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Coupled Neutron-Gamma Multigroup-Multitable  
Cross Sections for 29 Materials Pertinent  
to Nuclear Weapons Effect Calculations  
Generated by LASL/TD Division

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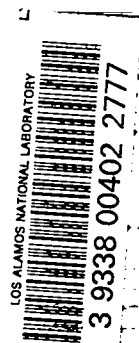
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H. A. Sandmeier  
G. E. Hansen  
R. E. Seamon  
T. J. Hirons  
A. H. Marshall



COUPLED NEUTRON-GAMMA MULTIGROUP-MULTITABLE  
CROSS SECTIONS FOR 29 MATERIALS PERTINENT TO NUCLEAR  
WEAPONS EFFECT CALCULATIONS GENERATED BY LASL/TