incidence and 52.5° X-ray emergence angle.

APPENDIX

POLYNOMIAL COEFFICIENTS FOR COMMON BINARY INTERACTIONS

This appendix presents tabulated polynomial coefficients for the common binary interactions for different acceleration potentials. The elements and their appropriate X-ray lines were selected so that these tables are concise and yet include most of the common binary interactions.

For each binary interaction, X-ray intensity ratios were computed for 22 concentration values by running Colby's MAGIC IV program (ref. 1) in the reverse mode. These concentration values were 0.01, 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 0.99, and 1.00. Several methods were investigated to adequately represent the calibration data for each binary interaction by as few terms and constants as possible. Least-squares fitting of the calibration data with the equation

$$\sqrt{C/K} = p_0 + p_1 C + p_2 C^2 + p_3 C^3 \tag{A1}$$

gave the best results. Although the polynomial coefficients thus obtained represented the calibration data rather accurately for values of C not approaching unity, they did not adequately represent the range $C \to 1$. However, use of the equation

$$C/K = \left\{ \left(p_0 + p_1 C + p_2 C^2 + p_3 C^3 \right) + \left[(1 - p_0 - p_1 - p_2 - p_3) C^{80} \right] \right\}^2 \tag{A2}$$

with p_0, p_1, p_2, and p_3 from equation (A1) gave values of C/K which were in excellent agreement (±2 percent deviation) with the calibration values. The correction term in the brackets forces the value of C/K to be unity at $C = 1$ and places a decreasing correction for decreasing C values where the fit is already adequate.

The polynomial coefficients p_0, p_1, p_2, and p_3 are listed in tables A1, A2, and A3 for several binary interactions at 10, 15, and 20 kV accelerating potentials for normal beam incidence and an X-ray emergence angle of 52.5°. These coefficients correspond to the effect of element B (listed under column B) on the X-ray intensity from element A (listed under column A). Under column A, the lines K_α, L_α, and M_α are denoted by KA, LA, and MA; for example, BKA denotes the boron K_α line. The symbols Z_A and Z_B denote the atomic numbers of elements A and B, and should be helpful in searching for the appropriate interaction. The wavelengths in angstroms of the affected X-ray lines are listed under λ_A. These values should be helpful in selecting the proper spectrometer crystal for the analysis of element A. Comparison of the p_0 values for a given interaction at different acceleration potentials can aid the probe operator in choosing an optimum acceleration potential for analysis of the sample. The amount by which p_0 deviates from unity is a direct indication of the extent of the corrections involved in converting X-ray intensity data to chemical compositions.

APPENDIX

The polynomial coefficients are read into the minicomputer in the form of a punched paper tape representing as many as 170 binary interactions at a given accelerating potential. Once a data tape is made up representing common interactions, it can be used repeatedly, thus avoiding the need to make up a new data tape for every alloy system.

APPENDIX

TABLE A1.- POLYNOMIAL COEFFICIENTS FOR 20 kV ACCELERATING POTENTIAL

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
5	BKA	67.395	C	6	1.7144	-.6698	-.0434	-.0011
5	BKA	67.395	N	7	2.5247	-1.3714	-.0973	-.0558
5	BKA	67.395	O	8	3.5548	-2.2096	-.1732	-.1708
5	BKA	67.395	F	9	4.8139	-3.1253	-.3318	-.3540
5	BKA	67.395	NA	11	8.4798	-5.7983	-.5732	-1.0988
5	BKA	67.395	MG	12	10.9433	-7.6370	-.5229	-1.7680
5	BKA	67.395	AL	13	13.7444	-9.4720	-.6868	-2.5631
5	BKA	67.395	SI	14	17.0932	-11.9659	-.3360	-3.7578
5	BKA	67.395	P	15	24.7695	-17.1029	-.5767	-6.0365
5	BKA	67.395	S	16	13.4000	-9.0070	.2225	-3.5817
5	BKA	67.395	CL	17	10.3522	-6.5517	.0966	-2.8698
5	BKA	67.395	K	19	7.0291	-4.1845	.2725	-2.0963
5	BKA	67.395	CA	20	6.3708	-3.7660	.3789	-1.9634
5	BKA	67.395	SC	21	6.0962	-3.3430	.1760	-1.9092
5	BKA	67.395	TI	22	6.2625	-3.3665	.1942	-2.0681
5	BKA	67.395	V	23	6.7308	-3.5774	.2415	-2.3691
5	BKA	67.395	CR	24	7.4795	-4.1229	.5327	-2.8573
5	BKA	67.395	MN	25	8.3673	-4.6033	.6841	-3.4093
5	BKA	67.395	FE	26	9.4410	-5.3950	1.1395	-4.1373
5	BKA	67.395	CO	27	10.5700	-6.0055	1.3745	-4.8815
5	BKA	67.395	NI	28	11.8591	-7.1105	2.1779	-5.8554
5	BKA	67.395	CU	29	9.8763	-5.5417	1.5692	-4.8456
5	BKA	67.395	ZN	30	10.6844	-6.0896	1.9685	-5.4961
5	BKA	67.395	GA	31	9.6781	-5.2529	1.6425	-5.0067
5	BKA	67.395	GE	32	9.2283	-4.9262	1.6200	-4.8624
5	BKA	67.395	Y	39	4.3725	-1.9833	.7442	-2.1078
5	BKA	67.395	ZR	40	4.6287	-2.1386	.8793	-2.3403
5	BKA	67.395	NB	41	4.8633	-2.3046	1.0354	-2.5614
5	BKA	67.395	MO	42	5.0619	-2.3983	1.1325	-2.7602
5	BKA	67.395	PD	46	5.7837	-2.7903	1.5889	-3.5333
5	BKA	67.395	AG	47	5.9734	-2.9418	1.7635	-3.7423
5	BKA	67.395	CD	48	6.1345	-2.9456	1.7974	-3.9303
5	BKA	67.395	SN	50	6.5035	-3.0960	2.0107	-4.3546
5	BKA	67.395	SB	51	6.6988	-3.1799	2.1295	-4.5807
5	BKA	67.395	CS	55	7.5573	-3.6041	2.7218	-5.5883
5	BKA	67.395	BA	56	7.7713	-3.6281	2.7938	-5.8455
5	BKA	67.395	LA	57	8.0160	-3.8096	3.0299	-6.1390
5	BKA	67.395	CE	58	8.2676	-4.0152	3.2938	-6.4427
5	BKA	67.395	HF	72	11.6137	-5.7087	6.0990	-10.8081
5	BKA	67.395	TA	73	11.8477	-5.8457	6.3338	-11.1325
5	BKA	67.395	W	74	12.0789	-5.9544	6.5415	-11.4554
5	BKA	67.395	RE	75	12.3163	-6.1012	6.7906	-11.7874
5	BKA	67.395	PT	78	13.0354	-6.4324	7.4402	-12.8015
5	BKA	67.395	AU	79	13.2949	-6.6245	7.7460	-13.1662
5	BKA	67.395	PB	82	14.0938	-6.9142	8.3900	-14.2935

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
5	BKA	67.395	TH	90	16.9432	-8.2046	10.8950	-18.2652
5	BKA	67.395	U	92	17.8691	-8.5229	11.4977	-19.4430
6	CKA	44.519	B	5	6.8116	-6.1580	.6063	-.2554
6	CKA	44.519	N	7	1.2617	-.2355	-.0342	.0081
6	CKA	44.519	O	8	1.5991	-.5294	-.0589	-.0107
6	CKA	44.519	F	9	1.9912	-.8197	-.1264	-.0449
6	CKA	44.519	NA	11	3.1654	-1.6859	-.2587	-.2192
6	CKA	44.519	MG	12	3.9578	-2.2821	-.2839	-.3888
6	CKA	44.519	AL	13	4.8321	-2.8464	-.3896	-.5911
6	CKA	44.519	SI	14	5.9005	-3.6394	-.3509	-.9022
6	CKA	44.519	P	15	7.0421	-4.3227	-.4797	-1.2283
6	CKA	44.519	S	16	8.3966	-5.3095	-.3543	-1.7164
6	CKA	44.519	CL	17	9.8083	-6.0522	-.5614	-2.1734
6	CKA	44.519	K	19	2.8805	-1.2740	-.1326	-.4705
6	CKA	44.519	CA	20	2.6757	-1.1567	-.0855	-.4302
6	CKA	44.519	SC	21	2.5641	-.9909	-.1546	-.4154
6	CKA	44.519	TI	22	2.6209	-.9935	-.1662	-.4575
6	CKA	44.519	V	23	2.7797	-1.0551	-.1803	-.5399
6	CKA	44.519	CR	24	3.0484	-1.2435	-.1243	-.6747
6	CKA	44.519	MN	25	3.3485	-1.3885	-.1225	-.8297
6	CKA	44.519	FE	26	3.7260	-1.6522	-.0286	-1.0350
6	CKA	44.519	CO	27	4.1033	-1.8298	-.0159	-1.2446
6	CKA	44.519	NI	28	4.5595	-2.1978	.1743	-1.5194
6	CKA	44.519	CU	29	4.9526	-2.2896	.1016	-1.7447
6	CKA	44.519	ZN	30	5.4085	-2.5546	.1981	-2.0278
6	CKA	44.519	GA	31	5.8356	-2.6502	.1157	-2.2730
6	CKA	44.519	GE	32	6.2963	-2.8392	.1366	-2.5609
6	CKA	44.519	Y	39	5.9048	-2.4651	.3430	-2.7435
6	CKA	44.519	ZR	40	2.3128	-.5723	-.2401	-.4937
6	CKA	44.519	NB	41	2.4127	-.6293	-.2135	-.5622
6	CKA	44.519	MO	42	2.4929	-.6518	-.2080	-.6245
6	CKA	44.519	PD	46	2.7891	-.7614	-.1380	-.8776
6	CKA	44.519	AG	47	2.8708	-.8158	-.0932	-.9487
6	CKA	44.519	CD	48	2.9300	-.7963	-.1092	-1.0104
6	CKA	44.519	SN	50	3.0770	-.8277	-.0779	-1.1550
6	CKA	44.519	SB	51	3.1550	-.8478	-.0555	-1.2342
6	CKA	44.519	CS	55	3.5007	-.9625	.0730	-1.5879
6	CKA	44.519	BA	56	3.5812	-.9497	.0692	-1.6758
6	CKA	44.519	LA	57	3.6831	-1.0133	.1394	-1.7826
6	CKA	44.519	CE	58	3.7889	-1.0885	.2232	-1.8951
6	CKA	44.519	HF	72	5.1214	-1.5632	.9980	-3.4976
6	CKA	44.519	TA	73	5.2151	-1.6052	1.0707	-3.6195
6	CKA	44.519	W	74	5.3063	-1.6333	1.1297	-3.7392
6	CKA	44.519	RE	75	5.4015	-1.6794	1.2081	-3.8642
6	CKA	44.519	PT	78	5.6840	-1.7628	1.3918	-4.2390

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
6	CKA	44.519	AU	79	5.7890	-1.8283	1.4943	-4.3782
6	CKA	44.519	PB	82	6.0981	-1.8832	1.6602	-4.7893
6	CKA	44.519	TH	90	7.2044	-2.2116	2.3769	-6.2516
6	CKA	44.519	U	92	7.5695	-2.3308	2.6257	-6.7358
7	NKA	31.633	B	5	3.3047	-2.5713	.4479	-.1801
7	NKA	31.633	C	6	4.9894	-4.2079	.4519	-.2300
7	NKA	31.633	O	8	1.1484	-.1243	-.0386	.0147
7	NKA	31.633	F	9	1.3181	-.2704	-.0483	.0007
7	NKA	31.633	NA	11	1.8598	-.6982	-.1121	-.0492
7	NKA	31.633	MG	12	2.2294	-.9889	-.1349	-.1051
7	NKA	31.633	AL	13	2.6171	-1.2488	-.1864	-.1807
7	NKA	31.633	SI	14	3.1089	-1.6277	-.1814	-.2977
7	NKA	31.633	P	15	3.6088	-1.9391	-.2368	-.4294
7	NKA	31.633	S	16	4.2236	-2.4028	-.1945	-.6209
7	NKA	31.633	CL	17	4.8332	-2.7380	-.2799	-.8077
7	NKA	31.633	K	19	6.3367	-3.7485	-.2093	-1.3647
7	NKA	31.633	CA	20	7.3318	-4.4865	-.0485	-1.7778
7	NKA	31.633	SC	21	1.6510	-.4314	-.1162	-.1027
7	NKA	31.633	TI	22	1.6740	-.4220	-.1396	-.1117
7	NKA	31.633	V	23	1.7504	-.4526	-.1562	-.1406
7	NKA	31.633	CR	24	1.8910	-.5561	-.1449	-.1887
7	NKA	31.633	MN	25	2.0363	-.6279	-.1592	-.2474
7	NKA	31.633	FE	26	2.2297	-.7681	-.1326	-.3265
7	NKA	31.633	CO	27	2.4101	-.8546	-.1406	-.4115
7	NKA	31.633	NI	28	2.6472	-1.0517	-.0675	-.5233
7	NKA	31.633	CU	29	2.8232	-1.0883	-.1077	-.6215
7	NKA	31.633	ZN	30	3.0468	-1.2267	-.0683	-.7445
7	NKA	31.633	GA	31	3.2419	-1.2755	-.0992	-.8585
7	NKA	31.633	GE	32	3.4610	-1.3763	-.0849	-.9894
7	NKA	31.633	Y	39	4.2652	-1.7448	.1127	-1.6126
7	NKA	31.633	ZR	40	3.4929	-1.2995	-.0084	-1.1703
7	NKA	31.633	NB	41	3.6879	-1.4120	.0473	-1.3062
7	NKA	31.633	MO	42	3.8752	-1.4808	.0645	-1.4397
7	NKA	31.633	PD	46	1.9301	-.3650	-.3054	-.2554
7	NKA	31.633	AG	47	1.9792	-.3902	-.3067	-.2775
7	NKA	31.633	CD	48	2.0082	-.3663	-.3400	-.2965
7	NKA	31.633	SN	50	2.0887	-.3632	-.3760	-.3431
7	NKA	31.633	SB	51	2.1318	-.3649	-.3895	-.3706
7	NKA	31.633	CS	55	2.3249	-.3948	-.4157	-.5050
7	NKA	31.633	BA	56	2.3663	-.3763	-.4400	-.5398
7	NKA	31.633	LA	57	2.4257	-.4059	-.4253	-.5836
7	NKA	31.633	CE	58	2.4879	-.4425	-.4033	-.6305
7	NKA	31.633	HF	72	3.2254	-.6041	-.2450	-1.3515
7	NKA	31.633	TA	73	3.2776	-.6214	-.2210	-1.4094
7	NKA	31.633	W	74	3.3275	-.6303	-.2045	-1.4658

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
7	NKA	31.633	RE	75	3.3807	-.6501	-.1770	-1.5255
7	NKA	31.633	PT	78	3.5347	-.6762	-.1230	-1.7039
7	NKA	31.633	AU	79	3.5941	-.7078	-.0811	-1.7722
7	NKA	31.633	PB	82	3.7593	-.7159	-.0368	-1.9695
7	NKA	31.633	TH	90	4.3533	-.8356	.2188	-2.6844
7	NKA	31.633	U	92	4.5483	-.8819	.3114	-2.9205
8	OKA	23.631	B	5	2.0143	-1.1730	.2561	-.0972
8	OKA	23.631	C	6	2.8492	-2.0156	.3038	-.1365
8	OKA	23.631	N	7	3.8348	-2.9378	.3063	-.2007
8	OKA	23.631	F	9	1.0661	-.0362	-.0506	.0209
8	OKA	23.631	NA	11	1.3537	-.2969	-.0515	-.0053
8	OKA	23.631	MG	12	1.5550	-.4664	-.0659	-.0226
8	OKA	23.631	AL	13	1.7521	-.6043	-.0991	-.0484
8	OKA	23.631	SI	14	2.0173	-.8164	-.1089	-.0916
8	OKA	23.631	P	15	2.2683	-.9755	-.1459	-.1461
8	OKA	23.631	S	16	2.5945	-1.2287	-.1373	-.2271
8	OKA	23.631	CL	17	2.8943	-1.3954	-.1826	-.3140
8	OKA	23.631	K	19	3.6646	-1.9293	-.1585	-.5717
8	OKA	23.631	CA	20	4.1183	-2.2773	-.0870	-.7470
8	OKA	23.631	SC	21	4.5075	-2.4057	-.2086	-.8842
8	OKA	23.631	TI	22	4.8401	-2.5671	-.2337	-1.0284
8	OKA	23.631	V	23	5.2287	-2.7537	-.2668	-1.1950
8	OKA	23.631	CR	24	1.4012	-.2482	-.1125	-.0401
8	OKA	23.631	MN	25	1.4816	-.2920	-.1266	-.0626
8	OKA	23.631	FE	26	1.5969	-.3813	-.1220	-.0930
8	OKA	23.631	CO	27	1.6960	-.4305	-.1379	-.1267
8	OKA	23.631	NI	28	1.8400	-.5545	-.1123	-.1720
8	OKA	23.631	CU	29	1.9288	-.5666	-.1472	-.2134
8	OKA	23.631	ZN	30	2.0560	-.6474	-.1400	-.2664
8	OKA	23.631	GA	31	2.1569	-.6680	-.1692	-.3170
8	OKA	23.631	GE	32	2.2767	-.7232	-.1740	-.3763
8	OKA	23.631	Y	39	3.2201	-1.2226	-.0511	-.9358
8	OKA	23.631	ZR	40	3.3683	-1.3000	-.0202	-1.0361
8	OKA	23.631	NB	41	3.5280	-1.3996	.0317	-1.1464
8	OKA	23.631	MO	42	3.1654	-1.1644	-.0400	-.9497
8	OKA	23.631	PD	46	2.9982	-1.0125	-.0780	-.8964
8	OKA	23.631	AG	47	3.1361	-1.0977	-.0325	-.9931
8	OKA	23.631	CD	48	3.2510	-1.1057	-.0511	-1.0800
8	OKA	23.631	SN	50	1.6151	-.2133	-.2817	-.1181
8	OKA	23.631	SB	51	1.6427	-.2150	-.2955	-.1299
8	OKA	23.631	CS	55	1.7673	-.2343	-.3434	-.1862
8	OKA	23.631	BA	56	1.7915	-.2184	-.3698	-.1995
8	OKA	23.631	LA	57	1.8312	-.2373	-.3720	-.2178
8	OKA	23.631	CE	58	1.8732	-.2604	-.3712	-.2372
8	OKA	23.631	HF	72	2.3333	-.2579	-.5701	-.4935

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
8	OKA	23.631	TA	73	2.3662	-.2617	-.5751	-.5170
8	OKA	23.631	W	74	2.3969	-.2599	-.5840	-.5402
8	OKA	23.631	RE	75	2.4305	-.2655	-.5861	-.5654
8	OKA	23.631	PT	78	2.5247	-.2588	-.6084	-.6421
8	OKA	23.631	AU	79	2.5626	-.2722	-.6016	-.6728
8	OKA	23.631	PB	82	2.6621	-.2540	-.6284	-.7614
8	OKA	23.631	TH	90	3.0229	-.2669	-.6222	-1.1077
8	OKA	23.631	U	92	3.1409	-.2799	-.6041	-1.2281
9	FKA	18.316	B	5	1.5026	-.5988	.1417	-.0456
9	FKA	18.316	C	6	1.9748	-1.0859	.1695	-.0583
9	FKA	18.316	N	7	2.5128	-1.6096	.1898	-.0924
9	FKA	18.316	O	8	3.1591	-2.2060	.1927	-.1441
9	FKA	18.316	NA	11	1.1538	-.1263	-.0401	.0128
9	FKA	18.316	MG	12	1.2787	-.2485	-.0315	.0014
9	FKA	18.316	AL	13	1.3900	-.3395	-.0411	-.0093
9	FKA	18.316	SI	14	1.5532	-.4815	-.0477	-.0240
9	FKA	18.316	P	15	1.6942	-.5793	-.0699	-.0448
9	FKA	18.316	S	16	1.8923	-.7425	-.0729	-.0766
9	FKA	18.316	CL	17	2.0573	-.8404	-.1002	-.1162
9	FKA	18.316	K	19	2.5076	-1.1710	-.0977	-.2374
9	FKA	18.316	CA	20	2.7776	-1.3876	-.0655	-.3222
9	FKA	18.316	SC	21	2.9803	-1.4585	-.1173	-.4013
9	FKA	18.316	TI	22	3.2428	-1.6132	-.1243	-.5010
9	FKA	18.316	V	23	3.5209	-1.7711	-.1327	-.6115
9	FKA	18.316	CR	24	3.6515	-1.8826	-.0726	-.6899
9	FKA	18.316	MN	25	3.8983	-2.0177	-.0688	-.8039
9	FKA	18.316	FE	26	1.3125	-.2152	-.0837	-.0134
9	FKA	18.316	CO	27	1.3730	-.2544	-.0884	-.0298
9	FKA	18.316	NI	28	1.4719	-.3480	-.0740	-.0495
9	FKA	18.316	CU	29	1.5205	-.3570	-.0948	-.0682
9	FKA	18.316	ZN	30	1.6024	-.4161	-.0945	-.0912
9	FKA	18.316	GA	31	1.6602	-.4300	-.1156	-.1136
9	FKA	18.316	GE	32	1.7342	-.4689	-.1243	-.1400
9	FKA	18.316	Y	39	2.3246	-.8129	-.0965	-.4113
9	FKA	18.316	ZR	40	2.4166	-.8656	-.0835	-.4631
9	FKA	18.316	NB	41	2.5175	-.9335	-.0583	-.5205
9	FKA	18.316	MO	42	2.6083	-.9733	-.0516	-.5775
9	FKA	18.316	PD	46	2.6885	-.9824	-.0429	-.6560
9	FKA	18.316	AG	47	2.8048	-1.0614	-.0043	-.7307
9	FKA	18.316	CD	48	2.3551	-.7534	-.1165	-.4798
9	FKA	18.316	SN	50	2.5198	-.8168	-.1084	-.5877
9	FKA	18.316	SB	51	2.6072	-.8514	-.1008	-.6471
9	FKA	18.316	CS	55	1.4824	-.1915	-.2294	-.0603
9	FKA	18.316	BA	56	1.4974	-.1812	-.2488	-.0661
9	FKA	18.316	LA	57	1.5268	-.1989	-.2509	-.0755

APPENDIX

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
9	FKA	18.316	CE	58	1.5581	-.2202	-.2505	-.0857
9	FKA	18.316	HF	72	1.8877	-.2769	-.3748	-.2312
9	FKA	18.316	TA	73	1.9113	-.2814	-.3824	-.2425
9	FKA	18.316	W	74	1.9329	-.2809	-.3935	-.2532
9	FKA	18.316	RE	75	1.9570	-.2858	-.4009	-.2647
9	FKA	18.316	PT	78	2.0226	-.2796	-.4398	-.2966
9	FKA	18.316	AU	79	2.0499	-.2879	-.4460	-.3089
9	FKA	18.316	PB	82	2.1157	-.2585	-.5144	-.3343
9	FKA	18.316	TH	90	2.3592	-.2297	-.6419	-.4742
9	FKA	18.316	U	92	2.4385	-.2281	-.6668	-.5286
11	NAKA	11.909	B	5	1.1092	-.1411	.0468	-.0150
11	NAKA	11.909	C	6	1.2907	-.3343	.0608	-.0173
11	NAKA	11.909	N	7	1.4741	-.5227	.0713	-.0227
11	NAKA	11.909	O	8	1.6976	-.7386	.0736	-.0326
11	NAKA	11.909	F	9	1.9178	-.9325	.0722	-.0573
11	NAKA	11.909	MG	12	1.0259	.0403	-.1237	.0580
11	NAKA	11.909	AL	13	1.0674	-.0308	-.0622	.0258
11	NAKA	11.909	SI	14	1.1425	-.1183	-.0350	.0109
11	NAKA	11.909	P	15	1.1905	-.1653	-.0273	.0021
11	NAKA	11.909	S	16	1.2771	-.2482	-.0247	-.0041
11	NAKA	11.909	CL	17	1.3300	-.2829	-.0367	-.0103
11	NAKA	11.909	K	19	1.5102	-.4271	-.0528	-.0301
11	NAKA	11.909	CA	20	1.6247	-.5248	-.0538	-.0459
11	NAKA	11.909	SC	21	1.6814	-.5321	-.0862	-.0628
11	NAKA	11.909	TI	22	1.7771	-.5879	-.1033	-.0854
11	NAKA	11.909	V	23	1.8779	-.6439	-.1211	-.1124
11	NAKA	11.909	CR	24	2.0145	-.7522	-.1124	-.1491
11	NAKA	11.909	MN	25	2.1290	-.8164	-.1242	-.1873
11	NAKA	11.909	FE	26	2.2799	-.9378	-.1036	-.2368
11	NAKA	11.909	CO	27	2.4039	-1.0042	-.1113	-.2863
11	NAKA	11.909	NI	28	2.5842	-1.1684	-.0598	-.3532
11	NAKA	11.909	CU	29	2.4900	-1.0476	-.1024	-.3374
11	NAKA	11.909	ZN	30	1.1705	-.1255	-.0380	-.0070
11	NAKA	11.909	GA	31	1.1701	-.0834	-.0926	.0062
11	NAKA	11.909	GE	32	1.2019	-.1088	-.0904	-.0026
11	NAKA	11.909	Y	39	1.4672	-.2939	-.1120	-.0609
11	NAKA	11.909	ZR	40	1.5083	-.3190	-.1168	-.0719
11	NAKA	11.909	NB	41	1.5551	-.3525	-.1170	-.0848
11	NAKA	11.909	MO	42	1.5932	-.3687	-.1263	-.0974
11	NAKA	11.909	PD	46	1.7727	-.4598	-.1467	-.1647
11	NAKA	11.909	AG	47	1.8298	-.5001	-.1403	-.1877
11	NAKA	11.909	CD	48	1.8668	-.4979	-.1595	-.2075
11	NAKA	11.909	SN	50	1.9660	-.5341	-.1722	-.2571
11	NAKA	11.909	SB	51	2.0188	-.5543	-.1764	-.2852
11	NAKA	11.909	CS	55	1.8884	-.4500	-.2037	-.2322

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
11	NAKA	11.909	BA	56	1.7965	-.3775	-.2243	-.1925
11	NAKA	11.909	LA	57	1.8493	-.4105	-.2193	-.2171
11	NAKA	11.909	CE	58	1.9054	-.4487	-.2099	-.2440
11	NAKA	11.909	HF	72	1.3521	-.0787	-.2615	-.0110
11	NAKA	11.909	TA	73	1.3649	-.0826	-.2679	-.0134
11	NAKA	11.909	W	74	1.3763	-.0833	-.2765	-.0155
11	NAKA	11.909	RE	75	1.3896	-.0878	-.2824	-.0182
11	NAKA	11.909	PT	78	1.4242	-.0887	-.3091	-.0251
11	NAKA	11.909	AU	79	1.4400	-.0967	-.3129	-.0290
11	NAKA	11.909	PB	82	1.4745	-.0891	-.3468	-.0368
11	NAKA	11.909	TH	90	1.6048	-.0929	-.4302	-.0789
11	NAKA	11.909	U	92	1.6472	-.0967	-.4512	-.0961
12	MGKA	9.892	B	5	1.0310	-.0495	.0277	-.0093
12	MGKA	9.892	C	6	1.1539	-.1808	.0386	-.0118
12	MGKA	9.892	N	7	1.2656	-.2990	.0481	-.0147
12	MGKA	9.892	O	8	1.4039	-.4358	.0504	-.0186
12	MGKA	9.892	F	9	1.5314	-.5488	.0470	-.0296
12	MGKA	9.892	NA	11	1.9188	-.8829	.0264	-.0619
12	MGKA	9.892	AL	13	.9830	.0967	-.1476	.0686
12	MGKA	9.892	SI	14	1.0416	.0050	-.0814	.0351
12	MGKA	9.892	P	15	1.0722	-.0431	-.0439	.0149
12	MGKA	9.892	S	16	1.1350	-.1131	-.0273	.0054
12	MGKA	9.892	CL	17	1.1646	-.1371	-.0274	-.0001
12	MGKA	9.892	K	19	1.2855	-.2409	-.0357	-.0089
12	MGKA	9.892	CA	20	1.3652	-.3119	-.0380	-.0153
12	MGKA	9.892	SC	21	1.3922	-.3068	-.0639	-.0214
12	MGKA	9.892	TI	22	1.4526	-.3414	-.0806	-.0305
12	MGKA	9.892	V	23	1.5164	-.3755	-.0989	-.0419
12	MGKA	9.892	CR	24	1.6103	-.4513	-.1000	-.0587
12	MGKA	9.892	MN	25	1.6836	-.4905	-.1163	-.0764
12	MGKA	9.892	FE	26	1.7874	-.5748	-.1113	-.1008
12	MGKA	9.892	CO	27	1.8665	-.6141	-.1264	-.1253
12	MGKA	9.892	NI	28	1.9933	-.7302	-.1020	-.1601
12	MGKA	9.892	CU	29	2.0566	-.7323	-.1346	-.1884
12	MGKA	9.892	ZN	30	2.1631	-.8056	-.1286	-.2274
12	MGKA	9.892	GA	31	2.0770	-.7116	-.1547	-.2093
12	MGKA	9.892	GE	32	2.1614	-.7535	-.1620	-.2441
12	MGKA	9.892	Y	39	1.2510	-.1348	-.0994	-.0166
12	MGKA	9.892	ZR	40	1.2799	-.1540	-.1041	-.0215
12	MGKA	9.892	NB	41	1.3135	-.1797	-.1062	-.0273
12	MGKA	9.892	MO	42	1.3393	-.1908	-.1158	-.0324
12	MGKA	9.892	PD	46	1.4632	-.2535	-.1476	-.0616
12	MGKA	9.892	AG	47	1.5041	-.2828	-.1481	-.0725
12	MGKA	9.892	CD	48	1.5272	-.2774	-.1684	-.0807
12	MGKA	9.892	SN	50	1.5944	-.2989	-.1907	-.1037

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
12	MGKA	9.892	SB	51	1.6304	-.3111	-.2010	-.1172
12	MGKA	9.892	CS	55	1.7927	-.3754	-.2296	-.1858
12	MGKA	9.892	BA	56	1.7030	-.3065	-.2447	-.1501
12	MGKA	9.892	LA	57	1.7506	-.3359	-.2425	-.1704
12	MGKA	9.892	CE	58	1.6525	-.2898	-.2316	-.1295
12	MGKA	9.892	HF	72	1.1922	.0157	-.2282	.0208
12	MGKA	9.892	TA	73	1.2016	.0129	-.2342	.0203
12	MGKA	9.892	W	74	1.2097	.0127	-.2420	.0201
12	MGKA	9.892	RE	75	1.2197	.0093	-.2478	.0194
12	MGKA	9.892	PT	78	1.2447	.0099	-.2724	.0186
12	MGKA	9.892	AU	79	1.2567	.0035	-.2765	.0170
12	MGKA	9.892	PB	82	1.2811	.0113	-.3078	.0163
12	MGKA	9.892	TH	90	1.3765	.0124	-.3896	.0022
12	MGKA	9.892	U	92	1.4079	.0105	-.4114	-.0052
13	ALKA	8.343	B	5	1.0129	-.0215	.0138	-.0053
13	ALKA	8.343	C	6	1.1039	-.1181	.0215	-.0073
13	ALKA	8.343	N	7	1.1752	-.1971	.0308	-.0090
13	ALKA	8.343	O	8	1.2652	-.2900	.0350	-.0102
13	ALKA	8.343	F	9	1.3398	-.3603	.0356	-.0150
13	ALKA	8.343	NA	11	1.6007	-.5931	.0198	-.0273
13	ALKA	8.343	MG	12	1.7846	-.7563	.0114	-.0395
13	ALKA	8.343	SI	14	.9932	.1116	-.1943	.0902
13	ALKA	8.343	P	15	1.0181	.0391	-.1006	.0437
13	ALKA	8.343	S	16	1.0701	-.0367	-.0546	.0215
13	ALKA	8.343	CL	17	1.0881	-.0654	-.0312	.0086
13	ALKA	8.343	K	19	1.1763	-.1549	-.0204	-.0010
13	ALKA	8.343	CA	20	1.2361	-.2126	-.0193	-.0042
13	ALKA	8.343	SC	21	1.2456	-.2040	-.0346	-.0070
13	ALKA	8.343	TI	22	1.2853	-.2290	-.0455	-.0108
13	ALKA	8.343	V	23	1.3274	-.2534	-.0585	-.0156
13	ALKA	8.343	CR	24	1.3964	-.3124	-.0608	-.0231
13	ALKA	8.343	MN	25	1.4457	-.3404	-.0740	-.0311
13	ALKA	8.343	FE	26	1.5220	-.4056	-.0735	-.0428
13	ALKA	8.343	CO	27	1.5752	-.4332	-.0872	-.0546
13	ALKA	8.343	NI	28	1.6708	-.5234	-.0751	-.0720
13	ALKA	8.343	CU	29	1.7085	-.5201	-.1016	-.0863
13	ALKA	8.343	ZN	30	1.7845	-.5745	-.1026	-.1068
13	ALKA	8.343	GA	31	1.8345	-.5820	-.1259	-.1259
13	ALKA	8.343	GE	32	1.9040	-.6185	-.1349	-.1497
13	ALKA	8.343	Y	39	1.1367	-.0609	-.0764	.0007
13	ALKA	8.343	ZR	40	1.1587	-.0799	-.0757	-.0030
13	ALKA	8.343	NB	41	1.1848	-.1036	-.0742	-.0068
13	ALKA	8.343	MO	42	1.2034	-.1144	-.0793	-.0096
13	ALKA	8.343	PD	46	1.2942	-.1691	-.1018	-.0230
13	ALKA	8.343	AG	47	1.3252	-.1935	-.1032	-.0283

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
13	ALKA	8.343	CD	48	1.3400	-.1887	-.1196	-.0314
13	ALKA	8.343	SN	50	1.3878	-.2058	-.1399	-.0416
13	ALKA	8.343	SB	51	1.4136	-.2154	-.1498	-.0479
13	ALKA	8.343	CS	55	1.5314	-.2659	-.1829	-.0817
13	ALKA	8.343	BA	56	1.5545	-.2626	-.2007	-.0902
13	ALKA	8.343	LA	57	1.5932	-.2880	-.2008	-.1033
13	ALKA	8.343	CE	58	1.6345	-.3174	-.1979	-.1180
13	ALKA	8.343	HF	72	1.1096	.0339	-.1683	.0250
13	ALKA	8.343	TA	73	1.1168	.0313	-.1729	.0251
13	ALKA	8.343	W	74	1.1228	.0311	-.1791	.0256
13	ALKA	8.343	RE	75	1.1304	.0278	-.1835	.0255
13	ALKA	8.343	PT	78	1.1488	.0278	-.2031	.0268
13	ALKA	8.343	AU	79	1.1584	.0219	-.2061	.0262
13	ALKA	8.343	PB	82	1.1759	.0280	-.2314	.0280
13	ALKA	8.343	TH	90	1.2477	.0262	-.2989	.0258
13	ALKA	8.343	U	92	1.2716	.0237	-.3175	.0231
14	SIKA	7.129	B	5	.9825	.0126	.0079	-.0031
14	SIKA	7.129	C	6	1.0522	-.0603	.0133	-.0052
14	SIKA	7.129	N	7	1.0969	-.1113	.0211	-.0068
14	SIKA	7.129	O	8	1.1546	-.1725	.0255	-.0077
14	SIKA	7.129	F	9	1.1942	-.2111	.0271	-.0102
14	SIKA	7.129	NA	11	1.3691	-.3700	.0156	-.0148
14	SIKA	7.129	MG	12	1.4973	-.4855	.0079	-.0195
14	SIKA	7.129	AL	13	1.5890	-.5549	-.0049	-.0291
14	SIKA	7.129	P	15	.9512	.1633	-.2104	.0968
14	SIKA	7.129	S	16	.9979	.0714	-.1224	.0535
14	SIKA	7.129	CL	17	1.0110	.0287	-.0647	.0251
14	SIKA	7.129	K	19	1.0791	-.0592	-.0250	.0051
14	SIKA	7.129	CA	20	1.1253	-.1082	-.0185	.0014
14	SIKA	7.129	SC	21	1.1239	-.0965	-.0268	-.0005
14	SIKA	7.129	TI	22	1.1496	-.1133	-.0341	-.0022
14	SIKA	7.129	V	23	1.1767	-.1289	-.0440	-.0039
14	SIKA	7.129	CR	24	1.2276	-.1741	-.0463	-.0073
14	SIKA	7.129	MN	25	1.2600	-.1921	-.0576	-.0104
14	SIKA	7.129	FE	26	1.3164	-.2416	-.0589	-.0158
14	SIKA	7.129	CO	27	1.3514	-.2588	-.0719	-.0207
14	SIKA	7.129	NI	28	1.4239	-.3287	-.0657	-.0294
14	SIKA	7.129	CU	29	1.4444	-.3193	-.0898	-.0352
14	SIKA	7.129	ZN	30	1.4986	-.3583	-.0950	-.0451
14	SIKA	7.129	GA	31	1.5294	-.3579	-.1176	-.0536
14	SIKA	7.129	GE	32	1.5771	-.3815	-.1299	-.0653
14	SIKA	7.129	Y	39	1.0301	.0468	-.0944	.0177
14	SIKA	7.129	ZR	40	1.0476	.0267	-.0863	.0122
14	SIKA	7.129	NB	41	1.0684	.0036	-.0797	.0078
14	SIKA	7.129	MO	42	1.0822	-.0076	-.0795	.0049

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
14	SIKA	7.129	PD	46	1.1497	-.0554	-.0914	-.0027
14	SIKA	7.129	AG	47	1.1734	-.0754	-.0927	-.0052
14	SIKA	7.129	CD	48	1.1823	-.0700	-.1066	-.0056
14	SIKA	7.129	SN	50	1.2160	-.0816	-.1253	-.0089
14	SIKA	7.129	SB	51	1.2343	-.0880	-.1349	-.0111
14	SIKA	7.129	CS	55	1.3189	-.1228	-.1707	-.0250
14	SIKA	7.129	BA	56	1.3341	-.1178	-.1880	-.0278
14	SIKA	7.129	LA	57	1.3630	-.1370	-.1912	-.0343
14	SIKA	7.129	CE	58	1.3941	-.1594	-.1923	-.0418
14	SIKA	7.129	HF	72	1.1461	.0271	-.1907	.0179
14	SIKA	7.129	TA	73	1.1583	.0220	-.1970	.0170
14	SIKA	7.129	W	74	1.0353	.0959	-.1627	.0318
14	SIKA	7.129	RE	75	1.0411	.0936	-.1666	.0322
14	SIKA	7.129	PT	78	1.0541	.0952	-.1839	.0348
14	SIKA	7.129	AU	79	1.0616	.0905	-.1866	.0348
14	SIKA	7.129	PB	82	1.0735	.0976	-.2091	.0383
14	SIKA	7.129	TH	90	1.1258	.1007	-.2698	.0438
14	SIKA	7.129	U	92	1.1435	.0998	-.2868	.0441
15	PKA	6.160	B	5	.9915	.0086	.0016	-.0017
15	PKA	6.160	C	6	1.0497	-.0508	.0048	-.0036
15	PKA	6.160	N	7	1.0787	-.0858	.0119	-.0048
15	PKA	6.160	O	8	1.1171	-.1286	.0169	-.0055
15	PKA	6.160	F	9	1.1350	-.1494	.0211	-.0068
15	PKA	6.160	NA	11	1.2580	-.2660	.0158	-.0077
15	PKA	6.160	MG	12	1.3528	-.3545	.0104	-.0087
15	PKA	6.160	AL	13	1.4145	-.4035	.0016	-.0126
15	PKA	6.160	SI	14	1.5184	-.4970	-.0047	-.0167
15	PKA	6.160	S	16	.9604	.1877	-.2714	.1244
15	PKA	6.160	CL	17	.9760	.1083	-.1487	.0649
15	PKA	6.160	K	19	1.0388	-.0089	-.0467	.0169
15	PKA	6.160	CA	20	1.0791	-.0606	-.0264	.0080
15	PKA	6.160	SC	21	1.0722	-.0544	-.0207	.0030
15	PKA	6.160	TI	22	1.0901	-.0701	-.0207	.0007
15	PKA	6.160	V	23	1.1085	-.0830	-.0249	-.0006
15	PKA	6.160	CR	24	1.1488	-.1213	-.0251	-.0024
15	PKA	6.160	MN	25	1.1709	-.1351	-.0321	-.0038
15	PKA	6.160	FE	26	1.2152	-.1763	-.0326	-.0064
15	PKA	6.160	CO	27	1.2389	-.1889	-.0414	-.0086
15	PKA	6.160	NI	28	1.2974	-.2474	-.0372	-.0129
15	PKA	6.160	CU	29	1.3068	-.2367	-.0546	-.0153
15	PKA	6.160	ZN	30	1.3475	-.2682	-.0589	-.0202
15	PKA	6.160	GA	31	1.3662	-.2657	-.0762	-.0242
15	PKA	6.160	GE	32	1.4004	-.2840	-.0863	-.0300
15	PKA	6.160	Y	39	1.0240	.0048	-.0310	.0022
15	PKA	6.160	ZR	40	1.0338	-.0022	-.0337	.0021

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
15	PKA	6.160	NB	41	1.0089	.0640	-.0963	.0236
15	PKA	6.160	MO	42	1.0210	.0466	-.0843	.0168
15	PKA	6.160	PD	46	1.0776	-.0131	-.0677	.0033
15	PKA	6.160	AG	47	1.0974	-.0329	-.0656	.0012
15	PKA	6.160	CD	48	1.1031	-.0300	-.0739	.0010
15	PKA	6.160	SN	50	1.1285	-.0423	-.0858	-.0003
15	PKA	6.160	SB	51	1.1423	-.0485	-.0926	-.0011
15	PKA	6.160	CS	55	1.2065	-.0798	-.1198	-.0067
15	PKA	6.160	BA	56	1.2167	-.0755	-.1337	-.0073
15	PKA	6.160	LA	57	1.2394	-.0920	-.1365	-.0106
15	PKA	6.160	CE	58	1.2642	-.1115	-.1379	-.0146
15	PKA	6.160	HF	72	1.3195	-.0995	-.2003	-.0192
15	PKA	6.160	TA	73	1.3374	-.1076	-.2063	-.0228
15	PKA	6.160	W	74	1.3540	-.1129	-.2141	-.0263
15	PKA	6.160	RE	75	1.3729	-.1220	-.2195	-.0306
15	PKA	6.160	PT	78	1.0151	.0945	-.1388	.0293
15	PKA	6.160	AU	79	1.0213	.0901	-.1406	.0294
15	PKA	6.160	PB	82	1.0292	.0967	-.1584	.0328
15	PKA	6.160	TH	90	1.0680	.0990	-.2062	.0396
15	PKA	6.160	U	92	1.0814	.0980	-.2197	.0407
16	SKA	5.374	B	5	.9764	.0241	.0000	-.0006
16	SKA	5.374	C	6	1.0259	-.0254	.0018	-.0023
16	SKA	5.374	N	7	1.0440	-.0481	.0076	-.0035
16	SKA	5.374	O	8	1.0689	-.0767	.0120	-.0042
16	SKA	5.374	F	9	1.0719	-.0829	.0162	-.0052
16	SKA	5.374	NA	11	1.1569	-.1650	.0135	-.0054
16	SKA	5.374	MG	12	1.2268	-.2314	.0099	-.0053
16	SKA	5.374	AL	13	1.2666	-.2632	.0036	-.0070
16	SKA	5.374	SI	14	1.3449	-.3352	-.0008	-.0088
16	SKA	5.374	P	15	1.3954	-.3709	-.0116	-.0129
16	SKA	5.374	CL	17	.9173	.2376	-.2818	.1280
16	SKA	5.374	K	19	.9804	.0785	-.0988	.0402
16	SKA	5.374	CA	20	1.0177	.0179	-.0568	.0213
16	SKA	5.374	SC	21	1.0095	.0143	-.0331	.0094
16	SKA	5.374	TI	22	1.0229	-.0030	-.0243	.0044
16	SKA	5.374	V	23	1.0358	-.0148	-.0232	.0022
16	SKA	5.374	CR	24	1.0684	-.0478	-.0213	.0007
16	SKA	5.374	MN	25	1.0832	-.0575	-.0258	-.0000
16	SKA	5.374	FE	26	1.1183	-.0912	-.0256	-.0014
16	SKA	5.374	CO	27	1.1336	-.0988	-.0326	-.0022
16	SKA	5.374	NI	28	1.1810	-.1471	-.0294	-.0045
16	SKA	5.374	CU	29	1.1824	-.1336	-.0438	-.0050
16	SKA	5.374	ZN	30	1.2125	-.1575	-.0478	-.0072
16	SKA	5.374	GA	31	1.2223	-.1514	-.0624	-.0084
16	SKA	5.374	GE	32	1.2462	-.1637	-.0716	-.0109

APPENDIX

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
16	SKA	5.374	Y	39	1.3946	-.2520	-.1085	-.0339
16	SKA	5.374	ZR	40	1.4183	-.2657	-.1136	-.0387
16	SKA	5.374	NB	41	.9947	.0348	-.0331	.0036
16	SKA	5.374	MO	42	.9985	.0349	-.0373	.0039
16	SKA	5.374	PD	46	.9971	.0687	-.0780	.0123
16	SKA	5.374	AG	47	1.0142	.0483	-.0716	.0092
16	SKA	5.374	CD	48	1.0181	.0485	-.0747	.0082
16	SKA	5.374	SN	50	1.0381	.0354	-.0803	.0069
16	SKA	5.374	SB	51	1.0487	.0295	-.0848	.0067
16	SKA	5.374	CS	55	1.0975	.0038	-.1070	.0058
16	SKA	5.374	BA	56	1.1040	.0086	-.1191	.0066
16	SKA	5.374	LA	57	1.1218	-.0049	-.1220	.0052
16	SKA	5.374	CE	58	1.1414	-.0209	-.1236	.0033
16	SKA	5.374	HF	72	1.2300	-.0333	-.1955	-.0008
16	SKA	5.374	TA	73	1.2450	-.0399	-.2017	-.0030
16	SKA	5.374	W	74	1.2589	-.0440	-.2096	-.0049
16	SKA	5.374	RE	75	1.2216	-.0227	-.2011	.0026
16	SKA	5.374	PT	78	1.2608	-.0329	-.2252	-.0023
16	SKA	5.374	AU	79	1.0641	.0752	-.1647	.0257
16	SKA	5.374	PB	82	.9722	.1425	-.1489	.0344
16	SKA	5.374	TH	90	.9997	.1492	-.1914	.0428
16	SKA	5.374	U	92	1.0095	.1494	-.2033	.0446
17	CLKA	4.728	B	5	.9978	.0066	-.0044	-.0000
17	CLKA	4.728	C	6	1.0431	-.0371	-.0043	-.0016
17	CLKA	4.728	N	7	1.0544	-.0528	.0007	-.0024
17	CLKA	4.728	O	8	1.0709	-.0730	.0049	-.0028
17	CLKA	4.728	F	9	1.0639	-.0711	.0105	-.0033
17	CLKA	4.728	NA	11	1.1253	-.1332	.0111	-.0031
17	CLKA	4.728	MG	12	1.1801	-.1867	.0093	-.0027
17	CLKA	4.728	AL	13	1.2056	-.2093	.0072	-.0036
17	CLKA	4.728	SI	14	1.2681	-.2685	.0043	-.0038
17	CLKA	4.728	P	15	1.3013	-.2937	-.0021	-.0055
17	CLKA	4.728	S	16	1.3688	-.3556	-.0064	-.0067
17	CLKA	4.728	K	19	.9537	.1686	-.2151	.0935
17	CLKA	4.728	CA	20	.9939	.0830	-.1308	.0543
17	CLKA	4.728	SC	21	.9891	.0533	-.0681	.0258
17	CLKA	4.728	TI	22	1.0027	.0234	-.0387	.0126
17	CLKA	4.728	V	23	1.0141	.0046	-.0247	.0061
17	CLKA	4.728	CR	24	1.0436	-.0296	-.0169	.0029
17	CLKA	4.728	MN	25	1.0548	-.0402	-.0159	.0013
17	CLKA	4.728	FE	26	1.0849	-.0713	-.0137	.0001
17	CLKA	4.728	CO	27	1.0953	-.0777	-.0171	-.0005
17	CLKA	4.728	NI	28	1.1363	-.1206	-.0140	-.0017
17	CLKA	4.728	CU	29	1.1323	-.1069	-.0234	-.0020
17	CLKA	4.728	ZN	30	1.1560	-.1273	-.0254	-.0033

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
17	CLKA	4.728	GA	31	1.1597	-.1205	-.0353	-.0039
17	CLKA	4.728	GE	32	1.1769	-.1302	-.0416	-.0051
17	CLKA	4.728	Y	39	1.3493	-.2474	-.0772	-.0247
17	CLKA	4.728	ZR	40	1.3706	-.2608	-.0815	-.0283
17	CLKA	4.728	NB	41	1.3373	-.2393	-.0740	-.0239
17	CLKA	4.728	MO	42	1.3578	-.2481	-.0821	-.0275
17	CLKA	4.728	PD	46	.9593	.1138	-.0987	.0258
17	CLKA	4.728	AG	47	.9763	.0875	-.0827	.0190
17	CLKA	4.728	CD	48	.9805	.0800	-.0747	.0143
17	CLKA	4.728	SN	50	.9994	.0575	-.0657	.0089
17	CLKA	4.728	SB	51	1.0089	.0484	-.0648	.0076
17	CLKA	4.728	CS	55	1.0506	.0166	-.0730	.0059
17	CLKA	4.728	BA	56	1.0550	.0198	-.0815	.0068
17	CLKA	4.728	LA	57	1.0702	.0068	-.0829	.0060
17	CLKA	4.728	CE	58	1.0868	-.0082	-.0835	.0050
17	CLKA	4.728	HF	72	1.2615	-.0867	-.1644	-.0100
17	CLKA	4.728	TA	73	1.2278	-.0655	-.1581	-.0038
17	CLKA	4.728	W	74	1.2405	-.0700	-.1648	-.0054
17	CLKA	4.728	RE	75	1.1915	-.0401	-.1539	.0027
17	CLKA	4.728	PT	78	1.2259	-.0512	-.1738	-.0006
17	CLKA	4.728	AU	79	1.1937	-.0333	-.1649	.0048
17	CLKA	4.728	PB	82	1.0463	.0685	-.1377	.0231
17	CLKA	4.728	TH	90	.9804	.1315	-.1455	.0337
17	CLKA	4.728	U	92	.9877	.1318	-.1547	.0354
19	KKA	3.740	B	5	.9983	.0066	-.0055	.0006
19	KKA	3.740	C	6	1.0375	-.0296	-.0074	-.0006
19	KKA	3.740	N	7	1.0407	-.0358	-.0037	-.0012
19	KKA	3.740	O	8	1.0469	-.0448	-.0006	-.0015
19	KKA	3.740	F	9	1.0280	-.0310	.0047	-.0017
19	KKA	3.740	NA	11	1.0592	-.0641	.0068	-.0018
19	KKA	3.740	MG	12	1.0940	-.0988	.0066	-.0018
19	KKA	3.740	AL	13	1.1011	-.1061	.0074	-.0024
19	KKA	3.740	SI	14	1.1418	-.1457	.0060	-.0021
19	KKA	3.740	P	15	1.1524	-.1536	.0032	-.0020
19	KKA	3.740	S	16	1.1959	-.1951	.0009	-.0018
19	KKA	3.740	CL	17	1.2044	-.1980	-.0037	-.0028
19	KKA	3.740	CA	20	.8917	.3519	-.4355	.1935
19	KKA	3.740	SC	21	.9032	.2443	-.2569	.1103
19	KKA	3.740	TI	22	.9250	.1666	-.1542	.0631
19	KKA	3.740	V	23	.9414	.1143	-.0895	.0341
19	KKA	3.740	CR	24	.9709	.0637	-.0533	.0188
19	KKA	3.740	MN	25	.9816	.0405	-.0317	.0096
19	KKA	3.740	FE	26	1.0077	.0068	-.0196	.0052
19	KKA	3.740	CO	27	1.0138	-.0016	-.0150	.0028
19	KKA	3.740	NI	28	1.0470	-.0383	-.0105	.0018

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
19	KKA	3.740	CU	29	1.0376	-.0248	-.0142	.0013
19	KKA	3.740	ZN	30	1.0530	-.0393	-.0144	.0007
19	KKA	3.740	GA	31	1.0493	-.0299	-.0201	.0006
19	KKA	3.740	GE	32	1.0576	-.0344	-.0235	.0003
19	KKA	3.740	Y	39	1.1551	-.1045	-.0460	-.0046
19	KKA	3.740	ZR	40	1.1678	-.1130	-.0493	-.0055
19	KKA	3.740	NB	41	1.1879	-.1295	-.0512	-.0071
19	KKA	3.740	MO	42	1.2002	-.1343	-.0577	-.0081
19	KKA	3.740	PD	46	1.1319	-.0745	-.0543	-.0030
19	KKA	3.740	AG	47	.9694	.0520	-.0246	.0032
19	KKA	3.740	CD	48	.9636	.0623	-.0302	.0041
19	KKA	3.740	SN	50	.9656	.0662	-.0370	.0052
19	KKA	3.740	SB	51	.9674	.0672	-.0403	.0057
19	KKA	3.740	CS	55	.9474	.1086	-.0667	.0108
19	KKA	3.740	BA	56	.9509	.1067	-.0679	.0104
19	KKA	3.740	LA	57	.9633	.0927	-.0655	.0096
19	KKA	3.740	CE	58	.9767	.0781	-.0637	.0090
19	KKA	3.740	HF	72	1.0884	.0193	-.1188	.0112
19	KKA	3.740	TA	73	1.0979	.0143	-.1229	.0108
19	KKA	3.740	W	74	1.1063	.0115	-.1282	.0106
19	KKA	3.740	RE	75	1.1166	.0058	-.1322	.0100
19	KKA	3.740	PT	78	1.1087	.0183	-.1393	.0124
19	KKA	3.740	AU	79	1.1202	.0105	-.1420	.0115
19	KKA	3.740	PB	82	1.0960	.0368	-.1488	.0163
19	KKA	3.740	TH	90	.9912	.1225	-.1423	.0287
19	KKA	3.740	U	92	.9277	.1680	-.1267	.0312
20	CAKA	3.357	B	5	.9892	.0145	-.0048	.0011
20	CAKA	3.357	C	6	1.0264	-.0195	-.0070	.0001
20	CAKA	3.357	N	7	1.0272	-.0229	-.0038	-.0005
20	CAKA	3.357	O	8	1.0304	-.0284	-.0010	-.0009
20	CAKA	3.357	F	9	1.0083	-.0109	.0039	-.0012
20	CAKA	3.357	NA	11	1.0303	-.0347	.0061	-.0017
20	CAKA	3.357	MG	12	1.0590	-.0630	.0058	-.0017
20	CAKA	3.357	AL	13	1.0604	-.0650	.0068	-.0022
20	CAKA	3.357	SI	14	1.0941	-.0978	.0055	-.0019
20	CAKA	3.357	P	15	1.0978	-.0998	.0037	-.0017
20	CAKA	3.357	S	16	1.1334	-.1341	.0020	-.0014
20	CAKA	3.357	CL	17	1.1346	-.1313	-.0014	-.0018
20	CAKA	3.357	K	19	1.1905	-.1804	-.0077	-.0025
20	CAKA	3.357	SC	21	.8457	.3874	-.4143	.1827
20	CAKA	3.357	TI	22	.8741	.2794	-.2657	.1131
20	CAKA	3.357	V	23	.8959	.2015	-.1630	.0660
20	CAKA	3.357	CR	24	.9283	.1344	-.1012	.0388
20	CAKA	3.357	MN	25	.9419	.0969	-.0593	.0207
20	CAKA	3.357	FE	26	.9685	.0558	-.0355	.0112

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
20	CAKA	3.357	CO	27	.9754	.0417	-.0229	.0059
20	CAKA	3.357	NI	28	1.0070	.0043	-.0150	.0037
20	CAKA	3.357	CU	29	.9972	.0157	-.0155	.0026
20	CAKA	3.357	ZN	30	1.0105	.0021	-.0143	.0017
20	CAKA	3.357	GA	31	1.0052	.0118	-.0186	.0016
20	CAKA	3.357	GE	32	1.0110	.0089	-.0213	.0014
20	CAKA	3.357	Y	39	1.0844	-.0431	-.0407	-.0006
20	CAKA	3.357	ZR	40	1.0941	-.0494	-.0437	-.0009
20	CAKA	3.357	NB	41	1.1099	-.0627	-.0455	-.0018
20	CAKA	3.357	MO	42	1.1184	-.0652	-.0512	-.0019
20	CAKA	3.357	PD	46	1.1660	-.0902	-.0711	-.0046
20	CAKA	3.357	AG	47	1.1427	-.0756	-.0639	-.0031
20	CAKA	3.357	CD	48	1.0750	-.0173	-.0591	.0014
20	CAKA	3.357	SN	50	.9372	.0946	-.0377	.0059
20	CAKA	3.357	SB	51	.9378	.0965	-.0408	.0064
20	CAKA	3.357	CS	55	.8961	.1702	-.0833	.0171
20	CAKA	3.357	BA	56	.9005	.1636	-.0789	.0149
20	CAKA	3.357	LA	57	.9128	.1472	-.0729	.0129
20	CAKA	3.357	CE	58	.9259	.1308	-.0681	.0114
20	CAKA	3.357	HF	72	1.0220	.0730	-.1112	.0164
20	CAKA	3.357	TA	73	1.0296	.0691	-.1150	.0164
20	CAKA	3.357	W	74	1.0360	.0672	-.1198	.0167
20	CAKA	3.357	RE	75	1.0442	.0627	-.1234	.0166
20	CAKA	3.357	PT	78	1.0648	.0572	-.1389	.0170
20	CAKA	3.357	AU	79	1.0751	.0502	-.1416	.0164
20	CAKA	3.357	PB	82	1.0646	.0679	-.1523	.0199
20	CAKA	3.357	TH	90	1.0540	.0969	-.1777	.0271
20	CAKA	3.357	U	92	.9529	.1614	-.1462	.0321
21	SCKA	3.030	B	5	1.0266	-.0176	-.0095	.0005
21	SCKA	3.030	C	6	1.0638	-.0502	-.0131	-.0005
21	SCKA	3.030	N	7	1.0629	-.0522	-.0100	-.0008
21	SCKA	3.030	O	8	1.0641	-.0560	-.0069	-.0012
21	SCKA	3.030	F	9	1.0386	-.0367	-.0010	-.0009
21	SCKA	3.030	NA	11	1.0548	-.0557	.0023	-.0015
21	SCKA	3.030	MG	12	1.0801	-.0808	.0022	-.0016
21	SCKA	3.030	AL	13	1.0774	-.0802	.0048	-.0020
21	SCKA	3.030	SI	14	1.1073	-.1091	.0032	-.0014
21	SCKA	3.030	P	15	1.1059	-.1081	.0031	-.0008
21	SCKA	3.030	S	16	1.1371	-.1388	.0023	-.0006
21	SCKA	3.030	CL	17	1.1327	-.1336	.0018	-.0008
21	SCKA	3.030	K	19	1.1778	-.1757	-.0012	-.0008
21	SCKA	3.030	CA	20	1.2130	-.2098	-.0024	-.0008
21	SCKA	3.030	TI	22	.8451	.4227	-.4731	.2069
21	SCKA	3.030	V	23	.8775	.3020	-.3102	.1317
21	SCKA	3.030	CR	24	.9176	.2035	-.2043	.0837

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
21	SCKA	3.030	MN	25	.9388	.1361	-.1226	.0479
21	SCKA	3.030	FE	26	.9705	.0762	-.0743	.0277
21	SCKA	3.030	CO	27	.9814	.0460	-.0418	.0145
21	SCKA	3.030	NI	28	1.0153	.0009	-.0247	.0086
21	SCKA	3.030	CU	29	1.0069	.0038	-.0149	.0043
21	SCKA	3.030	ZN	30	1.0205	-.0133	-.0093	.0020
21	SCKA	3.030	GA	31	1.0147	-.0065	-.0093	.0011
21	SCKA	3.030	GE	32	1.0195	-.0104	-.0097	.0006
21	SCKA	3.030	Y	39	1.0787	-.0579	-.0195	-.0013
21	SCKA	3.030	ZR	40	1.0865	-.0637	-.0212	-.0015
21	SCKA	3.030	NB	41	1.0997	-.0756	-.0221	-.0020
21	SCKA	3.030	MO	42	1.1055	-.0776	-.0257	-.0021
21	SCKA	3.030	PD	46	1.1419	-.0997	-.0385	-.0037
21	SCKA	3.030	AG	47	1.1555	-.1121	-.0387	-.0047
21	SCKA	3.030	CD	48	1.1559	-.1042	-.0472	-.0045
21	SCKA	3.030	SN	50	1.0757	-.0358	-.0401	.0002
21	SCKA	3.030	SB	51	.9568	.0634	-.0239	.0037
21	SCKA	3.030	CS	55	.9620	.0649	-.0317	.0049
21	SCKA	3.030	BA	56	.9580	.0727	-.0364	.0057
21	SCKA	3.030	LA	57	.9005	.1596	-.0773	.0172
21	SCKA	3.030	CE	58	.9152	.1373	-.0658	.0134
21	SCKA	3.030	HF	72	1.0140	.0466	-.0718	.0112
21	SCKA	3.030	TA	73	1.0207	.0424	-.0742	.0111
21	SCKA	3.030	W	74	1.0261	.0402	-.0777	.0113
21	SCKA	3.030	RE	75	1.0332	.0357	-.0801	.0112
21	SCKA	3.030	PT	78	1.0501	.0297	-.0914	.0116
21	SCKA	3.030	AU	79	1.0589	.0230	-.0929	.0111
21	SCKA	3.030	PB	82	1.0748	.0214	-.1078	.0117
21	SCKA	3.030	TH	90	1.0659	.0468	-.1297	.0171
21	SCKA	3.030	U	92	1.0532	.0596	-.1318	.0191
22	TIKA	2.748	B	5	1.0396	-.0289	-.0110	.0002
22	TIKA	2.748	C	6	1.0764	-.0603	-.0154	-.0007
22	TIKA	2.748	N	7	1.0742	-.0607	-.0128	-.0006
22	TIKA	2.748	O	8	1.0737	-.0628	-.0100	-.0009
22	TIKA	2.748	F	9	1.0461	-.0419	-.0035	-.0007
22	TIKA	2.748	NA	11	1.0576	-.0563	-.0001	-.0013
22	TIKA	2.748	MG	12	1.0799	-.0785	.0003	-.0018
22	TIKA	2.748	AL	13	1.0740	-.0751	.0032	-.0021
22	TIKA	2.748	SI	14	1.1005	-.1006	.0018	-.0017
22	TIKA	2.748	P	15	1.0951	-.0965	.0025	-.0011
22	TIKA	2.748	S	16	1.1223	-.1231	.0014	-.0007
22	TIKA	2.748	CL	17	1.1135	-.1148	.0017	-.0005
22	TIKA	2.748	K	19	1.1494	-.1494	.0004	-.0003
22	TIKA	2.748	CA	20	1.1797	-.1791	-.0004	-.0002
22	TIKA	2.748	SC	21	1.1599	-.1559	-.0032	-.0008

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
22	TIKA	2.748	V	23	.9766	.0581	-.0625	.0281
22	TIKA	2.748	CR	24	.8777	.3246	-.3476	.1465
22	TIKA	2.748	MN	25	.9072	.2251	-.2224	.0907
22	TIKA	2.748	FE	26	.9448	.1424	-.1430	.0562
22	TIKA	2.748	CO	27	.9616	.0908	-.0835	.0313
22	TIKA	2.748	NI	28	.9986	.0341	-.0514	.0189
22	TIKA	2.748	CU	29	.9936	.0248	-.0276	.0093
22	TIKA	2.748	ZN	30	1.0086	.0020	-.0154	.0048
22	TIKA	2.748	GA	31	1.0036	.0041	-.0099	.0021
22	TIKA	2.748	GE	32	1.0083	-.0016	-.0077	.0010
22	TIKA	2.748	Y	39	1.0568	-.0437	-.0123	-.0008
22	TIKA	2.748	ZR	40	1.0628	-.0483	-.0136	-.0009
22	TIKA	2.748	NB	41	1.0738	-.0586	-.0139	-.0012
22	TIKA	2.748	MO	42	1.0773	-.0592	-.0170	-.0011
22	TIKA	2.748	PD	46	1.1042	-.0758	-.0266	-.0017
22	TIKA	2.748	AG	47	1.1157	-.0868	-.0266	-.0023
22	TIKA	2.748	CD	48	1.1139	-.0785	-.0333	-.0020
22	TIKA	2.748	SN	50	1.1253	-.0810	-.0421	-.0021
22	TIKA	2.748	SB	51	1.1007	-.0592	-.0407	-.0008
22	TIKA	2.748	CS	55	.9581	.0632	-.0257	.0044
22	TIKA	2.748	BA	56	.9533	.0712	-.0296	.0050
22	TIKA	2.748	LA	57	.9587	.0659	-.0294	.0048
22	TIKA	2.748	CE	58	.9654	.0588	-.0288	.0046
22	TIKA	2.748	HF	72	.9888	.0576	-.0566	.0102
22	TIKA	2.748	TA	73	.9948	.0535	-.0587	.0104
22	TIKA	2.748	W	74	.9996	.0513	-.0616	.0107
22	TIKA	2.748	RE	75	1.0058	.0471	-.0636	.0108
22	TIKA	2.748	PT	78	1.0198	.0418	-.0727	.0113
22	TIKA	2.748	AU	79	1.0274	.0357	-.0739	.0109
22	TIKA	2.748	PB	82	1.0395	.0352	-.0864	.0118
22	TIKA	2.748	TH	90	1.0307	.0585	-.1049	.0159
22	TIKA	2.748	U	92	1.0434	.0542	-.1138	.0163
22	TILA	27.523	B	5	1.7533	-1.4620	1.1787	-.4730
22	TILA	27.523	C	6	2.5772	-2.7075	1.8049	-.6779
22	TILA	27.523	N	7	3.5637	-4.1714	2.5168	-.9122
22	TILA	27.523	O	8	.7236	.4222	-.1979	.0525
22	TILA	27.523	F	9	.8053	.2621	-.0881	.0209
22	TILA	27.523	NA	11	1.0796	-.1101	.0450	-.0145
22	TILA	27.523	MG	12	1.2687	-.3302	.0830	-.0215
22	TILA	27.523	AL	13	1.4610	-.5565	.1290	-.0336
22	TILA	27.523	SI	14	1.7110	-.8206	.1464	-.0368
22	TILA	27.523	P	15	1.9573	-1.0858	.1848	-.0561
22	TILA	27.523	S	16	2.2671	-1.3946	.1913	-.0635
22	TILA	27.523	CL	17	2.5647	-1.6963	.2291	-.0969
22	TILA	27.523	K	19	3.3106	-2.4046	.2421	-.1466

APPENDIX

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
22	TILA	27.523	CA	20	3.7466	-2.8037	.2288	-.1694
22	TILA	27.523	SC	21	4.1091	-3.1234	.2435	-.2259
22	TILA	27.523	V	23	1.0386	-.0373	-.0013	-.0000
22	TILA	27.523	CR	24	1.1137	-.1094	-.0040	-.0002
22	TILA	27.523	MN	25	1.1882	-.1759	-.0111	-.0012
22	TILA	27.523	FE	26	1.2909	-.2700	-.0172	-.0037
22	TILA	27.523	CO	27	1.3831	-.3459	-.0295	-.0077
22	TILA	27.523	NI	28	1.5100	-.4621	-.0332	-.0146
22	TILA	27.523	CU	29	1.5966	-.5200	-.0536	-.0229
22	TILA	27.523	ZN	30	1.7125	-.6142	-.0636	-.0346
22	TILA	27.523	GA	31	1.8095	-.6756	-.0869	-.0468
22	TILA	27.523	GE	32	1.9211	-.7551	-.1035	-.0622
22	TILA	27.523	Y	39	2.7954	-1.3686	-.1811	-.2436
22	TILA	27.523	ZR	40	2.4661	-1.1050	-.1687	-.1909
22	TILA	27.523	NB	41	2.6043	-1.2051	-.1708	-.2267
22	TILA	27.523	MO	42	2.1422	-.8438	-.1560	-.1415
22	TILA	27.523	PD	46	2.5733	-1.1076	-.2077	-.2560
22	TILA	27.523	AG	47	1.1984	-.1370	-.0651	.0038
22	TILA	27.523	CD	48	1.2134	-.1360	-.0803	.0031
22	TILA	27.523	SN	50	1.2574	-.1527	-.1060	.0015
22	TILA	27.523	SB	51	1.2806	-.1608	-.1209	.0011
22	TILA	27.523	CS	55	1.3849	-.1951	-.1890	-.0003
22	TILA	27.523	BA	56	1.4061	-.1927	-.2099	-.0030
22	TILA	27.523	LA	57	1.4390	-.2122	-.2178	-.0084
22	TILA	27.523	CE	58	1.4736	-.2353	-.2224	-.0153
22	TILA	27.523	HF	72	1.8737	-.4062	-.2748	-.1916
22	TILA	27.523	TA	73	1.9022	-.4208	-.2714	-.2088
22	TILA	27.523	W	74	1.9292	-.4315	-.2707	-.2257
22	TILA	27.523	RE	75	1.9584	-.4476	-.2651	-.2444
22	TILA	27.523	PT	78	2.0416	-.4811	-.2573	-.3016
22	TILA	27.523	AU	79	2.0743	-.5030	-.2458	-.3239
22	TILA	27.523	PB	82	2.1627	-.5277	-.2472	-.3856
22	TILA	27.523	TH	90	2.4813	-.6529	-.2078	-.6166
22	TILA	27.523	U	92	2.5856	-.6959	-.1911	-.6939
23	VKA	2.503	B	5	1.0530	-.0404	-.0123	-.0003
23	VKA	2.503	C	6	1.0895	-.0709	-.0173	-.0012
23	VKA	2.503	N	7	1.0863	-.0702	-.0151	-.0010
23	VKA	2.503	O	8	1.0846	-.0709	-.0128	-.0009
23	VKA	2.503	F	9	1.0551	-.0483	-.0067	-.0001
23	VKA	2.503	NA	11	1.0632	-.0597	-.0022	-.0013
23	VKA	2.503	MG	12	1.0833	-.0794	-.0021	-.0017
23	VKA	2.503	AL	13	1.0749	-.0740	.0010	-.0019
23	VKA	2.503	SI	14	1.0988	-.0967	-.0003	-.0017
23	VKA	2.503	P	15	1.0904	-.0903	.0009	-.0010
23	VKA	2.503	S	16	1.1146	-.1139	.0001	-.0008

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
23	VKA	2.503	CL	17	1.1024	-.1034	.0018	-.0008
23	VKA	2.503	K	19	1.1310	-.1315	.0007	-.0003
23	VKA	2.503	CA	20	1.1576	-.1574	-.0004	.0003
23	VKA	2.503	SC	21	1.1341	-.1330	-.0008	-.0004
23	VKA	2.503	TI	22	1.0073	-.0071	-.0001	-.0000
23	VKA	2.503	CR	24	.9912	.0521	-.0781	.0350
23	VKA	2.503	MN	25	.8652	.3520	-.3718	.1557
23	VKA	2.503	FE	26	.9103	.2417	-.2548	.1036
23	VKA	2.503	CO	27	.9353	.1610	-.1579	.0621
23	VKA	2.503	NI	28	.9773	.0864	-.1026	.0391
23	VKA	2.503	CU	29	.9783	.0572	-.0554	.0200
23	VKA	2.503	ZN	30	.9966	.0235	-.0305	.0104
23	VKA	2.503	GA	31	.9941	.0175	-.0164	.0048
23	VKA	2.503	GE	32	.9999	.0074	-.0095	.0022
23	VKA	2.503	Y	39	1.0427	-.0349	-.0072	-.0006
23	VKA	2.503	ZR	40	1.0474	-.0386	-.0081	-.0007
23	VKA	2.503	NB	41	1.0566	-.0474	-.0085	-.0007
23	VKA	2.503	MO	42	1.0584	-.0471	-.0107	-.0006
23	VKA	2.503	PD	46	1.0777	-.0591	-.0177	-.0009
23	VKA	2.503	AG	47	1.0876	-.0686	-.0179	-.0010
23	VKA	2.503	CD	48	1.0840	-.0600	-.0233	-.0007
23	VKA	2.503	SN	50	1.0914	-.0606	-.0303	-.0004
23	VKA	2.503	SB	51	1.0945	-.0605	-.0336	-.0003
23	VKA	2.503	CS	55	.9575	.0593	-.0206	.0038
23	VKA	2.503	BA	56	.9521	.0676	-.0240	.0043
23	VKA	2.503	LA	57	.9568	.0629	-.0241	.0044
23	VKA	2.503	CE	58	.9628	.0565	-.0234	.0042
23	VKA	2.503	HF	72	.9682	.0676	-.0446	.0088
23	VKA	2.503	TA	73	.9742	.0630	-.0462	.0091
23	VKA	2.503	W	74	.9788	.0603	-.0486	.0095
23	VKA	2.503	RE	75	.9847	.0559	-.0502	.0097
23	VKA	2.503	PT	78	.9971	.0505	-.0582	.0105
23	VKA	2.503	AU	79	1.0039	.0449	-.0592	.0104
23	VKA	2.503	PB	82	1.0134	.0450	-.0697	.0113
23	VKA	2.503	TH	90	1.0311	.0480	-.0925	.0134
23	VKA	2.503	U	92	1.0148	.0634	-.0930	.0150
23	VLA	24.395	B	5	1.5500	-1.0721	.8792	-.3594
23	VLA	24.395	C	6	2.2126	-2.0658	1.3766	-.5261
23	VLA	24.395	N	7	2.9974	-3.2367	1.9640	-.7274
23	VLA	24.395	O	8	.7453	.3781	-.1483	.0252
23	VLA	24.395	F	9	.7989	.2874	-.1181	.0321
23	VLA	24.395	NA	11	1.0260	-.0331	.0138	-.0068
23	VLA	24.395	MG	12	1.1844	-.2205	.0502	-.0142
23	VLA	24.395	AL	13	1.3408	-.4091	.0923	-.0241
23	VLA	24.395	SI	14	1.5494	-.6314	.1081	-.0262

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
23	VLA	24.395	P	15	1.7485	-.8491	.1420	-.0414
23	VLA	24.395	S	16	2.0054	-1.1066	.1484	-.0469
23	VLA	24.395	CL	17	2.2437	-1.3521	.1848	-.0761
23	VLA	24.395	K	19	2.0524	-1.9371	.2077	-.1218
23	VLA	24.395	CA	20	3.2102	-2.2687	.2031	-.1429
23	VLA	24.395	SC	21	3.5213	-2.5564	.2412	-.2036
23	VLA	24.395	TI	22	3.7852	-2.7757	.2305	-.2368
23	VLA	24.395	CR	24	1.0657	-.0650	-.0006	-.0000
23	VLA	24.395	MN	25	1.1281	-.1233	-.0045	-.0003
23	VLA	24.395	FE	26	1.2173	-.2073	-.0085	-.0015
23	VLA	24.395	CO	27	1.2946	-.2736	-.0171	-.0039
23	VLA	24.395	NI	28	1.4058	-.3774	-.0205	-.0080
23	VLA	24.395	CU	29	1.4757	-.4260	-.0357	-.0139
23	VLA	24.395	ZN	30	1.5746	-.5085	-.0439	-.0221
23	VLA	24.395	GA	31	1.6536	-.5603	-.0619	-.0315
23	VLA	24.395	GE	32	1.7474	-.6289	-.0750	-.0433
23	VLA	24.395	Y	39	2.4832	-1.1604	-.1311	-.1902
23	VLA	24.395	ZR	40	2.5988	-1.2405	-.1357	-.2208
23	VLA	24.395	NB	41	2.3278	-1.0270	-.1257	-.1739
23	VLA	24.395	MO	42	2.4380	-1.0960	-.1375	-.2030
23	VLA	24.395	PD	46	2.3054	-.9534	-.1526	-.1979
23	VLA	24.395	AG	47	2.4126	-1.0312	-.1496	-.2300
23	VLA	24.395	CD	48	2.5027	-1.0671	-.1766	-.2569
23	VLA	24.395	SN	50	1.2193	-.1453	-.0739	.0000
23	VLA	24.395	SB	51	1.2404	-.1551	-.0838	-.0014
23	VLA	24.395	CS	55	1.3356	-.2002	-.1261	-.0090
23	VLA	24.395	BA	56	1.3540	-.1988	-.1444	-.0106
23	VLA	24.395	LA	57	1.3842	-.2173	-.1533	-.0132
23	VLA	24.395	CE	58	1.4159	-.2378	-.1619	-.0158
23	VLA	24.395	HF	72	1.7672	-.3473	-.3157	-.1028
23	VLA	24.395	TA	73	1.7924	-.3587	-.3170	-.1153
23	VLA	24.395	W	74	1.8161	-.3668	-.3200	-.1280
23	VLA	24.395	RE	75	1.8420	-.3801	-.3174	-.1430
23	VLA	24.395	PT	78	1.9150	-.4055	-.3211	-.1868
23	VLA	24.395	AU	79	1.9443	-.4240	-.3141	-.2045
23	VLA	24.395	PB	82	2.0213	-.4441	-.3190	-.2562
23	VLA	24.395	TH	90	2.3004	-.5488	-.2999	-.4483
23	VLA	24.395	U	92	2.3918	-.5872	-.2851	-.5156
24	CRKA	2.290	B	5	1.0459	-.0352	-.0104	-.0003
24	CRKA	2.290	C	6	1.0815	-.0647	-.0162	-.0006
24	CRKA	2.290	N	7	1.0777	-.0631	-.0139	-.0006
24	CRKA	2.290	O	8	1.0750	-.0625	-.0119	-.0006
24	CRKA	2.290	F	9	1.0447	-.0387	-.0062	.0002
24	CRKA	2.290	NA	11	1.0499	-.0465	-.0029	-.0005
24	CRKA	2.290	MG	12	1.0681	-.0647	-.0017	-.0017

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
24	CRKA	2.290	AL	13	1.0579	-.0572	.0012	-.0019
24	CRKA	2.290	SI	14	1.0794	-.0773	-.0007	-.0014
24	CRKA	2.290	P	15	1.0689	-.0685	.0002	-.0006
24	CRKA	2.290	S	16	1.0903	-.0893	-.0004	-.0005
24	CRKA	2.290	CL	17	1.0758	-.0765	.0012	-.0004
24	CRKA	2.290	K	19	1.0984	-.0991	.0011	-.0004
24	CRKA	2.290	CA	20	1.1215	-.1219	.0007	-.0003
24	CRKA	2.290	SC	21	1.0956	-.0954	.0005	-.0007
24	CRKA	2.290	TI	22	1.0963	-.0944	-.0015	-.0004
24	CRKA	2.290	V	23	.9881	.0118	.0000	.0000
24	CRKA	2.290	MN	25	.9704	.0770	-.0350	.0379
24	CRKA	2.290	FE	26	.8528	.3772	-.3921	.1632
24	CRKA	2.290	CO	27	.8861	.2686	-.2590	.1050
24	CRKA	2.290	NI	28	.9331	.1749	-.1773	.0698
24	CRKA	2.290	CU	29	.9416	.1218	-.1012	.0380
24	CRKA	2.290	ZN	30	.9642	.0740	-.0591	.0211
24	CRKA	2.290	GA	31	.9656	.0563	-.0323	.0104
24	CRKA	2.290	GE	32	.9736	.0396	-.0183	.0051
24	CRKA	2.290	Y	39	1.0141	-.0063	-.0081	.0003
24	CRKA	2.290	ZR	40	1.0178	-.0093	-.0086	.0001
24	CRKA	2.290	NB	41	1.0255	-.0166	-.0090	.0001
24	CRKA	2.290	MO	42	1.0260	-.0153	-.0109	.0002
24	CRKA	2.290	PD	46	1.0391	-.0220	-.0174	.0004
24	CRKA	2.290	AG	47	1.0475	-.0301	-.0179	.0005
24	CRKA	2.290	CD	48	1.0426	-.0208	-.0227	.0010
24	CRKA	2.290	SN	50	1.0467	-.0190	-.0293	.0017
24	CRKA	2.290	SB	51	1.0485	-.0180	-.0324	.0020
24	CRKA	2.290	CS	55	1.0441	-.0078	-.0389	.0027
24	CRKA	2.290	BA	56	1.0040	.0290	-.0371	.0040
24	CRKA	2.290	LA	57	.9390	.0820	-.0258	.0049
24	CRKA	2.290	CE	58	.9443	.0762	-.0252	.0048
24	CRKA	2.290	HF	72	.9319	.1040	-.0454	.0095
24	CRKA	2.290	TA	73	.9382	.0984	-.0465	.0099
24	CRKA	2.290	W	74	.9431	.0950	-.0486	.0105
24	CRKA	2.290	RE	75	.9490	.0901	-.0497	.0106
24	CRKA	2.290	PT	78	.9609	.0845	-.0574	.0119
24	CRKA	2.290	AU	79	.9672	.0793	-.0584	.0119
24	CRKA	2.290	PB	82	.9749	.0805	-.0686	.0132
24	CRKA	2.290	TH	90	1.0057	.0741	-.0951	.0154
24	CRKA	2.290	U	92	.9971	.0840	-.0974	.0164
24	CRLA	21.765	B	5	1.3598	-.7400	.6529	-.2745
24	CRLA	21.765	C	6	1.8813	-1.5199	1.0516	-.4154
24	CRLA	21.765	N	7	2.4911	-2.4378	1.5356	-.5915
24	CRLA	21.765	O	8	3.2242	-3.4849	2.0265	-.7680
24	CRLA	21.765	F	9	.7775	.3187	-.1392	.0434

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
24	CRLA	21.765	NA	11	.9605	.0488	-.0096	.0004
24	CRLA	21.765	MG	12	1.0903	-.1085	.0276	-.0094
24	CRLA	21.765	AL	13	1.2141	-.2626	.0673	-.0189
24	CRLA	21.765	SI	14	1.3847	-.4467	.0839	-.0219
24	CRLA	21.765	P	15	1.5419	-.6209	.1129	-.0339
24	CRLA	21.765	S	16	1.7505	-.8320	.1205	-.0391
24	CRLA	21.765	CL	17	1.9368	-1.0248	.1504	-.0624
24	CRLA	21.765	K	19	2.4233	-1.4952	.1752	-.1027
24	CRLA	21.765	CA	20	2.7112	-1.7645	.1774	-.1229
24	CRLA	21.765	SC	21	2.9492	-1.9846	.2133	-.1762
24	CRLA	21.765	TI	22	3.2418	-2.2465	.2249	-.2177
24	CRLA	21.765	V	23	3.3984	-2.3596	.2055	-.2413
24	CRLA	21.765	MN	25	1.0508	-.0493	-.0015	-.0000
24	CRLA	21.765	FE	26	1.1263	-.1217	-.0043	-.0003
24	CRLA	21.765	CO	27	1.1893	-.1771	-.0108	-.0014
24	CRLA	21.765	NI	28	1.2847	-.2674	-.0138	-.0035
24	CRLA	21.765	CU	29	1.3393	-.3056	-.0268	-.0068
24	CRLA	21.765	ZN	30	1.4218	-.3752	-.0346	-.0118
24	CRLA	21.765	GA	31	1.4848	-.4160	-.0510	-.0178
24	CRLA	21.765	GE	32	1.5615	-.4723	-.0634	-.0256
24	CRLA	21.765	Y	39	2.1673	-.9091	-.1242	-.1332
24	CRLA	21.765	ZR	40	2.2622	-.9744	-.1300	-.1566
24	CRLA	21.765	NB	41	2.3650	-1.0506	-.1294	-.1836
24	CRLA	21.765	MO	42	2.4598	-1.1075	-.1405	-.2102
24	CRLA	21.765	PD	46	2.0276	-.7454	-.1456	-.1357
24	CRLA	21.765	AG	47	2.1169	-.8105	-.1453	-.1601
24	CRLA	21.765	CD	48	2.1891	-.8375	-.1692	-.1810
24	CRLA	21.765	SN	50	1.3491	-.2327	-.0985	-.0178
24	CRLA	21.765	SB	51	1.1689	-.1006	-.0702	.0019
24	CRLA	21.765	CS	55	1.2522	-.1429	-.1058	-.0034
24	CRLA	21.765	BA	56	1.2677	-.1419	-.1210	-.0046
24	CRLA	21.765	LA	57	1.2947	-.1601	-.1272	-.0072
24	CRLA	21.765	CE	58	1.3234	-.1807	-.1323	-.0101
24	CRLA	21.765	HF	72	1.6288	-.2562	-.3293	-.0418
24	CRLA	21.765	TA	73	1.6505	-.2622	-.3394	-.0473
24	CRLA	21.765	W	74	1.6706	-.2651	-.3509	-.0531
24	CRLA	21.765	RE	75	1.6927	-.2721	-.3588	-.0602
24	CRLA	21.765	PT	78	1.7548	-.2827	-.3861	-.0841
24	CRLA	21.765	AU	79	1.7802	-.2957	-.3873	-.0952
24	CRLA	21.765	PB	82	1.8451	-.3024	-.4121	-.1285
24	CRLA	21.765	TH	90	2.0829	-.3686	-.4430	-.2682
24	CRLA	21.765	U	92	2.1607	-.3941	-.4453	-.3177
25	MNKA	2.102	B	5	1.0577	-.0452	-.0122	-.0004
25	MNKA	2.102	C	6	1.0934	-.0747	-.0174	-.0014
25	MNKA	2.102	N	7	1.0889	-.0725	-.0152	-.0013

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
25	MNKA	2.102	O	8	1.0855	-.0712	-.0131	-.0012
25	MNKA	2.102	F	9	1.0541	-.0464	-.0075	-.0002
25	MNKA	2.102	NA	11	1.0571	-.0519	-.0046	-.0007
25	MNKA	2.102	MG	12	1.0740	-.0683	-.0042	-.0015
25	MNKA	2.102	AL	13	1.0624	-.0599	-.0007	-.0018
25	MNKA	2.102	SI	14	1.0825	-.0786	-.0022	-.0017
25	MNKA	2.102	P	15	1.0700	-.0681	-.0013	-.0007
25	MNKA	2.102	S	16	1.0897	-.0871	-.0021	-.0006
25	MNKA	2.102	CL	17	1.0731	-.0728	.0000	-.0004
25	MNKA	2.102	K	19	1.0914	-.0913	.0000	-.0001
25	MNKA	2.102	CA	20	1.1123	-.1117	-.0007	.0002
25	MNKA	2.102	SC	21	1.0840	-.0843	.0001	.0001
25	MNKA	2.102	TI	22	1.0824	-.0821	-.0005	.0001
25	MNKA	2.102	V	23	1.0819	-.0805	-.0015	.0001
25	MNKA	2.102	CR	24	1.0064	-.0063	-.0006	.0004
25	MNKA	2.102	FE	26	.9838	.0725	-.1006	.0448
25	MNKA	2.102	CO	27	.8413	.3972	-.4046	.1673
25	MNKA	2.102	NI	28	.8952	.2807	-.2931	.1180
25	MNKA	2.102	CU	29	.9140	.1954	-.1787	.0697
25	MNKA	2.102	ZN	30	.9434	.1260	-.1107	.0416
25	MNKA	2.102	GA	31	.9511	.0892	-.0624	.0223
25	MNKA	2.102	GE	32	.9632	.0603	-.0353	.0118
25	MNKA	2.102	Y	39	1.0083	-.0031	-.0058	.0007
25	MNKA	2.102	ZR	40	1.0113	-.0054	-.0068	.0009
25	MNKA	2.102	NB	41	1.0181	-.0120	-.0068	.0007
25	MNKA	2.102	MO	42	1.0175	-.0100	-.0082	.0007
25	MNKA	2.102	PD	46	1.0260	-.0140	-.0124	.0005
25	MNKA	2.102	AG	47	1.0334	-.0213	-.0127	.0006
25	MNKA	2.102	CD	48	1.0272	-.0116	-.0166	.0010
25	MNKA	2.102	SN	50	1.0288	-.0085	-.0221	.0018
25	MNKA	2.102	SB	51	1.0297	-.0070	-.0249	.0022
25	MNKA	2.102	CS	55	1.0416	-.0108	-.0332	.0025
25	MNKA	2.102	BA	56	1.0212	.0103	-.0348	.0032
25	MNKA	2.102	LA	57	1.0288	.0033	-.0352	.0031
25	MNKA	2.102	CE	58	1.0039	.0219	-.0293	.0035
25	MNKA	2.102	HF	72	.9120	.1199	-.0403	.0084
25	MNKA	2.102	TA	73	.9194	.1120	-.0400	.0086
25	MNKA	2.102	W	74	.9253	.1064	-.0406	.0089
25	MNKA	2.102	RE	75	.9320	.1001	-.0413	.0092
25	MNKA	2.102	PT	78	.9452	.0914	-.0473	.0106
25	MNKA	2.102	AU	79	.9516	.0858	-.0481	.0107
25	MNKA	2.102	PB	82	.9590	.0859	-.0568	.0119
25	MNKA	2.102	TH	90	.9840	.0818	-.0798	.0141
25	MNKA	2.102	U	92	.9922	.0796	-.0861	.0145
25	MNLA	19.536	B	5	1.2329	-.4970	.4635	-.2006

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
25	MNLA	19.536	C	6	1.6524	-1.1151	.7698	-.3089
25	MNLA	19.536	N	7	2.1354	-1.8398	1.1487	-.4465
25	MNLA	19.536	O	8	2.7163	-2.6699	1.5429	-.5914
25	MNLA	19.536	F	9	.7699	.3501	-.1809	.0614
25	MNLA	19.536	NA	11	.9206	.1117	-.0425	.0104
25	MNLA	19.536	MG	12	1.0292	-.0246	-.0027	-.0019
25	MNLA	19.536	AL	13	1.1288	-.1549	.0373	-.0112
25	MNLA	19.536	SI	14	1.2711	-.3111	.0541	-.0141
25	MNLA	19.536	P	15	1.3972	-.4551	.0802	-.0224
25	MNLA	19.536	S	16	1.5704	-.6319	.0865	-.0250
25	MNLA	19.536	CL	17	1.7186	-.7879	.1111	-.0417
25	MNLA	19.536	K	19	2.1156	-1.1745	.1303	-.0710
25	MNLA	19.536	CA	20	2.3523	-1.3973	.1315	-.0859
25	MNLA	19.536	SC	21	2.5371	-1.5708	.1663	-.1316
25	MNLA	19.536	TI	22	2.7713	-1.7833	.1814	-.1679
25	MNLA	19.536	V	23	3.0197	-2.0032	.1934	-.2078
25	MNLA	19.536	CR	24	3.1326	-2.0831	.1697	-.2168
25	MNLA	19.536	FE	26	1.0650	-.0644	-.0006	-.0000
25	MNLA	19.536	CO	27	1.1169	-.1127	-.0039	-.0003
25	MNLA	19.536	NI	28	1.2000	-.1931	-.0058	-.0011
25	MNLA	19.536	CU	29	1.2430	-.2255	-.0146	-.0029
25	MNLA	19.536	ZN	30	1.3129	-.2867	-.0206	-.0056
25	MNLA	19.536	GA	31	1.3637	-.3213	-.0332	-.0092
25	MNLA	19.536	GE	32	1.4276	-.3701	-.0434	-.0141
25	MNLA	19.536	Y	39	1.9362	-.7470	-.0981	-.0906
25	MNLA	19.536	ZR	40	2.0157	-.8030	-.1036	-.1084
25	MNLA	19.536	NB	41	2.1024	-.8686	-.1040	-.1289
25	MNLA	19.536	MO	42	2.1806	-.9165	-.1133	-.1497
25	MNLA	19.536	PD	46	2.2487	-.9313	-.1313	-.1847
25	MNLA	19.536	AG	47	1.8996	-.6735	-.1163	-.1091
25	MNLA	19.536	CD	48	1.9584	-.6962	-.1359	-.1254
25	MNLA	19.536	SN	50	2.1012	-.7757	-.1577	-.1665
25	MNLA	19.536	SB	51	2.1769	-.8177	-.1680	-.1898
25	MNLA	19.536	CS	55	1.1915	-.1148	-.0772	.0006
25	MNLA	19.536	BA	56	1.2045	-.1146	-.0897	-.0002
25	MNLA	19.536	LA	57	1.2289	-.1323	-.0946	-.0019
25	MNLA	19.536	CE	58	1.2549	-.1522	-.0985	-.0040
25	MNLA	19.536	HF	72	1.5287	-.2517	-.2379	-.0383
25	MNLA	19.536	TA	73	1.5480	-.2565	-.2503	-.0402
25	MNLA	19.536	W	74	1.5655	-.2569	-.2668	-.0408
25	MNLA	19.536	RE	75	1.5847	-.2589	-.2848	-.0398
25	MNLA	19.536	PT	78	1.6381	-.2586	-.3335	-.0444
25	MNLA	19.536	AU	79	1.6602	-.2658	-.3453	-.0474
25	MNLA	19.536	PB	82	1.7158	-.2621	-.3908	-.0608
25	MNLA	19.536	TH	90	1.9208	-.2984	-.4735	-.1460

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P_0	P_1	P_2	P_3
25	MNLA	19.536	U	92	1.9880	-.3167	-.4856	-.1824
26	FEKA	1.936	B	5	1.0503	-.0396	-.0104	-.0003
26	FEKA	1.936	C	6	1.0853	-.0680	-.0169	-.0004
26	FEKA	1.936	N	7	1.0805	-.0659	-.0135	-.0012
26	FEKA	1.936	O	8	1.0766	-.0639	-.0115	-.0012
26	FEKA	1.936	F	9	1.0447	-.0387	-.0053	-.0008
26	FEKA	1.936	NA	11	1.0460	-.0421	-.0025	-.0014
26	FEKA	1.936	MG	12	1.0617	-.0570	-.0029	-.0019
26	FEKA	1.936	AL	13	1.0490	-.0469	-.0004	-.0018
26	FEKA	1.936	SI	14	1.0676	-.0638	-.0025	-.0013
26	FEKA	1.936	P	15	1.0540	-.0525	-.0008	-.0008
26	FEKA	1.936	S	16	1.0720	-.0696	-.0017	-.0007
26	FEKA	1.936	CL	17	1.0540	-.0539	.0004	-.0005
26	FEKA	1.936	K	19	1.0686	-.0687	.0004	-.0003
26	FEKA	1.936	CA	20	1.0874	-.0870	-.0002	-.0002
26	FEKA	1.936	SC	21	1.0578	-.0583	.0008	-.0003
26	FEKA	1.936	TI	22	1.0544	-.0545	.0003	-.0002
26	FEKA	1.936	V	23	1.0518	-.0510	-.0006	-.0003
26	FEKA	1.936	CR	24	1.0703	-.0692	-.0009	-.0002
26	FEKA	1.936	MN	25	.9883	.0116	.0000	.0000
26	FEKA	1.936	CO	27	.9622	.0969	-.1055	.0468
26	FEKA	1.936	NI	28	.8354	.4180	-.4275	.1753
26	FEKA	1.936	CU	29	.8643	.3038	-.2797	.1124
26	FEKA	1.936	ZN	30	.9007	.2125	-.1852	.0724
26	FEKA	1.936	GA	31	.9160	.1535	-.1110	.0418
26	FEKA	1.936	GE	32	.9333	.1091	-.0660	.0238
26	FEKA	1.936	Y	39	.9872	.0188	-.0072	.0012
26	FEKA	1.936	ZR	40	.9897	.0168	-.0076	.0010
26	FEKA	1.936	NB	41	.9956	.0110	-.0075	.0009
26	FEKA	1.936	MO	42	.9942	.0138	-.0089	.0010
26	FEKA	1.936	PD	46	.9989	.0135	-.0137	.0013
26	FEKA	1.936	AG	47	1.0053	.0070	-.0135	.0012
26	FEKA	1.936	CD	48	.9984	.0170	-.0168	.0013
26	FEKA	1.936	SN	50	.9980	.0216	-.0218	.0021
26	FEKA	1.936	SB	51	.9980	.0238	-.0244	.0026
26	FEKA	1.936	CS	55	1.0057	.0232	-.0321	.0031
26	FEKA	1.936	BA	56	1.0022	.0307	-.0364	.0035
26	FEKA	1.936	LA	57	1.0092	.0242	-.0369	.0035
26	FEKA	1.936	CE	58	1.0017	.0285	-.0333	.0032
26	FEKA	1.936	HF	72	.8746	.1625	-.0460	.0089
26	FEKA	1.936	TA	73	.8836	.1516	-.0439	.0087
26	FEKA	1.936	W	74	.8908	.1436	-.0432	.0088
26	FEKA	1.936	RE	75	.8986	.1354	-.0431	.0091
26	FEKA	1.936	PT	78	.9143	.1223	-.0470	.0105
26	FEKA	1.936	AU	79	.9210	.1161	-.0478	.0107

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
26	FEKA	1.936	PB	82	.9290	.1150	-.0562	.0122
26	FEKA	1.936	TH	90	.9502	.1136	-.0788	.0151
26	FEKA	1.936	U	92	.9564	.1126	-.0845	.0155
26	FELA	17.629	B	5	1.1206	-.3066	.3354	-.1504
26	FELA	17.629	C	6	1.4557	-.7957	.5774	-.2389
26	FELA	17.629	N	7	1.8349	-1.3653	.8798	-.3512
26	FELA	17.629	O	8	2.2912	-2.0199	1.2013	-.4746
26	FELA	17.629	F	9	2.7757	-2.7359	1.6109	-.6526
26	FELA	17.629	NA	11	.8770	.1697	-.0675	.0210
26	FELA	17.629	MG	12	.9672	.0518	-.0239	.0050
26	FELA	17.629	AL	13	1.0462	-.0578	.0175	-.0060
26	FELA	17.629	SI	14	1.1640	-.1898	.0363	-.0105
26	FELA	17.629	P	15	1.2639	-.3074	.0608	-.0174
26	FELA	17.629	S	16	1.4066	-.4548	.0679	-.0197
26	FELA	17.629	CL	17	1.5231	-.5790	.0876	-.0317
26	FELA	17.629	K	19	1.8449	-.8936	.1025	-.0536
26	FELA	17.629	CA	20	2.0384	-1.0766	.1038	-.0653
26	FELA	17.629	SC	21	2.1801	-1.2079	.1297	-.1013
26	FELA	17.629	TI	22	2.3662	-1.3760	.1420	-.1312
26	FELA	17.629	V	23	2.5632	-1.5498	.1530	-.1650
26	FELA	17.629	CR	24	2.8018	-1.7649	.1610	-.1959
26	FELA	17.629	MN	25	2.8321	-1.7624	.1365	-.2041
26	FELA	17.629	CO	27	1.0420	-.0407	-.0013	-.0000
26	FELA	17.629	NI	28	1.1137	-.1108	-.0026	-.0002
26	FELA	17.629	CU	29	1.1465	-.1366	-.0090	-.0009
26	FELA	17.629	ZN	30	1.2051	-.1889	-.0140	-.0022
26	FELA	17.629	GA	31	1.2453	-.2166	-.0248	-.0039
26	FELA	17.629	GE	32	1.2979	-.2574	-.0340	-.0066
26	FELA	17.629	Y	39	1.7210	-.5719	-.0919	-.0569
26	FELA	17.629	ZR	40	1.7870	-.6182	-.0989	-.0695
26	FELA	17.629	NB	41	1.8596	-.6730	-.1017	-.0843
26	FELA	17.629	MO	42	1.9234	-.7111	-.1122	-.0995
26	FELA	17.629	PD	46	1.9811	-.7239	-.1320	-.1244
26	FELA	17.629	AG	47	2.0648	-.7860	-.1309	-.1469
26	FELA	17.629	CD	48	1.8979	-.6435	-.1413	-.1123
26	FELA	17.629	SN	50	1.8598	-.5959	-.1539	-.1092
26	FELA	17.629	SB	51	1.9222	-.6298	-.1652	-.1264
26	FELA	17.629	CS	55	1.1198	-.0579	-.0662	.0043
26	FELA	17.629	BA	56	1.1305	-.0574	-.0772	.0041
26	FELA	17.629	LA	57	1.1521	-.0735	-.0817	.0031
26	FELA	17.629	CE	58	1.1752	-.0918	-.0852	.0018
26	FELA	17.629	HF	72	1.4151	-.1871	-.2049	-.0226
26	FELA	17.629	TA	73	1.4323	-.1932	-.2134	-.0251
26	FELA	17.629	W	74	1.4480	-.1962	-.2239	-.0273
26	FELA	17.629	RE	75	1.4656	-.2026	-.2325	-.0299

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
26	FELA	17.629	PT	78	1.5133	-.2083	-.2677	-.0364
26	FELA	17.629	AU	79	1.5333	-.2168	-.2762	-.0394
26	FELA	17.629	PB	82	1.5813	-.2100	-.3268	-.0433
26	FELA	17.629	TH	90	1.7557	-.2071	-.4769	-.0692
26	FELA	17.629	U	92	1.8133	-.2148	-.5070	-.0885
27	COKA	1.789	B	5	1.0634	-.0508	-.0117	-.0009
27	COKA	1.789	C	6	1.0986	-.0787	-.0192	-.0006
27	COKA	1.789	N	7	1.0933	-.0759	-.0165	-.0008
27	COKA	1.789	O	8	1.0890	-.0745	-.0125	-.0019
27	COKA	1.789	F	9	1.0562	-.0485	-.0064	-.0013
27	COKA	1.789	NA	11	1.0561	-.0508	-.0032	-.0021
27	COKA	1.789	MG	12	1.0711	-.0648	-.0036	-.0027
27	COKA	1.789	AL	13	1.0574	-.0540	-.0007	-.0027
27	COKA	1.789	SI	14	1.0751	-.0694	-.0040	-.0017
27	COKA	1.789	P	15	1.0602	-.0564	-.0036	-.0002
27	COKA	1.789	S	16	1.0773	-.0728	-.0040	-.0004
27	COKA	1.789	CL	17	1.0579	-.0565	-.0008	-.0006
27	COKA	1.789	K	19	1.0699	-.0689	-.0006	-.0004
27	COKA	1.789	CA	20	1.0872	-.0857	-.0012	-.0003
27	COKA	1.789	SC	21	1.0560	-.0564	.0006	-.0002
27	COKA	1.789	TI	22	1.0511	-.0515	.0006	-.0002
27	COKA	1.789	V	23	1.0469	-.0470	.0003	-.0002
27	COKA	1.789	CR	24	1.0636	-.0634	-.0000	-.0001
27	COKA	1.789	MN	25	1.0613	-.0605	-.0007	-.0001
27	COKA	1.789	FE	26	1.0079	-.0078	-.0001	-.0000
27	COKA	1.789	NI	28	.9839	.0857	-.1236	.0544
27	COKA	1.789	CU	29	.8185	.4325	-.4232	.1734
27	COKA	1.789	ZN	30	.8641	.3158	-.3000	.1209
27	COKA	1.789	GA	31	.8896	.2265	-.1910	.0754
27	COKA	1.789	GE	32	.9148	.1593	-.1202	.0464
27	COKA	1.789	Y	39	.9873	.0175	-.0068	.0019
27	COKA	1.789	ZR	40	.9897	.0151	-.0064	.0015
27	COKA	1.789	NB	41	.9952	.0096	-.0062	.0013
27	COKA	1.789	MO	42	.9932	.0126	-.0072	.0013
27	COKA	1.789	PD	46	.9949	.0141	-.0104	.0013
27	COKA	1.789	AG	47	1.0007	.0083	-.0102	.0012
27	COKA	1.789	CD	48	.9930	.0186	-.0129	.0013
27	COKA	1.789	SN	50	.9910	.0242	-.0175	.0022
27	COKA	1.789	SB	51	.9903	.0267	-.0197	.0026
27	COKA	1.789	CS	55	.9948	.0275	-.0247	.0024
27	COKA	1.789	BA	56	.9904	.0353	-.0286	.0029
27	COKA	1.789	LA	57	.9965	.0294	-.0287	.0027
27	COKA	1.789	CE	58	1.0034	.0220	-.0277	.0022
27	COKA	1.789	HF	72	.8484	.1928	-.0514	.0100
27	COKA	1.789	TA	73	.8599	.1772	-.0460	.0088

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
27	COKA	1.789	W	74	.8695	.1648	-.0425	.0082
27	COKA	1.789	RE	75	.8793	.1528	-.0399	.0078
27	COKA	1.789	PT	78	.9000	.1310	-.0394	.0084
27	COKA	1.789	AU	79	.9078	.1229	-.0395	.0087
27	COKA	1.789	PB	82	.9183	.1177	-.0466	.0104
27	COKA	1.789	TH	90	.9391	.1145	-.0669	.0132
27	COKA	1.789	U	92	.9440	.1141	-.0716	.0135
27	COLA	15.988	B	5	1.0562	-.1775	.2303	-.1098
27	COLA	15.988	C	6	1.3320	-.5730	.4183	-.1784
27	COLA	15.988	N	7	1.6378	-1.0301	.6543	-.2634
27	COLA	15.988	O	8	2.0063	-1.5554	.9057	-.3583
27	COLA	15.988	F	9	2.3920	-2.1271	1.2343	-.5010
27	COLA	15.988	NA	11	.8582	.2121	-.1055	.0357
27	COLA	15.988	MG	12	.9356	.1045	-.0546	.0146
27	COLA	15.988	AL	13	.9999	.0073	-.0082	.0011
27	COLA	15.988	SI	14	1.1002	-.1084	.0132	-.0050
27	COLA	15.988	P	15	1.1812	-.2087	.0385	-.0109
27	COLA	15.988	S	16	1.3020	-.3358	.0462	-.0125
27	COLA	15.988	CL	17	1.3957	-.4392	.0641	-.0206
27	COLA	15.988	K	19	1.6639	-.7046	.0749	-.0342
27	COLA	15.988	CA	20	1.8269	-.8595	.0740	-.0412
27	COLA	15.988	SC	21	1.9378	-.9638	.0954	-.0691
27	COLA	15.988	TI	22	2.0899	-1.1022	.1052	-.0924
27	COLA	15.988	V	23	2.2505	-1.2450	.1148	-.1196
27	COLA	15.988	CR	24	2.4495	-1.4252	.1207	-.1438
27	COLA	15.988	MN	25	2.6308	-1.5819	.1310	-.1783
27	COLA	15.988	FE	26	2.6538	-1.5828	.1056	-.1750
27	COLA	15.988	NI	28	1.0634	-.0633	-.0001	-.0001
27	COLA	15.988	CU	29	1.0884	-.0851	-.0032	-.0001
27	COLA	15.988	ZN	30	1.1387	-.1318	-.0063	-.0006
27	COLA	15.988	GA	31	1.1709	-.1560	-.0135	-.0014
27	COLA	15.988	GE	32	1.2152	-.1921	-.0203	-.0028
27	COLA	15.988	Y	39	1.5761	-.4709	-.0697	-.0354
27	COLA	15.988	ZR	40	1.6324	-.5116	-.0763	-.0443
27	COLA	15.988	NB	41	1.6948	-.5599	-.0798	-.0548
27	COLA	15.988	MO	42	1.7482	-.5924	-.0897	-.0658
27	COLA	15.988	PD	46	2.0000	-.7581	-.1144	-.1267
27	COLA	15.988	AG	47	2.0767	-.8162	-.1120	-.1475
27	COLA	15.988	CD	48	1.9242	-.6828	-.1244	-.1163
27	COLA	15.988	SN	50	1.8405	-.6028	-.1339	-.1031
27	COLA	15.988	SB	51	1.7482	-.5289	-.1335	-.0853
27	COLA	15.988	CS	55	1.9832	-.6643	-.1660	-.1518
27	COLA	15.988	BA	56	1.0865	-.0358	-.0559	.0053
27	COLA	15.988	LA	57	1.1059	-.0512	-.0595	.0048
27	COLA	15.988	CE	58	1.1269	-.0686	-.0623	.0040

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
27	COLA	15.988	HF	72	1.3404	-.1663	-.1613	-.0125
27	COLA	15.988	TA	73	1.3559	-.1730	-.1681	-.0145
27	COLA	15.988	W	74	1.3700	-.1769	-.1765	-.0162
27	COLA	15.988	RE	75	1.3859	-.1839	-.1832	-.0184
27	COLA	15.988	PT	78	1.4288	-.1934	-.2104	-.0244
27	COLA	15.988	AU	79	1.4471	-.2031	-.2161	-.0274
27	COLA	15.988	PB	82	1.4904	-.2044	-.2512	-.0340
27	COLA	15.988	TH	90	1.6483	-.2233	-.3606	-.0627
27	COLA	15.988	U	92	1.6987	-.2252	-.4021	-.0693
28	NIKA	1.658	B	5	1.0474	-.0385	-.0072	-.0016
28	NIKA	1.658	C	6	1.0817	-.0657	-.0148	-.0010
28	NIKA	1.658	N	7	1.0762	-.0621	-.0131	-.0008
28	NIKA	1.658	O	8	1.0715	-.0598	-.0102	-.0015
28	NIKA	1.658	F	9	1.0389	-.0343	-.0023	-.0022
28	NIKA	1.658	NA	11	1.0378	-.0353	.0011	-.0035
28	NIKA	1.658	MG	12	1.0519	-.0488	.0018	-.0048
28	NIKA	1.658	AL	13	1.0376	-.0368	.0037	-.0045
28	NIKA	1.658	SI	14	1.0542	-.0512	.0007	-.0036
28	NIKA	1.658	P	15	1.0386	-.0366	-.0003	-.0016
28	NIKA	1.658	S	16	1.0544	-.0513	-.0016	-.0014
28	NIKA	1.658	CL	17	1.0344	-.0335	.0001	-.0008
28	NIKA	1.658	K	19	1.0441	-.0442	.0020	-.0018
28	NIKA	1.658	CA	20	1.0599	-.0595	.0014	-.0018
28	NIKA	1.658	SC	21	1.0281	-.0292	.0028	-.0017
28	NIKA	1.658	TI	22	1.0222	-.0231	.0026	-.0017
28	NIKA	1.658	V	23	1.0167	-.0170	.0017	-.0015
28	NIKA	1.658	CR	24	1.0316	-.0316	.0015	-.0014
28	NIKA	1.658	MN	25	1.0280	-.0268	-.0008	-.0004
28	NIKA	1.658	FE	26	1.0440	-.0423	-.0026	.0008
28	NIKA	1.658	CO	27	.9805	.0198	-.0013	.0011
28	NIKA	1.658	CU	29	.9429	.1247	-.1199	.0527
28	NIKA	1.658	ZN	30	.8011	.4466	-.4163	.1698
28	NIKA	1.658	GA	31	.8354	.3343	-.2819	.1129
28	NIKA	1.658	GE	32	.8680	.2455	-.1853	.0723
28	NIKA	1.658	Y	39	.9618	.0451	-.0086	.0018
28	NIKA	1.658	ZR	40	.9643	.0425	-.0082	.0014
28	NIKA	1.658	NB	41	.9694	.0373	-.0079	.0011
28	NIKA	1.658	MO	42	.9670	.0408	-.0090	.0012
28	NIKA	1.658	PD	46	.9664	.0449	-.0124	.0011
28	NIKA	1.658	AG	47	.9715	.0398	-.0123	.0010
28	NIKA	1.658	CD	48	.9634	.0506	-.0154	.0014
28	NIKA	1.658	SN	50	.9601	.0575	-.0199	.0023
28	NIKA	1.658	SB	51	.9589	.0606	-.0223	.0028
28	NIKA	1.658	CS	55	.9605	.0644	-.0281	.0031
28	NIKA	1.658	BA	56	.9556	.0726	-.0319	.0037

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
28	NIKA	1.658	LA	57	.9609	.0672	-.0310	.0030
28	NIKA	1.658	CE	58	.9670	.0607	-.0301	.0024
28	NIKA	1.658	HF	72	.9056	.1257	-.0363	.0048
28	NIKA	1.658	TA	73	.9065	.1259	-.0374	.0051
28	NIKA	1.658	W	74	.8230	.2217	-.0541	.0094
28	NIKA	1.658	RE	75	.8348	.2059	-.0488	.0081
28	NIKA	1.658	PT	78	.8609	.1754	-.0440	.0077
28	NIKA	1.658	AU	79	.8699	.1654	-.0432	.0079
28	NIKA	1.658	PB	82	.8837	.1558	-.0496	.0101
28	NIKA	1.658	TH	90	.9055	.1517	-.0715	.0144
28	NIKA	1.658	U	92	.9094	.1522	-.0764	.0148
28	NILA	14.564	B	5	.9859	-.0718	.1685	-.0832
28	NILA	14.564	C	6	1.2096	-.3889	.3198	-.1413
28	NILA	14.564	N	7	1.4519	-.7521	.5107	-.2117
28	NILA	14.564	O	8	1.7447	-1.1699	.7152	-.2915
28	NILA	14.564	F	9	2.0463	-1.6191	.9810	-.4100
28	NILA	14.564	NA	11	.8256	.2554	-.1319	.0514
28	NILA	14.564	MG	12	.8914	.1578	-.0739	.0250
28	NILA	14.564	AL	13	.9426	.0729	-.0228	.0075
28	NILA	14.564	SI	14	1.0268	-.0271	.0017	-.0013
28	NILA	14.564	P	15	1.0910	-.1105	.0276	-.0081
28	NILA	14.564	S	16	1.1918	-.2181	.0371	-.0108
28	NILA	14.564	CL	17	1.2654	-.3012	.0529	-.0171
28	NILA	14.564	K	19	1.4854	-.5202	.0623	-.0276
28	NILA	14.564	CA	20	1.6207	-.6493	.0617	-.0330
28	NILA	14.564	SC	21	1.7057	-.7270	.0749	-.0535
28	NILA	14.564	TI	22	1.8280	-.8367	.0803	-.0712
28	NILA	14.564	V	23	1.9570	-.9495	.0853	-.0925
28	NILA	14.564	CR	24	2.1208	-1.0974	.0895	-.1122
28	NILA	14.564	MN	25	2.2665	-1.2210	.0958	-.1402
28	NILA	14.564	FE	26	2.4476	-1.3827	.1032	-.1668
28	NILA	14.564	CO	27	2.4153	-1.3265	.0765	-.1639
28	NILA	14.564	CU	29	1.0182	-.0164	-.0018	.0000
28	NILA	14.564	ZN	30	1.0603	-.0559	-.0043	-.0001
28	NILA	14.564	GA	31	1.0853	-.0746	-.0104	-.0003
28	NILA	14.564	GE	32	1.1218	-.1045	-.0165	-.0008
28	NILA	14.564	Y	39	1.4239	-.3373	-.0667	-.0198
28	NILA	14.564	ZR	40	1.4711	-.3710	-.0744	-.0256
28	NILA	14.564	NB	41	1.5238	-.4115	-.0795	-.0327
28	NILA	14.564	MO	42	1.5676	-.4367	-.0908	-.0399
28	NILA	14.564	PD	46	1.7778	-.5711	-.1233	-.0829
28	NILA	14.564	AG	47	1.8426	-.6194	-.1243	-.0983
28	NILA	14.564	CD	48	1.8894	-.6343	-.1426	-.1118
28	NILA	14.564	SN	50	1.8248	-.5680	-.1540	-.1021
28	NILA	14.564	SB	51	1.6946	-.4686	-.1498	-.0757

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
28	NILA	14.564	CS	55	1.7643	-.4896	-.1758	-.0983
28	NILA	14.564	BA	56	1.8082	-.5015	-.1949	-.1110
28	NILA	14.564	LA	57	1.2053	-.1068	-.0950	-.0034
28	NILA	14.564	CE	58	1.0602	-.0070	-.0595	.0063
28	NILA	14.564	HF	72	1.2456	-.0900	-.1548	-.0005
28	NILA	14.564	TA	73	1.2592	-.0959	-.1615	-.0017
28	NILA	14.564	W	74	1.2714	-.0990	-.1696	-.0026
28	NILA	14.564	RE	75	1.2855	-.1052	-.1760	-.0040
28	NILA	14.564	PT	78	1.3230	-.1133	-.2018	-.0075
28	NILA	14.564	AU	79	1.3392	-.1220	-.2072	-.0096
28	NILA	14.564	PB	82	1.3769	-.1228	-.2397	-.0138
28	NILA	14.564	TH	90	1.5160	-.1437	-.3333	-.0379
28	NILA	14.564	U	92	1.5610	-.1512	-.3603	-.0483
29	CUKA	1.541	B	5	1.0758	-.0630	-.0093	-.0034
29	CUKA	1.541	C	6	1.1107	-.0894	-.0190	-.0023
29	CUKA	1.541	N	7	1.1048	-.0856	-.0172	-.0019
29	CUKA	1.541	O	8	1.0997	-.0827	-.0148	-.0020
29	CUKA	1.541	F	9	1.0658	-.0563	-.0077	-.0018
29	CUKA	1.541	NA	11	1.0639	-.0582	-.0008	-.0049
29	CUKA	1.541	MG	12	1.0777	-.0715	.0003	-.0065
29	CUKA	1.541	AL	13	1.0626	-.0591	.0027	-.0062
29	CUKA	1.541	SI	14	1.0788	-.0728	-.0006	-.0054
29	CUKA	1.541	P	15	1.0621	-.0577	-.0011	-.0033
29	CUKA	1.541	S	16	1.0774	-.0717	-.0026	-.0031
29	CUKA	1.541	CL	17	1.0561	-.0528	-.0016	-.0017
29	CUKA	1.541	K	19	1.0640	-.0609	-.0024	-.0008
29	CUKA	1.541	CA	20	1.0794	-.0766	-.0010	-.0019
29	CUKA	1.541	SC	21	1.0460	-.0457	.0008	-.0011
29	CUKA	1.541	TI	22	1.0389	-.0387	.0002	-.0004
29	CUKA	1.541	V	23	1.0322	-.0319	-.0007	.0003
29	CUKA	1.541	CR	24	1.0461	-.0453	-.0019	.0010
29	CUKA	1.541	MN	25	1.0414	-.0403	-.0026	.0015
29	CUKA	1.541	FE	26	1.0564	-.0555	-.0030	.0020
29	CUKA	1.541	CO	27	1.0514	-.0523	.0018	-.0009
29	CUKA	1.541	NI	28	1.0225	-.0221	-.0004	-.0000
29	CUKA	1.541	ZN	30	.9612	.1168	-.1386	.0610
29	CUKA	1.541	GA	31	.7974	.4593	-.4303	.1747
29	CUKA	1.541	GE	32	.8417	.3405	-.3023	.1209
29	CUKA	1.541	Y	39	.9774	.0273	-.0062	.0016
29	CUKA	1.541	ZR	40	.9807	.0229	-.0046	.0010
29	CUKA	1.541	NB	41	.9861	.0172	-.0041	.0009
29	CUKA	1.541	MO	42	.9834	.0207	-.0051	.0010
29	CUKA	1.541	PD	46	.9807	.0260	-.0080	.0012
29	CUKA	1.541	AG	47	.9854	.0212	-.0077	.0011
29	CUKA	1.541	CD	48	.9767	.0320	-.0100	.0013

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
29	CUKA	1.541	SN	50	.9723	.0394	-.0139	.0022
29	CUKA	1.541	SB	51	.9706	.0427	-.0159	.0027
29	CUKA	1.541	CS	55	.9700	.0471	-.0195	.0023
29	CUKA	1.541	BA	56	.9645	.0552	-.0224	.0027
29	CUKA	1.541	LA	57	.9691	.0504	-.0216	.0021
29	CUKA	1.541	CE	58	.9748	.0444	-.0211	.0019
29	CUKA	1.541	HF	72	.9207	.1018	-.0245	.0020
29	CUKA	1.541	TA	73	.9211	.1021	-.0254	.0022
29	CUKA	1.541	W	74	.9205	.1037	-.0267	.0025
29	CUKA	1.541	RE	75	.9213	.1036	-.0278	.0029
29	CUKA	1.541	PT	78	.8500	.1824	-.0384	.0060
29	CUKA	1.541	AU	79	.8619	.1678	-.0353	.0055
29	CUKA	1.541	PB	82	.8828	.1466	-.0359	.0065
29	CUKA	1.541	TH	90	.9118	.1314	-.0539	.0107
29	CUKA	1.541	U	92	.9157	.1313	-.0576	.0106
29	CULA	13.322	B	5	.9704	-.0142	.1039	-.0605
29	CULA	13.322	C	6	1.1614	-.2789	.2226	-.1058
29	CULA	13.322	N	7	1.3629	-.5796	.3734	-.1576
29	CULA	13.322	O	8	1.6072	-.9252	.5320	-.2152
29	CULA	13.322	F	9	1.8541	-1.2932	.7422	-.3045
29	CULA	13.322	NA	11	.8316	.2766	-.1746	.0671
29	CULA	13.322	MG	12	.8891	.1898	-.1202	.0418
29	CULA	13.322	AL	13	.9324	.1063	-.0564	.0179
29	CULA	13.322	SI	14	1.0071	.0130	-.0255	.0056
29	CULA	13.322	P	15	1.0603	-.0632	.0052	-.0024
29	CULA	13.322	S	16	1.1487	-.1602	.0168	-.0054
29	CULA	13.322	CL	17	1.2090	-.2334	.0344	-.0101
29	CULA	13.322	K	19	1.3984	-.4268	.0440	-.0157
29	CULA	13.322	CA	20	1.5164	-.5409	.0423	-.0178
29	CULA	13.322	SC	21	1.5839	-.6062	.0551	-.0327
29	CULA	13.322	TI	22	1.6871	-.7010	.0592	-.0452
29	CULA	13.322	V	23	1.7960	-.7981	.0632	-.0609
29	CULA	13.322	CR	24	1.9377	-.9271	.0641	-.0743
29	CULA	13.322	MN	25	2.0607	-1.0334	.0694	-.0961
29	CULA	13.322	FE	26	2.2173	-1.1741	.0731	-.1155
29	CULA	13.322	CO	27	2.3509	-1.2862	.0812	-.1447
29	CULA	13.322	NI	28	2.3454	-1.2700	.0570	-.1313
29	CULA	13.322	ZN	30	1.0370	-.0366	-.0004	-.0000
29	CULA	13.322	GA	31	1.0567	-.0535	-.0031	-.0000
29	CULA	13.322	GE	32	1.0881	-.0814	-.0064	-.0003
29	CULA	13.322	Y	39	1.3524	-.2990	-.0415	-.0119
29	CULA	13.322	ZR	40	1.3938	-.3305	-.0475	-.0158
29	CULA	13.322	NB	41	1.4406	-.3682	-.0517	-.0206
29	CULA	13.322	MO	42	1.4777	-.3906	-.0615	-.0255
29	CULA	13.322	PD	46	1.6618	-.5165	-.0878	-.0573

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
29	CULA	13.322	AG	47	1.7193	-.5612	-.0891	-.0687
29	CULA	13.322	CD	48	1.7590	-.5754	-.1036	-.0795
29	CULA	13.322	SN	50	1.7025	-.5180	-.1117	-.0723
29	CULA	13.322	SB	51	1.7531	-.5474	-.1206	-.0847
29	CULA	13.322	CS	55	1.6501	-.4520	-.1282	-.0695
29	CULA	13.322	BA	56	1.6877	-.4639	-.1438	-.0795
29	CULA	13.322	LA	57	1.7409	-.5014	-.1458	-.0931
29	CULA	13.322	CE	58	1.7971	-.5429	-.1452	-.1082
29	CULA	13.322	HF	72	1.2111	-.1009	-.1113	.0012
29	CULA	13.322	TA	73	1.2236	-.1072	-.1166	.0004
29	CULA	13.322	W	74	1.2347	-.1112	-.1230	-.0003
29	CULA	13.322	RE	75	1.2476	-.1180	-.1281	-.0013
29	CULA	13.322	PT	78	1.2816	-.1286	-.1487	-.0041
29	CULA	13.322	AU	79	1.2967	-.1379	-.1527	-.0058
29	CULA	13.322	PB	82	1.3307	-.1421	-.1791	-.0092
29	CULA	13.322	TH	90	1.4576	-.1736	-.2537	-.0296
29	CULA	13.322	U	92	1.4988	-.1845	-.2748	-.0386
30	ZNKA	1.435	B	5	1.0784	-.0662	-.0079	-.0043
30	ZNKA	1.435	C	6	1.1131	-.0921	-.0185	-.0025
30	ZNKA	1.435	N	7	1.1069	-.0876	-.0173	-.0019
30	ZNKA	1.435	O	8	1.1014	-.0844	-.0147	-.0023
30	ZNKA	1.435	F	9	1.0672	-.0579	-.0072	-.0020
30	ZNKA	1.435	NA	11	1.0647	-.0599	.0013	-.0061
30	ZNKA	1.435	MG	12	1.0780	-.0720	.0011	-.0071
30	ZNKA	1.435	AL	13	1.0623	-.0590	.0034	-.0067
30	ZNKA	1.435	SI	14	1.0779	-.0720	.0001	-.0061
30	ZNKA	1.435	P	15	1.0606	-.0562	-.0006	-.0039
30	ZNKA	1.435	S	16	1.0752	-.0695	-.0018	-.0039
30	ZNKA	1.435	CL	17	1.0532	-.0501	-.0006	-.0026
30	ZNKA	1.435	K	19	1.0596	-.0560	-.0024	-.0011
30	ZNKA	1.435	CA	20	1.0739	-.0690	-.0051	.0001
30	ZNKA	1.435	SC	21	1.0398	-.0374	-.0041	.0018
30	ZNKA	1.435	TI	22	1.0321	-.0314	-.0011	.0004
30	ZNKA	1.435	V	23	1.0245	-.0236	-.0028	.0019
30	ZNKA	1.435	CR	24	1.0374	-.0361	-.0036	.0024
30	ZNKA	1.435	MN	25	1.0318	-.0309	-.0032	.0024
30	ZNKA	1.435	FE	26	1.0457	-.0456	-.0015	.0015
30	ZNKA	1.435	CO	27	1.0396	-.0416	.0042	-.0022
30	ZNKA	1.435	NI	28	1.0629	-.0628	-.0001	-.0000
30	ZNKA	1.435	CU	29	.9977	.0022	.0000	.0000
30	ZNKA	1.435	GA	31	.9419	.1366	-.1390	.0609
30	ZNKA	1.435	GE	32	.7885	.4673	-.4280	.1733
30	ZNKA	1.435	Y	39	.9691	.0376	-.0088	.0022
30	ZNKA	1.435	ZR	40	.9738	.0296	-.0035	.0001
30	ZNKA	1.435	NB	41	.9796	.0226	-.0019	-.0003

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p0	p1	p2	p3
30	ZNKA	1.435	MO	42	.9769	.0260	-.0028	-.0001
30	ZNKA	1.435	PD	46	.9726	.0334	-.0072	.0012
30	ZNKA	1.435	AG	47	.9769	.0292	-.0075	.0014
30	ZNKA	1.435	CD	48	.9678	.0403	-.0097	.0016
30	ZNKA	1.435	SN	50	.9625	.0487	-.0142	.0030
30	ZNKA	1.435	SB	51	.9604	.0525	-.0164	.0036
30	ZNKA	1.435	CS	55	.9580	.0584	-.0196	.0032
30	ZNKA	1.435	BA	56	.9520	.0664	-.0213	.0030
30	ZNKA	1.435	LA	57	.9561	.0623	-.0212	.0029
30	ZNKA	1.435	CE	58	.9613	.0568	-.0208	.0027
30	ZNKA	1.435	HF	72	.9138	.1080	-.0237	.0018
30	ZNKA	1.435	TA	73	.9141	.1083	-.0245	.0020
30	ZNKA	1.435	W	74	.9132	.1102	-.0257	.0023
30	ZNKA	1.435	RE	75	.9138	.1100	-.0260	.0021
30	ZNKA	1.435	PT	78	.9114	.1154	-.0297	.0029
30	ZNKA	1.435	AU	79	.8291	.2056	-.0410	.0063
30	ZNKA	1.435	PB	82	.8581	.1717	-.0354	.0056
30	ZNKA	1.435	TH	90	.8970	.1434	-.0507	.0103
30	ZNKA	1.435	U	92	.9012	.1431	-.0548	.0106
30	ZNLA	12.232	B	5	.9438	.0343	.0669	-.0453
30	ZNLA	12.232	C	6	1.1050	-.1847	.1625	-.0833
30	ZNLA	12.232	N	7	1.2697	-.4311	.2857	-.1250
30	ZNLA	12.232	O	8	1.4703	-.7146	.4139	-.1706
30	ZNLA	12.232	F	9	1.6689	-1.0124	.5831	-.2409
30	ZNLA	12.232	NA	11	.8461	.2015	-.0545	.0070
30	ZNLA	12.232	MG	12	.8725	.2277	-.1612	.0617
30	ZNLA	12.232	AL	13	.9088	.1455	-.0839	.0300
30	ZNLA	12.232	SI	14	.9745	.0583	-.0456	.0129
30	ZNLA	12.232	P	15	1.0179	-.0103	-.0098	.0022
30	ZNLA	12.232	S	16	1.0944	-.0967	.0048	-.0025
30	ZNLA	12.232	CL	17	1.1426	-.1593	.0237	-.0070
30	ZNLA	12.232	K	19	1.3032	-.3265	.0347	-.0114
30	ZNLA	12.232	CA	20	1.4047	-.4258	.0335	-.0124
30	ZNLA	12.232	SC	21	1.4568	-.4776	.0439	-.0231
30	ZNLA	12.232	TI	22	1.5426	-.5569	.0464	-.0320
30	ZNLA	12.232	V	23	1.6330	-.6377	.0482	-.0434
30	ZNLA	12.232	CR	24	1.7541	-.7483	.0473	-.0530
30	ZNLA	12.232	MN	25	1.8565	-.8365	.0499	-.0696
30	ZNLA	12.232	FE	26	1.9903	-.9569	.0513	-.0842
30	ZNLA	12.232	CO	27	2.1012	-1.0495	.0564	-.1074
30	ZNLA	12.232	NI	28	2.2606	-1.1949	.0600	-.1247
30	ZNLA	12.232	CU	29	2.1776	-1.0939	.0388	-.1217
30	ZNLA	12.232	GA	31	1.0150	-.0139	-.0011	.0000
30	ZNLA	12.232	GE	32	1.0412	-.0379	-.0033	.0000
30	ZNLA	12.232	Y	39	1.2682	-.2300	-.0319	-.0064

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
30	ZNLA	12.232	ZR	40	1.3039	-.2578	-.0373	-.0088
30	ZNLA	12.232	NB	41	1.3447	-.2913	-.0414	-.0119
30	ZNLA	12.232	MO	42	1.3754	-.3092	-.0514	-.0147
30	ZNLA	12.232	PD	46	1.5340	-.4198	-.0771	-.0369
30	ZNLA	12.232	AG	47	1.5842	-.4594	-.0795	-.0452
30	ZNLA	12.232	CD	48	1.6172	-.4708	-.0932	-.0529
30	ZNLA	12.232	SN	50	1.7050	-.5210	-.1107	-.0729
30	ZNLA	12.232	SB	51	1.7517	-.5477	-.1189	-.0846
30	ZNLA	12.232	CS	55	1.6361	-.4435	-.1258	-.0665
30	ZNLA	12.232	BA	56	1.5551	-.3745	-.1284	-.0519
30	ZNLA	12.232	LA	57	1.6015	-.4076	-.1317	-.0619
30	ZNLA	12.232	CE	58	1.6507	-.4443	-.1329	-.0731
30	ZNLA	12.232	HF	72	1.1578	-.0669	-.0956	.0048
30	ZNLA	12.232	TA	73	1.1690	-.0729	-.1004	.0044
30	ZNLA	12.232	W	74	1.1789	-.0767	-.1062	.0041
30	ZNLA	12.232	RE	75	1.1905	-.0830	-.1108	.0035
30	ZNLA	12.232	PT	78	1.2207	-.0931	-.1295	.0021
30	ZNLA	12.232	AU	79	1.2343	-.1018	-.1333	.0010
30	ZNLA	12.232	PB	82	1.2644	-.1061	-.1572	-.0008
30	ZNLA	12.232	TH	90	1.3776	-.1371	-.2250	-.0151
30	ZNLA	12.232	U	92	1.4145	-.1477	-.2443	-.0219
31	GAKA	1.340	B	5	1.1016	-.0864	-.0092	-.0060
31	GAKA	1.340	C	6	1.1368	-.1115	-.0215	-.0037
31	GAKA	1.340	N	7	1.1302	-.1072	-.0195	-.0034
31	GAKA	1.340	O	8	1.1243	-.1032	-.0180	-.0031
31	GAKA	1.340	F	9	1.0891	-.0761	-.0103	-.0026
31	GAKA	1.340	NA	11	1.0856	-.0762	-.0046	-.0048
31	GAKA	1.340	MG	12	1.0989	-.0892	-.0030	-.0068
31	GAKA	1.340	AL	13	1.0826	-.0772	.0027	-.0082
31	GAKA	1.340	SI	14	1.0980	-.0889	-.0029	-.0063
31	GAKA	1.340	P	15	1.0797	-.0724	-.0035	-.0039
31	GAKA	1.340	S	16	1.0941	-.0856	-.0042	-.0044
31	GAKA	1.340	CL	17	1.0710	-.0656	-.0027	-.0028
31	GAKA	1.340	K	19	1.0762	-.0710	-.0031	-.0023
31	GAKA	1.340	CA	20	1.0900	-.0831	-.0062	-.0008
31	GAKA	1.340	SC	21	1.0546	-.0504	-.0062	.0019
31	GAKA	1.340	TI	22	1.0459	-.0418	-.0080	.0039
31	GAKA	1.340	V	23	1.0375	-.0342	-.0078	.0045
31	GAKA	1.340	CR	24	1.0500	-.0479	-.0051	.0031
31	GAKA	1.340	MN	25	1.0435	-.0426	-.0033	.0025
31	GAKA	1.340	FE	26	1.0567	-.0569	-.0006	.0008
31	GAKA	1.340	CO	27	1.0497	-.0521	.0052	-.0027
31	GAKA	1.340	NI	28	1.0721	-.0717	-.0004	-.0000
31	GAKA	1.340	CU	29	1.0509	-.0508	-.0000	-.0000
31	GAKA	1.340	ZN	30	1.0166	-.0164	-.0002	-.0000

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
31	GAKA	1.340	GE	32	.9489	.1369	-.1518	.0665
31	GAKA	1.340	Y	39	.9777	.0333	-.0168	.0058
31	GAKA	1.340	ZR	40	.9848	.0198	-.0066	.0020
31	GAKA	1.340	NB	41	.9919	.0099	-.0022	.0004
31	GAKA	1.340	MO	42	.9894	.0114	-.0000	-.0008
31	GAKA	1.340	PD	46	.9839	.0186	-.0023	-.0002
31	GAKA	1.340	AG	47	.9879	.0149	-.0030	.0003
31	GAKA	1.340	CD	48	.9783	.0263	-.0056	.0010
31	GAKA	1.340	SN	50	.9721	.0356	-.0105	.0028
31	GAKA	1.340	SB	51	.9696	.0395	-.0125	.0035
31	GAKA	1.340	CS	55	.9656	.0466	-.0156	.0034
31	GAKA	1.340	BA	56	.9592	.0545	-.0166	.0029
31	GAKA	1.340	LA	57	.9629	.0507	-.0164	.0028
31	GAKA	1.340	CE	58	.9677	.0451	-.0147	.0018
31	GAKA	1.340	HF	72	.9247	.0920	-.0175	.0007
31	GAKA	1.340	TA	73	.9247	.0921	-.0175	.0006
31	GAKA	1.340	W	74	.9237	.0940	-.0186	.0008
31	GAKA	1.340	RE	75	.9241	.0938	-.0186	.0007
31	GAKA	1.340	PT	78	.9210	.0996	-.0217	.0011
31	GAKA	1.340	AU	79	.9226	.0980	-.0219	.0012
31	GAKA	1.340	PB	82	.8416	.1870	-.0334	.0048
31	GAKA	1.340	TH	90	.8986	.1327	-.0389	.0075
31	GAKA	1.340	U	92	.9042	.1305	-.0427	.0080
31	GALA	11.270	B	5	.9427	.0596	.0316	-.0341
31	GALA	11.270	C	6	1.0828	-.1260	.1084	-.0656
31	GALA	11.270	N	7	1.2206	-.3328	.2091	-.0975
31	GALA	11.270	O	8	1.3895	-.5710	.3121	-.1314
31	GALA	11.270	F	9	1.5527	-.8181	.4486	-.1841
31	GALA	11.270	NA	11	2.0178	-1.4069	.6645	-.2763
31	GALA	11.270	MG	12	.8770	.2477	-.2006	.0768
31	GALA	11.270	AL	13	.9061	.1753	-.1287	.0478
31	GALA	11.270	SI	14	.9662	.0884	-.0781	.0238
31	GALA	11.270	P	15	1.0026	.0216	-.0330	.0088
31	GALA	11.270	S	16	1.0710	-.0590	-.0137	.0017
31	GALA	11.270	CL	17	1.1102	-.1156	.0087	-.0032
31	GALA	11.270	K	19	1.2498	-.2659	.0228	-.0067
31	GALA	11.270	CA	20	1.3394	-.3550	.0223	-.0067
31	GALA	11.270	SC	21	1.3799	-.3988	.0331	-.0141
31	GALA	11.270	TI	22	1.4528	-.4683	.0354	-.0199
31	GALA	11.270	V	23	1.5296	-.5388	.0370	-.0278
31	GALA	11.270	CR	24	1.6360	-.6369	.0346	-.0337
31	GALA	11.270	MN	25	1.7234	-.7136	.0361	-.0457
31	GALA	11.270	FE	26	1.8408	-.8201	.0351	-.0556
31	GALA	11.270	CO	27	1.9353	-.9001	.0385	-.0733
31	GALA	11.270	NI	28	2.0764	-1.0291	.0382	-.0849

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
31	GALA	11.270	CU	29	2.0019	-.9416	.0244	-.0841
31	GALA	11.270	ZN	30	2.1050	-1.0291	.0262	-.1014
31	GALA	11.270	GE	32	1.0224	-.0219	-.0005	-.0000
31	GALA	11.270	Y	39	1.2211	-.1991	-.0185	-.0035
31	GALA	11.270	ZR	40	1.2526	-.2250	-.0226	-.0050
31	GALA	11.270	NB	41	1.2889	-.2562	-.0257	-.0070
31	GALA	11.270	MO	42	1.3142	-.2705	-.0355	-.0082
31	GALA	11.270	PD	46	1.4542	-.3745	-.0554	-.0241
31	GALA	11.270	AG	47	1.4991	-.4113	-.0576	-.0300
31	GALA	11.270	CD	48	1.5271	-.4221	-.0690	-.0359
31	GALA	11.270	SN	50	1.6039	-.4687	-.0841	-.0508
31	GALA	11.270	SB	51	1.6449	-.4934	-.0914	-.0597
31	GALA	11.270	CS	55	1.6916	-.5084	-.1076	-.0752
31	GALA	11.270	BA	56	1.5741	-.4123	-.1081	-.0534
31	GALA	11.270	LA	57	1.5127	-.3700	-.0997	-.0428
31	GALA	11.270	CE	58	1.5569	-.4042	-.1012	-.0512
31	GALA	11.270	HF	72	1.1324	-.0673	-.0698	.0048
31	GALA	11.270	TA	73	1.1426	-.0735	-.0736	.0045
31	GALA	11.270	W	74	1.1515	-.0775	-.0784	.0044
31	GALA	11.270	RE	75	1.1621	-.0840	-.0821	.0040
31	GALA	11.270	PT	78	1.1894	-.0950	-.0975	.0032
31	GALA	11.270	AU	79	1.2020	-.1038	-.1005	.0024
31	GALA	11.270	PB	82	1.2290	-.1095	-.1205	.0012
31	GALA	11.270	TH	90	1.3319	-.1443	-.1779	-.0094
31	GALA	11.270	U	92	1.3655	-.1562	-.1940	-.0148
32	GEKA	1.254	B	5	1.1126	-.0954	-.0123	-.0050
32	GEKA	1.254	C	6	1.1480	-.1210	-.0232	-.0038
32	GEKA	1.254	N	7	1.1412	-.1169	-.0202	-.0041
32	GEKA	1.254	O	8	1.1351	-.1130	-.0179	-.0041
32	GEKA	1.254	F	9	1.0992	-.0849	-.0114	-.0028
32	GEKA	1.254	NA	11	1.0949	-.0840	-.0061	-.0048
32	GEKA	1.254	MG	12	1.1079	-.0954	-.0075	-.0051
32	GEKA	1.254	AL	13	1.0910	-.0829	-.0015	-.0066
32	GEKA	1.254	SI	14	1.1064	-.0964	-.0031	-.0070
32	GEKA	1.254	P	15	1.0874	-.0780	-.0072	-.0022
32	GEKA	1.254	S	16	1.1014	-.0910	-.0072	-.0032
32	GEKA	1.254	CL	17	1.0777	-.0714	-.0032	-.0032
32	GEKA	1.254	K	19	1.0818	-.0756	-.0042	-.0020
32	GEKA	1.254	CA	20	1.0951	-.0874	-.0067	-.0010
32	GEKA	1.254	SC	21	1.0588	-.0549	-.0046	.0007
32	GEKA	1.254	TI	22	1.0494	-.0457	-.0061	.0023
32	GEKA	1.254	V	23	1.0402	-.0371	-.0065	.0033
32	GEKA	1.254	CR	24	1.0518	-.0476	-.0088	.0047
32	GEKA	1.254	MN	25	1.0448	-.0423	-.0065	.0042
32	GEKA	1.254	FE	26	1.0576	-.0583	.0013	-.0005

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
32	GEKA	1.254	CO	27	1.0496	-.0521	.0059	-.0034
32	GEKA	1.254	NI	28	1.0712	-.0703	-.0008	-.0000
32	GEKA	1.254	CU	29	1.0491	-.0490	-.0001	-.0000
32	GEKA	1.254	ZN	30	1.0532	-.0532	-.0001	-.0000
32	GEKA	1.254	GA	31	1.0052	-.0051	-.0000	-.0000
32	GEKA	1.254	Y	39	.9736	.0459	-.0308	.0113
32	GEKA	1.254	ZR	40	.9845	.0231	-.0116	.0040
32	GEKA	1.254	NB	41	.9935	.0086	-.0030	.0009
32	GEKA	1.254	MO	42	.9914	.0096	-.0010	.0000
32	GEKA	1.254	PD	46	.9848	.0161	.0006	-.0015
32	GEKA	1.254	AG	47	.9885	.0122	.0007	-.0014
32	GEKA	1.254	CD	48	.9787	.0236	-.0014	-.0009
32	GEKA	1.254	SN	50	.9717	.0345	-.0085	.0024
32	GEKA	1.254	SB	51	.9690	.0383	-.0103	.0030
32	GEKA	1.254	CS	55	.9636	.0463	-.0126	.0027
32	GEKA	1.254	BA	56	.9568	.0548	-.0144	.0028
32	GEKA	1.254	LA	57	.9602	.0506	-.0125	.0016
32	GEKA	1.254	CE	58	.9647	.0462	-.0129	.0020
32	GEKA	1.254	HF	72	.9433	.0740	-.0181	.0007
32	GEKA	1.254	TA	73	.9252	.0902	-.0164	.0009
32	GEKA	1.254	W	74	.9240	.0922	-.0173	.0011
32	GEKA	1.254	RE	75	.9242	.0924	-.0179	.0013
32	GEKA	1.254	PT	78	.9206	.0974	-.0188	.0007
32	GEKA	1.254	AU	79	.9220	.0962	-.0190	.0008
32	GEKA	1.254	PB	82	.9160	.1054	-.0228	.0014
32	GEKA	1.254	TH	90	.8890	.1382	-.0336	.0063
32	GEKA	1.254	U	92	.8970	.1334	-.0374	.0070
32	GELA	10.416	B	5	.9377	.0786	.0098	-.0263
32	GELA	10.416	C	6	1.0595	-.0786	.0721	-.0532
32	GELA	10.416	N	7	1.1740	-.2514	.1560	-.0790
32	GELA	10.416	O	8	1.3153	-.4512	.2410	-.1056
32	GELA	10.416	F	9	1.4480	-.6555	.3529	-.1462
32	GELA	10.416	NA	11	1.8410	-1.1500	.5259	-.2177
32	GELA	10.416	MG	12	.8723	.2858	-.2650	.1081
32	GELA	10.416	AL	13	.8975	.2106	-.1779	.0706
32	GELA	10.416	SI	14	.9527	.1220	-.1124	.0381
32	GELA	10.416	P	15	.9836	.0553	-.0557	.0171
32	GELA	10.416	S	16	1.0447	-.0209	-.0302	.0064
32	GELA	10.416	CL	17	1.0762	-.0725	-.0036	-.0001
32	GELA	10.416	K	19	1.1972	-.2070	.0143	-.0045
32	GELA	10.416	CA	20	1.2760	-.2868	.0151	-.0044
32	GELA	10.416	SC	21	1.3064	-.3228	.0260	-.0096
32	GELA	10.416	TI	22	1.3680	-.3830	.0285	-.0135
32	GELA	10.416	V	23	1.4329	-.4437	.0297	-.0189
32	GELA	10.416	CR	24	1.5260	-.5304	.0269	-.0225

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
32	GELA	10.416	MN	25	1.6002	-.5963	.0273	-.0311
32	GELA	10.416	FE	26	1.7030	-.6901	.0250	-.0377
32	GELA	10.416	CO	27	1.7831	-.7584	.0265	-.0509
32	GELA	10.416	NI	28	1.9077	-.8728	.0241	-.0587
32	GELA	10.416	CU	29	1.9736	-.9214	.0290	-.0807
32	GELA	10.416	ZN	30	1.9303	-.8723	.0140	-.0716
32	GELA	10.416	GA	31	1.9948	-.9173	.0140	-.0909
32	GELA	10.416	Y	39	1.1725	-.1592	-.0116	-.0018
32	GELA	10.416	ZR	40	1.2000	-.1826	-.0148	-.0027
32	GELA	10.416	NB	41	1.2321	-.2110	-.0173	-.0039
32	GELA	10.416	MO	42	1.2521	-.2207	-.0280	-.0035
32	GELA	10.416	PD	46	1.3749	-.3163	-.0437	-.0149
32	GELA	10.416	AG	47	1.4150	-.3500	-.0458	-.0191
32	GELA	10.416	CD	48	1.4386	-.3594	-.0558	-.0233
32	GELA	10.416	SN	50	1.5054	-.4013	-.0699	-.0341
32	GELA	10.416	SB	51	1.5411	-.4235	-.0768	-.0406
32	GELA	10.416	CS	55	1.5821	-.4380	-.0917	-.0521
32	GELA	10.416	BA	56	1.6133	-.4492	-.1038	-.0600
32	GELA	10.416	LA	57	1.5192	-.3829	-.0930	-.0431
32	GELA	10.416	CE	58	1.5625	-.4168	-.0942	-.0512
32	GELA	10.416	HF	72	1.1011	-.0504	-.0560	.0053
32	GELA	10.416	TA	73	1.1103	-.0562	-.0592	.0052
32	GELA	10.416	W	74	1.1183	-.0601	-.0633	.0052
32	GELA	10.416	RE	75	1.1279	-.0663	-.0665	.0050
32	GELA	10.416	PT	78	1.1522	-.0770	-.0799	.0047
32	GELA	10.416	AU	79	1.1638	-.0855	-.0825	.0042
32	GELA	10.416	PB	82	1.1877	-.0914	-.1000	.0038
32	GELA	10.416	TH	90	1.2802	-.1257	-.1512	-.0031
32	GELA	10.416	U	92	1.3106	-.1373	-.1660	-.0070
39	YLA	6.448	B	5	.9567	.0852	-.0347	-.0072
39	YLA	6.448	C	6	1.0158	.0244	-.0203	-.0200
39	YLA	6.448	N	7	1.0479	-.0282	.0079	-.0276
39	YLA	6.448	O	8	1.0901	-.0917	.0364	-.0350
39	YLA	6.448	F	9	1.1130	-.1463	.0754	-.0423
39	YLA	6.448	NA	11	1.2459	-.3146	.1261	-.0577
39	YLA	6.448	MG	12	1.3467	-.4272	.1440	-.0638
39	YLA	6.448	AL	13	1.4145	-.5124	.1720	-.0744
39	YLA	6.448	SI	14	1.5242	-.6256	.1780	-.0769
39	YLA	6.448	P	15	.9671	.0618	-.0279	-.0009
39	YLA	6.448	S	16	.9471	.2097	-.2699	.1143
39	YLA	6.448	CL	17	.9539	.1566	-.1904	.0807
39	YLA	6.448	K	19	1.0153	.0315	-.0717	.0251
39	YLA	6.448	CA	20	1.0558	-.0232	-.0452	.0127
39	YLA	6.448	SC	21	1.0507	-.0392	-.0163	.0048
39	YLA	6.448	TI	22	1.0703	-.0675	-.0035	.0008

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
39	YLA	6.448	V	23	1.0905	-.0933	.0043	-.0015
39	YLA	6.448	CR	24	1.1325	-.1361	.0060	-.0024
39	YLA	6.448	MN	25	1.1568	-.1621	.0088	-.0035
39	YLA	6.448	FE	26	1.2030	-.2072	.0080	-.0037
39	YLA	6.448	CO	27	1.2291	-.2326	.0083	-.0048
39	YLA	6.448	NI	28	1.2895	-.2904	.0050	-.0042
39	YLA	6.448	CU	29	1.3016	-.3000	.0054	-.0070
39	YLA	6.448	ZN	30	1.3447	-.3394	.0032	-.0085
39	YLA	6.448	GA	31	1.3662	-.3550	.0011	-.0123
39	YLA	6.448	GE	32	1.4030	-.3855	-.0018	-.0157
39	YLA	6.448	ZR	40	1.0105	-.0105	-.0001	-.0000
39	YLA	6.448	NB	41	1.0249	-.0247	-.0002	-.0000
39	YLA	6.448	MO	42	1.0077	.0278	-.0583	.0230
39	YLA	6.448	PD	46	1.0615	-.0389	-.0324	.0099
39	YLA	6.448	AG	47	1.0818	-.0619	-.0269	.0071
39	YLA	6.448	CD	48	1.0882	-.0684	-.0245	.0047
39	YLA	6.448	SN	50	1.1152	-.0934	-.0235	.0017
39	YLA	6.448	SB	51	1.1298	-.1058	-.0245	.0005
39	YLA	6.448	CS	55	1.1977	-.1595	-.0342	-.0039
39	YLA	6.448	BA	56	1.2090	-.1636	-.0403	-.0050
39	YLA	6.448	LA	57	1.2327	-.1836	-.0425	-.0066
39	YLA	6.448	CE	58	1.2585	-.2059	-.0441	-.0084
39	YLA	6.448	HF	72	1.3173	-.2241	-.0766	-.0165
39	YLA	6.448	TA	73	1.3361	-.2363	-.0806	-.0190
39	YLA	6.448	W	74	1.3536	-.2463	-.0855	-.0216
39	YLA	6.448	RE	75	1.0955	-.0562	-.0406	.0013
39	YLA	6.448	PT	78	.9928	.0304	-.0278	.0046
39	YLA	6.448	AU	79	.9992	.0249	-.0287	.0047
39	YLA	6.448	PB	82	1.0079	.0231	-.0367	.0057
39	YLA	6.448	TH	90	1.0491	.0041	-.0611	.0079
39	YLA	6.448	U	92	1.0633	-.0029	-.0686	.0083
40	ZRLA	6.072	B	5	.9631	.0792	-.0356	-.0067
40	ZRLA	6.072	C	6	1.0185	.0242	-.0241	-.0185
40	ZRLA	6.072	N	7	1.0452	-.0206	.0004	-.0251
40	ZRLA	6.072	O	8	1.0808	-.0749	.0254	-.0314
40	ZRLA	6.072	F	9	1.0962	-.1194	.0600	-.0369
40	ZRLA	6.072	NA	11	1.2111	-.2657	.1041	-.0497
40	ZRLA	6.072	MG	12	1.3003	-.3651	.1194	-.0548
40	ZRLA	6.072	AL	13	1.3577	-.4386	.1436	-.0631
40	ZRLA	6.072	SI	14	1.4557	-.5396	.1483	-.0647
40	ZRLA	6.072	P	15	.9704	.0575	-.0256	-.0023
40	ZRLA	6.072	S	16	.9363	.2580	-.3426	.1499
40	ZRLA	6.072	CL	17	.9429	.1975	-.2476	.1083
40	ZRLA	6.072	K	19	1.0030	.0587	-.0980	.0366
40	ZRLA	6.072	CA	20	1.0418	.0016	-.0629	.0197

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
40	ZRLA	6.072	SC	21	1.0351	-.0168	-.0269	.0087
40	ZRLA	6.072	TI	22	1.0521	-.0448	-.0103	.0031
40	ZRLA	6.072	V	23	1.0694	-.0691	-.0002	-.0001
40	ZRLA	6.072	CR	24	1.1079	-.1092	.0028	-.0015
40	ZRLA	6.072	MN	25	1.1286	-.1326	.0067	-.0027
40	ZRLA	6.072	FE	26	1.1706	-.1741	.0064	-.0029
40	ZRLA	6.072	CO	27	1.1927	-.1964	.0074	-.0037
40	ZRLA	6.072	NI	28	1.2483	-.2498	.0045	-.0030
40	ZRLA	6.072	CU	29	1.2565	-.2568	.0055	-.0051
40	ZRLA	6.072	ZN	30	1.2949	-.2924	.0036	-.0061
40	ZRLA	6.072	GA	31	1.3120	-.3052	.0020	-.0088
40	ZRLA	6.072	GE	32	1.3440	-.3322	-.0006	-.0112
40	ZRLA	6.072	Y	39	.9908	.0093	-.0001	.0000
40	ZRLA	6.072	NB	41	1.0129	-.0129	-.0000	-.0000
40	ZRLA	6.072	MO	42	.9965	.0285	-.0394	.0144
40	ZRLA	6.072	PD	46	1.0379	-.0110	-.0411	.0142
40	ZRLA	6.072	AG	47	1.0569	-.0342	-.0333	.0106
40	ZRLA	6.072	CD	48	1.0623	-.0414	-.0282	.0074
40	ZRLA	6.072	SN	50	1.0865	-.0665	-.0235	.0035
40	ZRLA	6.072	SB	51	1.0996	-.0786	-.0231	.0021
40	ZRLA	6.072	CS	55	1.1604	-.1295	-.0288	-.0021
40	ZRLA	6.072	BA	56	1.1699	-.1331	-.0340	-.0028
40	ZRLA	6.072	LA	57	1.1915	-.1518	-.0357	-.0040
40	ZRLA	6.072	CE	58	1.2150	-.1726	-.0370	-.0054
40	ZRLA	6.072	HF	72	1.2671	-.1898	-.0664	-.0109
40	ZRLA	6.072	TA	73	1.2639	-.2010	-.0702	-.0126
40	ZRLA	6.072	W	74	1.2995	-.2102	-.0748	-.0145
40	ZRLA	6.072	RE	75	1.3173	-.2222	-.0784	-.0167
40	ZRLA	6.072	PT	78	.9814	.0389	-.0244	.0041
40	ZRLA	6.072	AU	79	.9872	.0338	-.0252	.0042
40	ZRLA	6.072	PB	82	.9945	.0327	-.0324	.0052
40	ZRLA	6.072	TH	90	1.0308	.0159	-.0543	.0076
40	ZRLA	6.072	U	92	1.0434	.0097	-.0611	.0080
41	NBLA	5.727	B	5	.9665	.0746	-.0351	-.0059
41	NBLA	5.727	C	6	1.0185	.0245	-.0260	-.0170
41	NBLA	5.727	N	7	1.0406	-.0135	-.0045	-.0226
41	NBLA	5.727	O	8	1.0705	-.0598	.0172	-.0280
41	NBLA	5.727	F	9	1.0794	-.0955	.0483	-.0323
41	NBLA	5.727	NA	11	1.1785	-.2224	.0870	-.0434
41	NBLA	5.727	MG	12	1.2576	-.3102	.1002	-.0479
41	NBLA	5.727	AL	13	1.3058	-.3732	.1214	-.0544
41	NBLA	5.727	SI	14	1.3935	-.4634	.1254	-.0557
41	NBLA	5.727	P	15	1.4543	-.5372	.1489	-.0663
41	NBLA	5.727	S	16	.9936	.0365	-.0286	-.0015
41	NBLA	5.727	CL	17	.9348	.2149	-.2647	.1161

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
41	NBLA	5.727	K	19	.9861	.0916	-.1315	.0523
41	NBLA	5.727	CA	20	1.0257	.0302	-.0854	.0297
41	NBLA	5.727	SC	21	1.0181	.0076	-.0398	.0142
41	NBLA	5.727	TI	22	1.0332	-.0210	-.0184	.0063
41	NBLA	5.727	V	23	1.0482	-.0448	-.0051	.0017
41	NBLA	5.727	CR	24	1.0836	-.0827	-.0004	-.0005
41	NBLA	5.727	MN	25	1.1013	-.1040	.0046	-.0019
41	NBLA	5.727	FE	26	1.1396	-.1423	.0050	-.0024
41	NBLA	5.727	CO	27	1.1582	-.1618	.0066	-.0030
41	NBLA	5.727	NI	28	1.2095	-.2111	.0041	-.0025
41	NBLA	5.727	CU	29	1.2142	-.2157	.0055	-.0040
41	NBLA	5.727	ZN	30	1.2483	-.2478	.0040	-.0046
41	NBLA	5.727	GA	31	1.2617	-.2579	.0028	-.0066
41	NBLA	5.727	GE	32	1.2895	-.2816	.0004	-.0083
41	NBLA	5.727	Y	39	1.4584	-.4176	-.0196	-.0212
41	NBLA	5.727	ZR	40	.9883	.0117	-.0000	.0000
41	NBLA	5.727	MO	42	1.0049	-.0048	-.0001	.0000
41	NBLA	5.727	PD	46	1.0133	.0211	-.0546	.0204
41	NBLA	5.727	AG	47	1.0312	-.0028	-.0439	.0155
41	NBLA	5.727	CD	48	1.0358	-.0113	-.0355	.0110
41	NBLA	5.727	SN	50	1.0578	-.0371	-.0265	.0057
41	NBLA	5.727	SB	51	1.0696	-.0491	-.0244	.0036
41	NBLA	5.727	CS	55	1.1242	-.0978	-.0259	-.0005
41	NBLA	5.727	BA	56	1.1322	-.1010	-.0301	-.0012
41	NBLA	5.727	LA	57	1.1519	-.1184	-.0313	-.0021
41	NBLA	5.727	CE	58	1.1733	-.1378	-.0324	-.0031
41	NBLA	5.727	HF	72	1.2737	-.1934	-.0686	-.0116
41	NBLA	5.727	TA	73	1.2906	-.2046	-.0724	-.0135
41	NBLA	5.727	W	74	1.2483	-.1720	-.0671	-.0091
41	NBLA	5.727	RE	75	1.2643	-.1830	-.0706	-.0107
41	NBLA	5.727	PT	78	1.0722	-.0342	-.0403	.0023
41	NBLA	5.727	AU	79	.9738	.0457	-.0235	.0040
41	NBLA	5.727	PB	82	.9798	.0454	-.0301	.0050
41	NBLA	5.727	TH	90	1.0116	.0313	-.0504	.0075
41	NBLA	5.727	U	92	1.0227	.0259	-.0566	.0081
42	MOLA	5.410	B	5	.9767	.0660	-.0364	-.0063
42	MOLA	5.410	C	6	1.0263	.0199	-.0294	-.0168
42	MOLA	5.410	N	7	1.0447	-.0126	-.0106	-.0215
42	MOLA	5.410	O	8	1.0699	-.0526	.0087	-.0261
42	MOLA	5.410	F	9	1.0733	-.0812	.0367	-.0289
42	MOLA	5.410	NA	11	1.1596	-.1925	.0708	-.0381
42	MOLA	5.410	MG	12	1.2305	-.2707	.0820	-.0419
42	MOLA	5.410	AL	13	1.2710	-.3253	.1008	-.0467
42	MOLA	5.410	SI	14	1.3502	-.4068	.1039	-.0475
42	MOLA	5.410	P	15	1.4017	-.4707	.1240	-.0553

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
42	MOLA	5.410	S	16	1.0005	.0291	-.0255	-.0041
42	MOLA	5.410	CL	17	.9259	.2664	-.3458	.1550
42	MOLA	5.410	K	19	.9798	.1261	-.1790	.0739
42	MOLA	5.410	CA	20	1.0173	.0576	-.1180	.0436
42	MOLA	5.410	SC	21	1.0096	.0279	-.0593	.0219
42	MOLA	5.410	TI	22	1.0236	-.0036	-.0307	.0107
42	MOLA	5.410	V	23	1.0370	-.0283	-.0130	.0044
42	MOLA	5.410	CR	24	1.0701	-.0653	-.0059	.0011
42	MOLA	5.410	MN	25	1.0855	-.0855	.0009	-.0008
42	MOLA	5.410	FE	26	1.1210	-.1217	.0024	-.0017
42	MOLA	5.410	CO	27	1.1367	-.1393	.0049	-.0023
42	MOLA	5.410	NI	28	1.1845	-.1855	.0028	-.0019
42	MOLA	5.410	CU	29	1.1863	-.1884	.0050	-.0030
42	MOLA	5.410	ZN	30	1.2170	-.2177	.0040	-.0033
42	MOLA	5.410	GA	31	1.2271	-.2259	.0035	-.0048
42	MOLA	5.410	GE	32	1.2513	-.2471	.0017	-.0059
42	MOLA	5.410	Y	39	1.4018	-.3712	-.0157	-.0149
42	MOLA	5.410	ZR	40	1.2858	-.2672	-.0125	-.0061
42	MOLA	5.410	NB	41	.9961	.0040	-.0001	-.0000
42	MOLA	5.410	PD	46	1.0014	.0325	-.0541	.0203
42	MOLA	5.410	AG	47	1.0145	.0224	-.0592	.0225
42	MOLA	5.410	CD	48	1.0187	.0115	-.0464	.0163
42	MOLA	5.410	SN	50	1.0392	-.0167	-.0313	.0088
42	MOLA	5.410	SB	51	1.0501	-.0294	-.0269	.0062
42	MOLA	5.410	CS	55	1.1000	-.0783	-.0223	.0006
42	MOLA	5.410	BA	56	1.1068	-.0815	-.0251	-.0001
42	MOLA	5.410	LA	57	1.1249	-.0983	-.0258	-.0009
42	MOLA	5.410	CE	58	1.1447	-.1167	-.0263	-.0017
42	MOLA	5.410	HF	72	1.2348	-.1698	-.0572	-.0078
42	MOLA	5.410	TA	73	1.2501	-.1803	-.0606	-.0091
42	MOLA	5.410	W	74	1.2641	-.1887	-.0648	-.0105
42	MOLA	5.410	RE	75	1.2263	-.1603	-.0589	-.0070
42	MOLA	5.410	PT	78	1.2660	-.1835	-.0717	-.0108
42	MOLA	5.410	AU	79	1.0666	-.0338	-.0348	.0020
42	MOLA	5.410	PB	82	.9737	.0476	-.0255	.0043
42	MOLA	5.410	TH	90	1.0015	.0352	-.0433	.0067
42	MOLA	5.410	U	92	1.0114	.0302	-.0488	.0072
46	PDLA	4.371	B	5	1.0075	.0371	-.0370	-.0076
46	PDLA	4.371	C	6	1.0506	.0016	-.0356	-.0165
46	PDLA	4.371	N	7	1.0585	-.0158	-.0240	-.0187
46	PDLA	4.371	O	8	1.0708	-.0378	-.0120	-.0209
46	PDLA	4.371	F	9	1.0586	-.0460	.0075	-.0201
46	PDLA	4.371	NA	11	1.1081	-.1121	.0292	-.0253
46	PDLA	4.371	MG	12	1.1552	-.1628	.0354	-.0279
46	PDLA	4.371	AL	13	1.1734	-.1926	.0481	-.0290

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
46	PDLA	4.371	SI	14	1.2276	-.2476	.0494	-.0295
46	PDLA	4.371	P	15	1.2520	-.2827	.0621	-.0315
46	PDLA	4.371	S	16	1.3105	-.3410	.0614	-.0311
46	PDLA	4.371	CL	17	1.3335	-.3738	.0756	-.0354
46	PDLA	4.371	K	19	.9582	.2039	-.2760	.1149
46	PDLA	4.371	CA	20	.9703	.2301	-.3504	.1515
46	PDLA	4.371	SC	21	.9694	.1486	-.2044	.0872
46	PDLA	4.371	TI	22	.9847	.0891	-.1241	.0508
46	PDLA	4.371	V	23	.9968	.0472	-.0720	.0282
46	PDLA	4.371	CR	24	1.0257	.0040	-.0450	.0154
46	PDLA	4.371	MN	25	1.0361	-.0197	-.0237	.0073
46	PDLA	4.371	FE	26	1.0644	-.0530	-.0144	.0030
46	PDLA	4.371	CO	27	1.0728	-.0675	-.0059	.0007
46	PDLA	4.371	NI	28	1.1109	-.1053	-.0053	-.0003
46	PDLA	4.371	CU	29	1.1045	-.1039	.0004	-.0010
46	PDLA	4.371	ZN	30	1.1249	-.1250	.0013	-.0012
46	PDLA	4.371	GA	31	1.1256	-.1272	.0032	-.0017
46	PDLA	4.371	GE	32	1.1393	-.1406	.0033	-.0020
46	PDLA	4.371	Y	39	1.2834	-.2710	-.0064	-.0060
46	PDLA	4.371	ZR	40	1.3015	-.2863	-.0084	-.0069
46	PDLA	4.371	NB	41	1.3294	-.3110	-.0103	-.0081
46	PDLA	4.371	MO	42	1.2906	-.2740	-.0105	-.0061
46	PDLA	4.371	AG	47	1.0097	-.0097	.0000	-.0000
46	PDLA	4.371	CD	48	1.0058	-.0055	-.0003	.0000
46	PDLA	4.371	SN	50	.9762	.0658	-.0667	.0248
46	PDLA	4.371	SB	51	.9851	.0486	-.0519	.0183
46	PDLA	4.371	CS	55	1.0203	.0015	-.0300	.0082
46	PDLA	4.371	BA	56	1.0242	-.0042	-.0258	.0058
46	PDLA	4.371	LA	57	1.0382	-.0201	-.0223	.0042
46	PDLA	4.371	CE	58	1.0535	-.0369	-.0195	.0029
46	PDLA	4.371	HF	72	1.2041	-.1558	-.0434	-.0049
46	PDLA	4.371	TA	73	1.2173	-.1653	-.0461	-.0058
46	PDLA	4.371	W	74	1.1862	-.1399	-.0425	-.0038
46	PDLA	4.371	RE	75	1.1989	-.1494	-.0449	-.0046
46	PDLA	4.371	PT	78	1.1736	-.1254	-.0452	-.0030
46	PDLA	4.371	AU	79	1.1870	-.1363	-.0470	-.0038
46	PDLA	4.371	PB	82	1.1719	-.1179	-.0513	-.0027
46	PDLA	4.371	TH	90	.9672	.0555	-.0274	.0047
46	PDLA	4.371	U	92	.9731	.0527	-.0309	.0051
47	AGLA	4.157	B	5	1.0095	.0333	-.0353	-.0074
47	AGLA	4.157	C	6	1.0513	-.0003	-.0351	-.0157
47	AGLA	4.157	N	7	1.0574	-.0151	-.0245	-.0177
47	AGLA	4.157	O	8	1.0674	-.0339	-.0140	-.0195
47	AGLA	4.157	F	9	1.0526	-.0384	.0040	-.0183
47	AGLA	4.157	NA	11	1.0955	-.0962	.0235	-.0230

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
47	AGLA	4.157	MG	12	1.1383	-.1418	.0290	-.0255
47	AGLA	4.157	AL	13	1.1524	-.1669	.0407	-.0263
47	AGLA	4.157	SI	14	1.2020	-.2169	.0418	-.0270
47	AGLA	4.157	P	15	1.2214	-.2465	.0533	-.0283
47	AGLA	4.157	S	16	1.2747	-.2995	.0528	-.0281
47	AGLA	4.157	CL	17	1.2924	-.3268	.0656	-.0313
47	AGLA	4.157	K	19	1.0140	.0212	-.0454	.0104
47	AGLA	4.157	CA	20	.9621	.2419	-.3557	.1531
47	AGLA	4.157	SC	21	.9539	.1916	-.2569	.1125
47	AGLA	4.157	TI	22	.9705	.1222	-.1596	.0675
47	AGLA	4.157	V	23	.9833	.0731	-.0948	.0387
47	AGLA	4.157	CR	24	1.0121	.0262	-.0601	.0220
47	AGLA	4.157	MN	25	1.0221	-.0004	-.0329	.0112
47	AGLA	4.157	FE	26	1.0495	-.0344	-.0203	.0053
47	AGLA	4.157	CO	27	1.0568	-.0493	-.0095	.0020
47	AGLA	4.157	NI	28	1.0932	-.0860	-.0076	.0004
47	AGLA	4.157	CU	29	1.0855	-.0841	-.0008	-.0006
47	AGLA	4.157	ZN	30	1.1042	-.1037	.0006	-.0010
47	AGLA	4.157	GA	31	1.1032	-.1048	.0030	-.0015
47	AGLA	4.157	GE	32	1.1150	-.1166	.0033	-.0017
47	AGLA	4.157	Y	39	1.2427	-.2336	-.0047	-.0045
47	AGLA	4.157	ZR	40	1.2590	-.2474	-.0065	-.0051
47	AGLA	4.157	NB	41	1.2842	-.2700	-.0083	-.0060
47	AGLA	4.157	MO	42	1.3012	-.2830	-.0108	-.0073
47	AGLA	4.157	PD	46	.9911	.0089	.0000	.0000
47	AGLA	4.157	CD	48	.9954	.0048	-.0002	.0000
47	AGLA	4.157	SN	50	.9687	.0588	-.0411	.0137
47	AGLA	4.157	SB	51	.9664	.0759	-.0665	.0244
47	AGLA	4.157	CS	55	.9999	.0261	-.0374	.0114
47	AGLA	4.157	BA	56	1.0034	.0194	-.0311	.0084
47	AGLA	4.157	LA	57	1.0168	.0032	-.0261	.0062
47	AGLA	4.157	CE	58	1.0314	-.0136	-.0224	.0046
47	AGLA	4.157	HF	72	1.1680	-.1261	-.0392	-.0027
47	AGLA	4.157	TA	73	1.1800	-.1349	-.0417	-.0034
47	AGLA	4.157	W	74	1.1907	-.1418	-.0449	-.0041
47	AGLA	4.157	RE	75	1.2035	-.1512	-.0474	-.0049
47	AGLA	4.157	PT	78	1.1404	-.0982	-.0410	-.0012
47	AGLA	4.157	AU	79	1.1527	-.1082	-.0427	-.0018
47	AGLA	4.157	PB	82	1.1385	-.0909	-.0468	-.0008
47	AGLA	4.157	TH	90	.9565	.0654	-.0265	.0046
47	AGLA	4.157	U	92	.9616	.0632	-.0298	.0050
48	CDLA	3.959	B	5	1.0253	.0214	-.0372	-.0094
48	CDLA	3.959	C	6	1.0666	-.0109	-.0378	-.0177
48	CDLA	3.959	N	7	1.0712	-.0237	-.0284	-.0191
48	CDLA	3.959	O	8	1.0794	-.0400	-.0189	-.0205

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
48	CDLA	3.959	F	9	1.0621	-.0416	-.0022	-.0183
48	CDLA	3.959	NA	11	1.0998	-.0932	.0154	-.0221
48	CDLA	3.959	MG	12	1.1394	-.1351	.0202	-.0246
48	CDLA	3.959	AL	13	1.1501	-.1566	.0310	-.0246
48	CDLA	3.959	SI	14	1.1962	-.2028	.0317	-.0252
48	CDLA	3.959	P	15	1.2115	-.2283	.0423	-.0256
48	CDLA	3.959	S	16	1.2609	-.2775	.0418	-.0253
48	CDLA	3.959	CL	17	1.2742	-.3008	.0537	-.0273
48	CDLA	3.959	K	19	1.0257	.0111	-.0440	.0073
48	CDLA	3.959	CA	20	.9763	.2062	-.3053	.1239
48	CDLA	3.959	SC	21	.9482	.2419	-.3385	.1498
48	CDLA	3.959	TI	22	.9674	.1571	-.2162	.0925
48	CDLA	3.959	V	23	.9822	.0964	-.1327	.0546
48	CDLA	3.959	CR	24	1.0118	.0424	-.0862	.0322
48	CDLA	3.959	MN	25	1.0224	.0103	-.0498	.0172
48	CDLA	3.959	FE	26	1.0497	-.0266	-.0318	.0088
48	CDLA	3.959	CO	27	1.0566	-.0436	-.0170	.0039
48	CDLA	3.959	NI	28	1.0922	-.0804	-.0132	.0014
48	CDLA	3.959	CU	29	1.0835	-.0791	-.0045	.0000
48	CDLA	3.959	ZN	30	1.1009	-.0982	-.0020	-.0007
48	CDLA	3.959	GA	31	1.0986	-.0988	.0013	-.0011
48	CDLA	3.959	GE	32	1.1088	-.109[illegible]	.0023	-.0013
48	CDLA	3.959	Y	39	1.2238	-.218[illegible]	-.0026	-.0029
48	CDLA	3.959	ZR	40	1.2386	-.2313	-.0039	-.0033
48	CDLA	3.959	NB	41	1.2617	-.2525	-.0054	-.0039
48	CDLA	3.959	MO	42	1.2766	-.2644	-.0074	-.0049
48	CDLA	3.959	PD	46	.9969	.0033	-.0002	-.0000
48	CDLA	3.959	AG	47	1.0053	-.0051	-.0002	-.0000
48	CDLA	3.959	SN	50	1.0033	-.0032	.0002	-.0003
48	CDLA	3.959	SB	51	.9719	.0572	-.0437	.0147
48	CDLA	3.959	CS	55	.9932	.0392	-.0493	.0170
48	CDLA	3.959	BA	56	.9968	.0300	-.0392	.0124
48	CDLA	3.959	LA	57	1.0101	.0125	-.0319	.0093
48	CDLA	3.959	CE	58	1.0244	-.005[illegible]	-.0261	.0070
48	CDLA	3.959	HF	72	1.1516	-.1199	-.0299	-.0018
48	CDLA	3.959	TA	73	1.1626	-.1283	-.0320	-.0024
48	CDLA	3.959	W	74	1.1724	-.1349	-.0346	-.002[illegible]
48	CDLA	3.959	RE	75	1.1842	-.1440	-.0367	-.003[illegible]
48	CDLA	3.959	PT	78	1.1754	-.1331	-.0392	-.0031
48	CDLA	3.959	AU	79	1.1377	-.1038	-.0327	-.0012
48	CDLA	3.959	PB	82	1.1611	-.1164	-.0425	-.0022
48	CDLA	3.959	TH	90	.9600	.0574	-.0211	.0037
48	CDLA	3.959	U	92	.9644	.0555	-.0239	.0041
50	SNLA	3.601	B	5	1.0433	.0059	-.0376	-.0116
50	SNLA	3.601	C	6	1.0835	-.0243	-.0393	-.0198

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
50	SNLA	3.601	N	7	1.0857	-.0336	-.0315	-.0205
50	SNLA	3.601	O	8	1.0908	-.0457	-.0238	-.0212
50	SNLA	3.601	F	9	1.0695	-.0424	-.0092	-.0160
50	SNLA	3.601	NA	11	1.0982	-.0827	.0050	-.0205
50	SNLA	3.601	MG	12	1.1321	-.1177	.0083	-.0227
50	SNLA	3.601	AL	13	1.1370	-.1328	.0178	-.0221
50	SNLA	3.601	SI	14	1.1768	-.1721	.0183	-.0230
50	SNLA	3.601	P	15	1.1850	-.1902	.0274	-.0222
50	SNLA	3.601	S	16	1.2273	-.2321	.0270	-.0222
50	SNLA	3.601	CL	17	1.2330	-.2479	.0374	-.0225
50	SNLA	3.601	K	19	1.0417	-.0151	-.0208	-.0057
50	SNLA	3.601	CA	20	1.0521	-.0053	-.0560	.0093
50	SNLA	3.601	SC	21	.9550	.2164	-.2924	.1220
50	SNLA	3.601	TI	22	.9457	.2548	-.3569	.1579
50	SNLA	3.601	V	23	.9652	.1672	-.2301	.0986
50	SNLA	3.601	CR	24	.9975	.0958	-.1545	.0617
50	SNLA	3.601	MN	25	1.0103	.0486	-.0939	.0353
50	SNLA	3.601	FE	26	1.0382	.0035	-.0614	.0199
50	SNLA	3.601	CO	27	1.0453	-.0198	-.0355	.0102
50	SNLA	3.601	NI	28	1.0797	-.0585	-.0259	.0048
50	SNLA	3.601	CU	29	1.0700	-.0595	-.0122	.0018
50	SNLA	3.601	ZN	30	1.0854	-.0782	-.0073	.0001
50	SNLA	3.601	GA	31	1.0810	-.0784	-.0018	-.0007
50	SNLA	3.601	GE	32	1.0687	-.0880	.0004	-.0011
50	SNLA	3.601	Y	39	1.1809	-.1790	-.0000	-.0018
50	SNLA	3.601	ZR	40	1.1930	-.1900	-.0010	-.0019
50	SNLA	3.601	NB	41	1.2122	-.2081	-.0021	-.0020
50	SNLA	3.601	MO	42	1.2235	-.2177	-.0033	-.0025
50	SNLA	3.601	PD	46	1.2374	-.2269	-.0076	-.0029
50	SNLA	3.601	AG	47	1.1714	-.1665	-.0043	-.0006
50	SNLA	3.601	CD	48	.9990	.0013	-.0006	.0003
50	SNLA	3.601	SB	51	1.0014	-.0013	-.0001	.0000
50	SNLA	3.601	CS	55	.9744	.0653	-.0614	.0218
50	SNLA	3.601	BA	56	.9779	.0537	-.0475	.0159
50	SNLA	3.601	LA	57	.9858	.0492	-.0534	.0185
50	SNLA	3.601	CE	58	.9999	.0287	-.0426	.0141
50	SNLA	3.601	HF	72	1.1124	-.0921	-.0196	-.0007
50	SNLA	3.601	TA	73	1.1216	-.0996	-.0210	-.0010
50	SNLA	3.601	W	74	1.1296	-.1055	-.0229	-.0013
50	SNLA	3.601	RE	75	1.1395	-.1135	-.0244	-.0016
50	SNLA	3.601	PT	78	1.1652	-.1311	-.0313	-.0027
50	SNLA	3.601	AU	79	1.1430	-.1138	-.0275	-.0018
50	SNLA	3.601	PB	82	1.1195	-.0897	-.0291	-.0008
50	SNLA	3.601	TH	90	1.0204	.0013	-.0241	.0024
50	SNLA	3.601	U	92	.9598	.0552	-.0180	.0029

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
51	SBLA	3.440	B	5	1.0516	-.0012	-.0380	-.0123
51	SBLA	3.440	C	6	1.0913	-.0305	-.0402	-.0205
51	SBLA	3.440	N	7	1.0926	-.0385	-.0328	-.0211
51	SBLA	3.440	O	8	1.0964	-.0491	-.0255	-.0218
51	SBLA	3.440	F	9	1.0734	-.0435	-.0122	-.0178
51	SBLA	3.440	NA	11	1.0984	-.0792	.0006	-.0198
51	SBLA	3.440	MG	12	1.1300	-.1114	.0035	-.0221
51	SBLA	3.440	AL	13	1.1325	-.1238	.0123	-.0211
51	SBLA	3.440	SI	14	1.1696	-.1601	.0125	-.0221
51	SBLA	3.440	P	15	1.1748	-.1751	.0212	-.0210
51	SBLA	3.440	S	16	1.2142	-.2138	.0207	-.0211
51	SBLA	3.440	CL	17	1.2167	-.2267	.0308	-.0209
51	SBLA	3.440	K	19	1.0468	-.0190	-.0217	-.0062
51	SBLA	3.440	CA	20	1.0641	-.0341	-.0228	-.0072
51	SBLA	3.440	SC	21	1.0244	.0181	-.0602	.0178
51	SBLA	3.440	TI	22	.9436	.2630	-.3643	.1591
51	SBLA	3.440	V	23	.9549	.2108	-.2913	.1268
51	SBLA	3.440	CR	24	.9890	.1293	-.1992	.0817
51	SBLA	3.440	MN	25	-.0035	.0727	-.1240	.0482
51	SBLA	3.440	FE	26	1.0321	.0219	-.0820	.0282
51	SBLA	3.440	CO	27	1.0399	-.0062	-.0486	.0150
51	SBLA	3.440	NI	28	1.0741	-.0468	-.0350	.0077
51	SBLA	3.440	CU	29	1.0643	-.0499	-.0176	.0033
51	SBLA	3.440	ZN	30	1.0791	-.0691	-.0109	.0009
51	SBLA	3.440	GA	31	1.0740	-.0696	-.0042	-.0002
51	SBLA	3.440	GE	32	1.0807	-.0787	-.0012	-.0008
51	SBLA	3.440	Y	39	1.1634	-.1624	.0004	-.0014
51	SBLA	3.440	ZR	40	1.1743	-.1726	-.0003	-.0015
51	SBLA	3.440	NB	41	1.1920	-.1894	-.0010	-.0015
51	SBLA	3.440	MO	42	1.2016	-.1978	-.0022	-.0017
51	SBLA	3.440	PD	46	1.2134	-.2059	-.0059	-.0016
51	SBLA	3.440	AG	47	1.2290	-.2206	-.0066	-.0018
51	SBLA	3.440	CD	48	1.1537	-.1492	-.0036	-.0009
51	SBLA	3.440	SN	50	.9991	.0009	-.0000	-.0000
51	SBLA	3.440	CS	55	.9753	.0498	-.0365	.0115
51	SBLA	3.440	BA	56	.9667	.0732	-.0615	.0216
51	SBLA	3.440	LA	57	.9795	.0529	-.0487	.0164
51	SBLA	3.440	CE	58	.9881	.0480	-.0551	.0192
51	SBLA	3.440	HF	72	1.0958	-.0794	-.0161	-.0002
51	SBLA	3.440	TA	73	1.1043	-.0866	-.0172	-.0004
51	SBLA	3.440	W	74	1.1116	-.0921	-.0188	-.0006
51	SBLA	3.440	RE	75	1.1207	-.0998	-.0200	-.0009
51	SBLA	3.440	PT	78	1.1439	-.1162	-.0259	-.0018
51	SBLA	3.440	AU	79	1.1553	-.1260	-.0270	-.0022
51	SBLA	3.440	PB	82	1.1436	-.1117	-.0303	-.0018

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
51	SBLA	3.440	TH	90	1.1325	-.0919	-.0399	-.0007
51	SBLA	3.440	U	92	1.0188	.0025	-.0236	.0023
55	CSLA	2.891	B	5	1.0784	-.0255	-.0371	-.0156
55	CSLA	2.891	C	6	1.1169	-.0523	-.0412	-.0233
55	CSLA	2.891	N	7	1.1151	-.0560	-.0359	-.0232
55	CSLA	2.891	O	8	1.1153	-.0616	-.0307	-.0230
55	CSLA	2.891	F	9	1.0873	-.0500	-.0194	-.0180
55	CSLA	2.891	NA	11	1.1014	-.0719	-.0107	-.0188
55	CSLA	2.891	MG	12	1.1261	-.0956	-.0094	-.0210
55	CSLA	2.891	AL	13	1.1213	-.0997	-.0027	-.0189
55	CSLA	2.891	SI	14	1.1505	-.1268	-.0035	-.0202
55	CSLA	2.891	P	15	1.1468	-.1321	.0032	-.0179
55	CSLA	2.891	S	16	1.1770	-.1610	.0026	-.0186
55	CSLA	2.891	CL	17	1.1698	-.1640	.0110	-.0169
55	CSLA	2.891	K	19	1.2116	-.2099	.0147	-.0164
55	CSLA	2.891	CA	20	1.2455	-.2425	.0131	-.0161
55	CSLA	2.891	SC	21	1.0463	-.0245	-.0163	-.0055
55	CSLA	2.891	TI	22	1.0397	-.0218	-.0132	-.0047
55	CSLA	2.891	V	23	1.0212	.0244	-.0692	.0238
55	CSLA	2.891	CR	24	.9488	.2805	-.4000	.1722
55	CSLA	2.891	MN	25	.9617	.2264	-.3274	.1406
55	CSLA	2.891	FE	26	.9972	.1394	-.2282	.0924
55	CSLA	2.891	CO	27	1.0114	.0785	-.1454	.0559
55	CSLA	2.891	NI	28	1.0483	.0202	-.1027	.0345
55	CSLA	2.891	CU	29	1.0414	-.0011	-.0588	.0186
55	CSLA	2.891	ZN	30	1.0564	-.0285	-.0378	.0099
55	CSLA	2.891	GA	31	1.0509	-.0349	-.0207	.0048
55	CSLA	2.891	GE	32	1.0558	-.0458	-.0121	.0021
55	CSLA	2.891	Y	39	1.1115	-.1104	-.0007	-.0004
55	CSLA	2.891	ZR	40	1.1186	-.1176	-.0008	-.0002
55	CSLA	2.891	NB	41	1.1311	-.1300	-.0010	-.0001
55	CSLA	2.891	MO	42	1.1358	-.1348	-.0010	-.0000
55	CSLA	2.891	PD	46	1.1684	-.1659	-.0017	-.0007
55	CSLA	2.891	AG	47	1.1814	-.1785	-.0019	-.0009
55	CSLA	2.891	CD	48	1.1805	-.1765	-.0023	-.0017
55	CSLA	2.891	SN	50	1.1618	-.1569	-.0039	-.0011
55	CSLA	2.891	SB	51	1.1081	-.1058	-.0020	-.0003
55	CSLA	2.891	BA	56	.9954	.0047	.0000	-.0001
55	CSLA	2.891	LA	57	1.0014	-.0013	.0000	-.0001
55	CSLA	2.891	CE	58	1.0088	-.0087	.0000	-.0001
55	CSLA	2.891	HF	72	1.0417	-.0328	-.0099	.0010
55	CSLA	2.891	TA	73	1.0483	-.0394	-.0096	.0007
55	CSLA	2.891	W	74	1.0537	-.0444	-.0098	.0005
55	CSLA	2.891	RE	75	1.0606	-.0509	-.0100	.0004
55	CSLA	2.891	PT	78	1.0765	-.0639	-.0127	.0001

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
55	CSLA	2.891	AU	79	1.0850	-.0718	-.0131	-.0001
55	CSLA	2.891	PB	82	1.0995	-.0808	-.0183	-.0004
55	CSLA	2.891	TH	90	1.0901	-.0646	-.0258	.0003
55	CSLA	2.891	U	92	1.1053	-.0749	-.0302	-.0002
56	BALA	2.774	B	5	1.0913	-.0353	-.0380	-.0178
56	BALA	2.774	C	6	1.1298	-.0616	-.0425	-.0256
56	BALA	2.774	N	7	1.1275	-.0647	-.0376	-.0251
56	BALA	2.774	O	8	1.1270	-.0694	-.0328	-.0247
56	BALA	2.774	F	9	1.0979	-.0566	-.0221	-.0192
56	BALA	2.774	NA	11	1.1101	-.0763	-.0141	-.0197
56	BALA	2.774	MG	12	1.1336	-.0987	-.0129	-.0220
56	BALA	2.774	AL	13	1.1275	-.1013	-.0067	-.0196
56	BALA	2.774	SI	14	1.1554	-.1269	-.0077	-.0209
56	BALA	2.774	P	15	1.1500	-.1303	-.0015	-.0181
56	BALA	2.774	S	16	1.1787	-.1576	-.0022	-.0189
56	BALA	2.774	CL	17	1.1696	-.1588	.0058	-.0167
56	BALA	2.774	K	19	1.2077	-.2011	.0097	-.0162
56	BALA	2.774	CA	20	1.2397	-.2319	.0082	-.0161
56	BALA	2.774	SC	21	1.0562	-.0319	-.0179	-.0064
56	BALA	2.774	TI	22	1.0491	-.0288	-.0148	-.0056
56	BALA	2.774	V	23	1.0311	.0116	-.0599	.0173
56	BALA	2.774	CR	24	.9645	.2294	-.3248	.1320
56	BALA	2.774	MN	25	.9638	.2326	-.3374	.1422
56	BALA	2.774	FE	26	.9908	.1820	-.2923	.1206
56	BALA	2.774	CO	27	1.0080	.1076	-.1896	.0747
56	BALA	2.774	NI	28	1.0467	.0412	-.1346	.0472
56	BALA	2.774	CU	29	1.0417	.0113	-.0788	.0261
56	BALA	2.774	ZN	30	1.0576	-.0207	-.0513	.0145
56	BALA	2.774	GA	31	1.0526	-.0307	-.0293	.0074
56	BALA	2.774	GE	32	1.0577	-.0434	-.0178	.0035
56	BALA	2.774	Y	39	1.1095	-.1075	-.0018	-.0002
56	BALA	2.774	ZR	40	1.1160	-.1143	-.0016	-.0001
56	BALA	2.774	NB	41	1.1275	-.1258	-.0017	.0000
56	BALA	2.774	MO	42	1.1314	-.1301	-.0014	.0001
56	BALA	2.774	PD	46	1.1600	-.1585	-.0011	-.0004
56	BALA	2.774	AG	47	1.1722	-.1706	-.0008	-.0008
56	BALA	2.774	CD	48	1.1704	-.1681	-.0010	-.0013
56	BALA	2.774	SN	50	1.1526	-.1495	-.0024	-.0007
56	BALA	2.774	SB	51	1.1565	-.1525	-.0031	-.0008
56	BALA	2.774	CS	55	1.0050	-.0049	-.0001	-.0000
56	BALA	2.774	LA	57	1.0057	-.0057	.0000	-.0000
56	BALA	2.774	CE	58	1.0127	-.0129	.0003	-.0001
56	BALA	2.774	HF	72	1.0373	-.0293	-.0093	.0014
56	BALA	2.774	TA	73	1.0438	-.0363	-.0084	.0010
56	BALA	2.774	W	74	1.0489	-.0415	-.0081	.0007

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
56	BALA	2.774	RE	75	1.0555	-.0481	-.0078	.0004
56	BALA	2.774	PT	78	1.0705	-.0612	-.0093	.0000
56	BALA	2.774	AU	79	1.0785	-.0689	-.0095	-.0001
56	BALA	2.774	PB	82	1.0915	-.0775	-.0136	-.0004
56	BALA	2.774	TH	90	1.0822	-.0622	-.0201	.0002
56	BALA	2.774	U	92	1.0957	-.0717	-.0239	-.0002
57	LALA	2.664	B	5	1.0927	-.0380	-.0369	-.0177
57	LALA	2.664	C	6	1.1309	-.0639	-.0416	-.0253
57	LALA	2.664	N	7	1.1281	-.0661	-.0374	-.0245
57	LALA	2.664	O	8	1.1270	-.0700	-.0327	-.0242
57	LALA	2.664	F	9	1.0972	-.0560	-.0228	-.0184
57	LALA	2.664	NA	11	1.1076	-.0736	-.0148	-.0191
57	LALA	2.664	MG	12	1.1299	-.0945	-.0142	-.0212
57	LALA	2.664	AL	13	1.1225	-.0956	-.0080	-.0189
57	LALA	2.664	SI	14	1.1491	-.1197	-.0091	-.0203
57	LALA	2.664	P	15	1.1422	-.1212	-.0037	-.0173
57	LALA	2.664	S	16	1.1693	-.1468	-.0043	-.0183
57	LALA	2.664	CL	17	1.1586	-.1461	.0034	-.0159
57	LALA	2.664	K	19	1.1929	-.1842	.0067	-.0153
57	LALA	2.664	CA	20	1.2230	-.2131	.0056	-.0155
57	LALA	2.664	SC	21	1.2006	-.2024	.0162	-.0144
57	LALA	2.664	TI	22	1.0477	-.0278	-.0146	-.0054
57	LALA	2.664	V	23	1.0406	-.0242	-.0118	-.0046
57	LALA	2.664	CR	24	1.0397	.0148	-.0814	.0271
57	LALA	2.664	MN	25	.9458	.2883	-.4083	.1756
57	LALA	2.664	FE	26	.9738	.2332	-.3566	.1509
57	LALA	2.664	CO	27	.9938	.1462	-.2350	.0957
57	LALA	2.664	NI	28	1.0341	.0720	-.1677	.0622
57	LALA	2.664	CU	29	1.0311	.0335	-.0997	.0354
57	LALA	2.664	ZN	30	1.0480	-.0035	-.0646	.0202
57	LALA	2.664	GA	31	1.0438	-.0172	-.0372	.0107
57	LALA	2.664	GE	32	1.0491	-.0319	-.0227	.0056
57	LALA	2.664	Y	39	1.0973	-.0952	-.0019	-.0002
57	LALA	2.664	ZR	40	1.1031	-.1013	-.0018	-.0000
57	LALA	2.664	NB	41	1.1138	-.1120	-.0018	.0001
57	LALA	2.664	MO	42	1.1167	-.1154	-.0014	.0001
57	LALA	2.664	PD	46	1.1416	-.1407	-.0004	-.0005
57	LALA	2.664	AG	47	1.1529	-.1519	-.0004	-.0007
57	LALA	2.664	CD	48	1.1502	-.1487	-.0003	-.0012
57	LALA	2.664	SN	50	1.1603	-.1566	-.0028	-.0009
57	LALA	2.664	SB	51	1.1366	-.1336	-.0024	-.0006
57	LALA	2.664	CS	55	.9999	.0002	-.0001	-.0000
57	LALA	2.664	BA	56	.9947	.0053	.0000	.0000
57	LALA	2.664	CE	58	1.0067	-.0067	.0000	-.0000
57	LALA	2.664	HF	72	1.0231	-.0140	-.0112	.0021

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
57	LALA	2.664	TA	73	1.0293	-.0212	-.0096	.0015
57	LALA	2.664	W	74	1.0343	-.0266	-.0088	.0011
57	LALA	2.664	RE	75	1.0407	-.0333	-.0082	.0008
57	LALA	2.664	PT	78	1.0546	-.0461	-.0088	.0003
57	LALA	2.664	AU	79	1.0622	-.0535	-.0089	.0002
57	LALA	2.664	PB	82	1.0737	-.0612	-.0125	.0000
57	LALA	2.664	TH	90	1.0646	-.0464	-.0186	.0004
57	LALA	2.664	U	92	1.0766	-.0548	-.0221	.0003
58	CELA	2.560	B	5	1.0927	-.0398	-.0354	-.0174
58	CELA	2.560	C	6	1.1306	-.0652	-.0407	-.0245
58	CELA	2.560	N	7	1.1274	-.0668	-.0367	-.0238
58	CELA	2.560	O	8	1.1257	-.0699	-.0323	-.0234
58	CELA	2.560	F	9	1.0953	-.0549	-.0229	-.0175
58	CELA	2.560	NA	11	1.1041	-.0705	-.0154	-.0182
58	CELA	2.560	MG	12	1.1253	-.0901	-.0148	-.0204
58	CELA	2.560	AL	13	1.1169	-.0897	-.0093	-.0179
58	CELA	2.560	SI	14	1.1422	-.1124	-.0104	-.0194
58	CELA	2.560	P	15	1.1340	-.1124	-.0051	-.0165
58	CELA	2.560	S	16	1.1596	-.1363	-.0057	-.0176
58	CELA	2.560	CL	17	1.1475	-.1339	.0015	-.0151
58	CELA	2.560	K	19	1.1784	-.1686	.0051	-.0149
58	CELA	2.560	CA	20	1.2067	-.1953	.0035	-.0149
58	CELA	2.560	SC	21	1.1626	-.1830	.0135	-.0134
58	CELA	2.560	TI	22	1.0452	-.0261	-.0139	-.0052
58	CELA	2.560	V	23	1.0378	-.0222	-.0111	-.0045
58	CELA	2.560	CR	24	1.0382	.0078	-.0649	.0190
58	CELA	2.560	MN	25	.9537	.2322	-.3133	.1283
58	CELA	2.560	FE	26	.9672	.2367	-.3487	.1460
58	CELA	2.560	CO	27	.9780	.1889	-.2854	.1195
58	CELA	2.560	NI	28	1.0198	.1065	-.2054	.0797
58	CELA	2.560	CU	29	1.0192	.0585	-.1236	.0463
58	CELA	2.560	ZN	30	1.0373	.0160	-.0801	.0271
58	CELA	2.560	GA	31	1.0340	-.0021	-.0467	.0149
58	CELA	2.560	GE	32	1.0398	-.0194	-.0283	.0079
58	CELA	2.560	Y	39	1.0851	-.0829	-.0022	-.0000
58	CELA	2.560	ZR	40	1.0903	-.0885	-.0018	.0001
58	CELA	2.560	NB	41	1.1001	-.0984	-.0019	.0001
58	CELA	2.560	MO	42	1.1023	-.1011	-.0013	.0001
58	CELA	2.560	PD	46	1.1237	-.1231	-.0000	-.0005
58	CELA	2.560	AG	47	1.1343	-.1337	.0003	-.0009
58	CELA	2.560	CD	48	1.1308	-.1298	.0001	-.0011
58	CELA	2.560	SN	50	1.1391	-.1362	-.0021	-.0007
58	CELA	2.560	SB	51	1.1426	-.1389	-.0028	-.0009
58	CELA	2.560	CS	55	.9942	.0059	-.0001	.0000
58	CELA	2.560	BA	56	.9887	.0113	.0000	.0000

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
58	CELA	2.560	LA	57	.9937	.0063	.0000	.0000
58	CELA	2.560	HF	72	1.0085	.0023	-.0139	.0031
58	CELA	2.560	TA	73	1.0147	-.0054	-.0116	.0023
58	CELA	2.560	W	74	1.0195	-.0110	-.0103	.0018
58	CELA	2.560	RE	75	1.0257	-.0178	-.0092	.0013
58	CELA	2.560	PT	78	1.0389	-.0306	-.0089	.0006
58	CELA	2.560	AU	79	1.0461	-.0377	-.0089	.0005
58	CELA	2.560	PB	82	1.0563	-.0447	-.0120	.0004
58	CELA	2.560	TH	90	1.0474	-.0304	-.0179	.0008
58	CELA	2.560	U	92	1.0581	-.0377	-.0211	.0007
72	HFLA	1.570	B	5	1.1735	-.1104	-.0367	-.0263
72	HFLA	1.570	C	6	1.2116	-.1340	-.0447	-.0328
72	HFLA	1.570	N	7	1.2050	-.1316	-.0421	-.0312
72	HFLA	1.570	O	8	1.1992	-.1290	-.0411	-.0290
72	HFLA	1.570	F	9	1.1622	-.1072	-.0327	-.0222
72	HFLA	1.570	NA	11	1.1598	-.1105	-.0259	-.0234
72	HFLA	1.570	MG	12	1.1747	-.1211	-.0295	-.0241
72	HFLA	1.570	AL	13	1.1581	-.1116	-.0261	-.0203
72	HFLA	1.570	SI	14	1.1758	-.1246	-.0295	-.0216
72	HFLA	1.570	P	15	1.1574	-.1124	-.0292	-.0157
72	HFLA	1.570	S	16	1.1741	-.1266	-.0292	-.0182
72	HFLA	1.570	CL	17	1.1507	-.1127	-.0240	-.0140
72	HFLA	1.570	K	19	1.1593	-.1238	-.0212	-.0142
72	HFLA	1.570	CA	20	1.1758	-.1377	-.0225	-.0155
72	HFLA	1.570	SC	21	1.1393	-.1146	-.0130	-.0118
72	HFLA	1.570	TI	22	1.1316	-.1115	-.0090	-.0111
72	HFLA	1.570	V	23	1.1243	-.1078	-.0068	-.0097
72	HFLA	1.570	CR	24	1.1393	-.1211	-.0079	-.0103
72	HFLA	1.570	MN	25	1.1340	-.1185	-.0070	-.0085
72	HFLA	1.570	FE	26	1.1503	-.1331	-.0085	-.0087
72	HFLA	1.570	CO	27	1.1445	-.1296	-.0083	-.0066
72	HFLA	1.570	NI	28	1.1127	-.0834	-.0244	-.0049
72	HFLA	1.570	CU	29	1.0881	-.0654	-.0207	-.0019
72	HFLA	1.570	ZN	30	1.0908	-.0682	-.0209	-.0016
72	HFLA	1.570	GA	31	1.0547	.0016	-.0860	.0300
72	HFLA	1.570	GE	32	.9701	.2161	-.3106	.1254
72	HFLA	1.570	Y	39	1.0630	-.0460	-.0216	.0047
72	HFLA	1.570	ZR	40	1.0665	-.0550	-.0128	.0013
72	HFLA	1.570	NB	41	1.0723	-.0634	-.0082	-.0007
72	HFLA	1.570	MO	42	1.0694	-.0627	-.0050	-.0016
72	HFLA	1.570	PD	46	1.0664	-.0632	-.0004	-.0028
72	HFLA	1.570	AG	47	1.0714	-.0679	-.0009	-.0027
72	HFLA	1.570	CD	48	1.0617	-.0592	-.0008	-.0017
72	HFLA	1.570	SN	50	1.0569	-.0548	-.0014	-.0007
72	HFLA	1.570	SB	51	1.0551	-.0535	-.0010	-.0006

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
72	HFLA	1.570	CS	55	1.0546	-.0543	.0007	-.0010
72	HFLA	1.570	BA	56	1.0485	-.0466	.0011	-.0009
72	HFLA	1.570	LA	57	1.0535	-.0536	.0012	-.0011
72	HFLA	1.570	CE	58	1.0597	-.0597	.0010	-.0010
72	HFLA	1.570	TA	73	1.0005	-.0005	-.0000	.0000
72	HFLA	1.570	W	74	.9998	.0003	-.0000	.0000
72	HFLA	1.570	RE	75	1.0006	-.0006	-.0000	.0000
72	HFLA	1.570	PT	78	.9987	.0016	-.0003	.0000
72	HFLA	1.570	AU	79	.9608	.0528	-.0179	.0043
72	HFLA	1.570	PB	82	.9734	.0319	-.0066	.0013
72	HFLA	1.570	TH	90	.9899	.0143	-.0041	-.0001
72	HFLA	1.570	U	92	.9940	.0099	-.0032	-.0007
73	TALA	1.522	B	5	1.1786	-.1152	-.0369	-.0264
73	TALA	1.522	C	6	1.2168	-.1384	-.0463	-.0319
73	TALA	1.522	N	7	1.2100	-.1360	-.0426	-.0313
73	TALA	1.522	O	8	1.2041	-.1334	-.0413	-.0293
73	TALA	1.522	F	9	1.1666	-.1107	-.0340	-.0219
73	TALA	1.522	NA	11	1.1638	-.1128	-.0291	-.0219
73	TALA	1.522	MG	12	1.1786	-.1248	-.0289	-.0249
73	TALA	1.522	AL	13	1.1617	-.1149	-.0259	-.0209
73	TALA	1.522	SI	14	1.1791	-.1271	-.0306	-.0215
73	TALA	1.522	P	15	1.1604	-.1154	-.0281	-.0170
73	TALA	1.522	S	16	.1767	-.1282	-.0302	-.0182
73	TALA	1.522	CL	17	1.1529	-.1139	-.0254	-.0137
73	TALA	1.522	K	19	1.1607	-.1241	-.0225	-.0141
73	TALA	1.522	CA	20	1.1768	-.1378	-.0237	-.0153
73	TALA	1.522	SC	21	1.1399	-.1139	-.0149	-.0111
73	TALA	1.522	TI	22	1.1318	-.1110	-.0095	-.0114
73	TALA	1.522	V	23	1.1239	-.1066	-.0075	-.0098
73	TALA	1.522	CR	24	1.1384	-.1196	-.0083	-.0107
73	TALA	1.522	MN	25	1.1326	-.1162	-.0079	-.0086
73	TALA	1.522	FE	26	1.1483	-.1302	-.0094	-.0088
73	TALA	1.522	CO	27	1.1420	-.1263	-.0089	-.0069
73	TALA	1.522	NI	28	1.1152	-.0854	-.0250	-.0048
73	TALA	1.522	CU	29	1.0904	-.0675	-.0207	-.0022
73	TALA	1.522	ZN	30	1.0929	-.0700	-.0212	-.0018
73	TALA	1.522	GA	31	1.0531	.0122	-.1027	.0377
73	TALA	1.522	GE	32	1.0548	-.0073	-.0718	.0245
73	TALA	1.522	Y	39	1.0623	-.0423	-.0271	.0072
73	TALA	1.522	ZR	40	1.0665	-.0542	-.0138	.0015
73	TALA	1.522	NB	41	1.0724	-.0629	-.0092	-.0003
73	TALA	1.522	MO	42	1.0694	-.0624	-.0056	-.0014
73	TALA	1.522	PD	46	1.0655	-.0620	-.0009	-.0026
73	TALA	1.522	AG	47	1.0703	-.0665	-.0013	-.0025
73	TALA	1.522	CD	48	1.0605	-.0575	-.0014	-.0015

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
73	TALA	1.522	SN	50	1.0552	-.0525	-.0026	-.0000
73	TALA	1.522	SB	51	1.0532	-.0512	-.0016	-.0003
73	TALA	1.522	CS	55	1.0517	-.0511	-.0001	-.0005
73	TALA	1.522	BA	56	1.0453	-.0453	.0004	-.0004
73	TALA	1.522	LA	57	1.0501	-.0501	.0008	-.0008
73	TALA	1.522	CE	58	1.0560	-.0559	.0006	-.0007
73	TALA	1.522	HF	72	.9997	.0003	-.0000	-.0000
73	TALA	1.522	W	74	.9992	.0008	-.0000	.0000
73	TALA	1.522	RE	75	.9999	.0001	-.0000	.0000
73	TALA	1.522	PT	78	.9976	.0026	-.0002	.0000
73	TALA	1.522	AU	79	.9997	.0005	-.0002	.0000
73	TALA	1.522	PB	82	.9674	.0397	-.0090	.0019
73	TALA	1.522	TH	90	.9856	.0187	-.0043	.0000
73	TALA	1.522	U	92	.9898	.0138	-.0029	-.0008
73	TAMA	7.250	B	5	.9484	.1448	-.0397	-.0533
73	TAMA	7.250	C	6	1.0160	.0678	-.0016	-.0829
73	TAMA	7.250	N	7	1.0614	-.0150	.0527	-.0992
73	TAMA	7.250	O	8	1.1191	-.1145	.1122	-.1172
73	TAMA	7.250	F	9	1.1592	-.2156	.1884	-.1326
73	TAMA	7.250	NA	11	1.3339	-.4778	.3228	-.1800
73	TAMA	7.250	MG	12	1.4620	-.6454	.3886	-.2065
73	TAMA	7.250	AL	13	1.5537	-.7895	.4714	-.2371
73	TAMA	7.250	SI	14	.9661	.1277	-.0613	-.0323
73	TAMA	7.250	P	15	.9678	.1083	-.0470	-.0289
73	TAMA	7.250	S	16	1.0003	.0741	-.0407	-.0336
73	TAMA	7.250	CL	17	1.0017	.0522	-.0241	-.0297
73	TAMA	7.250	K	19	1.0578	-.0200	-.0053	-.0325
73	TAMA	7.250	CA	20	1.1005	-.0655	-.0001	-.0348
73	TAMA	7.250	SC	21	1.0971	-.0871	.0211	-.0312
73	TAMA	7.250	TI	22	1.1215	-.1235	.0335	-.0316
73	TAMA	7.250	V	23	1.1479	-.1612	.0456	-.0324
73	TAMA	7.250	CR	24	1.1979	-.2136	.0491	-.0335
73	TAMA	7.250	MN	25	1.2300	-.2550	.0596	-.0348
73	TAMA	7.250	FE	26	1.2858	-.3119	.0612	-.0352
73	TAMA	7.250	CO	27	1.3208	-.3551	.0714	-.0373
73	TAMA	7.250	NI	28	1.3926	-.4233	.0665	-.0359
73	TAMA	7.250	CU	29	1.4135	-.4561	.0843	-.0418
73	TAMA	7.250	ZN	30	1.4676	-.5120	.0884	-.0441
73	TAMA	7.250	GA	31	1.4987	-.5508	.1041	-.0522
73	TAMA	7.250	GE	32	1.5465	-.6013	.1132	-.0585
73	TAMA	7.250	Y	39	1.0273	-.0149	-.0084	-.0041
73	TAMA	7.250	ZR	40	1.0410	-.0307	-.0063	-.0039
73	TAMA	7.250	NB	41	1.0586	-.0496	-.0052	-.0038
73	TAMA	7.250	MO	42	1.0694	-.0632	-.0027	-.0035
73	TAMA	7.250	PD	46	1.1286	-.1286	.0028	-.0028

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
73	TAMA	7.250	AG	47	1.1510	-.1510	.0027	-.0026
73	TAMA	7.250	CD	48	1.1587	-.1604	.0044	-.0027
73	TAMA	7.250	SN	50	1.1906	-.1924	.0049	-.0031
73	TAMA	7.250	SB	51	1.2081	-.2094	.0047	-.0034
73	TAMA	7.250	CS	55	1.2905	-.2854	.0014	-.0064
73	TAMA	7.250	BA	56	1.3054	-.2975	.0002	-.0081
73	TAMA	7.250	LA	57	1.3338	-.3231	-.0013	-.0093
73	TAMA	7.250	CE	58	1.3644	-.3509	-.0029	-.0106
73	TAMA	7.250	HF	72	1.1147	-.1105	-.0037	-.0005
73	TAMA	7.250	W	74	1.0009	.0003	-.0015	.0003
73	TAMA	7.250	RE	75	1.0034	.0040	-.0116	.0043
73	TAMA	7.250	PT	78	1.0176	-.0120	-.0081	.0025
73	TAMA	7.250	AU	79	1.0253	-.0201	-.0073	.0021
73	TAMA	7.250	PB	82	1.0376	-.0310	-.0084	.0018
73	TAMA	7.250	TH	90	1.0904	-.0753	-.0157	.0006
73	TAMA	7.250	U	92	1.1083	-.0898	-.0184	-.0001
74	WLA	1.476	B	5	1.1853	-.1210	-.0371	-.0271
74	WLA	1.476	C	6	1.2236	-.1440	-.0472	-.0323
74	WLA	1.476	N	7	1.2167	-.1417	-.0429	-.0319
74	WLA	1.476	O	8	1.2105	-.1388	-.0416	-.0301
74	WLA	1.476	F	9	1.1727	-.1156	-.0349	-.0222
74	WLA	1.476	NA	11	1.1695	-.1172	-.0304	-.0219
74	WLA	1.476	MG	12	1.1842	-.1294	-.0291	-.0256
74	WLA	1.476	AL	13	1.1669	-.1191	-.0264	-.0214
74	WLA	1.476	SI	14	1.1841	-.1313	-.0303	-.0225
74	WLA	1.476	P	15	1.1650	-.1185	-.0298	-.0167
74	WLA	1.476	S	16	1.1810	-.1316	-.0304	-.0191
74	WLA	1.476	CL	17	1.1568	-.1166	-.0260	-.0142
74	WLA	1.476	K	19	1.1639	-.1260	-.0232	-.0147
74	WLA	1.476	CA	20	1.1796	-.1390	-.0251	-.0156
74	WLA	1.476	SC	21	1.1421	-.1144	-.0171	-.0106
74	WLA	1.476	TI	22	1.1335	-.1108	-.0121	-.0107
74	WLA	1.476	V	23	1.1254	-.1072	-.0080	-.0103
74	WLA	1.476	CR	24	1.1394	-.1195	-.0089	-.0112
74	WLA	1.476	MN	25	1.1331	-.1158	-.0083	-.0091
74	WLA	1.476	FE	26	1.1484	-.1292	-.0098	-.0094
74	WLA	1.476	CO	27	1.1415	-.1245	-.0101	-.0070
74	WLA	1.476	NI	28	1.1673	-.1450	-.0162	-.0062
74	WLA	1.476	CU	29	1.0942	-.0704	-.0216	-.0021
74	WLA	1.476	ZN	30	1.0966	-.0731	-.0214	-.0021
74	WLA	1.476	GA	31	1.0523	.0246	-.1236	.0472
74	WLA	1.476	GE	32	1.0550	.0004	-.0856	.0304
74	WLA	1.476	Y	39	1.0629	-.0389	-.0339	.0101
74	WLA	1.476	ZR	40	1.0677	-.0530	-.0180	.0034
74	WLA	1.476	NB	41	1.0740	-.0636	-.0104	.0000

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
74	WLA	1.476	MO	42	1.0710	-.0634	-.0063	-.0013
74	WLA	1.476	PD	46	1.0663	-.0623	-.0014	-.0025
74	WLA	1.476	AG	47	1.0709	-.0666	-.0020	-.0024
74	WLA	1.476	CD	48	1.0608	-.0574	-.0021	-.0013
74	WLA	1.476	SN	50	1.0550	-.0519	-.0035	.0003
74	WLA	1.476	SB	51	1.0528	-.0502	-.0030	.0004
74	WLA	1.476	CS	55	1.0505	-.0493	-.0014	.0003
74	WLA	1.476	BA	56	1.0439	-.0436	-.0003	-.0001
74	WLA	1.476	LA	57	1.0485	-.0480	-.0004	-.0000
74	WLA	1.476	CE	58	1.0541	-.0536	-.0005	-.0000
74	WLA	1.476	HF	72	1.0007	-.0007	-.0000	-.0000
74	WLA	1.476	TA	73	1.0009	-.0009	-.0000	-.0000
74	WLA	1.476	RE	75	1.0006	-.0006	-.0000	-.0000
74	WLA	1.476	PT	78	.9979	.0022	-.0001	.0000
74	WLA	1.476	AU	79	.9999	.0002	-.0001	.0000
74	WLA	1.476	PB	82	.9621	.0473	-.0121	.0027
74	WLA	1.476	TH	90	.9826	.0215	-.0038	-.0004
74	WLA	1.476	U	92	.9870	.0159	-.0017	-.0013
74	WMA	6.984	B	5	.9554	.1385	-.0409	-.0528
74	WMA	6.984	C	6	1.0208	.0670	-.0067	-.0809
74	WMA	6.984	N	7	1.0611	-.0083	.0424	-.0954
74	WMA	6.984	O	8	1.1136	-.0990	.0964	-.1113
74	WMA	6.984	F	9	1.1477	-.1902	.1656	-.1236
74	WMA	6.984	NA	11	1.3086	-.4309	.2869	-.1655
74	WMA	6.984	MG	12	1.4277	-.5854	.3456	-.1890
74	WMA	6.984	AL	13	1.5115	-.7173	.4197	-.2152
74	WMA	6.984	SI	14	.9719	.1218	-.0605	-.0329
74	WMA	6.984	P	15	.9720	.1047	-.0474	-.0292
74	WMA	6.984	S	16	1.0030	.0728	-.0418	-.0338
74	WMA	6.984	CL	17	1.0024	.0535	-.0263	-.0295
74	WMA	6.984	K	19	1.0544	-.0133	-.0090	-.0320
74	WMA	6.984	CA	20	1.0948	-.0560	-.0044	-.0344
74	WMA	6.984	SC	21	1.0890	-.0745	.0157	-.0302
74	WMA	6.984	TI	22	1.1109	-.1081	.0273	-.0302
74	WMA	6.984	V	23	1.1345	-.1427	.0386	-.0306
74	WMA	6.984	CR	24	1.1817	-.1919	.0419	-.0317
74	WMA	6.984	MN	25	1.2110	-.2302	.0517	-.0325
74	WMA	6.984	FE	26	1.2635	-.2838	.0531	-.0329
74	WMA	6.984	CO	27	1.2955	-.3237	.0626	-.0344
74	WMA	6.984	NI	28	1.3637	-.3884	.0578	-.0332
74	WMA	6.984	CU	29	1.3816	-.4181	.0742	-.0378
74	WMA	6.984	ZN	30	1.4321	-.4704	.0778	-.0396
74	WMA	6.984	GA	31	1.4600	-.5058	.0919	-.0462
74	WMA	6.984	GE	32	1.5042	-.5528	.0999	-.0514
74	WMA	6.984	Y	39	1.0225	-.0086	-.0098	-.0041

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
74	WMA	6.984	ZR	40	1.0352	-.0235	-.0078	-.0040
74	WMA	6.984	NB	41	1.0518	-.0412	-.0067	-.0039
74	WMA	6.984	MO	42	1.0616	-.0539	-.0042	-.0036
74	WMA	6.984	PD	46	1.1163	-.1152	.0017	-.0028
74	WMA	6.984	AG	47	1.1374	-.1365	.0017	-.0026
74	WMA	6.984	CD	48	1.1439	-.1449	.0035	-.0026
74	WMA	6.984	SN	50	1.1732	-.1749	.0044	-.0027
74	WMA	6.984	SB	51	1.1894	-.1909	.0044	-.0030
74	WMA	6.984	CS	55	1.2662	-.2627	.0017	-.0052
74	WMA	6.984	BA	56	1.2797	-.2739	.0007	-.0066
74	WMA	6.984	LA	57	1.3065	-.2983	-.0007	-.0075
74	WMA	6.984	CE	58	1.3355	-.3248	-.0022	-.0085
74	WMA	6.984	HF	72	1.4028	-.3655	-.0213	-.0160
74	WMA	6.984	TA	73	1.1148	-.1108	-.0036	-.0005
74	WMA	6.984	RE	75	1.0018	-.0006	-.0016	.0003
74	WMA	6.984	PT	78	1.0114	-.0051	-.0095	.0032
74	WMA	6.984	AU	79	1.0189	-.0131	-.0085	.0027
74	WMA	6.984	PB	82	1.0302	-.0235	-.0090	.0023
74	WMA	6.984	TH	90	1.0799	-.0663	-.0146	.0010
74	WMA	6.984	U	92	1.0969	-.0805	-.0167	.0003
75	RELA	1.433	B	5	1.1904	-.1258	-.0370	-.0275
75	RELA	1.433	C	6	1.2287	-.1491	-.0464	-.0331
75	RELA	1.433	N	7	1.2216	-.1462	-.0434	-.0319
75	RELA	1.433	O	8	1.2153	-.1436	-.0407	-.0309
75	RELA	1.433	F	9	1.1772	-.1198	-.0350	-.0224
75	RELA	1.433	NA	11	1.1735	-.1204	-.0313	-.0217
75	RELA	1.433	MG	12	1.1879	-.1314	-.0326	-.0239
75	RELA	1.433	AL	13	1.1706	-.1229	-.0254	-.0223
75	RELA	1.433	SI	14	1.1876	-.1342	-.0307	-.0227
75	RELA	1.433	P	15	1.1681	-.1213	-.0295	-.0173
75	RELA	1.433	S	16	1.1838	-.1329	-.0334	-.0175
75	RELA	1.433	CL	17	1.1593	-.1182	-.0271	-.0140
75	RELA	1.433	K	19	1.1656	-.1268	-.0247	-.0142
75	RELA	1.433	CA	20	1.1810	-.1395	-.0260	-.0155
75	RELA	1.433	SC	21	1.1430	-.1143	-.0184	-.0105
75	RELA	1.433	TI	22	1.1340	-.1100	-.0142	-.0100
75	RELA	1.433	V	23	1.1254	-.1056	-.0106	-.0093
75	RELA	1.433	CR	24	1.1392	-.1186	-.0100	-.0108
75	RELA	1.433	MN	25	1.1324	-.1146	-.0086	-.0094
75	RELA	1.433	FE	26	1.1472	-.1273	-.0104	-.0096
75	RELA	1.433	CO	27	1.1399	-.1223	-.0103	-.0074
75	RELA	1.433	NI	28	1.1651	-.1419	-.0173	-.0059
75	RELA	1.433	CU	29	1.0965	-.0727	-.0214	-.0025
75	RELA	1.433	ZN	30	1.0988	-.0752	-.0212	-.0025
75	RELA	1.433	GA	31	1.0809	-.0618	-.0185	-.0006

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
75	RELA	1.433	GE	32	1.0532	.0116	-.1026	.0381
75	RELA	1.433	Y	39	1.0619	-.0339	-.0410	.0132
75	RELA	1.433	ZR	40	1.0674	-.0504	-.0222	.0052
75	RELA	1.433	NB	41	1.0740	-.0618	-.0141	.0019
75	RELA	1.433	MO	42	1.0711	-.0625	-.0083	-.0002
75	RELA	1.433	PD	46	1.0657	-.0616	-.0017	-.0025
75	RELA	1.433	AG	47	1.0702	-.0656	-.0022	-.0024
75	RELA	1.433	CD	48	1.0599	-.0562	-.0025	-.0012
75	RELA	1.433	SN	50	1.0537	-.0502	-.0042	.0006
75	RELA	1.433	SB	51	1.0513	-.0483	-.0037	.0007
75	RELA	1.433	CS	55	1.0481	-.0466	-.0022	.0007
75	RELA	1.433	BA	56	1.0414	-.0405	-.0016	.0008
75	RELA	1.433	LA	57	1.0457	-.0448	-.0017	.0008
75	RELA	1.433	CE	58	1.0511	-.0501	-.0018	.0008
75	RELA	1.433	HF	72	1.0002	.0008	-.0021	.0011
75	RELA	1.433	TA	73	1.0005	-.0005	-.0000	-.0000
75	RELA	1.433	W	74	.9995	.0005	-.0000	-.0000
75	RELA	1.433	PT	78	.9969	.0031	-.0001	.0000
75	RELA	1.433	AU	79	.9988	.0013	-.0001	.0000
75	RELA	1.433	PB	82	.9548	.0577	-.0162	.0038
75	RELA	1.433	TH	90	.9783	.0264	-.0045	-.0002
75	RELA	1.433	U	92	.9831	.0195	-.0010	-.0016
75	REMA	6.732	B	5	.9610	.1324	-.0414	-.0518
75	REMA	6.732	C	6	1.0237	.0660	-.0108	-.0787
75	REMA	6.732	N	7	1.0600	-.0024	.0338	-.0915
75	REMA	6.732	O	8	1.1076	-.0851	.0829	-.1056
75	REMA	6.732	F	9	1.1362	-.1671	.1458	-.1153
75	REMA	6.732	NA	11	1.2841	-.3880	.2556	-.1526
75	REMA	6.732	MG	12	1.3950	-.5305	.3082	-.1737
75	REMA	6.732	AL	13	1.4713	-.6511	.3748	-.1962
75	REMA	6.732	SI	14	1.5915	-.7933	.4119	-.2113
75	REMA	6.732	P	15	.9750	.1014	-.0471	-.0291
75	REMA	6.732	S	16	1.0045	.0715	-.0423	-.0336
75	REMA	6.732	CL	17	1.0022	.0547	-.0278	-.0290
75	REMA	6.732	K	19	1.0503	-.0070	-.0119	-.0313
75	REMA	6.732	CA	20	1.0886	-.0470	-.0077	-.0338
75	REMA	6.732	SC	21	1.0805	-.0627	.0113	-.0290
75	REMA	6.732	TI	22	1.1000	-.0934	.0222	-.0288
75	REMA	6.732	V	23	1.1212	-.1251	.0328	-.0290
75	REMA	6.732	CR	24	1.1656	-.1714	.0358	-.0301
75	REMA	6.732	MN	25	1.1922	-.2067	.0451	-.0306
75	REMA	6.732	FE	26	1.2417	-.2571	.0464	-.0310
75	REMA	6.732	CO	27	1.2708	-.2939	.0552	-.0321
75	REMA	6.732	NI	28	1.3356	-.3552	.0507	-.0311
75	REMA	6.732	CU	29	1.3506	-.3819	.0658	-.0346

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
75	REMA	6.732	ZN	30	1.3977	-.4309	.0690	-.0359
75	REMA	6.732	GA	31	1.4226	-.4631	.0818	-.0414
75	REMA	6.732	GE	32	1.4634	-.5067	.0888	-.0457
75	REMA	6.732	Y	39	1.0171	-.0022	-.0108	-.0041
75	REMA	6.732	ZR	40	1.0288	-.0161	-.0088	-.0040
75	REMA	6.732	NB	41	1.0445	-.0328	-.0077	-.0039
75	REMA	6.732	MO	42	1.0533	-.0444	-.0052	-.0036
75	REMA	6.732	PD	46	1.1037	-.1016	.0008	-.0028
75	REMA	6.732	AG	47	1.1236	-.1218	.0009	-.0026
75	REMA	6.732	CD	48	1.1290	-.1293	.0028	-.0025
75	REMA	6.732	SN	50	1.1559	-.1573	.0040	-.0025
75	REMA	6.732	SB	51	1.1708	-.1722	.0041	-.0027
75	REMA	6.732	CS	55	1.2421	-.2398	.0020	-.0044
75	REMA	6.732	BA	56	1.2544	-.2501	.0012	-.0055
75	REMA	6.732	LA	57	1.2796	-.2733	-.0001	-.0062
75	REMA	6.732	CE	58	1.3070	-.2985	-.0016	-.0070
75	REMA	6.732	HF	72	1.3695	-.3373	-.0192	-.0129
75	REMA	6.732	TA	73	1.3898	-.3538	-.0211	-.0149
75	REMA	6.732	W	74	1.1120	-.1078	-.0037	-.0005
75	REMA	6.732	PT	78	1.0043	.0032	-.0114	.0040
75	REMA	6.732	AU	79	1.0114	-.0048	-.0101	.0034
75	REMA	6.732	PB	82	1.0219	-.0147	-.0102	.0030
75	REMA	6.732	TH	90	1.0685	-.0558	-.0142	.0015
75	REMA	6.732	U	92	1.0846	-.0696	-.0157	.0007
78	PTLA	1.313	B	5	1.2124	-.1440	-.0395	-.0288
78	PTLA	1.313	C	6	1.2514	-.1691	-.0459	-.0362
78	PTLA	1.313	N	7	1.2439	-.1660	-.0419	-.0358
78	PTLA	1.313	O	8	1.2371	-.1631	-.0394	-.0345
78	PTLA	1.313	F	9	1.1977	-.1362	-.0382	-.0232
78	PTLA	1.313	NA	11	1.1929	-.1365	-.0327	-.0237
78	PTLA	1.313	MG	12	1.2069	-.1468	-.0338	-.0262
78	PTLA	1.313	AL	13	1.1887	-.1373	-.0275	-.0239
78	PTLA	1.313	SI	14	1.2054	-.1495	-.0299	-.0260
78	PTLA	1.313	P	15	1.1847	-.1343	-.0320	-.0184
78	PTLA	1.313	S	16	1.1999	-.1455	-.0350	-.0194
78	PTLA	1.313	CL	17	1.1742	-.1305	-.0265	-.0172
78	PTLA	1.313	K	19	1.1787	-.1364	-.0263	-.0159
78	PTLA	1.313	CA	20	1.1932	-.1476	-.0295	-.0161
78	PTLA	1.313	SC	21	1.1538	-.1214	-.0204	-.0119
78	PTLA	1.313	TI	22	1.1436	-.1157	-.0173	-.0107
78	PTLA	1.313	V	23	1.1337	-.1097	-.0145	-.0095
78	PTLA	1.313	CR	24	1.1464	-.1209	-.0150	-.0105
78	PTLA	1.313	MN	25	1.1385	-.1159	-.0134	-.0092
78	PTLA	1.313	FE	26	1.1523	-.1284	-.0140	-.0098
78	PTLA	1.313	CO	27	1.1438	-.1234	-.0113	-.0092

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
78	PTLA	1.313	NI	28	1.1677	-.1409	-.0190	-.0077
78	PTLA	1.313	CU	29	1.1438	-.1242	-.0144	-.0052
78	PTLA	1.313	ZN	30	1.1118	-.0865	-.0212	-.0041
78	PTLA	1.313	GA	31	1.0933	-.0728	-.0178	-.0027
78	PTLA	1.313	GE	32	1.0877	-.0690	-.0167	-.0020
78	PTLA	1.313	Y	39	1.0630	-.0182	-.0677	.0231
78	PTLA	1.313	ZR	40	1.0724	-.0476	-.0328	.0082
78	PTLA	1.313	NB	41	1.0810	-.0661	-.0153	.0005
78	PTLA	1.313	MO	42	1.0782	-.0674	-.0102	-.0007
78	PTLA	1.313	PD	46	1.0710	-.0653	-.0024	-.0034
78	PTLA	1.313	AG	47	1.0752	-.0701	-.0005	-.0046
78	PTLA	1.313	CD	48	1.0642	-.0598	-.0014	-.0031
78	PTLA	1.313	SN	50	1.0569	-.0523	-.0040	-.0006
78	PTLA	1.313	SB	51	1.0540	-.0501	-.0034	-.0005
78	PTLA	1.313	CS	55	1.0486	-.0464	-.0020	-.0003
78	PTLA	1.313	BA	56	1.0413	-.0398	-.0013	-.0002
78	PTLA	1.313	LA	57	1.0450	-.0435	-.0013	-.0002
78	PTLA	1.313	CE	58	1.0500	-.0483	-.0015	-.0002
78	PTLA	1.313	HF	72	1.0052	-.0050	-.0002	-.0000
78	PTLA	1.313	TA	73	1.0051	-.0049	-.0002	-.0000
78	PTLA	1.313	W	74	1.0037	-.0036	-.0001	-.0000
78	PTLA	1.313	RE	75	1.0040	-.0039	-.0001	-.0000
78	PTLA	1.313	AU	79	1.0016	-.0016	.0000	-.0000
78	PTLA	1.313	PB	82	.9952	.0061	-.0031	.0018
78	PTLA	1.313	TH	90	.9761	.0242	.0033	-.0037
78	PTLA	1.313	U	92	.9781	.0230	.0025	-.0036
78	PTMA	6.049	B	5	.9824	.1120	-.0425	-.0517
78	PTMA	6.049	C	6	1.0385	.0575	-.0202	-.0756
78	PTMA	6.049	N	7	1.0652	.0059	.0133	-.0843
78	PTMA	6.049	O	8	1.1009	-.0571	.0502	-.0940
78	PTMA	6.049	F	9	1.1156	-.1167	.0979	-.0971
78	PTMA	6.049	NA	11	1.2313	-.2888	.1801	-.1231
78	PTMA	6.049	MG	12	1.3215	-.4021	.2185	-.1387
78	PTMA	6.049	AL	13	1.3791	-.4951	.2673	-.1521
78	PTMA	6.049	SI	14	1.4785	-.6101	.2934	-.1628
78	PTMA	6.049	P	15	.9897	.0878	-.0469	-.0305
78	PTMA	6.049	S	16	1.0157	.0630	-.0437	-.0348
78	PTMA	6.049	CL	17	1.0089	.0523	-.0318	-.0292
78	PTMA	6.049	K	19	1.0474	.0032	-.0197	-.0308
78	PTMA	6.049	CA	20	1.0801	-.0300	-.0168	-.0333
78	PTMA	6.049	SC	21	1.0663	-.0386	-.0005	-.0272
78	PTMA	6.049	TI	22	1.0798	-.0621	.0086	-.0262
78	PTMA	6.049	V	23	1.0947	-.0866	.0175	-.0257
78	PTMA	6.049	CR	24	1.1321	-.1251	.0198	-.0268
78	PTMA	6.049	MN	25	1.1518	-.1529	.0275	-.0265

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
78	PTMA	6.049	FE	26	1.1937	-.1952	.0285	-.0270
78	PTMA	6.049	CO	27	1.2154	-.2244	.0358	-.0269
78	PTMA	6.049	NI	28	1.2716	-.2769	.0319	-.0266
78	PTMA	6.049	CU	29	1.2793	-.2962	.0443	-.0275
78	PTMA	6.049	ZN	30	1.3179	-.3368	.0467	-.0279
78	PTMA	6.049	GA	31	1.3350	-.3613	.0567	-.0305
78	PTMA	6.049	GE	32	1.3673	-.3966	.0618	-.0327
78	PTMA	6.049	Y	39	1.0098	.0089	-.0141	-.0045
78	PTMA	6.049	ZR	40	1.0191	-.0024	-.0124	-.0043
78	PTMA	6.049	NB	41	1.0322	-.0165	-.0113	-.0043
78	PTMA	6.049	MO	42	1.0384	-.0256	-.0089	-.0039
78	PTMA	6.049	PD	46	1.0777	-.0723	-.0025	-.0030
78	PTMA	6.049	AG	47	1.0946	-.0895	-.0023	-.0028
78	PTMA	6.049	CD	48	1.0971	-.0947	.0001	-.0025
78	PTMA	6.049	SN	50	1.1176	-.1174	.0019	-.0021
78	PTMA	6.049	SB	51	1.1293	-.1297	.0025	-.0021
78	PTMA	6.049	CS	55	1.1865	-.1863	.0023	-.0026
78	PTMA	6.049	BA	56	1.1953	-.1943	.0021	-.0031
78	PTMA	6.049	LA	57	1.2166	-.2144	.0011	-.0034
78	PTMA	6.049	CE	58	1.2400	-.2363	-.0000	-.0037
78	PTMA	6.049	HF	72	1.2896	-.2705	-.0126	-.0065
78	PTMA	6.049	TA	73	1.3065	-.2847	-.0142	-.0076
78	PTMA	6.049	W	74	1.3223	-.2973	-.0161	-.0089
78	PTMA	6.049	RE	75	1.3403	-.3123	-.0177	-.0102
78	PTMA	6.049	AU	79	1.0011	.0007	-.0024	.0005
78	PTMA	6.049	PB	82	1.0055	.0025	-.0120	.0041
78	PTMA	6.049	TH	90	1.0450	-.0368	-.0093	.0012
78	PTMA	6.049	U	92	1.0575	-.0467	-.0122	.0014
79	AULA	1.276	B	5	1.2165	-.1467	-.0425	-.0272
79	AULA	1.276	C	6	1.2554	-.1709	-.0514	-.0330
79	AULA	1.276	N	7	1.2481	-.1700	-.0432	-.0348
79	AULA	1.276	O	8	1.2412	-.1676	-.0390	-.0345
79	AULA	1.276	F	9	1.2016	-.1421	-.0332	-.0263
79	AULA	1.276	NA	11	1.1965	-.1399	-.0330	-.0235
79	AULA	1.276	MG	12	1.2102	-.1498	-.0349	-.0255
79	AULA	1.276	AL	13	1.1916	-.1385	-.0318	-.0213
79	AULA	1.276	SI	14	1.2081	-.1505	-.0346	-.0230
79	AULA	1.276	P	15	1.1874	-.1369	-.0322	-.0183
79	AULA	1.276	S	16	1.2024	-.1486	-.0335	-.0203
79	AULA	1.276	CL	17	1.1763	-.1321	-.0279	-.0163
79	AULA	1.276	K	19	1.1803	-.1378	-.0267	-.0158
79	AULA	1.276	CA	20	1.1946	-.1494	-.0281	-.0171
79	AULA	1.276	SC	21	1.1548	-.1224	-.0204	-.0121
79	AULA	1.276	TI	22	1.1443	-.1160	-.0178	-.0105
79	AULA	1.276	V	23	1.1340	-.1098	-.0141	-.0100

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
79	AULA	1.276	CR	24	1.1463	-.1201	-.0163	-.0099
79	AULA	1.276	MN	25	1.1381	-.1151	-.0139	-.0092
79	AULA	1.276	FE	26	1.1514	-.1263	-.0161	-.0089
79	AULA	1.276	CO	27	1.1426	-.1204	-.0149	-.0072
79	AULA	1.276	NI	28	1.1663	-.1392	-.0195	-.0076
79	AULA	1.276	CU	29	1.1420	-.1219	-.0148	-.0052
79	AULA	1.276	ZN	30	1.1462	-.1266	-.0145	-.0051
79	AULA	1.276	GA	31	1.0947	-.0742	-.0177	-.0027
79	AULA	1.276	GE	32	1.0889	-.0706	-.0159	-.0024
79	AULA	1.276	Y	39	1.0597	-.0076	-.0807	.0288
79	AULA	1.276	ZR	40	1.0710	-.0427	-.0391	.0110
79	AULA	1.276	NB	41	1.0805	-.0653	-.0155	.0003
79	AULA	1.276	MO	42	1.0780	-.0673	-.0095	-.0012
79	AULA	1.276	PD	46	1.0700	-.0634	-.0041	-.0026
79	AULA	1.276	AG	47	1.0739	-.0670	-.0045	-.0025
79	AULA	1.276	CD	48	1.0630	-.0574	-.0038	-.0017
79	AULA	1.276	SN	50	1.0555	-.0509	-.0041	-.0006
79	AULA	1.276	SB	51	1.0525	-.0485	-.0035	-.0005
79	AULA	1.276	CS	55	1.0465	-.0441	-.0021	-.0003
79	AULA	1.276	BA	56	1.0390	-.0375	-.0013	-.0002
79	AULA	1.276	LA	57	1.0425	-.0409	-.0014	-.0002
79	AULA	1.276	CE	58	1.0473	-.0456	-.0015	-.0002
79	AULA	1.276	HF	72	1.0232	-.0231	-.0001	-.0000
79	AULA	1.276	TA	73	1.0040	-.0039	-.0002	-.0000
79	AULA	1.276	W	74	1.0026	-.0025	-.0001	-.0000
79	AULA	1.276	RE	75	1.0028	-.0027	-.0001	-.0000
79	AULA	1.276	PT	78	.9985	.0015	.0000	.0000
79	AULA	1.276	PB	82	.9932	.0070	-.0001	.0000
79	AULA	1.276	TH	90	.9713	.0300	.0006	-.0020
79	AULA	1.276	U	92	.9760	.0243	.0015	-.0019
79	AUMA	5.843	B	5	.9866	.1062	-.0419	-.0507
79	AUMA	5.843	C	6	1.0409	.0551	-.0219	-.0738
79	AUMA	5.843	N	7	1.0647	.0082	.0085	-.0814
79	AUMA	5.843	O	8	1.0970	-.0492	.0421	-.0899
79	AUMA	5.843	F	9	1.1079	-.1024	.0860	-.0917
79	AUMA	5.843	NA	11	1.2141	-.2606	.1610	-.1150
79	AUMA	5.843	MG	12	1.2984	-.3654	.1957	-.1293
79	AUMA	5.843	AL	13	1.3505	-.4506	.2400	-.1407
79	AUMA	5.843	SI	14	1.4438	-.5577	.2636	-.1505
79	AUMA	5.843	P	15	.9920	.0843	-.0460	-.0302
79	AUMA	5.843	S	16	1.0170	.0608	-.0432	-.0344
79	AUMA	5.843	CL	17	1.0089	.0520	-.0321	-.0287
79	AUMA	5.843	K	19	1.0446	.0066	-.0210	-.0301
79	AUMA	5.843	CA	20	1.0757	-.0245	-.0184	-.0327
79	AUMA	5.843	SC	21	1.0603	-.0310	-.0029	-.0263

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
79	AUMA	5.843	TI	22	1.0720	-.0524	.0057	-.0253
79	AUMA	5.843	V	23	1.0850	-.0746	.0141	-.0246
79	AUMA	5.843	CR	24	1.1205	-.1109	.0161	-.0258
79	AUMA	5.843	MN	25	1.1381	-.1363	.0235	-.0253
79	AUMA	5.843	FE	26	1.1777	-.1762	.0244	-.0259
79	AUMA	5.843	CO	27	1.1972	-.2030	.0313	-.0256
79	AUMA	5.843	NI	28	1.2507	-.2529	.0277	-.0256
79	AUMA	5.843	CU	29	1.2563	-.2698	.0394	-.0259
79	AUMA	5.843	ZN	30	1.2924	-.3079	.0416	-.0262
79	AUMA	5.843	GA	31	1.3072	-.3301	.0509	-.0282
79	AUMA	5.843	GE	32	1.3369	-.3628	.0557	-.0299
79	AUMA	5.843	Y	39	1.3564	-.3693	.0316	-.0187
79	AUMA	5.843	ZR	40	1.0142	.0028	-.0128	-.0042
79	AUMA	5.843	NB	41	1.0266	-.0104	-.0118	-.0043
79	AUMA	5.843	MO	42	1.0320	-.0187	-.0095	-.0039
79	AUMA	5.843	PD	46	1.0680	-.0620	-.0031	-.0030
79	AUMA	5.843	AG	47	1.0839	-.0782	-.0028	-.0029
79	AUMA	5.843	CD	48	1.0856	-.0827	-.0004	-.0025
79	AUMA	5.843	SN	50	1.1042	-.1037	.0015	-.0021
79	AUMA	5.843	SB	51	1.1149	-.1150	.0022	-.0021
79	AUMA	5.843	CS	55	1.1678	-.1679	.0024	-.0023
79	AUMA	5.843	BA	56	1.1756	-.1752	.0024	-.0027
79	AUMA	5.843	LA	57	1.1957	-.1942	.0015	-.0029
79	AUMA	5.843	CE	58	1.2178	-.2150	.0004	-.0031
79	AUMA	5.843	HF	72	1.3211	-.2979	-.0143	-.0089
79	AUMA	5.843	TA	73	1.2792	-.2606	-.0125	-.0061
79	AUMA	5.843	W	74	1.2940	-.2725	-.0143	-.0071
79	AUMA	5.843	RE	75	1.3109	-.2867	-.0159	-.0083
79	AUMA	5.843	PT	78	1.1050	-.1009	-.0036	-.0004
79	AUMA	5.843	PB	82	.9977	.0116	-.0144	.0051
79	AUMA	5.843	TH	90	1.0349	-.0267	-.0098	.0016
79	AUMA	5.843	U	92	1.0466	-.0358	-.0127	.0020
82	PBLA	1.175	B	5	1.2449	-.1705	-.0450	-.0293
82	PBLA	1.175	C	6	1.2842	-.1926	-.0592	-.0321
82	PBLA	1.175	N	7	1.2765	-.1910	-.0530	-.0323
82	PBLA	1.175	O	8	1.2697	-.1936	-.0373	-.0387
82	PBLA	1.175	F	9	1.2287	-.1663	-.0326	-.0299
82	PBLA	1.175	NA	11	1.2224	-.1623	-.0333	-.0267
82	PBLA	1.175	MG	12	1.2360	-.1729	-.0332	-.0298
82	PBLA	1.175	AL	13	1.2163	-.1582	-.0361	-.0219
82	PBLA	1.175	SI	14	1.2324	-.1684	-.0420	-.0219
82	PBLA	1.175	P	15	1.2102	-.1508	-.0451	-.0141
82	PBLA	1.175	S	16	1.2252	-.1646	-.0421	-.0184
82	PBLA	1.175	CL	17	1.1984	-.1505	-.0299	-.0179
82	PBLA	1.175	K	19	1.2009	-.1561	-.0251	-.0197

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
82	PBLA	1.175	CA	20	1.2146	-.1674	-.0250	-.0222
82	PBLA	1.175	SC	21	1.1732	-.1364	-.0247	-.0120
82	PBLA	1.175	TI	22	1.1616	-.1307	-.0171	-.0139
82	PBLA	1.175	V	23	1.1502	-.1223	-.0162	-.0117
82	PBLA	1.175	CR	24	1.1617	-.1320	-.0176	-.0122
82	PBLA	1.175	MN	25	1.1523	-.1242	-.0202	-.0079
82	PBLA	1.175	FE	26	1.1644	-.1322	-.0258	-.0063
82	PBLA	1.175	CO	27	1.1547	-.1262	-.0230	-.0054
82	PBLA	1.175	NI	28	1.1773	-.1415	-.0329	-.0028
82	PBLA	1.175	CU	29	1.1518	-.1239	-.0274	-.0004
82	PBLA	1.175	ZN	30	1.1553	-.1295	-.0236	-.0021
82	PBLA	1.175	GA	31	1.1379	-.1203	-.0127	-.0048
82	PBLA	1.175	GE	32	1.1064	-.0863	-.0164	-.0035
82	PBLA	1.175	Y	39	1.0707	-.0188	-.0740	.0222
82	PBLA	1.175	ZR	40	1.0798	-.0429	-.0494	.0126
82	PBLA	1.175	NB	41	1.0922	-.0731	-.0184	-.0007
82	PBLA	1.175	MO	42	1.0913	-.0822	-.0014	-.0078
82	PBLA	1.175	PD	46	1.0813	-.0742	-.0011	-.0062
82	PBLA	1.175	AG	47	1.0847	-.0759	-.0044	-.0045
82	PBLA	1.175	CD	48	1.0729	-.0645	-.0063	-.0022
82	PBLA	1.175	SN	50	1.0643	-.0542	-.0135	.0034
82	PBLA	1.175	SB	51	1.0609	-.0517	-.0124	.0033
82	PBLA	1.175	CS	55	1.0538	-.0502	-.0032	-.0004
82	PBLA	1.175	BA	56	1.0458	-.0432	-.0023	-.0003
82	PBLA	1.175	LA	57	1.0489	-.0462	-.0024	-.0003
82	PBLA	1.175	CE	58	1.0533	-.0504	-.0026	-.0003
82	PBLA	1.175	HF	72	1.0274	-.0270	-.0004	-.0000
82	PBLA	1.175	TA	73	1.0274	-.0270	-.0003	-.0000
82	PBLA	1.175	W	74	1.0261	-.0258	-.0002	-.0000
82	PBLA	1.175	RE	75	1.0264	-.0262	-.0002	-.0000
82	PBLA	1.175	PT	78	1.0065	-.0064	-.0001	-.0000
82	PBLA	1.175	AU	79	1.0077	-.0076	-.0001	-.0000
82	PBLA	1.175	TH	90	.9875	.0120	-.0007	.0012
82	PBLA	1.175	U	92	.9744	.0253	-.0010	.0013
82	PBMA	5.285	B	5	1.0097	.0855	-.0421	-.0528
82	PBMA	5.285	C	6	1.0598	.0420	-.0272	-.0743
82	PBMA	5.285	N	7	1.0770	.0063	-.0040	-.0791
82	PBMA	5.285	O	8	1.1011	-.0379	.0216	-.0847
82	PBMA	5.285	F	9	1.1021	-.0757	.0554	-.0819
82	PBMA	5.285	NA	11	1.1856	-.2003	.1125	-.0982
82	PBMA	5.285	MG	12	1.2554	-.2849	.1385	-.1094
82	PBMA	5.285	AL	13	1.2939	-.3511	.1719	-.1152
82	PBMA	5.285	SI	14	1.3723	-.4393	.1890	-.1227
82	PBMA	5.285	P	15	1.4215	-.5182	.2287	-.1326
82	PBMA	5.285	S	16	1.0326	.0484	-.0439	-.0370

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
82	PBMA	5.285	CL	17	1.0212	.0441	-.0348	-.0303
82	PBMA	5.285	K	19	1.0502	.0075	-.0263	-.0313
82	PBMA	5.285	CA	20	1.0776	-.0189	-.0245	-.0340
82	PBMA	5.285	SC	21	1.0578	-.0201	-.0114	-.0262
82	PBMA	5.285	TI	22	1.0650	-.0363	-.0042	-.0245
82	PBMA	5.285	V	23	1.0735	-.0532	.0030	-.0232
82	PBMA	5.285	CR	24	1.1039	-.0838	.0044	-.0246
82	PBMA	5.285	MN	25	1.1165	-.1037	.0107	-.0235
82	PBMA	5.285	FE	26	1.1506	-.1375	.0112	-.0243
82	PBMA	5.285	CO	27	1.1645	-.1586	.0173	-.0233
82	PBMA	5.285	NI	28	1.2118	-.2019	.0140	-.0239
82	PBMA	5.285	CU	29	1.2118	-.2135	.0242	-.0226
82	PBMA	5.285	ZN	30	1.2417	-.2454	.0261	-.0224
82	PBMA	5.285	GA	31	1.2505	-.2620	.0341	-.0227
82	PBMA	5.285	GE	32	1.2740	-.2887	.0380	-.0233
82	PBMA	5.285	Y	39	1.4214	-.4356	.0385	-.0245
82	PBMA	5.285	ZR	40	1.4451	-.4582	.0384	-.0254
82	PBMA	5.285	NB	41	1.0242	-.0039	-.0153	-.0049
82	PBMA	5.285	MO	42	1.0277	-.0103	-.0130	-.0045
82	PBMA	5.285	PD	46	1.0554	-.0453	-.0067	-.0034
82	PBMA	5.285	AG	47	1.0690	-.0593	-.0063	-.0033
82	PBMA	5.285	CD	48	1.0683	-.0619	-.0037	-.0027
82	PBMA	5.285	SN	50	1.0822	-.0787	-.0013	-.0022
82	PBMA	5.285	SB	51	1.0903	-.0880	-.0003	-.0020
82	PBMA	5.285	CS	55	1.1324	-.1322	.0015	-.0017
82	PBMA	5.285	BA	56	1.1375	-.1377	.0020	-.0019
82	PBMA	5.285	LA	57	1.1546	-.1542	.0015	-.0019
82	PBMA	5.285	CE	58	1.1735	-.1724	.0008	-.0019
82	PBMA	5.285	HF	72	1.2569	-.2439	-.0087	-.0043
82	PBMA	5.285	TA	73	1.2718	-.2568	-.0100	-.0051
82	PBMA	5.285	W	74	1.2856	-.2681	-.0115	-.0060
82	PBMA	5.285	RE	75	1.3015	-.2818	-.0129	-.0069
82	PBMA	5.285	PT	78	1.2871	-.2664	-.0142	-.0064
82	PBMA	5.285	AU	79	1.3043	-.2814	-.0154	-.0074
82	PBMA	5.285	TH	90	1.0196	-.0126	-.0094	.0024
82	PBMA	5.285	U	92	1.0293	-.0209	-.0110	.0025
90	THMA	4.137	B	5	1.0566	.0419	-.0403	-.0579
90	THMA	4.137	C	6	1.1003	.0105	-.0334	-.0769
90	THMA	4.137	N	7	1.1064	-.0070	-.0216	-.0774
90	THMA	4.137	O	8	1.1166	-.0293	-.0085	-.0785
90	THMA	4.137	F	9	1.1007	-.0412	.0093	-.0687
90	THMA	4.137	NA	11	1.1447	-.1087	.0391	-.0751
90	THMA	4.137	MG	12	1.1891	-.1587	.0519	-.0824
90	THMA	4.137	AL	13	1.2034	-.1920	.0693	-.0808
90	THMA	4.137	SI	14	1.2548	-.2465	.0775	-.0860

TABLE A1.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
90	THMA	4.137	P	15	1.2746	-.2868	.0974	-.0854
90	THMA	4.137	S	16	1.3300	-.3452	.1039	-.0889
90	THMA	4.137	CL	17	1.3479	-.3853	.1268	-.0897
90	THMA	4.137	K	19	1.0665	.0015	-.0334	-.0345
90	THMA	4.137	CA	20	1.0874	-.0166	-.0330	-.0376
90	THMA	4.137	SC	21	1.0597	-.0084	-.0236	-.0276
90	THMA	4.137	TI	22	1.0592	-.0151	-.0191	-.0249
90	THMA	4.137	V	23	1.0593	-.0223	-.0143	-.0226
90	THMA	4.137	CR	24	1.0810	-.0426	-.0141	-.0242
90	THMA	4.137	MN	25	1.0843	-.0522	-.0098	-.0223
90	THMA	4.137	FE	26	1.1084	-.0747	-.0101	-.0236
90	THMA	4.137	CO	27	1.1123	-.0850	-.0057	-.0216
90	THMA	4.137	NI	28	1.1481	-.1157	-.0087	-.0237
90	THMA	4.137	CU	29	1.1379	-.1171	-.0009	-.0199
90	THMA	4.137	ZN	30	1.1561	-.1371	.0006	-.0196
90	THMA	4.137	GA	31	1.1540	-.1432	.0068	-.0176
90	THMA	4.137	GE	32	1.1656	-.1585	.0099	-.0170
90	THMA	4.137	Y	39	1.2968	-.3007	.0196	-.0157
90	THMA	4.137	ZR	40	1.3137	-.3178	.0196	-.0155
90	THMA	4.137	NB	41	1.3398	-.3436	.0193	-.0156
90	THMA	4.137	MO	42	1.3574	-.3619	.0207	-.0162
90	THMA	4.137	PD	46	1.0363	-.0179	-.0136	-.0048
90	THMA	4.137	AG	47	1.0455	-.0273	-.0134	-.0048
90	THMA	4.137	CD	48	1.0407	-.0261	-.0107	-.0038
90	THMA	4.137	SN	50	1.0454	-.0344	-.0080	-.0029
90	THMA	4.137	SB	51	1.0487	-.0394	-.0067	-.0027
90	THMA	4.137	CS	55	1.0702	-.0653	-.0031	-.0019
90	THMA	4.137	BA	56	1.0701	-.0669	-.0016	-.0016
90	THMA	4.137	LA	57	1.0813	-.0781	-.0017	-.0015
90	THMA	4.137	CE	58	1.0942	-.0909	-.0018	-.0015
90	THMA	4.137	HF	72	1.2211	-.2144	-.0045	-.0022
90	THMA	4.137	TA	73	1.2332	-.2253	-.0053	-.0026
90	THMA	4.137	W	74	1.2441	-.2348	-.0063	-.0030
90	THMA	4.137	RE	75	1.2571	-.2465	-.0072	-.0035
90	THMA	4.137	PT	78	1.1912	-.1848	-.0051	-.0013
90	THMA	4.137	AU	79	1.2038	-.1965	-.0057	-.0016
90	THMA	4.137	PB	82	1.1888	-.1812	-.0058	-.0018
90	THMA	4.137	U	92	1.0021	-.0010	-.0014	.0003
92	UMA	3.911	B	5	1.0664	.0333	-.0402	-.0592
92	UMA	3.911	C	6	1.1092	.0036	-.0344	-.0779
92	UMA	3.911	N	7	1.1135	-.0110	-.0244	-.0777
92	UMA	3.911	O	8	1.1215	-.0299	-.0131	-.0782
92	UMA	3.911	F	9	1.1027	-.0376	.0023	-.0672
92	UMA	3.911	NA	11	1.1404	-.0960	.0279	-.0722
92	UMA	3.911	MG	12	1.1806	-.1404	.0390	-.0792

TABLE A1.- Concluded

Z_A	A	λ_A, Å	B	Z_B	p0	p1	p2	p3
92	UMA	3.911	AL	13	1.1908	-.1684	.0539	-.0764
92	UMA	3.911	SI	14	1.2378	-.2171	.0608	-.0814
92	UMA	3.911	P	15	1.2525	-.2512	.0781	-.0796
92	UMA	3.911	S	16	1.3029	-.3038	.0837	-.0830
92	UMA	3.911	CL	17	1.3155	-.3373	.1035	-.0819
92	UMA	3.911	K	19	1.0711	-.0009	-.0348	-.0354
92	UMA	3.911	CA	20	1.0909	-.0176	-.0346	-.0385
92	UMA	3.911	SC	21	1.0620	-.0079	-.0258	-.0281
92	UMA	3.911	TI	22	1.0601	-.0131	-.0216	-.0253
92	UMA	3.911	V	23	1.0588	-.0187	-.0172	-.0229
92	UMA	3.911	CR	24	1.0791	-.0373	-.0172	-.0246
92	UMA	3.911	MN	25	1.0808	-.0450	-.0133	-.0225
92	UMA	3.911	FE	26	1.1032	-.0656	-.0138	-.0238
92	UMA	3.911	CO	27	1.1054	-.0741	-.0096	-.0217
92	UMA	3.911	NI	28	1.1393	-.1026	-.0127	-.0240
92	UMA	3.911	CU	29	1.1273	-.1022	-.0052	-.0199
92	UMA	3.911	ZN	30	1.1435	-.1200	-.0039	-.0196
92	UMA	3.911	GA	31	1.1395	-.1244	.0021	-.0173
92	UMA	3.911	GE	32	1.1490	-.1376	.0050	-.0165
92	UMA	3.911	Y	39	1.2638	-.2644	.0149	-.0143
92	UMA	3.911	ZR	40	1.2788	-.2799	.0150	-.0140
92	UMA	3.911	NB	41	1.3022	-.3032	.0148	-.0139
92	UMA	3.911	MO	42	1.3172	-.3195	.0163	-.0140
92	UMA	3.911	PD	46	1.0344	-.0142	-.0151	-.0051
92	UMA	3.911	AG	47	1.0430	-.0228	-.0149	-.0052
92	UMA	3.911	CD	48	1.0373	-.0210	-.0122	-.0041
92	UMA	3.911	SN	50	1.0405	-.0277	-.0095	-.0032
92	UMA	3.911	SB	51	1.0430	-.0318	-.0083	-.0028
92	UMA	3.911	CS	55	1.0608	-.0543	-.0045	-.0020
92	UMA	3.911	BA	56	1.0597	-.0552	-.0029	-.0017
92	UMA	3.911	LA	57	1.0699	-.0655	-.0028	-.0016
92	UMA	3.911	CE	58	1.0817	-.0771	-.0030	-.0016
92	UMA	3.911	HF	72	1.1922	-.1877	-.0031	-.0013
92	UMA	3.911	TA	73	1.2029	-.1977	-.0037	-.0015
92	UMA	3.911	W	74	1.2125	-.2063	-.0044	-.0018
92	UMA	3.911	RE	75	1.2242	-.2170	-.0051	-.0020
92	UMA	3.911	PT	78	1.2146	-.2071	-.0056	-.0019
92	UMA	3.911	AU	79	1.2277	-.2193	-.0062	-.0023
92	UMA	3.911	PB	82	1.1995	-.1919	-.0055	-.0021
92	UMA	3.911	TH	90	.9957	.0044	-.0001	.0000

TABLE A2.- POLYNOMIAL COEFFICIENTS FOR 15 kV ACCELERATING POTENTIAL

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
5	BKA	67.395	C	6	1.5233	-.4919	-.0321	.0008
5	BKA	67.395	N	7	2.1043	-.9941	-.0729	-.0371
5	BKA	67.395	O	8	2.8395	-1.5893	-.1281	-.1215
5	BKA	67.395	F	9	3.7223	-2.2224	-.2357	-.2622
5	BKA	67.395	NA	11	6.3124	-4.1028	-.3796	-.8228
5	BKA	67.395	MG	12	8.0533	-5.3985	-.3293	-1.3134
5	BKA	67.395	AL	13	10.0122	-6.6660	-.4351	-1.8931
5	BKA	67.395	SI	14	12.3685	-8.4091	-.1825	-2.7502
5	BKA	67.395	P	15	17.7276	-11.9477	-.3576	-4.3795
5	BKA	67.395	S	16	9.7835	-6.3323	.1742	-2.5997
5	BKA	67.395	CL	17	7.6372	-4.6003	.0564	-2.0729
5	BKA	67.395	K	19	5.3113	-2.9458	.1337	-1.4844
5	BKA	67.395	CA	20	4.8564	-2.6560	.1883	-1.3744
5	BKA	67.395	SC	21	4.6451	-2.3283	.0280	-1.3308
5	BKA	67.395	TI	22	4.7583	-2.3311	.0306	-1.4422
5	BKA	67.395	V	23	5.0836	-2.4634	.0565	-1.6585
5	BKA	67.395	CR	24	5.6165	-2.8439	.2608	-2.0107
5	BKA	67.395	MN	25	6.2350	-3.1618	.3651	-2.4106
5	BKA	67.395	FE	26	6.9942	-3.7124	.6904	-2.9377
5	BKA	67.395	CO	27	7.7779	-4.1159	.8553	-3.4760
5	BKA	67.395	NI	28	8.6917	-4.8939	1.4348	-4.1818
5	BKA	67.395	CU	29	7.2948	-3.7955	.9963	-3.4543
5	BKA	67.395	ZN	30	7.8613	-4.1712	1.2847	-3.9272
5	BKA	67.395	GA	31	7.1500	-3.5804	1.0474	-3.5740
5	BKA	67.395	GE	32	6.8347	-3.3523	1.0304	-3.4709
5	BKA	67.395	Y	39	3.4340	-1.3480	.4054	-1.4748
5	BKA	67.395	ZR	40	3.6171	-1.4541	.5007	-1.6448
5	BKA	67.395	NB	41	3.7665	-1.5710	.6130	-1.8072
5	BKA	67.395	MO	42	3.9260	-1.6303	.6802	-1.9524
5	BKA	67.395	PD	46	4.4366	-1.8894	1.0050	-2.5197
5	BKA	67.395	AG	47	4.5738	-1.9974	1.1329	-2.6742
5	BKA	67.395	CD	48	4.6819	-1.9863	1.1524	-2.8105
5	BKA	67.395	SN	50	4.9387	-2.0778	1.3028	-3.1209
5	BKA	67.395	SB	51	5.0749	-2.1300	1.3874	-3.2865
5	BKA	67.395	CS	55	5.6754	-2.4047	1.8138	-4.0252
5	BKA	67.395	BA	56	5.8204	-2.4079	1.8621	-4.2119
5	BKA	67.395	LA	57	5.9944	-2.5349	2.0358	-4.4284
5	BKA	67.395	CE	58	6.1740	-2.6805	2.2306	-4.6529
5	BKA	67.395	HF	72	8.4991	-3.7860	4.2762	-7.8521
5	BKA	67.395	TA	73	8.6620	-3.8779	4.4487	-8.0903
5	BKA	67.395	W	74	8.8218	-3.9480	4.6007	-8.3267
5	BKA	67.395	RE	75	8.9872	-4.0474	4.7841	-8.5706
5	BKA	67.395	PT	78	9.4833	-4.2604	5.2599	-9.3129
5	BKA	67.395	AU	79	9.6649	-4.3934	5.4862	-9.5816
5	BKA	67.395	PB	82	10.2125	-4.5705	5.9568	-10.4042

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
5	BKA	67.395	TH	90	12.1705	-5.4040	7.7962	-13.3025
5	BKA	67.395	U	92	12.8020	-5.5777	8.1942	-14.1346
6	CKA	44.519	B	5	5.1159	-4.3411	.4642	-.2355
6	CKA	44.519	N	7	1.1878	-.1684	-.0262	.0070
6	CKA	44.519	O	8	1.4324	-.3830	-.0432	-.0062
6	CKA	44.519	F	9	1.7076	-.5827	-.0958	-.0292
6	CKA	44.519	NA	11	2.5549	-1.2017	-.1964	-.1558
6	CKA	44.519	MG	12	3.1287	-1.6322	-.2123	-.2823
6	CKA	44.519	AL	13	3.7471	-2.0243	-.2817	-.4376
6	CKA	44.519	SI	14	4.5149	-2.5936	-.2449	-.6706
6	CKA	44.519	P	15	5.3168	-3.0644	-.3250	-.9188
6	CKA	44.519	S	16	6.2828	-3.7661	-.2245	-1.2796
6	CKA	44.519	CL	17	7.2671	-4.2682	-.3614	-1.6208
6	CKA	44.519	K	19	2.3664	-.9123	-.1361	-.3159
6	CKA	44.519	CA	20	2.2246	-.8349	-.1031	-.2844
6	CKA	44.519	SC	21	2.1319	-.6980	-.1595	-.2725
6	CKA	44.519	TI	22	2.1709	-.6937	-.1747	-.3002
6	CKA	44.519	V	23	2.2837	-.7305	-.1937	-.3567
6	CKA	44.519	CR	24	2.4635	-.8675	-.1613	-.4507
6	CKA	44.519	MN	25	2.6977	-.9621	-.1704	-.5602
6	CKA	44.519	FE	26	2.9750	-1.1510	-.1111	-.7060
6	CKA	44.519	CO	27	3.2424	-1.2651	-.1124	-.8560
6	CKA	44.519	NI	28	3.5792	-1.5321	.0167	-1.0523
6	CKA	44.519	CU	29	3.8481	-1.5716	-.0489	-1.2139
6	CKA	44.519	ZN	30	4.1737	-1.7493	.0079	-1.4154
6	CKA	44.519	GA	31	4.4671	-1.7885	-.0719	-1.5865
6	CKA	44.519	GE	32	4.7898	-1.9021	-.0752	-1.7889
6	CKA	44.519	Y	39	4.5157	-1.5955	-.0012	-1.8912
6	CKA	44.519	ZR	40	1.9434	-.3233	-.3351	-.2806
6	CKA	44.519	NB	41	2.0183	-.3625	-.3231	-.3277
6	CKA	44.519	MO	42	2.0760	-.3726	-.3278	-.3701
6	CKA	44.519	PD	46	2.2917	-.4347	-.3012	-.5482
6	CKA	44.519	AG	47	2.3532	-.4733	-.2718	-.5998
6	CKA	44.519	CD	48	2.3927	-.4491	-.2924	-.6423
6	CKA	44.519	SN	50	2.4974	-.4602	-.2812	-.7456
6	CKA	44.519	SB	51	2.5532	-.4694	-.2696	-.8030
6	CKA	44.519	CS	55	2.6019	-.5328	-.1937	-1.0605
6	CKA	44.519	BA	56	2.8569	-.5137	-.2042	-1.1230
6	CKA	44.519	LA	57	2.9321	-.5582	-.1541	-1.2027
6	CKA	44.519	CE	58	3.0106	-.6124	-.0927	-1.2873
6	CKA	44.519	HF	72	3.9612	-.8929	.4519	-2.4813
6	CKA	44.519	TA	73	4.0282	-.9201	.5055	-2.5732
6	CKA	44.519	W	74	4.0927	-.9359	.5481	-2.6627
6	CKA	44.519	RE	75	4.1609	-.9662	.6064	-2.7570
6	CKA	44.519	PT	78	4.3601	-1.0124	.7392	-3.0373

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
6	CKA	44.519	AU	79	4.4359	-1.0580	.8166	-3.1430
6	CKA	44.519	PB	82	4.6512	-1.0791	.9344	-3.4486
6	CKA	44.519	TH	90	5.4248	-1.2670	1.4622	-4.5393
6	CKA	44.519	U	92	5.6795	-1.3385	1.6474	-4.9001
7	NKA	31.633	B	5	2.5975	-1.7589	.2909	-.1287
7	NKA	31.633	C	6	3.7809	-2.9050	.3101	-.1838
7	NKA	31.633	O	8	1.1026	-.0839	-.0310	.0124
7	NKA	31.633	F	9	1.2146	-.1813	-.0349	.0016
7	NKA	31.633	NA	11	1.6013	-.4875	-.0844	-.0293
7	NKA	31.633	MG	12	1.8696	-.6990	-.1048	-.0656
7	NKA	31.633	AL	13	2.1403	-.8755	-.1471	-.1172
7	NKA	31.633	SI	14	2.4950	-1.1481	-.1470	-.1987
7	NKA	31.633	P	15	2.8411	-1.3564	-.1880	-.2946
7	NKA	31.633	S	16	3.2798	-1.6864	-.1573	-.4327
7	NKA	31.633	CL	17	3.6965	-1.9052	-.2132	-.5730
7	NKA	31.633	K	19	4.7466	-2.6042	-.1504	-.9822
7	NKA	31.633	CA	20	5.4441	-3.1200	-.0283	-1.2823
7	NKA	31.633	SC	21	1.4502	-.2898	-.1013	-.0587
7	NKA	31.633	TI	22	1.4642	-.2783	-.1226	-.0629
7	NKA	31.633	V	23	1.5174	-.2964	-.1402	-.0802
7	NKA	31.633	CR	24	1.6231	-.3745	-.1376	-.1103
7	NKA	31.633	MN	25	1.7265	-.4215	-.1569	-.1470
7	NKA	31.633	FE	26	1.8706	-.5251	-.1458	-.1981
7	NKA	31.633	CO	27	1.9982	-.5803	-.1624	-.2534
7	NKA	31.633	NI	28	2.1768	-.7280	-.1179	-.3280
7	NKA	31.633	CU	29	2.2948	-.7384	-.1592	-.3936
7	NKA	31.633	ZN	30	2.4561	-.8339	-.1404	-.4773
7	NKA	31.633	GA	31	2.5886	-.8543	-.1738	-.5551
7	NKA	31.633	GE	32	2.7426	-.9174	-.1733	-.6453
7	NKA	31.633	Y	39	3.3128	-1.1389	-.0943	-1.0662
7	NKA	31.633	ZR	40	2.7698	-.8349	-.1780	-.7475
7	NKA	31.633	NB	41	2.9096	-.9084	-.1505	-.8397
7	NKA	31.633	MO	42	3.0401	-.9453	-.1523	-.9300
7	NKA	31.633	PD	46	1.6417	-.1694	-.3626	-.1069
7	NKA	31.633	AG	47	1.6785	-.1843	-.3734	-.1176
7	NKA	31.633	CD	48	1.6964	-.1570	-.4110	-.1248
7	NKA	31.633	SN	50	1.7524	-.1404	-.4612	-.1466
7	NKA	31.633	SB	51	1.7827	-.1351	-.4819	-.1611
7	NKA	31.633	CS	55	1.9202	-.1331	-.5417	-.2393
7	NKA	31.633	BA	56	1.9476	-.1107	-.5710	-.2593
7	NKA	31.633	LA	57	1.9915	-.1286	-.5684	-.2874
7	NKA	31.633	CE	58	2.0379	-.1525	-.5595	-.3183
7	NKA	31.633	HF	72	2.5625	-.2000	-.5367	-.8102
7	NKA	31.633	TA	73	2.5999	-.2088	-.5233	-.8516
7	NKA	31.633	W	74	2.6350	-.2106	-.5161	-.8915

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
7	NKA	31.633	RE	75	2.6732	-.2215	-.4998	-.9345
7	NKA	31.633	PT	78	2.7816	-.2263	-.4740	-1.0615
7	NKA	31.633	AU	79	2.8246	-.2467	-.4458	-1.1115
7	NKA	31.633	PB	82	2.9392	-.2359	-.4277	-1.2523
7	NKA	31.633	TH	90	3.3539	-.2786	-.2714	-1.7707
7	NKA	31.633	U	92	3.4896	-.2993	-.2114	-1.9424
8	OKA	23.631	B	5	1.6879	-.7835	.1555	-.0599
8	OKA	23.631	C	6	2.2728	-1.3664	.1805	-.0865
8	OKA	23.631	N	7	2.9460	-1.9893	.1839	-.1393
8	OKA	23.631	F	9	1.0342	-.0098	-.0419	.0177
8	OKA	23.631	NA	11	1.2352	-.1973	-.0358	-.0021
8	OKA	23.631	MG	12	1.3809	-.3223	-.0466	-.0120
8	OKA	23.631	AL	13	1.5153	-.4148	-.0737	-.0267
8	OKA	23.631	SI	14	1.7075	-.5700	-.0848	-.0526
8	OKA	23.631	P	15	1.8787	-.6741	-.1174	-.0867
8	OKA	23.631	S	16	2.1130	-.8560	-.1173	-.1390
8	OKA	23.631	CL	17	2.3146	-.9598	-.1559	-.1977
8	OKA	23.631	K	19	2.8532	-1.3273	-.1473	-.3757
8	OKA	23.631	CA	20	3.1739	-1.5722	-.0994	-.4981
8	OKA	23.631	SC	21	3.4257	-1.6366	-.1831	-.6006
8	OKA	23.631	TI	22	3.6505	-1.7392	-.2000	-.7045
8	OKA	23.631	V	23	3.9127	-1.8580	-.2211	-.8252
8	OKA	23.631	CR	24	1.2582	-.1467	-.0934	-.0178
8	OKA	23.631	MN	25	1.3140	-.1759	-.1072	-.0306
8	OKA	23.631	FE	26	1.4001	-.2442	-.1071	-.0485
8	OKA	23.631	CO	27	1.4691	-.2759	-.1252	-.0675
8	OKA	23.631	NI	28	1.5788	-.3720	-.1112	-.0949
8	OKA	23.631	CU	29	1.6358	-.3701	-.1465	-.1184
8	OKA	23.631	ZN	30	1.7281	-.4271	-.1493	-.1504
8	OKA	23.631	GA	31	1.7952	-.4323	-.1809	-.1805
8	OKA	23.631	GE	32	1.8794	-.4668	-.1938	-.2170
8	OKA	23.631	Y	39	2.5477	-.7905	-.1717	-.5793
8	OKA	23.631	ZR	40	2.6518	-.8396	-.1590	-.6461
8	OKA	23.631	NB	41	2.7655	-.9061	-.1310	-.7201
8	OKA	23.631	MO	42	2.5107	-.7430	-.1792	-.5818
8	OKA	23.631	PD	46	2.3921	-.6251	-.2244	-.5360
8	OKA	23.631	AG	47	2.4911	-.6816	-.2024	-.5995
8	OKA	23.631	CD	48	2.5676	-.6748	-.2290	-.6554
8	OKA	23.631	SN	50	1.3955	-.0672	-.2939	-.0331
8	OKA	23.631	SB	51	1.4145	-.0646	-.3110	-.0375
8	OKA	23.631	CS	55	1.5022	-.0632	-.3763	-.0605
8	OKA	23.631	BA	56	1.5173	-.0447	-.4057	-.0646
8	OKA	23.631	LA	57	1.5467	-.0557	-.4152	-.0732
8	OKA	23.631	CE	58	1.5779	-.0701	-.4226	-.0824
8	OKA	23.631	HF	72	1.8994	.0162	-.7234	-.1846

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
8	OKA	23.631	TA	73	1.9226	.0185	-.7361	-.1971
8	OKA	23.631	W	74	1.9440	.0254	-.7517	-.2093
8	OKA	23.631	RE	75	1.9679	.0261	-.7618	-.2235
8	OKA	23.631	PT	78	2.0331	.0479	-.8047	-.2665
8	OKA	23.631	AU	79	2.0605	.0422	-.8072	-.2853
8	OKA	23.631	PB	82	2.1286	.0735	-.8532	-.3373
8	OKA	23.631	TH	90	2.3796	.1117	-.9163	-.5586
8	OKA	23.631	U	92	2.4617	.1154	-.9203	-.6388
9	FKA	18.316	B	5	1.3428	-.4026	.0869	-.0271
9	FKA	18.316	C	6	1.6750	-.7417	.0989	-.0321
9	FKA	18.316	N	7	2.0392	-1.0913	.1041	-.0518
9	FKA	18.316	O	8	2.4767	-1.4894	.1003	-.0869
9	FKA	18.316	NA	11	1.1019	-.0817	-.0307	.0107
9	FKA	18.316	MG	12	1.1923	-.1732	-.0211	.0021
9	FKA	18.316	AL	13	1.2648	-.2334	-.0271	-.0043
9	FKA	18.316	SI	14	1.3832	-.3390	-.0319	-.0123
9	FKA	18.316	P	15	1.4763	-.4025	-.0502	-.0236
9	FKA	18.316	S	16	1.6194	-.5225	-.0554	-.0414
9	FKA	18.316	CL	17	1.7275	-.5821	-.0809	-.0642
9	FKA	18.316	K	19	2.0435	-.8126	-.0921	-.1380
9	FKA	18.316	CA	20	2.2366	-.9675	-.0764	-.1915
9	FKA	18.316	SC	21	2.3634	-.9969	-.1210	-.2438
9	FKA	18.316	TI	22	2.5409	-1.0960	-.1322	-.3104
9	FKA	18.316	V	23	2.7284	-1.1964	-.1432	-.3858
9	FKA	18.316	CR	24	2.8244	-1.2784	-.1055	-.4370
9	FKA	18.316	MN	25	2.9907	-1.3639	-.1070	-.5154
9	FKA	18.316	FE	26	1.1981	-.1283	-.0673	-.0024
9	FKA	18.316	CO	27	1.2386	-.1545	-.0717	-.0122
9	FKA	18.316	NI	28	1.3145	-.2291	-.0612	-.0240
9	FKA	18.316	CU	29	1.3427	-.2278	-.0809	-.0337
9	FKA	18.316	ZN	30	1.4017	-.2709	-.0841	-.0463
9	FKA	18.316	GA	31	1.4382	-.2743	-.1058	-.0577
9	FKA	18.316	GE	32	1.4896	-.2995	-.1176	-.0720
9	FKA	18.316	Y	39	1.9085	-.5299	-.1478	-.2287
9	FKA	18.316	ZR	40	1.9737	-.5643	-.1470	-.2599
9	FKA	18.316	NB	41	2.0463	-.6109	-.1372	-.2953
9	FKA	18.316	MO	42	2.1090	-.6337	-.1419	-.3301
9	FKA	18.316	PD	46	2.1641	-.6265	-.1570	-.3746
9	FKA	18.316	AG	47	2.2476	-.6821	-.1390	-.4218
9	FKA	18.316	CD	48	1.9266	-.4666	-.1975	-.2596
9	FKA	18.316	SN	50	2.0409	-.5004	-.2127	-.3240
9	FKA	18.316	SB	51	2.1017	-.5191	-.2181	-.3601
9	FKA	18.316	CS	55	1.2949	-.0590	-.2300	-.0051
9	FKA	18.316	BA	56	1.3035	-.0467	-.2501	-.0059
9	FKA	18.316	LA	57	1.3250	-.0588	-.2554	-.0099

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
9	FKA	18.316	CE	58	1.3483	-.0739	-.2588	-.0147
9	FKA	18.316	HF	72	1.5771	-.0705	-.4366	-.0670
9	FKA	18.316	TA	73	1.5937	-.0702	-.4494	-.0710
9	FKA	18.316	W	74	1.6085	-.0656	-.4653	-.0743
9	FKA	18.316	RE	75	1.6255	-.0654	-.4784	-.0782
9	FKA	18.316	PT	78	1.6704	-.0465	-.5334	-.0863
9	FKA	18.316	AU	79	1.6899	-.0484	-.5469	-.0902
9	FKA	18.316	PB	82	1.7334	-.0062	-.6337	-.0881
9	FKA	18.316	TH	90	1.9001	.0677	-.8225	-.1368
9	FKA	18.316	U	92	1.9548	.0835	-.8667	-.1621
11	NAKA	11.909	B	5	1.0782	-.0978	.0288	-.0093
11	NAKA	11.909	C	6	1.2092	-.2357	.0366	-.0101
11	NAKA	11.909	N	7	1.3291	-.3590	.0418	-.0118
11	NAKA	11.909	O	8	1.4769	-.5014	.0398	-.0152
11	NAKA	11.909	F	9	1.6133	-.6185	.0328	-.0276
11	NAKA	11.909	MG	12	1.0145	.0444	-.1103	.0518
11	NAKA	11.909	AL	13	1.0393	-.0090	-.0523	.0222
11	NAKA	11.909	SI	14	1.0952	-.0776	-.0267	.0091
11	NAKA	11.909	P	15	1.1225	-.1065	-.0182	.0022
11	NAKA	11.909	S	16	1.1853	-.1686	-.0151	-.0016
11	NAKA	11.909	CL	17	1.2141	-.1858	-.0237	-.0047
11	NAKA	11.909	K	19	1.3383	-.2876	-.0362	-.0145
11	NAKA	11.909	CA	20	1.4208	-.3600	-.0382	-.0225
11	NAKA	11.909	SC	21	1.4487	-.3526	-.0655	-.0305
11	NAKA	11.909	TI	22	1.5115	-.3875	-.0817	-.0422
11	NAKA	11.909	V	23	1.5780	-.4220	-.0993	-.0564
11	NAKA	11.909	CR	24	1.6757	-.5004	-.0980	-.0769
11	NAKA	11.909	MN	25	1.7520	-.5404	-.1129	-.0982
11	NAKA	11.909	FE	26	1.8600	-.6278	-.1046	-.1270
11	NAKA	11.909	CO	27	1.9424	-.6679	-.1178	-.1558
11	NAKA	11.909	NI	28	2.0742	-.7887	-.0881	-.1962
11	NAKA	11.909	CU	29	2.0018	-.6955	-.1195	-.1857
11	NAKA	11.909	ZN	30	1.0918	-.0586	-.0309	-.0023
11	NAKA	11.909	GA	31	1.0836	-.0183	-.0744	.0092
11	NAKA	11.909	GE	32	1.1044	-.0354	-.0723	.0035
11	NAKA	11.909	Y	39	1.2865	-.1627	-.0985	-.0251
11	NAKA	11.909	ZR	40	1.3149	-.1794	-.1049	-.0302
11	NAKA	11.909	NB	41	1.3483	-.2034	-.1079	-.0366
11	NAKA	11.909	MO	42	1.3736	-.2122	-.1186	-.0422
11	NAKA	11.909	PD	46	1.4966	-.2687	-.1522	-.0749
11	NAKA	11.909	AG	47	1.5376	-.2971	-.1525	-.0871
11	NAKA	11.909	CD	48	1.5604	-.2896	-.1735	-.0962
11	NAKA	11.909	SN	50	1.6275	-.3080	-.1965	-.1216
11	NAKA	11.909	SB	51	1.6635	-.3186	-.2070	-.1363
11	NAKA	11.909	CS	55	1.5692	-.2393	-.2259	-.1027

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
11	NAKA	11.909	BA	56	1.5022	-.1850	-.2368	-.0792
11	NAKA	11.909	LA	57	1.5400	-.2073	-.2392	-.0921
11	NAKA	11.909	CE	58	1.5804	-.2338	-.2385	-.1066
11	NAKA	11.909	HF	72	1.1818	.0446	-.2534	.0276
11	NAKA	11.909	TA	73	1.1904	.0433	-.2606	.0275
11	NAKA	11.909	W	74	1.1977	.0447	-.2696	.0279
11	NAKA	11.909	RE	75	1.2068	.0428	-.2766	.0278
11	NAKA	11.909	PT	78	1.2293	.0483	-.3055	.0289
11	NAKA	11.909	AU	79	1.2405	.0435	-.3109	.0279
11	NAKA	11.909	PB	82	1.2622	.0566	-.3472	.0296
11	NAKA	11.909	TH	90	1.3491	.0745	-.4452	.0234
11	NAKA	11.909	U	92	1.3779	.0778	-.4723	.0186
12	MGKA	9.892	B	5	1.0231	-.0343	.0168	-.0056
12	MGKA	9.892	C	6	1.1143	-.1302	.0229	-.0070
12	MGKA	9.892	N	7	1.1852	-.2057	.0286	-.0081
12	MGKA	9.892	O	8	1.2747	-.2947	.0293	-.0093
12	MGKA	9.892	F	9	1.3481	-.3586	.0247	-.0142
12	MGKA	9.892	NA	11	1.6059	-.5792	.0013	-.0279
12	MGKA	9.892	AL	13	.9750	.0967	-.1334	.0622
12	MGKA	9.892	SI	14	1.0209	.0191	-.0705	.0308
12	MGKA	9.892	P	15	1.0372	-.0146	-.0351	.0126
12	MGKA	9.892	S	16	1.0838	-.0689	-.0197	.0048
12	MGKA	9.892	CL	17	1.0967	-.0792	-.0184	.0009
12	MGKA	9.892	K	19	1.1789	-.1519	-.0232	-.0038
12	MGKA	9.892	CA	20	1.2365	-.2048	-.0248	-.0069
12	MGKA	9.892	SC	21	1.2437	-.1896	-.0449	-.0092
12	MGKA	9.892	TI	22	1.2817	-.2102	-.0582	-.0133
12	MGKA	9.892	V	23	1.3222	-.2302	-.0734	-.0185
12	MGKA	9.892	CR	24	1.3895	-.2862	-.0759	-.0272
12	MGKA	9.892	MN	25	1.4372	-.3101	-.0912	-.0357
12	MGKA	9.892	FE	26	1.5118	-.3721	-.0909	-.0466
12	MGKA	9.892	CO	27	1.5634	-.3953	-.1068	-.0611
12	MGKA	9.892	NI	28	1.6571	-.4827	-.0937	-.0804
12	MGKA	9.892	CU	29	1.6932	-.4737	-.1240	-.0950
12	MGKA	9.892	ZN	30	1.7674	-.5238	-.1262	-.1167
12	MGKA	9.892	GA	31	1.7032	-.4525	-.1446	-.1054
12	MGKA	9.892	GE	32	1.7597	-.4778	-.1566	-.1245
12	MGKA	9.892	Y	39	1.1301	-.0446	-.0825	-.0029
12	MGKA	9.892	ZR	40	1.1497	-.0574	-.0873	-.0049
12	MGKA	9.892	NB	41	1.1735	-.0759	-.0900	-.0075
12	MGKA	9.892	MO	42	1.1898	-.0814	-.0991	-.0091
12	MGKA	9.892	PD	46	1.2725	-.1194	-.1322	-.0206
12	MGKA	9.892	AG	47	1.3016	-.1404	-.1351	-.0258
12	MGKA	9.892	CD	48	1.3146	-.1316	-.1543	-.0283
12	MGKA	9.892	SN	50	1.3588	-.1415	-.1790	-.0377

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
12	MGKA	9.892	SB	51	1.3628	-.1475	-.1911	-.0435
12	MGKA	9.892	CS	55	1.4932	-.1833	-.2333	-.0756
12	MGKA	9.892	BA	56	1.4282	-.1318	-.2403	-.0552
12	MGKA	9.892	LA	57	1.4620	-.1518	-.2438	-.0654
12	MGKA	9.892	CE	58	1.3942	-.1214	-.2277	-.0443
12	MGKA	9.892	HF	72	1.0653	.1116	-.2150	.0384
12	MGKA	9.892	TA	73	1.0715	.1108	-.2210	.0391
12	MGKA	9.892	W	74	1.0765	.1123	-.2285	.0401
12	MGKA	9.892	RE	75	1.0830	.1109	-.2343	.0407
12	MGKA	9.892	PT	78	1.0984	.1165	-.2565	.0441
12	MGKA	9.892	AU	79	1.1068	.1125	-.2629	.0442
12	MGKA	9.892	PB	82	1.1211	.1245	-.2935	.0466
12	MGKA	9.892	TH	90	1.1824	.1412	-.3773	.0548
12	MGKA	9.892	U	92	1.2030	.1442	-.4007	.0547
13	ALKA	8.343	B	5	1.0174	-.0219	.0075	-.0030
13	ALKA	8.343	C	6	1.0875	-.0948	.0116	-.0044
13	ALKA	8.343	N	7	1.1312	-.1438	.0177	-.0051
13	ALKA	8.343	O	8	1.1877	-.2030	.0206	-.0056
13	ALKA	8.343	F	9	1.2249	-.2385	.0213	-.0078
13	ALKA	8.343	NA	11	1.3961	-.3918	.0071	-.0113
13	ALKA	8.343	MG	12	1.5230	-.5055	-.0015	-.0159
13	ALKA	8.343	SI	14	.9884	.1076	-.1782	.0830
13	ALKA	8.343	P	15	1.0029	.0474	-.0891	.0391
13	ALKA	8.343	S	16	1.0434	-.0157	-.0461	.0166
13	ALKA	8.343	CL	17	1.0491	-.0323	-.0240	.0073
13	ALKA	8.343	K	19	1.1091	-.0964	-.0128	.0000
13	ALKA	8.343	CA	20	1.1528	-.1396	-.0115	-.0017
13	ALKA	8.343	SC	21	1.1477	-.1221	-.0227	-.0028
13	ALKA	8.343	TI	22	1.1711	-.1359	-.0307	-.0045
13	ALKA	8.343	V	23	1.1961	-.1492	-.0404	-.0065
13	ALKA	8.343	CR	24	1.2456	-.1932	-.0420	-.0103
13	ALKA	8.343	MN	25	1.2763	-.2097	-.0527	-.0138
13	ALKA	8.343	FE	26	1.3313	-.2583	-.0532	-.0197
13	ALKA	8.343	CO	27	1.3646	-.2742	-.0653	-.0250
13	ALKA	8.343	NI	28	1.4359	-.3435	-.0581	-.0342
13	ALKA	8.343	CU	29	1.4544	-.3325	-.0814	-.0404
13	ALKA	8.343	ZN	30	1.5071	-.3704	-.0858	-.0507
13	ALKA	8.343	GA	31	1.5361	-.3684	-.1078	-.0595
13	ALKA	8.343	GE	32	1.5821	-.3907	-.1194	-.0715
13	ALKA	8.343	Y	39	1.0540	.0040	-.0628	.0049
13	ALKA	8.343	ZR	40	1.0688	-.0091	-.0624	.0028
13	ALKA	8.343	NB	41	1.0872	-.0264	-.0616	.0009
13	ALKA	8.343	MO	42	1.0985	-.0320	-.0663	-.0001
13	ALKA	8.343	PD	46	1.1573	-.0651	-.0876	-.0045
13	ALKA	8.343	AG	47	1.1793	-.0827	-.0895	-.0069

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
13	ALKA	8.343	CD	48	1.1862	-.0748	-.1042	-.0070
13	ALKA	8.343	SN	50	1.2163	-.0823	-.1236	-.0102
13	ALKA	8.343	SB	51	1.2329	-.0870	-.1333	-.0123
13	ALKA	8.343	CS	55	1.3110	-.1154	-.1696	-.0255
13	ALKA	8.343	BA	56	1.3246	-.1089	-.1871	-.0280
13	ALKA	8.343	LA	57	1.3519	-.1266	-.1904	-.0343
13	ALKA	8.343	CE	58	1.3814	-.1475	-.1918	-.0415
13	ALKA	8.343	HF	72	1.0119	.1153	-.1601	.0332
13	ALKA	8.343	TA	73	1.0164	.1145	-.1646	.0340
13	ALKA	8.343	W	74	1.0197	.1158	-.1702	.0350
13	ALKA	8.343	RE	75	1.0246	.1144	-.1745	.0357
13	ALKA	8.343	PT	78	1.0351	.1190	-.1930	.0391
13	ALKA	8.343	AU	79	1.0417	.1153	-.1961	.0394
13	ALKA	8.343	PB	82	1.0509	.1254	-.2199	.0440
13	ALKA	8.343	TH	90	1.0946	.1377	-.2848	.0531
13	ALKA	8.343	U	92	1.1097	.1394	-.3031	.0546
14	SIKA	7.129	B	5	.9934	.0042	.0039	-.0015
14	SIKA	7.129	C	6	1.0494	-.0531	.0068	-.0031
14	SIKA	7.129	N	7	1.0754	-.0835	.0120	-.0039
14	SIKA	7.129	O	8	1.1103	-.1212	.0154	-.0046
14	SIKA	7.129	F	9	1.1241	-.1353	.0170	-.0058
14	SIKA	7.129	NA	11	1.2366	-.2382	.0080	-.0064
14	SIKA	7.129	MG	12	1.3252	-.3194	.0019	-.0077
14	SIKA	7.129	AL	13	1.3806	-.3602	-.0090	-.0114
14	SIKA	7.129	P	15	.9483	.1575	-.1951	.0901
14	SIKA	7.129	S	16	.9871	.0749	-.1098	.0483
14	SIKA	7.129	CL	17	.9912	.0424	-.0552	.0218
14	SIKA	7.129	K	19	1.0389	-.0250	-.0181	.0041
14	SIKA	7.129	CA	20	1.0735	-.0626	-.0124	.0016
14	SIKA	7.129	SC	21	1.0613	-.0434	-.0184	.0005
14	SIKA	7.129	TI	22	1.0750	-.0513	-.0233	-.0004
14	SIKA	7.129	V	23	1.0896	-.0583	-.0304	-.0010
14	SIKA	7.129	CR	24	1.1264	-.0922	-.0315	-.0027
14	SIKA	7.129	MN	25	1.1452	-.1014	-.0399	-.0039
14	SIKA	7.129	FE	26	1.1859	-.1387	-.0406	-.0066
14	SIKA	7.129	CO	27	1.2065	-.1472	-.0509	-.0084
14	SIKA	7.129	NI	28	1.2611	-.2019	-.0462	-.0130
14	SIKA	7.129	CU	29	1.2677	-.1872	-.0657	-.0147
14	SIKA	7.129	ZN	30	1.3048	-.2145	-.0710	-.0192
14	SIKA	7.129	GA	31	1.3205	-.2079	-.0904	-.0222
14	SIKA	7.129	GE	32	1.3513	-.2219	-.1021	-.0273
14	SIKA	7.129	Y	39	.9753	.0860	-.0800	.0168
14	SIKA	7.129	ZR	40	.9873	.0731	-.0730	.0126
14	SIKA	7.129	NB	41	1.0024	.0554	-.0672	.0095
14	SIKA	7.129	MO	42	1.0106	.0489	-.0671	.0078

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
14	SIKA	7.129	PD	46	1.0535	.0196	-.0781	.0051
14	SIKA	7.129	AG	47	1.0703	.0051	-.0794	.0041
14	SIKA	7.129	CD	48	1.0731	.0133	-.0915	.0052
14	SIKA	7.129	SN	50	1.0932	.0096	-.1079	.0053
14	SIKA	7.129	SB	51	1.1044	.0070	-.1163	.0050
14	SIKA	7.129	CS	55	1.1586	-.0109	-.1491	.0017
14	SIKA	7.129	BA	56	1.1666	-.0037	-.1645	.0019
14	SIKA	7.129	LA	57	1.1867	-.0171	-.1685	-.0008
14	SIKA	7.129	CE	58	1.2088	-.0333	-.1711	-.0041
14	SIKA	7.129	HF	72	1.0316	.1146	-.1762	.0302
14	SIKA	7.129	TA	73	1.0395	.1121	-.1819	.0306
14	SIKA	7.129	W	74	.9568	.1635	-.1563	.0362
14	SIKA	7.129	RE	75	.9604	.1627	-.1599	.0370
14	SIKA	7.129	PT	78	.9670	.1683	-.1759	.0407
14	SIKA	7.129	AU	79	.9721	.1654	-.1785	.0412
14	SIKA	7.129	PB	82	.9773	.1760	-.1991	.0461
14	SIKA	7.129	TH	90	1.0070	.1909	-.2549	.0574
14	SIKA	7.129	U	92	1.0176	.1935	-.2705	.0600
15	PKA	6.160	B	5	1.0061	-.0048	-.0008	-.0005
15	PKA	6.160	C	6	1.0549	-.0534	.0006	-.0020
15	PKA	6.160	N	7	1.0706	-.0734	.0057	-.0029
15	PKA	6.160	O	8	1.0926	-.0988	.0095	-.0034
15	PKA	6.160	F	9	1.0917	-.1009	.0133	-.0042
15	PKA	6.160	NA	11	1.1690	-.1749	.0094	-.0035
15	PKA	6.160	MG	12	1.2347	-.2374	.0061	-.0034
15	PKA	6.160	AL	13	1.2695	-.2648	.0001	-.0048
15	PKA	6.160	SI	14	1.3427	-.3320	-.0050	-.0057
15	PKA	6.160	S	16	.9598	.1786	-.2545	.1172
15	PKA	6.160	CL	17	.9685	.1079	-.1354	.0595
15	PKA	6.160	K	19	1.0159	.0085	-.0387	.0144
15	PKA	6.160	CA	20	1.0474	-.0335	-.0207	.0069
15	PKA	6.160	SC	21	1.0319	-.0196	-.0149	.0026
15	PKA	6.160	TI	22	1.0405	-.0274	-.0140	.0008
15	PKA	6.160	V	23	1.0493	-.0326	-.0168	.0001
15	PKA	6.160	CR	24	1.0788	-.0616	-.0163	-.0009
15	PKA	6.160	MN	25	1.0904	-.0676	-.0214	-.0014
15	PKA	6.160	FE	26	1.1227	-.0987	-.0213	-.0027
15	PKA	6.160	CO	27	1.1352	-.1038	-.0279	-.0035
15	PKA	6.160	NI	28	1.1800	-.1501	-.0240	-.0058
15	PKA	6.160	CU	29	1.1786	-.1346	-.0376	-.0063
15	PKA	6.160	ZN	30	1.2061	-.1565	-.0411	-.0085
15	PKA	6.160	GA	31	1.2132	-.1487	-.0549	-.0095
15	PKA	6.160	GE	32	1.2343	-.1591	-.0635	-.0117
15	PKA	6.160	Y	39	.9822	.0439	-.0297	.0036
15	PKA	6.160	ZR	40	.9880	.0403	-.0320	.0037

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
15	PKA	6.160	NB	41	.9637	.0980	-.0832	.0216
15	PKA	6.160	MO	42	.9714	.0853	-.0725	.0160
15	PKA	6.160	PD	46	1.0082	.0438	-.0585	.0066
15	PKA	6.160	AG	47	1.0225	.0290	-.0569	.0054
15	PKA	6.160	CD	48	1.0232	.0351	-.0644	.0061
15	PKA	6.160	SN	50	1.0377	.0305	-.0747	.0065
15	PKA	6.160	SB	51	1.0458	.0281	-.0806	.0068
15	PKA	6.160	CS	55	1.0854	.0124	-.1043	.0067
15	PKA	6.160	BA	56	1.0897	.0190	-.1163	.0076
15	PKA	6.160	LA	57	1.1055	.0074	-.1190	.0064
15	PKA	6.160	CE	58	1.1229	-.0067	-.1206	.0046
15	PKA	6.160	HF	72	1.1514	.0199	-.1821	.0112
15	PKA	6.160	TA	73	1.1632	.0152	-.1883	.0103
15	PKA	6.160	W	74	1.1739	.0130	-.1961	.0097
15	PKA	6.160	RE	75	1.1865	.0076	-.2020	.0084
15	PKA	6.160	PT	78	.9456	.1581	-.1364	.0327
15	PKA	6.160	AU	79	.9498	.1554	-.1381	.0331
15	PKA	6.160	PB	82	.9521	.1654	-.1546	.0373
15	PKA	6.160	TH	90	.9720	.1793	-.1982	.0472
15	PKA	6.160	U	92	.9795	.1816	-.2103	.0496
16	SKA	5.374	B	5	.9926	.0087	-.0017	.0004
16	SKA	5.374	C	6	1.0356	-.0335	-.0010	-.0011
16	SKA	5.374	N	7	1.0443	-.0457	.0036	-.0021
16	SKA	5.374	O	8	1.0575	-.0617	.0070	-.0028
16	SKA	5.374	F	9	1.0469	-.0542	.0107	-.0035
16	SKA	5.374	NA	11	1.0989	-.1047	.0087	-.0030
16	SKA	5.374	MG	12	1.1478	-.1517	.0066	-.0026
16	SKA	5.374	AL	13	1.1676	-.1671	.0024	-.0030
16	SKA	5.374	SI	14	1.2231	-.2192	-.0010	-.0029
16	SKA	5.374	P	15	1.2499	-.2371	-.0083	-.0045
16	SKA	5.374	CL	17	.9178	.2280	-.2664	.1216
16	SKA	5.374	K	19	.9698	.0822	-.0878	.0361
16	SKA	5.374	CA	20	1.0005	.0296	-.0487	.0187
16	SKA	5.374	SC	21	.9855	.0332	-.0264	.0078
16	SKA	5.374	TI	22	.9918	.0228	-.0180	.0034
16	SKA	5.374	V	23	.9972	.0176	-.0165	.0017
16	SKA	5.374	CR	24	1.0217	-.0078	-.0145	.0007
16	SKA	5.374	MN	25	1.0285	-.0110	-.0178	.0004
16	SKA	5.374	FE	26	1.0544	-.0368	-.0173	-.0004
16	SKA	5.374	CO	27	1.0612	-.0382	-.0225	-.0005
16	SKA	5.374	NI	28	1.0981	-.0770	-.0193	-.0019
16	SKA	5.374	CU	29	1.0913	-.0594	-.0304	-.0014
16	SKA	5.374	ZN	30	1.1114	-.0757	-.0333	-.0024
16	SKA	5.374	GA	31	1.1123	-.0653	-.0447	-.0022
16	SKA	5.374	GE	32	1.1261	-.0712	-.0521	-.0027

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
16	SKA	5.374	Y	39	1.2209	-.1252	-.0852	-.0105
16	SKA	5.374	ZR	40	1.2363	-.1337	-.0902	-.0124
16	SKA	5.374	NB	41	.9590	.0689	-.0327	.0048
16	SKA	5.374	MO	42	.9596	.0715	-.0364	.0053
16	SKA	5.374	PD	46	.9487	.1074	-.0687	.0127
16	SKA	5.374	AG	47	.9615	.0913	-.0632	.0104
16	SKA	5.374	CD	48	.9614	.0947	-.0660	.0100
16	SKA	5.374	SN	50	.9727	.0886	-.0712	.0100
16	SKA	5.374	SB	51	.9787	.0862	-.0752	.0104
16	SKA	5.374	CS	55	1.0081	.0740	-.0942	.0122
16	SKA	5.374	BA	56	1.0099	.0810	-.1045	.0137
16	SKA	5.374	LA	57	1.0222	.0715	-.1069	.0133
16	SKA	5.374	CE	58	1.0360	.0599	-.1082	.0125
16	SKA	5.374	HF	72	1.0860	.0695	-.1744	.0192
16	SKA	5.374	TA	73	1.0957	.0658	-.1802	.0190
16	SKA	5.374	W	74	1.1044	.0644	-.1876	.0190
16	SKA	5.374	RE	75	1.0792	.0797	-.1808	.0222
16	SKA	5.374	PT	78	1.1036	.0769	-.2030	.0229
16	SKA	5.374	AU	79	.9734	.1498	-.1552	.0322
16	SKA	5.374	PB	82	.9112	.1993	-.1475	.0371
16	SKA	5.374	TH	90	.9233	.2159	-.1861	.0471
16	SKA	5.374	U	92	.9283	.2190	-.1966	.0495
17	CLKA	4.728	B	5	1.0153	-.0107	-.0051	.0005
17	CLKA	4.728	C	6	1.0559	-.0494	-.0055	-.0010
17	CLKA	4.728	N	7	1.0602	-.0569	-.0017	-.0016
17	CLKA	4.728	O	8	1.0679	-.0677	.0019	-.0022
17	CLKA	4.728	F	9	1.0505	-.0548	.0069	-.0026
17	CLKA	4.728	NA	11	1.0868	-.0918	.0069	-.0019
17	CLKA	4.728	MG	12	1.1256	-.1300	.0058	-.0015
17	CLKA	4.728	AL	13	1.1357	-.1388	.0046	-.0016
17	CLKA	4.728	SI	14	1.1805	-.1819	.0026	-.0011
17	CLKA	4.728	P	15	1.1953	-.1927	-.0008	-.0018
17	CLKA	4.728	S	16	1.2431	-.2379	-.0032	-.0020
17	CLKA	4.728	K	19	.9517	.1615	-.1999	.0874
17	CLKA	4.728	CA	20	.9869	.0822	-.1183	.0494
17	CLKA	4.728	SC	21	.9764	.0598	-.0583	.0223
17	CLKA	4.728	TI	22	.9841	.0366	-.0308	.0101
17	CLKA	4.728	V	23	.9894	.0244	-.0182	.0045
17	CLKA	4.728	CR	24	1.0123	-.0028	-.0115	.0020
17	CLKA	4.728	MN	25	1.0169	-.0072	-.0107	.0010
17	CLKA	4.728	FE	26	1.0399	-.0313	-.0089	.0003
17	CLKA	4.728	CO	27	1.0433	-.0317	-.0117	.0002
17	CLKA	4.728	NI	28	1.0760	-.0667	-.0087	-.0007
17	CLKA	4.728	CU	29	1.0653	-.0489	-.0158	-.0006
17	CLKA	4.728	ZN	30	1.0809	-.0625	-.0173	-.0010

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
17	CLKA	4.728	GA	31	1.0774	-.0515	-.0250	-.0009
17	CLKA	4.728	GE	32	1.0865	-.0556	-.0297	-.0012
17	CLKA	4.728	Y	39	1.1951	-.1282	-.0591	-.0077
17	CLKA	4.728	ZR	40	1.2087	-.1365	-.0630	-.0091
17	CLKA	4.728	NB	41	1.1872	-.1223	-.0574	-.0075
17	CLKA	4.728	MO	42	1.1991	-.1261	-.0644	-.0086
17	CLKA	4.728	PD	46	.9252	.1392	-.0883	.0239
17	CLKA	4.728	AG	47	.9386	.1170	-.0734	.0179
17	CLKA	4.728	CD	48	.9396	.1129	-.0665	.0141
17	CLKA	4.728	SN	50	.9512	.0976	-.0587	.0100
17	CLKA	4.728	SB	51	.9569	.0920	-.0579	.0091
17	CLKA	4.728	CS	55	.9824	.0739	-.0656	.0093
17	CLKA	4.728	BA	56	.9829	.0797	-.0731	.0106
17	CLKA	4.728	LA	57	.9934	.0705	-.0743	.0105
17	CLKA	4.728	CE	58	1.0053	.0595	-.0748	.0101
17	CLKA	4.728	HF	72	1.1113	.0239	-.1457	.0110
17	CLKA	4.728	TA	73	1.0884	.0391	-.1410	.0137
17	CLKA	4.728	W	74	1.0962	.0374	-.1471	.0138
17	CLKA	4.728	RE	75	1.0636	.0583	-.1388	.0170
17	CLKA	4.728	PT	78	1.0843	.0548	-.1567	.0179
17	CLKA	4.728	AU	79	1.0632	.0670	-.1499	.0199
17	CLKA	4.728	PB	82	.9644	.1399	-.1323	.0281
17	CLKA	4.728	TH	90	.9166	.1921	-.1453	.0368
17	CLKA	4.728	U	92	.9198	.1952	-.1536	.0388
19	KKA	3.740	B	5	1.0164	-.0117	-.0052	.0005
19	KKA	3.740	C	6	1.0532	-.0456	-.0066	-.0011
19	KKA	3.740	N	7	1.0522	-.0471	-.0035	-.0016
19	KKA	3.740	O	8	1.0533	-.0506	-.0006	-.0022
19	KKA	3.740	F	9	1.0283	-.0299	.0036	-.0020
19	KKA	3.740	NA	11	1.0449	-.0474	.0037	-.0012
19	KKA	3.740	MG	12	1.0707	-.0731	.0036	-.0012
19	KKA	3.740	AL	13	1.0685	-.0715	.0041	-.0012
19	KKA	3.740	SI	14	1.0988	-.1010	.0031	-.0008
19	KKA	3.740	P	15	1.0984	-.0999	.0024	-.0009
19	KKA	3.740	S	16	1.1300	-.1305	.0012	-.0006
19	KKA	3.740	CL	17	1.1266	-.1242	-.0014	-.0009
19	KKA	3.740	CA	20	.8964	.3379	-.4203	.1876
19	KKA	3.740	SC	21	.9048	.2330	-.2412	.1042
19	KKA	3.740	TI	22	.9232	.1596	-.1404	.0580
19	KKA	3.740	V	23	.9356	.1126	-.0783	.0303
19	KKA	3.740	CR	24	.9610	.0677	-.0449	.0164
19	KKA	3.740	MN	25	.9671	.0504	-.0257	.0083
19	KKA	3.740	FE	26	.9883	.0225	-.0154	.0046
19	KKA	3.740	CO	27	.9896	.0195	-.0118	.0028
19	KKA	3.740	NI	28	1.0175	-.0117	-.0076	.0017

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
19	KKA	3.740	CU	29	1.0033	.0059	-.0108	.0016
19	KKA	3.740	ZN	30	1.0134	-.0036	-.0111	.0012
19	KKA	3.740	GA	31	1.0050	.0094	-.0158	.0014
19	KKA	3.740	GE	32	1.0081	.0092	-.0167	.0014
19	KKA	3.740	Y	39	1.0646	-.0288	-.0363	.0005
19	KKA	3.740	ZR	40	1.0721	-.0336	-.0387	.0002
19	KKA	3.740	NB	41	1.0854	-.0450	-.0399	-.0005
19	KKA	3.740	MO	42	1.0915	-.0459	-.0449	-.0006
19	KKA	3.740	PD	46	1.0440	-.0011	-.0446	.0017
19	KKA	3.740	AG	47	.9435	.0785	-.0262	.0041
19	KKA	3.740	CD	48	.9361	.0902	-.0311	.0049
19	KKA	3.740	SN	50	.9339	.0973	-.0371	.0060
19	KKA	3.740	SB	51	.9335	.1001	-.0402	.0065
19	KKA	3.740	CS	55	.9100	.1398	-.0607	.0110
19	KKA	3.740	BA	56	.9107	.1405	-.0622	.0110
19	KKA	3.740	LA	57	.9200	.1297	-.0601	.0104
19	KKA	3.740	CE	58	.9301	.1183	-.0585	.0100
19	KKA	3.740	HF	72	.9943	.0956	-.1067	.0168
19	KKA	3.740	TA	73	1.0000	.0931	-.1101	.0170
19	KKA	3.740	W	74	1.0047	.0925	-.1146	.0174
19	KKA	3.740	RE	75	1.0110	.0895	-.1179	.0176
19	KKA	3.740	PT	78	1.0039	.1018	-.1255	.0199
19	KKA	3.740	AU	79	1.0113	.0967	-.1277	.0198
19	KKA	3.740	PB	82	.9929	.1193	-.1355	.0235
19	KKA	3.740	TH	90	.9208	.1857	-.1381	.0318
19	KKA	3.740	U	92	.8800	.2165	-.1294	.0330
20	CAKA	3.357	B	5	1.0074	-.0037	-.0041	.0005
20	CAKA	3.357	C	6	1.0427	-.0364	-.0052	-.0011
20	CAKA	3.357	N	7	1.0403	-.0364	-.0017	-.0022
20	CAKA	3.357	O	8	1.0395	-.0375	.0006	-.0026
20	CAKA	3.357	F	9	1.0125	-.0144	.0045	-.0025
20	CAKA	3.357	NA	11	1.0233	-.0257	.0042	-.0017
20	CAKA	3.357	MG	12	1.0449	-.0469	.0035	-.0016
20	CAKA	3.357	AL	13	1.0392	-.0418	.0040	-.0014
20	CAKA	3.357	SI	14	1.0649	-.0671	.0037	-.0015
20	CAKA	3.357	P	15	1.0601	-.0619	.0033	-.0015
20	CAKA	3.357	S	16	1.0864	-.0875	.0023	-.0011
20	CAKA	3.357	CL	17	1.0781	-.0772	.0001	-.0011
20	CAKA	3.357	K	19	1.1130	-.1082	-.0049	.0001
20	CAKA	3.357	SC	21	.8507	.3746	-.4022	.1783
20	CAKA	3.357	TI	22	.8771	.2670	-.2506	.1073
20	CAKA	3.357	V	23	.8962	.1921	-.1484	.0605
20	CAKA	3.357	CR	24	.9255	.1290	-.0883	.0341
20	CAKA	3.357	MN	25	.9353	.0969	-.0494	.0173
20	CAKA	3.357	FE	26	.9580	.0611	-.0278	.0088

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
20	CAKA	3.357	CO	27	.9606	.0523	-.0173	.0044
20	CAKA	3.357	NI	28	.9879	.0200	-.0102	.0024
20	CAKA	3.357	CU	29	.9739	.0357	-.0113	.0017
20	CAKA	3.357	ZN	30	.9828	.0268	-.0108	.0013
20	CAKA	3.357	GA	31	.9733	.0401	-.0150	.0016
20	CAKA	3.357	GE	32	.9748	.0410	-.0175	.0017
20	CAKA	3.357	Y	39	1.0150	.0162	-.0332	.0020
20	CAKA	3.357	ZR	40	1.0204	.0129	-.0353	.0019
20	CAKA	3.357	NB	41	1.0309	.0039	-.0364	.0016
20	CAKA	3.357	MO	42	1.0343	.0046	-.0405	.0016
20	CAKA	3.357	PD	46	1.0602	-.0063	-.0552	.0013
20	CAKA	3.357	AG	47	1.0463	.0024	-.0501	.0014
20	CAKA	3.357	CD	48	1.0001	.0450	-.0488	.0037
20	CAKA	3.357	SN	50	.9122	.1195	-.0375	.0059
20	CAKA	3.357	SB	51	.9111	.1227	-.0401	.0063
20	CAKA	3.357	CS	55	.8690	.1909	-.0754	.0155
20	CAKA	3.357	BA	56	.8711	.1867	-.0714	.0136
20	CAKA	3.357	LA	57	.8810	.1731	-.0661	.0120
20	CAKA	3.357	CE	58	.8914	.1596	-.0619	.0109
20	CAKA	3.357	HF	72	.9476	.1349	-.1011	.0186
20	CAKA	3.357	TA	73	.9521	.1333	-.1042	.0189
20	CAKA	3.357	W	74	.9554	.1334	-.1081	.0194
20	CAKA	3.357	RE	75	.9603	.1312	-.1111	.0197
20	CAKA	3.357	PT	78	.9711	.1318	-.1242	.0214
20	CAKA	3.357	AU	79	.9776	.1274	-.1262	.0213
20	CAKA	3.357	PB	82	.9680	.1442	-.1366	.0246
20	CAKA	3.357	TH	90	.9552	.1743	-.1614	.0321
20	CAKA	3.357	U	92	.8909	.2175	-.1416	.0334
21	SCKA	3.030	B	5	1.0456	-.0369	-.0086	-.0002
21	SCKA	3.030	C	6	1.0815	-.0687	-.0108	-.0019
21	SCKA	3.030	N	7	1.0779	-.0679	-.0072	-.0027
21	SCKA	3.030	O	8	1.0757	-.0682	-.0041	-.0034
21	SCKA	3.030	F	9	1.0460	-.0439	.0009	-.0029
21	SCKA	3.030	NA	11	1.0529	-.0520	.0011	-.0020
21	SCKA	3.030	MG	12	1.0726	-.0712	.0005	-.0019
21	SCKA	3.030	AL	13	1.0639	-.0642	.0016	-.0014
21	SCKA	3.030	SI	14	1.0872	-.0867	.0004	-.0010
21	SCKA	3.030	P	15	1.0788	-.0793	.0009	-.0004
21	SCKA	3.030	S	16	1.1023	-.1026	.0003	-.0001
21	SCKA	3.030	CL	17	1.0900	-.0906	.0004	.0001
21	SCKA	3.030	K	19	1.1178	-.1179	.0004	-.0002
21	SCKA	3.030	CA	20	1.1434	-.1428	-.0005	-.0001
21	SCKA	3.030	TI	22	.8514	.4088	-.4617	.2031
21	SCKA	3.030	V	23	.8826	.2865	-.2938	.1255
21	SCKA	3.030	CR	24	.9210	.1890	-.1864	.0769

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
21	SCKA	3.030	MN	25	.9392	.1258	-.1068	.0421
21	SCKA	3.030	FE	26	.9677	.0707	-.0613	.0231
21	SCKA	3.030	CO	27	.9746	.0465	-.0323	.0113
21	SCKA	3.030	NI	28	1.0046	.0065	-.0170	.0059
21	SCKA	3.030	CU	29	.9920	.0150	-.0096	.0026
21	SCKA	3.030	ZN	30	1.0015	.0031	-.0058	.0012
21	SCKA	3.030	GA	31	.9917	.0143	-.0067	.0008
21	SCKA	3.030	GE	32	.9924	.0147	-.0078	.0007
21	SCKA	3.030	Y	39	1.0225	-.0063	-.0170	.0009
21	SCKA	3.030	ZR	40	1.0266	-.0091	-.0181	.0007
21	SCKA	3.030	NB	41	1.0353	-.0172	-.0182	.0002
21	SCKA	3.030	MO	42	1.0368	-.0161	-.0210	.0003
21	SCKA	3.030	PD	46	1.0549	-.0249	-.0297	-.0004
21	SCKA	3.030	AG	47	1.0642	-.0336	-.0297	-.0008
21	SCKA	3.030	CD	48	1.0605	-.0238	-.0364	-.0003
21	SCKA	3.030	SN	50	1.0075	.0239	-.0331	.0016
21	SCKA	3.030	SB	51	.9342	.0867	-.0241	.0033
21	SCKA	3.030	CS	55	.9330	.0936	-.0310	.0043
21	SCKA	3.030	BA	56	.9275	.1027	-.0354	.0052
21	SCKA	3.030	LA	57	.8770	.1773	-.0692	.0150
21	SCKA	3.030	CE	58	.8895	.1575	-.0587	.0117
21	SCKA	3.030	HF	72	.9526	.1025	-.0673	.0123
21	SCKA	3.030	TA	73	.9564	.1007	-.0697	.0126
21	SCKA	3.030	W	74	.9591	.1007	-.0726	.0130
21	SCKA	3.030	RE	75	.9632	.0985	-.0747	.0131
21	SCKA	3.030	PT	78	.9712	.0988	-.0841	.0141
21	SCKA	3.030	AU	79	.9768	.0946	-.0852	.0139
21	SCKA	3.030	PB	82	.9833	.0992	-.0981	.0158
21	SCKA	3.030	TH	90	.9711	.1266	-.1191	.0215
21	SCKA	3.030	U	92	.9617	.1374	-.1220	.0231
22	TIKA	2.748	B	5	1.0592	-.0487	-.0098	-.0007
22	TIKA	2.748	C	6	1.0949	-.0798	-.0128	-.0023
22	TIKA	2.748	N	7	1.0904	-.0778	-.0097	-.0028
22	TIKA	2.748	O	8	1.0871	-.0769	-.0072	-.0031
22	TIKA	2.748	F	9	1.0559	-.0518	-.0013	-.0028
22	TIKA	2.748	NA	11	1.0597	-.0568	-.0013	-.0017
22	TIKA	2.748	MG	12	1.0775	-.0740	-.0018	-.0018
22	TIKA	2.748	AL	13	1.0667	-.0653	-.0001	-.0013
22	TIKA	2.748	SI	14	1.0879	-.0856	-.0014	-.0009
22	TIKA	2.748	P	15	1.0767	-.0762	-.0002	-.0003
22	TIKA	2.748	S	16	1.0977	-.0964	-.0016	.0003
22	TIKA	2.748	CL	17	1.0824	-.0822	-.0012	.0010
22	TIKA	2.748	K	19	1.1041	-.1053	.0021	-.0009
22	TIKA	2.748	CA	20	1.1264	-.1265	.0000	.0000
22	TIKA	2.748	SC	21	1.0998	-.0986	-.0010	-.0002

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
22	TIKA	2.748	V	23	.9759	.0570	-.0594	.0267
22	TIKA	2.748	CR	24	.8849	.3061	-.3302	.1401
22	TIKA	2.748	MN	25	.9130	.2070	-.2028	.0833
22	TIKA	2.748	FE	26	.9486	.1267	-.1241	.0492
22	TIKA	2.748	CO	27	.9620	.0804	-.0681	.0258
22	TIKA	2.748	NI	28	.9958	.0284	-.0382	.0140
22	TIKA	2.748	CU	29	.9866	.0260	-.0189	.0064
22	TIKA	2.748	ZN	30	.9977	.0091	-.0098	.0031
22	TIKA	2.748	GA	31	.9887	.0167	-.0068	.0015
22	TIKA	2.748	GE	32	.9894	.0156	-.0059	.0008
22	TIKA	2.748	Y	39	1.0119	-.0010	-.0116	.0007
22	TIKA	2.748	ZR	40	1.0148	-.0029	-.0126	.0007
22	TIKA	2.748	NB	41	1.0220	-.0099	-.0124	.0003
22	TIKA	2.748	MO	42	1.0220	-.0078	-.0147	.0005
22	TIKA	2.748	PD	46	1.0337	-.0127	-.0209	-.0001
22	TIKA	2.748	AG	47	1.0415	-.0206	-.0203	-.0006
22	TIKA	2.748	CD	48	1.0362	-.0104	-.0257	-.0000
22	TIKA	2.748	SN	50	1.0397	-.0080	-.0318	.0001
22	TIKA	2.748	SB	51	1.0232	.0078	-.0318	.0008
22	TIKA	2.748	CS	55	.9337	.0879	-.0250	.0034
22	TIKA	2.748	BA	56	.9277	.0969	-.0286	.0040
22	TIKA	2.748	LA	57	.9315	.0932	-.0286	.0040
22	TIKA	2.748	CE	58	.9365	.0877	-.0280	.0038
22	TIKA	2.748	HF	72	.9393	.1047	-.0546	.0106
22	TIKA	2.748	TA	73	.9428	.1029	-.0565	.0108
22	TIKA	2.748	W	74	.9450	.1029	-.0591	.0112
22	TIKA	2.748	RE	75	.9486	.1009	-.0607	.0113
22	TIKA	2.748	PT	78	.9547	.1019	-.0687	.0122
22	TIKA	2.748	AU	79	.9594	.0983	-.0699	.0123
22	TIKA	2.748	PB	82	.9631	.1037	-.0806	.0138
22	TIKA	2.748	TH	90	.9506	.1298	-.0987	.0184
22	TIKA	2.748	U	92	.9567	.1297	-.1055	.0193
22	TILA	27.523	B	5	1.5869	-1.0912	.8481	-.3460
22	TILA	27.523	C	6	2.2327	-2.0387	1.3062	-.5027
22	TILA	27.523	N	7	2.9910	-3.1474	1.8506	-.6965
22	TILA	27.523	O	8	.7946	.3230	-.1581	.0409
22	TILA	27.523	F	9	.8522	.2026	-.0702	.0156
22	TILA	27.523	NA	11	1.0694	-.0860	.0293	-.0107
22	TILA	27.523	MG	12	1.2229	-.2633	.0560	-.0155
22	TILA	27.523	AL	13	1.3719	-.4359	.0879	-.0239
22	TILA	27.523	SI	14	1.5741	-.6462	.0990	-.0268
22	TILA	27.523	P	15	1.7637	-.8460	.1252	-.0429
22	TILA	27.523	S	16	2.0117	-1.0898	.1302	-.0519
22	TILA	27.523	CL	17	2.2375	-1.3133	.1593	-.0831
22	TILA	27.523	K	19	2.8201	-1.8604	.1815	-.1399

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
22	TILA	27.523	CA	20	3.1632	-2.1741	.1824	-.1695
22	TILA	27.523	SC	21	3.4288	-2.4023	.2056	-.2293
22	TILA	27.523	V	23	1.0293	-.0282	-.0011	-.0000
22	TILA	27.523	CR	24	1.0925	-.0892	-.0032	-.0002
22	TILA	27.523	MN	25	1.1512	-.1412	-.0091	-.0009
22	TILA	27.523	FE	26	1.2370	-.2202	-.0141	-.0027
22	TILA	27.523	CO	27	1.3096	-.2791	-.0248	-.0057
22	TILA	27.523	NI	28	1.4173	-.3784	-.0279	-.0110
22	TILA	27.523	CU	29	1.4812	-.4174	-.0462	-.0176
22	TILA	27.523	ZN	30	1.5751	-.4929	-.0553	-.0269
22	TILA	27.523	GA	31	1.6483	-.5352	-.0758	-.0371
22	TILA	27.523	GE	32	1.7361	-.5955	-.0904	-.0499
22	TILA	27.523	Y	39	2.4259	-1.0641	-.1553	-.2049
22	TILA	27.523	ZR	40	2.1691	-.8620	-.1511	-.1550
22	TILA	27.523	NB	41	2.2792	-.9395	-.1533	-.1849
22	TILA	27.523	MO	42	1.9148	-.6595	-.1456	-.1091
22	TILA	27.523	PD	46	2.2531	-.8530	-.1960	-.2024
22	TILA	27.523	AG	47	1.1533	-.0930	-.0686	.0084
22	TILA	27.523	CD	48	1.1632	-.0881	-.0841	.0091
22	TILA	27.523	SN	50	1.1971	-.0964	-.1115	.0109
22	TILA	27.523	SB	51	1.2153	-.0999	-.1276	.0125
22	TILA	27.523	CS	55	1.2969	-.1139	-.2038	.0214
22	TILA	27.523	BA	56	1.3122	-.1073	-.2254	.0210
22	TILA	27.523	LA	57	1.3392	-.1218	-.2347	.0178
22	TILA	27.523	CE	58	1.3680	-.1398	-.2406	.0130
22	TILA	27.523	HF	72	1.6855	-.2580	-.2911	-.1360
22	TILA	27.523	TA	73	1.7084	-.2692	-.2876	-.1511
22	TILA	27.523	W	74	1.7297	-.2767	-.2866	-.1659
22	TILA	27.523	RE	75	1.7531	-.2893	-.2810	-.1824
22	TILA	27.523	PT	78	1.8187	-.3135	-.2717	-.2330
22	TILA	27.523	AU	79	1.8454	-.3314	-.2607	-.2527
22	TILA	27.523	PB	82	1.9140	-.3462	-.2607	-.3061
22	TILA	27.523	TH	90	2.1636	-.4349	-.2199	-.5066
22	TILA	27.523	U	92	2.2451	-.4658	-.2033	-.5733
23	VKA	2.503	B	5	1.0733	-.0611	-.0107	-.0015
23	VKA	2.503	C	6	1.1090	-.0916	-.0142	-.0032
23	VKA	2.503	N	7	1.1037	-.0889	-.0113	-.0036
23	VKA	2.503	O	8	1.0995	-.0867	-.0094	-.0035
23	VKA	2.503	F	9	1.0669	-.0596	-.0058	-.0015
23	VKA	2.503	NA	11	1.0685	-.0631	-.0044	-.0010
23	VKA	2.503	MG	12	1.0849	-.0789	-.0048	-.0013
23	VKA	2.503	AL	13	1.0724	-.0688	-.0031	-.0005
23	VKA	2.503	SI	14	1.0920	-.0874	-.0043	-.0003
23	VKA	2.503	P	15	1.0788	-.0766	-.0023	.0001
23	VKA	2.503	S	16	1.0978	-.0950	-.0032	.0004

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
23	VKA	2.503	CL	17	1.0803	-.0798	-.0009	.0004
23	VKA	2.503	K	19	1.0971	-.0980	.0020	-.0012
23	VKA	2.503	CA	20	1.1170	-.1162	-.0013	.0005
23	VKA	2.503	SC	21	1.0879	-.0878	.0000	-.0001
23	VKA	2.503	TI	22	1.0089	-.0088	-.0001	-.0000
23	VKA	2.503	CR	24	.9910	.0501	-.0742	.0333
23	VKA	2.503	MN	25	.8744	.3310	-.3534	.1491
23	VKA	2.503	FE	26	.9192	.2182	-.2319	.0951
23	VKA	2.503	CO	27	.9422	.1401	-.1358	.0538
23	VKA	2.503	NI	28	.9821	.0683	-.0814	.0312
23	VKA	2.503	CU	29	.9790	.0469	-.0407	.0149
23	VKA	2.503	ZN	30	.9934	.0200	-.0206	.0073
23	VKA	2.503	GA	31	.9867	.0207	-.0106	.0032
23	VKA	2.503	GE	32	.9885	.0162	-.0063	.0015
23	VKA	2.503	Y	39	1.0066	.0005	-.0073	.0003
23	VKA	2.503	ZR	40	1.0085	-.0009	-.0077	.0001
23	VKA	2.503	NB	41	1.0145	-.0068	-.0078	.0000
23	VKA	2.503	MO	42	1.0134	-.0042	-.0091	-.0001
23	VKA	2.503	PD	46	1.0200	-.0058	-.0138	-.0004
23	VKA	2.503	AG	47	1.0266	-.0126	-.0136	-.0006
23	VKA	2.503	CD	48	1.0202	-.0022	-.0179	-.0001
23	VKA	2.503	SN	50	1.0209	.0017	-.0227	.0001
23	VKA	2.503	SB	51	1.0212	.0037	-.0252	.0003
23	VKA	2.503	CS	55	.9364	.0809	-.0199	.0026
23	VKA	2.503	BA	56	.9299	.0902	-.0232	.0032
23	VKA	2.503	LA	57	.9333	.0867	-.0231	.0031
23	VKA	2.503	CE	58	.9379	.0817	-.0226	.0030
23	VKA	2.503	HF	72	.9288	.1065	-.0444	.0091
23	VKA	2.503	TA	73	.9325	.1042	-.0460	.0094
23	VKA	2.503	W	74	.9346	.1038	-.0482	.0097
23	VKA	2.503	RE	75	.9382	.1016	-.0495	.0097
23	VKA	2.503	PT	78	.9433	.1026	-.0565	.0106
23	VKA	2.503	AU	79	.9475	.0993	-.0574	.0105
23	VKA	2.503	PB	82	.9494	.1052	-.0661	.0116
23	VKA	2.503	TH	90	.9520	.1193	-.0866	.0154
23	VKA	2.503	U	92	.9406	.1312	-.0883	.0166
23	VLA	24.395	B	5	1.4269	-.7898	.6158	-.2565
23	VLA	24.395	C	6	1.9430	-1.5323	.9638	-.3765
23	VLA	24.395	N	7	2.5374	-2.3990	1.3912	-.5318
23	VLA	24.395	O	8	.8225	.2703	-.1059	.0131
23	VLA	24.395	F	9	.8543	.2157	-.0953	.0255
23	VLA	24.395	NA	11	1.0308	-.0314	.0055	-.0049
23	VLA	24.395	MG	12	1.1579	-.1791	.0314	-.0102
23	VLA	24.395	AL	13	1.2765	-.3207	.0608	-.0166
23	VLA	24.395	SI	14	1.4440	-.4965	.0705	-.0180

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
23	VLA	24.395	P	15	1.5948	-.6581	.0925	-.0292
23	VLA	24.395	S	16	1.7990	-.8601	.0956	-.0344
23	VLA	24.395	CL	17	1.9769	-1.0381	.1200	-.0586
23	VLA	24.395	K	19	2.4482	-1.4840	.1405	-.1040
23	VLA	24.395	CA	20	2.7280	-1.7417	.1430	-.1280
23	VLA	24.395	SC	21	2.9518	-1.9413	.1776	-.1862
23	VLA	24.395	TI	22	3.1495	-2.1030	.1776	-.2216
23	VLA	24.395	CR	24	1.0546	-.0542	-.0004	-.0000
23	VLA	24.395	MN	25	1.1026	-.0990	-.0034	-.0002
23	VLA	24.395	FE	26	1.1764	-.1690	-.0064	-.0010
23	VLA	24.395	CO	27	1.2361	-.2198	-.0136	-.0027
23	VLA	24.395	NI	28	1.3300	-.3083	-.0161	-.0055
23	VLA	24.395	CU	29	1.3800	-.3403	-.0298	-.0098
23	VLA	24.395	ZN	30	1.4594	-.4063	-.0372	-.0159
23	VLA	24.395	GA	31	1.5180	-.4415	-.0534	-.0230
23	VLA	24.395	GE	32	1.5909	-.4933	-.0653	-.0321
23	VLA	24.395	Y	39	2.1676	-.8978	-.1182	-.1506
23	VLA	24.395	ZR	40	2.2576	-.9580	-.1223	-.1760
23	VLA	24.395	NB	41	2.0493	-.7979	-.1165	-.1340
23	VLA	24.395	MO	42	2.1343	-.8481	-.1274	-.1577
23	VLA	24.395	PD	46	2.0303	-.7335	-.1470	-.1487
23	VLA	24.395	AG	47	2.1154	-.7934	-.1467	-.1739
23	VLA	24.395	CD	48	2.1819	-.8136	-.1710	-.1958
23	VLA	24.395	SN	50	1.1635	-.0940	-.0752	.0058
23	VLA	24.395	SB	51	1.1797	-.1000	-.0853	.0057
23	VLA	24.395	CS	55	1.2539	-.1285	-.1300	.0048
23	VLA	24.395	BA	56	1.2667	-.1231	-.1490	.0056
23	VLA	24.395	LA	57	1.2913	-.1367	-.1596	.0053
23	VLA	24.395	CE	58	1.3174	-.1518	-.1705	.0053
23	VLA	24.395	HF	72	1.5896	-.1997	-.3457	-.0433
23	VLA	24.395	TA	73	1.6096	-.2074	-.3476	-.0535
23	VLA	24.395	W	74	1.6279	-.2122	-.3508	-.0639
23	VLA	24.395	RE	75	1.6484	-.2221	-.3486	-.0768
23	VLA	24.395	PT	78	1.7050	-.2377	-.3527	-.1136
23	VLA	24.395	AU	79	1.7285	-.2523	-.3465	-.1288
23	VLA	24.395	PB	82	1.7874	-.2629	-.3507	-.1728
23	VLA	24.395	TH	90	2.0036	-.3328	-.3337	-.3353
23	VLA	24.395	U	92	2.0744	-.3600	-.3195	-.3929
24	CRKA	2.290	B	5	1.0067	-.0561	-.0094	-.0013
24	CRKA	2.290	C	6	1.1018	-.0863	-.0122	-.0033
24	CRKA	2.290	N	7	1.0960	-.0827	-.0100	-.0034
24	CRKA	2.290	O	8	1.0912	-.0799	-.0078	-.0036
24	CRKA	2.290	F	9	1.0580	-.0512	-.0060	-.0008
24	CRKA	2.290	NA	11	1.0577	-.0518	-.0068	.0009
24	CRKA	2.290	MG	12	1.0729	-.0666	-.0068	.0005

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
24	CRKA	2.290	AL	13	1.0593	-.0556	-.0043	.0006
24	CRKA	2.290	SI	14	1.0773	-.0725	-.0057	.0010
24	CRKA	2.290	P	15	1.0628	-.0603	-.0039	.0014
24	CRKA	2.290	S	16	1.0800	-.0772	-.0041	.0013
24	CRKA	2.290	CL	17	1.0610	-.0604	-.0017	.0012
24	CRKA	2.290	K	19	1.0739	-.0754	.0032	-.0018
24	CRKA	2.290	CA	20	1.0915	-.0914	.0004	-.0005
24	CRKA	2.290	SC	21	1.0608	-.0614	.0014	-.0008
24	CRKA	2.290	TI	22	1.0564	-.0558	-.0006	-.0001
24	CRKA	2.290	V	23	.9896	.0104	.0000	.0000
24	CRKA	2.290	MN	25	.9705	.0743	-.0805	.0360
24	CRKA	2.290	FE	26	.8641	.3532	-.3725	.1563
24	CRKA	2.290	CO	27	.8973	.2416	-.2340	.0957
24	CRKA	2.290	NI	28	.9439	.1466	-.1494	.0593
24	CRKA	2.290	CU	29	.9491	.1002	-.0793	.0302
24	CRKA	2.290	ZN	30	.9683	.0588	-.0425	.0155
24	CRKA	2.290	GA	31	.9654	.0489	-.0213	.0070
24	CRKA	2.290	GE	32	.9693	.0389	-.0114	.0032
24	CRKA	2.290	Y	39	.9853	.0223	-.0086	.0009
24	CRKA	2.290	ZR	40	.9866	.0213	-.0081	.0003
24	CRKA	2.290	NB	41	.9916	.0160	-.0072	-.0004
24	CRKA	2.290	MO	42	.9896	.0195	-.0088	-.0002
24	CRKA	2.290	PD	46	.9922	.0212	-.0131	-.0003
24	CRKA	2.290	AG	47	.9980	.0153	-.0129	-.0005
24	CRKA	2.290	CD	48	.9906	.0262	-.0169	.0000
24	CRKA	2.290	SN	50	.9892	.0320	-.0219	.0008
24	CRKA	2.290	SB	51	.9886	.0344	-.0239	.0008
24	CRKA	2.290	CS	55	.9815	.0467	-.0302	.0020
24	CRKA	2.290	BA	56	.9550	.0728	-.0307	.0030
24	CRKA	2.290	LA	57	.9185	.1025	-.0245	.0034
24	CRKA	2.290	CE	58	.9227	.0980	-.0240	.0033
24	CRKA	2.290	HF	72	.9019	.1339	-.0451	.0094
24	CRKA	2.290	TA	73	.9060	.1307	-.0464	.0097
24	CRKA	2.290	W	74	.9087	.1296	-.0484	.0102
24	CRKA	2.290	RE	75	.9123	.1270	-.0496	.0103
24	CRKA	2.290	PT	78	.9175	.1278	-.0565	.0113
24	CRKA	2.290	AU	79	.9213	.1248	-.0574	.0113
24	CRKA	2.290	PB	82	.9220	.1316	-.0662	.0127
24	CRKA	2.290	TH	90	.9313	.1407	-.0883	.0163
24	CRKA	2.290	U	92	.9245	.1493	-.0910	.0173
24	CRLA	21.765	B	5	1.2805	-.5379	.4487	-.1926
24	CRLA	21.765	C	6	1.6827	-1.1128	.7177	-.2892
24	CRLA	21.765	N	7	2.1395	-1.7793	1.0540	-.4161
24	CRLA	21.765	O	8	2.6872	-2.5432	1.4080	-.5538
24	CRLA	21.765	F	9	.8391	.2387	-.1135	.0361

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
24	CRLA	21.765	NA	11	.9790	.0322	-.0119	.0008
24	CRLA	21.765	MG	12	1.0823	-.0907	.0149	-.0066
24	CRLA	21.765	AL	13	1.1742	-.2044	.0431	-.0128
24	CRLA	21.765	SI	14	1.3102	-.3490	.0535	-.0147
24	CRLA	21.765	P	15	1.4272	-.4766	.0720	-.0226
24	CRLA	21.765	S	16	1.5924	-.6413	.0752	-.0263
24	CRLA	21.765	CL	17	1.7294	-.7788	.0932	-.0438
24	CRLA	21.765	K	19	2.1041	-1.1338	.1086	-.0785
24	CRLA	21.765	CA	20	2.3287	-1.3416	.1116	-.0980
24	CRLA	21.765	SC	21	2.4965	-1.4886	.1385	-.1452
24	CRLA	21.765	TI	22	2.7143	-1.6789	.1519	-.1855
24	CRLA	21.765	V	23	2.8296	-1.7597	.1420	-.2098
24	CRLA	21.765	MN	25	1.0380	-.0368	-.0012	-.0000
24	CRLA	21.765	FE	26	1.1000	-.0966	-.0032	-.0002
24	CRLA	21.765	CO	27	1.1476	-.1383	-.0084	-.0009
24	CRLA	21.765	NI	28	1.2276	-.2150	-.0104	-.0023
24	CRLA	21.765	CU	29	1.2652	-.2390	-.0217	-.0045
24	CRLA	21.765	ZN	30	1.3309	-.2945	-.0285	-.0079
24	CRLA	21.765	GA	31	1.3764	-.3214	-.0429	-.0120
24	CRLA	21.765	GE	32	1.4355	-.3637	-.0542	-.0176
24	CRLA	21.765	Y	39	1.9079	-.6949	-.1132	-.0992
24	CRLA	21.765	ZR	40	1.9816	-.7439	-.1192	-.1177
24	CRLA	21.765	NB	41	2.0625	-.8026	-.1199	-.1390
24	CRLA	21.765	MO	42	2.1348	-.8434	-.1298	-.1604
24	CRLA	21.765	PD	46	1.8000	-.5659	-.1373	-.0961
24	CRLA	21.765	AG	47	1.8709	-.6162	-.1394	-.1145
24	CRLA	21.765	CD	48	1.9237	-.6307	-.1615	-.1306
24	CRLA	21.765	SN	50	1.2616	-.1608	-.0939	-.0068
24	CRLA	21.765	SB	51	1.1168	-.0534	-.0696	.0063
24	CRLA	21.765	CS	55	1.1807	-.0812	-.1052	.0058
24	CRLA	21.765	BA	56	1.1912	-.0769	-.1203	.0062
24	CRLA	21.765	LA	57	1.2131	-.0910	-.1271	.0052
24	CRLA	21.765	CE	58	1.2366	-.1073	-.1331	.0039
24	CRLA	21.765	HF	72	1.4699	-.1239	-.3565	.0116
24	CRLA	21.765	TA	73	1.4867	-.1259	-.3685	.0090
24	CRLA	21.765	W	74	1.5019	-.1251	-.3814	.0060
24	CRLA	21.765	RE	75	1.5190	-.1282	-.3911	.0016
24	CRLA	21.765	PT	78	1.5661	-.1286	-.4220	-.0141
24	CRLA	21.765	AU	79	1.5862	-.1375	-.4248	-.0225
24	CRLA	21.765	PB	82	1.6349	-.1348	-.4510	-.0476
24	CRLA	21.765	TH	90	1.8168	-.1691	-.4868	-.1591
24	CRLA	21.765	U	92	1.8766	-.1844	-.4909	-.1992
25	MNKA	2.102	B	5	1.0796	-.0668	-.0117	-.0012
25	MNKA	2.102	C	6	1.1149	-.0981	-.0122	-.0048
25	MNKA	2.102	N	7	1.1087	-.0937	-.0107	-.0044

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
25	MNKA	2.102	O	8	1.1033	-.0903	-.0084	-.0047
25	MNKA	2.102	F	9	1.0690	-.0606	-.0073	-.0013
25	MNKA	2.102	NA	11	1.0672	-.0592	-.0095	.0013
25	MNKA	2.102	MG	12	1.0816	-.0725	-.0106	.0014
25	MNKA	2.102	AL	13	1.0670	-.0610	-.0078	.0017
25	MNKA	2.102	SI	14	1.0842	-.0775	-.0080	.0013
25	MNKA	2.102	P	15	1.0683	-.0644	-.0057	.0017
25	MNKA	2.102	S	16	1.0845	-.0799	-.0061	.0015
25	MNKA	2.102	CL	17	1.0640	-.0626	-.0024	.0010
25	MNKA	2.102	K	19	1.0740	-.0746	.0021	-.0016
25	MNKA	2.102	CA	20	1.0901	-.0886	-.0021	.0005
25	MNKA	2.102	SC	21	1.0577	-.0578	-.0006	.0006
25	MNKA	2.102	TI	22	1.0518	-.0518	-.0006	.0006
25	MNKA	2.102	V	23	1.0465	-.0461	-.0011	.0006
25	MNKA	2.102	CR	24	1.0078	-.0075	-.0011	.0008
25	MNKA	2.102	FE	26	.9844	.0686	-.0951	.0424
25	MNKA	2.102	CO	27	.8548	.3698	-.3835	.1600
25	MNKA	2.102	NI	28	.9110	.2453	-.2624	.1068
25	MNKA	2.102	CU	29	.9280	.1623	-.1490	.0591
25	MNKA	2.102	ZN	30	.9552	.0971	-.0845	.0324
25	MNKA	2.102	GA	31	.9588	.0684	-.0425	.0155
25	MNKA	2.102	GE	32	.9667	.0474	-.0210	.0071
25	MNKA	2.102	Y	39	.9848	.0208	-.0066	.0009
25	MNKA	2.102	ZR	40	.9855	.0204	-.0063	.0005
25	MNKA	2.102	NB	41	.9897	.0158	-.0055	-.0001
25	MNKA	2.102	MO	42	.9870	.0194	-.0058	-.0005
25	MNKA	2.102	PD	46	.9866	.0224	-.0076	-.0014
25	MNKA	2.102	AG	47	.9918	.0172	-.0075	-.0014
25	MNKA	2.102	CD	48	.9836	.0283	-.0110	-.0010
25	MNKA	2.102	SN	50	.9806	.0347	-.0147	-.0006
25	MNKA	2.102	SB	51	.9793	.0377	-.0170	-.0001
25	MNKA	2.102	CS	55	.9813	.0420	-.0242	.0009
25	MNKA	2.102	BA	56	.9663	.0586	-.0266	.0017
25	MNKA	2.102	LA	57	.9713	.0540	-.0272	.0020
25	MNKA	2.102	CE	58	.9583	.0636	-.0239	.0021
25	MNKA	2.102	HF	72	.8898	.1421	-.0405	.0085
25	MNKA	2.102	TA	73	.8954	.1367	-.0412	.0091
25	MNKA	2.102	W	74	.8992	.1335	-.0416	.0090
25	MNKA	2.102	RE	75	.9037	.1296	-.0425	.0093
25	MNKA	2.102	PT	78	.9103	.1277	-.0482	.0102
25	MNKA	2.102	AU	79	.9144	.1245	-.0490	.0102
25	MNKA	2.102	PB	82	.9147	.1308	-.0565	.0110
25	MNKA	2.102	TH	90	.9195	.1420	-.0757	.0144
25	MNKA	2.102	U	92	.9220	.1438	-.0811	.0154
25	MNLA	19.536	B	5	1.1878	-.3626	.3142	-.1403

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
25	MNLA	19.536	C	6	1.5104	-.8154	.5158	-.2121
25	MNLA	19.536	N	7	1.8693	-1.3353	.7701	-.3057
25	MNLA	19.536	O	8	2.3003	-1.9323	1.0413	-.4109
25	MNLA	19.536	F	9	.8382	.2608	-.1518	.0533
25	MNLA	19.536	NA	11	.9522	.0768	-.0376	.0088
25	MNLA	19.536	MG	12	1.0382	-.0294	-.0076	-.0011
25	MNLA	19.536	AL	13	1.1103	-.1245	.0217	-.0076
25	MNLA	19.536	SI	14	1.2233	-.2469	.0330	-.0095
25	MNLA	19.536	P	15	1.3155	-.3513	.0503	-.0146
25	MNLA	19.536	S	16	1.4523	-.4894	.0531	-.0160
25	MNLA	19.536	CL	17	1.5596	-.5997	.0674	-.0273
25	MNLA	19.536	K	19	1.8645	-.8909	.0762	-.0496
25	MNLA	19.536	CA	20	2.0493	-1.0627	.0760	-.0622
25	MNLA	19.536	SC	21	2.1772	-1.1753	.0979	-.0992
25	MNLA	19.536	TI	22	2.3506	-1.3277	.1091	-.1310
25	MNLA	19.536	V	23	2.5339	-1.4851	.1199	-.1674
25	MNLA	19.536	CR	24	2.6244	-1.5518	.1058	-.1767
25	MNLA	19.536	FE	26	1.0530	-.0526	-.0003	-.0000
25	MNLA	19.536	CO	27	1.0912	-.0882	-.0028	-.0002
25	MNLA	19.536	NI	28	1.1609	-.1563	-.0039	-.0007
25	MNLA	19.536	CU	29	1.1888	-.1759	-.0112	-.0017
25	MNLA	19.536	ZN	30	1.2441	-.2246	-.0161	-.0034
25	MNLA	19.536	GA	31	1.2797	-.2471	-.0269	-.0057
25	MNLA	19.536	GE	32	1.3285	-.2837	-.0358	-.0090
25	MNLA	19.536	Y	39	1.7231	-.5702	-.0893	-.0632
25	MNLA	19.536	ZR	40	1.7848	-.6125	-.0954	-.0764
25	MNLA	19.536	NB	41	1.8530	-.6634	-.0974	-.0918
25	MNLA	19.536	MO	42	1.9128	-.6981	-.1064	-.1076
25	MNLA	19.536	PD	46	1.9642	-.7046	-.1262	-.1325
25	MNLA	19.536	AG	47	1.6960	-.5120	-.1101	-.0735
25	MNLA	19.536	CD	48	1.7386	-.5241	-.1269	-.0852
25	MNLA	19.536	SN	50	1.8471	-.5791	-.1519	-.1154
25	MNLA	19.536	SB	51	1.9047	-.6081	-.1629	-.1327
25	MNLA	19.536	CS	55	1.1313	-.0614	-.0758	.0060
25	MNLA	19.536	BA	56	1.1397	-.0582	-.0878	.0065
25	MNLA	19.536	LA	57	1.1593	-.0721	-.0930	.0058
25	MNLA	19.536	CE	58	1.1804	-.0881	-.0972	.0049
25	MNLA	19.536	HF	72	1.3890	-.1380	-.2500	-.0003
25	MNLA	19.536	TA	73	1.4037	-.1388	-.2649	.0008
25	MNLA	19.536	W	74	1.4166	-.1352	-.2841	.0036
25	MNLA	19.536	RE	75	1.4312	-.1325	-.3060	.0083
25	MNLA	19.536	PT	78	1.4707	-.1202	-.3628	.0137
25	MNLA	19.536	AU	79	1.4878	-.1226	-.3780	.0142
25	MNLA	19.536	PB	82	1.5285	-.1082	-.4293	.0106
25	MNLA	19.536	TH	90	1.6832	-.1110	-.5255	-.0445

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
25	MNLA	19.536	U	92	1.7343	-.1195	-.5406	-.0718
26	FEKA	1.936	B	5	1.0732	-.0613	-.0114	-.0005
26	FEKA	1.936	C	6	1.1079	-.0917	-.0132	-.0031
26	FEKA	1.936	N	7	1.1016	-.0888	-.0077	-.0052
26	FEKA	1.936	O	8	1.0958	-.0846	-.0064	-.0049
26	FEKA	1.936	F	9	1.0612	-.0544	-.0045	-.0024
26	FEKA	1.936	NA	11	1.0582	-.0509	-.0087	.0013
26	FEKA	1.936	MG	12	1.0717	-.0632	-.0100	.0015
26	FEKA	1.936	AL	13	1.0564	-.0501	-.0091	.0028
26	FEKA	1.936	SI	14	1.0726	-.0654	-.0100	.0029
26	FEKA	1.936	P	15	1.0562	-.0527	-.0050	.0016
26	FEKA	1.936	S	16	1.0711	-.0673	-.0050	.0012
26	FEKA	1.936	CL	17	1.0498	-.0493	-.0006	.0001
26	FEKA	1.936	K	19	1.0573	-.0583	.0033	-.0024
26	FEKA	1.936	CA	20	1.0720	-.0707	-.0011	-.0002
26	FEKA	1.936	SC	21	1.0388	-.0391	.0004	-.0001
26	FEKA	1.936	TI	22	1.0317	-.0319	.0004	-.0001
26	FEKA	1.936	V	23	1.0251	-.0250	-.0000	-.0001
26	FEKA	1.936	CR	24	1.0390	-.0387	-.0002	-.0001
26	FEKA	1.936	MN	25	.9897	.0103	.0000	.0000
26	FEKA	1.936	CO	27	.9631	.0923	-.0991	.0441
26	FEKA	1.936	NI	28	.8524	.3852	-.4043	.1679
26	FEKA	1.936	CU	29	.8825	.2657	-.2495	.1021
26	FEKA	1.936	ZN	30	.9189	.1726	-.1513	.0603
26	FEKA	1.936	GA	31	.9311	.1189	-.0806	.0307
26	FEKA	1.936	GE	32	.9446	.0819	-.0411	.0146
26	FEKA	1.936	Y	39	.9684	.0375	-.0056	-.0003
26	FEKA	1.936	ZR	40	.9686	.0374	-.0050	-.0010
26	FEKA	1.936	NB	41	.9722	.0339	-.0051	-.0010
26	FEKA	1.936	MO	42	.9689	.0378	-.0053	-.0015
26	FEKA	1.936	PD	46	.9661	.0435	-.0077	-.0020
26	FEKA	1.936	AG	47	.9706	.0386	-.0069	-.0023
26	FEKA	1.936	CD	48	.9620	.0496	-.0093	-.0024
26	FEKA	1.936	SN	50	.9577	.0570	-.0127	-.0020
26	FEKA	1.936	SB	51	.9560	.0602	-.0144	-.0017
26	FEKA	1.936	CS	55	.9553	.0666	-.0216	-.0003
26	FEKA	1.936	BA	56	.9498	.0754	-.0256	.0004
26	FEKA	1.936	LA	57	.9543	.0713	-.0263	.0006
26	FEKA	1.936	CE	58	.9513	.0726	-.0245	.0006
26	FEKA	1.936	HF	72	.8596	.1767	-.0449	.0087
26	FEKA	1.936	TA	73	.8670	.1680	-.0434	.0085
26	FEKA	1.936	W	74	.8725	.1623	-.0431	.0084
26	FEKA	1.936	RE	75	.8783	.1566	-.0436	.0088
26	FEKA	1.936	PT	78	.8877	.1510	-.0485	.0099
26	FEKA	1.936	AU	79	.8922	.1470	-.0487	.0096

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
26	FEKA	1.936	PB	82	.8932	.1526	-.0568	.0111
26	FEKA	1.936	TH	90	.8946	.1660	-.0745	.0140
26	FEKA	1.936	U	92	.8958	.1686	-.0793	.0150
26	FELA	17.629	B	5	1.1022	-.2234	.2254	-.1050
26	FELA	17.629	C	6	1.3595	-.5796	.3817	-.1626
26	FELA	17.629	N	7	1.6389	-.9838	.5794	-.2357
26	FELA	17.629	O	8	1.9751	-1.4485	.7916	-.3197
26	FELA	17.629	F	9	2.3214	-1.9464	1.0719	-.4483
26	FELA	17.629	NA	11	.9180	.1220	-.0579	.0181
26	FELA	17.629	MG	12	.9893	.0298	-.0236	.0045
26	FELA	17.629	AL	13	1.0450	-.0491	.0078	-.0037
26	FELA	17.629	SI	14	1.1381	-.1520	.0208	-.0070
26	FELA	17.629	P	15	1.2095	-.2360	.0377	-.0113
26	FELA	17.629	S	16	1.3218	-.3509	.0414	-.0124
26	FELA	17.629	CL	17	1.4044	-.4374	.0530	-.0200
26	FELA	17.629	K	19	1.6506	-.6739	.0582	-.0348
26	FELA	17.629	CA	20	1.8017	-.8150	.0566	-.0433
26	FELA	17.629	SC	21	1.8976	-.8972	.0703	-.0703
26	FELA	17.629	TI	22	2.0347	-1.0164	.0765	-.0942
26	FELA	17.629	V	23	2.1794	-1.1391	.0828	-.1223
26	FELA	17.629	CR	24	2.3624	-1.3018	.0898	-.1491
26	FELA	17.629	MN	25	2.3834	-1.2983	.0730	-.1568
26	FELA	17.629	CO	27	1.0300	-.0290	-.0010	-.0000
26	FELA	17.629	NI	28	1.0899	-.0881	-.0017	-.0001
26	FELA	17.629	CU	29	1.1097	-.1024	-.0069	-.0005
26	FELA	17.629	ZN	30	1.1555	-.1436	-.0107	-.0012
26	FELA	17.629	GA	31	1.1826	-.1608	-.0196	-.0022
26	FELA	17.629	GE	32	1.2222	-.1910	-.0273	-.0038
26	FELA	17.629	Y	39	1.5480	-.4295	-.0813	-.0370
26	FELA	17.629	ZR	40	1.5991	-.4646	-.0884	-.0458
26	FELA	17.629	NB	41	1.6562	-.5073	-.0923	-.0563
26	FELA	17.629	MO	42	1.7050	-.5352	-.1023	-.0672
26	FELA	17.629	PD	46	1.7481	-.5407	-.1230	-.0839
26	FELA	17.629	AG	47	1.8138	-.5885	-.1244	-.1002
26	FELA	17.629	CD	48	1.6824	-.4768	-.1313	-.0739
26	FELA	17.629	SN	50	1.6511	-.4367	-.1433	-.0706
26	FELA	17.629	SB	51	1.6985	-.4601	-.1552	-.0826
26	FELA	17.629	CS	55	1.0707	-.0136	-.0645	.0075
26	FELA	17.629	BA	56	1.0771	-.0103	-.0748	.0081
26	FELA	17.629	LA	57	1.0943	-.0230	-.0792	.0079
26	FELA	17.629	CE	58	1.1130	-.0377	-.0827	.0074
26	FELA	17.629	HF	72	1.2937	-.0907	-.2069	.0042
26	FELA	17.629	TA	73	1.3069	-.0937	-.2165	.0038
26	FELA	17.629	W	74	1.3186	-.0938	-.2262	.0038
26	FELA	17.629	RE	75	1.3321	-.0969	-.2382	.0035

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
26	FELA	17.629	PT	78	1.3675	-.0934	-.2778	.0044
26	FELA	17.629	AU	79	1.3831	-.0981	-.2885	.0042
26	FELA	17.629	PB	82	1.4177	-.0811	-.3455	.0099
26	FELA	17.629	TH	90	1.5468	-.0432	-.5190	.0175
26	FELA	17.629	U	92	1.5901	-.0412	-.5542	.0077
27	COKA	1.789	B	5	1.0879	-.0740	-.0131	-.0008
27	COKA	1.789	C	6	1.1229	-.1042	-.0153	-.0034
27	COKA	1.789	N	7	1.1161	-.1003	-.0114	-.0044
27	COKA	1.789	O	8	1.1101	-.0977	-.0059	-.0066
27	COKA	1.789	F	9	1.0746	-.0663	-.0056	-.0028
27	COKA	1.789	NA	11	1.0705	-.0618	-.0093	.0005
27	COKA	1.789	MG	12	1.0836	-.0734	-.0114	.0012
27	COKA	1.789	AL	13	1.0674	-.0599	-.0097	.0022
27	COKA	1.789	SI	14	1.0830	-.0735	-.0125	.0031
27	COKA	1.789	P	15	1.0655	-.0594	-.0091	.0031
27	COKA	1.789	S	16	1.0801	-.0743	-.0075	.0018
27	COKA	1.789	CL	17	1.0578	-.0570	.0002	-.0010
27	COKA	1.789	K	19	1.0634	-.0638	.0033	-.0030
27	COKA	1.789	CA	20	1.0771	-.0746	-.0021	-.0003
27	COKA	1.789	SC	21	1.0426	-.0425	-.0000	-.0001
27	COKA	1.789	TI	22	1.0344	-.0346	.0003	-.0001
27	COKA	1.789	V	23	1.0267	-.0269	.0003	-.0001
27	COKA	1.789	CR	24	1.0394	-.0395	.0001	-.0000
27	COKA	1.789	MN	25	1.0335	-.0334	-.0001	-.0000
27	COKA	1.789	FE	26	1.0092	-.0091	-.0001	-.0000
27	COKA	1.789	NI	28	.9858	.0799	-.1172	.0519
27	COKA	1.789	CU	29	.8383	.3954	-.3967	.1642
27	COKA	1.789	ZN	30	.8876	.2666	-.2586	.1052
27	COKA	1.789	GA	31	.9128	.1753	-.1454	.0578
27	COKA	1.789	GE	32	.9355	.1128	-.0785	.0305
27	COKA	1.789	Y	39	.9722	.0331	-.0065	.0012
27	COKA	1.789	ZR	40	.9720	.0330	-.0048	-.0002
27	COKA	1.789	NB	41	.9752	.0292	-.0034	-.0010
27	COKA	1.789	MO	42	.9714	.0333	-.0031	-.0016
27	COKA	1.789	PD	46	.9666	.0401	-.0042	-.0025
27	COKA	1.789	AG	47	.9706	.0360	-.0042	-.0025
27	COKA	1.789	CD	48	.9615	.0470	-.0059	-.0027
27	COKA	1.789	SN	50	.9561	.0552	-.0091	-.0022
27	COKA	1.789	SB	51	.9538	.0587	-.0107	-.0019
27	COKA	1.789	CS	55	.9511	.0655	-.0149	-.0017
27	COKA	1.789	BA	56	.9450	.0744	-.0183	-.0011
27	COKA	1.789	LA	57	.9490	.0706	-.0190	-.0006
27	COKA	1.789	CE	58	.9539	.0656	-.0188	-.0007
27	COKA	1.789	HF	72	.8391	.2004	-.0490	.0096
27	COKA	1.789	TA	73	.8497	.1865	-.0450	.0089

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p0	p1	p2	p3
27	COKA	1.789	W	74	.8581	.1759	-.0422	.0083
27	COKA	1.789	RE	75	.8665	.1660	-.0404	.0080
27	COKA	1.789	PT	78	.8814	.1519	-.0416	.0083
27	COKA	1.789	AU	79	.8871	.1466	-.0419	.0084
27	COKA	1.789	PB	82	.8902	.1492	-.0489	.0095
27	COKA	1.789	TH	90	.8899	.1625	-.0638	.0115
27	COKA	1.789	U	92	.8900	.1659	-.0689	.0130
27	COLA	15.988	B	5	1.0588	-.1350	.1532	-.0775
27	COLA	15.988	C	6	1.2706	-.4226	.2731	-.1219
27	COLA	15.988	N	7	1.4940	-.7448	.4252	-.1754
27	COLA	15.988	O	8	1.7640	-1.1152	.5866	-.2365
27	COLA	15.988	F	9	2.0364	-1.5071	.8030	-.3337
27	COLA	15.988	NA	11	.9078	.1522	-.0910	.0314
27	COLA	15.988	MG	12	.9692	.0668	-.0484	.0126
27	COLA	15.988	AL	13	1.0131	-.0031	-.0116	.0016
27	COLA	15.988	SI	14	1.0923	-.0932	.0042	-.0033
27	COLA	15.988	P	15	1.1486	-.1641	.0226	-.0072
27	COLA	15.988	S	16	1.2435	-.2629	.0274	-.0080
27	COLA	15.988	CL	17	1.3081	-.3342	.0389	-.0128
27	COLA	15.988	K	19	1.5124	-.5339	.0424	-.0209
27	COLA	15.988	CA	20	1.6397	-.6539	.0396	-.0252
27	COLA	15.988	SC	21	1.7126	-.7176	.0497	-.0445
27	COLA	15.988	TI	22	1.8241	-.8153	.0529	-.0614
27	COLA	15.988	V	23	1.9416	-.9155	.0564	-.0821
27	COLA	15.988	CR	24	2.0945	-1.0521	.0595	-.1012
27	COLA	15.988	MN	25	2.2273	-1.1623	.0652	-.1292
27	COLA	15.988	FE	26	2.2502	-1.1713	.0491	-.1270
27	COLA	15.988	NI	28	1.0530	-.0530	-.0000	-.0000
27	COLA	15.988	CU	29	1.0663	-.0640	-.0022	-.0001
27	COLA	15.988	ZN	30	1.1052	-.1004	-.0044	-.0004
27	COLA	15.988	GA	31	1.1257	-.1147	-.0101	-.0008
27	COLA	15.988	GE	32	1.1584	-.1413	-.0156	-.0016
27	COLA	15.988	Y	39	1.4335	-.3518	-.0602	-.0214
27	COLA	15.988	ZR	40	1.4769	-.3830	-.0665	-.0273
27	COLA	15.988	NB	41	1.5260	-.4210	-.0705	-.0343
27	COLA	15.988	MO	42	1.5670	-.4455	-.0795	-.0418
27	COLA	15.988	PD	46	1.7583	-.5660	-.1079	-.0839
27	COLA	15.988	AG	47	1.8182	-.6106	-.1083	-.0986
27	COLA	15.988	CD	48	1.0986	-.5063	-.1164	-.0754
27	COLA	15.988	SN	50	1.6325	-.4425	-.1244	-.0652
27	COLA	15.988	SB	51	1.5607	-.3852	-.1229	-.0523
27	COLA	15.988	CS	55	1.7391	-.4807	-.1603	-.0974
27	COLA	15.988	BA	56	1.0431	.0042	-.0546	.0073
27	COLA	15.988	LA	57	1.0585	-.0078	-.0579	.0073
27	COLA	15.988	CE	58	1.0753	-.0218	-.0606	.0071

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
27	COLA	15.988	HF	72	1.2338	-.0800	-.1599	.0063
27	COLA	15.988	TA	73	1.2455	-.0839	-.1674	.0060
27	COLA	15.988	W	74	1.2559	-.0852	-.1763	.0058
27	COLA	15.988	RE	75	1.2681	-.0893	-.1838	.0054
27	COLA	15.988	PT	78	1.2997	-.0909	-.2136	.0051
27	COLA	15.988	AU	79	1.3140	-.0972	-.2206	.0042
27	COLA	15.988	PB	82	1.3452	-.0903	-.2589	.0046
27	COLA	15.988	TH	90	1.4623	-.0798	-.3843	.0030
27	COLA	15.988	U	92	1.4996	-.0713	-.4334	.0067
28	NIKA	1.658	B	5	1.0728	-.0623	-.0100	-.0004
28	NIKA	1.658	C	6	1.1070	-.0926	-.0110	-.0035
28	NIKA	1.658	N	7	1.1000	-.0873	-.0096	-.0032
28	NIKA	1.658	O	8	1.0937	-.0826	-.0082	-.0030
28	NIKA	1.658	F	9	1.0587	-.0530	-.0036	-.0021
28	NIKA	1.658	NA	11	1.0537	-.0474	-.0074	.0011
28	NIKA	1.658	MG	12	1.0661	-.0586	-.0083	.0008
28	NIKA	1.658	AL	13	1.0497	-.0444	-.0069	.0016
28	NIKA	1.658	SI	14	1.0644	-.0580	-.0082	.0018
28	NIKA	1.658	P	15	1.0465	-.0420	-.0074	.0029
28	NIKA	1.658	S	16	1.0600	-.0549	-.0076	.0026
28	NIKA	1.658	CL	17	1.0374	-.0359	-.0026	.0012
28	NIKA	1.658	K	19	1.0416	-.0435	.0054	-.0036
28	NIKA	1.658	CA	20	1.0541	-.0526	-.0013	-.0002
28	NIKA	1.658	SC	21	1.0195	-.0198	.0004	-.0001
28	NIKA	1.658	TI	22	1.0107	-.0111	.0005	-.0001
28	NIKA	1.658	V	23	1.0022	-.0024	.0003	-.0001
28	NIKA	1.658	CR	24	1.0136	-.0137	.0002	-.0001
28	NIKA	1.658	MN	25	1.0069	-.0067	-.0002	-.0001
28	NIKA	1.658	FE	26	1.0193	-.0191	-.0002	-.0000
28	NIKA	1.658	CO	27	.9815	.0186	-.0001	.0000
28	NIKA	1.658	CU	29	.9449	.1174	-.1107	.0488
28	NIKA	1.658	ZN	30	.8242	.4029	-.3854	.1593
28	NIKA	1.658	GA	31	.8623	.2780	-.2355	.0958
28	NIKA	1.658	GE	32	.8955	.1855	-.1335	.0528
28	NIKA	1.658	Y	39	.9501	.0567	-.0088	.0019
28	NIKA	1.658	ZR	40	.9495	.0572	-.0076	.0009
28	NIKA	1.658	NB	41	.9522	.0546	-.0075	.0007
28	NIKA	1.658	MO	42	.9482	.0589	-.0070	-.0001
28	NIKA	1.658	PD	46	.9419	.0672	-.0076	-.0016
28	NIKA	1.658	AG	47	.9455	.0633	-.0072	-.0016
28	NIKA	1.658	CD	48	.9361	.0751	-.0101	-.0012
28	NIKA	1.658	SN	50	.9300	.0837	-.0127	-.0010
28	NIKA	1.658	SB	51	.9274	.0876	-.0144	-.0007
28	NIKA	1.658	CS	55	.9228	.0972	-.0209	.0009
28	NIKA	1.658	BA	56	.9165	.1063	-.0242	.0014

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
28	NIKA	1.658	LA	57	.9199	.1020	-.0220	-.0000
28	NIKA	1.658	CE	58	.9243	.0976	-.0218	-.0000
28	NIKA	1.658	HF	72	.8790	.1540	-.0400	.0070
28	NIKA	1.658	TA	73	.8787	.1549	-.0404	.0068
28	NIKA	1.658	W	74	.8164	.2273	-.0542	.0106
28	NIKA	1.658	RE	75	.8276	.2129	-.0501	.0097
28	NIKA	1.658	PT	78	.8496	.1881	-.0464	.0086
28	NIKA	1.658	AU	79	.8568	.1808	-.0462	.0087
28	NIKA	1.658	PB	82	.8632	.1799	-.0537	.0106
28	NIKA	1.658	TH	90	.8625	.1946	-.0714	.0144
28	NIKA	1.658	U	92	.8617	.1985	-.0754	.0153
28	NILA	14.564	B	5	1.0038	-.0575	.1121	-.0589
28	NILA	14.564	C	6	1.1757	-.2874	.2075	-.0964
28	NILA	14.564	N	7	1.3510	-.5410	.3292	-.1400
28	NILA	14.564	O	8	1.5636	-.8329	.4577	-.1896
28	NILA	14.564	F	9	1.7739	-1.1359	.6272	-.2664
28	NILA	14.564	NA	11	.8798	.1901	-.1162	.0468
28	NILA	14.564	MG	12	.9323	.1108	-.0651	.0223
28	NILA	14.564	AL	13	.9662	.0495	-.0228	.0072
28	NILA	14.564	SI	14	1.0327	-.0285	-.0040	-.0002
28	NILA	14.564	P	15	1.0758	-.0862	.0156	-.0051
28	NILA	14.564	S	16	1.1546	-.1695	.0218	-.0069
28	NILA	14.564	CL	17	1.2036	-.2254	.0325	-.0107
28	NILA	14.564	K	19	1.3699	-.3893	.0359	-.0165
28	NILA	14.564	CA	20	1.4754	-.4893	.0333	-.0194
28	NILA	14.564	SC	21	1.5291	-.5345	.0381	-.0326
28	NILA	14.564	TI	22	1.6180	-.6113	.0379	-.0445
28	NILA	14.564	V	23	1.7117	-.6895	.0374	-.0594
28	NILA	14.564	CR	24	1.8377	-.8015	.0378	-.0736
28	NILA	14.564	MN	25	1.9439	-.8875	.0387	-.0945
28	NILA	14.564	FE	26	2.0629	-1.0098	.0427	-.1150
28	NILA	14.564	CO	27	2.0570	-.9673	.0243	-.1133
28	NILA	14.564	CU	29	1.0078	-.0063	-.0015	.0000
28	NILA	14.564	ZN	30	1.0399	-.0367	-.0032	-.0000
28	NILA	14.564	GA	31	1.0546	-.0464	-.0081	-.0001
28	NILA	14.564	GE	32	1.0810	-.0678	-.0129	-.0003
28	NILA	14.564	Y	39	1.3078	-.2407	-.0565	-.0106
28	NILA	14.564	ZR	40	1.3440	-.2666	-.0632	-.0142
28	NILA	14.564	NB	41	1.3653	-.2985	-.0680	-.0187
28	NILA	14.564	MO	42	1.4190	-.3180	-.0775	-.0234
28	NILA	14.564	PD	46	1.5776	-.4152	-.1111	-.0511
28	NILA	14.564	AG	47	1.6281	-.4523	-.1140	-.0614
28	NILA	14.564	CD	48	1.6608	-.4585	-.1314	-.0704
28	NILA	14.564	SN	50	1.6097	-.4055	-.1410	-.0628
28	NILA	14.564	SB	51	1.5094	-.3298	-.1351	-.0443

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
28	NILA	14.564	CS	55	1.5606	-.3400	-.1624	-.0578
28	NILA	14.564	BA	56	1.5920	-.3448	-.1809	-.0659
28	NILA	14.564	LA	57	1.1291	-.0456	-.0867	.0032
28	NILA	14.564	CE	58	1.0180	.0317	-.0580	.0083
28	NILA	14.564	HF	72	1.1530	-.0157	-.1498	.0126
28	NILA	14.564	TA	73	1.1632	-.0191	-.1566	.0127
28	NILA	14.564	W	74	1.1721	-.0201	-.1648	.0130
28	NILA	14.564	RE	75	1.1827	-.0238	-.1716	.0129
28	NILA	14.564	PT	76	1.2100	-.0252	-.1983	.0137
28	NILA	14.564	AU	79	1.2227	-.0311	-.2044	.0132
28	NILA	14.564	PB	82	1.2495	-.0252	-.2382	.0144
28	NILA	14.564	TH	90	1.3521	-.0226	-.3398	.0112
28	NILA	14.564	U	92	1.3856	-.0227	-.3702	.0082
29	CUKA	1.541	B	5	1.1039	-.0905	-.0103	-.0032
29	CUKA	1.541	C	6	1.1389	-.1201	-.0132	-.0056
29	CUKA	1.541	N	7	1.1313	-.1143	-.0116	-.0054
29	CUKA	1.541	O	8	1.1245	-.1083	-.0128	-.0034
29	CUKA	1.541	F	9	1.0878	-.0757	-.0133	.0012
29	CUKA	1.541	NA	11	1.0824	-.0728	-.0102	.0005
29	CUKA	1.541	MG	12	1.0947	-.0841	-.0112	.0006
29	CUKA	1.541	AL	13	1.0774	-.0700	-.0078	.0005
29	CUKA	1.541	SI	14	1.0920	-.0830	-.0093	.0003
29	CUKA	1.541	P	15	1.0732	-.0683	-.0041	-.0008
29	CUKA	1.541	S	16	1.0864	-.0809	-.0037	-.0018
29	CUKA	1.541	CL	17	1.0624	-.0595	-.0021	-.0008
29	CUKA	1.541	K	19	1.0651	-.0629	-.0004	-.0018
29	CUKA	1.541	CA	20	1.0776	-.0738	-.0034	-.0004
29	CUKA	1.541	SC	21	1.0414	-.0406	-.0007	-.0001
29	CUKA	1.541	TI	22	1.0316	-.0314	-.0001	-.0001
29	CUKA	1.541	V	23	1.0222	-.0223	.0002	-.0001
29	CUKA	1.541	CR	24	1.0330	-.0330	.0000	-.0001
29	CUKA	1.541	MN	25	1.0254	-.0255	.0002	-.0000
29	CUKA	1.541	FE	26	1.0371	-.0371	.0000	-.0000
29	CUKA	1.541	CO	27	1.0289	-.0289	.0000	-.0000
29	CUKA	1.541	NI	28	1.0238	-.0234	-.0004	-.0000
29	CUKA	1.541	ZN	30	.9644	.1066	-.1263	.0557
29	CUKA	1.541	GA	31	.8267	.4047	-.3922	.1619
29	CUKA	1.541	GE	32	.8776	.2661	-.2417	.0986
29	CUKA	1.541	Y	39	.9694	.0333	-.0027	-.0000
29	CUKA	1.541	ZR	40	.9685	.0342	-.0022	-.0005
29	CUKA	1.541	NB	41	.9709	.0315	-.0015	-.0009
29	CUKA	1.541	MO	42	.9664	.0364	-.0018	-.0011
29	CUKA	1.541	PD	46	.9585	.0464	-.0039	-.0010
29	CUKA	1.541	AG	47	.9618	.0430	-.0039	-.0008
29	CUKA	1.541	CD	48	.9519	.0548	-.0061	-.0006

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
29	CUKA	1.541	SN	50	.9449	.0639	-.0089	.0000
29	CUKA	1.541	SB	51	.9420	.0679	-.0101	.0002
29	CUKA	1.541	CS	55	.9358	.0780	-.0149	.0012
29	CUKA	1.541	BA	56	.9289	.0871	-.0176	.0016
29	CUKA	1.541	LA	57	.9319	.0842	-.0176	.0016
29	CUKA	1.541	CE	58	.9359	.0799	-.0173	.0015
29	CUKA	1.541	HF	72	.8943	.1310	-.0310	.0057
29	CUKA	1.541	TA	73	.8939	.1320	-.0318	.0059
29	CUKA	1.541	W	74	.8925	.1344	-.0330	.0061
29	CUKA	1.541	RE	75	.8924	.1354	-.0346	.0068
29	CUKA	1.541	PT	78	.8472	.1864	-.0418	.0062
29	CUKA	1.541	AU	79	.8578	.1739	-.0395	.0078
29	CUKA	1.541	PB	82	.8716	.1624	-.0429	.0090
29	CUKA	1.541	TH	90	.8732	.1714	-.0545	.0100
29	CUKA	1.541	U	92	.8717	.1757	-.0585	.0111
29	CULA	13.322	B	5	1.0015	-.0249	.0674	-.0443
29	CULA	13.322	C	6	1.1489	-.2171	.1416	-.0739
29	CULA	13.322	N	7	1.2930	-.4261	.2379	-.1053
29	CULA	13.322	O	8	1.4691	-.6670	.3369	-.1398
29	CULA	13.322	F	9	1.6384	-.9134	.4689	-.1949
29	CULA	13.322	NA	11	.8918	.2032	-.1565	.0622
29	CULA	13.322	MG	12	.9381	.1315	-.1070	.0379
29	CULA	13.322	AL	13	.9661	.0691	-.0511	.0161
29	CULA	13.322	SI	14	1.0253	-.0046	-.0256	.0050
29	CULA	13.322	P	15	1.0597	-.0573	-.0012	-.0012
29	CULA	13.322	S	16	1.1287	-.1324	.0074	-.0037
29	CULA	13.322	CL	17	1.1671	-.1809	.0202	-.0064
29	CULA	13.322	K	19	1.3091	-.3256	.0256	-.0092
29	CULA	13.322	CA	20	1.4010	-.4143	.0231	-.0098
29	CULA	13.322	SC	21	1.4413	-.4515	.0291	-.0189
29	CULA	13.322	TI	22	1.5156	-.5180	.0290	-.0265
29	CULA	13.322	V	23	1.5940	-.5855	.0282	-.0366
29	CULA	13.322	CR	24	1.7031	-.6839	.0263	-.0454
29	CULA	13.322	MN	25	1.7923	-.7579	.0262	-.0603
29	CULA	13.322	FE	26	1.9128	-.8650	.0267	-.0740
29	CULA	13.322	CO	27	2.0091	-.9420	.0286	-.0951
29	CULA	13.322	NI	28	2.0134	-.9427	.0154	-.0855
29	CULA	13.322	ZN	30	1.0279	-.0276	-.0002	-.0000
29	CULA	13.322	GA	31	1.0382	-.0359	-.0023	-.0000
29	CULA	13.322	GE	32	1.0602	-.0554	-.0047	-.0001
29	CULA	13.322	Y	39	1.2551	-.2143	-.0352	-.0056
29	CULA	13.322	ZR	40	1.2867	-.2388	-.0398	-.0080
29	CULA	13.322	NB	41	1.3232	-.2689	-.0432	-.0110
29	CULA	13.322	MO	42	1.3521	-.2875	-.0503	-.0142
29	CULA	13.322	PD	46	1.4899	-.3792	-.0770	-.0335

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
29	CULA	13.322	AG	47	1.5346	-.4138	-.0798	-.0408
29	CULA	13.322	CD	48	1.5618	-.4202	-.0938	-.0475
29	CULA	13.322	SN	50	1.5167	-.3738	-.1006	-.0422
29	CULA	13.322	SB	51	1.5543	-.3940	-.1100	-.0500
29	CULA	13.322	CS	55	1.4735	-.3178	-.1167	-.0388
29	CULA	13.322	BA	56	1.5000	-.3232	-.1319	-.0447
29	CULA	13.322	LA	57	1.5412	-.3516	-.1360	-.0533
29	CULA	13.322	CE	58	1.5850	-.3835	-.1380	-.0631
29	CULA	13.322	HF	72	1.1287	-.0311	-.1075	.0101
29	CULA	13.322	TA	73	1.1379	-.0351	-.1128	.0102
29	CULA	13.322	W	74	1.1458	-.0369	-.1192	.0104
29	CULA	13.322	RE	75	1.1555	-.0413	-.1245	.0104
29	CULA	13.322	PT	78	1.1798	-.0453	-.1453	.0109
29	CULA	13.322	AU	79	1.1914	-.0520	-.1498	.0105
29	CULA	13.322	PB	82	1.2152	-.0497	-.1767	.0114
29	CULA	13.322	TH	90	1.3079	-.0589	-.2565	.0080
29	CULA	13.322	U	92	1.3384	-.0629	-.2800	.0051
30	ZNKA	1.435	B	5	1.1087	-.0966	-.0080	-.0042
30	ZNKA	1.435	C	6	1.1436	-.1261	-.0108	-.0068
30	ZNKA	1.435	N	7	1.1357	-.1187	-.0130	-.0040
30	ZNKA	1.435	O	8	1.1285	-.1129	-.0112	-.0044
30	ZNKA	1.435	F	9	1.0912	-.0772	-.0180	.0041
30	ZNKA	1.435	NA	11	1.0855	-.0756	-.0120	.0021
30	ZNKA	1.435	MG	12	1.0975	-.0870	-.0114	.0010
30	ZNKA	1.435	AL	13	1.0797	-.0727	-.0080	.0011
30	ZNKA	1.435	SI	14	1.0940	-.0868	-.0061	-.0010
30	ZNKA	1.435	P	15	1.0746	-.0712	-.0007	-.0026
30	ZNKA	1.435	S	16	1.0873	-.0839	.0012	-.0046
30	ZNKA	1.435	CL	17	1.0628	-.0644	.0094	-.0079
30	ZNKA	1.435	K	19	1.0640	-.0633	.0047	-.0055
30	ZNKA	1.435	CA	20	1.0751	-.0677	-.0094	.0020
30	ZNKA	1.435	SC	21	1.0386	-.0341	-.0085	.0040
30	ZNKA	1.435	TI	22	1.0289	-.0285	-.0002	-.0001
30	ZNKA	1.435	V	23	1.0187	-.0188	.0002	-.0001
30	ZNKA	1.435	CR	24	1.0288	-.0287	-.0001	-.0001
30	ZNKA	1.435	MN	25	1.0205	-.0206	.0001	-.0000
30	ZNKA	1.435	FE	26	1.0314	-.0314	-.0000	-.0000
30	ZNKA	1.435	CO	27	1.0225	-.0226	.0001	-.0000
30	ZNKA	1.435	NI	28	1.0428	-.0427	-.0001	-.0000
30	ZNKA	1.435	CU	29	.9990	.0010	.0000	.0000
30	ZNKA	1.435	GA	31	.9460	.1240	-.1241	.0545
30	ZNKA	1.435	GE	32	.8253	.3985	-.3794	.1567
30	ZNKA	1.435	Y	39	.9652	.0351	.0039	-.0044
30	ZNKA	1.435	ZR	40	.9644	.0340	.0083	-.0068
30	ZNKA	1.435	NB	41	.9666	.0311	.0092	-.0070

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
30	ZNKA	1.435	MO	42	.9619	.0365	.0078	-.0063
30	ZNKA	1.435	PD	46	.9527	.0502	-.0014	-.0015
30	ZNKA	1.435	AG	47	.9556	.0482	-.0042	.0005
30	ZNKA	1.435	CD	48	.9454	.0602	-.0061	.0007
30	ZNKA	1.435	SN	50	.9378	.0704	-.0095	.0014
30	ZNKA	1.435	SB	51	.9345	.0754	-.0130	.0032
30	ZNKA	1.435	CS	55	.9270	.0864	-.0166	.0032
30	ZNKA	1.435	BA	56	.9198	.0964	-.0215	.0054
30	ZNKA	1.435	LA	57	.9225	.0938	-.0215	.0054
30	ZNKA	1.435	CE	58	.9261	.0899	-.0211	.0052
30	ZNKA	1.435	HF	72	.8878	.1375	-.0325	.0072
30	ZNKA	1.435	TA	73	.8874	.1383	-.0330	.0073
30	ZNKA	1.435	W	74	.8858	.1406	-.0341	.0075
30	ZNKA	1.435	RE	75	.8856	.1411	-.0331	.0064
30	ZNKA	1.435	PT	78	.8808	.1493	-.0386	.0084
30	ZNKA	1.435	AU	79	.8323	.2041	-.0472	.0108
30	ZNKA	1.435	PB	82	.8568	.1764	-.0419	.0086
30	ZNKA	1.435	TH	90	.8633	.1799	-.0545	.0113
30	ZNKA	1.435	U	92	.8613	.1843	-.0576	.0120
30	ZNLA	12.232	B	5	.9839	.0074	.0426	-.0340
30	ZNLA	12.232	C	6	1.1086	-.1518	.1018	-.0591
30	ZNLA	12.232	N	7	1.2250	-.3216	.1802	-.0841
30	ZNLA	12.232	O	8	1.3683	-.5180	.2600	-.1110
30	ZNLA	12.232	F	9	1.5016	-.7149	.3653	-.1528
30	ZNLA	12.232	NA	11	.9088	.1263	-.0380	.0030
30	ZNLA	12.232	MG	12	.9260	.1636	-.1463	.0573
30	ZNLA	12.232	AL	13	.9491	.0996	-.0757	.0273
30	ZNLA	12.232	SI	14	1.0015	.0294	-.0423	.0115
30	ZNLA	12.232	P	15	1.0284	-.0182	-.0127	.0025
30	ZNLA	12.232	S	16	1.0881	-.0851	-.0014	-.0016
30	ZNLA	12.232	CL	17	1.1171	-.1256	.0131	-.0046
30	ZNLA	12.232	K	19	1.2364	-.2498	.0203	-.0069
30	ZNLA	12.232	CA	20	1.3151	-.3269	.0187	-.0069
30	ZNLA	12.232	SC	21	1.3437	-.3547	.0241	-.0130
30	ZNLA	12.232	TI	22	1.4046	-.4100	.0235	-.0181
30	ZNLA	12.232	V	23	1.4689	-.4660	.0220	-.0249
30	ZNLA	12.232	CR	24	1.5621	-.5506	.0191	-.0305
30	ZNLA	12.232	MN	25	1.6358	-.6119	.0172	-.0410
30	ZNLA	12.232	FE	26	1.7388	-.7038	.0157	-.0504
30	ZNLA	12.232	CO	27	1.8183	-.7670	.0150	-.0659
30	ZNLA	12.232	NI	28	1.9435	-.8815	.0163	-.0778
30	ZNLA	12.232	CU	29	1.8750	-.8002	.0017	-.0761
30	ZNLA	12.232	GA	31	1.0064	-.0056	-.0008	.0000
30	ZNLA	12.232	GE	32	1.0243	-.0219	-.0025	.0000
30	ZNLA	12.232	Y	39	1.1878	-.1576	-.0282	-.0019

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
30	ZNLA	12.232	ZR	40	1.2148	-.1795	-.0317	-.0036
30	ZNLA	12.232	NB	41	1.2465	-.2065	-.0344	-.0056
30	ZNLA	12.232	MO	42	1.2708	-.2228	-.0404	-.0076
30	ZNLA	12.232	PD	46	1.3882	-.3031	-.0649	-.0202
30	ZNLA	12.232	AG	47	1.4271	-.3338	-.0681	-.0251
30	ZNLA	12.232	CD	48	1.4492	-.3384	-.0811	-.0296
30	ZNLA	12.232	SN	50	1.5132	-.3723	-.0991	-.0416
30	ZNLA	12.232	SB	51	1.5476	-.3905	-.1081	-.0488
30	ZNLA	12.232	CS	55	1.4578	-.3084	-.1132	-.0361
30	ZNLA	12.232	BA	56	1.3942	-.2533	-.1142	-.0265
30	ZNLA	12.232	LA	57	1.4300	-.2785	-.1187	-.0325
30	ZNLA	12.232	CE	58	1.4682	-.3068	-.1217	-.0394
30	ZNLA	12.232	HF	72	1.0856	-.0046	-.0918	.0108
30	ZNLA	12.232	TA	73	1.0937	-.0083	-.0964	.0110
30	ZNLA	12.232	W	74	1.1006	-.0100	-.1020	.0114
30	ZNLA	12.232	RE	75	1.1092	-.0141	-.1065	.0116
30	ZNLA	12.232	PT	78	1.1304	-.0180	-.1249	.0127
30	ZNLA	12.232	AU	79	1.1408	-.0243	-.1289	.0126
30	ZNLA	12.232	PB	82	1.1613	-.0226	-.1526	.0140
30	ZNLA	12.232	TH	90	1.2429	-.0334	-.2223	.0132
30	ZNLA	12.232	U	92	1.2698	-.0379	-.2429	.0113
31	GAKA	1.340	B	5	1.1351	-.1206	-.0111	-.0034
31	GAKA	1.340	C	6	1.1706	-.1503	-.0133	-.0070
31	GAKA	1.340	N	7	1.1622	-.1430	-.0129	-.0063
31	GAKA	1.340	O	8	1.1544	-.1353	-.0157	-.0035
31	GAKA	1.340	F	9	1.1156	-.0972	-.0233	.0050
31	GAKA	1.340	NA	11	1.1087	-.0868	-.0327	.0132
31	GAKA	1.340	MG	12	1.1210	-.1028	-.0271	.0093
31	GAKA	1.340	AL	13	1.1032	-.0939	-.0110	.0020
31	GAKA	1.340	SI	14	1.1173	-.1079	-.0094	.0002
31	GAKA	1.340	P	15	1.0971	-.0931	-.0004	-.0034
31	GAKA	1.340	S	16	1.1096	-.1066	.0049	-.0078
31	GAKA	1.340	CL	17	1.0842	-.0882	.0177	-.0138
31	GAKA	1.340	K	19	1.0842	-.0870	.0175	-.0149
31	GAKA	1.340	CA	20	1.0945	-.0877	-.0027	-.0042
31	GAKA	1.340	SC	21	1.0564	-.0505	-.0071	.0011
31	GAKA	1.340	TI	22	1.0454	-.0382	-.0124	.0053
31	GAKA	1.340	V	23	1.0349	-.0291	-.0116	.0059
31	GAKA	1.340	CR	24	1.0454	-.0444	-.0009	-.0001
31	GAKA	1.340	MN	25	1.0363	-.0359	-.0004	-.0001
31	GAKA	1.340	FE	26	1.0467	-.0460	-.0006	-.0001
31	GAKA	1.340	CO	27	1.0370	-.0368	-.0002	-.0000
31	GAKA	1.340	NI	28	1.0568	-.0561	-.0007	-.0000
31	GAKA	1.340	CU	29	1.0330	-.0329	-.0000	-.0000
31	GAKA	1.340	ZN	30	1.0179	-.0177	-.0002	-.0000

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
31	GAKA	1.340	GE	32	.9548	.1193	-.1314	.0577
31	GAKA	1.340	Y	39	.9795	.0195	.0066	-.0057
31	GAKA	1.340	ZR	40	.9781	.0195	.0095	-.0073
31	GAKA	1.340	NB	41	.9801	.0165	.0114	-.0080
31	GAKA	1.340	MO	42	.9754	.0185	.0170	-.0110
31	GAKA	1.340	PD	46	.9655	.0309	.0095	-.0058
31	GAKA	1.340	AG	47	.9681	.0302	.0033	-.0014
31	GAKA	1.340	CD	48	.9575	.0437	-.0017	.0007
31	GAKA	1.340	SN	50	.9491	.0551	-.0065	.0026
31	GAKA	1.340	SB	51	.9455	.0605	-.0111	.0053
31	GAKA	1.340	CS	55	.9366	.0740	-.0177	.0073
31	GAKA	1.340	BA	56	.9291	.0832	-.0195	.0074
31	GAKA	1.340	LA	57	.9313	.0822	-.0234	.0101
31	GAKA	1.340	CE	58	.9347	.0791	-.0236	.0101
31	GAKA	1.340	HF	72	.8979	.1253	-.0348	.0116
31	GAKA	1.340	TA	73	.8972	.1265	-.0352	.0116
31	GAKA	1.340	W	74	.8954	.1290	-.0361	.0117
31	GAKA	1.340	RE	75	.8953	.1276	-.0318	.0089
31	GAKA	1.340	PT	78	.8900	.1350	-.0332	.0082
31	GAKA	1.340	AU	79	.8909	.1340	-.0331	.0082
31	GAKA	1.340	PB	82	.8523	.1782	-.0392	.0086
31	GAKA	1.340	TH	90	.8701	.1657	-.0459	.0100
31	GAKA	1.340	U	92	.8676	.1703	-.0486	.0106
31	GALA	11.270	B	5	.9902	.0188	.0179	-.0271
31	GALA	11.270	C	6	1.0995	-.1165	.0650	-.0482
31	GALA	11.270	N	7	1.1954	-.2578	.1292	-.0672
31	GALA	11.270	O	8	1.3146	-.4220	.1935	-.0866
31	GALA	11.270	F	9	1.4213	-.5837	.2786	-.1168
31	GALA	11.270	NA	11	1.7556	-.9910	.4048	-.1701
31	GALA	11.270	MG	12	.9347	.1782	-.1848	.0727
31	GALA	11.270	AL	13	.9524	.1212	-.1172	.0442
31	GALA	11.270	SI	14	1.0009	.0490	-.0708	.0212
31	GALA	11.270	P	15	1.0226	.0014	-.0318	.0078
31	GALA	11.270	S	16	1.0761	-.0616	-.0159	.0014
31	GALA	11.270	CL	17	1.0979	-.0978	.0020	-.0022
31	GALA	11.270	K	19	1.2007	-.2089	.0124	-.0043
31	GALA	11.270	CA	20	1.2701	-.2779	.0117	-.0039
31	GALA	11.270	SC	21	1.2895	-.3003	.0186	-.0078
31	GALA	11.270	TI	22	1.3404	-.3486	.0190	-.0109
31	GALA	11.270	V	23	1.3943	-.3973	.0182	-.0151
31	GALA	11.270	CR	24	1.4760	-.4727	.0149	-.0182
31	GALA	11.270	MN	25	1.5382	-.5260	.0131	-.0252
31	GALA	11.270	FE	26	1.6286	-.6079	.0102	-.0308
31	GALA	11.270	CO	27	1.6957	-.6626	.0088	-.0418
31	GALA	11.270	NI	28	1.8068	-.7649	.0074	-.0490

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
31	GALA	11.270	CU	29	1.7448	-.6937	-.0020	-.0490
31	GALA	11.270	ZN	30	1.8220	-.7583	-.0033	-.0602
31	GALA	11.270	GE	32	1.0147	-.0144	-.0003	-.0000
31	GALA	11.270	Y	39	1.1537	-.1344	-.0197	.0005
31	GALA	11.270	ZR	40	1.1774	-.155[illegible]	-.0211	-.0010
31	GALA	11.270	NB	41	1.2056	-.1808	-.0223	-.0025
31	GALA	11.270	MO	42	1.2265	-.1963	-.0262	-.0040
31	GALA	11.270	PD	46	1.3288	-.2717	-.0444	-.0126
31	GALA	11.270	AG	47	1.3634	-.3003	-.0470	-.0159
31	GALA	11.270	CD	48	1.3815	-.3048	-.0576	-.0191
31	GALA	11.270	SN	50	1.4370	-.3366	-.0727	-.0276
31	GALA	11.270	SB	51	1.4668	-.3535	-.0804	-.0327
31	GALA	11.270	CS	55	1.4994	-.3602	-.0976	-.0413
31	GALA	11.270	BA	56	1.4087	-.2853	-.0956	-.0277
31	GALA	11.270	LA	57	1.3629	-.2540	-.0875	-.0213
31	GALA	11.270	CE	58	1.3970	-.2805	-.0902	-.0262
31	GALA	11.270	HF	72	1.0687	-.0101	-.0673	.0087
31	GALA	11.270	TA	73	1.0760	-.0140	-.0709	.0089
31	GALA	11.270	W	74	1.0821	-.0159	-.0754	.0093
31	GALA	11.270	RE	75	1.0898	-.0202	-.0790	.0094
31	GALA	11.270	PT	78	1.1085	-.0250	-.0939	.0105
31	GALA	11.270	AU	79	1.1181	-.0314	-.0970	.0104
31	GALA	11.270	PB	82	1.1359	-.0312	-.1164	.0118
31	GALA	11.270	TH	90	1.2088	-.0464	-.1741	.0119
31	GALA	11.270	U	92	1.2331	-.0524	-.1909	.0105
32	GEKA	1.254	B	5	1.1486	-.1289	-.0242	.0046
32	GEKA	1.254	C	6	1.1855	-.1682	-.0069	-.0106
32	GEKA	1.254	N	7	1.1766	-.1612	-.0029	-.0127
32	GEKA	1.254	O	8	1.1682	-.1497	-.0136	-.0049
32	GEKA	1.254	F	9	1.1280	-.1060	-.0327	.0109
32	GEKA	1.254	NA	11	1.1198	-.0919	-.0510	.0237
32	GEKA	1.254	MG	12	1.1319	-.1048	-.0495	.0231
32	GEKA	1.254	AL	13	1.1143	-.1004	-.0246	.0113
32	GEKA	1.254	SI	14	1.1291	-.1195	-.0121	.0030
32	GEKA	1.254	P	15	1.1082	-.1043	-.0035	.0001
32	GEKA	1.254	S	16	1.1207	-.1236	.0167	-.0136
32	GEKA	1.254	CL	17	1.0944	-.1037	.0290	-.0197
32	GEKA	1.254	K	19	1.0932	-.1032	.0348	-.0251
32	GEKA	1.254	CA	20	1.1025	-.0998	.0095	-.0123
32	GEKA	1.254	SC	21	1.0638	-.0640	.0104	-.0104
32	GEKA	1.254	TI	22	1.0519	-.0494	.0032	-.0058
32	GEKA	1.254	V	23	1.0403	-.0366	-.0016	-.0022
32	GEKA	1.254	CR	24	1.0494	-.0409	-.0135	.0050
32	GEKA	1.254	MN	25	1.0404	-.0316	-.0180	.0094
32	GEKA	1.254	FE	26	1.0516	-.0505	-.0010	-.0001

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p0	p1	p2	p3
32	GEKA	1.254	CO	27	1.0413	-.0407	-.0005	-.0000
32	GEKA	1.254	NI	28	1.0605	-.0593	-.0012	-.0001
32	GEKA	1.254	CU	29	1.0359	-.0356	-.0002	-.0000
32	GEKA	1.254	ZN	30	1.0372	-.0370	-.0002	-.0000
32	GEKA	1.254	GA	31	1.0065	-.0065	-.0000	-.0000
32	GEKA	1.254	Y	39	.9831	.0124	.0153	-.0110
32	GEKA	1.254	ZR	40	.9816	.0112	.0196	-.0125
32	GEKA	1.254	NB	41	.9833	.0093	.0183	-.0110
32	GEKA	1.254	MO	42	.9779	.0153	.0174	-.0106
32	GEKA	1.254	PD	46	.9675	.0233	.0198	-.0105
32	GEKA	1.254	AG	47	.9701	.0221	.0139	-.0060
32	GEKA	1.254	CD	48	.9593	.0352	.0095	-.0038
32	GEKA	1.254	SN	50	.9504	.0475	.0028	-.0004
32	GEKA	1.254	SB	51	.9464	.0562	-.0093	.0071
32	GEKA	1.254	CS	55	.9363	.0730	-.0216	.0127
32	GEKA	1.254	BA	56	.9285	.0824	-.0232	.0128
32	GEKA	1.254	LA	57	.9304	.0825	-.0291	.0167
32	GEKA	1.254	CE	58	.9334	.0808	-.0321	.0183
32	GEKA	1.254	HF	72	.9039	.1258	-.0534	.0238
32	GEKA	1.254	TA	73	.8961	.1326	-.0522	.0236
32	GEKA	1.254	W	74	.8942	.1335	-.0465	.0207
32	GEKA	1.254	RE	75	.8937	.1343	-.0485	.0206
32	GEKA	1.254	PT	78	.8885	.1384	-.0426	.0156
32	GEKA	1.254	AU	79	.8892	.1359	-.0377	.0124
32	GEKA	1.254	PB	82	.8813	.1456	-.0389	.0118
32	GEKA	1.254	TH	90	.8670	.1649	-.0414	.0093
32	GEKA	1.254	U	92	.8643	.1679	-.0408	.0084
32	GELA	10.416	B	5	.9902	.0288	.0030	-.0221
32	GELA	10.416	C	6	1.0859	-.0864	.0408	-.0405
32	GELA	10.416	N	7	1.1644	-.2032	.0942	-.0557
32	GELA	10.416	O	8	1.2628	-.3398	.1473	-.0707
32	GELA	10.416	F	9	1.3467	-.4716	.2175	-.0931
32	GELA	10.416	NA	11	1.6273	-.8127	.3173	-.1325
32	GELA	10.416	MG	12	.9323	.2139	-.2493	.1043
32	GELA	10.416	AL	13	.9475	.1514	-.1648	.0666
32	GELA	10.416	SI	14	.9930	.0752	-.1026	.0348
32	GELA	10.416	P	15	1.0107	.0257	-.0514	.0151
32	GELA	10.416	S	16	1.0589	-.0348	-.0293	.0052
32	GELA	10.416	CL	17	1.0749	-.0675	-.0074	.0001
32	GELA	10.416	K	19	1.1631	-.1666	.0066	-.0032
32	GELA	10.416	CA	20	1.2240	-.2281	.0070	-.0028
32	GELA	10.416	SC	21	1.2356	-.2449	.0147	-.0054
32	GELA	10.416	TI	22	1.2777	-.2862	.0159	-.0073
32	GELA	10.416	V	23	1.3223	-.3278	.0156	-.0100
32	GELA	10.416	CR	24	1.3936	-.3945	.0125	-.0116

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
32	GELA	10.416	MN	25	1.4457	-.4402	.0107	-.0162
32	GELA	10.416	FE	26	1.5247	-.5126	.0075	-.0195
32	GELA	10.416	CO	27	1.5810	-.5592	.0054	-.0271
32	GELA	10.416	NI	28	1.6793	-.6504	.0026	-.0314
32	GELA	10.416	CU	29	1.7205	-.6765	.0014	-.0452
32	GELA	10.416	ZN	30	1.6899	-.6437	-.0063	-.0396
32	GELA	10.416	GA	31	1.7322	-.6696	-.0105	-.0518
32	GELA	10.416	Y	39	1.1161	-.1007	-.0181	.0028
32	GELA	10.416	ZR	40	1.1368	-.1204	-.0176	.0012
32	GELA	10.416	NB	41	1.1618	-.1442	-.0175	-.0001
32	GELA	10.416	MO	42	1.1796	-.1584	-.0198	-.0014
32	GELA	10.416	PD	46	1.2680	-.2273	-.0334	-.0074
32	GELA	10.416	AG	47	1.2986	-.2534	-.0356	-.0096
32	GELA	10.416	CD	48	1.3132	-.2570	-.0445	-.0117
32	GELA	10.416	SN	50	1.3608	-.2855	-.0578	-.0174
32	GELA	10.416	SB	51	1.3864	-.3007	-.0647	-.0210
32	GELA	10.416	CS	55	1.4143	-.3073	-.0800	-.0269
32	GELA	10.416	BA	56	1.4354	-.3124	-.0917	-.0311
32	GELA	10.416	LA	57	1.3655	-.2635	-.0807	-.0212
32	GELA	10.416	CE	58	1.3988	-.2897	-.0831	-.0258
32	GELA	10.416	HF	72	1.0455	.0010	-.0543	.0078
32	GELA	10.416	TA	73	1.0520	-.0027	-.0573	.0081
32	GELA	10.416	W	74	1.0572	-.0045	-.0611	.0084
32	GELA	10.416	RE	75	1.0641	-.0086	-.0641	.0086
32	GELA	10.416	PT	78	1.0804	-.0133	-.0768	.0098
32	GELA	10.416	AU	79	1.0890	-.0194	-.0793	.0098
32	GELA	10.416	PB	82	1.1043	-.0195	-.0960	.0113
32	GELA	10.416	TH	90	1.1686	-.0351	-.1460	.0127
32	GELA	10.416	U	92	1.1901	-.0411	-.1609	.0121
39	YLA	6.448	B	5	1.0157	.0224	-.0281	-.0100
39	YLA	6.448	C	6	1.0670	-.0264	-.0207	-.0199
39	YLA	6.448	N	7	1.0856	-.0590	-.0028	-.0239
39	YLA	6.448	O	8	1.1115	-.0990	.0152	-.0277
39	YLA	6.448	F	9	1.1145	-.1258	.0412	-.0300
39	YLA	6.448	NA	11	1.2027	-.2372	.0718	-.0375
39	YLA	6.448	MG	12	1.2757	-.3170	.0814	-.0404
39	YLA	6.448	AL	13	1.3167	-.3705	.0985	-.0449
39	YLA	6.448	SI	14	1.3976	-.4528	.1002	-.0452
39	YLA	6.448	P	15	1.0109	.0143	-.0226	-.0026
39	YLA	6.448	S	16	.9880	.1628	-.2603	.1107
39	YLA	6.448	CL	17	.9881	.1168	-.1803	.0761
39	YLA	6.448	K	19	1.0354	.0088	-.0659	.0219
39	YLA	6.448	CA	20	1.0681	-.0364	-.0419	.0103
39	YLA	6.448	SC	21	1.0534	-.0407	-.0164	.0038
39	YLA	6.448	TI	22	1.0636	-.0586	-.0057	.0007

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
39	YLA	6.448	V	23	1.0742	-.0740	.0008	-.0010
39	YLA	6.448	CR	24	1.1062	-.1067	.0021	-.0016
39	YLA	6.448	MN	25	1.1201	-.1224	.0044	-.0021
39	YLA	6.448	FE	26	1.1552	-.1570	.0037	-.0019
39	YLA	6.448	CO	27	1.1702	-.1722	.0044	-.0023
39	YLA	6.448	NI	28	1.2184	-.2188	.0021	-.0018
39	YLA	6.448	CU	29	1.2193	-.2189	.0027	-.0030
39	YLA	6.448	ZN	30	1.2499	-.2475	.0010	-.0034
39	YLA	6.448	GA	31	1.2595	-.2537	-.0008	-.0051
39	YLA	6.448	GE	32	1.2837	-.2739	-.0034	-.0065
39	YLA	6.448	ZR	40	1.0066	-.0066	-.0000	-.0000
39	YLA	6.448	NB	41	.9909	.0482	-.0661	.0271
39	YLA	6.448	MO	42	.9982	.0323	-.0504	.0200
39	YLA	6.448	PD	46	1.0338	-.0165	-.0253	.0080
39	YLA	6.448	AG	47	1.0491	-.0345	-.0203	.0057
39	YLA	6.448	CD	48	1.0504	-.0363	-.0179	.0039
39	YLA	6.448	SN	50	1.0668	-.0520	-.0164	.0016
39	YLA	6.448	SB	51	1.0759	-.0598	-.0171	.0009
39	YLA	6.448	CS	55	1.1203	-.0946	-.0247	-.0009
39	YLA	6.448	BA	56	1.1258	-.0948	-.0298	-.0012
39	YLA	6.448	LA	57	1.1430	-.1097	-.0314	-.0019
39	YLA	6.448	CE	58	1.1620	-.1266	-.0327	-.0027
39	YLA	6.448	HF	72	1.1950	-.1279	-.0625	-.0046
39	YLA	6.448	TA	73	1.2081	-.1363	-.0662	-.0056
39	YLA	6.448	W	74	1.2200	-.1427	-.0706	-.0066
39	YLA	6.448	RE	75	1.0371	-.0043	-.0360	.0032
39	YLA	6.448	PT	78	.9641	.0594	-.0263	.0048
39	YLA	6.448	AU	79	.9686	.0556	-.0292	.0049
39	YLA	6.448	PB	82	.9718	.0585	-.0364	.0061
39	YLA	6.448	TH	90	.9947	.0540	-.0581	.0094
39	YLA	6.448	U	92	1.0031	.0513	-.0646	.0102
40	ZRLA	6.072	B	5	1.0215	.0172	-.0290	-.0097
40	ZRLA	6.072	C	6	1.0702	-.0277	-.0234	-.0191
40	ZRLA	6.072	N	7	1.0852	-.0551	-.0077	-.0225
40	ZRLA	6.072	O	8	1.1063	-.0888	.0080	-.0256
40	ZRLA	6.072	F	9	1.1040	-.1087	.0313	-.0268
40	ZRLA	6.072	NA	11	1.1793	-.2045	.0581	-.0330
40	ZRLA	6.072	MG	12	1.2440	-.2750	.0664	-.0355
40	ZRLA	6.072	AL	13	1.2773	-.3203	.0816	-.0388
40	ZRLA	6.072	SI	14	1.3496	-.3938	.0830	-.0369
40	ZRLA	6.072	P	15	1.0146	.0097	-.0203	-.0040
40	ZRLA	6.072	S	16	.9781	.2108	-.3344	.1470
40	ZRLA	6.072	CL	17	.9789	.1557	-.2372	.1037
40	ZRLA	6.072	K	19	1.0266	.0315	-.0906	.0328
40	ZRLA	6.072	CA	20	1.0584	-.0171	-.0579	.0168

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
40	ZRLA	6.072	SC	21	1.0429	-.0244	-.0256	.0073
40	ZRLA	6.072	TI	22	1.0515	-.0427	-.0113	.0025
40	ZRLA	6.072	V	23	1.0600	-.0574	-.0028	.0002
40	ZRLA	6.072	CR	24	1.0895	-.0880	-.0005	-.0009
40	ZRLA	6.072	MN	25	1.1007	-.1019	.0027	-.0015
40	ZRLA	6.072	FE	26	1.1328	-.1336	.0023	-.0015
40	ZRLA	6.072	CO	27	1.1448	-.1466	.0036	-.0018
40	ZRLA	6.072	NI	28	1.1893	-.1896	.0016	-.0013
40	ZRLA	6.072	CU	29	1.1872	-.1878	.0028	-.0022
40	ZRLA	6.072	ZN	30	1.2143	-.2135	.0015	-.0023
40	ZRLA	6.072	GA	31	1.2207	-.2176	.0004	-.0035
40	ZRLA	6.072	GE	32	1.2413	-.2352	-.0016	-.0044
40	ZRLA	6.072	Y	39	.9944	.0057	-.0000	.0000
40	ZRLA	6.072	NB	41	1.0093	-.0093	-.0000	-.0000
40	ZRLA	6.072	MO	42	.9913	.0307	-.0347	.0128
40	ZRLA	6.072	PD	46	1.0169	.0047	-.0334	.0118
40	ZRLA	6.072	AG	47	1.0313	-.0136	-.0262	.0086
40	ZRLA	6.072	CD	48	1.0319	-.0164	-.0215	.0059
40	ZRLA	6.072	SN	50	1.0464	-.0324	-.0168	.0028
40	ZRLA	6.072	SB	51	1.0544	-.0400	-.0162	.0019
40	ZRLA	6.072	CS	55	1.0935	-.0727	-.0206	-.0001
40	ZRLA	6.072	BA	56	1.0976	-.0725	-.0248	-.0003
40	ZRLA	6.072	LA	57	1.1132	-.0864	-.0260	-.0008
40	ZRLA	6.072	CE	58	1.1305	-.1021	-.0270	-.0014
40	ZRLA	6.072	HF	72	1.1582	-.1026	-.0533	-.0023
40	ZRLA	6.072	TA	73	1.1697	-.1102	-.0565	-.0030
40	ZRLA	6.072	W	74	1.1802	-.1160	-.0606	-.0036
40	ZRLA	6.072	RE	75	1.1926	-.1243	-.0638	-.0044
40	ZRLA	6.072	PT	78	.9566	.0644	-.0253	.0042
40	ZRLA	6.072	AU	79	.9607	.0609	-.0260	.0044
40	ZRLA	6.072	PB	82	.9628	.0643	-.0326	.0055
40	ZRLA	6.072	TH	90	.9820	.0615	-.0520	.0086
40	ZRLA	6.072	U	92	.9893	.0593	-.0579	.0094
41	NBLA	5.727	B	5	1.0239	.0140	-.0288	-.0091
41	NBLA	5.727	C	6	1.0704	-.0277	-.0246	-.0181
41	NBLA	5.727	N	7	1.0821	-.0505	-.0107	-.0210
41	NBLA	5.727	O	8	1.0993	-.0789	.0030	-.0235
41	NBLA	5.727	F	9	1.0925	-.0926	.0240	-.0239
41	NBLA	5.727	NA	11	1.1566	-.1750	.0475	-.0292
41	NBLA	5.727	MG	12	1.2139	-.2372	.0547	-.0316
41	NBLA	5.727	AL	13	1.2407	-.2752	.0686	-.0342
41	NBLA	5.727	SI	14	1.3053	-.3409	.0697	-.0343
41	NBLA	5.727	P	15	1.3406	-.3860	.0840	-.0387
41	NBLA	5.727	S	16	1.0340	-.0066	-.0243	-.0030
41	NBLA	5.727	CL	17	.9717	.1734	-.2567	.1127

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
41	NBLA	5.727	K	19	1.0145	.0607	-.1227	.0480
41	NBLA	5.727	CA	20	1.0460	.0068	-.0787	.0261
41	NBLA	5.727	SC	21	1.0303	-.0052	-.0372	.0122
41	NBLA	5.727	TI	22	1.0378	-.0249	-.0181	.0053
41	NBLA	5.727	V	23	1.0448	-.0396	-.0069	.0017
41	NBLA	5.727	CR	24	1.0721	-.0689	-.0032	-.0001
41	NBLA	5.727	MN	25	1.0812	-.0812	.0010	-.0010
41	NBLA	5.727	FE	26	1.1106	-.1106	.0013	-.0013
41	NBLA	5.727	CO	27	1.1200	-.1215	.0029	-.0015
41	NBLA	5.727	NI	28	1.1613	-.1613	.0012	-.0012
41	NBLA	5.727	CU	29	1.1567	-.1577	.0028	-.0017
41	NBLA	5.727	ZN	30	1.1805	-.1806	.0019	-.0017
41	NBLA	5.727	GA	31	1.1841	-.1828	.0012	-.0026
41	NBLA	5.727	GE	32	1.2015	-.1979	-.0003	-.0033
41	NBLA	5.727	Y	39	1.3157	-.2920	-.0152	-.0085
41	NBLA	5.727	ZR	40	.9916	.0084	-.0000	.0000
41	NBLA	5.727	MO	42	1.0015	-.0014	-.0001	.0000
41	NBLA	5.727	PD	46	.9981	.0306	-.0459	.0173
41	NBLA	5.727	AG	47	1.0119	.0112	-.0359	.0129
41	NBLA	5.727	CD	48	1.0122	.0071	-.0282	.0091
41	NBLA	5.727	SN	50	1.0252	-.0100	-.0196	.0045
41	NBLA	5.727	SB	51	1.0323	-.0177	-.0177	.0031
41	NBLA	5.727	CS	55	1.0669	-.0490	-.0185	.0006
41	NBLA	5.727	BA	56	1.0699	-.0485	-.0219	.0004
41	NBLA	5.727	LA	57	1.0841	-.0613	-.0228	.0000
41	NBLA	5.727	CE	58	1.0998	-.0759	-.0235	-.0004
41	NBLA	5.727	HF	72	1.1609	-.1040	-.0543	-.0026
41	NBLA	5.727	TA	73	1.1724	-.1116	-.0575	-.0033
41	NBLA	5.727	W	74	1.1421	-.0871	-.0536	-.0013
41	NBLA	5.727	RE	75	1.1531	-.0946	-.0565	-.0019
41	NBLA	5.727	PT	78	1.0176	.0145	-.0356	.0036
41	NBLA	5.727	AU	79	.9510	.0693	-.0243	.0040
41	NBLA	5.727	PB	82	.9521	.0733	-.0305	.0051
41	NBLA	5.727	TH	90	.9679	.0725	-.0485	.0081
41	NBLA	5.727	U	92	.9741	.0709	-.0539	.0089
42	MOLA	5.410	B	5	1.0336	.0062	-.0301	-.0096
42	MOLA	5.410	C	6	1.0785	-.0330	-.0270	-.0184
42	MOLA	5.410	N	7	1.0877	-.0522	-.0148	-.0207
42	MOLA	5.410	O	8	1.1017	-.0762	-.0028	-.0227
42	MOLA	5.410	F	9	1.0909	-.0851	.0162	-.0220
42	MOLA	5.410	NA	11	1.1459	-.1566	.0370	-.0263
42	MOLA	5.410	MG	12	1.1974	-.2121	.0431	-.0285
42	MOLA	5.410	AL	13	1.2186	-.2443	.0557	-.0301
42	MOLA	5.410	SI	14	1.2770	-.3036	.0566	-.0302
42	MOLA	5.410	P	15	1.3055	-.3419	.0694	-.0332

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
42	MOLA	5.410	S	16	1.0414	-.0146	-.0212	-.0057
42	MOLA	5.410	CL	17	.9639	.2244	-.3391	.1524
42	MOLA	5.410	K	19	1.0088	.0917	-.1687	.0689
42	MOLA	5.410	CA	20	1.0409	.0296	-.1095	.0393
42	MOLA	5.410	SC	21	1.0258	.0099	-.0547	.0192
42	MOLA	5.410	TI	22	1.0328	-.0130	-.0288	.0091
42	MOLA	5.410	V	23	1.0389	-.0291	-.0135	.0038
42	MOLA	5.410	CR	24	1.0647	-.0581	-.0077	.0011
42	MOLA	5.410	MN	25	1.0721	-.0698	-.0021	-.0002
42	MOLA	5.410	FE	26	1.0995	-.0977	-.0009	-.0009
42	MOLA	5.410	CO	27	1.1069	-.1072	.0014	-.0011
42	MOLA	5.410	NI	28	1.1456	-.1446	-.0001	-.0010
42	MOLA	5.410	CU	29	1.1388	-.1397	.0022	-.0013
42	MOLA	5.410	ZN	30	1.1600	-.1605	.0018	-.0013
42	MOLA	5.410	GA	31	1.1612	-.1612	.0019	-.0018
42	MOLA	5.410	GE	32	1.1759	-.1745	.0009	-.0023
42	MOLA	5.410	Y	39	1.2760	-.2593	-.0111	-.0057
42	MOLA	5.410	ZR	40	1.1951	-.1855	-.0074	-.0022
42	MOLA	5.410	NB	41	.9993	.0008	-.0001	-.0000
42	MOLA	5.410	PD	46	.9910	.0381	-.0467	.0176
42	MOLA	5.410	AG	47	1.0007	.0303	-.0502	.0192
42	MOLA	5.410	CD	48	1.0009	.0238	-.0383	.0137
42	MOLA	5.410	SN	50	1.0131	.0041	-.0241	.0070
42	MOLA	5.410	SB	51	1.0196	-.0044	-.0202	.0049
42	MOLA	5.410	CS	55	1.0511	-.0363	-.0159	.0011
42	MOLA	5.410	BA	56	1.0531	-.0358	-.0181	.0008
42	MOLA	5.410	LA	57	1.0662	-.0481	-.0185	.0004
42	MOLA	5.410	CE	58	1.0807	-.0620	-.0187	.0000
42	MOLA	5.410	HF	72	1.1339	-.0880	-.0445	-.0014
42	MOLA	5.410	TA	73	1.1441	-.0950	-.0473	-.0018
42	MOLA	5.410	W	74	1.1533	-.1001	-.0509	-.0023
42	MOLA	5.410	RE	75	1.1267	-.0794	-.0465	-.0009
42	MOLA	5.410	PT	78	1.1524	-.0933	-.0572	-.0019
42	MOLA	5.410	AU	79	1.0150	.0129	-.0308	.0030
42	MOLA	5.410	PB	82	.9495	.0724	-.0262	.0043
42	MOLA	5.410	TH	90	.9623	.0728	-.0421	.0070
42	MOLA	5.410	U	92	.9675	.0716	-.0468	.0077
46	PDLA	4.371	B	5	1.0617	-.0186	-.0317	-.0113
46	PDLA	4.371	C	6	1.1024	-.0510	-.0320	-.0194
46	PDLA	4.371	N	7	1.1045	-.0601	-.0244	-.0199
46	PDLA	4.371	O	8	1.1096	-.0723	-.0169	-.0205
46	PDLA	4.371	F	9	1.0880	-.0673	-.0034	-.0173
46	PDLA	4.371	NA	11	1.1174	-.1081	.0100	-.0194
46	PDLA	4.371	MG	12	1.1523	-.1444	.0132	-.0212
46	PDLA	4.371	AL	13	1.1576	-.1592	.0223	-.0208

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p0	p1	p2	p3
46	PDLA	4.371	SI	14	1.1983	-.1996	.0226	-.0214
46	PDLA	4.371	P	15	1.2072	-.2178	.0320	-.0215
46	PDLA	4.371	S	16	1.2504	-.2604	.0311	-.0212
46	PDLA	4.371	CL	17	1.2566	-.2755	.0408	-.0221
46	PDLA	4.371	K	19	.9919	.1685	-.2730	.1137
46	PDLA	4.371	CA	20	1.0026	.1915	-.3391	.1464
46	PDLA	4.371	SC	21	.9965	.1159	-.1937	.0820
46	PDLA	4.371	TI	22	1.0070	.0622	-.1151	.0463
46	PDLA	4.371	V	23	1.0141	.0269	-.0658	.0250
46	PDLA	4.371	CR	24	1.0381	-.0102	-.0409	.0131
46	PDLA	4.371	MN	25	1.0427	-.0267	-.0222	.0062
46	PDLA	4.371	FE	26	1.0655	-.0536	-.0144	.0025
46	PDLA	4.371	CO	27	1.0678	-.0613	-.0072	.0007
46	PDLA	4.371	NI	28	1.0997	-.0927	-.0067	-.0003
46	PDLA	4.371	CU	29	1.0869	-.0847	-.0017	-.0005
46	PDLA	4.371	ZN	30	1.1007	-.0992	-.0009	-.0006
46	PDLA	4.371	GA	31	1.0949	-.0954	.0013	-.0008
46	PDLA	4.371	GE	32	1.1019	-.1027	.0018	-.0009
46	PDLA	4.371	Y	39	1.1934	-.1880	-.0033	-.0021
46	PDLA	4.371	ZR	40	1.2051	-.1982	-.0046	-.0023
46	PDLA	4.371	NB	41	1.2245	-.2160	-.0059	-.0027
46	PDLA	4.371	MO	42	1.1964	-.1887	-.0057	-.0020
46	PDLA	4.371	AG	47	1.0071	-.0071	.0000	-.0000
46	PDLA	4.371	CD	48	1.0005	-.0003	-.0002	.0000
46	PDLA	4.371	SN	50	.9695	.0671	-.0585	.0220
46	PDLA	4.371	SB	51	.9753	.0536	-.0449	.0161
46	PDLA	4.371	CS	55	.9977	.0192	-.0234	.0067
46	PDLA	4.371	BA	56	.9980	.0170	-.0197	.0047
46	PDLA	4.371	LA	57	1.0083	.0048	-.0164	.0033
46	PDLA	4.371	CE	58	1.0198	-.0081	-.0139	.0023
46	PDLA	4.371	HF	72	1.1119	-.0796	-.0315	-.0068
46	PDLA	4.371	TA	73	1.1205	-.0858	-.0336	-.0011
46	PDLA	4.371	W	74	1.0988	-.0671	-.0312	-.0004
46	PDLA	4.371	RE	75	1.1071	-.0733	-.0331	-.0006
46	PDLA	4.371	PT	76	1.0878	-.0538	-.0342	.0002
46	PDLA	4.371	AU	79	1.0971	-.0614	-.0356	-.0001
46	PDLA	4.371	PB	82	1.0838	-.0448	-.0398	.0008
46	PDLA	4.371	TH	90	.9423	.0807	-.0274	.0043
46	PDLA	4.371	U	92	.9446	.0811	-.0305	.0048
47	AGLA	4.157	B	5	1.0628	-.0210	-.0307	-.0110
47	AGLA	4.157	C	6	1.1026	-.0522	-.0317	-.0187
47	AGLA	4.157	N	7	1.1035	-.0595	-.0249	-.0191
47	AGLA	4.157	O	8	1.1071	-.0695	-.0182	-.0194
47	AGLA	4.157	F	9	1.0837	-.0622	-.0054	-.0161
47	AGLA	4.157	NA	11	1.1087	-.0974	.0066	-.0179

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
47	AGLA	4.157	MG	12	1.1406	-.1302	.0091	-.0197
47	AGLA	4.157	AL	13	1.1431	-.1417	.0176	-.0191
47	AGLA	4.157	SI	14	1.1805	-.1786	.0180	-.0200
47	AGLA	4.157	P	15	1.1859	-.1930	.0268	-.0198
47	AGLA	4.157	S	16	1.2254	-.2318	.0260	-.0197
47	AGLA	4.157	CL	17	1.2281	-.2431	.0348	-.0200
47	AGLA	4.157	K	19	1.0459	-.0111	-.0441	.0094
47	AGLA	4.157	CA	20	.9948	.2052	-.3487	.1502
47	AGLA	4.157	SC	21	.9825	.1572	-.2461	.1074
47	AGLA	4.157	TI	22	.9950	.0924	-.1495	.0626
47	AGLA	4.157	V	23	1.0032	.0493	-.0871	.0348
47	AGLA	4.157	CR	24	1.0275	.0079	-.0545	.0192
47	AGLA	4.157	MN	25	1.0324	-.0119	-.0300	.0096
47	AGLA	4.157	FE	26	1.0546	-.0399	-.0191	.0044
47	AGLA	4.157	CO	27	1.0564	-.0483	-.0097	.0017
47	AGLA	4.157	NI	28	1.0872	-.0791	-.0082	.0001
47	AGLA	4.157	CU	29	1.0735	-.0708	-.0024	-.0003
47	AGLA	4.157	ZN	30	1.0861	-.0844	-.0010	-.0007
47	AGLA	4.157	GA	31	1.0792	-.0797	.0014	-.0009
47	AGLA	4.157	GE	32	1.0847	-.0857	.0021	-.0011
47	AGLA	4.157	Y	39	1.1644	-.1607	-.0021	-.0016
47	AGLA	4.157	ZR	40	1.1747	-.1697	-.0032	-.0017
47	AGLA	4.157	NB	41	1.1921	-.1859	-.0043	-.0020
47	AGLA	4.157	MO	42	1.2017	-.1932	-.0060	-.0025
47	AGLA	4.157	PD	46	.9934	.0066	.0000	.0000
47	AGLA	4.157	CD	48	.9930	.0072	-.0002	.0000
47	AGLA	4.157	SN	50	.9644	.0601	-.0370	.0125
47	AGLA	4.157	SB	51	.9604	.0768	-.0590	.0219
47	AGLA	4.157	CS	55	.9822	.0385	-.0301	.0094
47	AGLA	4.157	BA	56	.9825	.0352	-.0244	.0067
47	AGLA	4.157	LA	57	.9925	.0225	-.0198	.0048
47	AGLA	4.157	CE	58	1.0035	.0094	-.0164	.0035
47	AGLA	4.157	HF	72	1.0860	-.0576	-.0283	-.0000
47	AGLA	4.157	TA	73	1.0936	-.0633	-.0300	-.0003
47	AGLA	4.157	W	74	1.1001	-.0672	-.0325	-.0004
47	AGLA	4.157	RE	75	1.1085	-.0733	-.0345	-.0007
47	AGLA	4.157	PT	78	1.0640	-.0338	-.0311	.0008
47	AGLA	4.157	AU	79	1.0724	-.0407	-.0323	.0006
47	AGLA	4.157	PB	82	1.0599	-.0249	-.0364	.0015
47	AGLA	4.157	TH	90	.9344	.0880	-.0266	.0042
47	AGLA	4.157	U	92	.9361	.0888	-.0296	.0047
48	CDLA	3.959	B	5	1.0786	-.0326	-.0329	-.0130
48	CDLA	3.959	C	6	1.1183	-.0631	-.0340	-.0210
48	CDLA	3.959	N	7	1.1181	-.0691	-.0281	-.0209
48	CDLA	3.959	O	8	1.1205	-.0775	-.0220	-.0209

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
48	CDLA	3.959	F	9	1.0952	-.0683	-.0102	-.0168
48	CDLA	3.959	NA	11	1.1166	-.0992	.0003	-.0178
48	CDLA	3.959	MG	12	1.1464	-.1295	.0027	-.0196
48	CDLA	3.959	AL	13	1.1465	-.1386	.0108	-.0187
48	CDLA	3.959	SI	14	1.1814	-.1729	.0111	-.0197
48	CDLA	3.959	P	15	1.1839	-.1844	.0193	-.0189
48	CDLA	3.959	S	16	1.2207	-.2204	.0184	-.0188
48	CDLA	3.959	CL	17	1.2202	-.2289	.0271	-.0184
48	CDLA	3.959	K	19	1.0586	-.0219	-.0431	.0066
48	CDLA	3.959	CA	20	1.0092	.1718	-.3032	.1233
48	CDLA	3.959	SC	21	.9786	.2058	-.3279	.1450
48	CDLA	3.959	TI	22	.9943	.1240	-.2045	.0870
48	CDLA	3.959	V	23	1.0049	.0684	-.1226	.0498
48	CDLA	3.959	CR	24	1.0305	.0194	-.0781	.0284
48	CDLA	3.959	MN	25	1.0362	-.0062	-.0446	.0147
48	CDLA	3.959	FE	26	1.0588	-.0372	-.0287	.0072
48	CDLA	3.959	CO	27	1.0604	-.0477	-.0158	.0031
48	CDLA	3.959	NI	28	1.0909	-.0788	-.0127	.0006
48	CDLA	3.959	CU	29	1.0765	-.0711	-.0052	-.0001
48	CDLA	3.959	ZN	30	1.0882	-.0843	-.0032	-.0007
48	CDLA	3.959	GA	31	1.0802	-.0793	-.0000	-.0009
48	CDLA	3.959	GE	32	1.0846	-.0848	.0012	-.0011
48	CDLA	3.959	Y	39	1.1549	-.1530	-.0009	-.0010
48	CDLA	3.959	ZR	40	1.1641	-.1614	-.0016	-.0011
48	CDLA	3.959	NB	41	1.1800	-.1764	-.0024	-.0012
48	CDLA	3.959	MO	42	1.1881	-.1830	-.0036	-.0015
48	CDLA	3.959	PD	46	1.0013	-.0012	-.0002	-.0000
48	CDLA	3.959	AG	47	1.0076	-.0074	-.0002	-.0000
48	CDLA	3.959	SN	50	.9986	.0016	-.0002	.0000
48	CDLA	3.959	SB	51	.9682	.0578	-.0393	.0134
48	CDLA	3.959	CS	55	.9801	.0465	-.0407	.0141
48	CDLA	3.959	BA	56	.9807	.0408	-.0315	.0100
48	CDLA	3.959	LA	57	.9907	.0267	-.0248	.0073
48	CDLA	3.959	CE	58	1.0017	.0125	-.0195	.0053
48	CDLA	3.959	HF	72	1.0778	-.0568	-.0209	-.0002
48	CDLA	3.959	TA	73	1.0847	-.0620	-.0224	-.0003
48	CDLA	3.959	W	74	1.0905	-.0657	-.0244	-.0004
48	CDLA	3.959	RE	75	1.0981	-.0716	-.0259	-.0006
48	CDLA	3.959	PT	78	1.0900	-.0613	-.0285	-.0003
48	CDLA	3.959	AU	79	1.0652	-.0412	-.0243	.0003
48	CDLA	3.959	PB	82	1.0775	-.0459	-.0321	.0005
48	CDLA	3.959	TH	90	.9402	.0780	-.0215	.0033
48	CDLA	3.959	U	92	.9414	.0789	-.0240	.0037
50	SNLA	3.601	B	5	1.0960	-.0468	-.0342	-.0149
50	SNLA	3.601	C	6	1.1351	-.0761	-.0359	-.0230

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
50	SNLA	3.601	N	7	1.1333	-.0798	-.0307	-.0227
50	SNLA	3.601	O	8	1.1335	-.0855	-.0259	-.0222
50	SNLA	3.601	F	9	1.1054	-.0727	-.0158	-.0169
50	SNLA	3.601	NA	11	1.1207	-.0961	-.0074	-.0172
50	SNLA	3.601	MG	12	1.1467	-.1220	-.0056	-.0192
50	SNLA	3.601	AL	13	1.1427	-.1267	.0015	-.0176
50	SNLA	3.601	SI	14	1.1734	-.1563	.0019	-.0190
50	SNLA	3.601	P	15	1.1709	-.1626	.0091	-.0174
50	SNLA	3.601	S	16	1.2027	-.1934	.0085	-.0178
50	SNLA	3.601	CL	17	1.1967	-.1967	.0164	-.0165
50	SNLA	3.601	K	19	1.0755	-.0490	-.0203	-.0062
50	SNLA	3.601	CA	20	1.0839	-.0367	-.0565	.0094
50	SNLA	3.601	SC	21	.9860	.1847	-.2915	.1219
50	SNLA	3.601	TI	22	.9757	.2186	-.3462	.1533
50	SNLA	3.601	V	23	.9922	.1332	-.2175	.0930
50	SNLA	3.601	CR	24	1.0215	.0649	-.1421	.0562
50	SNLA	3.601	MN	25	1.0302	.0233	-.0843	.0310
50	SNLA	3.601	FE	26	1.0541	-.0165	-.0542	.0167
50	SNLA	3.601	CO	27	1.0564	-.0334	-.0311	.0082
50	SNLA	3.601	NI	28	1.0865	-.0670	-.0226	.0031
50	SNLA	3.601	CU	29	1.0715	-.0614	-.0110	.0010
50	SNLA	3.601	ZN	30	1.0820	-.0744	-.0074	-.0002
50	SNLA	3.601	GA	31	1.0725	-.0692	-.0026	-.0007
50	SNLA	3.601	GE	32	1.0751	-.0735	-.0006	-.0010
50	SNLA	3.601	Y	39	1.1289	-.1282	.0000	-.0007
50	SNLA	3.601	ZR	40	1.1361	-.1351	-.0005	-.0005
50	SNLA	3.601	NB	41	1.1492	-.1477	-.0010	-.0005
50	SNLA	3.601	MO	42	1.1546	-.1525	-.0016	-.0005
50	SNLA	3.601	PD	46	1.1593	-.1552	-.0033	-.0008
50	SNLA	3.601	AG	47	1.1172	-.1155	-.0014	-.0002
50	SNLA	3.601	CD	48	1.0030	-.0028	-.0002	-.0000
50	SNLA	3.601	SB	51	.9993	.0008	-.0000	.0000
50	SNLA	3.601	CS	55	.9683	.0662	-.0536	.0192
50	SNLA	3.601	BA	56	.9692	.0576	-.0405	.0138
50	SNLA	3.601	LA	57	.9752	.0539	-.0446	.0156
50	SNLA	3.601	CE	58	.9865	.0366	-.0347	.0116
50	SNLA	3.601	HF	72	1.0538	-.0406	-.0130	-.0002
50	SNLA	3.601	TA	73	1.0595	-.0451	-.0141	-.0002
50	SNLA	3.601	W	74	1.0639	-.0481	-.0155	-.0003
50	SNLA	3.601	RE	75	1.0701	-.0532	-.0165	-.0004
50	SNLA	3.601	PT	78	1.0846	-.0622	-.0218	-.0005
50	SNLA	3.601	AU	79	1.0703	-.0505	-.0196	-.0002
50	SNLA	3.601	PB	82	1.0516	-.0302	-.0219	.0005
50	SNLA	3.601	TH	90	.9812	.0382	-.0219	.0025
50	SNLA	3.601	U	92	.9413	.0746	-.0187	.0028

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
51	SBLA	3.440	B	5	1.1040	-.0533	-.0349	-.0157
51	SBLA	3.440	C	6	1.1429	-.0821	-.0368	-.0240
51	SBLA	3.440	N	7	1.1404	-.0850	-.0319	-.0235
51	SBLA	3.440	O	8	1.1398	-.0895	-.0274	-.0228
51	SBLA	3.440	F	9	1.1105	-.0753	-.0181	-.0170
51	SBLA	3.440	NA	11	1.1233	-.0957	-.0105	-.0171
51	SBLA	3.440	MG	12	1.1477	-.1196	-.0090	-.0191
51	SBLA	3.440	AL	13	1.1421	-.1224	-.0027	-.0170
51	SBLA	3.440	SI	14	1.1710	-.1500	-.0026	-.0185
51	SBLA	3.440	P	15	1.1665	-.1544	.0050	-.0171
51	SBLA	3.440	S	16	1.1962	-.1830	.0043	-.0175
51	SBLA	3.440	CL	17	1.1880	-.1840	.0117	-.0157
51	SBLA	3.440	K	19	1.0811	-.0533	-.0211	-.0067
51	SBLA	3.440	CA	20	1.0964	-.0660	-.0234	-.0070
51	SBLA	3.440	SC	21	1.0534	-.0100	-.0612	.0160
51	SBLA	3.440	TI	22	.9741	.2287	-.3581	.1567
51	SBLA	3.440	V	23	.9835	.1749	-.2785	.1212
51	SBLA	3.440	CR	24	1.0152	.0951	-.1852	.0756
51	SBLA	3.440	MN	25	1.0260	.0435	-.1122	.0431
51	SBLA	3.440	FE	26	1.0511	-.0026	-.0723	.0241
51	SBLA	3.440	CO	27	1.0542	-.0244	-.0419	.0122
51	SBLA	3.440	NI	28	1.0846	-.0601	-.0298	.0054
51	SBLA	3.440	CU	29	1.0696	-.0565	-.0151	.0021
51	SBLA	3.440	ZN	30	1.0798	-.0702	-.0097	.0001
51	SBLA	3.440	GA	31	1.0698	-.0651	-.0040	-.0006
51	SBLA	3.440	GE	32	1.0716	-.0692	-.0014	-.0011
51	SBLA	3.440	Y	39	1.1187	-.1182	.0002	-.0007
51	SBLA	3.440	ZR	40	1.1250	-.1244	.0000	-.0006
51	SBLA	3.440	NB	41	1.1370	-.1361	-.0003	-.0006
51	SBLA	3.440	MO	42	1.1412	-.1400	-.0006	-.0006
51	SBLA	3.440	PD	46	1.1444	-.1417	-.0021	-.0005
51	SBLA	3.440	AG	47	1.1554	-.1523	-.0025	-.0006
51	SBLA	3.440	CD	48	1.1025	-.1008	-.0015	-.0002
51	SBLA	3.440	SN	50	1.0011	-.0010	-.0000	-.0000
51	SBLA	3.440	CS	55	.9711	.0511	-.0324	.0103
51	SBLA	3.440	BA	56	.9614	.0733	-.0536	.0191
51	SBLA	3.440	LA	57	.9716	.0557	-.0416	.0142
51	SBLA	3.440	CE	58	.9706	.0514	-.0462	.0163
51	SBLA	3.440	HF	72	1.0440	-.0334	-.0106	-.0000
51	SBLA	3.440	TA	73	1.0491	-.0376	-.0114	-.0001
51	SBLA	3.440	W	74	1.0530	-.0404	-.0125	-.0002
51	SBLA	3.440	RE	75	1.0507	-.0451	-.0133	-.0003
51	SBLA	3.440	PT	78	1.0713	-.0532	-.0177	-.0004
51	SBLA	3.440	AU	79	1.0768	-.0598	-.0185	-.0006
51	SBLA	3.440	PB	82	1.0680	-.0461	-.0218	-.0001

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
51	SBLA	3.440	TH	90	1.0539	-.0244	-.0309	.0014
51	SBLA	3.440	U	92	.9794	.0397	-.0217	.0026
55	CSLA	2.891	B	5	1.1305	-.0758	-.0360	-.0186
55	CSLA	2.891	C	6	1.1688	-.1033	-.0382	-.0271
55	CSLA	2.891	N	7	1.1642	-.1033	-.0351	-.0258
55	CSLA	2.891	O	8	1.1611	-.1044	-.0319	-.0246
55	CSLA	2.891	F	9	1.1282	-.0864	-.0234	-.0184
55	CSLA	2.891	NA	11	1.1337	-.0974	-.0190	-.0172
55	CSLA	2.891	MG	12	1.1535	-.1158	-.0185	-.0191
55	CSLA	2.891	AL	13	1.1429	-.1132	-.0126	-.0170
55	CSLA	2.891	SI	14	1.1665	-.1344	-.0138	-.0183
55	CSLA	2.891	P	15	1.1557	-.1321	-.0078	-.0159
55	CSLA	2.891	S	16	1.1794	-.1540	-.0084	-.0170
55	CSLA	2.891	CL	17	1.1643	-.1482	-.0019	-.0142
55	CSLA	2.891	K	19	1.1901	-.1771	.0001	-.0132
55	CSLA	2.891	CA	20	1.2156	-.2005	-.0027	-.0124
55	CSLA	2.891	SC	21	1.0775	-.0542	-.0184	-.0048
55	CSLA	2.891	TI	22	1.0686	-.0489	-.0160	-.0037
55	CSLA	2.891	V	23	1.0483	-.0014	-.0710	.0244
55	CSLA	2.891	CR	24	.9799	.2438	-.3910	.1688
55	CSLA	2.891	MN	25	.9922	.1853	-.3090	.1327
55	CSLA	2.891	FE	26	1.0262	.0982	-.2069	.0833
55	CSLA	2.891	CO	27	1.0371	.0416	-.1259	.0476
55	CSLA	2.891	NI	28	1.0714	-.0133	-.0846	.0268
55	CSLA	2.891	CU	29	1.0598	-.0269	-.0459	.0131
55	CSLA	2.891	ZN	30	1.0710	-.0482	-.0287	.0060
55	CSLA	2.891	GA	31	1.0609	-.0482	-.0148	.0022
55	CSLA	2.891	GE	32	1.0618	-.0538	-.0080	.0000
55	CSLA	2.891	Y	39	1.0892	-.0875	-.0013	-.0005
55	CSLA	2.891	ZR	40	1.0929	-.0914	-.0010	-.0004
55	CSLA	2.891	NB	41	1.1012	-.0998	-.0011	-.0004
55	CSLA	2.891	MO	42	1.1019	-.1010	-.0007	-.0003
55	CSLA	2.891	PD	46	1.1173	-.1165	-.0006	-.0002
55	CSLA	2.891	AG	47	1.1264	-.1254	-.0008	-.0002
55	CSLA	2.891	CD	48	1.1214	-.1200	-.0011	-.0003
55	CSLA	2.891	SN	50	1.1060	-.1043	-.0014	-.0003
55	CSLA	2.891	SB	51	1.0708	-.0701	-.0006	-.0001
55	CSLA	2.891	BA	56	.9938	.0063	.0002	-.0002
55	CSLA	2.891	LA	57	.9981	.0019	.0002	-.0002
55	CSLA	2.891	CE	58	1.0037	-.0037	.0002	-.0002
55	CSLA	2.891	HF	72	1.0121	-.0068	-.0054	.0001
55	CSLA	2.891	TA	73	1.0160	-.0106	-.0053	-.0001
55	CSLA	2.891	W	74	1.0186	-.0129	-.0056	-.0001
55	CSLA	2.891	RE	75	1.0227	-.0166	-.0059	-.0001
55	CSLA	2.891	PT	78	1.0301	-.0217	-.0084	.0001

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
55	CSLA	2.891	AU	79	1.0355	-.0268	-.0088	.0000
55	CSLA	2.891	PB	82	1.0407	-.0281	-.0127	.0001
55	CSLA	2.891	TH	90	1.0273	-.0086	-.0198	.0011
55	CSLA	2.891	U	92	1.0350	-.0130	-.0233	.0013
56	BALA	2.774	B	5	1.1439	-.0859	-.0370	-.0208
56	BALA	2.774	C	6	1.1824	-.1131	-.0400	-.0292
56	BALA	2.774	N	7	1.1773	-.1126	-.0367	-.0279
56	BALA	2.774	O	8	1.1737	-.1131	-.0340	-.0264
56	BALA	2.774	F	9	1.1399	-.0941	-.0260	-.0197
56	BALA	2.774	NA	11	1.1440	-.1038	-.0220	-.0182
56	BALA	2.774	MG	12	1.1632	-.1215	-.0212	-.0206
56	BALA	2.774	AL	13	1.1515	-.1178	-.0157	-.0180
56	BALA	2.774	SI	14	1.1744	-.1379	-.0174	-.0191
56	BALA	2.774	P	15	1.1624	-.1344	-.0114	-.0166
56	BALA	2.774	S	16	1.1850	-.1553	-.0119	-.0179
56	BALA	2.774	CL	17	1.1666	-.1482	-.0058	-.0146
56	BALA	2.774	K	19	1.1918	-.1746	-.0036	-.0137
56	BALA	2.774	CA	20	1.2160	-.1966	-.0067	-.0127
56	BALA	2.774	SC	21	1.0681	-.0623	-.0201	-.0057
56	BALA	2.774	TI	22	1.0789	-.0567	-.0176	-.0045
56	BALA	2.774	V	23	1.0589	-.0144	-.0627	.0184
56	BALA	2.774	CR	24	.9952	.1970	-.3225	.1314
56	BALA	2.774	MN	25	.9949	.1931	-.3231	.1363
56	BALA	2.774	FE	26	1.0220	.1370	-.2685	.1104
56	BALA	2.774	CO	27	1.0364	.0657	-.1661	.0646
56	BALA	2.774	NI	28	1.0729	.0017	-.1117	.0373
56	BALA	2.774	CU	29	1.0633	-.0202	-.0615	.0187
56	BALA	2.774	ZN	30	1.0755	-.0462	-.0377	.0085
56	BALA	2.774	GA	31	1.0660	-.0490	-.0205	.0035
56	BALA	2.774	GE	32	1.0670	-.0559	-.0117	.0007
56	BALA	2.774	Y	39	1.0915	-.0886	-.0023	-.0006
56	BALA	2.774	ZR	40	1.0946	-.0922	-.0019	-.0005
56	BALA	2.774	NB	41	1.1024	-.1000	-.0019	-.0005
56	BALA	2.774	MO	42	1.1024	-.1007	-.0014	-.0004
56	BALA	2.774	PD	46	1.1151	-.1143	-.0006	-.0002
56	BALA	2.774	AG	47	1.1235	-.1227	-.0007	-.0001
56	BALA	2.774	CD	48	1.1178	-.1170	-.0007	-.0002
56	BALA	2.774	SN	50	1.1030	-.1021	-.0008	-.0001
56	BALA	2.774	SB	51	1.1037	-.1025	-.0010	-.0002
56	BALA	2.774	CS	55	1.0065	-.0065	-.0001	-.0000
56	BALA	2.774	LA	57	1.0041	-.0041	.0000	-.0000
56	BALA	2.774	CE	58	1.0096	-.0098	.0005	-.0002
56	BALA	2.774	HF	72	1.0122	-.0077	-.0046	.0001
56	BALA	2.774	TA	73	1.0160	-.0119	-.0042	-.0000
56	BALA	2.774	W	74	1.0185	-.0143	-.0040	-.0002

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
56	BALA	2.774	RE	75	1.0224	-.0181	-.0042	-.0001
56	BALA	2.774	PT	78	1.0291	-.0233	-.0056	-.0002
56	BALA	2.774	AU	79	1.0342	-.0280	-.0062	-.0000
56	BALA	2.774	PB	82	1.0383	-.0289	-.0094	.0000
56	BALA	2.774	TH	90	1.0246	-.0099	-.0156	.0008
56	BALA	2.774	U	92	1.0312	-.0137	-.0184	.0009
57	LALA	2.664	B	5	1.1452	-.0881	-.0364	-.0206
57	LALA	2.664	C	6	1.1835	-.1152	-.0392	-.0290
57	LALA	2.664	N	7	1.1782	-.1142	-.0363	-.0276
57	LALA	2.664	O	8	1.1741	-.1141	-.0339	-.0261
57	LALA	2.664	F	9	1.1397	-.0939	-.0271	-.0186
57	LALA	2.664	NA	11	1.1428	-.1029	-.0216	-.0183
57	LALA	2.664	MG	12	1.1611	-.1191	-.0221	-.0199
57	LALA	2.664	AL	13	1.1486	-.1145	-.0167	-.0174
57	LALA	2.664	SI	14	1.1706	-.1336	-.0182	-.0188
57	LALA	2.664	P	15	1.1576	-.1289	-.0125	-.0161
57	LALA	2.664	S	16	1.1791	-.1485	-.0133	-.0173
57	LALA	2.664	CL	17	1.1615	-.1402	-.0073	-.0142
57	LALA	2.664	K	19	1.1822	-.1633	-.0064	-.0125
57	LALA	2.664	CA	20	1.2051	-.1841	-.0088	-.0122
57	LALA	2.664	SC	21	1.1753	-.1659	.0003	-.0098
57	LALA	2.664	TI	22	1.0780	-.0562	-.0173	-.0044
57	LALA	2.664	V	23	1.0687	-.0504	-.0148	-.0035
57	LALA	2.664	CR	24	1.0668	-.0114	-.0827	.0275
57	LALA	2.664	MN	25	.9777	.2493	-.3964	.1709
57	LALA	2.664	FE	26	1.0065	.1867	-.3325	.1406
57	LALA	2.664	CO	27	1.0244	.1005	-.2082	.0841
57	LALA	2.664	NI	28	1.0629	.0275	-.1405	.0505
57	LALA	2.664	CU	29	1.0555	-.0033	-.0779	.0259
57	LALA	2.664	ZN	30	1.0686	-.0342	-.0471	.0126
57	LALA	2.664	GA	31	1.0602	-.0405	-.0248	.0052
57	LALA	2.664	GE	32	1.0614	-.0491	-.0136	.0012
57	LALA	2.664	Y	39	1.0833	-.0802	-.0024	-.0006
57	LALA	2.664	ZR	40	1.0859	-.0833	-.0021	-.0006
57	LALA	2.664	NB	41	1.0930	-.0905	-.0020	-.0005
57	LALA	2.664	MO	42	1.0925	-.0906	-.0014	-.0004
57	LALA	2.664	PD	46	1.1025	-.1018	-.0006	-.0002
57	LALA	2.664	AG	47	1.1104	-.1096	-.0007	-.0001
57	LALA	2.664	CD	48	1.1041	-.1034	-.0005	-.0002
57	LALA	2.664	SN	50	1.1065	-.1054	-.0009	-.0002
57	LALA	2.664	SB	51	1.0902	-.0893	-.0007	-.0001
57	LALA	2.664	CS	55	1.0028	-.0027	-.0001	-.0000
57	LALA	2.664	BA	56	.9961	.0039	.0000	.0000
57	LALA	2.664	CE	58	1.0052	-.0052	.0000	-.0000
57	LALA	2.664	HF	72	1.0023	.0031	-.0063	.0009

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
57	LALA	2.664	TA	73	1.0061	-.0013	-.0054	.0006
57	LALA	2.664	W	74	1.0085	-.0040	-.0049	.0003
57	LALA	2.664	RE	75	1.0123	-.0079	-.0046	.0002
57	LALA	2.664	PT	78	1.0183	-.0127	-.0057	.0002
57	LALA	2.664	AU	79	1.0231	-.0174	-.0059	.0001
57	LALA	2.664	PB	82	1.0262	-.0174	-.0092	.0004
57	LALA	2.664	TH	90	1.0124	.0015	-.0150	.0012
57	LALA	2.664	U	92	1.0179	-.0015	-.0177	.0013
58	CELA	2.560	B	5	1.1453	-.0896	-.0354	-.0202
58	CELA	2.560	C	6	1.1834	-.1164	-.0386	-.0283
58	CELA	2.560	N	7	1.1777	-.1149	-.0358	-.0269
58	CELA	2.560	O	8	1.1733	-.1144	-.0332	-.0255
58	CELA	2.560	F	9	1.1385	-.0932	-.0274	-.0178
58	CELA	2.560	NA	11	1.1404	-.1010	-.0218	-.0177
58	CELA	2.560	MG	12	1.1581	-.1165	-.0221	-.0194
58	CELA	2.560	AL	13	1.1449	-.1108	-.0175	-.0165
58	CELA	2.560	SI	14	1.1660	-.1294	-.0178	-.0187
58	CELA	2.560	P	15	1.1521	-.1233	-.0130	-.0157
58	CELA	2.560	S	16	1.1726	-.1416	-.0143	-.0166
58	CELA	2.560	CL	17	1.1541	-.1322	-.0084	-.0136
58	CELA	2.560	K	19	1.1724	-.1528	-.0077	-.0120
58	CELA	2.560	CA	20	1.1941	-.1721	-.0105	-.0115
58	CELA	2.560	SC	21	1.1633	-.1527	-.0017	-.0089
58	CELA	2.560	TI	22	1.0759	-.0549	-.0168	-.0042
58	CELA	2.560	V	23	1.0664	-.0488	-.0142	-.0034
58	CELA	2.560	CR	24	1.0657	-.0180	-.0677	.0201
58	CELA	2.560	MN	25	.9843	.1991	-.3095	.1271
58	CELA	2.560	FE	26	.9998	.1933	-.3302	.1383
58	CELA	2.560	CO	27	1.0102	.1404	-.2566	.1069
58	CELA	2.560	NI	28	1.0510	.0576	-.1742	.0661
58	CELA	2.560	CU	29	1.0462	.0167	-.0975	.0349
58	CELA	2.560	ZN	30	1.0609	-.0200	-.0583	.0175
58	CELA	2.560	GA	31	1.0532	-.0304	-.0303	.0076
58	CELA	2.560	GE	32	1.0550	-.0411	-.0163	.0024
58	CELA	2.560	Y	39	1.0747	-.0716	-.0024	-.0006
58	CELA	2.560	ZR	40	1.0769	-.0743	-.0021	-.0006
58	CELA	2.560	NB	41	1.0834	-.0809	-.0020	-.0005
58	CELA	2.560	MO	42	1.0823	-.0805	-.0014	-.0004
58	CELA	2.560	PD	46	1.0900	-.0893	-.0005	-.0002
58	CELA	2.560	AG	47	1.0974	-.0966	-.0006	-.0002
58	CELA	2.560	CD	48	1.0905	-.0900	-.0003	-.0002
58	CELA	2.560	SN	50	1.0917	-.0909	-.0006	-.0002
58	CELA	2.560	SB	51	1.0921	-.0910	-.0009	-.0002
58	CELA	2.560	CS	55	.9983	.0018	-.0001	-.0000
58	CELA	2.560	BA	56	.9914	.0086	.0000	.0000

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
58	CELA	2.560	LA	57	.9951	.0049	.0000	.0000
58	CELA	2.560	HF	72	.9918	.0150	-.0087	.0019
58	CELA	2.560	TA	73	.9956	.0102	-.0074	.0016
58	CELA	2.560	W	74	.9980	.0073	-.0065	.0012
58	CELA	2.560	RE	75	1.0017	.0032	-.0058	.0009
58	CELA	2.560	PT	78	1.0073	-.0016	-.0065	.0008
58	CELA	2.560	AU	79	1.0118	-.0060	-.0065	.0007
58	CELA	2.560	PB	82	1.0140	-.0054	-.0097	.0010
58	CELA	2.560	TH	90	1.0002	.0132	-.0148	.0014
58	CELA	2.560	U	92	1.0047	.0110	-.0171	.0015
72	HFLA	1.570	B	5	1.2440	-.1773	-.0357	-.0311
72	HFLA	1.570	C	6	1.2833	-.2039	-.0405	-.0390
72	HFLA	1.570	N	7	1.2746	-.1992	-.0383	-.0372
72	HFLA	1.570	O	8	1.2665	-.1917	-.0437	-.0311
72	HFLA	1.570	F	9	1.2253	-.1644	-.0373	-.0235
72	HFLA	1.570	NA	11	1.2190	-.1632	-.0336	-.0222
72	HFLA	1.570	MG	12	1.2325	-.1742	-.0333	-.0251
72	HFLA	1.570	AL	13	1.2128	-.1620	-.0280	-.0227
72	HFLA	1.570	SI	14	1.2290	-.1742	-.0312	-.0235
72	HFLA	1.570	P	15	1.2073	-.1600	-.0275	-.0198
72	HFLA	1.570	S	16	1.2218	-.1719	-.0272	-.0227
72	HFLA	1.570	CL	17	1.1947	-.1530	-.0248	-.0168
72	HFLA	1.570	K	19	1.1970	-.1544	-.0300	-.0126
72	HFLA	1.570	CA	20	1.2104	-.1628	-.0373	-.0163
72	HFLA	1.570	SC	21	1.1698	-.1359	-.0267	-.0072
72	HFLA	1.570	TI	22	1.1590	-.1318	-.0179	-.0093
72	HFLA	1.570	V	23	1.1481	-.1259	-.0129	-.0094
72	HFLA	1.570	CR	24	1.1600	-.1356	-.0152	-.0093
72	HFLA	1.570	MN	25	1.1511	-.1298	-.0133	-.0081
72	HFLA	1.570	FE	26	1.1641	-.1425	-.0114	-.0103
72	HFLA	1.570	CO	27	1.1545	-.1353	-.0112	-.0081
72	HFLA	1.570	NI	28	1.1496	-.1229	-.0161	-.0107
72	HFLA	1.570	CU	29	1.1226	-.1020	-.0128	-.0079
72	HFLA	1.570	ZN	30	1.1238	-.1027	-.0147	-.0065
72	HFLA	1.570	GA	31	1.0879	-.0374	-.0714	.0210
72	HFLA	1.570	GE	32	1.0214	.1330	-.2529	.0991
72	HFLA	1.570	Y	39	1.0865	-.0746	-.0121	.0001
72	HFLA	1.570	ZR	40	1.0854	-.0744	-.0104	-.0005
72	HFLA	1.570	NB	41	1.0879	-.0763	-.0127	.0011
72	HFLA	1.570	MO	42	1.0827	-.0724	-.0116	.0013
72	HFLA	1.570	PD	46	1.0732	-.0657	-.0096	.0021
72	HFLA	1.570	AG	47	1.0768	-.0692	-.0096	.0020
72	HFLA	1.570	CD	48	1.0655	-.0592	-.0097	.0034
72	HFLA	1.570	SN	50	1.0575	-.0530	-.0077	.0032
72	HFLA	1.570	SB	51	1.0541	-.0501	-.0071	.0032

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
72	HFLA	1.570	CS	55	1.0469	-.0462	-.0015	.0009
72	HFLA	1.570	BA	56	1.0391	-.0389	-.0010	.0009
72	HFLA	1.570	LA	57	1.0424	-.0431	.0015	-.0006
72	HFLA	1.570	CE	58	1.0469	-.0485	.0036	-.0020
72	HFLA	1.570	TA	73	.9995	.0005	-.0000	.0000
72	HFLA	1.570	W	74	.9979	.0022	-.0000	.0000
72	HFLA	1.570	RE	75	.9977	.0023	-.0000	.0000
72	HFLA	1.570	PT	78	.9927	.0075	-.0002	.0000
72	HFLA	1.570	AU	79	.9709	.0377	-.0114	.0028
72	HFLA	1.570	PB	82	.9783	.0242	-.0030	.0005
72	HFLA	1.570	TH	90	.9750	.0276	-.0029	.0001
72	HFLA	1.570	U	92	.9733	.0302	-.0036	.0002
73	TALA	1.522	B	5	1.2516	-.1856	-.0335	-.0326
73	TALA	1.522	C	6	1.2910	-.2112	-.0419	-.0379
73	TALA	1.522	N	7	1.2821	-.2055	-.0414	-.0352
73	TALA	1.522	O	8	1.2738	-.1991	-.0432	-.0315
73	TALA	1.522	F	9	1.2319	-.1691	-.0411	-.0217
73	TALA	1.522	NA	11	1.2250	-.1657	-.0408	-.0185
73	TALA	1.522	MG	12	1.2390	-.1818	-.0299	-.0273
73	TALA	1.522	AL	13	1.2189	-.1689	-.0256	-.0245
73	TALA	1.522	SI	14	1.2349	-.1793	-.0328	-.0228
73	TALA	1.522	P	15	1.2129	-.1663	-.0242	-.0225
73	TALA	1.522	S	16	1.2271	-.1767	-.0273	-.0233
73	TALA	1.522	CL	17	1.1995	-.1565	-.0275	-.0156
73	TALA	1.522	K	19	1.2011	-.1575	-.0316	-.0120
73	TALA	1.522	CA	20	1.2143	-.1651	-.0405	-.0087
73	TALA	1.522	SC	21	1.1734	-.1392	-.0267	-.0075
73	TALA	1.522	TI	22	1.1622	-.1349	-.0177	-.0097
73	TALA	1.522	V	23	1.1509	-.1282	-.0130	-.0097
73	TALA	1.522	CR	24	1.1624	-.1381	-.0142	-.0102
73	TALA	1.522	MN	25	1.1532	-.1328	-.0101	-.0104
73	TALA	1.522	FE	26	1.1657	-.1435	-.0115	-.0107
73	TALA	1.522	CO	27	1.1558	-.1377	-.0078	-.0105
73	TALA	1.522	NI	28	1.1538	-.1262	-.0178	-.0099
73	TALA	1.522	CU	29	1.1266	-.1069	-.0103	-.0096
73	TALA	1.522	ZN	30	1.1277	-.1070	-.0131	-.0078
73	TALA	1.522	GA	31	1.0873	-.0272	-.0884	.0283
73	TALA	1.522	GE	32	1.0889	-.0493	-.0525	.0128
73	TALA	1.522	Y	39	1.0884	-.0738	-.0179	.0033
73	TALA	1.522	ZR	40	1.0874	-.0748	-.0151	.0025
73	TALA	1.522	NB	41	1.0898	-.0772	-.0150	.0025
73	TALA	1.522	MO	42	1.0844	-.0731	-.0140	.0026
73	TALA	1.522	PD	46	1.0742	-.0657	-.0121	.0037
73	TALA	1.522	AG	47	1.0776	-.0686	-.0140	.0050
73	TALA	1.522	CD	48	1.0662	-.0589	-.0124	.0051

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
73	TALA	1.522	SN	50	1.0578	-.0518	-.0119	.0060
73	TALA	1.522	SB	51	1.0543	-.0494	-.0095	.0046
73	TALA	1.522	CS	55	1.0463	-.0450	-.0041	.0029
73	TALA	1.522	BA	56	1.0384	-.0387	-.0013	.0017
73	TALA	1.522	LA	57	1.0415	-.0434	.0030	-.0011
73	TALA	1.522	CE	58	1.0458	-.0487	.0058	-.0028
73	TALA	1.522	HF	72	1.0006	-.0006	-.0000	-.0000
73	TALA	1.522	W	74	.9982	.0018	-.0000	.0000
73	TALA	1.522	RE	75	.9980	.0020	-.0000	.0000
73	TALA	1.522	PT	78	.9927	.0075	-.0002	.0000
73	TALA	1.522	AU	79	.9938	.0064	-.0002	.0000
73	TALA	1.522	PB	82	.9758	.0274	-.0040	.0008
73	TALA	1.522	TH	90	.9735	.0290	-.0026	.0001
73	TALA	1.522	U	92	.9715	.0316	-.0033	.0002
73	TAMA	7.250	B	5	1.0370	.0520	-.0277	-.0610
73	TAMA	7.250	C	6	1.0964	-.0075	-.0039	-.0847
73	TAMA	7.250	N	7	1.1247	-.0615	.0296	-.0928
73	TAMA	7.250	O	8	1.1626	-.1272	.0663	-.1018
73	TAMA	7.250	F	9	1.1784	-.1878	.1139	-.1049
73	TAMA	7.250	NA	11	1.3006	-.3665	.1947	-.1295
73	TAMA	7.250	MG	12	1.3965	-.4857	.2328	-.1443
73	TAMA	7.250	AL	13	1.4569	-.5811	.2814	-.1581
73	TAMA	7.250	SI	14	1.0445	.0413	-.0462	-.0394
73	TAMA	7.250	P	15	1.0389	.0325	-.0370	-.0343
73	TAMA	7.250	S	16	1.0659	.0063	-.0341	-.0379
73	TAMA	7.250	CL	17	1.0584	-.0030	-.0232	-.0321
73	TAMA	7.250	K	19	1.0981	-.0532	-.0125	-.0324
73	TAMA	7.250	CA	20	1.1322	-.0877	-.0103	-.0341
73	TAMA	7.250	SC	21	1.1175	-.0943	.0049	-.0281
73	TAMA	7.250	TI	22	1.1313	-.1176	.0131	-.0269
73	TAMA	7.250	V	23	1.1466	-.1419	.0214	-.0261
73	TAMA	7.250	CR	24	1.1856	-.1819	.0230	-.0268
73	TAMA	7.250	MN	25	1.2060	-.2097	.0301	-.0264
73	TAMA	7.250	FE	26	1.2496	-.2536	.0305	-.0265
73	TAMA	7.250	CO	27	1.2720	-.2828	.0373	-.0266
73	TAMA	7.250	NI	28	1.3305	-.3379	.0332	-.0259
73	TAMA	7.250	CU	29	1.3383	-.3560	.0450	-.0274
73	TAMA	7.250	ZN	30	1.3785	-.3975	.0469	-.0279
73	TAMA	7.250	GA	31	1.3960	-.4213	.0563	-.0312
73	TAMA	7.250	GE	32	1.4295	-.4568	.0610	-.0338
73	TAMA	7.250	Y	39	1.0478	-.0336	-.0100	-.0042
73	TAMA	7.250	ZR	40	1.0570	-.0445	-.0086	-.0039
73	TAMA	7.250	NB	41	1.0702	-.0585	-.0079	-.0037
73	TAMA	7.250	MO	42	1.0762	-.0669	-.0059	-.0033
73	TAMA	7.250	PD	46	1.1150	-.1116	-.0013	-.0022

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
73	TAMA	7.250	AG	47	1.1319	-.1287	-.0012	-.0020
73	TAMA	7.250	CD	48	1.1341	-.1328	.0005	-.0018
73	TAMA	7.250	SN	50	1.1543	-.1542	.0016	-.0017
73	TAMA	7.250	SB	51	1.1659	-.1658	.0017	-.0018
73	TAMA	7.250	CS	55	1.2229	-.2199	-.0001	-.0029
73	TAMA	7.250	BA	56	1.2315	-.2268	-.0010	-.0037
73	TAMA	7.250	LA	57	1.2530	-.2466	-.0021	-.0042
73	TAMA	7.250	CE	58	1.2765	-.2684	-.0033	-.0048
73	TAMA	7.250	HF	72	1.0832	-.0809	-.0021	-.0002
73	TAMA	7.250	W	74	.9993	.0017	-.0013	.0003
73	TAMA	7.250	RE	75	1.0003	.0062	-.0101	.0037
73	TAMA	7.250	PT	78	1.0087	-.0041	-.0068	.0021
73	TAMA	7.250	AU	79	1.0145	-.0102	-.0060	.0017
73	TAMA	7.250	PB	82	1.0206	-.0154	-.0067	.0015
73	TAMA	7.250	TH	90	1.0537	-.0424	-.0122	.0008
73	TAMA	7.250	U	92	1.0655	-.0517	-.0143	.0005
74	WLA	1.476	B	5	1.2611	-.1950	-.0323	-.0340
74	WLA	1.476	C	6	1.3007	-.2201	-.0421	-.0385
74	WLA	1.476	N	7	1.2915	-.2153	-.0398	-.0364
74	WLA	1.476	O	8	1.2830	-.2099	-.0375	-.0357
74	WLA	1.476	F	9	1.2406	-.1762	-.0432	-.0212
74	WLA	1.476	NA	11	1.2333	-.1717	-.0453	-.0162
74	WLA	1.476	MG	12	1.2474	-.1900	-.0289	-.0286
74	WLA	1.476	AL	13	1.2269	-.1763	-.0267	-.0241
74	WLA	1.476	SI	14	1.2428	-.1882	-.0290	-.0257
74	WLA	1.476	P	15	1.2203	-.1721	-.0273	-.0211
74	WLA	1.476	S	16	1.2343	-.1841	-.0247	-.0258
74	WLA	1.476	CL	17	1.2059	-.1622	-.0264	-.0176
74	WLA	1.476	K	19	1.2071	-.1623	-.0319	-.0131
74	WLA	1.476	CA	20	1.2199	-.1678	-.0444	-.0076
74	WLA	1.476	SC	21	1.1784	-.1409	-.0328	-.0047
74	WLA	1.476	TI	22	1.1667	-.1354	-.0252	-.0062
74	WLA	1.476	V	23	1.1557	-.1330	-.0118	-.0110
74	WLA	1.476	CR	24	1.1668	-.1420	-.0138	-.0113
74	WLA	1.476	MN	25	1.1572	-.1363	-.0103	-.0108
74	WLA	1.476	FE	26	1.1693	-.1466	-.0118	-.0111
74	WLA	1.476	CO	27	1.1590	-.1404	-.0076	-.0113
74	WLA	1.476	NI	28	1.1818	-.1591	-.0105	-.0123
74	WLA	1.476	CU	29	1.1323	-.1123	-.0097	-.0105
74	WLA	1.476	ZN	30	1.1332	-.1133	-.0102	-.0099
74	WLA	1.476	GA	31	1.0872	-.0134	-.1127	.0391
74	WLA	1.476	GE	32	1.0905	-.0428	-.0670	.0192
74	WLA	1.476	Y	39	1.0916	-.0730	-.0278	.0089
74	WLA	1.476	ZR	40	1.0906	-.0742	-.0236	.0071
74	WLA	1.476	NB	41	1.0933	-.0796	-.0175	.0037

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
74	WLA	1.476	MO	42	1.0878	-.0753	-.0164	.0039
74	WLA	1.476	PD	46	1.0768	-.0665	-.0175	.0072
74	WLA	1.476	AG	47	1.0801	-.0697	-.0175	.0071
74	WLA	1.476	CD	48	1.0685	-.0598	-.0158	.0072
74	WLA	1.476	SN	50	1.0597	-.0524	-.0153	.0082
74	WLA	1.476	SB	51	1.0560	-.0495	-.0149	.0086
74	WLA	1.476	CS	55	1.0474	-.0446	-.0088	.0062
74	WLA	1.476	BA	56	1.0393	-.0390	-.0034	.0033
74	WLA	1.476	LA	57	1.0422	-.0433	-.0003	.0015
74	WLA	1.476	CE	58	1.0464	-.0487	.0031	-.0006
74	WLA	1.476	HF	72	1.0025	-.0025	-.0000	-.0000
74	WLA	1.476	TA	73	1.0019	-.0018	-.0000	-.0000
74	WLA	1.476	RE	75	.9997	.0003	-.0000	.0000
74	WLA	1.476	PT	78	.9941	.0060	-.0001	.0000
74	WLA	1.476	AU	79	.9951	.0051	-.0001	.0000
74	WLA	1.476	PB	82	.9742	.0302	-.0056	.0012
74	WLA	1.476	TH	90	.9735	.0286	-.0022	.0001
74	WLA	1.476	U	92	.9712	.0315	-.0028	.0001
74	WMA	6.984	B	5	1.0437	.0462	-.0289	-.0608
74	WMA	6.984	C	6	1.1010	-.0096	-.0075	-.0837
74	WMA	6.984	N	7	1.1261	-.0583	.0228	-.0905
74	WMA	6.984	O	8	1.1601	-.1179	.0560	-.0983
74	WMA	6.984	F	9	1.1715	-.1714	.0991	-.0994
74	WMA	6.984	NA	11	1.2831	-.3348	.1720	-.1208
74	WMA	6.984	MG	12	1.3722	-.4447	.2060	-.1342
74	WMA	6.984	AL	13	1.4265	-.5315	.2496	-.1453
74	WMA	6.984	SI	14	1.0503	.0358	-.0459	-.0400
74	WMA	6.984	P	15	1.0435	.0287	-.0374	-.0347
74	WMA	6.984	S	16	1.0693	.0040	-.0349	-.0383
74	WMA	6.984	CL	17	1.0603	-.0034	-.0247	-.0322
74	WMA	6.984	K	19	1.0970	-.0496	-.0149	-.0324
74	WMA	6.984	CA	20	1.1292	-.0819	-.0131	-.0341
74	WMA	6.984	SC	21	1.1126	-.0863	.0013	-.0276
74	WMA	6.984	TI	22	1.1245	-.1073	.0090	-.0262
74	WMA	6.984	V	23	1.1376	-.1293	.0168	-.0253
74	WMA	6.984	CR	24	1.1745	-.1668	.0182	-.0259
74	WMA	6.984	MN	25	1.1925	-.1922	.0250	-.0253
74	WMA	6.984	FE	26	1.2336	-.2335	.0253	-.0255
74	WMA	6.984	CO	27	1.2536	-.2602	.0318	-.0252
74	WMA	6.984	NI	28	1.3093	-.3124	.0279	-.0247
74	WMA	6.984	CU	29	1.3147	-.3281	.0389	-.0255
74	WMA	6.984	ZN	30	1.3520	-.3670	.0406	-.0257
74	WMA	6.984	GA	31	1.3670	-.3883	.0494	-.0262
74	WMA	6.984	GE	32	1.3977	-.4212	.0536	-.0301
74	WMA	6.984	Y	39	1.0454	-.0299	-.0111	-.0043

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p0	p1	p2	p3
74	WMA	6.984	ZR	40	1.0538	-.0400	-.0097	-.0040
74	WMA	6.984	NB	41	1.0661	-.0532	-.0090	-.0039
74	WMA	6.984	MO	42	1.0713	-.0608	-.0070	-.0034
74	WMA	6.984	PD	46	1.1065	-.1021	-.0022	-.0022
74	WMA	6.984	AG	47	1.1224	-.1183	-.0021	-.0021
74	WMA	6.984	CD	48	1.1236	-.1216	-.0002	-.0018
74	WMA	6.984	SN	50	1.1418	-.1413	.0011	-.0016
74	WMA	6.984	SB	51	1.1523	-.1520	.0014	-.0016
74	WMA	6.984	CS	55	1.2047	-.2026	.0002	-.0024
74	WMA	6.984	BA	56	1.2122	-.2088	-.0004	-.0030
74	WMA	6.984	LA	57	1.2323	-.2276	-.0013	-.0034
74	WMA	6.984	CE	58	1.2545	-.2483	-.0024	-.0038
74	WMA	6.984	HF	72	1.2955	-.2722	-.0160	-.0073
74	WMA	6.984	TA	73	1.0832	-.0810	-.0020	-.0002
74	WMA	6.984	RE	75	1.0004	.0008	-.0014	.0003
74	WMA	6.984	PT	78	1.0047	.0007	-.0081	.0027
74	WMA	6.984	AU	79	1.0103	-.0054	-.0071	.0023
74	WMA	6.984	PB	82	1.0157	-.0103	-.0073	.0019
74	WMA	6.984	TH	90	1.0462	-.0360	-.0113	.0011
74	WMA	6.984	U	92	1.0572	-.0450	-.0129	.0007
75	RELA	1.433	B	5	1.2691	-.2038	-.0303	-.0353
75	RELA	1.433	C	6	1.3090	-.2329	-.0319	-.0442
75	RELA	1.433	N	7	1.2994	-.2234	-.0395	-.0366
75	RELA	1.433	O	8	1.2906	-.2163	-.0410	-.0334
75	RELA	1.433	F	9	1.2478	-.1836	-.0430	-.0213
75	RELA	1.433	NA	11	1.2398	-.1789	-.0428	-.0180
75	RELA	1.433	MG	12	1.2535	-.1909	-.0413	-.0213
75	RELA	1.433	AL	13	1.2335	-.1848	-.0222	-.0269
75	RELA	1.433	SI	14	1.2492	-.1942	-.0295	-.0257
75	RELA	1.433	P	15	1.2263	-.1801	-.0220	-.0245
75	RELA	1.433	S	16	1.2400	-.1892	-.0263	-.0248
75	RELA	1.433	CL	17	1.2112	-.1669	-.0270	-.0176
75	RELA	1.433	K	19	1.2117	-.1654	-.0356	-.0109
75	RELA	1.433	CA	20	1.2240	-.1702	-.0482	-.0057
75	RELA	1.433	SC	21	1.1820	-.1422	-.0369	-.0029
75	RELA	1.433	TI	22	1.1700	-.1354	-.0324	-.0023
75	RELA	1.433	V	23	1.1584	-.1309	-.0230	-.0048
75	RELA	1.433	CR	24	1.1700	-.1448	-.0151	-.0104
75	RELA	1.433	MN	25	1.1601	-.1400	-.0085	-.0119
75	RELA	1.433	FE	26	1.1717	-.1491	-.0110	-.0120
75	RELA	1.433	CO	27	1.1611	-.1437	-.0041	-.0138
75	RELA	1.433	NI	28	1.1835	-.1620	-.0071	-.0148
75	RELA	1.433	CU	29	1.1366	-.1185	-.0050	-.0136
75	RELA	1.433	ZN	30	1.1373	-.1191	-.0058	-.0129
75	RELA	1.433	GA	31	1.1171	-.1019	-.0062	-.0095

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
75	RELA	1.433	GE	32	1.0898	-.0319	-.0850	.0268
75	RELA	1.433	Y	39	1.0939	-.0724	-.0335	.0119
75	RELA	1.433	ZR	40	1.0923	-.0719	-.0319	.0115
75	RELA	1.433	NB	41	1.0946	-.0741	-.0339	.0135
75	RELA	1.433	MO	42	1.0892	-.0721	-.0285	.0113
75	RELA	1.433	PD	46	1.0781	-.0666	-.0210	.0094
75	RELA	1.433	AG	47	1.0812	-.0696	-.0209	.0093
75	RELA	1.433	CD	48	1.0694	-.0594	-.0207	.0107
75	RELA	1.433	SN	50	1.0604	-.0521	-.0192	.0111
75	RELA	1.433	SB	51	1.0565	-.0489	-.0184	.0109
75	RELA	1.433	CS	55	1.0473	-.0450	-.0091	.0070
75	RELA	1.433	BA	56	1.0390	-.0390	-.0046	.0048
75	RELA	1.433	LA	57	1.0417	-.0416	-.0047	.0048
75	RELA	1.433	CE	58	1.0457	-.0470	-.0008	.0023
75	RELA	1.433	HF	72	1.0023	.0016	-.0080	.0042
75	RELA	1.433	TA	73	1.0024	-.0023	-.0000	-.0000
75	RELA	1.433	W	74	1.0004	-.0004	-.0000	-.0000
75	RELA	1.433	PT	78	.9941	.0060	-.0001	.0000
75	RELA	1.433	AU	79	.9950	.0051	-.0001	.0000
75	RELA	1.433	PB	82	.9705	.0356	-.0079	.0019
75	RELA	1.433	TH	90	.9722	.0297	-.0020	.0001
75	RELA	1.433	U	92	.9696	.0328	-.0025	.0001
75	REMA	6.732	B	5	1.0488	.0410	-.0295	-.0600
75	REMA	6.732	C	6	1.1041	-.0114	-.0103	-.0822
75	REMA	6.732	N	7	1.1264	-.0552	.0170	-.0880
75	REMA	6.732	O	8	1.1568	-.1092	.0471	-.0947
75	REMA	6.732	F	9	1.1640	-.1562	.0862	-.0942
75	REMA	6.732	NA	11	1.2659	-.3056	.1524	-.1132
75	REMA	6.732	MG	12	1.3486	-.4068	.1828	-.1252
75	REMA	6.732	AL	13	1.3972	-.4857	.2220	-.1342
75	REMA	6.732	SI	14	1.4883	-.5886	.2414	-.1418
75	REMA	6.732	P	15	1.0466	.0255	-.0373	-.0347
75	REMA	6.732	S	16	1.0713	.0022	-.0352	-.0383
75	REMA	6.732	CL	17	1.0611	-.0034	-.0257	-.0319
75	REMA	6.732	K	19	1.0948	-.0459	-.0167	-.0321
75	REMA	6.732	CA	20	1.1254	-.0762	-.0152	-.0339
75	REMA	6.732	SC	21	1.1071	-.0784	-.0016	-.0271
75	REMA	6.732	TI	22	1.1171	-.0973	.0057	-.0255
75	REMA	6.732	V	23	1.1285	-.1171	.0130	-.0244
75	REMA	6.732	CR	24	1.1631	-.1523	.0143	-.0251
75	REMA	6.732	MN	25	1.1790	-.1754	.0207	-.0244
75	REMA	6.732	FE	26	1.2177	-.2142	.0210	-.0246
75	REMA	6.732	CO	27	1.2354	-.2385	.0271	-.0241
75	REMA	6.732	NI	28	1.2883	-.2880	.0235	-.0239
75	REMA	6.732	CU	29	1.2915	-.3015	.0339	-.0240

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
75	REMA	6.732	ZN	30	1.3262	-.3377	.0355	-.0240
75	REMA	6.732	GA	31	1.3386	-.3567	.0436	-.0258
75	REMA	6.732	GE	32	1.3668	-.3872	.0476	-.0273
75	REMA	6.732	Y	39	1.0419	-.0258	-.0118	-.0044
75	REMA	6.732	ZR	40	1.0496	-.0351	-.0104	-.0041
75	REMA	6.732	NB	41	1.0612	-.0474	-.0098	-.0039
75	REMA	6.732	MO	42	1.0656	-.0543	-.0078	-.0035
75	REMA	6.732	PD	46	1.0975	-.0922	-.0030	-.0023
75	REMA	6.732	AG	47	1.1124	-.1075	-.0028	-.0021
75	REMA	6.732	CD	48	1.1127	-.1101	-.0008	-.0018
75	REMA	6.732	SN	50	1.1290	-.1281	.0007	-.0016
75	REMA	6.732	SB	51	1.1384	-.1380	.0011	-.0015
75	REMA	6.732	CS	55	1.1865	-.1850	.0006	-.0020
75	REMA	6.732	BA	56	1.1928	-.1905	.0002	-.0025
75	REMA	6.732	LA	57	1.2118	-.2083	-.0007	-.0028
75	REMA	6.732	CE	58	1.2327	-.2279	-.0017	-.0031
75	REMA	6.732	HF	72	1.2696	-.2500	-.0139	-.0057
75	REMA	6.732	TA	73	1.2843	-.2622	-.0155	-.0067
75	REMA	6.732	W	74	1.0803	-.0780	-.0021	-.0002
75	REMA	6.732	PT	78	.9996	.0068	-.0099	.0035
75	REMA	6.732	AU	79	1.0049	.0008	-.0086	.0029
75	REMA	6.732	PB	82	1.0097	-.0038	-.0084	.0025
75	REMA	6.732	TH	90	1.0376	-.0282	-.0110	.0014
75	REMA	6.732	U	92	1.0481	-.0369	-.0121	.0009
78	PTLA	1.313	B	5	1.3023	-.2314	-.0387	-.0320
78	PTLA	1.313	C	6	1.3450	-.2768	-.0110	-.0571
78	PTLA	1.313	N	7	1.3344	-.2662	-.0143	-.0539
78	PTLA	1.313	O	8	1.3245	-.2553	-.0206	-.0486
78	PTLA	1.313	F	9	1.2793	-.2133	-.0406	-.0255
78	PTLA	1.313	NA	11	1.2696	-.2022	-.0505	-.0167
78	PTLA	1.313	MG	12	1.2833	-.2150	-.0457	-.0226
78	PTLA	1.313	AL	13	1.2628	-.2118	-.0210	-.0302
78	PTLA	1.313	SI	14	1.2797	-.2307	-.0094	-.0398
78	PTLA	1.313	P	15	1.2555	-.2162	-.0008	-.0387
78	PTLA	1.313	S	16	1.2683	-.2224	-.0085	-.0377
78	PTLA	1.313	CL	17	1.2377	-.1992	-.0035	-.0354
78	PTLA	1.313	K	19	1.2359	-.1898	-.0252	-.0211
78	PTLA	1.313	CA	20	1.2466	-.1847	-.0579	-.0040
78	PTLA	1.313	SC	21	1.2032	-.1541	-.0505	.0015
78	PTLA	1.313	TI	22	1.1899	-.1462	-.0449	.0012
78	PTLA	1.313	V	23	1.1773	-.1408	-.0364	-.0000
78	PTLA	1.313	CR	24	1.1881	-.1524	-.0315	-.0043
78	PTLA	1.313	MN	25	1.1773	-.1494	-.0185	-.0095
78	PTLA	1.313	FE	26	1.1892	-.1641	-.0102	-.0151
78	PTLA	1.313	CO	27	1.1785	-.1652	.0117	-.0255

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
78	PTLA	1.313	NI	28	1.2000	-.1822	.0080	-.0262
78	PTLA	1.313	CU	29	1.1720	-.1633	.0192	-.0284
78	PTLA	1.313	ZN	30	1.1590	-.1488	.0207	-.0316
78	PTLA	1.313	GA	31	1.1380	-.1309	.0202	-.0280
78	PTLA	1.313	GE	32	1.1300	-.1229	.0195	-.0273
78	PTLA	1.313	Y	39	1.1085	-.0804	-.0408	.0125
78	PTLA	1.313	ZR	40	1.1065	-.0797	-.0389	.0120
78	PTLA	1.313	NB	41	1.1082	-.0794	-.0447	.0157
78	PTLA	1.313	MO	42	1.1020	-.0720	-.0527	.0227
78	PTLA	1.313	PD	46	1.0901	-.0692	-.0407	.0200
78	PTLA	1.313	AG	47	1.0938	-.0790	-.0268	.0121
78	PTLA	1.313	CD	48	1.0814	-.0690	-.0253	.0130
78	PTLA	1.313	SN	50	1.0713	-.0619	-.0213	.0121
78	PTLA	1.313	SB	51	1.0669	-.0581	-.0204	.0119
78	PTLA	1.313	CS	55	1.0558	-.0565	-.0010	.0019
78	PTLA	1.313	BA	56	1.0469	-.0482	-.0006	.0020
78	PTLA	1.313	LA	57	1.0492	-.0534	.0069	-.0026
78	PTLA	1.313	CE	58	1.0528	-.0595	.0139	-.0071
78	PTLA	1.313	HF	72	1.0104	-.0101	-.0002	-.0000
78	PTLA	1.313	TA	73	1.0094	-.0092	-.0002	-.0000
78	PTLA	1.313	W	74	1.0072	-.0071	-.0001	-.0000
78	PTLA	1.313	RE	75	1.0066	-.0065	-.0001	-.0000
78	PTLA	1.313	AU	79	1.0007	-.0007	-.0000	-.0000
78	PTLA	1.313	PB	82	.9922	.0139	-.0150	.0089
78	PTLA	1.313	TH	90	.9756	.0258	.0042	-.0057
78	PTLA	1.313	U	92	.9723	.0280	.0077	-.0081
78	PTMA	6.049	B	5	1.0687	.0232	-.0313	-.0603
78	PTMA	6.049	C	6	1.1194	-.0211	-.0172	-.0808
78	PTMA	6.049	N	7	1.1347	-.0535	.0032	-.0841
78	PTMA	6.049	O	8	1.1564	-.0938	.0256	-.0881
78	PTMA	6.049	F	9	1.1534	-.1251	.0551	-.0835
78	PTMA	6.049	NA	11	1.2312	-.2399	.1045	-.0960
78	PTMA	6.049	MG	12	1.2984	-.3201	.1267	-.1053
78	PTMA	6.049	AL	13	1.3327	-.3797	.1559	-.1093
78	PTMA	6.049	SI	14	1.4079	-.4630	.1696	-.1151
78	PTMA	6.049	P	15	1.0613	.0125	-.0374	-.0362
78	PTMA	6.049	S	16	1.0835	-.0073	-.0363	-.0398
78	PTMA	6.049	CL	17	1.0699	-.0084	-.0265	-.0328
78	PTMA	6.049	K	19	1.0965	-.0419	-.0220	-.0325
78	PTMA	6.049	CA	20	1.1231	-.0673	-.0212	-.0345
78	PTMA	6.049	SC	21	1.1003	-.0643	-.0095	-.0266
78	PTMA	6.049	TI	22	1.1057	-.0778	-.0033	-.0246
78	PTMA	6.049	V	23	1.1123	-.0921	.0029	-.0230
78	PTMA	6.049	CR	24	1.1416	-.1214	.0037	-.0239
78	PTMA	6.049	MN	25	1.1522	-.1387	.0092	-.0226

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
78	PTMA	6.049	FE	26	1.1850	-.1712	.0093	-.0231
78	PTMA	6.049	CO	27	1.1969	-.1896	.0146	-.0219
78	PTMA	6.049	NI	28	1.2431	-.2320	.0114	-.0224
78	PTMA	6.049	CU	29	1.2404	-.2400	.0205	-.0210
78	PTMA	6.049	ZN	30	1.2684	-.2697	.0219	-.0207
78	PTMA	6.049	GA	31	1.2749	-.2830	.0288	-.0208
78	PTMA	6.049	GE	32	1.2962	-.3071	.0320	-.0211
78	PTMA	6.049	Y	39	1.0397	-.0205	-.0144	-.0049
78	PTMA	6.049	ZR	40	1.0456	-.0278	-.0132	-.0045
78	PTMA	6.049	NB	41	1.0552	-.0381	-.0126	-.0045
78	PTMA	6.049	MO	42	1.0577	-.0430	-.0108	-.0039
78	PTMA	6.049	PD	46	1.0809	-.0726	-.0057	-.0026
78	PTMA	6.049	AG	47	1.0935	-.0855	-.0055	-.0025
78	PTMA	6.049	CD	48	1.0914	-.0862	-.0032	-.0020
78	PTMA	6.049	SN	50	1.1027	-.0999	-.0012	-.0016
78	PTMA	6.049	SB	51	1.1096	-.1076	-.0004	-.0015
78	PTMA	6.049	CS	55	1.1464	-.1456	.0006	-.0014
78	PTMA	6.049	BA	56	1.1499	-.1492	.0008	-.0015
78	PTMA	6.049	LA	57	1.1657	-.1643	.0003	-.0016
78	PTMA	6.049	CE	58	1.1833	-.1812	-.0003	-.0017
78	PTMA	6.049	HF	72	1.2096	-.1990	-.0080	-.0026
78	PTMA	6.049	TA	73	1.2216	-.2093	-.0092	-.0031
78	PTMA	6.049	W	74	1.2323	-.2182	-.0106	-.0036
78	PTMA	6.049	RE	75	1.2452	-.2291	-.0119	-.0042
78	PTMA	6.049	AU	79	.9999	.0017	-.0021	.0005
78	PTMA	6.049	PB	82	.9994	.0074	-.0103	.0035
78	PTMA	6.049	TH	90	1.0220	-.0158	-.0073	.0011
78	PTMA	6.049	U	92	1.0295	-.0213	-.0095	.0013
79	AULA	1.276	B	5	1.3096	-.2354	-.0470	-.0269
79	AULA	1.276	C	6	1.3521	-.2748	-.0328	-.0442
79	AULA	1.276	N	7	1.3435	-.2775	-.0120	-.0539
79	AULA	1.276	O	8	1.3333	-.2735	.0028	-.0628
79	AULA	1.276	F	9	1.2873	-.2278	-.0256	-.0341
79	AULA	1.276	NA	11	1.2768	-.2074	-.0554	-.0138
79	AULA	1.276	MG	12	1.2899	-.2183	-.0582	-.0131
79	AULA	1.276	AL	13	1.2689	-.2126	-.0314	-.0248
79	AULA	1.276	SI	14	1.2858	-.2331	-.0180	-.0348
79	AULA	1.276	P	15	1.2630	-.2290	.0110	-.0453
79	AULA	1.276	S	16	1.2757	-.2390	.0130	-.0502
79	AULA	1.276	CL	17	1.2440	-.2065	-.0022	-.0357
79	AULA	1.276	K	19	1.2413	-.1928	-.0307	-.0181
79	AULA	1.276	CA	20	1.2516	-.1879	-.0604	-.0033
79	AULA	1.276	SC	21	1.2075	-.1567	-.0545	.0038
79	AULA	1.276	TI	22	1.1944	-.1517	-.0423	-.0004
79	AULA	1.276	V	23	1.1811	-.1433	-.0371	-.0007

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
79	AULA	1.276	CR	24	1.1915	-.1516	-.0410	.0012
79	AULA	1.276	MN	25	1.1811	-.1525	-.0193	-.0094
79	AULA	1.276	FE	26	1.1917	-.1590	-.0280	-.0048
79	AULA	1.276	CO	27	1.1809	-.1624	-.0008	-.0179
79	AULA	1.276	NI	28	1.2038	-.1910	.0179	-.0312
79	AULA	1.276	CU	29	1.1752	-.1714	.0316	-.0361
79	AULA	1.276	ZN	30	1.1760	-.1752	.0396	-.0412
79	AULA	1.276	GA	31	1.1427	-.1403	.0327	-.0359
79	AULA	1.276	GE	32	1.1344	-.1311	.0269	-.0311
79	AULA	1.276	Y	39	1.1109	-.0822	-.0399	.0109
79	AULA	1.276	ZR	40	1.1085	-.0772	-.0479	.0163
79	AULA	1.276	NB	41	1.1101	-.0781	-.0526	.0204
79	AULA	1.276	MO	42	1.1037	-.0703	-.0589	.0255
79	AULA	1.276	PD	46	1.0903	-.0596	-.0624	.0319
79	AULA	1.276	AG	47	1.0936	-.0652	-.0600	.0321
79	AULA	1.276	CD	48	1.0819	-.0606	-.0471	.0261
79	AULA	1.276	SN	50	1.0727	-.0625	-.0253	.0153
79	AULA	1.276	SB	51	1.0681	-.0585	-.0243	.0150
79	AULA	1.276	CS	55	1.0565	-.0583	-.0003	.0024
79	AULA	1.276	BA	56	1.0476	-.0540	.0102	-.0036
79	AULA	1.276	LA	57	1.0496	-.0556	.0095	-.0034
79	AULA	1.276	CE	58	1.0530	-.0622	.0184	-.0091
79	AULA	1.276	HF	72	1.0169	-.0167	-.0002	-.0000
79	AULA	1.276	TA	73	1.0092	-.0090	-.0002	-.0000
79	AULA	1.276	W	74	1.0070	-.0069	-.0001	-.0000
79	AULA	1.276	RE	75	1.0063	-.0062	-.0001	-.0000
79	AULA	1.276	PT	78	.9994	.0006	-.0000	.0000
79	AULA	1.276	PB	82	.9904	.0097	-.0001	.0000
79	AULA	1.276	TH	90	.9740	.0332	-.0125	.0051
79	AULA	1.276	U	92	.9705	.0352	-.0068	.0008
79	AUMA	5.843	B	5	1.0721	.0188	-.0311	-.0595
79	AUMA	5.843	C	6	1.1215	-.0233	-.0186	-.0794
79	AUMA	5.843	N	7	1.1348	-.0525	-.0000	-.0820
79	AUMA	5.843	O	8	1.1541	-.0889	.0203	-.0854
79	AUMA	5.843	F	9	1.1482	-.1158	.0474	-.0798
79	AUMA	5.843	NA	11	1.2191	-.2207	.0924	-.0910
79	AUMA	5.843	MG	12	1.2818	-.2949	.1125	-.0996
79	AUMA	5.843	AL	13	1.3120	-.3490	.1392	-.1026
79	AUMA	5.843	SI	14	1.3826	-.4265	.1516	-.1081
79	AUMA	5.843	P	15	1.0633	.0097	-.0369	-.0359
79	AUMA	5.843	S	16	1.0847	-.0091	-.0359	-.0395
79	AUMA	5.843	CL	17	1.0702	-.0090	-.0286	-.0324
79	AUMA	5.843	K	19	1.0948	-.0399	-.0228	-.0320
79	AUMA	5.843	CA	20	1.1202	-.0637	-.0223	-.0340
79	AUMA	5.843	SC	21	1.0962	-.0592	-.0110	-.0260

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
79	AUMA	5.843	TI	22	1.1003	-.0712	-.0051	-.0240
79	AUMA	5.843	V	23	1.1054	-.0839	.0007	-.0223
79	AUMA	5.843	CR	24	1.1332	-.1114	.0014	-.0233
79	AUMA	5.843	MN	25	1.1423	-.1270	.0067	-.0220
79	AUMA	5.843	FE	26	1.1733	-.1575	.0066	-.0225
79	AUMA	5.843	CO	27	1.1836	-.1741	.0118	-.0213
79	AUMA	5.843	NI	28	1.2277	-.2144	.0087	-.0220
79	AUMA	5.843	CU	29	1.2234	-.2207	.0174	-.0202
79	AUMA	5.843	ZN	30	1.2495	-.2484	.0189	-.0199
79	AUMA	5.843	GA	31	1.2541	-.2599	.0254	-.0197
79	AUMA	5.843	GE	32	1.2734	-.2821	.0264	-.0198
79	AUMA	5.843	Y	39	1.2836	-.2868	.0144	-.0111
79	AUMA	5.843	ZR	40	1.0422	-.0242	-.0134	-.0045
79	AUMA	5.843	NB	41	1.0512	-.0339	-.0129	-.0044
79	AUMA	5.843	MO	42	1.0531	-.0382	-.0111	-.0039
79	AUMA	5.843	PD	46	1.0739	-.0651	-.0061	-.0026
79	AUMA	5.843	AG	47	1.0857	-.0772	-.0059	-.0025
79	AUMA	5.843	CD	48	1.0830	-.0773	-.0036	-.0021
79	AUMA	5.843	SN	50	1.0928	-.0897	-.0015	-.0016
79	AUMA	5.843	SB	51	1.0989	-.0967	-.0007	-.0015
79	AUMA	5.843	CS	55	1.1324	-.1317	.0006	-.0013
79	AUMA	5.843	BA	56	1.1351	-.1347	.0011	-.0015
79	AUMA	5.843	LA	57	1.1499	-.1490	.0005	-.0015
79	AUMA	5.843	CE	58	1.1665	-.1649	-.0000	-.0016
79	AUMA	5.843	HF	72	1.2313	-.2183	-.0094	-.0036
79	AUMA	5.843	TA	73	1.2007	-.1905	-.0078	-.0024
79	AUMA	5.843	W	74	1.2107	-.1987	-.0091	-.0029
79	AUMA	5.843	RE	75	1.2227	-.2091	-.0103	-.0033
79	AUMA	5.843	PT	78	1.0732	-.0711	-.0019	-.0002
79	AUMA	5.843	PB	82	.9936	.0146	-.0126	.0044
79	AUMA	5.843	TH	90	1.0145	-.0081	-.0078	.0014
79	AUMA	5.843	U	92	1.0212	-.0130	-.0099	.0017
82	PBMA	5.285	B	5	1.0936	.0007	-.0320	-.0620
82	PBMA	5.285	C	6	1.1404	-.0364	-.0225	-.0811
82	PBMA	5.285	N	7	1.1489	-.0581	-.0085	-.0821
82	PBMA	5.285	O	8	1.1623	-.0854	.0068	-.0835
82	PBMA	5.285	F	9	1.1492	-.1016	.0273	-.0750
82	PBMA	5.285	NA	11	1.2035	-.1830	.0613	-.0820
82	PBMA	5.285	MG	12	1.2556	-.2429	.0763	-.0891
82	PBMA	5.285	AL	13	1.2756	-.2836	.0968	-.0890
82	PBMA	5.285	SI	14	1.3350	-.3475	.1060	-.0938
82	PBMA	5.285	P	15	1.3622	-.3968	.1297	-.0954
82	PBMA	5.285	S	16	1.1008	-.0215	-.0368	-.0423
82	PBMA	5.285	CL	17	1.0837	-.0183	-.0308	-.0345
82	PBMA	5.285	K	19	1.1035	-.0430	-.0265	-.0339

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
82	PBMA	5.285	CA	20	1.1262	-.0635	-.0266	-.0360
82	PBMA	5.285	SC	21	1.0989	-.0551	-.0169	-.0269
82	PBMA	5.285	TI	22	1.0997	-.0633	-.0119	-.0244
82	PBMA	5.285	V	23	1.1014	-.0721	-.0070	-.0222
82	PBMA	5.285	CR	24	1.1255	-.0954	-.0066	-.0234
82	PBMA	5.285	MN	25	1.1307	-.1069	-.0021	-.0217
82	PBMA	5.285	FE	26	1.1577	-.1329	-.0021	-.0226
82	PBMA	5.285	CO	27	1.1637	-.1451	.0023	-.0209
82	PBMA	5.285	NI	28	1.2031	-.1803	-.0006	-.0222
82	PBMA	5.285	CU	29	1.1945	-.1825	.0074	-.0194
82	PBMA	5.285	ZN	30	1.2157	-.2054	.0086	-.0189
82	PBMA	5.285	GA	31	1.2158	-.2127	.0145	-.0176
82	PBMA	5.285	GE	32	1.2301	-.2303	.0173	-.0172
82	PBMA	5.285	Y	39	1.3302	-.3337	.0172	-.0137
82	PBMA	5.285	ZR	40	1.3465	-.3499	.0169	-.0137
82	PBMA	5.285	NB	41	1.0534	-.0324	-.0158	-.0052
82	PBMA	5.285	MO	42	1.0539	-.0353	-.0140	-.0046
82	PBMA	5.285	PD	46	1.0684	-.0561	-.0091	-.0031
82	PBMA	5.285	AG	47	1.0785	-.0665	-.0089	-.0031
82	PBMA	5.285	CD	48	1.0741	-.0652	-.0064	-.0025
82	PBMA	5.285	SN	50	1.0802	-.0743	-.0040	-.0019
82	PBMA	5.285	SB	51	1.0843	-.0796	-.0030	-.0017
82	PBMA	5.285	CS	55	1.1094	-.1075	-.0006	-.0013
82	PBMA	5.285	BA	56	1.1100	-.1091	.0004	-.0013
82	PBMA	5.285	LA	57	1.1224	-.1214	.0002	-.0013
82	PBMA	5.285	CE	58	1.1366	-.1352	-.0001	-.0013
82	PBMA	5.285	HF	72	1.1854	-.1789	-.0050	-.0016
82	PBMA	5.285	TA	73	1.1957	-.1880	-.0058	-.0019
82	PBMA	5.285	W	74	1.2048	-.1957	-.0068	-.0022
82	PBMA	5.285	RE	75	1.2159	-.2056	-.0078	-.0026
82	PBMA	5.285	PT	78	1.2035	-.1925	-.0086	-.0024
82	PBMA	5.285	AU	79	1.2160	-.2037	-.0094	-.0028
82	PBMA	5.285	TH	90	1.0059	-.0002	-.0077	.0020
82	PBMA	5.285	U	92	1.0112	-.0046	-.0087	.0020
90	THMA	4.137	B	5	1.1383	-.0376	-.0325	-.0679
90	THMA	4.137	C	6	1.1809	-.0670	-.0277	-.0858
90	THMA	4.137	N	7	1.1817	-.0764	-.0209	-.0840
90	THMA	4.137	O	8	1.1854	-.0889	-.0136	-.0825
90	THMA	4.137	F	9	1.1600	-.0872	-.0034	-.0692
90	THMA	4.137	NA	11	1.1862	-.1295	.0138	-.0704
90	THMA	4.137	MG	12	1.2202	-.1653	.0211	-.0759
90	THMA	4.137	AL	13	1.2225	-.1831	.0321	-.0715
90	THMA	4.137	SI	14	1.2623	-.2231	.0369	-.0760
90	THMA	4.137	P	15	1.2677	-.2450	.0489	-.0717
90	THMA	4.137	S	16	1.3097	-.2875	.0520	-.0743

TABLE A2.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
90	THMA	4.137	CL	17	1.3122	-.3081	.0658	-.0700
90	THMA	4.137	K	19	1.1255	-.0552	-.0320	-.0382
90	THMA	4.137	CA	20	1.1437	-.0699	-.0330	-.0406
90	THMA	4.137	SC	21	1.1105	-.0549	-.0258	-.0297
90	THMA	4.137	TI	22	1.1056	-.0565	-.0225	-.0265
90	THMA	4.137	V	23	1.1013	-.0584	-.0191	-.0236
90	THMA	4.137	CR	24	1.1191	-.0744	-.0196	-.0251
90	THMA	4.137	MN	25	1.1176	-.0785	-.0163	-.0228
90	THMA	4.137	FE	26	1.1373	-.0962	-.0170	-.0241
90	THMA	4.137	CO	27	1.1359	-.1005	-.0138	-.0216
90	THMA	4.137	NI	28	1.1671	-.1265	-.0162	-.0244
90	THMA	4.137	CU	29	1.1507	-.1209	-.0102	-.0196
90	THMA	4.137	ZN	30	1.1633	-.1348	-.0091	-.0193
90	THMA	4.137	GA	31	1.1551	-.1344	-.0041	-.0166
90	THMA	4.137	GE	32	1.1605	-.1433	-.0018	-.0154
90	THMA	4.137	Y	39	1.2445	-.2383	.0049	-.0111
90	THMA	4.137	ZR	40	1.2554	-.2500	.0051	-.0106
90	THMA	4.137	NB	41	1.2740	-.2687	.0049	-.0102
90	THMA	4.137	MO	42	1.2841	-.2803	.0061	-.0099
90	THMA	4.137	PD	46	1.0633	-.0437	-.0150	-.0046
90	THMA	4.137	AG	47	1.0703	-.0508	-.0149	-.0046
90	THMA	4.137	CD	48	1.0627	-.0467	-.0123	-.0037
90	THMA	4.137	SN	50	1.0621	-.0496	-.0097	-.0029
90	THMA	4.137	SB	51	1.0627	-.0516	-.0085	-.0026
90	THMA	4.137	CS	55	1.0725	-.0656	-.0051	-.0018
90	THMA	4.137	BA	56	1.0692	-.0642	-.0034	-.0016
90	THMA	4.137	LA	57	1.0773	-.0724	-.0032	-.0016
90	THMA	4.137	CE	58	1.0869	-.0819	-.0034	-.0016
90	THMA	4.137	HF	72	1.1619	-.1588	-.0023	-.0008
90	THMA	4.137	TA	73	1.1698	-.1662	-.0027	-.0009
90	THMA	4.137	W	74	1.1765	-.1724	-.0031	-.0010
90	THMA	4.137	RE	75	1.1853	-.1805	-.0036	-.0012
90	THMA	4.137	PT	78	1.1378	-.1351	-.0023	-.0005
90	THMA	4.137	AU	79	1.1466	-.1435	-.0026	-.0005
90	THMA	4.137	PB	82	1.1331	-.1298	-.0028	-.0005
90	THMA	4.137	U	92	.9990	.0020	-.0012	.0003
92	UMA	3.911	B	5	1.1482	-.0457	-.0328	-.0693
92	UMA	3.911	C	6	1.1903	-.0741	-.0284	-.0873
92	UMA	3.911	N	7	1.1898	-.0816	-.0230	-.0848
92	UMA	3.911	O	8	1.1920	-.0918	-.0169	-.0829
92	UMA	3.911	F	9	1.1646	-.0873	-.0082	-.0689
92	UMA	3.911	NA	11	1.1863	-.1233	.0063	-.0692
92	UMA	3.911	MG	12	1.2174	-.1555	.0128	-.0746
92	UMA	3.911	AL	13	1.2168	-.1695	.0222	-.0695
92	UMA	3.911	SI	14	1.2534	-.2056	.0264	-.0742

TABLE A2.- Concluded

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
92	UMA	3.911	P	15	1.2553	-.2231	.0368	-.0690
92	UMA	3.911	S	16	1.2937	-.2614	.0395	-.0717
92	UMA	3.911	CL	17	1.2922	-.2773	.0514	-.0664
92	UMA	3.911	K	19	1.1315	-.0589	-.0332	-.0392
92	UMA	3.911	CA	20	1.1489	-.0727	-.0345	-.0416
92	UMA	3.911	SC	21	1.1147	-.0566	-.0276	-.0304
92	UMA	3.911	TI	22	1.1089	-.0571	-.0246	-.0271
92	UMA	3.911	V	23	1.1036	-.0581	-.0212	-.0242
92	UMA	3.911	CR	24	1.1204	-.0728	-.0218	-.0257
92	UMA	3.911	MN	25	1.1178	-.0757	-.0167	-.0233
92	UMA	3.911	FE	26	1.1364	-.0921	-.0195	-.0247
92	UMA	3.911	CO	27	1.1337	-.0952	-.0162	-.0223
92	UMA	3.911	NI	28	1.1635	-.1194	-.0190	-.0251
92	UMA	3.911	CU	29	1.1459	-.1127	-.0130	-.0202
92	UMA	3.911	ZN	30	1.1570	-.1250	-.0123	-.0197
92	UMA	3.911	GA	31	1.1474	-.1231	-.0074	-.0168
92	UMA	3.911	GE	32	1.1513	-.1304	-.0054	-.0155
92	UMA	3.911	Y	39	1.2231	-.2138	.0016	-.0108
92	UMA	3.911	ZR	40	1.2326	-.2243	.0020	-.0103
92	UMA	3.911	NB	41	1.2492	-.2411	.0018	-.0099
92	UMA	3.911	MO	42	1.2573	-.2511	.0032	-.0094
92	UMA	3.911	PD	46	1.0642	-.0431	-.0162	-.0050
92	UMA	3.911	AG	47	1.0708	-.0496	-.0161	-.0050
92	UMA	3.911	CD	48	1.0626	-.0450	-.0136	-.0040
92	UMA	3.911	SN	50	1.0609	-.0468	-.0108	-.0032
92	UMA	3.911	SB	51	1.0609	-.0484	-.0096	-.0030
92	UMA	3.911	CS	55	1.0681	-.0599	-.0060	-.0022
92	UMA	3.911	BA	56	1.0641	-.0579	-.0044	-.0018
92	UMA	3.911	LA	57	1.0715	-.0653	-.0043	-.0019
92	UMA	3.911	CE	58	1.0803	-.0740	-.0045	-.0018
92	UMA	3.911	HF	72	1.1430	-.1408	-.0017	-.0006
92	UMA	3.911	TA	73	1.1499	-.1475	-.0019	-.0006
92	UMA	3.911	W	74	1.1557	-.1529	-.0021	-.0007
92	UMA	3.911	RE	75	1.1634	-.1602	-.0024	-.0007
92	UMA	3.911	PT	78	1.1545	-.1513	-.0025	-.0006
92	UMA	3.911	AU	79	1.1636	-.1600	-.0029	-.0007
92	UMA	3.911	PB	82	1.1411	-.1379	-.0027	-.0006
92	UMA	3.911	TH	90	.9988	.0012	-.0001	-.0000

TABLE A3.- POLYNOMIAL COEFFICIENTS FOR 10 kV ACCELERATING POTENTIAL

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
5	BKA	67.395	C	6	1.3211	-.3040	-.0195	.0024
5	BKA	67.395	N	7	1.6635	-.6020	-.0453	-.0161
5	BKA	67.395	O	8	2.0966	-.9506	-.0853	-.0604
5	BKA	67.395	F	9	2.5989	-1.2987	-.1565	-.1428
5	BKA	67.395	NA	11	4.1031	-2.3770	-.2339	-.4884
5	BKA	67.395	MG	12	5.1157	-3.1263	-.1930	-.7895
5	BKA	67.395	AL	13	6.2287	-3.8293	-.2413	-1.1473
5	BKA	67.395	SI	14	7.5871	-4.8248	-.0846	-1.6612
5	BKA	67.395	P	15	10.6194	-6.7829	-.1679	-2.6409
5	BKA	67.395	S	16	6.1169	-3.6343	.0668	-1.5344
5	BKA	67.395	CL	17	4.8756	-2.6271	-.0380	-1.1991
5	BKA	67.395	K	19	3.5444	-1.6819	-.0426	-.8122
5	BKA	67.395	CA	20	3.2896	-1.5177	-.0335	-.7310
5	BKA	67.395	SC	21	3.1444	-1.2901	-.1477	-.6992
5	BKA	67.395	TI	22	3.2048	-1.2743	-.1618	-.7605
5	BKA	67.395	V	23	3.3878	-1.3313	-.1602	-.8867
5	BKA	67.395	CR	24	3.7038	-1.5484	-.0479	-1.0956
5	BKA	67.395	MN	25	4.0549	-1.7100	.0063	-1.3365
5	BKA	67.395	FE	26	4.4996	-2.0239	.1977	-1.6549
5	BKA	67.395	CO	27	4.9412	-2.2302	.2934	-1.9820
5	BKA	67.395	NI	28	5.4797	-2.6857	.6457	-2.4119
5	BKA	67.395	CU	29	4.6671	-2.0521	.3817	-1.9747
5	BKA	67.395	ZN	30	4.9936	-2.2616	.5585	-2.2651
5	BKA	67.395	GA	31	4.5766	-1.9152	.4140	-2.0528
5	BKA	67.395	GE	32	4.3947	-1.7849	.4045	-1.9925
5	BKA	67.395	Y	39	2.4285	-.6935	.0834	-.8113
5	BKA	67.395	ZR	40	2.5382	-.7519	.1351	-.9132
5	BKA	67.395	NB	41	2.6415	-.8206	.2003	-1.0118
5	BKA	67.395	MO	42	2.7224	-.8480	.2351	-1.0991
5	BKA	67.395	PD	46	3.0226	-.9820	.4202	-1.4456
5	BKA	67.395	AG	47	3.1067	-1.0472	.4989	-1.5418
5	BKA	67.395	CD	48	3.1638	-1.0257	.5034	-1.6236
5	BKA	67.395	SN	50	3.3106	-1.0647	.5888	-1.8139
5	BKA	67.395	SB	51	3.3886	-1.0883	.6378	-1.9158
5	BKA	67.395	CS	55	3.7355	-1.2268	.8941	-2.3731
5	BKA	67.395	BA	56	3.8142	-1.2148	.9193	-2.4870
5	BKA	67.395	LA	57	3.9179	-1.2898	1.0288	-2.6229
5	BKA	67.395	CE	58	4.0258	-1.3774	1.1525	-2.7645
5	BKA	67.395	HF	72	5.3548	-1.9589	2.4424	-4.7642
5	BKA	67.395	TA	73	5.4483	-2.0104	2.5532	-4.9140
5	BKA	67.395	W	74	5.5388	-2.0472	2.6506	-5.0621
5	BKA	67.395	RE	75	5.6339	-2.1037	2.7688	-5.2157
5	BKA	67.395	PT	78	5.9140	-2.2156	3.0757	-5.6812
5	BKA	67.395	AU	79	6.0193	-2.2941	3.2224	-5.8512
5	BKA	67.395	PB	82	6.3242	-2.3791	3.5267	-6.3647

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
5	BKA	67.395	TH	90	7.4197	-2.8230	4.7212	-8.1726
5	BKA	67.395	U	92	7.7670	-2.8794	4.9316	-8.6595
6	CKA	44.519	B	5	3.3832	-2.4809	.2593	-.1599
6	CKA	44.519	N	7	1.1077	-.0953	-.0183	.0059
6	CKA	44.519	O	8	1.2523	-.2249	-.0255	-.0018
6	CKA	44.519	F	9	1.4048	-.3319	-.0605	-.0124
6	CKA	44.519	NA	11	1.9123	-.6988	-.1356	-.0776
6	CKA	44.519	MG	12	2.2613	-.9589	-.1529	-.1486
6	CKA	44.519	AL	13	2.6203	-1.1763	-.2008	-.2417
6	CKA	44.519	SI	14	3.0822	-1.5163	-.1810	-.3821
6	CKA	44.519	P	15	3.5421	-1.7729	-.2263	-.5385
6	CKA	44.519	S	16	4.1149	-2.1857	-.1622	-.7602
6	CKA	44.519	CL	17	4.6707	-2.4494	-.2345	-.9772
6	CKA	44.519	K	19	1.8071	-.5233	-.1308	-.1520
6	CKA	44.519	CA	20	1.7270	-.4834	-.1067	-.1340
6	CKA	44.519	SC	21	1.6554	-.3785	-.1510	-.1251
6	CKA	44.519	TI	22	1.6756	-.3675	-.1697	-.1372
6	CKA	44.519	V	23	1.7406	-.3800	-.1949	-.1643
6	CKA	44.519	CR	24	1.8673	-.4638	-.1891	-.2125
6	CKA	44.519	MN	25	1.9946	-.5085	-.2138	-.2692
6	CKA	44.519	FE	26	2.1673	-.6208	-.1957	-.3476
6	CKA	44.519	CO	27	2.3237	-.6723	-.2183	-.4287
6	CKA	44.519	NI	28	2.5367	-.8347	-.1587	-.5375
6	CKA	44.519	CU	29	2.6834	-.8261	-.2243	-.6260
6	CKA	44.519	ZN	30	2.8773	-.9166	-.2146	-.7372
6	CKA	44.519	GA	31	3.0387	-.9039	-.2972	-.8269
6	CKA	44.519	GE	32	3.2239	-.9449	-.3290	-.9370
6	CKA	44.519	Y	39	3.0611	-.7079	-.3770	-.9613
6	CKA	44.519	ZR	40	1.5137	-.0402	-.4031	-.0681
6	CKA	44.519	NB	41	1.5612	-.0615	-.4048	-.0925
6	CKA	44.519	MO	42	1.5951	-.0604	-.4185	-.1136
6	CKA	44.519	PD	46	1.7250	-.0785	-.4319	-.2113
6	CKA	44.519	AG	47	1.7645	-.1014	-.4176	-.2420
6	CKA	44.519	CD	48	1.7843	-.0749	-.4421	-.2635
6	CKA	44.519	SN	50	1.8456	-.0688	-.4504	-.3219
6	CKA	44.519	SB	51	1.8785	-.0688	-.4493	-.3557
6	CKA	44.519	CS	55	2.0275	-.0863	-.4272	-.5077
6	CKA	44.519	BA	56	2.0574	-.0637	-.4443	-.5426
6	CKA	44.519	LA	57	2.1047	-.0896	-.4154	-.5924
6	CKA	44.519	CE	58	2.1546	-.1230	-.3775	-.6463
6	CKA	44.519	HF	72	2.7214	-.2338	-.0718	-1.3983
6	CKA	44.519	TA	73	2.7617	-.2478	-.0376	-1.4580
6	CKA	44.519	W	74	2.7997	-.2534	-.0117	-1.5154
6	CKA	44.519	RE	75	2.8408	-.2697	.0259	-1.5769
6	CKA	44.519	PT	78	2.9578	-.2854	.1077	-1.7571

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
6	CKA	44.519	AU	79	3.0041	-.3126	.1594	-1.8270
6	CKA	44.519	PB	82	3.1280	-.3087	.2300	-2.0219
6	CKA	44.519	TH	90	3.5769	-.3835	.5716	-2.7253
6	CKA	44.519	U	92	3.7241	-.4164	.6945	-2.9583
7	NKA	31.633	B	5	1.9036	-.9756	.1355	-.0633
7	NKA	31.633	C	6	2.5971	-1.6390	.1419	-.0992
7	NKA	31.633	O	8	1.0549	-.0411	-.0240	.0103
7	NKA	31.633	F	9	1.1071	-.0877	-.0215	.0022
7	NKA	31.633	NA	11	1.3336	-.2703	-.0518	-.0115
7	NKA	31.633	MG	12	1.4981	-.4025	-.0681	-.0275
7	NKA	31.633	AL	13	1.6522	-.4987	-.1018	-.0515
7	NKA	31.633	SI	14	1.8094	-.6666	-.1103	-.0922
7	NKA	31.633	P	15	2.0656	-.7760	-.1460	-.1429
7	NKA	31.633	S	16	2.3307	-.9740	-.1371	-.2182
7	NKA	31.633	CL	17	2.5622	-1.0814	-.1792	-.2995
7	NKA	31.633	K	19	3.1737	-1.4770	-.1520	-.5401
7	NKA	31.633	CA	20	3.5836	-1.7768	-.0814	-.7188
7	NKA	31.633	SC	21	1.2291	-.1302	-.0768	-.0220
7	NKA	31.633	TI	22	1.2332	-.1165	-.0946	-.0219
7	NKA	31.633	V	23	1.2617	-.1219	-.1111	-.0284
7	NKA	31.633	CR	24	1.3298	-.1734	-.1144	-.0416
7	NKA	31.633	MN	25	1.3895	-.1963	-.1361	-.0566
7	NKA	31.633	FE	26	1.4815	-.2627	-.1383	-.0798
7	NKA	31.633	CO	27	1.5556	-.2883	-.1624	-.1040
7	NKA	31.633	NI	28	1.6725	-.3853	-.1459	-.1400
7	NKA	31.633	CU	29	1.7342	-.3733	-.1899	-.1694
7	NKA	31.633	ZN	30	1.8327	-.4268	-.1936	-.2103
7	NKA	31.633	GA	31	1.9048	-.4221	-.2331	-.2473
7	NKA	31.633	GE	32	1.9948	-.4496	-.2501	-.2922
7	NKA	31.633	Y	39	2.3321	-.5286	-.3011	-.4959
7	NKA	31.633	ZR	40	2.0091	-.3585	-.3290	-.3171
7	NKA	31.633	NB	41	2.0938	-.3939	-.3328	-.3619
7	NKA	31.633	MO	42	2.1691	-.4010	-.3574	-.4046
7	NKA	31.633	PD	46	1.3112	.0554	-.3922	.0274
7	NKA	31.633	AG	47	1.3340	.0513	-.4114	.0281
7	NKA	31.633	CD	48	1.3404	.0809	-.4517	.0325
7	NKA	31.633	SN	50	1.3702	.1100	-.5132	.0355
7	NKA	31.633	SB	51	1.3869	.1216	-.5396	.0338
7	NKA	31.633	CS	55	1.4656	.1523	-.6264	.0119
7	NKA	31.633	BA	56	1.4789	.1768	-.6589	.0068
7	NKA	31.633	LA	57	1.5062	.1699	-.6668	-.0055
7	NKA	31.633	CE	58	1.5355	.1584	-.6698	-.0201
7	NKA	31.633	HF	72	1.8431	.2059	-.7664	-.2758
7	NKA	31.633	TA	73	1.8655	.2044	-.7629	-.3000
7	NKA	31.633	W	74	1.8860	.2081	-.7641	-.3228

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
7	NKA	31.633	RE	75	1.9090	.2049	-.7582	-.3483
7	NKA	31.633	PT	78	1.9722	.2164	-.7584	-.4219
7	NKA	31.633	AU	79	1.9987	.2060	-.7433	-.4529
7	NKA	31.633	PB	82	2.0642	.2296	-.7493	-.5348
7	NKA	31.633	TH	90	2.3061	.2461	-.6895	-.8487
7	NKA	31.633	U	92	2.3853	.2457	-.6621	-.9533
8	OKA	23.631	B	5	1.3783	-.4248	.0733	-.0268
8	OKA	23.631	C	6	1.7242	-.7648	.0763	-.0356
8	OKA	23.631	N	7	2.1030	-1.1075	.0663	-.0614
8	OKA	23.631	F	9	1.0024	.0170	-.0343	.0150
8	OKA	23.631	NA	11	1.1159	-.0952	-.0208	.0001
8	OKA	23.631	MG	12	1.2050	-.1747	-.0262	-.0042
8	OKA	23.631	AL	13	1.2767	-.2229	-.0439	-.0098
8	OKA	23.631	SI	14	1.3952	-.3220	-.0526	-.0205
8	OKA	23.631	P	15	1.4883	-.3750	-.0787	-.0345
8	OKA	23.631	S	16	1.6319	-.4885	-.0854	-.0579
8	OKA	23.631	CL	17	1.7403	-.5355	-.1197	-.0847
8	OKA	23.631	K	19	2.0573	-.7463	-.1367	-.1733
8	OKA	23.631	CA	20	2.2508	-.8929	-.1193	-.2371
8	OKA	23.631	SC	21	2.3778	-.9011	-.1806	-.2940
8	OKA	23.631	TI	22	2.5025	-.9491	-.1994	-.3512
8	OKA	23.631	V	23	2.6478	-1.0049	-.2202	-.4192
8	OKA	23.631	CR	24	1.1045	-.0321	-.0704	-.0019
8	OKA	23.631	MN	25	1.1343	-.0458	-.0814	-.0068
8	OKA	23.631	FE	26	1.1893	-.0917	-.0829	-.0144
8	OKA	23.631	CO	27	1.2270	-.1061	-.0995	-.0212
8	OKA	23.631	NI	28	1.3000	-.1729	-.0937	-.0330
8	OKA	23.631	CU	29	1.3254	-.1590	-.1257	-.0403
8	OKA	23.631	ZN	30	1.3816	-.1928	-.1352	-.0531
8	OKA	23.631	GA	31	1.4154	-.1848	-.1665	-.0634
8	OKA	23.631	GE	32	1.4640	-.2002	-.1853	-.0777
8	OKA	23.631	Y	39	1.8612	-.3594	-.2613	-.2378
8	OKA	23.631	ZR	40	1.9228	-.3821	-.2683	-.2692
8	OKA	23.631	NB	41	1.9915	-.4170	-.2659	-.3050
8	OKA	23.631	MO	42	1.8381	-.3208	-.2828	-.2316
8	OKA	23.631	PD	46	1.7629	-.2337	-.3288	-.1973
8	OKA	23.631	AG	47	1.8235	-.2628	-.3310	-.2262
8	OKA	23.631	CD	48	1.8643	-.2440	-.3673	-.2492
8	OKA	23.631	SN	50	1.1499	.1015	-.2841	.0335
8	OKA	23.631	SB	51	1.1595	.1085	-.3024	.0353
8	OKA	23.631	CS	55	1.2070	.1301	-.3774	.0416
8	OKA	23.631	BA	56	1.2129	.1505	-.4077	.0458
8	OKA	23.631	LA	57	1.2307	.1474	-.4226	.0461
8	OKA	23.631	CE	58	1.2501	.1419	-.4365	.0462
8	OKA	23.631	HF	72	1.4250	.3057	-.8188	.0925

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
8	OKA	23.631	TA	73	1.4382	.3133	-.6375	.0906
8	OKA	23.631	W	74	1.4500	.3242	-.8582	.0888
8	OKA	23.631	RE	75	1.4637	.3304	-.8746	.0854
8	OKA	23.631	PT	78	1.4994	.3639	-.9329	.0749
8	OKA	23.631	AU	79	1.5158	.3652	-.9432	.0677
8	OKA	23.631	PB	82	1.5527	.4051	-1.0033	.0515
8	OKA	23.631	TH	90	1.6956	.4811	-1.1231	-.0458
8	OKA	23.631	U	92	1.7430	.4974	-1.1467	-.0852
9	FKA	18.316	B	5	1.1964	-.2271	.0433	-.0127
9	FKA	18.316	C	6	1.3961	-.4297	.0459	-.0123
9	FKA	18.316	N	7	1.5977	-.6216	.0416	-.0177
9	FKA	18.316	O	8	1.8415	-.8400	.0295	-.0309
9	FKA	18.316	NA	11	1.0511	-.0368	-.0231	.0089
9	FKA	18.316	MG	12	1.1071	-.0968	-.0126	.0023
9	FKA	18.316	AL	13	1.1413	-.1259	-.0140	-.0013
9	FKA	18.316	SI	14	1.2147	-.1944	-.0154	-.0048
9	FKA	18.316	P	15	1.2604	-.2243	-.0271	-.0090
9	FKA	18.316	S	16	1.3484	-.3012	-.0312	-.0159
9	FKA	18.316	CL	17	1.4013	-.3259	-.0509	-.0244
9	FKA	18.316	K	19	1.5866	-.4622	-.0694	-.0548
9	FKA	18.316	CA	20	1.7050	-.5588	-.0675	-.0783
9	FKA	18.316	SC	21	1.7627	-.5543	-.1066	-.1013
9	FKA	18.316	TI	22	1.8612	-.6034	-.1249	-.1322
9	FKA	18.316	V	23	1.9651	-.6519	-.1439	-.1682
9	FKA	18.316	CR	24	2.0266	-.7044	-.1281	-.1928
9	FKA	18.316	MN	25	2.1187	-.7448	-.1405	-.2318
9	FKA	18.316	FE	26	1.0770	-.0303	-.0512	.0045
9	FKA	18.316	CO	27	1.0968	-.0424	-.0541	-.0003
9	FKA	18.316	NI	28	1.1483	-.0959	-.0460	-.0062
9	FKA	18.316	CU	29	1.1557	-.0843	-.0621	-.0091
9	FKA	18.316	ZN	30	1.1908	-.1105	-.0661	-.0139
9	FKA	18.316	GA	31	1.2056	-.1038	-.0849	-.0168
9	FKA	18.316	GE	32	1.2338	-.1154	-.0968	-.0213
9	FKA	18.316	Y	39	1.4781	-.2366	-.1626	-.0781
9	FKA	18.316	ZR	40	1.5164	-.2538	-.1714	-.0902
9	FKA	18.316	NB	41	1.5605	-.2800	-.1747	-.1047
9	FKA	18.316	MO	42	1.5958	-.2875	-.1888	-.1182
9	FKA	18.316	PD	46	1.6241	-.2682	-.2231	-.1311
9	FKA	18.316	AG	47	1.6750	-.2977	-.2239	-.1514
9	FKA	18.316	CD	48	1.4783	-.1672	-.2330	-.0767
9	FKA	18.316	SN	50	1.5429	-.1745	-.2670	-.0997
9	FKA	18.316	SB	51	1.5775	-.1790	-.2835	-.1130
9	FKA	18.316	CS	55	1.0879	.0972	-.2187	.0341
9	FKA	18.316	BA	56	1.0896	.1114	-.2377	.0372
9	FKA	18.316	LA	57	1.1025	.1054	-.2445	.0373

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
9	FKA	18.316	CE	58	1.1169	.0969	-.2500	.0368
9	FKA	18.316	HF	72	1.2368	.1590	-.4557	.0616
9	FKA	18.316	TA	73	1.2459	.1640	-.4721	.0641
9	FKA	18.316	W	74	1.2535	.1723	-.4913	.0674
9	FKA	18.316	RE	75	1.2629	.1774	-.5086	.0703
9	FKA	18.316	PT	78	1.2858	.2081	-.5750	.0836
9	FKA	18.316	AU	79	1.2969	.2125	-.5945	.0877
9	FKA	18.316	PB	82	1.3172	.2665	-.6962	.1158
9	FKA	18.316	TH	90	1.4050	.3795	-.9320	.1525
9	FKA	18.316	U	92	1.4349	.4072	-.9913	.1547
11	NAKA	11.909	B	5	1.0535	-.0630	.0143	-.0048
11	NAKA	11.909	C	6	1.1384	-.1508	.0174	-.0049
11	NAKA	11.909	N	7	1.1996	-.2149	.0201	-.0049
11	NAKA	11.909	O	8	1.2774	-.2908	.0184	-.0050
11	NAKA	11.909	F	9	1.3369	-.3402	.0114	-.0081
11	NAKA	11.909	MG	12	1.0039	.0488	-.0988	.0466
11	NAKA	11.909	AL	13	1.0130	.0120	-.0439	.0191
11	NAKA	11.909	SI	14	1.0507	-.0381	-.0202	.0077
11	NAKA	11.909	P	15	1.0582	-.0491	-.0114	.0023
11	NAKA	11.909	S	16	1.0981	-.0903	-.0077	-.0000
11	NAKA	11.909	CL	17	1.1038	-.0900	-.0124	-.0013
11	NAKA	11.909	K	19	1.1732	-.1491	-.0192	-.0049
11	NAKA	11.909	CA	20	1.2243	-.1962	-.0200	-.0080
11	NAKA	11.909	SC	21	1.2248	-.1758	-.0390	-.0100
11	NAKA	11.909	TI	22	1.2560	-.1911	-.0511	-.0137
11	NAKA	11.909	V	23	1.2894	-.2060	-.0653	-.0181
11	NAKA	11.909	CR	24	1.3492	-.2559	-.0675	-.0257
11	NAKA	11.909	MN	25	1.3893	-.2744	-.0817	-.0331
11	NAKA	11.909	FE	26	1.4557	-.3297	-.0814	-.0444
11	NAKA	11.909	CO	27	1.4993	-.3473	-.0966	-.0551
11	NAKA	11.909	NI	28	1.5838	-.4268	-.0845	-.0721
11	NAKA	11.909	CU	29	1.5320	-.3597	-.1055	-.0664
11	NAKA	11.909	ZN	30	1.0120	.0133	-.0266	.0012
11	NAKA	11.909	GA	31	.9961	.0531	-.0601	.0110
11	NAKA	11.909	GE	32	1.0058	.0446	-.0578	.0075
11	NAKA	11.909	Y	39	1.1041	-.0221	-.0800	-.0019
11	NAKA	11.909	ZR	40	1.1196	-.0305	-.0859	-.0030
11	NAKA	11.909	NB	41	1.1392	-.0446	-.0896	-.0048
11	NAKA	11.909	MO	42	1.1515	-.0462	-.0995	-.0057
11	NAKA	11.909	PD	46	1.2175	-.0692	-.1348	-.0131
11	NAKA	11.909	AG	47	1.2421	-.0861	-.1385	-.0171
11	NAKA	11.909	CD	48	1.2509	-.0743	-.1582	-.0180
11	NAKA	11.909	SN	50	1.2863	-.0770	-.1846	-.0241
11	NAKA	11.909	SB	51	1.3057	-.0793	-.1978	-.0280
11	NAKA	11.909	CS	55	1.2452	-.0215	-.2123	-.0107

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
11	NAKA	11.909	BA	56	1.2025	.0162	-.2179	-.0003
11	NAKA	11.909	LA	57	1.2250	.0037	-.2240	-.0041
11	NAKA	11.909	CE	58	1.2494	-.0117	-.2283	-.0087
11	NAKA	11.909	HF	72	1.0025	.1850	-.2397	.0526
11	NAKA	11.909	TA	73	1.0068	.1864	-.2468	.0541
11	NAKA	11.909	W	74	1.0099	.1900	-.2554	.0561
11	NAKA	11.909	RE	75	1.0145	.1909	-.2624	.0575
11	NAKA	11.909	PT	78	1.0241	.2029	-.2904	.0640
11	NAKA	11.909	AU	79	1.0303	.2016	-.2964	.0651
11	NAKA	11.909	PB	82	1.0387	.2202	-.3313	.0732
11	NAKA	11.909	TH	90	1.0803	.2582	-.4298	.0923
11	NAKA	11.909	U	92	1.0949	.2677	-.4581	.0967
12	MGKA	9.892	B	5	1.0194	-.0248	.0086	-.0032
12	MGKA	9.892	C	6	1.0822	-.0892	.0109	-.0038
12	MGKA	9.892	N	7	1.1161	-.1262	.0141	-.0041
12	MGKA	9.892	O	8	1.1607	-.1713	.0145	-.0039
12	MGKA	9.892	F	9	1.1847	-.1910	.0112	-.0049
12	MGKA	9.892	NA	11	1.3232	-.3109	-.0054	-.0069
12	MGKA	9.892	AL	13	.9678	.0972	-.1214	.0569
12	MGKA	9.892	SI	14	1.0019	.0324	-.0611	.0270
12	MGKA	9.892	P	15	1.0048	.0125	-.0278	.0105
12	MGKA	9.892	S	16	1.0362	-.0266	-.0136	.0040
12	MGKA	9.892	CL	17	1.0334	-.0234	-.0111	.0011
12	MGKA	9.892	K	19	1.0785	-.0649	-.0125	-.0011
12	MGKA	9.892	CA	20	1.1147	-.0997	-.0125	-.0024
12	MGKA	9.892	SC	21	1.1032	-.0746	-.0260	-.0026
12	MGKA	9.892	TI	22	1.1196	-.0812	-.0347	-.0036
12	MGKA	9.892	V	23	1.1375	-.0874	-.0453	-.0047
12	MGKA	9.892	CR	24	1.1788	-.1236	-.0474	-.0077
12	MGKA	9.892	MN	25	1.2018	-.1330	-.0587	-.0100
12	MGKA	9.892	FE	26	1.2479	-.1732	-.0598	-.0147
12	MGKA	9.892	CO	27	1.2731	-.1818	-.0729	-.0184
12	MGKA	9.892	NI	28	1.3341	-.2414	-.0666	-.0260
12	MGKA	9.892	CU	29	1.3450	-.2240	-.0913	-.0296
12	MGKA	9.892	ZN	30	1.3880	-.2531	-.0973	-.0374
12	MGKA	9.892	GA	31	1.3442	-.2025	-.1097	-.0320
12	MGKA	9.892	GE	32	1.3744	-.2133	-.1226	-.0382
12	MGKA	9.892	Y	39	1.0096	.0524	-.0673	.0054
12	MGKA	9.892	ZR	40	1.0198	.0464	-.0713	.0052
12	MGKA	9.892	NB	41	1.0337	.0355	-.0738	.0047
12	MGKA	9.892	MO	42	1.0406	.0358	-.0813	.0050
12	MGKA	9.892	PD	46	1.0819	.0232	-.1097	.0047
12	MGKA	9.892	AG	47	1.0991	.0106	-.1129	.0033
12	MGKA	9.892	CD	48	1.1020	.0226	-.1290	.0046
12	MGKA	9.892	SN	50	1.1233	.0238	-.1511	.0042

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
12	MGKA	9.892	SB	51	1.1353	.0236	-.1623	.0037
12	MGKA	9.892	CS	55	1.1938	.0140	-.2056	-.0017
12	MGKA	9.892	BA	56	1.1528	.0496	-.2091	.0070
12	MGKA	9.892	LA	57	1.1727	.0384	-.2149	.0042
12	MGKA	9.892	CE	58	1.1343	.0554	-.2001	.0108
12	MGKA	9.892	HF	72	.9333	.2219	-.2044	.0495
12	MGKA	9.892	TA	73	.9360	.2233	-.2099	.0509
12	MGKA	9.892	W	74	.9377	.2268	-.2169	.0527
12	MGKA	9.892	RE	75	.9408	.2277	-.2222	.0541
12	MGKA	9.892	PT	78	.9462	.2387	-.2446	.0601
12	MGKA	9.892	AU	79	.9507	.2375	-.2490	.0611
12	MGKA	9.892	PB	82	.9547	.2541	-.2769	.0686
12	MGKA	9.892	TH	90	.9806	.2869	-.3540	.0872
12	MGKA	9.892	U	92	.9902	.2946	-.3758	.0918
13	ALKA	8.343	B	5	1.0249	-.0261	.0030	-.0018
13	ALKA	8.343	C	6	1.0766	-.0780	.0040	-.0026
13	ALKA	8.343	N	7	1.0955	-.1003	.0076	-.0027
13	ALKA	8.343	O	8	1.1217	-.1285	.0093	-.0025
13	ALKA	8.343	F	9	1.1249	-.1322	.0100	-.0027
13	ALKA	8.343	NA	11	1.2138	-.2139	.0031	-.0029
13	ALKA	8.343	MG	12	1.2878	-.2821	-.0023	-.0034
13	ALKA	8.343	SI	14	.9842	.1041	-.1644	.0769
13	ALKA	8.343	P	15	.9892	.0548	-.0785	.0348
13	ALKA	8.343	S	16	1.0190	.0035	-.0382	.0158
13	ALKA	8.343	CL	17	1.0133	-.0014	-.0178	.0059
13	ALKA	8.343	K	19	1.0469	-.0403	-.0071	.0005
13	ALKA	8.343	CA	20	1.0753	-.0694	-.0053	-.0006
13	ALKA	8.343	SC	21	1.0565	-.0430	-.0128	-.0008
13	ALKA	8.343	TI	22	1.0642	-.0453	-.0178	-.0012
13	ALKA	8.343	V	23	1.0730	-.0472	-.0244	-.0014
13	ALKA	8.343	CR	24	1.1036	-.0757	-.0250	-.0028
13	ALKA	8.343	MN	25	1.1163	-.0805	-.0321	-.0037
13	ALKA	8.343	FE	26	1.1505	-.1125	-.0320	-.0059
13	ALKA	8.343	CO	27	1.1647	-.1168	-.0405	-.0073
13	ALKA	8.343	NI	28	1.2120	-.1651	-.0359	-.0110
13	ALKA	8.343	CU	29	1.2123	-.1474	-.0529	-.0120
13	ALKA	8.343	ZN	30	1.2422	-.1696	-.0572	-.0153
13	ALKA	8.343	GA	31	1.2513	-.1597	-.0745	-.0170
13	ALKA	8.343	GE	32	1.2749	-.1692	-.0851	-.0204
13	ALKA	8.343	Y	39	.9716	.0740	-.0527	.0072
13	ALKA	8.343	ZR	40	.9793	.0670	-.0524	.0062
13	ALKA	8.343	NB	41	.9903	.0563	-.0520	.0054
13	ALKA	8.343	MO	42	.9944	.0561	-.0560	.0056
13	ALKA	8.343	PD	46	1.0218	.0458	-.0740	.0065
13	ALKA	8.343	AG	47	1.0347	.0352	-.0758	.0060

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
13	ALKA	8.343	CD	48	1.0339	.0465	-.0877	.0075
13	ALKA	8.343	SN	50	1.0465	.0489	-.1037	.0085
13	ALKA	8.343	SB	51	1.0539	.0493	-.1119	.0089
13	ALKA	8.343	CS	55	1.0923	.0428	-.1435	.0087
13	ALKA	8.343	BA	56	1.0965	.0521	-.1583	.0099
13	ALKA	8.343	LA	57	1.1123	.0421	-.1625	.0084
13	ALKA	8.343	CE	58	1.1299	.0295	-.1653	.0063
13	ALKA	8.343	HF	72	.9099	.2089	-.1576	.0390
13	ALKA	8.343	TA	73	.9117	.2101	-.1617	.0401
13	ALKA	8.343	W	74	.9124	.2133	-.1671	.0416
13	ALKA	8.343	RE	75	.9146	.2140	-.1710	.0427
13	ALKA	8.343	PT	78	.9170	.2239	-.1881	.0474
13	ALKA	8.343	AU	79	.9205	.2226	-.1911	.0482
13	ALKA	8.343	PB	82	.9213	.2374	-.2128	.0543
13	ALKA	8.343	TH	90	.9365	.2654	-.2713	.0699
13	ALKA	8.343	U	92	.9427	.2716	-.2876	.0737
14	SIKA	7.129	B	5	1.0067	-.0072	.0015	-.0010
14	SIKA	7.129	C	6	1.0506	-.0506	.0017	-.0017
14	SIKA	7.129	N	7	1.0601	-.0627	.0045	-.0019
14	SIKA	7.129	O	8	1.0745	-.0789	.0062	-.0018
14	SIKA	7.129	F	9	1.0651	-.0708	.0076	-.0019
14	SIKA	7.129	NA	11	1.1209	-.1235	.0049	-.0024
14	SIKA	7.129	MG	12	1.1728	-.1722	.0012	-.0018
14	SIKA	7.129	AL	13	1.1947	-.1871	-.0051	-.0025
14	SIKA	7.129	P	15	.9460	.1520	-.1814	.0841
14	SIKA	7.129	S	16	.9776	.0773	-.0978	.0433
14	SIKA	7.129	CL	17	.9734	.0543	-.0462	.0185
14	SIKA	7.129	K	19	1.0024	.0069	-.0124	.0032
14	SIKA	7.129	CA	20	1.0261	-.0199	-.0073	.0012
14	SIKA	7.129	SC	21	1.0038	.0070	-.0115	.0007
14	SIKA	7.129	TI	22	1.0062	.0082	-.0150	.0006
14	SIKA	7.129	V	23	1.0091	.0102	-.0201	.0008
14	SIKA	7.129	CR	24	1.0323	-.0120	-.0204	.0001
14	SIKA	7.129	MN	25	1.0381	-.0123	-.0258	-.0000
14	SIKA	7.129	FE	26	1.0638	-.0371	-.0255	-.0012
14	SIKA	7.129	CO	27	1.0705	-.0367	-.0322	-.0015
14	SIKA	7.129	NI	28	1.1077	-.0759	-.0282	-.0036
14	SIKA	7.129	CU	29	1.1010	-.0559	-.0419	-.0032
14	SIKA	7.129	ZN	30	1.1216	-.0716	-.0454	-.0045
14	SIKA	7.129	GA	31	1.1228	-.0590	-.0594	-.0043
14	SIKA	7.129	GE	32	1.1373	-.0638	-.0680	-.0054
14	SIKA	7.129	Y	39	.9230	.1339	-.0692	.0154
14	SIKA	7.129	ZR	40	.9268	.1240	-.0630	.0122
14	SIKA	7.129	NB	41	.9363	.1119	-.0582	.0101
14	SIKA	7.129	MO	42	.9392	.1100	-.0583	.0092

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
14	SIKA	7.129	PD	46	.9585	.1000	-.0681	.0096
14	SIKA	7.129	AG	47	.9685	.0912	-.0692	.0095
14	SIKA	7.129	CD	48	.9655	.1025	-.0792	.0113
14	SIKA	7.129	SN	50	.9724	.1070	-.0925	.0132
14	SIKA	7.129	SB	51	.9766	.1087	-.0994	.0141
14	SIKA	7.129	CS	55	1.0008	.1083	-.1255	.0166
14	SIKA	7.129	BA	56	1.0017	.1180	-.1380	.0185
14	SIKA	7.129	LA	57	1.0132	.1103	-.1414	.0180
14	SIKA	7.129	CE	58	1.0262	.1005	-.1436	.0172
14	SIKA	7.129	HF	72	.9152	.2130	-.1657	.0377
14	SIKA	7.129	TA	73	.9189	.2132	-.1706	.0387
14	SIKA	7.129	W	74	.8741	.2426	-.1565	.0400
14	SIKA	7.129	RE	75	.8755	.2436	-.1599	.0410
14	SIKA	7.129	PT	78	.8759	.2538	-.1749	.0455
14	SIKA	7.129	AU	79	.8785	.2528	-.1774	.0462
14	SIKA	7.129	PB	82	.8773	.2676	-.1963	.0519
14	SIKA	7.129	TH	90	.8842	.2959	-.2460	.0662
14	SIKA	7.129	U	92	.8878	.3022	-.2593	.0697
15	PKA	6.160	B	5	1.0231	-.0209	-.0018	-.0004
15	PKA	6.160	C	6	1.0635	-.0597	-.0026	-.0012
15	PKA	6.160	N	7	1.0674	-.0662	.0002	-.0014
15	PKA	6.160	O	8	1.0749	-.0759	.0023	-.0013
15	PKA	6.160	F	9	1.0571	-.0612	.0054	-.0014
15	PKA	6.160	NA	11	1.0933	-.0973	.0057	-.0017
15	PKA	6.160	MG	12	1.1324	-.1349	.0035	-.0010
15	PKA	6.160	AL	13	1.1423	-.1420	.0007	-.0011
15	PKA	6.160	SI	14	1.1870	-.1845	-.0015	-.0009
15	PKA	6.160	S	16	.9597	.1696	-.2386	.1103
15	PKA	6.160	CL	17	.9625	.1057	-.1214	.0536
15	PKA	6.160	K	19	.9958	.0231	-.0305	.0116
15	PKA	6.160	CA	20	1.0190	-.0096	-.0144	.0050
15	PKA	6.160	SC	21	.9955	.0123	-.0097	.0019
15	PKA	6.160	TI	22	.9955	.0127	-.0090	.0008
15	PKA	6.160	V	23	.9952	.0155	-.0115	.0008
15	PKA	6.160	CR	24	1.0144	-.0037	-.0111	.0004
15	PKA	6.160	MN	25	1.0161	-.0021	-.0142	.0002
15	PKA	6.160	FE	26	1.0370	-.0230	-.0135	-.0005
15	PKA	6.160	CO	27	1.0389	-.0205	-.0176	-.0007
15	PKA	6.160	NI	28	1.0704	-.0543	-.0141	-.0020
15	PKA	6.160	CU	29	1.0588	-.0328	-.0235	-.0015
15	PKA	6.160	ZN	30	1.0736	-.0460	-.0255	-.0022
15	PKA	6.160	GA	31	1.0696	-.0326	-.0353	-.0018
15	PKA	6.160	GE	32	1.0782	-.0351	-.0411	-.0021
15	PKA	6.160	Y	39	.9388	.0863	-.0291	.0040
15	PKA	6.160	ZR	40	.9408	.0860	-.0311	.0043

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
15	PKA	6.160	NB	41	.9172	.1368	-.0732	.0193
15	PKA	6.160	MO	42	.9208	.1284	-.0638	.0147
15	PKA	6.160	PD	46	.9391	.1051	-.0525	.0083
15	PKA	6.160	AG	47	.9481	.0955	-.0513	.0078
15	PKA	6.160	CD	48	.9441	.1049	-.0580	.0089
15	PKA	6.160	SN	50	.9482	.1084	-.0670	.0106
15	PKA	6.160	SB	51	.9507	.1100	-.0720	.0114
15	PKA	6.160	CS	55	.9666	.1107	-.0911	.0140
15	PKA	6.160	BA	56	.9652	.1200	-.1008	.0157
15	PKA	6.160	LA	57	.9741	.1134	-.1029	.0155
15	PKA	6.160	CE	58	.9844	.1048	-.1039	.0149
15	PKA	6.160	HF	72	.9849	.1484	-.1607	.0277
15	PKA	6.160	TA	73	.9906	.1473	-.1660	.0283
15	PKA	6.160	W	74	.9953	.1483	-.1727	.0293
15	PKA	6.160	RE	75	1.0017	.1467	-.1780	.0299
15	PKA	6.160	PT	78	.8713	.2333	-.1405	.0361
15	PKA	6.160	AU	79	.8734	.2324	-.1423	.0366
15	PKA	6.160	PB	82	.8703	.2465	-.1579	.0413
15	PKA	6.160	TH	90	.8718	.2733	-.1979	.0531
15	PKA	6.160	U	92	.8735	.2792	-.2085	.0560
16	SKA	5.374	B	5	1.0113	-.0090	-.0030	.0007
16	SKA	5.374	C	6	1.0485	-.0445	-.0038	-.0002
16	SKA	5.374	N	7	1.0488	-.0471	-.0011	-.0006
16	SKA	5.374	O	8	1.0516	-.0519	.0010	-.0008
16	SKA	5.374	F	9	1.0289	-.0322	.0045	-.0012
16	SKA	5.374	NA	11	1.0514	-.0552	.0058	-.0020
16	SKA	5.374	MG	12	1.0811	-.0837	.0038	-.0011
16	SKA	5.374	AL	13	1.0827	-.0836	.0018	-.0009
16	SKA	5.374	SI	14	1.1173	-.1171	.0004	-.0006
16	SKA	5.374	P	15	1.1221	-.1180	-.0032	-.0008
16	SKA	5.374	CL	17	.9189	.2179	-.2508	.1151
16	SKA	5.374	K	19	.9613	.0826	-.0746	.0309
16	SKA	5.374	CA	20	.9861	.0373	-.0381	.0148
16	SKA	5.374	SC	21	.9645	.0490	-.0193	.0058
16	SKA	5.374	TI	22	.9640	.0462	-.0128	.0026
16	SKA	5.374	V	23	.9624	.0484	-.0127	.0019
16	SKA	5.374	CR	24	.9790	.0307	-.0109	.0012
16	SKA	5.374	MN	25	.9782	.0339	-.0131	.0010
16	SKA	5.374	FE	26	.9956	.0161	-.0120	.0003
16	SKA	5.374	CO	27	.9943	.0208	-.0153	.0002
16	SKA	5.374	NI	28	1.0213	-.0085	-.0122	-.0007
16	SKA	5.374	CU	29	1.0067	.0134	-.0200	-.0001
16	SKA	5.374	ZN	30	1.0173	.0048	-.0218	-.0002
16	SKA	5.374	GA	31	1.0097	.0197	-.0299	.0005
16	SKA	5.374	GE	32	1.0141	.0201	-.0349	.0007

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
16	SKA	5.374	Y	39	1.0568	.0015	-.0589	.0007
16	SKA	5.374	ZR	40	1.0641	-.0018	-.0628	.0005
16	SKA	5.374	NB	41	.9210	.1066	-.0328	.0052
16	SKA	5.374	MO	42	.9187	.1118	-.0362	.0058
16	SKA	5.374	PD	46	.8992	.1505	-.0620	.0124
16	SKA	5.374	AG	47	.9080	.1387	-.0573	.0107
16	SKA	5.374	CD	48	.9042	.1453	-.0603	.0108
16	SKA	5.374	SN	50	.9073	.1464	-.0653	.0116
16	SKA	5.374	SB	51	.9091	.1476	-.0690	.0124
16	SKA	5.374	CS	55	.9199	.1497	-.0852	.0157
16	SKA	5.374	BA	56	.9173	.1592	-.0938	.0175
16	SKA	5.374	LA	57	.9242	.1538	-.0954	.0174
16	SKA	5.374	CE	58	.9324	.1467	-.0962	.0172
16	SKA	5.374	HF	72	.9438	.1807	-.1537	.0294
16	SKA	5.374	TA	73	.9483	.1802	-.1584	.0301
16	SKA	5.374	W	74	.9518	.1816	-.1644	.0312
16	SKA	5.374	RE	75	.9380	.1911	-.1614	.0324
16	SKA	5.374	PT	78	.9477	.1963	-.1798	.0360
16	SKA	5.374	AU	79	.8601	.2349	-.1514	.0366
16	SKA	5.374	PB	82	.8446	.2681	-.1527	.0401
16	SKA	5.374	TH	90	.8418	.2959	-.1885	.0511
16	SKA	5.374	U	92	.8422	.3021	-.1978	.0538
17	CLKA	4.728	B	5	1.0358	-.0306	-.0060	.0007
17	CLKA	4.728	C	6	1.0721	-.0641	-.0080	-.0001
17	CLKA	4.728	N	7	1.0699	-.0642	-.0058	-.0000
17	CLKA	4.728	O	8	1.0698	-.0663	-.0034	-.0002
17	CLKA	4.728	F	9	1.0431	-.0440	.0015	-.0006
17	CLKA	4.728	NA	11	1.0570	-.0596	.0040	-.0014
17	CLKA	4.728	MG	12	1.0813	-.0830	.0021	-.0005
17	CLKA	4.728	AL	13	1.0774	-.0793	.0022	-.0004
17	CLKA	4.728	SI	14	1.1061	-.1074	.0014	-.0001
17	CLKA	4.728	P	15	1.1039	-.1041	.0005	-.0003
17	CLKA	4.728	S	16	1.1336	-.1331	-.0001	-.0005
17	CLKA	4.728	K	19	.9517	.1500	-.1803	.0792
17	CLKA	4.728	CA	20	.9828	.0754	-.1000	.0420
17	CLKA	4.728	SC	21	.9667	.0616	-.0460	.0178
17	CLKA	4.728	TI	22	.9687	.0464	-.0227	.0077
17	CLKA	4.728	V	23	.9679	.0421	-.0137	.0038
17	CLKA	4.728	CR	24	.9844	.0222	-.0084	.0018
17	CLKA	4.728	MN	25	.9826	.0241	-.0075	.0007
17	CLKA	4.728	FE	26	.9985	.0071	-.0057	.0001
17	CLKA	4.728	CO	27	.9953	.0123	-.0074	-.0002
17	CLKA	4.728	NI	28	1.0201	-.0146	-.0047	-.0008
17	CLKA	4.728	CU	29	1.0030	.0074	-.0099	-.0005
17	CLKA	4.728	ZN	30	1.0110	.0004	-.0105	-.0008

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
17	CLKA	4.728	GA	31	1.0007	.0158	-.0162	-.0004
17	CLKA	4.728	GE	32	1.0023	.0174	-.0195	-.0002
17	CLKA	4.728	Y	39	1.0502	-.0102	-.0398	-.0002
17	CLKA	4.728	ZR	40	1.0563	-.0133	-.0427	-.0003
17	CLKA	4.728	NB	41	1.0456	-.0054	-.0406	.0004
17	CLKA	4.728	MO	42	1.0492	-.0041	-.0456	.0006
17	CLKA	4.728	PD	46	.8885	.1697	-.0799	.0218
17	CLKA	4.728	AG	47	.8989	.1512	-.0664	.0164
17	CLKA	4.728	CD	48	.8969	.1504	-.0605	.0133
17	CLKA	4.728	SN	50	.9019	.1423	-.0545	.0104
17	CLKA	4.728	SB	51	.9041	.1402	-.0541	.0099
17	CLKA	4.728	CS	55	.9143	.1363	-.0619	.0113
17	CLKA	4.728	BA	56	.9110	.1448	-.0688	.0130
17	CLKA	4.728	LA	57	.9172	.1396	-.0698	.0131
17	CLKA	4.728	CE	58	.9244	.1327	-.0701	.0130
17	CLKA	4.728	HF	72	.9634	.1422	-.1271	.0216
17	CLKA	4.728	TA	73	.9511	.1516	-.1252	.0226
17	CLKA	4.728	W	74	.9540	.1529	-.1302	.0235
17	CLKA	4.728	RE	75	.9367	.1652	-.1263	.0246
17	CLKA	4.728	PT	78	.9440	.1699	-.1413	.0276
17	CLKA	4.728	AU	79	.9331	.1767	-.1379	.0282
17	CLKA	4.728	PB	82	.8789	.2220	-.1328	.0320
17	CLKA	4.728	TH	90	.8463	.2659	-.1524	.0404
17	CLKA	4.728	U	92	.8456	.2720	-.1600	.0425
19	KKA	3.740	B	5	1.0390	-.0335	-.0062	.0007
19	KKA	3.740	C	6	1.0734	-.0645	-.0085	-.0003
19	KKA	3.740	N	7	1.0684	-.0615	-.0064	-.0004
19	KKA	3.740	O	8	1.0647	-.0599	-.0040	-.0008
19	KKA	3.740	F	9	1.0338	-.0335	.0007	-.0011
19	KKA	3.740	NA	11	1.0373	-.0382	.0022	-.0013
19	KKA	3.740	MG	12	1.0547	-.0548	.0007	-.0006
19	KKA	3.740	AL	13	1.0441	-.0453	.0016	-.0005
19	KKA	3.740	SI	14	1.0649	-.0656	.0010	-.0004
19	KKA	3.740	P	15	1.0544	-.0554	.0013	-.0003
19	KKA	3.740	S	16	1.0751	-.0758	.0008	-.0002
19	KKA	3.740	CL	17	1.0607	-.0606	.0000	-.0002
19	KKA	3.740	CA	20	.9031	.3192	-.4008	.1800
19	KKA	3.740	SC	21	.9100	.2130	-.2162	.0940
19	KKA	3.740	TI	22	.9257	.1427	-.1162	.0481
19	KKA	3.740	V	23	.9341	.1028	-.0600	.0232
19	KKA	3.740	CR	24	.9550	.0645	-.0302	.0107
19	KKA	3.740	MN	25	.9561	.0548	-.0149	.0041
19	KKA	3.740	FE	26	.9721	.0338	-.0072	.0013
19	KKA	3.740	CO	27	.9681	.0373	-.0057	.0003
19	KKA	3.740	NI	28	.9904	.0128	-.0030	-.0002

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p0	p1	p2	p3
19	KKA	3.740	CU	29	.9713	.0351	-.0063	-.0001
19	KKA	3.740	ZN	30	.9760	.0310	-.0070	-.0000
19	KKA	3.740	GA	31	.9627	.0479	-.0109	.0003
19	KKA	3.740	GE	32	.9608	.0520	-.0135	.0008
19	KKA	3.740	Y	39	.9792	.0454	-.0266	.0020
19	KKA	3.740	ZR	40	.9818	.0445	-.0282	.0019
19	KKA	3.740	NB	41	.9888	.0388	-.0296	.0021
19	KKA	3.740	MO	42	.9889	.0422	-.0337	.0027
19	KKA	3.740	PD	46	.9593	.0739	-.0374	.0042
19	KKA	3.740	AG	47	.9128	.1111	-.0290	.0051
19	KKA	3.740	CD	48	.9036	.1242	-.0339	.0060
19	KKA	3.740	SN	50	.8977	.1346	-.0392	.0070
19	KKA	3.740	SB	51	.8953	.1392	-.0421	.0076
19	KKA	3.740	CS	55	.8705	.1760	-.0578	.0113
19	KKA	3.740	BA	56	.8687	.1796	-.0599	.0117
19	KKA	3.740	LA	57	.8751	.1722	-.0587	.0115
19	KKA	3.740	CE	58	.8822	.1640	-.0572	.0111
19	KKA	3.740	HF	72	.8999	.1793	-.0985	.0194
19	KKA	3.740	TA	73	.9019	.1795	-.1012	.0199
19	KKA	3.740	W	74	.9028	.1816	-.1052	.0208
19	KKA	3.740	RE	75	.9053	.1814	-.1080	.0214
19	KKA	3.740	PT	78	.8982	.1941	-.1162	.0240
19	KKA	3.740	AU	79	.9017	.1921	-.1180	.0243
19	KKA	3.740	PB	82	.8881	.2115	-.1271	.0276
19	KKA	3.740	TH	90	.8443	.2613	-.1402	.0346
19	KKA	3.740	U	92	.8231	.2795	-.1382	.0357
20	CAKA	3.357	B	5	1.0307	-.0254	-.0071	.0019
20	CAKA	3.357	C	6	1.0642	-.0564	-.0083	.0004
20	CAKA	3.357	N	7	1.0585	-.0529	-.0052	-.0004
20	CAKA	3.357	O	8	1.0538	-.0500	-.0030	-.0009
20	CAKA	3.357	F	9	1.0220	-.0225	.0020	-.0016
20	CAKA	3.357	NA	11	1.0224	-.0237	.0033	-.0020
20	CAKA	3.357	MG	12	1.0374	-.0370	-.0003	-.0001
20	CAKA	3.357	AL	13	1.0251	-.0255	.0002	.0002
20	CAKA	3.357	SI	14	1.0435	-.0441	.0010	-.0004
20	CAKA	3.357	P	15	1.0307	-.0317	.0013	-.0003
20	CAKA	3.357	S	16	1.0485	-.0491	.0009	-.0002
20	CAKA	3.357	CL	17	1.0316	-.0317	.0004	-.0002
20	CAKA	3.357	K	19	1.0471	-.0460	-.0010	-.0001
20	CAKA	3.357	SC	21	.8581	.3549	-.3819	.1702
20	CAKA	3.357	TI	22	.8846	.2426	-.2223	.0958
20	CAKA	3.357	V	23	.9017	.1707	-.1223	.0503
20	CAKA	3.357	CR	24	.9280	.1115	-.0637	.0243
20	CAKA	3.357	MN	25	.9334	.0870	-.0301	.0098
20	CAKA	3.357	FE	26	.9516	.0583	-.0129	.0030

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
20	CAKA	3.357	CO	27	.9491	.0576	-.0072	.0006
20	CAKA	3.357	NI	28	.9712	.0324	-.0037	.0000
20	CAKA	3.357	CU	29	.9522	.0544	-.0070	.0005
20	CAKA	3.357	ZN	30	.9561	.0510	-.0076	.0006
20	CAKA	3.357	GA	31	.9420	.0688	-.0123	.0015
20	CAKA	3.357	GE	32	.9390	.0738	-.0146	.0018
20	CAKA	3.357	Y	39	.9484	.0751	-.0271	.0036
20	CAKA	3.357	ZR	40	.9499	.0752	-.0289	.0038
20	CAKA	3.357	NB	41	.9552	.0711	-.0303	.0041
20	CAKA	3.357	MO	42	.9539	.0755	-.0340	.0047
20	CAKA	3.357	PD	46	.9594	.0794	-.0440	.0052
20	CAKA	3.357	AG	47	.9537	.0831	-.0421	.0054
20	CAKA	3.357	CD	48	.9265	.1109	-.0440	.0067
20	CAKA	3.357	SN	50	.8814	.1520	-.0410	.0076
20	CAKA	3.357	SB	51	.8786	.1568	-.0437	.0082
20	CAKA	3.357	CS	55	.8388	.2169	-.0714	.0156
20	CAKA	3.357	BA	56	.8390	.2153	-.0687	.0144
20	CAKA	3.357	LA	57	.8467	.2045	-.0640	.0129
20	CAKA	3.357	CE	58	.8547	.1940	-.0606	.0119
20	CAKA	3.357	HF	72	.8710	.2053	-.0963	.0201
20	CAKA	3.357	TA	73	.8722	.2060	-.0988	.0206
20	CAKA	3.357	W	74	.8724	.2084	-.1022	.0214
20	CAKA	3.357	RE	75	.8740	.2087	-.1046	.0220
20	CAKA	3.357	PT	78	.8752	.2158	-.1153	.0244
20	CAKA	3.357	AU	79	.8782	.2142	-.1169	.0246
20	CAKA	3.357	PB	82	.8687	.2309	-.1276	.0280
20	CAKA	3.357	TH	90	.8530	.2637	-.1522	.0356
20	CAKA	3.357	U	92	.8213	.2872	-.1445	.0361
21	SCKA	3.030	B	5	1.0712	-.0605	-.0126	.0020
21	SCKA	3.030	C	6	1.1055	-.0908	-.0154	.0007
21	SCKA	3.030	N	7	1.0989	-.0868	-.0123	.0003
21	SCKA	3.030	O	8	1.0934	-.0845	-.0074	-.0015
21	SCKA	3.030	F	9	1.0595	-.0566	-.0006	-.0023
21	SCKA	3.030	NA	11	1.0575	-.0566	.0025	-.0035
21	SCKA	3.030	MG	12	1.0716	-.0684	-.0016	-.0016
21	SCKA	3.030	AL	13	1.0572	-.0557	-.0006	-.0009
21	SCKA	3.030	SI	14	1.0745	-.0718	-.0024	-.0003
21	SCKA	3.030	P	15	1.0593	-.0580	-.0017	.0005
21	SCKA	3.030	S	16	1.0759	-.0750	-.0007	-.0002
21	SCKA	3.030	CL	17	1.0563	-.0566	.0004	-.0001
21	SCKA	3.030	K	19	1.0678	-.0679	.0002	-.0000
21	SCKA	3.030	CA	20	1.0847	-.0848	.0000	.0000
21	SCKA	3.030	TI	22	.8615	.3843	-.4384	.1941
21	SCKA	3.030	V	23	.8944	.2540	-.2590	.1115
21	SCKA	3.030	CR	24	.9328	.1526	-.1446	.0596

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
21	SCKA	3.030	MN	25	.9478	.0953	-.0705	.0275
21	SCKA	3.030	FE	26	.9723	.0485	-.0331	.0124
21	SCKA	3.030	CO	27	.9736	.0355	-.0138	.0048
21	SCKA	3.030	NI	28	.9983	.0049	-.0054	.0022
21	SCKA	3.030	CU	29	.9796	.0228	-.0029	.0006
21	SCKA	3.030	ZN	30	.9834	.0186	-.0027	.0007
21	SCKA	3.030	GA	31	.9683	.0360	-.0053	.0010
21	SCKA	3.030	GE	32	.9644	.0415	-.0074	.0016
21	SCKA	3.030	Y	39	.9672	.0458	-.0161	.0031
21	SCKA	3.030	ZR	40	.9679	.0463	-.0172	.0031
21	SCKA	3.030	NB	41	.9722	.0428	-.0187	.0037
21	SCKA	3.030	MO	42	.9697	.0475	-.0214	.0042
21	SCKA	3.030	PD	46	.9706	.0532	-.0281	.0044
21	SCKA	3.030	AG	47	.9757	.0482	-.0279	.0040
21	SCKA	3.030	CD	48	.9681	.0599	-.0323	.0043
21	SCKA	3.030	SN	50	.9390	.0886	-.0328	.0051
21	SCKA	3.030	SB	51	.9044	.1191	-.0290	.0054
21	SCKA	3.030	CS	55	.8972	.1315	-.0349	.0061
21	SCKA	3.030	BA	56	.8903	.1418	-.0391	.0070
21	SCKA	3.030	LA	57	.8502	.1998	-.0646	.0147
21	SCKA	3.030	CE	58	.8611	.1827	-.0558	.0119
21	SCKA	3.030	HF	72	.8871	.1674	-.0679	.0134
21	SCKA	3.030	TA	73	.8878	.1683	-.0700	.0139
21	SCKA	3.030	W	74	.8874	.1709	-.0730	.0147
21	SCKA	3.030	RE	75	.8884	.1713	-.0747	.0151
21	SCKA	3.030	PT	78	.8876	.1785	-.0830	.0169
21	SCKA	3.030	AU	79	.8900	.1769	-.0837	.0169
21	SCKA	3.030	PB	82	.8875	.1879	-.0947	.0194
21	SCKA	3.030	TH	90	.8715	.2185	-.1152	.0252
21	SCKA	3.030	U	92	.8649	.2276	-.1190	.0266
22	TIKA	2.748	B	5	1.0868	-.0743	-.0142	.0018
22	TIKA	2.748	C	6	1.1211	-.1038	-.0181	.0008
22	TIKA	2.748	N	7	1.1139	-.0987	-.0166	.0014
22	TIKA	2.748	O	8	1.1078	-.0959	-.0114	-.0004
22	TIKA	2.748	F	9	1.0728	-.0683	-.0026	-.0019
22	TIKA	2.748	NA	11	1.0690	-.0670	.0021	-.0041
22	TIKA	2.748	MG	12	1.0820	-.0773	-.0030	-.0017
22	TIKA	2.748	AL	13	1.0664	-.0640	-.0007	-.0017
22	TIKA	2.748	SI	14	1.0825	-.0793	-.0012	-.0019
22	TIKA	2.748	P	15	1.0657	-.0644	.0003	-.0016
22	TIKA	2.748	S	16	1.0808	-.0785	-.0012	-.0011
22	TIKA	2.748	CL	17	1.0594	-.0580	-.0018	.0005
22	TIKA	2.748	K	19	1.0676	-.0674	-.0001	-.0000
22	TIKA	2.748	CA	20	1.0828	-.0825	-.0004	-.0000
22	TIKA	2.748	SC	21	1.0497	-.0497	-.0000	-.0000

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
22	TIKA	2.748	V	23	.9753	.0532	-.0503	.0219
22	TIKA	2.748	CR	24	.9022	.2608	-.2840	.1220
22	TIKA	2.748	MN	25	.9306	.1592	-.1543	.0650
22	TIKA	2.748	FE	26	.9643	.0827	-.0798	.0331
22	TIKA	2.748	CO	27	.9726	.0481	-.0350	.0144
22	TIKA	2.748	NI	28	1.0012	.0070	-.0148	.0066
22	TIKA	2.748	CU	29	.9844	.0191	-.0066	.0031
22	TIKA	2.748	ZN	30	.9887	.0132	-.0041	.0022
22	TIKA	2.748	GA	31	.9730	.0304	-.0056	.0022
22	TIKA	2.748	GE	32	.9684	.0359	-.0066	.0023
22	TIKA	2.748	Y	39	.9662	.0431	-.0123	.0029
22	TIKA	2.748	ZR	40	.9661	.0442	-.0136	.0032
22	TIKA	2.748	NB	41	.9696	.0417	-.0153	.0040
22	TIKA	2.748	MO	42	.9662	.0472	-.0182	.0047
22	TIKA	2.748	PD	46	.9634	.0549	-.0231	.0046
22	TIKA	2.748	AG	47	.9678	.0503	-.0221	.0040
22	TIKA	2.748	CD	48	.9592	.0625	-.0263	.0045
22	TIKA	2.748	SN	50	.9552	.0704	-.0301	.0044
22	TIKA	2.748	SB	51	.9457	.0805	-.0311	.0048
22	TIKA	2.748	CS	55	.9008	.1238	-.0304	.0057
22	TIKA	2.748	BA	56	.8936	.1336	-.0334	.0061
22	TIKA	2.748	LA	57	.8959	.1311	-.0327	.0056
22	TIKA	2.748	CE	58	.8993	.1272	-.0321	.0054
22	TIKA	2.748	HF	72	.8844	.1618	-.0574	.0111
22	TIKA	2.748	TA	73	.8847	.1630	-.0595	.0117
22	TIKA	2.748	W	74	.8839	.1655	-.0617	.0122
22	TIKA	2.748	RE	75	.8845	.1661	-.0631	.0125
22	TIKA	2.748	PT	78	.8822	.1739	-.0703	.0143
22	TIKA	2.748	AU	79	.8839	.1729	-.0713	.0144
22	TIKA	2.748	PB	82	.8797	.1843	-.0806	.0166
22	TIKA	2.748	TH	90	.8632	.2141	-.0988	.0214
22	TIKA	2.748	U	92	.8633	.2183	-.1042	.0226
22	TILA	27.523	B	5	1.4076	-.6926	.4885	-.2048
22	TILA	27.523	C	6	1.8438	-1.2969	.7470	-.2954
22	TILA	27.523	N	7	2.3364	-1.9898	1.0702	-.4184
22	TILA	27.523	O	8	.8953	.1918	-.1172	.0304
22	TILA	27.523	F	9	.9219	.1192	-.0520	.0110
22	TILA	27.523	NA	11	1.0657	-.0718	.0127	-.0067
22	TILA	27.523	MG	12	1.1737	-.1926	.0281	-.0092
22	TILA	27.523	AL	13	1.2690	-.3021	.0464	-.0133
22	TILA	27.523	SI	14	1.4119	-.4485	.0509	-.0144
22	TILA	27.523	P	15	1.5338	-.5735	.0630	-.0233
22	TILA	27.523	S	16	1.7075	-.7413	.0630	-.0291
22	TILA	27.523	CL	17	1.8500	-.8759	.0760	-.0500
22	TILA	27.523	K	19	2.2420	-1.2342	.0876	-.0947

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
22	TILA	27.523	CA	20	2.4771	-1.4466	.0920	-.1214
22	TILA	27.523	SC	21	2.6337	-1.5693	.1091	-.1719
22	TILA	27.523	V	23	1.0166	-.0158	-.0007	-.0000
22	TILA	27.523	CR	24	1.0632	-.0612	-.0020	-.0001
22	TILA	27.523	MN	25	1.1010	-.0945	-.0062	-.0004
22	TILA	27.523	FE	26	1.1640	-.1533	-.0095	-.0012
22	TILA	27.523	CO	27	1.2113	-.1910	-.0176	-.0028
22	TILA	27.523	NI	28	1.2930	-.2678	-.0196	-.0026
22	TILA	27.523	CU	29	1.3294	-.2855	-.0349	-.0091
22	TILA	27.523	ZN	30	1.3955	-.3383	-.0429	-.0143
22	TILA	27.523	GA	31	1.4395	-.3582	-.0614	-.0199
22	TILA	27.523	GE	32	1.4985	-.3965	-.0743	-.0275
22	TILA	27.523	Y	39	1.9693	-.6972	-.1438	-.1274
22	TILA	27.523	ZR	40	1.7948	-.5638	-.1399	-.0905
22	TILA	27.523	NB	41	1.8711	-.6146	-.1460	-.1097
22	TILA	27.523	MO	42	1.6192	-.4256	-.1358	-.0574
22	TILA	27.523	PD	46	1.8473	-.5374	-.1961	-.1127
22	TILA	27.523	AG	47	1.0799	-.0213	-.0732	.0146
22	TILA	27.523	CD	48	1.0830	-.0112	-.0890	.0173
22	TILA	27.523	SN	50	1.1030	-.0078	-.1184	.0234
22	TILA	27.523	SB	51	1.1138	-.0050	-.1363	.0277
22	TILA	27.523	CS	55	1.1644	.0092	-.2240	.0509
22	TILA	27.523	BA	56	1.1719	.0210	-.2459	.0536
22	TILA	27.523	LA	57	1.1907	.0132	-.2564	.0530
22	TILA	27.523	CE	58	1.2113	.0019	-.2633	.0506
22	TILA	27.523	HF	72	1.4216	-.0592	-.2954	-.0674
22	TILA	27.523	TA	73	1.4373	-.0669	-.2909	-.0800
22	TILA	27.523	W	74	1.4515	-.0714	-.2885	-.0922
22	TILA	27.523	RE	75	1.4677	-.0805	-.2818	-.1060
22	TILA	27.523	PT	78	1.5115	-.0962	-.2678	-.1484
22	TILA	27.523	AU	79	1.5305	-.1099	-.2566	-.1649
22	TILA	27.523	PB	82	1.5753	-.1159	-.2533	-.2071
22	TILA	27.523	TH	90	1.7433	-.1698	-.2094	-.3647
22	TILA	27.523	U	92	1.7984	-.1886	-.1940	-.4161
23	VKA	2.503	B	5	1.1036	-.0894	-.0139	-.0002
23	VKA	2.503	C	6	1.1383	-.1197	-.0160	-.0024
23	VKA	2.503	N	7	1.1305	-.1138	-.0149	-.0016
23	VKA	2.503	O	8	1.1236	-.1093	-.0122	-.0019
23	VKA	2.503	F	9	1.0874	-.0803	-.0045	-.0025
23	VKA	2.503	NA	11	1.0824	-.0793	.0029	-.0059
23	VKA	2.503	MG	12	1.0946	-.0882	-.0030	-.0033
23	VKA	2.503	AL	13	1.0779	-.0740	-.0008	-.0029
23	VKA	2.503	SI	14	1.0932	-.0887	-.0007	-.0037
23	VKA	2.503	P	15	1.0751	-.0732	.0022	-.0039
23	VKA	2.503	S	16	1.0892	-.0867	.0018	-.0042

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
23	VKA	2.503	CL	17	1.0663	-.0663	.0047	-.0047
23	VKA	2.503	K	19	1.0716	-.0705	.0017	-.0028
23	VKA	2.503	CA	20	1.0855	-.0831	-.0019	-.0006
23	VKA	2.503	SC	21	1.0509	-.0503	-.0001	-.0005
23	VKA	2.503	TI	22	1.0113	-.0095	-.0049	.0031
23	VKA	2.503	CR	24	.9915	.0449	-.0658	.0296
23	VKA	2.503	MN	25	.8981	.2731	-.2973	.1271
23	VKA	2.503	FE	26	.9463	.1501	-.1644	.0685
23	VKA	2.503	CO	27	.9665	.0781	-.0743	.0300
23	VKA	2.503	NI	28	1.0024	.0160	-.0300	.0117
23	VKA	2.503	CU	29	.9899	.0152	-.0079	.0028
23	VKA	2.503	ZN	30	.9959	.0051	-.0012	.0002
23	VKA	2.503	GA	31	.9798	.0219	-.0017	.0000
23	VKA	2.503	GE	32	.9746	.0278	-.0025	.0001
23	VKA	2.503	Y	39	.9683	.0370	-.0049	-.0004
23	VKA	2.503	ZR	40	.9677	.0385	-.0063	.0001
23	VKA	2.503	NB	41	.9704	.0369	-.0087	.0013
23	VKA	2.503	MO	42	.9663	.0431	-.0119	.0025
23	VKA	2.503	PD	46	.9606	.0532	-.0168	.0029
23	VKA	2.503	AG	47	.9644	.0491	-.0155	.0021
23	VKA	2.503	CD	48	.9551	.0612	-.0188	.0025
23	VKA	2.503	SN	50	.9495	.0700	-.0219	.0024
23	VKA	2.503	SB	51	.9471	.0741	-.0238	.0026
23	VKA	2.503	CS	55	.9056	.1141	-.0224	.0026
23	VKA	2.503	BA	56	.8981	.1243	-.0256	.0032
23	VKA	2.503	LA	57	.9001	.1224	-.0259	.0033
23	VKA	2.503	CE	58	.9033	.1190	-.0256	.0032
23	VKA	2.503	HF	72	.8840	.1547	-.0458	.0071
23	VKA	2.503	TA	73	.8842	.1559	-.0480	.0079
23	VKA	2.503	W	74	.8830	.1586	-.0499	.0083
23	VKA	2.503	RE	75	.8832	.1594	-.0511	.0086
23	VKA	2.503	PT	78	.8796	.1677	-.0573	.0099
23	VKA	2.503	AU	79	.8810	.1671	-.0584	.0103
23	VKA	2.503	PB	82	.8755	.1788	-.0664	.0122
23	VKA	2.503	TH	90	.8646	.2037	-.0847	.0165
23	VKA	2.503	U	92	.8574	.2127	-.0876	.0175
23	VLA	24.395	B	5	1.3061	-.5022	.3443	-.1491
23	VLA	24.395	C	6	1.6497	-.9682	.5309	-.2135
23	VLA	24.395	N	7	2.0285	-1.4959	.7677	-.3016
23	VLA	24.395	O	8	.9271	.1347	-.0643	.0026
23	VLA	24.395	F	9	.9319	.1220	-.0736	.0200
23	VLA	24.395	NA	11	1.0452	-.0391	-.0030	-.0031
23	VLA	24.395	MG	12	1.1332	-.1394	.0125	-.0064
23	VLA	24.395	AL	13	1.2056	-.2266	.0303	-.0093
23	VLA	24.395	SI	14	1.3225	-.3478	.0348	-.0094

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
23	VLA	24.395	P	15	1.4160	-.4468	.0454	-.0146
23	VLA	24.395	S	16	1.5576	-.5852	.0445	-.0168
23	VLA	24.395	CL	17	1.6664	-.6899	.0540	-.0305
23	VLA	24.395	K	19	1.9801	-.9789	.0588	-.0597
23	VLA	24.395	CA	20	2.1708	-1.1522	.0595	-.0775
23	VLA	24.395	SC	21	2.2993	-1.2552	.0765	-.1197
23	VLA	24.395	TI	22	2.4234	-1.3515	.0771	-.1477
23	VLA	24.395	CR	24	1.0396	-.0394	-.0002	-.0000
23	VLA	24.395	MN	25	1.0688	-.0667	-.0020	-.0001
23	VLA	24.395	FE	26	1.1220	-.1180	-.0036	-.0004
23	VLA	24.395	CO	27	1.1592	-.1494	-.0086	-.0012
23	VLA	24.395	NI	28	1.2297	-.2174	-.0098	-.0025
23	VLA	24.395	CU	29	1.2555	-.2305	-.0205	-.0045
23	VLA	24.395	ZN	30	1.3104	-.2763	-.0265	-.0075
23	VLA	24.395	GA	31	1.3432	-.2912	-.0413	-.0106
23	VLA	24.395	GE	32	1.3911	-.3242	-.0514	-.0155
23	VLA	24.395	Y	39	1.7801	-.5853	-.1103	-.0840
23	VLA	24.395	ZR	40	1.8404	-.6228	-.1173	-.0997
23	VLA	24.395	NB	41	1.7014	-.5199	-.1094	-.0718
23	VLA	24.395	MO	42	1.7569	-.5485	-.1222	-.0857
23	VLA	24.395	PD	46	1.6826	-.4624	-.1441	-.0756
23	VLA	24.395	AG	47	1.7414	-.5013	-.1494	-.0900
23	VLA	24.395	CD	48	1.7817	-.5050	-.1736	-.1023
23	VLA	24.395	SN	50	1.0788	-.0151	-.0764	.0128
23	VLA	24.395	SB	51	1.0881	-.0157	-.0866	.0143
23	VLA	24.395	CS	55	1.1337	-.0216	-.1334	.0216
23	VLA	24.395	BA	56	1.1393	-.0112	-.1530	.0252
23	VLA	24.395	LA	57	1.1561	-.0180	-.1657	.0279
23	VLA	24.395	CE	58	1.1742	-.0256	-.1796	.0313
23	VLA	24.395	HF	72	1.3430	.0017	-.3740	.0298
23	VLA	24.395	TA	73	1.3560	-.0022	-.3756	.0221
23	VLA	24.395	W	74	1.3677	-.0036	-.3779	.0142
23	VLA	24.395	RE	75	1.3813	-.0099	-.3746	.0035
23	VLA	24.395	PT	78	1.4174	-.0163	-.3757	-.0255
23	VLA	24.395	AU	79	1.4337	-.0266	-.3694	-.0378
23	VLA	24.395	PB	82	1.4707	-.0291	-.3694	-.0725
23	VLA	24.395	TH	90	1.6125	-.0666	-.3495	-.1960
23	VLA	24.395	U	92	1.6594	-.0831	-.3355	-.2412
24	CRKA	2.290	B	5	1.0993	-.0872	-.0111	-.0010
24	CRKA	2.290	C	6	1.1334	-.1168	-.0140	-.0026
24	CRKA	2.290	N	7	1.1253	-.1109	-.0116	-.0028
24	CRKA	2.290	O	8	1.1180	-.1057	-.0093	-.0030
24	CRKA	2.290	F	9	1.0815	-.0754	-.0030	-.0031
24	CRKA	2.290	NA	11	1.0751	-.0707	-.0011	-.0033
24	CRKA	2.290	MG	12	1.0868	-.0803	-.0044	-.0020

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
24	CRKA	2.290	AL	13	1.0694	-.0652	-.0026	-.0015
24	CRKA	2.290	SI	14	1.0837	-.0786	-.0034	-.0017
24	CRKA	2.290	P	15	1.0649	-.0621	-.0015	-.0014
24	CRKA	2.290	S	16	1.0779	-.0742	-.0026	-.0011
24	CRKA	2.290	CL	17	1.0542	-.0528	-.0007	-.0008
24	CRKA	2.290	K	19	1.0573	-.0559	-.0017	.0002
24	CRKA	2.290	CA	20	1.0699	-.0679	-.0027	.0007
24	CRKA	2.290	SC	21	1.0344	-.0337	-.0022	.0015
24	CRKA	2.290	TI	22	1.0250	-.0256	.0007	-.0001
24	CRKA	2.290	V	23	.9915	.0085	.0000	.0000
24	CRKA	2.290	MN	25	.9719	.0667	-.0695	.0312
24	CRKA	2.290	FE	26	.8963	.2771	-.3007	.1283
24	CRKA	2.290	CO	27	.9331	.1540	-.1487	.0620
24	CRKA	2.290	NI	28	.9796	.0591	-.0649	.0263
24	CRKA	2.290	CU	29	.9751	.0361	-.0179	.0068
24	CRKA	2.290	ZN	30	.9840	.0178	-.0025	.0007
24	CRKA	2.290	GA	31	.9682	.0338	-.0020	.0001
24	CRKA	2.290	GE	32	.9626	.0401	-.0028	.0001
24	CRKA	2.290	Y	39	.9527	.0537	-.0068	.0004
24	CRKA	2.290	ZR	40	.9518	.0543	-.0055	-.0006
24	CRKA	2.290	NB	41	.9540	.0532	-.0077	.0006
24	CRKA	2.290	MO	42	.9495	.0596	-.0105	.0015
24	CRKA	2.290	PD	46	.9416	.0711	-.0140	.0013
24	CRKA	2.290	AG	47	.9448	.0684	-.0151	.0019
24	CRKA	2.290	CD	48	.9351	.0808	-.0182	.0023
24	CRKA	2.290	SN	50	.9284	.0905	-.0214	.0024
24	CRKA	2.290	SB	51	.9255	.0942	-.0213	.0016
24	CRKA	2.290	CS	55	.9151	.1091	-.0265	.0023
24	CRKA	2.290	BA	56	.9000	.1256	-.0286	.0030
24	CRKA	2.290	LA	57	.8870	.1362	-.0268	.0036
24	CRKA	2.290	CE	58	.8900	.1324	-.0252	.0028
24	CRKA	2.290	HF	72	.8672	.1714	-.0461	.0075
24	CRKA	2.290	TA	73	.8674	.1729	-.0486	.0083
24	CRKA	2.290	W	74	.8660	.1757	-.0504	.0087
24	CRKA	2.290	RE	75	.8659	.1768	-.0516	.0090
24	CRKA	2.290	PT	78	.8614	.1858	-.0573	.0101
24	CRKA	2.290	AU	79	.8625	.1853	-.0580	.0103
24	CRKA	2.290	PB	82	.8560	.1977	-.0662	.0126
24	CRKA	2.290	TH	90	.8470	.2212	-.0851	.0170
24	CRKA	2.290	U	92	.8417	.2287	-.0880	.0176
24	CRLA	21.765	B	5	1.2075	-.3434	.2464	-.1112
24	CRLA	21.765	C	6	1.4750	-.7009	.3859	-.1610
24	CRLA	21.765	N	7	1.7617	-1.0990	.5633	-.2271
24	CRLA	21.765	O	8	2.1056	-1.5556	.7534	-.3045
24	CRLA	21.765	F	9	.9219	.1390	-.0908	.0302

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
24	CRLA	21.765	NA	11	1.0097	.0037	-.0146	.0012
24	CRLA	21.765	MG	12	1.0805	-.0790	.0025	-.0040
24	CRLA	21.765	AL	13	1.1337	-.1467	.0202	-.0072
24	CRLA	21.765	SI	14	1.2277	-.2455	.0256	-.0079
24	CRLA	21.765	P	15	1.2974	-.3215	.0353	-.0112
24	CRLA	21.765	S	16	1.4109	-.4338	.0351	-.0122
24	CRLA	21.765	CL	17	1.4918	-.5124	.0414	-.0208
24	CRLA	21.765	K	19	1.7390	-.7411	.0415	-.0392
24	CRLA	21.765	CA	20	1.8917	-.8805	.0400	-.0509
24	CRLA	21.765	SC	21	1.9843	-.9513	.0485	-.0810
24	CRLA	21.765	TI	22	2.1205	-1.0637	.0529	-.1089
24	CRLA	21.765	V	23	2.1907	-1.1086	.0456	-.1267
24	CRLA	21.765	MN	25	1.0216	-.0208	-.0008	-.0000
24	CRLA	21.765	FE	26	1.0657	-.0639	-.0017	-.0001
24	CRLA	21.765	CO	27	1.0937	-.0882	-.0052	-.0003
24	CRLA	21.765	NI	28	1.1536	-.1467	-.0059	-.0009
24	CRLA	21.765	CU	29	1.1703	-.1542	-.0143	-.0018
24	CRLA	21.765	ZN	30	1.2147	-.1922	-.0192	-.0033
24	CRLA	21.765	GA	31	1.2377	-.2008	-.0326	-.0043
24	CRLA	21.765	GE	32	1.2757	-.2275	-.0411	-.0070
24	CRLA	21.765	Y	39	1.5904	-.4416	-.0992	-.0493
24	CRLA	21.765	ZR	40	1.6392	-.4720	-.1074	-.0595
24	CRLA	21.765	NB	41	1.6943	-.5104	-.1119	-.0716
24	CRLA	21.765	MO	42	1.7405	-.5326	-.1236	-.0838
24	CRLA	21.765	PD	46	1.5124	-.3440	-.1250	-.0432
24	CRLA	21.765	AG	47	1.5611	-.3771	-.1309	-.0528
24	CRLA	21.765	CD	48	1.5922	-.3786	-.1526	-.0606
24	CRLA	21.765	SN	50	1.1397	-.0588	-.0860	.0052
24	CRLA	21.765	SB	51	1.0396	.0180	-.0688	.0113
24	CRLA	21.765	CS	55	1.0774	.0101	-.1034	.0160
24	CRLA	21.765	BA	56	1.0813	.0185	-.1178	.0182
24	CRLA	21.765	LA	57	1.0962	.0101	-.1252	.0190
24	CRLA	21.765	CE	58	1.1125	-.0001	-.1319	.0197
24	CRLA	21.765	HF	72	1.2509	.0594	-.3859	.0767
24	CRLA	21.765	TA	73	1.2612	.0621	-.3997	.0774
24	CRLA	21.765	W	74	1.2702	.0671	-.4138	.0777
24	CRLA	21.765	RE	75	1.2808	.0686	-.4249	.0765
24	CRLA	21.765	PT	78	1.3091	.0793	-.4572	.0699
24	CRLA	21.765	AU	79	1.3224	.0749	-.4608	.0645
24	CRLA	21.765	PB	82	1.3512	.0865	-.4853	.0485
24	CRLA	21.765	TH	90	1.4664	.0822	-.5186	-.0296
24	CRLA	21.765	U	92	1.5050	.0765	-.5235	-.0577
25	MNKA	2.102	B	5	1.1149	-.0990	-.0171	.0009
25	MNKA	2.102	C	6	1.1501	-.1339	-.0103	-.0063
25	MNKA	2.102	N	7	1.1416	-.1280	-.0066	-.0073

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
25	MNKA	2.102	O	8	1.1338	-.1244	.0011	-.0109
25	MNKA	2.102	F	9	1.0962	-.0908	.0019	-.0078
25	MNKA	2.102	NA	11	1.0883	-.0828	.0000	-.0061
25	MNKA	2.102	MG	12	1.0990	-.0862	-.0155	.0023
25	MNKA	2.102	AL	13	1.0812	-.0726	-.0110	.0019
25	MNKA	2.102	SI	14	1.0955	-.0883	-.0064	-.0013
25	MNKA	2.102	P	15	1.0756	-.0699	-.0073	.0011
25	MNKA	2.102	S	16	1.0879	-.0815	-.0078	.0009
25	MNKA	2.102	CL	17	1.0631	-.0584	-.0085	.0033
25	MNKA	2.102	K	19	1.0645	-.0591	-.0125	.0068
25	MNKA	2.102	CA	20	1.0762	-.0697	-.0158	.0092
25	MNKA	2.102	SC	21	1.0395	-.0370	-.0110	.0083
25	MNKA	2.102	TI	22	1.0292	-.0332	.0048	-.0011
25	MNKA	2.102	V	23	1.0181	-.0175	-.0040	.0032
25	MNKA	2.102	CR	24	1.0092	-.0084	-.0046	.0037
25	MNKA	2.102	FE	26	.9873	.0566	-.0790	.0353
25	MNKA	2.102	CO	27	.8989	.2677	-.2888	.1231
25	MNKA	2.102	NI	28	.9645	.1167	-.1389	.0581
25	MNKA	2.102	CU	29	.9748	.0493	-.0404	.0164
25	MNKA	2.102	ZN	30	.9904	.0124	-.0045	.0017
25	MNKA	2.102	GA	31	.9750	.0261	-.0011	.0000
25	MNKA	2.102	GE	32	.9690	.0327	-.0017	.0001
25	MNKA	2.102	Y	39	.9560	.0485	-.0048	.0003
25	MNKA	2.102	ZR	40	.9545	.0505	-.0054	.0003
25	MNKA	2.102	NB	41	.9561	.0511	-.0099	.0028
25	MNKA	2.102	MO	42	.9509	.0582	-.0130	.0039
25	MNKA	2.102	PD	46	.9415	.0674	-.0081	-.0009
25	MNKA	2.102	AG	47	.9444	.0644	-.0080	-.0008
25	MNKA	2.102	CD	48	.9342	.0760	-.0083	-.0019
25	MNKA	2.102	SN	50	.9266	.0855	-.0099	-.0023
25	MNKA	2.102	SB	51	.9233	.0908	-.0131	-.0010
25	MNKA	2.102	CS	55	.9156	.1031	-.0186	-.0002
25	MNKA	2.102	BA	56	.9050	.1158	-.0213	.0005
25	MNKA	2.102	LA	57	.9074	.1134	-.0214	.0006
25	MNKA	2.102	CE	58	.9043	.1153	-.0202	.0006
25	MNKA	2.102	HF	72	.8663	.1682	-.0424	.0079
25	MNKA	2.102	TA	73	.8669	.1694	-.0450	.0088
25	MNKA	2.102	W	74	.8655	.1710	-.0444	.0079
25	MNKA	2.102	RE	75	.8651	.1720	-.0456	.0085
25	MNKA	2.102	PT	78	.8600	.1808	-.0497	.0090
25	MNKA	2.102	AU	79	.8607	.1805	-.0503	.0091
25	MNKA	2.102	PB	82	.8533	.1934	-.0574	.0108
25	MNKA	2.102	TH	90	.8416	.2176	-.0740	.0149
25	MNKA	2.102	U	92	.8396	.2224	-.0772	.0153
25	MNLA	19.536	B	5	1.1538	-.2417	.1693	-.0819

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
25	MNLA	19.536	C	6	1.3684	-.5228	.2721	-.1184
25	MNLA	19.536	N	7	1.5906	-.8303	.4031	-.1642
25	MNLA	19.536	O	8	1.8584	-1.1832	.5416	-.2177
25	MNLA	19.536	F	9	.9269	.1539	-.1275	.0474
25	MNLA	19.536	NA	11	.9976	.0287	-.0336	.0074
25	MNLA	19.536	MG	12	1.0566	-.0434	-.0127	-.0005
25	MNLA	19.536	AL	13	1.0959	-.0986	.0071	-.0044
25	MNLA	19.536	SI	14	1.1736	-.1817	.0136	-.0055
25	MNLA	19.536	P	15	1.2258	-.2423	.0240	-.0074
25	MNLA	19.536	S	16	1.3192	-.3363	.0245	-.0074
25	MNLA	19.536	CL	17	1.3796	-.3980	.0306	-.0122
25	MNLA	19.536	K	19	1.5791	-.5860	.0288	-.0218
25	MNLA	19.536	CA	20	1.7047	-.7020	.0253	-.0279
25	MNLA	19.536	SC	21	1.7718	-.7534	.0305	-.0487
25	MNLA	19.536	TI	22	1.8793	-.8426	.0315	-.0678
25	MNLA	19.536	V	23	1.9924	-.9336	.0324	-.0907
25	MNLA	19.536	CR	24	2.0565	-.9835	.0246	-.0969
25	MNLA	19.536	FE	26	1.0375	-.0374	-.0001	-.0000
25	MNLA	19.536	CO	27	1.0585	-.0570	-.0015	-.0001
25	MNLA	19.536	NI	28	1.1105	-.1086	-.0017	-.0003
25	MNLA	19.536	CU	29	1.1202	-.1129	-.0066	-.0006
25	MNLA	19.536	ZN	30	1.1568	-.1457	-.0098	-.0013
25	MNLA	19.536	GA	31	1.1719	-.1497	-.0214	-.0008
25	MNLA	19.536	GE	32	1.2024	-.1729	-.0269	-.0026
25	MNLA	19.536	Y	39	1.4620	-.3599	-.0737	-.0283
25	MNLA	19.536	ZR	40	1.5025	-.3864	-.0811	-.0349
25	MNLA	19.536	NB	41	1.5487	-.4200	-.0857	-.0427
25	MNLA	19.536	MO	42	1.5863	-.4391	-.0962	-.0508
25	MNLA	19.536	PD	46	1.6163	-.4343	-.1193	-.0623
25	MNLA	19.536	AG	47	1.4384	-.3101	-.0978	-.0304
25	MNLA	19.536	CD	48	1.4627	-.3112	-.1159	-.0354
25	MNLA	19.536	SN	50	1.5314	-.3396	-.1417	-.0498
25	MNLA	19.536	SB	51	1.5680	-.3545	-.1549	-.0582
25	MNLA	19.536	CS	55	1.0446	.0176	-.0739	.0118
25	MNLA	19.536	BA	56	1.0470	.0248	-.0852	.0134
25	MNLA	19.536	LA	57	1.0601	.0162	-.0902	.0139
25	MNLA	19.536	CE	58	1.0747	.0058	-.0946	.0143
25	MNLA	19.536	HF	72	1.1970	.0202	-.2591	.0424
25	MNLA	19.536	TA	73	1.2057	.0246	-.2768	.0472
25	MNLA	19.536	W	74	1.2128	.0334	-.2996	.0541
25	MNLA	19.536	RE	75	1.2212	.0425	-.3268	.0639
25	MNLA	19.536	PT	78	1.2428	.0696	-.3930	.0817
25	MNLA	19.536	AU	79	1.2535	.0734	-.4122	.0866
25	MNLA	19.536	PB	82	1.2756	.0998	-.4684	.0944
25	MNLA	19.536	TH	90	1.3690	.1316	-.5729	.0737

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
25	MNLA	19.536	U	92	1.4009	.1328	-.5894	.0570
26	FEKA	1.936	B	5	1.1117	-.0942	-.0198	.0023
26	FEKA	1.936	C	6	1.1464	-.1284	-.0144	-.0035
26	FEKA	1.936	N	7	1.1390	-.1326	.0100	-.0166
26	FEKA	1.936	O	8	1.1308	-.1270	.0149	-.0190
26	FEKA	1.936	F	9	1.0929	-.0941	.0196	-.0187
26	FEKA	1.936	NA	11	1.0830	-.0777	.0045	-.0104
26	FEKA	1.936	MG	12	1.0931	-.0799	-.0126	-.0009
26	FEKA	1.936	AL	13	1.0745	-.0600	-.0217	.0070
26	FEKA	1.936	SI	14	1.0883	-.0738	-.0218	.0072
26	FEKA	1.936	P	15	1.0690	-.0620	-.0099	.0028
26	FEKA	1.936	S	16	1.0806	-.0729	-.0104	.0025
26	FEKA	1.936	CL	17	1.0552	-.0488	-.0121	.0056
26	FEKA	1.936	K	19	1.0550	-.0486	-.0164	.0100
26	FEKA	1.936	CA	20	1.0660	-.0601	-.0151	.0093
26	FEKA	1.936	SC	21	1.0290	-.0305	-.0008	.0024
26	FEKA	1.936	TI	22	1.0177	-.0255	.0161	-.0084
26	FEKA	1.936	V	23	1.0054	-.0054	.0000	-.0000
26	FEKA	1.936	CR	24	1.0146	-.0146	.0000	-.0000
26	FEKA	1.936	MN	25	.9915	.0085	-.0000	.0000
26	FEKA	1.936	CO	27	.9679	.0752	-.0772	.0344
26	FEKA	1.936	NI	28	.9171	.2358	-.2670	.1151
26	FEKA	1.936	CU	29	.9515	.1027	-.0972	.0433
26	FEKA	1.936	ZN	30	.9791	.0311	-.0190	.0088
26	FEKA	1.936	GA	31	.9654	.0393	-.0076	.0028
26	FEKA	1.936	GE	32	.9590	.0452	-.0048	.0004
26	FEKA	1.936	Y	39	.9436	.0604	.0018	-.0059
26	FEKA	1.936	ZR	40	.9418	.0627	.0013	-.0058
26	FEKA	1.936	NB	41	.9427	.0649	-.0057	-.0020
26	FEKA	1.936	MO	42	.9372	.0730	-.0098	-.0003
26	FEKA	1.936	PD	46	.9258	.0851	-.0067	-.0044
26	FEKA	1.936	AG	47	.9283	.0804	-.0011	-.0077
26	FEKA	1.936	CD	48	.9183	.0904	.0012	-.0100
26	FEKA	1.936	SN	50	.9102	.0984	.0041	-.0128
26	FEKA	1.936	SB	51	.9066	.1036	.0020	-.0122
26	FEKA	1.936	CS	55	.8977	.1147	.0005	-.0130
26	FEKA	1.936	BA	56	.8903	.1249	-.0032	-.0121
26	FEKA	1.936	LA	57	.8924	.1240	-.0060	-.0104
26	FEKA	1.936	CE	58	.8928	.1232	-.0058	-.0101
26	FEKA	1.936	HF	72	.8502	.1829	-.0345	.0015
26	FEKA	1.936	TA	73	.8518	.1830	-.0380	.0034
26	FEKA	1.936	W	74	.8502	.1857	-.0393	.0036
26	FEKA	1.936	RE	75	.8495	.1880	-.0421	.0048
26	FEKA	1.936	PT	78	.8437	.1977	-.0467	.0055
26	FEKA	1.936	AU	79	.8442	.1975	-.0470	.0055

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
26	FEKA	1.936	PB	82	.8365	.2085	-.0498	.0050
26	FEKA	1.936	TH	90	.8227	.2340	-.0660	.0097
26	FEKA	1.936	U	92	.8202	.2384	-.0674	.0092
26	FELA	17.629	B	5	1.0981	-.1566	.1200	-.0619
26	FELA	17.629	C	6	1.2697	-.3776	.1987	-.0914
26	FELA	17.629	N	7	1.4398	-.6140	.2994	-.1260
26	FELA	17.629	O	8	1.6465	-.8859	.4044	-.1658
26	FELA	17.629	F	9	1.8462	-1.1616	.5467	-.2321
26	FELA	17.629	NA	11	.9736	.0610	-.0502	.0157
26	FELA	17.629	MG	12	1.0228	-.0030	-.0239	.0042
26	FELA	17.629	AL	13	1.0510	-.0478	-.0015	-.0017
26	FELA	17.629	SI	14	1.1150	-.1175	.0066	-.0041
26	FELA	17.629	P	15	1.1528	-.1643	.0174	-.0059
26	FELA	17.629	S	16	1.2291	-.2421	.0190	-.0061
26	FELA	17.629	CL	17	1.2728	-.2885	.0247	-.0090
26	FELA	17.629	K	19	1.4320	-.4405	.0229	-.0143
26	FELA	17.629	CA	20	1.5345	-.5362	.0194	-.0177
26	FELA	17.629	SC	21	1.5813	-.5705	.0206	-.0313
26	FELA	17.629	TI	22	1.6652	-.6396	.0185	-.0439
26	FELA	17.629	V	23	1.7535	-.7095	.0156	-.0593
26	FELA	17.629	CR	24	1.8753	-.8158	.0156	-.0747
26	FELA	17.629	MN	25	1.8858	-.8103	.0046	-.0796
26	FELA	17.629	CO	27	1.0152	-.0146	-.0006	-.0000
26	FELA	17.629	NI	28	1.0601	-.0593	-.0007	-.0001
26	FELA	17.629	CU	29	1.0639	-.0596	-.0041	-.0001
26	FELA	17.629	ZN	30	1.0936	-.0868	-.0065	-.0004
26	FELA	17.629	GA	31	1.1019	-.0849	-.0186	.0016
26	FELA	17.629	GE	32	1.1259	-.1040	-.0222	.0003
26	FELA	17.629	Y	39	1.3368	-.2597	-.0626	-.0145
26	FELA	17.629	ZR	40	1.3699	-.2817	-.0698	-.0184
26	FELA	17.629	NB	41	1.4082	-.3100	-.0750	-.0232
26	FELA	17.629	MO	42	1.4385	-.3251	-.0852	-.0281
26	FELA	17.629	PD	46	1.4624	-.3206	-.1069	-.0348
26	FELA	17.629	AG	47	1.5067	-.3519	-.1118	-.0428
26	FELA	17.629	CD	48	1.4156	-.2732	-.1136	-.0286
26	FELA	17.629	SN	50	1.3912	-.2407	-.1247	-.0256
26	FELA	17.629	SB	51	1.4209	-.2526	-.1374	-.0307
26	FELA	17.629	CS	55	1.0003	.0521	-.0631	.0107
26	FELA	17.629	BA	56	1.0013	.0590	-.0723	.0121
26	FELA	17.629	LA	57	1.0126	.0512	-.0764	.0126
26	FELA	17.629	CE	58	1.0253	.0414	-.0796	.0129
26	FELA	17.629	HF	72	1.1284	.0440	-.2040	.0319
26	FELA	17.629	TA	73	1.1362	.0449	-.2146	.0338
26	FELA	17.629	W	74	1.1428	.0485	-.2272	.0363
26	FELA	17.629	RE	75	1.1509	.0495	-.2385	.0385

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
26	FELA	17.629	PT	78	1.1706	.0643	-.2823	.0480
26	FELA	17.629	AU	79	1.1804	.0647	-.2955	.0511
26	FELA	17.629	PB	82	1.1982	.0940	-.3594	.0682
26	FELA	17.629	TH	90	1.2709	.1733	-.5588	.1163
26	FELA	17.629	U	92	1.2968	.1857	-.5984	.1177
27	COKA	1.789	B	5	1.1300	-.1062	-.0291	.0055
27	COKA	1.789	C	6	1.1654	-.1416	-.0234	-.0002
27	COKA	1.789	N	7	1.1573	-.1430	-.0052	-.0089
27	COKA	1.789	O	8	1.1510	-.1540	.0323	-.0297
27	COKA	1.789	F	9	1.1119	-.1212	.0414	-.0327
27	COKA	1.789	NA	11	1.0998	-.0973	.0175	-.0209
27	COKA	1.789	MG	12	1.1089	-.0931	-.0113	-.0051
27	COKA	1.789	AL	13	1.0894	-.0712	-.0242	.0055
27	COKA	1.789	SI	14	1.1023	-.0773	-.0403	.0149
27	COKA	1.789	P	15	1.0814	-.0563	-.0481	.0230
27	COKA	1.789	S	16	1.0943	-.0741	-.0392	.0190
27	COKA	1.789	CL	17	1.0691	-.0578	-.0250	.0137
27	COKA	1.789	K	19	1.0677	-.0589	-.0247	.0162
27	COKA	1.789	CA	20	1.0781	-.0714	-.0196	.0132
27	COKA	1.789	SC	21	1.0402	-.0465	.0085	-.0020
27	COKA	1.789	TI	22	1.0278	-.0409	.0276	-.0146
27	COKA	1.789	V	23	1.0135	-.0134	-.0001	-.0000
27	COKA	1.789	CR	24	1.0220	-.0219	-.0001	-.0000
27	COKA	1.789	MN	25	1.0122	-.0123	.0000	-.0000
27	COKA	1.789	FE	26	1.0112	-.0111	-.0001	-.0000
27	COKA	1.789	NI	28	.9947	.0509	-.0815	.0362
27	COKA	1.789	CU	29	.9290	.1822	-.1942	.0837
27	COKA	1.789	ZN	30	.9838	.0305	-.0245	.0104
27	COKA	1.789	GA	31	.9760	.0191	.0085	-.0035
27	COKA	1.789	GE	32	.9689	.0322	-.0058	.0048
27	COKA	1.789	Y	39	.9498	.0593	-.0130	.0037
27	COKA	1.789	ZR	40	.9476	.0601	-.0076	-.0004
27	COKA	1.789	NB	41	.9478	.0652	-.0193	.0061
27	COKA	1.789	MO	42	.9416	.0748	-.0252	.0087
27	COKA	1.789	PD	46	.9287	.0841	-.0100	-.0032
27	COKA	1.789	AG	47	.9308	.0790	-.0027	-.0076
27	COKA	1.789	CD	48	.9203	.0863	.0087	-.0157
27	COKA	1.789	SN	50	.9113	.0974	.0058	-.0150
27	COKA	1.789	SB	51	.9075	.0995	.0109	-.0183
27	COKA	1.789	CS	55	.8981	.1054	.0215	-.0254
27	COKA	1.789	BA	56	.8902	.1158	.0177	-.0242
27	COKA	1.789	LA	57	.8923	.1119	.0207	-.0252
27	COKA	1.789	CE	58	.8949	.1096	.0196	-.0245
27	COKA	1.789	HF	72	.8486	.1786	-.0231	-.0038
27	COKA	1.789	TA	73	.8526	.1760	-.0265	-.0019

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
27	COKA	1.789	W	74	.8511	.1784	-.0274	-.0019
27	COKA	1.789	RE	75	.8503	.1797	-.0279	-.0019
27	COKA	1.789	PT	78	.8437	.1922	-.0390	.0034
27	COKA	1.789	AU	79	.8440	.1921	-.0390	.0032
27	COKA	1.789	PB	82	.8354	.2046	-.0435	.0038
27	COKA	1.789	TH	90	.8200	.2267	-.0472	.0006
27	COKA	1.789	U	92	.8169	.2314	-.0482	.0003
27	COLA	15.988	B	5	1.0772	-.1094	.0790	-.0471
27	COLA	15.988	C	6	1.2193	-.2884	.1389	-.0702
27	COLA	15.988	N	7	1.3530	-.4753	.2166	-.0949
27	COLA	15.988	O	8	1.5168	-.6909	.2957	-.1222
27	COLA	15.988	F	9	1.6697	-.9046	.4028	-.1687
27	COLA	15.988	NA	11	.9721	.0797	-.0796	.0281
27	COLA	15.988	MG	12	1.0151	.0178	-.0436	.0109
27	COLA	15.988	AL	13	1.0357	-.0225	-.0151	.0020
27	COLA	15.988	SI	14	1.0903	-.0839	-.0043	-.0020
27	COLA	15.988	P	15	1.1178	-.1220	.0082	-.0040
27	COLA	15.988	S	16	1.1820	-.1888	.0110	-.0043
27	COLA	15.988	CL	17	1.2133	-.2253	.0179	-.0059
27	COLA	15.988	K	19	1.3437	-.3533	.0177	-.0081
27	COLA	15.988	CA	20	1.4298	-.4351	.0145	-.0092
27	COLA	15.988	SC	21	1.4618	-.4596	.0159	-.0181
27	COLA	15.988	TI	22	1.5287	-.5160	.0133	-.0259
27	COLA	15.988	V	23	1.5994	-.5730	.0095	-.0358
27	COLA	15.988	CR	24	1.7014	-.6631	.0071	-.0453
27	COLA	15.988	MN	25	1.7823	-.7261	.0044	-.0603
27	COLA	15.988	FE	26	1.8025	-.7400	-.0032	-.0590
27	COLA	15.988	NI	28	1.0400	-.0400	.0001	-.0000
27	COLA	15.988	CU	29	1.0391	-.0379	-.0012	-.0000
27	COLA	15.988	ZN	30	1.0639	-.0614	-.0024	-.0001
27	COLA	15.988	GA	31	1.0661	-.0537	-.0163	.0038
27	COLA	15.988	GE	32	1.0854	-.0709	-.0167	.0022
27	COLA	15.988	Y	39	1.2608	-.2100	-.0433	-.0076
27	COLA	15.988	ZR	40	1.2885	-.2295	-.0491	-.0099
27	COLA	15.988	NB	41	1.3211	-.2548	-.0534	-.0128
27	COLA	15.988	MO	42	1.3458	-.2680	-.0619	-.0158
27	COLA	15.988	PD	46	1.4663	-.3385	-.0934	-.0342
27	COLA	15.988	AG	47	1.5064	-.3678	-.0971	-.0413
27	COLA	15.988	CD	48	1.4238	-.2945	-.0998	-.0293
27	COLA	15.988	SN	50	1.3766	-.2471	-.1060	-.0234
27	COLA	15.988	SB	51	1.3278	-.2072	-.1037	-.0169
27	COLA	15.988	CS	55	1.4400	-.2588	-.1454	-.0355
27	COLA	15.988	BA	56	.9815	.0631	-.0540	.0095
27	COLA	15.988	LA	57	.9915	.0555	-.0569	.0099
27	COLA	15.988	CE	58	1.0028	.0463	-.0593	.0102

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
27	COLA	15.988	HF	72	1.0897	.0406	-.1547	.0245
27	COLA	15.988	TA	73	1.0966	.0403	-.1625	.0258
27	COLA	15.988	W	74	1.1023	.0423	-.1717	.0273
27	COLA	15.988	RE	75	1.1095	.0418	-.1798	.0287
27	COLA	15.988	PT	78	1.1267	.0503	-.2111	.0344
27	COLA	15.988	AU	79	1.1357	.0482	-.2193	.0358
27	COLA	15.988	PB	82	1.1517	.0648	-.2598	.0437
27	COLA	15.988	TH	90	1.2179	.1104	-.4002	.0729
27	COLA	15.988	U	92	1.2390	.1313	-.4580	.0890
28	NILA	14.564	B	5	1.0373	-.0588	.0573	-.0360
28	NILA	14.564	C	6	1.1537	-.2024	.1043	-.0559
28	NILA	14.564	N	7	1.2564	-.3473	.1666	-.0761
28	NILA	14.564	O	8	1.3834	-.5154	.2295	-.0980
28	NILA	14.564	F	9	1.4971	-.6769	.3122	-.1331
28	NILA	14.564	NA	11	.9476	.1140	-.1045	.0433
28	NILA	14.564	MG	12	.9853	.0533	-.0585	.0200
28	NILA	14.564	AL	13	.9998	.0169	-.0234	.0068
28	NILA	14.564	SI	14	1.0460	-.0371	-.0094	.0006
28	NILA	14.564	P	15	1.0649	-.0669	.0045	-.0025
28	NILA	14.564	S	16	1.1182	-.1229	.0083	-.0037
28	NILA	14.564	CL	17	1.1391	-.1492	.0152	-.0051
28	NILA	14.564	K	19	1.2436	-.2529	.0160	-.0067
28	NILA	14.564	CA	20	1.3147	-.3210	.0136	-.0073
28	NILA	14.564	SC	21	1.3343	-.3347	.0135	-.0130
28	NILA	14.564	TI	22	1.3864	-.3783	.0098	-.0180
28	NILA	14.564	V	23	1.4416	-.4220	.0047	-.0242
28	NILA	14.564	CR	24	1.5255	-.4962	.0011	-.0303
28	NILA	14.564	MN	25	1.5894	-.5447	-.0042	-.0403
28	NILA	14.564	FE	26	1.6821	-.6255	-.0062	-.0502
28	NILA	14.564	CO	27	1.6622	-.5959	-.0165	-.0496
28	NILA	14.564	CU	29	.9954	.0056	-.0011	.0000
28	NILA	14.564	ZN	30	1.0196	-.0135	-.0021	.0000
28	NILA	14.564	GA	31	1.0126	.0017	-.0207	.0065
28	NILA	14.564	GE	32	1.0276	-.0127	-.0192	.0044
28	NILA	14.564	Y	39	1.1701	-.1279	-.0395	-.0027
28	NILA	14.564	ZR	40	1.1927	-.1438	-.0450	-.0039
28	NILA	14.564	NB	41	1.2198	-.1650	-.0493	-.0055
28	NILA	14.564	MO	42	1.2394	-.1750	-.0573	-.0070
28	NILA	14.564	PD	46	1.3374	-.2308	-.0890	-.0176
28	NILA	14.564	AG	47	1.3710	-.2553	-.0936	-.0220
28	NILA	14.564	CD	48	1.3880	-.2531	-.1095	-.0253
28	NILA	14.564	SN	50	1.3511	-.2132	-.1170	-.0207
28	NILA	14.564	SB	51	1.2842	-.1619	-.1102	-.0121
28	NILA	14.564	CS	55	1.3127	-.1594	-.1375	-.0156
28	NILA	14.564	BA	56	1.3299	-.1571	-.1547	-.0179

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
28	NILA	14.564	LA	57	1.0300	.0374	-.0763	.0090
28	NILA	14.564	CE	58	.9600	.0871	-.0572	.0102
28	NILA	14.564	HF	72	1.0305	.0866	-.1414	.0244
28	NILA	14.564	TA	73	1.0363	.0863	-.1481	.0256
28	NILA	14.564	W	74	1.0410	.0882	-.1561	.0271
28	NILA	14.564	RE	75	1.0472	.0876	-.1630	.0283
28	NILA	14.564	PT	78	1.0615	.0948	-.1894	.0333
28	NILA	14.564	AU	79	1.0694	.0925	-.1960	.0344
28	NILA	14.564	PB	82	1.0825	.1065	-.2297	.0410
28	NILA	14.564	TH	90	1.1398	.1366	-.3352	.0595
28	NILA	14.564	U	92	1.1592	.1449	-.3678	.0644
29	CULA	13.322	B	5	1.0478	-.0498	.0308	-.0290
29	CULA	13.322	C	6	1.1489	-.1708	.0669	-.0452
29	CULA	13.322	N	7	1.2315	-.2890	.1167	-.0595
29	CULA	13.322	O	8	1.3347	-.4270	.1659	-.0741
29	CULA	13.322	F	9	1.4221	-.5563	.2315	-.0978
29	CULA	13.322	NA	11	.9648	.1205	-.1435	.0588
29	CULA	13.322	MG	12	.9988	.0635	-.0966	.0347
29	CULA	13.322	AL	13	1.0099	.0230	-.0471	.0144
29	CULA	13.322	SI	14	1.0517	-.0300	-.0260	.0044
29	CULA	13.322	P	15	1.0649	-.0572	-.0074	-.0003
29	CULA	13.322	S	16	1.1118	-.1080	-.0016	-.0022
29	CULA	13.322	CL	17	1.1254	-.1296	.0075	-.0033
29	CULA	13.322	K	19	1.2132	-.2203	.0110	-.0039
29	CULA	13.322	CA	20	1.2749	-.2808	.0095	-.0036
29	CULA	13.322	SC	21	1.2854	-.2902	.0121	-.0072
29	CULA	13.322	TI	22	1.3276	-.3277	.0101	-.0100
29	CULA	13.322	V	23	1.3725	-.3654	.0066	-.0137
29	CULA	13.322	CR	24	1.4451	-.4312	.0030	-.0168
29	CULA	13.322	MN	25	1.4977	-.4733	-.0012	-.0231
29	CULA	13.322	FE	26	1.5781	-.5449	-.0043	-.0288
29	CULA	13.322	CO	27	1.6349	-.5875	-.0086	-.0386
29	CULA	13.322	NI	28	1.6466	-.6003	-.0123	-.0338
29	CULA	13.322	ZN	30	1.0171	-.0170	-.0001	-.0000
29	CULA	13.322	GA	31	1.0093	.0039	-.0217	.0086
29	CULA	13.322	GE	32	1.0208	-.0072	-.0213	.0077
29	CULA	13.322	Y	39	1.1424	-.1183	-.0229	-.0013
29	CULA	13.322	ZR	40	1.1617	-.1332	-.0263	-.0021
29	CULA	13.322	NB	41	1.1853	-.1531	-.0290	-.0031
29	CULA	13.322	MO	42	1.2015	-.1627	-.0347	-.0041
29	CULA	13.322	PD	46	1.2847	-.2156	-.0581	-.0109
29	CULA	13.322	AG	47	1.3141	-.2387	-.0615	-.0138
29	CULA	13.322	CD	48	1.3273	-.2371	-.0741	-.0160
29	CULA	13.322	SN	50	1.2945	-.2017	-.0796	-.0131
29	CULA	13.322	SB	51	1.3170	-.2122	-.0888	-.0159

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
29	CULA	13.322	CS	55	1.2598	-.1549	-.0952	-.0097
29	CULA	13.322	BA	56	1.2736	-.1535	-.1089	-.0111
29	CULA	13.322	LA	57	1.3005	-.1717	-.1142	-.0144
29	CULA	13.322	CE	58	1.3296	-.1927	-.1183	-.0184
29	CULA	13.322	HF	72	1.0212	.0634	-.1023	.0178
29	CULA	13.322	TA	73	1.0263	.0625	-.1073	.0186
29	CULA	13.322	W	74	1.0302	.0636	-.1134	.0197
29	CULA	13.322	RE	75	1.0357	.0624	-.1186	.0206
29	CULA	13.322	PT	78	1.0479	.0668	-.1386	.0241
29	CULA	13.322	AU	79	1.0550	.0636	-.1433	.0248
29	CULA	13.322	PB	82	1.0660	.0740	-.1695	.0297
29	CULA	13.322	TH	90	1.1162	.0914	-.2500	.0427
29	CULA	13.322	U	92	1.1335	.0954	-.2744	.0459
30	ZNLA	12.232	B	5	1.0383	-.0321	.0170	-.0232
30	ZNLA	12.232	C	6	1.1254	-.1334	.0452	-.0373
30	ZNLA	12.232	N	7	1.1903	-.2279	.0860	-.0487
30	ZNLA	12.232	O	8	1.2724	-.3390	.1263	-.0600
30	ZNLA	12.232	F	9	1.3371	-.4396	.1794	-.0773
30	ZNLA	12.232	NA	11	.9831	.0426	-.0252	-.0004
30	ZNLA	12.232	MG	12	.9904	.0913	-.1352	.0541
30	ZNLA	12.232	AL	13	.9992	.0456	-.0695	.0249
30	ZNLA	12.232	SI	14	1.0371	-.0072	-.0399	.0101
30	ZNLA	12.232	P	15	1.0457	-.0324	-.0158	.0026
30	ZNLA	12.232	S	16	1.0866	-.0783	-.0075	-.0008
30	ZNLA	12.232	CL	17	1.0940	-.0948	.0032	-.0023
30	ZNLA	12.232	K	19	1.1666	-.1718	.0083	-.0032
30	ZNLA	12.232	CA	20	1.2194	-.2240	.0075	-.0029
30	ZNLA	12.232	SC	21	1.2221	-.2279	.0109	-.0052
30	ZNLA	12.232	TI	22	1.2553	-.2582	.0097	-.0068
30	ZNLA	12.232	V	23	1.2908	-.2886	.0069	-.0090
30	ZNLA	12.232	CR	24	1.3526	-.3455	.0036	-.0107
30	ZNLA	12.232	MN	25	1.3950	-.3799	-.0004	-.0146
30	ZNLA	12.232	FE	26	1.4636	-.4418	-.0038	-.0180
30	ZNLA	12.232	CO	27	1.5095	-.4765	-.0085	-.0244
30	ZNLA	12.232	NI	28	1.5963	-.5571	-.0101	-.0290
30	ZNLA	12.232	CU	29	1.5436	-.4964	-.0184	-.0288
30	ZNLA	12.232	GA	31	.9870	.0312	-.0317	.0135
30	ZNLA	12.232	GE	32	.9970	.0175	-.0237	.0093
30	ZNLA	12.232	Y	39	1.0979	-.0800	-.0181	.0001
30	ZNLA	12.232	ZR	40	1.1140	-.0931	-.0204	-.0005
30	ZNLA	12.232	NB	41	1.1343	-.1108	-.0224	-.0011
30	ZNLA	12.232	MO	42	1.1473	-.1187	-.0269	-.0017
30	ZNLA	12.232	PD	46	1.2162	-.1641	-.0464	-.0057
30	ZNLA	12.232	AG	47	1.2415	-.1845	-.0495	-.0075
30	ZNLA	12.232	CD	48	1.2512	-.1822	-.0604	-.0086

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
30	ZNLA	12.232	SN	50	1.2882	-.1987	-.0769	-.0125
30	ZNLA	12.232	SB	51	1.3083	-.2078	-.0855	-.0150
30	ZNLA	12.232	CS	55	1.2460	-.1473	-.0900	-.0086
30	ZNLA	12.232	BA	56	1.2021	-.1073	-.0905	-.0042
30	ZNLA	12.232	LA	57	1.2253	-.1235	-.0954	-.0063
30	ZNLA	12.232	CE	58	1.2504	-.1423	-.0992	-.0088
30	ZNLA	12.232	HF	72	.9931	.0786	-.0874	.0158
30	ZNLA	12.232	TA	73	.9975	.0778	-.0917	.0166
30	ZNLA	12.232	W	74	1.0007	.0788	-.0969	.0175
30	ZNLA	12.232	RE	75	1.0054	.0776	-.1012	.0183
30	ZNLA	12.232	PT	78	1.0153	.0817	-.1185	.0216
30	ZNLA	12.232	AU	79	1.0217	.0787	-.1225	.0223
30	ZNLA	12.232	PB	82	1.0304	.0880	-.1447	.0265
30	ZNLA	12.232	TH	90	1.0729	.1015	-.2119	.0377
30	ZNLA	12.232	U	92	1.0878	.1043	-.2323	.0405
31	GALA	11.270	B	5	1.0515	-.0332	.0020	-.0204
31	GALA	11.270	C	6	1.1292	-.1205	.0239	-.0327
31	GALA	11.270	N	7	1.1813	-.1980	.0576	-.0411
31	GALA	11.270	O	8	1.2480	-.2898	.0905	-.0490
31	GALA	11.270	F	9	1.2955	-.3700	.1348	-.0606
31	GALA	11.270	NA	11	1.4931	-.6035	.1900	-.0800
31	GALA	11.270	MG	12	1.0027	.1020	-.1738	.0699
31	GALA	11.270	AL	13	1.0081	.0597	-.1085	.0412
31	GALA	11.270	SI	14	1.0443	.0022	-.0650	.0188
31	GALA	11.270	P	15	1.0499	-.0254	-.0313	.0068
31	GALA	11.270	S	16	1.0871	-.0696	-.0185	.0011
31	GALA	11.270	CL	17	1.0899	-.0840	-.0047	-.0012
31	GALA	11.270	K	19	1.1516	-.1523	.0030	-.0023
31	GALA	11.270	CA	20	1.1980	-.1990	.0031	-.0021
31	GALA	11.270	SC	21	1.1944	-.1995	.0084	-.0033
31	GALA	11.270	TI	22	1.2208	-.2252	.0086	-.0041
31	GALA	11.270	V	23	1.2492	-.2511	.0072	-.0053
31	GALA	11.270	CR	24	1.3032	-.3019	.0046	-.0058
31	GALA	11.270	MN	25	1.3378	-.3316	.0020	-.0082
31	GALA	11.270	FE	26	1.3979	-.3870	-.0011	-.0097
31	GALA	11.270	CO	27	1.4356	-.4170	-.0047	-.0138
31	GALA	11.270	NI	28	1.5128	-.4897	-.0071	-.0160
31	GALA	11.270	CU	29	1.4643	-.4355	-.0122	-.0165
31	GALA	11.270	ZN	30	1.5131	-.4765	-.0157	-.0209
31	GALA	11.270	GE	32	.9948	.0257	-.0358	.0154
31	GALA	11.270	Y	39	1.0820	-.0708	-.0123	.0011
31	GALA	11.270	ZR	40	1.0958	-.0833	-.0129	.0004
31	GALA	11.270	NB	41	1.1136	-.0998	-.0136	-.0002
31	GALA	11.270	MO	42	1.1242	-.1072	-.0163	-.0007
31	GALA	11.270	PD	46	1.1824	-.1493	-.0297	-.0034

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
31	GALA	11.270	AG	47	1.2047	-.1683	-.0318	-.0046
31	GALA	11.270	CD	48	1.2116	-.1660	-.0402	-.0054
31	GALA	11.270	SN	50	1.2425	-.1814	-.0531	-.0079
31	GALA	11.270	SB	51	1.2595	-.1899	-.0600	-.0095
31	GALA	11.270	CS	55	1.2748	-.1868	-.0764	-.0116
31	GALA	11.270	BA	56	1.2142	-.1343	-.0739	-.0059
31	GALA	11.270	LA	57	1.1856	-.1143	-.0677	-.0036
31	GALA	11.270	CE	58	1.2079	-.1319	-.0706	-.0053
31	GALA	11.270	HF	72	.9881	.0655	-.0653	.0118
31	GALA	11.270	TA	73	.9918	.0645	-.0686	.0124
31	GALA	11.270	W	74	.9944	.0652	-.0728	.0132
31	GALA	11.270	RE	75	.9985	.0639	-.0761	.0138
31	GALA	11.270	PT	78	1.0067	.0669	-.0900	.0164
31	GALA	11.270	AU	79	1.0124	.0637	-.0930	.0170
31	GALA	11.270	PB	82	1.0192	.0715	-.1110	.0204
31	GALA	11.270	TH	90	1.0555	.0806	-.1654	.0295
31	GALA	11.270	U	92	1.0684	.0816	-.1813	.0315
32	GELA	10.416	B	5	1.0556	-.0309	-.0068	-.0179
32	GELA	10.416	C	6	1.1252	-.1064	.0103	-.0291
32	GELA	10.416	N	7	1.1665	-.1694	.0384	-.0357
32	GELA	10.416	O	8	1.2201	-.2446	.0660	-.0417
32	GELA	10.416	F	9	1.2531	-.3071	.1035	-.0497
32	GELA	10.416	NA	11	1.4166	-.5018	.1482	-.0632
32	GELA	10.416	MG	12	1.0017	.1371	-.2400	.1025
32	GELA	10.416	AL	13	1.0065	.0861	-.1552	.0634
32	GELA	10.416	SI	14	1.0416	.0216	-.0947	.0318
32	GELA	10.416	P	15	1.0454	-.0104	-.0482	.0133
32	GELA	10.416	S	16	1.0796	-.0545	-.0293	.0042
32	GELA	10.416	CL	17	1.0788	-.0675	-.0116	.0004
32	GELA	10.416	K	19	1.1311	-.1283	-.0008	-.0020
32	GELA	10.416	CA	20	1.1720	-.1699	-.0001	-.0020
32	GELA	10.416	SC	21	1.1631	-.1667	.0062	-.0026
32	GELA	10.416	TI	22	1.1836	-.1878	.0073	-.0031
32	GELA	10.416	V	23	1.2058	-.2091	.0069	-.0036
32	GELA	10.416	CR	24	1.2528	-.2540	.0048	-.0037
32	GELA	10.416	MN	25	1.2807	-.2788	.0031	-.0050
32	GELA	10.416	FE	26	1.3330	-.3279	.0005	-.0057
32	GELA	10.416	CO	27	1.3635	-.3529	-.0023	-.0082
32	GELA	10.416	NI	28	1.4320	-.4181	-.0048	-.0090
32	GELA	10.416	CU	29	1.4474	-.4238	-.0091	-.0144
32	GELA	10.416	ZN	30	1.4291	-.4053	-.0115	-.0123
32	GELA	10.416	GA	31	1.4480	-.4135	-.0174	-.0171
32	GELA	10.416	Y	39	1.0603	-.0509	-.0119	.0024
32	GELA	10.416	ZR	40	1.0721	-.0625	-.0111	.0015
32	GELA	10.416	NB	41	1.0878	-.0779	-.0107	.0008

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
32	GELA	10.416	MO	42	1.0963	-.0845	-.0120	.0002
32	GELA	10.416	PD	46	1.1449	-.1220	-.0211	-.0019
32	GELA	10.416	AG	47	1.1644	-.1392	-.0226	-.0027
32	GELA	10.416	CD	48	1.1689	-.1364	-.0294	-.0030
32	GELA	10.416	SN	50	1.1942	-.1497	-.0400	-.0045
32	GELA	10.416	SB	51	1.2083	-.1571	-.0457	-.0055
32	GELA	10.416	CS	55	1.2203	-.1541	-.0595	-.0067
32	GELA	10.416	BA	56	1.2301	-.1530	-.0695	-.0075
32	GELA	10.416	LA	57	1.1868	-.1219	-.0607	-.0041
32	GELA	10.416	CE	58	1.2083	-.1393	-.0633	-.0057
32	GELA	10.416	HF	72	.9758	.0680	-.0536	.0098
32	GELA	10.416	TA	73	.9789	.0671	-.0563	.0103
32	GELA	10.416	W	74	.9810	.0679	-.0598	.0110
32	GELA	10.416	RE	75	.9845	.0666	-.0626	.0115
32	GELA	10.416	PT	78	.9910	.0696	-.0743	.0138
32	GELA	10.416	AU	79	.9961	.0664	-.0767	.0142
32	GELA	10.416	PB	82	1.0011	.0738	-.0920	.0172
32	GELA	10.416	TH	90	1.0314	.0815	-.1381	.0253
32	GELA	10.416	U	92	1.0424	.0823	-.1518	.0272
39	YLA	6.448	B	5	1.0845	-.0456	-.0266	-.0122
39	YLA	6.448	C	6	1.1284	-.0837	-.0251	-.0196
39	YLA	6.448	N	7	1.1341	-.0982	-.0151	-.0207
39	YLA	6.448	O	8	1.1441	-.1170	-.0053	-.0217
39	YLA	6.448	F	9	1.1275	-.1182	.0109	-.0202
39	YLA	6.448	NA	11	1.1717	-.1761	.0267	-.0224
39	YLA	6.448	MG	12	1.2171	-.2242	.0301	-.0231
39	YLA	6.448	AL	13	1.2311	-.2475	.0397	-.0234
39	YLA	6.448	SI	14	1.2827	-.2993	.0393	-.0228
39	YLA	6.448	P	15	1.0606	-.0362	-.0212	-.0032
39	YLA	6.448	S	16	1.0351	.1121	-.2541	.1081
39	YLA	6.448	CL	17	1.0287	.0712	-.1706	.0714
39	YLA	6.448	K	19	1.0620	-.0208	-.0591	.0181
39	YLA	6.448	CA	20	1.0868	-.0569	-.0370	.0072
39	YLA	6.448	SC	21	1.0621	-.0490	-.0153	.0022
39	YLA	6.448	TI	22	1.0628	-.0559	-.0069	.0001
39	YLA	6.448	V	23	1.0634	-.0605	-.0022	-.0006
39	YLA	6.448	CR	24	1.0851	-.0826	-.0014	-.0011
39	YLA	6.448	MN	25	1.0882	-.0877	.0006	-.0012
39	YLA	6.448	FE	26	1.1119	-.1110	.0002	-.0011
39	YLA	6.448	CO	27	1.1153	-.1155	.0014	-.0011
39	YLA	6.448	NI	28	1.1505	-.1496	-.0001	-.0008
39	YLA	6.448	CU	29	1.1396	-.1400	.0014	-.0010
39	YLA	6.448	ZN	30	1.1571	-.1570	.0008	-.0010
39	YLA	6.448	GA	31	1.1544	-.1534	.0004	-.0014
39	YLA	6.448	GE	32	1.1653	-.1628	-.0008	-.0017

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
39	YLA	6.448	ZR	40	1.0026	-.0025	-.0000	-.0000
39	YLA	6.448	NB	41	.9856	.0488	-.0580	.0238
39	YLA	6.448	MO	42	.9885	.0376	-.0431	.0171
39	YLA	6.448	PD	46	1.0052	.0075	-.0191	.0064
39	YLA	6.448	AG	47	1.0151	-.0050	-.0146	.0045
39	YLA	6.448	CD	48	1.0112	-.0018	-.0125	.0032
39	YLA	6.448	SN	50	1.0164	-.0071	-.0109	.0016
39	YLA	6.448	SB	51	1.0196	-.0097	-.0112	.0013
39	YLA	6.448	CS	55	1.0390	-.0235	-.0163	.0008
39	YLA	6.448	BA	56	1.0383	-.0193	-.0199	.0010
39	YLA	6.448	LA	57	1.0485	-.0284	-.0210	.0008
39	YLA	6.448	CE	58	1.0603	-.0392	-.0216	.0006
39	YLA	6.448	HF	72	1.0634	-.0190	-.0469	.0026
39	YLA	6.448	TA	73	1.0702	-.0231	-.0497	.0026
39	YLA	6.448	W	74	1.0760	-.0253	-.0533	.0026
39	YLA	6.448	RE	75	.9721	.0565	-.0333	.0047
39	YLA	6.448	PT	78	.9288	.0967	-.0312	.0056
39	YLA	6.448	AU	79	.9313	.0949	-.0320	.0058
39	YLA	6.448	PB	82	.9284	.1033	-.0389	.0072
39	YLA	6.448	TH	90	.9316	.1156	-.0584	.0112
39	YLA	6.448	U	92	.9339	.1178	-.0640	.0123
40	ZRLA	6.072	B	5	1.0897	-.0500	-.0274	-.0123
40	ZRLA	6.072	C	6	1.1323	-.0860	-.0268	-.0195
40	ZRLA	6.072	N	7	1.1358	-.0976	-.0179	-.0203
40	ZRLA	6.072	O	8	1.1431	-.1129	-.0094	-.0209
40	ZRLA	6.072	F	9	1.1234	-.1102	.0056	-.0188
40	ZRLA	6.072	NA	11	1.1599	-.1590	.0193	-.0203
40	ZRLA	6.072	MG	12	1.2004	-.2015	.0222	-.0212
40	ZRLA	6.072	AL	13	1.2098	-.2200	.0311	-.0210
40	ZRLA	6.072	SI	14	1.2561	-.2662	.0308	-.0207
40	ZRLA	6.072	P	15	1.0645	-.0409	-.0189	-.0047
40	ZRLA	6.072	S	16	1.0258	.1610	-.3312	.1459
40	ZRLA	6.072	CL	17	1.0212	.1084	-.2276	.0990
40	ZRLA	6.072	K	19	1.0570	-.0033	-.0812	.0279
40	ZRLA	6.072	CA	20	1.0819	-.0439	-.0505	.0126
40	ZRLA	6.072	SC	21	1.0571	-.0394	-.0225	.0049
40	ZRLA	6.072	TI	22	1.0570	-.0474	-.0110	.0014
40	ZRLA	6.072	V	23	1.0566	-.0519	-.0046	-.0000
40	ZRLA	6.072	CR	24	1.0768	-.0728	-.0032	-.0008
40	ZRLA	6.072	MN	25	1.0784	-.0768	-.0006	-.0010
40	ZRLA	6.072	FE	26	1.1002	-.0983	-.0008	-.0011
40	ZRLA	6.072	CO	27	1.1017	-.1014	.0006	-.0010
40	ZRLA	6.072	NI	28	1.1347	-.1331	-.0008	-.0008
40	ZRLA	6.072	CU	29	1.1220	-.1222	.0011	-.0009
40	ZRLA	6.072	ZN	30	1.1372	-.1372	.0008	-.0008

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
40	ZRLA	6.072	GA	31	1.1324	-.1323	.0008	-.0010
40	ZRLA	6.072	GE	32	1.1410	-.1399	.0001	-.0012
40	ZRLA	6.072	Y	39	.9980	.0020	-.0000	.0000
40	ZRLA	6.072	NB	41	1.0055	-.0055	-.0001	.0002
40	ZRLA	6.072	MO	42	.9859	.0336	-.0311	.0117
40	ZRLA	6.072	PD	46	.9955	.0214	-.0266	.0097
40	ZRLA	6.072	AG	47	1.0050	.0081	-.0201	.0070
40	ZRLA	6.072	CD	48	1.0009	.0102	-.0158	.0048
40	ZRLA	6.072	SN	50	1.0051	.0040	-.0115	.0024
40	ZRLA	6.072	SB	51	1.0078	.0014	-.0109	.0017
40	ZRLA	6.072	CS	55	1.0241	-.0114	-.0136	.0009
40	ZRLA	6.072	BA	56	1.0226	-.0070	-.0167	.0010
40	ZRLA	6.072	LA	57	1.0318	-.0153	-.0174	.0009
40	ZRLA	6.072	CE	58	1.0424	-.0253	-.0179	.0008
40	ZRLA	6.072	HF	72	1.0421	-.0048	-.0400	.0027
40	ZRLA	6.072	TA	73	1.0480	-.0082	-.0425	.0027
40	ZRLA	6.072	W	74	1.0527	-.0100	-.0455	.0028
40	ZRLA	6.072	RE	75	1.0592	-.0141	-.0480	.0028
40	ZRLA	6.072	PT	78	.9257	.0975	-.0282	.0049
40	ZRLA	6.072	AU	79	.9279	.0958	-.0288	.0050
40	ZRLA	6.072	PB	82	.9244	.1045	-.0352	.0063
40	ZRLA	6.072	TH	90	.9253	.1177	-.0529	.0099
40	ZRLA	6.072	U	92	.9269	.1202	-.0580	.0110
41	NBLA	5.727	B	5	1.0913	-.0520	-.0272	-.0120
41	NBLA	5.727	C	6	1.1326	-.0865	-.0267	-.0194
41	NBLA	5.727	N	7	1.1344	-.0954	-.0194	-.0195
41	NBLA	5.727	O	8	1.1394	-.1077	-.0116	-.0200
41	NBLA	5.727	F	9	1.1171	-.1016	.0021	-.0176
41	NBLA	5.727	NA	11	1.1472	-.1427	.0141	-.0187
41	NBLA	5.727	MG	12	1.1833	-.1801	.0163	-.0195
41	NBLA	5.727	AL	13	1.1888	-.1944	.0249	-.0193
41	NBLA	5.727	SI	14	1.2304	-.2360	.0248	-.0193
41	NBLA	5.727	P	15	1.2401	-.2537	.0330	-.0195
41	NBLA	5.727	S	16	1.0802	-.0530	-.0234	-.0038
41	NBLA	5.727	CL	17	1.0147	.1271	-.2501	.1094
41	NBLA	5.727	K	19	1.0479	.0213	-.1105	.0416
41	NBLA	5.727	CA	20	1.0735	-.0257	-.0680	.0204
41	NBLA	5.727	SC	21	1.0493	-.0265	-.0312	.0085
41	NBLA	5.727	TI	22	1.0489	-.0363	-.0156	.0031
41	NBLA	5.727	V	23	1.0477	-.0414	-.0071	.0007
41	NBLA	5.727	CR	24	1.0668	-.0618	-.0043	-.0007
41	NBLA	5.727	MN	25	1.0671	-.0649	-.0012	-.0011
41	NBLA	5.727	FE	26	1.0874	-.0849	-.0011	-.0013
41	NBLA	5.727	CO	27	1.0874	-.0866	.0005	-.0012
41	NBLA	5.727	NI	28	1.1183	-.1163	-.0009	-.0012

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
41	NBLA	5.727	CU	29	1.1040	-.1042	.0012	-.0011
41	NBLA	5.727	ZN	30	1.1173	-.1173	.0011	-.0010
41	NBLA	5.727	GA	31	1.1107	-.1111	.0015	-.0011
41	NBLA	5.727	GE	32	1.1173	-.1171	.0010	-.0012
41	NBLA	5.727	Y	39	1.1735	-.1649	-.0073	-.0013
41	NBLA	5.727	ZR	40	.9951	.0047	.0004	-.0002
41	NBLA	5.727	MO	42	.9980	.0021	-.0001	.0000
41	NBLA	5.727	PD	46	.9830	.0403	-.0377	.0144
41	NBLA	5.727	AG	47	.9925	.0256	-.0285	.0104
41	NBLA	5.727	CD	48	.9884	.0261	-.0215	.0071
41	NBLA	5.727	SN	50	.9921	.0183	-.0138	.0034
41	NBLA	5.727	SB	51	.9944	.0153	-.0120	.0023
41	NBLA	5.727	CS	55	1.0083	.0030	-.0122	.0009
41	NBLA	5.727	BA	56	1.0061	.0076	-.0146	.0010
41	NBLA	5.727	LA	57	1.0144	-.0002	-.0151	.0009
41	NBLA	5.727	CE	58	1.0241	-.0095	-.0154	.0007
41	NBLA	5.727	HF	72	1.0421	-.0047	-.0397	.0024
41	NBLA	5.727	TA	73	1.0479	-.0082	-.0421	.0024
41	NBLA	5.727	W	74	1.0298	.0077	-.0405	.0030
41	NBLA	5.727	RE	75	1.0354	.0042	-.0427	.0031
41	NBLA	5.727	PT	78	.9576	.0709	-.0331	.0046
41	NBLA	5.727	AU	79	.9222	.1004	-.0271	.0045
41	NBLA	5.727	PB	82	.9182	.1093	-.0332	.0058
41	NBLA	5.727	TH	90	.9170	.1236	-.0498	.0092
41	NBLA	5.727	U	92	.9180	.1264	-.0545	.0101
42	MOLA	5.410	B	5	1.1007	-.0593	-.0285	-.0128
42	MOLA	5.410	C	6	1.1413	-.0924	-.0287	-.0201
42	MOLA	5.410	N	7	1.1416	-.0995	-.0220	-.0200
42	MOLA	5.410	O	8	1.1448	-.1095	-.0150	-.0203
42	MOLA	5.410	F	9	1.1201	-.1006	-.0023	-.0172
42	MOLA	5.410	NA	11	1.1450	-.1354	.0082	-.0178
42	MOLA	5.410	MG	12	1.1776	-.1689	.0097	-.0185
42	MOLA	5.410	AL	13	1.1797	-.1796	.0176	-.0178
42	MOLA	5.410	SI	14	1.2177	-.2173	.0176	-.0180
42	MOLA	5.410	P	15	1.2232	-.2312	.0258	-.0179
42	MOLA	5.410	S	16	1.0884	-.0617	-.0201	-.0066
42	MOLA	5.410	CL	17	1.0078	.1787	-.3354	.1505
42	MOLA	5.410	K	19	1.0451	.0480	-.1538	.0613
42	MOLA	5.410	CA	20	1.0722	-.0086	-.0951	.0318
42	MOLA	5.410	SC	21	1.0491	-.0174	-.0455	.0140
42	MOLA	5.410	TI	22	1.0489	-.0309	-.0237	.0057
42	MOLA	5.410	V	23	1.0474	-.0376	-.0117	.0020
42	MOLA	5.410	CR	24	1.0658	-.0582	-.0076	-.0001
42	MOLA	5.410	MN	25	1.0652	-.0611	-.0033	-.0008
42	MOLA	5.410	FE	26	1.0843	-.0803	-.0026	-.0013

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
42	MOLA	5.410	CO	27	1.0830	-.0811	-.0006	-.0013
42	MOLA	5.410	NI	28	1.1125	-.1091	-.0021	-.0013
42	MOLA	5.410	CU	29	1.0968	-.0962	.0005	-.0011
42	MOLA	5.410	ZN	30	1.1084	-.1079	.0005	-.0010
42	MOLA	5.410	GA	31	1.1003	-.1007	.0014	-.0010
42	MOLA	5.410	GE	32	1.1052	-.1054	.0011	-.0009
42	MOLA	5.410	Y	39	1.1524	-.1471	-.0045	-.0008
42	MOLA	5.410	ZR	40	1.1067	-.1042	-.0018	-.0007
42	MOLA	5.410	NB	41	1.0025	-.0024	-.0001	-.0000
42	MOLA	5.410	PD	46	.9808	.0438	-.0396	.0151
42	MOLA	5.410	AG	47	.9872	.0383	-.0414	.0160
42	MOLA	5.410	CD	48	.9833	.0362	-.0305	.0111
42	MOLA	5.410	SN	50	.9871	.0253	-.0177	.0053
42	MOLA	5.410	SB	51	.9892	.0214	-.0142	.0036
42	MOLA	5.410	CS	55	1.0016	.0078	-.0103	.0009
42	MOLA	5.410	BA	56	.9989	.0123	-.0120	.0009
42	MOLA	5.410	LA	57	1.0066	.0048	-.0121	.0007
42	MOLA	5.410	CE	58	1.0156	-.0040	-.0121	.0006
42	MOLA	5.410	HF	72	1.0285	.0021	-.0326	.0021
42	MOLA	5.410	TA	73	1.0334	-.0009	-.0347	.0021
42	MOLA	5.410	W	74	1.0373	-.0023	-.0372	.0022
42	MOLA	5.410	RE	75	1.0222	.0104	-.0353	.0026
42	MOLA	5.410	PT	78	1.0329	.0072	-.0432	.0031
42	MOLA	5.410	AU	79	.9583	.0669	-.0290	.0038
42	MOLA	5.410	PB	82	.9192	.1049	-.0288	.0047
42	MOLA	5.410	TH	90	.9162	.1198	-.0438	.0078
42	MOLA	5.410	U	92	.9166	.1227	-.0479	.0086
46	PDLA	4.371	B	5	1.1281	-.0818	-.0314	-.0148
46	PDLA	4.371	C	6	1.1667	-.1115	-.0332	-.0219
46	PDLA	4.371	N	7	1.1630	-.1132	-.0284	-.0213
46	PDLA	4.371	O	8	1.1611	-.1166	-.0238	-.0207
46	PDLA	4.371	F	9	1.1300	-.1001	-.0138	-.0161
46	PDLA	4.371	NA	11	1.1403	-.1177	-.0068	-.0158
46	PDLA	4.371	MG	12	1.1636	-.1401	-.0070	-.0165
46	PDLA	4.371	AL	13	1.1562	-.1406	-.0010	-.0147
46	PDLA	4.371	SI	14	1.1838	-.1668	-.0018	-.0153
46	PDLA	4.371	P	15	1.1776	-.1686	.0049	-.0139
46	PDLA	4.371	S	16	1.2059	-.1960	.0042	-.0141
46	PDLA	4.371	CL	17	1.1959	-.1945	.0115	-.0130
46	PDLA	4.371	K	19	1.0330	.1253	-.2681	.1107
46	PDLA	4.371	CA	20	1.0441	.1382	-.3161	.1351
46	PDLA	4.371	SC	21	1.0329	.0676	-.1698	.0700
46	PDLA	4.371	TI	22	1.0387	.0204	-.0947	.0359
46	PDLA	4.371	V	23	1.0402	-.0064	-.0509	.0173
46	PDLA	4.371	CR	24	1.0590	-.0361	-.0303	.0075

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
46	PDLA	4.371	MN	25	1.0575	-.0441	-.0158	.0025
46	PDLA	4.371	FE	26	1.0743	-.0635	-.0108	-.0001
46	PDLA	4.371	CO	27	1.0701	-.0633	-.0060	-.0008
46	PDLA	4.371	NI	28	1.0958	-.0874	-.0071	-.0013
46	PDLA	4.371	CU	29	1.0762	-.0721	-.0033	-.0008
46	PDLA	4.371	ZN	30	1.0833	-.0795	-.0033	-.0005
46	PDLA	4.371	GA	31	1.0708	-.0691	-.0015	-.0002
46	PDLA	4.371	GE	32	1.0708	-.0698	-.0012	.0002
46	PDLA	4.371	Y	39	1.1096	-.1092	.0004	-.0008
46	PDLA	4.371	ZR	40	1.1146	-.1135	-.0004	-.0008
46	PDLA	4.371	NB	41	1.1254	-.1235	-.0015	-.0004
46	PDLA	4.371	MO	42	1.1077	-.1059	-.0015	-.0003
46	PDLA	4.371	AG	47	1.0045	-.0045	.0000	-.0000
46	PDLA	4.371	CD	48	.9953	.0049	-.0002	.0000
46	PDLA	4.371	SN	50	.9637	.0675	-.0500	.0189
46	PDLA	4.371	SB	51	.9665	.0572	-.0370	.0134
46	PDLA	4.371	CS	55	.9763	.0355	-.0165	.0047
46	PDLA	4.371	BA	56	.9730	.0372	-.0134	.0032
46	PDLA	4.371	LA	57	.9796	.0290	-.0107	.0022
46	PDLA	4.371	CE	58	.9871	.0202	-.0068	.0014
46	PDLA	4.371	HF	72	1.0188	.0020	-.0223	.0016
46	PDLA	4.371	TA	73	1.0225	-.0003	-.0237	.0016
46	PDLA	4.371	W	74	1.0099	.0114	-.0230	.0017
46	PDLA	4.371	RE	75	1.0136	.0089	-.0243	.0018
46	PDLA	4.371	PT	78	.9998	.0243	-.0264	.0023
46	PDLA	4.371	AU	79	1.0046	.0203	-.0270	.0021
46	PDLA	4.371	PB	82	.9928	.0357	-.0315	.0030
46	PDLA	4.371	TH	90	.9107	.1145	-.0299	.0047
46	PDLA	4.371	U	92	.9094	.1181	-.0327	.0052
47	AGLA	4.157	B	5	1.1290	-.0835	-.0308	-.0145
47	AGLA	4.157	C	6	1.1671	-.1124	-.0332	-.0213
47	AGLA	4.157	N	7	1.1627	-.1131	-.0289	-.0205
47	AGLA	4.157	O	8	1.1600	-.1155	-.0244	-.0200
47	AGLA	4.157	F	9	1.1279	-.0976	-.0150	-.0153
47	AGLA	4.157	NA	11	1.1357	-.1122	-.0085	-.0150
47	AGLA	4.157	MG	12	1.1573	-.1324	-.0093	-.0155
47	AGLA	4.157	AL	13	1.1484	-.1313	-.0031	-.0140
47	AGLA	4.157	SI	14	1.1741	-.1556	-.0036	-.0149
47	AGLA	4.157	P	15	1.1659	-.1550	.0022	-.0131
47	AGLA	4.157	S	16	1.1920	-.1801	.0015	-.0134
47	AGLA	4.157	CL	17	1.1798	-.1761	.0083	-.0120
47	AGLA	4.157	K	19	1.0850	-.0494	-.0433	.0078
47	AGLA	4.157	CA	20	1.0366	.1551	-.3321	.1417
47	AGLA	4.157	SC	21	1.0210	.1060	-.2207	.0945
47	AGLA	4.157	TI	22	1.0294	.0460	-.1255	.0506

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
47	AGLA	4.157	V	23	1.0327	.0105	-.0684	.0254
47	AGLA	4.157	CR	24	1.0523	-.0242	-.0399	.0118
47	AGLA	4.157	MN	25	1.0513	-.0353	-.0205	.0045
47	AGLA	4.157	FE	26	1.0681	-.0558	-.0134	.0011
47	AGLA	4.157	CO	27	1.0637	-.0561	-.0072	-.0003
47	AGLA	4.157	NI	28	1.0887	-.0800	-.0074	-.0013
47	AGLA	4.157	CU	29	1.0686	-.0643	-.0036	-.0007
47	AGLA	4.157	ZN	30	1.0750	-.0711	-.0032	-.0007
47	AGLA	4.157	GA	31	1.0617	-.0600	-.0015	-.0002
47	AGLA	4.157	GE	32	1.0609	-.0598	-.0013	.0002
47	AGLA	4.157	Y	39	1.0927	-.0927	.0008	-.0008
47	AGLA	4.157	ZR	40	1.0968	-.0963	.0002	-.0007
47	AGLA	4.157	NB	41	1.1064	-.1052	-.0009	-.0003
47	AGLA	4.157	MO	42	1.1084	-.1065	-.0015	-.0004
47	AGLA	4.157	PD	46	.9958	.0042	.0000	.0000
47	AGLA	4.157	CD	48	.9905	.0096	-.0001	.0000
47	AGLA	4.157	SN	50	.9607	.0607	-.0324	.0111
47	AGLA	4.157	SB	51	.9554	.0762	-.0503	.0189
47	AGLA	4.157	CS	55	.9662	.0489	-.0220	.0069
47	AGLA	4.157	BA	56	.9632	.0493	-.0172	.0047
47	AGLA	4.157	LA	57	.9697	.0405	-.0135	.0033
47	AGLA	4.157	CE	58	.9772	.0313	-.0107	.0023
47	AGLA	4.157	HF	72	1.0036	.0153	-.0206	.0017
47	AGLA	4.157	TA	73	1.0067	.0134	-.0219	.0018
47	AGLA	4.157	W	74	1.0088	.0129	-.0235	.0018
47	AGLA	4.157	RE	75	1.0125	.0105	-.0248	.0019
47	AGLA	4.157	PT	78	.9858	.0365	-.0246	.0024
47	AGLA	4.157	AU	79	.9900	.0330	-.0252	.0022
47	AGLA	4.157	PB	82	.9786	.0477	-.0292	.0029
47	AGLA	4.157	TH	90	.9056	.1190	-.0292	.0045
47	AGLA	4.157	U	92	.9040	.1229	-.0319	.0050
48	CDLA	3.959	B	5	1.1457	-.0960	-.0328	-.0168
48	CDLA	3.959	C	6	1.1839	-.1246	-.0353	-.0239
48	CDLA	3.959	N	7	1.1788	-.1246	-.0314	-.0228
48	CDLA	3.959	O	8	1.1754	-.1260	-.0274	-.0220
48	CDLA	3.959	F	9	1.1420	-.1067	-.0187	-.0165
48	CDLA	3.959	NA	11	1.1477	-.1189	-.0130	-.0158
48	CDLA	3.959	MG	12	1.1682	-.1381	-.0135	-.0166
48	CDLA	3.959	AL	13	1.1578	-.1355	-.0077	-.0146
48	CDLA	3.959	SI	14	1.1822	-.1583	-.0082	-.0157
48	CDLA	3.959	P	15	1.1721	-.1560	-.0027	-.0135
48	CDLA	3.959	S	16	1.1967	-.1793	-.0034	-.0139
48	CDLA	3.959	CL	17	1.1825	-.1738	.0035	-.0122
48	CDLA	3.959	K	19	1.0990	-.0614	-.0426	.0051
48	CDLA	3.959	CA	20	1.0511	.1264	-.2953	.1189

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
48	CDLA	3.959	SC	21	1.0194	.1518	-.3021	.1321
48	CDLA	3.959	TI	22	1.0320	.0716	-.1758	.0728
48	CDLA	3.959	V	23	1.0382	.0224	-.0980	.0376
48	CDLA	3.959	CR	24	1.0597	-.0202	-.0576	.0183
48	CDLA	3.959	MN	25	1.0598	-.0367	-.0308	.0078
48	CDLA	3.959	FE	26	1.0771	-.0600	-.0192	.0022
48	CDLA	3.959	CO	27	1.0727	-.0618	-.0111	.0002
48	CDLA	3.959	NI	28	1.0977	-.0860	-.0103	-.0013
48	CDLA	3.959	CU	29	1.0769	-.0705	-.0054	-.0010
48	CDLA	3.959	ZN	30	1.0827	-.0769	-.0050	-.0008
48	CDLA	3.959	GA	31	1.0686	-.0654	-.0029	-.0003
48	CDLA	3.959	GE	32	1.0671	-.0648	-.0021	-.0001
48	CDLA	3.959	Y	39	1.0931	-.0934	.0013	-.0010
48	CDLA	3.959	ZR	40	1.0965	-.0964	.0006	-.0007
48	CDLA	3.959	NB	41	1.1052	-.1045	-.0004	-.0002
48	CDLA	3.959	MO	42	1.1062	-.1053	-.0007	-.0002
48	CDLA	3.959	PD	46	1.0058	-.0057	-.0002	-.0000
48	CDLA	3.959	AG	47	1.0099	-.0097	-.0001	-.0000
48	CDLA	3.959	SN	50	.9939	.0063	-.0002	.0000
48	CDLA	3.959	SB	51	.9652	.0575	-.0345	.0118
48	CDLA	3.959	CS	55	.9689	.0512	-.0308	.0108
48	CDLA	3.959	BA	56	.9664	.0492	-.0228	.0073
48	CDLA	3.959	LA	57	.9732	.0388	-.0171	.0051
48	CDLA	3.959	CE	58	.9809	.0284	-.0128	.0035
48	CDLA	3.959	HF	72	1.0040	.0102	-.0155	.0013
48	CDLA	3.959	TA	73	1.0067	.0085	-.0165	.0013
48	CDLA	3.959	W	74	1.0083	.0082	-.0178	.0013
48	CDLA	3.959	RE	75	1.0115	.0060	-.0189	.0014
48	CDLA	3.959	PT	78	1.0034	.0163	-.0212	.0015
48	CDLA	3.959	AU	79	.9908	.0270	-.0194	.0016
48	CDLA	3.959	PB	82	.9918	.0310	-.0249	.0021
48	CDLA	3.959	TH	90	.9135	.1070	-.0240	.0035
48	CDLA	3.959	U	92	.9115	.1110	-.0265	.0040
50	SNLA	3.601	B	5	1.1645	-.1110	-.0346	-.0189
50	SNLA	3.601	C	6	1.2027	-.1392	-.0373	-.0262
50	SNLA	3.601	N	7	1.1966	-.1379	-.0334	-.0251
50	SNLA	3.601	O	8	1.1918	-.1377	-.0302	-.0239
50	SNLA	3.601	F	9	1.1565	-.1164	-.0223	-.0178
50	SNLA	3.601	NA	11	1.1587	-.1240	-.0186	-.0161
50	SNLA	3.601	MG	12	1.1771	-.1406	-.0197	-.0167
50	SNLA	3.601	AL	13	1.1643	-.1354	-.0146	-.0143
50	SNLA	3.601	SI	14	1.1864	-.1561	-.0142	-.0162
50	SNLA	3.601	P	15	1.1734	-.1510	-.0084	-.0140
50	SNLA	3.601	S	16	1.1951	-.1712	-.0095	-.0145
50	SNLA	3.601	CL	17	1.1776	-.1624	-.0030	-.0123

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
50	SNLA	3.601	K	19	1.1182	-.0907	-.0196	-.0079
50	SNLA	3.601	CA	20	1.1244	-.0765	-.0553	.0075
50	SNLA	3.601	SC	21	1.0269	.1396	-.2821	.1166
50	SNLA	3.601	TI	22	1.0182	.1598	-.3145	.1378
50	SNLA	3.601	V	23	1.0321	.0753	-.1833	.0766
50	SNLA	3.601	CR	24	1.0586	.0103	-.1092	.0407
50	SNLA	3.601	MN	25	1.0622	-.0224	-.0587	.0190
50	SNLA	3.601	FE	26	1.0815	-.0542	-.0349	.0077
50	SNLA	3.601	CO	27	1.0779	-.0612	-.0190	.0024
50	SNLA	3.601	NI	28	1.1030	-.0871	-.0154	-.0005
50	SNLA	3.601	CU	29	1.0816	-.0724	-.0086	-.0006
50	SNLA	3.601	ZN	30	1.0865	-.0782	-.0076	-.0007
50	SNLA	3.601	GA	31	1.0712	-.0661	-.0048	-.0003
50	SNLA	3.601	GE	32	1.0684	-.0645	-.0038	-.0001
50	SNLA	3.601	Y	39	1.0844	-.0844	.0014	-.0013
50	SNLA	3.601	ZR	40	1.0866	-.0862	.0003	-.0007
50	SNLA	3.601	NB	41	1.0936	-.0927	-.0009	.0001
50	SNLA	3.601	MO	42	1.0930	-.0923	-.0010	.0003
50	SNLA	3.601	PD	46	1.0879	-.0873	-.0006	-.0001
50	SNLA	3.601	AG	47	1.0682	-.0679	-.0002	-.0000
50	SNLA	3.601	CD	48	1.0071	-.0069	-.0002	-.0000
50	SNLA	3.601	SB	51	.9972	.0029	-.0000	.0000
50	SNLA	3.601	CS	55	.9642	.0637	-.0436	.0158
50	SNLA	3.601	BA	56	.9627	.0581	-.0315	.0108
50	SNLA	3.601	LA	57	.9671	.0544	-.0331	.0117
50	SNLA	3.601	CE	58	.9757	.0404	-.0244	.0083
50	SNLA	3.601	HF	72	.9958	.0137	-.0102	.0008
50	SNLA	3.601	TA	73	.9976	.0125	-.0108	.0007
50	SNLA	3.601	W	74	.9983	.0127	-.0118	.0008
50	SNLA	3.601	RE	75	1.0006	.0110	-.0122	.0006
50	SNLA	3.601	PT	78	1.0034	.0115	-.0157	.0008
50	SNLA	3.601	AU	79	.9964	.0175	-.0145	.0006
50	SNLA	3.601	PB	82	.9818	.0343	-.0172	.0011
50	SNLA	3.601	TH	90	.9369	.0821	-.0216	.0026
50	SNLA	3.601	U	92	.9155	.1025	-.0209	.0028
51	SBLA	3.440	B	5	1.1734	-.1178	-.0361	-.0194
51	SBLA	3.440	C	6	1.2116	-.1459	-.0390	-.0267
51	SBLA	3.440	N	7	1.2051	-.1445	-.0346	-.0260
51	SBLA	3.440	O	8	1.1999	-.1436	-.0314	-.0248
51	SBLA	3.440	F	9	1.1637	-.1213	-.0241	-.0182
51	SBLA	3.440	NA	11	1.1644	-.1271	-.0212	-.0161
51	SBLA	3.440	MG	12	1.1819	-.1425	-.0229	-.0166
51	SBLA	3.440	AL	13	1.1681	-.1362	-.0177	-.0142
51	SBLA	3.440	SI	14	1.1893	-.1558	-.0175	-.0161
51	SBLA	3.440	P	15	1.1751	-.1499	-.0108	-.0143

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
51	SBLA	3.440	S	16	1.1957	-.1687	-.0122	-.0148
51	SBLA	3.440	CL	17	1.1768	-.1586	-.0060	-.0122
51	SBLA	3.440	K	19	1.1251	-.0962	-.0203	-.0086
51	SBLA	3.440	CA	20	1.1381	-.1073	-.0214	-.0095
51	SBLA	3.440	SC	21	1.0912	-.0472	-.0598	.0159
51	SBLA	3.440	TI	22	1.0170	.1737	-.3344	.1450
51	SBLA	3.440	V	23	1.0262	.1126	-.2412	.1033
51	SBLA	3.440	CR	24	1.0559	.0337	-.1467	.0576
51	SBLA	3.440	MN	25	1.0621	-.0101	-.0800	.0282
51	SBLA	3.440	FE	26	1.0830	-.0485	-.0468	.0124
51	SBLA	3.440	CO	27	1.0803	-.0597	-.0250	.0045
51	SBLA	3.440	NI	28	1.1057	-.0873	-.0187	.0003
51	SBLA	3.440	CU	29	1.0842	-.0735	-.0105	-.0002
51	SBLA	3.440	ZN	30	1.0888	-.0793	-.0089	-.0006
51	SBLA	3.440	GA	31	1.0730	-.0668	-.0061	-.0001
51	SBLA	3.440	GE	32	1.0697	-.0650	-.0047	-.0001
51	SBLA	3.440	Y	39	1.0816	-.0815	.0017	-.0018
51	SBLA	3.440	ZR	40	1.0833	-.0830	.0010	-.0013
51	SBLA	3.440	NB	41	1.0895	-.0887	-.0003	-.0005
51	SBLA	3.440	MO	42	1.0883	-.0877	-.0002	-.0004
51	SBLA	3.440	PD	46	1.0822	-.0818	-.0003	-.0001
51	SBLA	3.440	AG	47	1.0885	-.0881	-.0004	-.0000
51	SBLA	3.440	CD	48	1.0566	-.0564	-.0002	-.0000
51	SBLA	3.440	SN	50	1.0030	-.0030	-.0000	-.0000
51	SBLA	3.440	CS	55	.9683	.0502	-.0272	.0087
51	SBLA	3.440	BA	56	.9584	.0695	-.0435	.0156
51	SBLA	3.440	LA	57	.9666	.0544	-.0321	.0111
51	SBLA	3.440	CE	58	.9722	.0496	-.0338	.0121
51	SBLA	3.440	HF	72	.9927	.0152	-.0089	.0010
51	SBLA	3.440	TA	73	.9943	.0143	-.0093	.0008
51	SBLA	3.440	W	74	.9946	.0146	-.0099	.0006
51	SBLA	3.440	RE	75	.9965	.0131	-.0102	.0005
51	SBLA	3.440	PT	78	.9982	.0140	-.0124	.0002
51	SBLA	3.440	AU	79	1.0017	.0110	-.0129	.0002
51	SBLA	3.440	PB	82	.9909	.0244	-.0158	.0006
51	SBLA	3.440	TH	90	.9729	.0495	-.0244	.0020
51	SBLA	3.440	U	92	.9350	.0837	-.0210	.0024
55	CSLA	2.891	B	5	1.2053	-.1442	-.0392	-.0218
55	CSLA	2.891	C	6	1.2435	-.1717	-.0424	-.0293
55	CSLA	2.891	N	7	1.2356	-.1683	-.0393	-.0279
55	CSLA	2.891	O	8	1.2288	-.1661	-.0357	-.0269
55	CSLA	2.891	F	9	1.1901	-.1426	-.0260	-.0215
55	CSLA	2.891	NA	11	1.1863	-.1426	-.0249	-.0188
55	CSLA	2.891	MG	12	1.2013	-.1538	-.0294	-.0180
55	CSLA	2.891	AL	13	1.1843	-.1442	-.0252	-.0149

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
55	CSLA	2.891	SI	14	1.2026	-.1596	-.0269	-.0161
55	CSLA	2.891	P	15	1.1845	-.1498	-.0207	-.0139
55	CSLA	2.891	S	16	1.2018	-.1657	-.0203	-.0158
55	CSLA	2.891	CL	17	1.1787	-.1510	-.0158	-.0118
55	CSLA	2.891	K	19	1.1890	-.1658	-.0097	-.0135
55	CSLA	2.891	CA	20	1.2065	-.1817	-.0107	-.0142
55	CSLA	2.891	SC	21	1.1209	-.0967	-.0166	-.0077
55	CSLA	2.891	TI	22	1.1091	-.0874	-.0161	-.0055
55	CSLA	2.891	V	23	1.0866	-.0382	-.0713	.0232
55	CSLA	2.891	CR	24	1.0299	.1720	-.3505	.1499
55	CSLA	2.891	MN	25	1.0442	.0988	-.2454	.1033
55	CSLA	2.891	FE	26	1.0771	.0113	-.1418	.0538
55	CSLA	2.891	CO	27	1.0830	-.0341	-.0725	.0238
55	CSLA	2.891	NI	28	1.1130	-.0789	-.0426	.0087
55	CSLA	2.891	CU	29	1.0934	-.0748	-.0214	.0029
55	CSLA	2.891	ZN	30	1.0980	-.0831	-.0155	.0008
55	CSLA	2.891	GA	31	1.0807	-.0702	-.0114	.0010
55	CSLA	2.891	GE	32	1.0758	-.0675	-.0089	.0006
55	CSLA	2.891	Y	39	1.0750	-.0731	.0002	-.0021
55	CSLA	2.891	ZR	40	1.0751	-.0730	-.0006	-.0014
55	CSLA	2.891	NB	41	1.0792	-.0764	-.0024	-.0004
55	CSLA	2.891	MO	42	1.0759	-.0738	-.0018	-.0003
55	CSLA	2.891	PD	46	1.0742	-.0735	-.0006	-.0001
55	CSLA	2.891	AG	47	1.0793	-.0786	-.0006	-.0001
55	CSLA	2.891	CD	48	1.0701	-.0698	-.0003	-.0000
55	CSLA	2.891	SN	50	1.0571	-.0569	-.0002	-.0000
55	CSLA	2.891	SB	51	1.0387	-.0386	-.0001	-.0000
55	CSLA	2.891	BA	56	.9922	.0078	.0006	-.0007
55	CSLA	2.891	LA	57	.9948	.0052	.0008	-.0007
55	CSLA	2.891	CE	58	.9986	.0013	.0007	-.0006
55	CSLA	2.891	HF	72	.9838	.0206	-.0048	.0005
55	CSLA	2.891	TA	73	.9843	.0201	-.0045	.0001
55	CSLA	2.891	W	74	.9836	.0210	-.0042	-.0003
55	CSLA	2.891	RE	75	.9843	.0206	-.0046	-.0003
55	CSLA	2.891	PT	78	.9823	.0238	-.0051	-.0009
55	CSLA	2.891	AU	79	.9845	.0218	-.0054	-.0009
55	CSLA	2.891	PB	82	.9805	.0283	-.0080	-.0008
55	CSLA	2.891	TH	90	.9621	.0520	-.0142	.0001
55	CSLA	2.891	U	92	.9628	.0532	-.0162	.0002
56	BALA	2.774	B	5	1.2210	-.1565	-.0407	-.0238
56	BALA	2.774	C	6	1.2596	-.1840	-.0441	-.0314
56	BALA	2.774	N	7	1.2513	-.1801	-.0414	-.0297
56	BALA	2.774	O	8	1.2441	-.1774	-.0381	-.0285
56	BALA	2.774	F	9	1.2045	-.1530	-.0288	-.0226
56	BALA	2.774	NA	11	1.1999	-.1525	-.0274	-.0200

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
56	BALA	2.774	MG	12	1.2145	-.1631	-.0321	-.0193
56	BALA	2.774	AL	13	1.1968	-.1530	-.0275	-.0162
56	BALA	2.774	SI	14	1.2147	-.1678	-.0295	-.0173
56	BALA	2.774	P	15	1.1958	-.1572	-.0237	-.0149
56	BALA	2.774	S	16	1.2125	-.1725	-.0229	-.0171
56	BALA	2.774	CL	17	1.1884	-.1574	-.0175	-.0134
56	BALA	2.774	K	19	1.1973	-.1708	-.0116	-.0149
56	BALA	2.774	CA	20	1.2141	-.1859	-.0126	-.0156
56	BALA	2.774	SC	21	1.1335	-.1071	-.0174	-.0091
56	BALA	2.774	TI	22	1.1213	-.0975	-.0171	-.0067
56	BALA	2.774	V	23	1.0987	-.0514	-.0653	.0183
56	BALA	2.774	CR	24	1.0435	.1367	-.3003	.1211
56	BALA	2.774	MN	25	1.0483	.1088	-.2666	.1104
56	BALA	2.774	FE	26	1.0784	.0375	-.1901	.0748
56	BALA	2.774	CO	27	1.0885	-.0248	-.0970	.0337
56	BALA	2.774	NI	28	1.1211	-.0793	-.0538	.0121
56	BALA	2.774	CU	29	1.1028	-.0806	-.0254	.0034
56	BALA	2.774	ZN	30	1.1078	-.0909	-.0172	.0003
56	BALA	2.774	GA	31	1.0901	-.0775	-.0136	.0010
56	BALA	2.774	GE	32	1.0849	-.0741	-.0118	.0011
56	BALA	2.774	Y	39	1.0817	-.0787	-.0004	-.0026
56	BALA	2.774	ZR	40	1.0814	-.0783	-.0014	-.0017
56	BALA	2.774	NB	41	1.0852	-.0813	-.0034	-.0005
56	BALA	2.774	MO	42	1.0814	-.0784	-.0027	-.0004
56	BALA	2.774	PD	46	1.0780	-.0768	-.0011	-.0001
56	BALA	2.774	AG	47	1.0828	-.0816	-.0011	-.0001
56	BALA	2.774	CD	48	1.0732	-.0726	-.0005	-.0001
56	BALA	2.774	SN	50	1.0604	-.0601	-.0002	-.0000
56	BALA	2.774	SB	51	1.0579	-.0577	-.0002	-.0000
56	BALA	2.774	CS	55	1.0082	-.0081	-.0001	-.0000
56	BALA	2.774	LA	57	1.0025	-.0025	.0000	-.0000
56	BALA	2.774	CE	58	1.0064	-.0071	.0015	-.0008
56	BALA	2.774	HF	72	.9888	.0141	-.0026	-.0004
56	BALA	2.774	TA	73	.9892	.0139	-.0027	-.0004
56	BALA	2.774	W	74	.9883	.0149	-.0023	-.0009
56	BALA	2.774	RE	75	.9888	.0142	-.0017	-.0014
56	BALA	2.774	PT	78	.9861	.0180	-.0024	-.0018
56	BALA	2.774	AU	79	.9881	.0159	-.0020	-.0021
56	BALA	2.774	PB	82	.9832	.0229	-.0042	-.0020
56	BALA	2.774	TH	90	.9645	.0464	-.0101	-.0009
56	BALA	2.774	U	92	.9645	.0483	-.0121	-.0006
57	LALA	2.664	B	5	1.2242	-.1601	-.0407	-.0233
57	LALA	2.664	C	6	1.2626	-.1876	-.0440	-.0309
57	LALA	2.664	N	7	1.2541	-.1836	-.0412	-.0293
57	LALA	2.664	O	8	1.2466	-.1804	-.0379	-.0282

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
57	LALA	2.664	F	9	1.2066	-.1548	-.0299	-.0218
57	LALA	2.664	NA	11	1.2013	-.1542	-.0274	-.0197
57	LALA	2.664	MG	12	1.2154	-.1637	-.0335	-.0182
57	LALA	2.664	AL	13	1.1972	-.1537	-.0271	-.0165
57	LALA	2.664	SI	14	1.2146	-.1678	-.0293	-.0174
57	LALA	2.664	P	15	1.1950	-.1562	-.0243	-.0145
57	LALA	2.664	S	16	1.2112	-.1702	-.0256	-.0153
57	LALA	2.664	CL	17	1.1864	-.1549	-.0185	-.0130
57	LALA	2.664	K	19	1.1936	-.1653	-.0154	-.0130
57	LALA	2.664	CA	20	1.2097	-.1801	-.0156	-.0141
57	LALA	2.664	SC	21	1.1717	-.1535	-.0072	-.0110
57	LALA	2.664	TI	22	1.1220	-.0985	-.0171	-.0064
57	LALA	2.664	V	23	1.1097	-.0880	-.0183	-.0035
57	LALA	2.664	CR	24	1.1072	-.0514	-.0808	.0252
57	LALA	2.664	MN	25	1.0329	.1639	-.3413	.1458
57	LALA	2.664	FE	26	1.0670	.0779	-.2446	.1006
57	LALA	2.664	CO	27	1.0819	-.0034	-.1247	.0467
57	LALA	2.664	NI	28	1.1173	-.0688	-.0663	.0179
57	LALA	2.664	CU	29	1.1007	-.0767	-.0289	.0048
57	LALA	2.664	ZN	30	1.1064	-.0892	-.0175	.0004
57	LALA	2.664	GA	31	1.0885	-.0762	-.0131	.0008
57	LALA	2.664	GE	32	1.0830	-.0722	-.0117	.0010
57	LALA	2.664	Y	39	1.0777	-.0748	-.0000	-.0029
57	LALA	2.664	ZR	40	1.0771	-.0740	-.0012	-.0019
57	LALA	2.664	NB	41	1.0804	-.0764	-.0036	-.0005
57	LALA	2.664	MO	42	1.0763	-.0731	-.0028	-.0004
57	LALA	2.664	PD	46	1.0714	-.0701	-.0012	-.0001
57	LALA	2.664	AG	47	1.0759	-.0745	-.0012	-.0001
57	LALA	2.664	CD	48	1.0659	-.0652	-.0006	-.0001
57	LALA	2.664	SN	50	1.0604	-.0602	-.0002	-.0000
57	LALA	2.664	SB	51	1.0506	-.0504	-.0002	-.0000
57	LALA	2.664	CS	55	1.0059	-.0058	-.0001	-.0000
57	LALA	2.664	BA	56	.9977	.0023	.0000	.0000
57	LALA	2.664	CE	58	1.0036	-.0036	.0000	-.0000
57	LALA	2.664	HF	72	.9839	.0196	-.0041	.0006
57	LALA	2.664	TA	73	.9842	.0188	-.0026	-.0005
57	LALA	2.664	W	74	.9831	.0203	-.0029	-.0005
57	LALA	2.664	RE	75	.9834	.0198	-.0022	-.0011
57	LALA	2.664	PT	78	.9831	.0236	-.0016	-.0022
57	LALA	2.664	AU	79	.9819	.0220	-.0018	-.0021
57	LALA	2.664	PB	82	.9763	.0295	-.0038	-.0020
57	LALA	2.664	TH	90	.9574	.0529	-.0091	-.0012
57	LALA	2.664	U	92	.9568	.0553	-.0114	-.0006
58	CELA	2.563	B	5	1.2261	-.1634	-.0396	-.0230
58	CELA	2.564	C	6	1.2645	-.1901	-.0449	-.0294

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
58	CELA	2.560	N	7	1.2558	-.1864	-.0409	-.0284
58	CELA	2.560	O	8	1.2480	-.1826	-.0379	-.0273
58	CELA	2.560	F	9	1.2076	-.1563	-.0307	-.0205
58	CELA	2.560	NA	11	1.2017	-.1554	-.0269	-.0195
58	CELA	2.560	MG	12	1.2354	-.1645	-.0326	-.0182
58	CELA	2.560	AL	13	1.1967	-.1532	-.0282	-.0153
58	CELA	2.560	SI	14	1.2136	-.1673	-.0293	-.0170
58	CELA	2.560	P	15	1.1935	-.1547	-.0250	-.0137
58	CELA	2.560	S	16	1.2090	-.1684	-.0252	-.0154
58	CELA	2.560	CL	17	1.1836	-.1520	-.0191	-.0125
58	CELA	2.560	K	19	1.1895	-.1605	-.0173	-.0117
58	CELA	2.560	CA	20	1.2048	-.1745	-.0174	-.0130
58	CELA	2.560	SC	21	1.1662	-.1470	-.0093	-.0100
58	CELA	2.560	TI	22	1.1216	-.0990	-.0162	-.0065
58	CELA	2.560	V	23	1.1091	-.0880	-.0176	-.0035
58	CELA	2.560	CR	24	1.1071	-.0570	-.0700	.0200
58	CELA	2.560	MN	25	1.0363	.1302	-.2790	.1133
58	CELA	2.560	FE	26	1.0605	.0906	-.2543	.1041
58	CELA	2.560	CO	27	1.0730	.0237	-.1590	.0629
58	CELA	2.560	NI	28	1.1118	-.0548	-.0820	.0253
58	CELA	2.560	CU	29	1.0975	-.0715	-.0327	.0067
58	CELA	2.560	ZN	30	1.1040	-.0874	-.0165	-.0001
58	CELA	2.560	GA	31	1.0860	-.0744	-.0116	.0000
58	CELA	2.560	GE	32	1.0803	-.0703	-.0101	.0002
58	CELA	2.560	Y	39	1.0729	-.0704	.0006	-.0032
58	CELA	2.560	ZR	40	1.0720	-.0691	-.0008	-.0022
58	CELA	2.560	NB	41	1.0750	-.0710	-.0036	-.0005
58	CELA	2.560	MO	42	1.0706	-.0674	-.0029	-.0004
58	CELA	2.560	PD	46	1.0644	-.0630	-.0013	-.0001
58	CELA	2.560	AG	47	1.0685	-.0671	-.0012	-.0001
58	CELA	2.560	CD	48	1.0582	-.0575	-.0006	-.0001
58	CELA	2.560	SN	50	1.0520	-.0518	-.0002	-.0000
58	CELA	2.560	SB	51	1.0493	-.0491	-.0001	-.0000
58	CELA	2.560	CS	55	1.0027	-.0026	-.0001	-.0000
58	CELA	2.560	BA	56	.9943	.0057	.0000	.0000
58	CELA	2.560	LA	57	.9965	.0035	.0000	.0000
58	CELA	2.560	HF	72	.9782	.0260	-.0060	.0018
58	CELA	2.560	TA	73	.9785	.0252	-.0045	.0007
58	CELA	2.560	W	74	.9772	.0264	-.0036	.0000
58	CELA	2.560	RE	75	.9774	.0258	-.0023	-.0009
58	CELA	2.560	PT	78	.9735	.0305	-.0024	-.0016
58	CELA	2.560	AU	79	.9750	.0288	-.0020	-.0019
58	CELA	2.560	PB	82	.9689	.0369	-.0042	-.0016
58	CELA	2.560	TH	90	.9498	.0605	-.0097	-.0006
58	CELA	2.560	U	92	.9487	.0630	-.0110	-.0007

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
73	TAMA	7.250	B	5	1.1497	-.0544	-.0242	-.0708
73	TAMA	7.250	C	6	1.2005	-.0985	-.0117	-.0900
73	TAMA	7.250	N	7	1.2120	-.1257	.0051	-.0911
73	TAMA	7.250	O	8	1.2295	-.1598	.0232	-.0927
73	TAMA	7.250	F	9	1.2196	-.1817	.0475	-.0854
73	TAMA	7.250	NA	11	1.2864	-.2805	.0865	-.0926
73	TAMA	7.250	MG	12	1.3481	-.3525	.1033	-.0990
73	TAMA	7.250	AL	13	1.3748	-.4017	.1264	-.0999
73	TAMA	7.250	SI	14	1.1424	-.0567	-.0380	-.0474
73	TAMA	7.250	P	15	1.1289	-.0551	-.0330	-.0406
73	TAMA	7.250	S	16	1.1500	-.0740	-.0322	-.0436
73	TAMA	7.250	CL	17	1.1328	-.0710	-.0258	-.0359
73	TAMA	7.250	K	19	1.1552	-.0998	-.0208	-.0346
73	TAMA	7.250	CA	20	1.1800	-.1234	-.0204	-.0361
73	TAMA	7.250	SC	21	1.1527	-.1145	-.0105	-.0276
73	TAMA	7.250	TI	22	1.1549	-.1241	-.0058	-.0249
73	TAMA	7.250	V	23	1.1581	-.1344	-.0010	-.0226
73	TAMA	7.250	CR	24	1.1850	-.1612	-.0007	-.0231
73	TAMA	7.250	MN	25	1.1922	-.1746	.0037	-.0214
73	TAMA	7.250	FE	26	1.2223	-.2043	.0035	-.0215
73	TAMA	7.250	CO	27	1.2306	-.2185	.0079	-.0199
73	TAMA	7.250	NI	28	1.2741	-.2587	.0048	-.0202
73	TAMA	7.250	CU	29	1.2672	-.2615	.0126	-.0183
73	TAMA	7.250	ZN	30	1.2917	-.2876	.0137	-.0177
73	TAMA	7.250	GA	31	1.2939	-.2961	.0194	-.0173
73	TAMA	7.250	GE	32	1.3114	-.3162	.0220	-.0172
73	TAMA	7.250	Y	39	1.0768	-.0599	-.0121	-.0049
73	TAMA	7.250	ZR	40	1.0810	-.0654	-.0113	-.0043
73	TAMA	7.250	NB	41	1.0891	-.0741	-.0109	-.0041
73	TAMA	7.250	MO	42	1.0898	-.0769	-.0092	-.0036
73	TAMA	7.250	PD	46	1.1056	-.0984	-.0050	-.0022
73	TAMA	7.250	AG	47	1.1163	-.1094	-.0048	-.0021
73	TAMA	7.250	CD	48	1.1121	-.1075	-.0029	-.0017
73	TAMA	7.250	SN	50	1.1191	-.1165	-.0013	-.0013
73	TAMA	7.250	SB	51	1.1238	-.1219	-.0008	-.0012
73	TAMA	7.250	CS	55	1.1516	-.1502	-.0004	-.0010
73	TAMA	7.250	BA	56	1.1527	-.1511	-.0005	-.0011
73	TAMA	7.250	LA	57	1.1661	-.1639	-.0011	-.0011
73	TAMA	7.250	CE	58	1.1813	-.1785	-.0016	-.0012
73	TAMA	7.250	HF	72	1.0490	-.0482	-.0008	-.0000
73	TAMA	7.250	W	74	.9974	.0035	-.0011	.0002
73	TAMA	7.250	RE	75	.9965	.0091	-.0088	.0032
73	TAMA	7.250	PT	78	.9983	.0056	-.0056	.0018
73	TAMA	7.250	AU	79	1.0017	.0017	-.0049	.0015
73	TAMA	7.250	PB	82	1.0007	.0033	-.0053	.0012

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
73	TAMA	7.250	TH	90	1.0106	-.0025	-.0090	.0009
73	TAMA	7.250	U	92	1.0153	-.0054	-.0106	.0008
74	WMA	6.984	B	5	1.1557	-.0593	-.0252	-.0709
74	WMA	6.984	C	6	1.2053	-.1012	-.0139	-.0898
74	WMA	6.984	N	7	1.2149	-.1255	.0012	-.0903
74	WMA	6.984	O	8	1.2300	-.1560	.0175	-.0913
74	WMA	6.984	F	9	1.2173	-.1738	.0395	-.0831
74	WMA	6.984	NA	11	1.2774	-.2633	.0746	-.0889
74	WMA	6.984	MG	12	1.3347	-.3296	.0896	-.0948
74	WMA	6.984	AL	13	1.3574	-.3736	.1105	-.0946
74	WMA	6.984	SI	14	1.1477	-.0613	-.0381	-.0481
74	WMA	6.984	P	15	1.1334	-.0587	-.0334	-.0412
74	WMA	6.984	S	16	1.1538	-.0767	-.0328	-.0441
74	WMA	6.984	CL	17	1.1358	-.0725	-.0268	-.0363
74	WMA	6.984	K	19	1.1562	-.0990	-.0222	-.0350
74	WMA	6.984	CA	20	1.1799	-.1213	-.0220	-.0365
74	WMA	6.984	SC	21	1.1513	-.1110	-.0126	-.0277
74	WMA	6.984	TI	22	1.1522	-.1191	-.0081	-.0249
74	WMA	6.984	V	23	1.1541	-.1280	-.0036	-.0225
74	WMA	6.984	CR	24	1.1796	-.1530	-.0035	-.0230
74	WMA	6.984	MN	25	1.1853	-.1648	.0008	-.0212
74	WMA	6.984	FE	26	1.2137	-.1928	.0005	-.0214
74	WMA	6.984	CO	27	1.2203	-.2053	.0047	-.0197
74	WMA	6.984	NI	28	1.2619	-.2434	.0017	-.0202
74	WMA	6.984	CU	29	1.2534	-.2447	.0092	-.0179
74	WMA	6.984	ZN	30	1.2759	-.2690	.0104	-.0173
74	WMA	6.984	GA	31	1.2765	-.2760	.0160	-.0165
74	WMA	6.984	GE	32	1.2920	-.2943	.0185	-.0163
74	WMA	6.984	Y	39	1.0767	-.0588	-.0128	-.0051
74	WMA	6.984	ZR	40	1.0804	-.0638	-.0121	-.0046
74	WMA	6.984	NB	41	1.0880	-.0720	-.0117	-.0044
74	WMA	6.984	MO	42	1.0881	-.0743	-.0101	-.0038
74	WMA	6.984	PD	46	1.1016	-.0934	-.0058	-.0023
74	WMA	6.984	AG	47	1.1117	-.1038	-.0057	-.0022
74	WMA	6.984	CD	48	1.1068	-.1013	-.0037	-.0017
74	WMA	6.984	SN	50	1.1124	-.1092	-.0019	-.0013
74	WMA	6.984	SB	51	1.1164	-.1139	-.0013	-.0012
74	WMA	6.984	CS	55	1.1410	-.1397	-.0005	-.0009
74	WMA	6.984	BA	56	1.1414	-.1401	-.0004	-.0009
74	WMA	6.984	LA	57	1.1539	-.1522	-.0008	-.0010
74	WMA	6.984	CE	58	1.1682	-.1659	-.0013	-.0009
74	WMA	6.984	HF	72	1.1764	-.1670	-.0076	-.0017
74	WMA	6.984	TA	73	1.0491	-.0484	-.0007	-.0000
74	WMA	6.984	RE	75	.9986	.0024	-.0013	.0003
74	WMA	6.984	PT	78	.9969	.0077	-.0069	.0023

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
74	WMA	6.984	AU	79	1.0002	.0038	-.0059	.0019
74	WMA	6.984	PB	82	.9988	.0055	-.0058	.0016
74	WMA	6.984	TH	90	1.0071	.0003	-.0084	.0010
74	WMA	6.984	U	92	1.0112	-.0025	-.0095	.0008
75	REMA	6.732	B	5	1.1599	-.0631	-.0261	-.0704
75	REMA	6.732	C	6	1.2083	-.1032	-.0157	-.0890
75	REMA	6.732	N	7	1.2162	-.1247	-.0022	-.0890
75	REMA	6.732	O	8	1.2291	-.1519	.0125	-.0894
75	REMA	6.732	F	9	1.2139	-.1659	.0325	-.0804
75	REMA	6.732	NA	11	1.2679	-.2471	.0644	-.0853
75	REMA	6.732	MG	12	1.3212	-.3082	.0777	-.0908
75	REMA	6.732	AL	13	1.3402	-.3474	.0967	-.0898
75	REMA	6.732	SI	14	1.4003	-.4118	.1043	-.0930
75	REMA	6.732	P	15	1.1363	-.0614	-.0334	-.0413
75	REMA	6.732	S	16	1.1561	-.0786	-.0330	-.0443
75	REMA	6.732	CL	17	1.1372	-.0733	-.0274	-.0363
75	REMA	6.732	K	19	1.1558	-.0976	-.0232	-.0350
75	REMA	6.732	CA	20	1.1785	-.1186	-.0232	-.0366
75	REMA	6.732	SC	21	1.1489	-.1071	-.0142	-.0276
75	REMA	6.732	TI	22	1.1486	-.1139	-.0099	-.0248
75	REMA	6.732	V	23	1.1493	-.1213	-.0058	-.0222
75	REMA	6.732	CR	24	1.1733	-.1448	-.0057	-.0228
75	REMA	6.732	MN	25	1.1776	-.1551	-.0015	-.0209
75	REMA	6.732	FE	26	1.2045	-.1814	-.0019	-.0213
75	REMA	6.732	CO	27	1.2097	-.1923	.0021	-.0194
75	REMA	6.732	NI	28	1.2495	-.2286	-.0007	-.0202
75	REMA	6.732	CU	29	1.2394	-.2283	.0065	-.0176
75	REMA	6.732	ZN	30	1.2602	-.2508	.0076	-.0170
75	REMA	6.732	GA	31	1.2591	-.2563	.0130	-.0159
75	REMA	6.732	GE	32	1.2728	-.2729	.0156	-.0155
75	REMA	6.732	Y	39	1.0754	-.0569	-.0133	-.0052
75	REMA	6.732	ZR	40	1.0787	-.0614	-.0125	-.0047
75	REMA	6.732	NB	41	1.0858	-.0691	-.0122	-.0045
75	REMA	6.732	MO	42	1.0854	-.0708	-.0106	-.0039
75	REMA	6.732	PD	46	1.0967	-.0878	-.0064	-.0025
75	REMA	6.732	AG	47	1.1061	-.0975	-.0062	-.0023
75	REMA	6.732	CD	48	1.1006	-.0946	-.0042	-.0018
75	REMA	6.732	SN	50	1.1050	-.1013	-.0025	-.0013
75	REMA	6.732	SB	51	1.1083	-.1054	-.0017	-.0012
75	REMA	6.732	CS	55	1.1300	-.1287	-.0006	-.0008
75	REMA	6.732	BA	56	1.1297	-.1285	-.0003	-.0008
75	REMA	6.732	LA	57	1.1413	-.1399	-.0007	-.0008
75	REMA	6.732	CE	58	1.1547	-.1528	-.0011	-.0007
75	REMA	6.732	HF	72	1.1601	-.1526	-.0062	-.0013
75	REMA	6.732	TA	73	1.1683	-.1596	-.0071	-.0016

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
75	REMA	6.732	W	74	1.0464	-.0456	-.0007	-.0000
75	REMA	6.732	PT	78	.9941	-.0114	-.0086	.0030
75	REMA	6.732	AU	79	.9974	-.0075	-.0073	.0025
75	REMA	6.732	PB	82	.9955	-.0093	-.0069	.0021
75	REMA	6.732	TH	90	1.0024	-.0046	-.0082	.0012
75	REMA	6.732	U	92	1.0060	-.0020	-.0089	.0009
78	PTMA	6.049	B	5	1.1776	-.0777	-.0278	-.0718
78	PTMA	6.049	C	6	1.2236	-.1134	-.0202	-.0896
78	PTMA	6.049	N	7	1.2272	-.1283	-.0102	-.0884
78	PTMA	6.049	O	8	1.2349	-.1477	.0005	-.0874
78	PTMA	6.049	F	9	1.2133	-.1524	.0153	-.0761
78	PTMA	6.049	NA	11	1.2524	-.2132	.0390	-.0782
78	PTMA	6.049	MG	12	1.2960	-.2618	.0489	-.0832
78	PTMA	6.049	AL	13	1.3059	-.2892	.0630	-.0798
78	PTMA	6.049	SI	14	1.3558	-.3415	.0688	-.0831
78	PTMA	6.049	P	15	1.1504	-.0729	-.0342	-.0432
78	PTMA	6.049	S	16	1.1688	-.0881	-.0342	-.0463
78	PTMA	6.049	CL	17	1.1477	-.0803	-.0293	-.0380
78	PTMA	6.049	K	19	1.1620	-.0991	-.0265	-.0363
78	PTMA	6.049	CA	20	1.1823	-.1172	-.0268	-.0381
78	PTMA	6.049	SC	21	1.1498	-.1025	-.0188	-.0284
78	PTMA	6.049	TI	22	1.1466	-.1060	-.0152	-.0253
78	PTMA	6.049	V	23	1.1442	-.1099	-.0118	-.0224
78	PTMA	6.049	CR	24	1.1650	-.1297	-.0120	-.0232
78	PTMA	6.049	MN	25	1.1658	-.1363	-.0084	-.0211
78	PTMA	6.049	FE	26	1.1890	-.1584	-.0089	-.0216
78	PTMA	6.049	CO	27	1.1903	-.1656	-.0051	-.0196
78	PTMA	6.049	NI	28	1.2258	-.1969	-.0079	-.0209
78	PTMA	6.049	CU	29	1.2118	-.1932	-.0012	-.0175
78	PTMA	6.049	ZN	30	1.2282	-.2111	-.0003	-.0168
78	PTMA	6.049	GA	31	1.2230	-.2129	.0049	-.0150
78	PTMA	6.049	GE	32	1.2322	-.2252	.0071	-.0142
78	PTMA	6.049	Y	39	1.0784	-.0572	-.0152	-.0059
78	PTMA	6.049	ZR	40	1.0805	-.0605	-.0147	-.0053
78	PTMA	6.049	NB	41	1.0864	-.0668	-.0144	-.0052
78	PTMA	6.049	MO	42	1.0848	-.0674	-.0129	-.0045
78	PTMA	6.049	PD	46	1.0907	-.0790	-.0087	-.0030
78	PTMA	6.049	AG	47	1.0986	-.0872	-.0086	-.0028
78	PTMA	6.049	CD	48	1.0916	-.0830	-.0065	-.0022
78	PTMA	6.049	SN	50	1.0928	-.0868	-.0044	-.0016
78	PTMA	6.049	SB	51	1.0943	-.0894	-.0036	-.0013
78	PTMA	6.049	CS	55	1.1087	-.1063	-.0017	-.0007
78	PTMA	6.049	BA	56	1.1064	-.1049	-.0010	-.0006
78	PTMA	6.049	LA	57	1.1160	-.1143	-.0011	-.0005
78	PTMA	6.049	CE	58	1.1272	-.1253	-.0014	-.0005

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	P0	P1	P2	P3
78	PTMA	6.049	HF	72	1.1253	-.1219	-.0029	-.0005
78	PTMA	6.049	TA	73	1.1316	-.1275	-.0034	-.0006
78	PTMA	6.049	W	74	1.1367	-.1318	-.0041	-.0007
78	PTMA	6.049	RE	75	1.1437	-.1380	-.0048	-.0009
78	PTMA	6.049	AU	79	.9984	.0030	-.0019	.0004
78	PTMA	6.049	PB	82	.9925	.0133	-.0089	.0030
78	PTMA	6.049	TH	90	.9962	.0085	-.0055	.0009
78	PTMA	6.049	U	92	.9979	.0080	-.0070	.0011
79	AUMA	5.843	B	5	1.1801	-.0807	-.0277	-.0712
79	AUMA	5.843	C	6	1.2253	-.1151	-.0212	-.0886
79	AUMA	5.843	N	7	1.2278	-.1282	-.0121	-.0871
79	AUMA	5.843	O	8	1.2340	-.1454	-.0025	-.0858
79	AUMA	5.843	F	9	1.2107	-.1476	.0110	-.0740
79	AUMA	5.843	NA	11	1.2457	-.2027	.0327	-.0757
79	AUMA	5.843	MG	12	1.2864	-.2476	.0416	-.0804
79	AUMA	5.843	AL	13	1.2938	-.2717	.0545	-.0767
79	AUMA	5.843	SI	14	1.3407	-.3205	.0597	-.0800
79	AUMA	5.843	P	15	1.1519	-.0748	-.0340	-.0430
79	AUMA	5.843	S	16	1.1698	-.0895	-.0340	-.0461
79	AUMA	5.843	CL	17	1.1482	-.0809	-.0295	-.0377
79	AUMA	5.843	K	19	1.1613	-.0982	-.0269	-.0361
79	AUMA	5.843	CA	20	1.1809	-.1155	-.0273	-.0379
79	AUMA	5.843	SC	21	1.1476	-.0998	-.0196	-.0281
79	AUMA	5.843	TI	22	1.1436	-.1024	-.0162	-.0250
79	AUMA	5.843	V	23	1.1404	-.1053	-.0129	-.0221
79	AUMA	5.843	CR	24	1.1602	-.1240	-.0132	-.0230
79	AUMA	5.843	MN	25	1.1601	-.1295	-.0097	-.0208
79	AUMA	5.843	FE	26	1.1821	-.1504	-.0103	-.0214
79	AUMA	5.843	CO	27	1.1824	-.1564	-.0067	-.0193
79	AUMA	5.843	NI	28	1.2166	-.1864	-.0094	-.0208
79	AUMA	5.843	CU	29	1.2016	-.1815	-.0029	-.0173
79	AUMA	5.843	ZN	30	1.2167	-.1981	-.0020	-.0166
79	AUMA	5.843	GA	31	1.2103	-.1987	.0031	-.0147
79	AUMA	5.843	GE	32	1.2182	-.2097	.0052	-.0138
79	AUMA	5.843	Y	39	1.2159	-.2093	.0010	-.0076
79	AUMA	5.843	ZR	40	1.0786	-.0584	-.0149	-.0053
79	AUMA	5.843	NB	41	1.0842	-.0644	-.0146	-.0052
79	AUMA	5.843	MO	42	1.0822	-.0646	-.0131	-.0045
79	AUMA	5.843	PD	46	1.0866	-.0746	-.0091	-.0029
79	AUMA	5.843	AG	47	1.0941	-.0823	-.0089	-.0028
79	AUMA	5.843	CD	48	1.0867	-.0777	-.0068	-.0022
79	AUMA	5.843	SN	50	1.0869	-.0806	-.0047	-.0016
79	AUMA	5.843	SB	51	1.0880	-.0828	-.0039	-.0014
79	AUMA	5.843	CS	55	1.1002	-.0977	-.0018	-.0007
79	AUMA	5.843	BA	56	1.0974	-.0958	-.0010	-.0006

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
79	AUMA	5.843	LA	57	1.1064	-.1047	-.0012	-.0005
79	AUMA	5.843	CE	58	1.1169	-.1151	-.0014	-.0004
79	AUMA	5.843	HF	72	1.1371	-.1329	-.0035	-.0007
79	AUMA	5.843	TA	73	1.1186	-.1154	-.0028	-.0005
79	AUMA	5.843	W	74	1.1232	-.1193	-.0034	-.0006
79	AUMA	5.843	RE	75	1.1296	-.1250	-.0039	-.0007
79	AUMA	5.843	PT	78	1.0405	-.0399	-.0006	-.0000
79	AUMA	5.843	PB	82	.9888	.0183	-.0110	.0039
79	AUMA	5.843	TH	90	.9916	.0133	-.0060	.0011
79	AUMA	5.843	U	92	.9929	.0131	-.0074	.0013
82	PBMA	5.285	B	5	1.2006	-.0965	-.0293	-.0745
82	PBMA	5.285	C	6	1.2445	-.1283	-.0239	-.0918
82	PBMA	5.285	N	7	1.2442	-.1373	-.0170	-.0895
82	PBMA	5.285	O	8	1.2469	-.1494	-.0097	-.0874
82	PBMA	5.285	F	9	1.2191	-.1452	-.0002	-.0735
82	PBMA	5.285	NA	11	1.2440	-.1865	.0158	-.0732
82	PBMA	5.285	MG	12	1.2783	-.2230	.0222	-.0775
82	PBMA	5.285	AL	13	1.2793	-.2391	.0321	-.0723
82	PBMA	5.285	SI	14	1.3193	-.2797	.0364	-.0759
82	PBMA	5.285	P	15	1.3236	-.3003	.0479	-.0712
82	PBMA	5.285	S	16	1.1865	-.1018	-.0351	-.0494
82	PBMA	5.285	CL	17	1.1632	-.0913	-.0313	-.0405
82	PBMA	5.285	K	19	1.1734	-.1051	-.0295	-.0387
82	PBMA	5.285	CA	20	1.1914	-.1203	-.0303	-.0407
82	PBMA	5.285	SC	21	1.1559	-.1023	-.0236	-.0299
82	PBMA	5.285	TI	22	1.1499	-.1026	-.0207	-.0265
82	PBMA	5.285	V	23	1.1444	-.1031	-.0180	-.0232
82	PBMA	5.285	CR	24	1.1621	-.1194	-.0184	-.0243
82	PBMA	5.285	MN	25	1.1596	-.1224	-.0153	-.0219
82	PBMA	5.285	FE	26	1.1792	-.1404	-.0159	-.0228
82	PBMA	5.285	CO	27	1.1768	-.1437	-.0126	-.0204
82	PBMA	5.285	NI	28	1.2081	-.1703	-.0153	-.0224
82	PBMA	5.285	CU	29	1.1902	-.1628	-.0092	-.0182
82	PBMA	5.285	ZN	30	1.2022	-.1762	-.0085	-.0175
82	PBMA	5.285	GA	31	1.1928	-.1741	-.0037	-.0151
82	PBMA	5.285	GE	32	1.1975	-.1820	-.0016	-.0139
82	PBMA	5.285	Y	39	1.2456	-.2383	.0014	-.0087
82	PBMA	5.285	ZR	40	1.2538	-.2471	.0012	-.0079
82	PBMA	5.285	NB	41	1.0913	-.0680	-.0172	-.0060
82	PBMA	5.285	MO	42	1.0884	-.0674	-.0158	-.0053
82	PBMA	5.285	PD	46	1.0889	-.0737	-.0116	-.0036
82	PBMA	5.285	AG	47	1.0954	-.0803	-.0116	-.0035
82	PBMA	5.285	CD	48	1.0869	-.0748	-.0094	-.0027
82	PBMA	5.285	SN	50	1.0848	-.0757	-.0072	-.0019
82	PBMA	5.285	SB	51	1.0847	-.0768	-.0062	-.0017

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
82	PBMA	5.285	CS	55	1.0916	-.0871	-.0035	-.0009
82	PBMA	5.285	BA	56	1.0874	-.0843	-.0024	-.0007
82	PBMA	5.285	LA	57	1.0949	-.0918	-.0024	-.0007
82	PBMA	5.285	CE	58	1.1039	-.1008	-.0025	-.0006
82	PBMA	5.285	HF	72	1.1135	-.1116	-.0016	-.0003
82	PBMA	5.285	TA	73	1.1186	-.1164	-.0018	-.0003
82	PBMA	5.285	W	74	1.1225	-.1199	-.0022	-.0004
82	PBMA	5.285	RE	75	1.1283	-.1252	-.0026	-.0005
82	PBMA	5.285	PT	78	1.1175	-.1141	-.0029	-.0004
82	PBMA	5.285	AU	79	1.1246	-.1208	-.0033	-.0005
82	PBMA	5.285	TH	90	.9908	.0137	-.0061	.0016
82	PBMA	5.285	U	92	.9913	.0137	-.0067	.0016
90	THMA	4.137	B	5	1.2469	-.1331	-.0319	-.0814
90	THMA	4.137	C	6	1.2890	-.1609	-.0291	-.0984
90	THMA	4.137	N	7	1.2840	-.1629	-.0262	-.0945
90	THMA	4.137	O	8	1.2809	-.1668	-.0228	-.0910
90	THMA	4.137	F	9	1.2453	-.1523	-.0182	-.0746
90	THMA	4.137	NA	11	1.2537	-.1713	-.0108	-.0714
90	THMA	4.137	MG	12	1.2775	-.1938	-.0085	-.0750
90	THMA	4.137	AL	13	1.2675	-.1965	-.0027	-.0681
90	THMA	4.137	SI	14	1.2958	-.2226	-.0011	-.0720
90	THMA	4.137	P	15	1.2866	-.2270	.0053	-.0648
90	THMA	4.137	S	16	1.3153	-.2542	.0062	-.0671
90	THMA	4.137	CL	17	1.3017	-.2562	.0138	-.0592
90	THMA	4.137	K	19	1.2038	-.1252	-.0341	-.0442
90	THMA	4.137	CA	20	1.2193	-.1375	-.0348	-.0468
90	THMA	4.137	SC	21	1.1796	-.1152	-.0297	-.0346
90	THMA	4.137	TI	22	1.1699	-.1114	-.0280	-.0304
90	THMA	4.137	V	23	1.1607	-.1076	-.0265	-.0264
90	THMA	4.137	CR	24	1.1747	-.1196	-.0274	-.0277
90	THMA	4.137	MN	25	1.1681	-.1181	-.0249	-.0250
90	THMA	4.137	FE	26	1.1834	-.1313	-.0258	-.0262
90	THMA	4.137	CO	27	1.1764	-.1295	-.0238	-.0230
90	THMA	4.137	NI	28	1.2029	-.1507	-.0260	-.0262
90	THMA	4.137	CU	29	1.1800	-.1382	-.0211	-.0206
90	THMA	4.137	ZN	30	1.1867	-.1462	-.0201	-.0203
90	THMA	4.137	GA	31	1.1720	-.1390	-.0162	-.0168
90	THMA	4.137	GE	32	1.1711	-.1415	-.0140	-.0156
90	THMA	4.137	Y	39	1.2057	-.1880	-.0075	-.0101
90	THMA	4.137	ZR	40	1.2103	-.1935	-.0077	-.0090
90	THMA	4.137	NB	41	1.2208	-.2045	-.0076	-.0086
90	THMA	4.137	MO	42	1.2230	-.2089	-.0062	-.0079
90	THMA	4.137	PD	46	1.0995	-.0772	-.0171	-.0051
90	THMA	4.137	AG	47	1.1042	-.0819	-.0172	-.0051
90	THMA	4.137	CD	48	1.0937	-.0748	-.0150	-.0039

TABLE A3.- Continued

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
90	THMA	4.137	SN	50	1.0875	-.0719	-.0127	-.0029
90	THMA	4.137	SB	51	1.0853	-.0711	-.0116	-.0025
90	THMA	4.137	CS	55	1.0829	-.0729	-.0086	-.0014
90	THMA	4.137	BA	56	1.0763	-.0683	-.0069	-.0011
90	THMA	4.137	LA	57	1.0812	-.0732	-.0068	-.0011
90	THMA	4.137	CE	58	1.0875	-.0796	-.0066	-.0013
90	THMA	4.137	HF	72	1.1076	-.1060	-.0013	-.0002
90	THMA	4.137	TA	73	1.1110	-.1095	-.0013	-.0002
90	THMA	4.137	W	74	1.1132	-.1118	-.0012	-.0002
90	THMA	4.137	RE	75	1.1173	-.1158	-.0013	-.0002
90	THMA	4.137	PT	78	1.0880	-.0871	-.0008	-.0001
90	THMA	4.137	AU	79	1.0927	-.0918	-.0008	-.0001
90	THMA	4.137	PB	82	1.0800	-.0793	-.0007	-.0001
90	THMA	4.137	U	92	.9957	.0052	-.0011	.0002
92	UMA	3.911	B	5	1.2584	-.1420	-.0333	-.0826
92	UMA	3.911	C	6	1.3004	-.1696	-.0301	-.1001
92	UMA	3.911	N	7	1.2946	-.1703	-.0282	-.0956
92	UMA	3.911	O	8	1.2906	-.1730	-.0252	-.0920
92	UMA	3.911	F	9	1.2536	-.1569	-.0212	-.0753
92	UMA	3.911	NA	11	1.2594	-.1724	-.0151	-.0717
92	UMA	3.911	MG	12	1.2816	-.1928	-.0132	-.0753
92	UMA	3.911	AL	13	1.2698	-.1932	-.0083	-.0681
92	UMA	3.911	SI	14	1.2963	-.2171	-.0072	-.0719
92	UMA	3.911	P	15	1.2848	-.2188	-.0015	-.0644
92	UMA	3.911	S	16	1.3114	-.2435	-.0010	-.0668
92	UMA	3.911	CL	17	1.2953	-.2426	.0057	-.0584
92	UMA	3.911	K	19	1.2121	-.1311	-.0354	-.0454
92	UMA	3.911	CA	20	1.2272	-.1427	-.0364	-.0478
92	UMA	3.911	SC	21	1.1868	-.1199	-.0314	-.0354
92	UMA	3.911	TI	22	1.1765	-.1157	-.0292	-.0315
92	UMA	3.911	V	23	1.1666	-.1111	-.0281	-.0274
92	UMA	3.911	CR	24	1.1801	-.1224	-.0290	-.0287
92	UMA	3.911	MN	25	1.1727	-.1201	-.0269	-.0256
92	UMA	3.911	FE	26	1.1874	-.1325	-.0279	-.0269
92	UMA	3.911	CO	27	1.1796	-.1300	-.0256	-.0239
92	UMA	3.911	NI	28	1.2054	-.1503	-.0279	-.0271
92	UMA	3.911	CU	29	1.1816	-.1370	-.0231	-.0214
92	UMA	3.911	ZN	30	1.1875	-.1440	-.0223	-.0211
92	UMA	3.911	GA	31	1.1718	-.1358	-.0187	-.0172
92	UMA	3.911	GE	32	1.1700	-.1374	-.0167	-.0159
92	UMA	3.911	Y	39	1.1971	-.1766	-.0099	-.0106
92	UMA	3.911	ZR	40	1.2008	-.1811	-.0102	-.0095
92	UMA	3.911	NB	41	1.2101	-.1910	-.0100	-.0091
92	UMA	3.911	MO	42	1.2110	-.1942	-.0087	-.0081
92	UMA	3.911	PD	46	1.1038	-.0800	-.0183	-.0055

TABLE A3.- Concluded

Z_A	A	λ_A, Å	B	Z_B	p_0	p_1	p_2	p_3
92	UMA	3.911	AG	47	1.1081	-.0843	-.0183	-.0055
92	UMA	3.911	CD	48	1.0973	-.0769	-.0160	-.0044
92	UMA	3.911	SN	50	1.0904	-.0735	-.0136	-.0034
92	UMA	3.911	SB	51	1.0878	-.0722	-.0127	-.0029
92	UMA	3.911	CS	55	1.0839	-.0727	-.0095	-.0018
92	UMA	3.911	BA	56	1.0769	-.0676	-.0079	-.0014
92	UMA	3.911	LA	57	1.0813	-.0722	-.0077	-.0014
92	UMA	3.911	CE	58	1.0872	-.0779	-.0079	-.0014
92	UMA	3.911	HF	72	1.0998	-.0980	-.0016	-.0003
92	UMA	3.911	TA	73	1.1026	-.1009	-.0014	-.0002
92	UMA	3.911	W	74	1.1042	-.1027	-.0013	-.0002
92	UMA	3.911	RE	75	1.1076	-.1062	-.0012	-.0002
92	UMA	3.911	PT	78	1.0988	-.0977	-.0009	-.0001
92	UMA	3.911	AU	79	1.1035	-.1025	-.0009	-.0001
92	UMA	3.911	PB	82	1.0862	-.0854	-.0007	-.0001
92	UMA	3.911	TH	90	1.0022	-.0022	-.0000	-.0000

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Jalaiah Unnam: Virginia Polytechnic Institute and State University, Blacksburg, Virginia.

16. Abstract

An on-line correction technique has been developed for the conversion of electron probe X-ray intensities into concentrations of emitting elements. This technique consisted of off-line calculation and representation of binary interaction data which were read into an on-line minicomputer to calculate variable correction coefficients. These coefficients were used to correct the X-ray data without significantly increasing computer core requirements. The binary interaction data were obtained by running Colby's MAGIC IV program in the reverse mode. The data for each binary interaction were represented by polynomial coefficients obtained by least-squares fitting a third-order polynomial for $\sqrt{C/K}$ as a function of K, where C and K are the concentration and relative intensity of the element being considered. These polynomial coefficients were generated for most of the common binary interactions at different accelerating potentials and are included. Results are presented for the analyses of several alloy standards to demonstrate the applicability of this correction procedure.

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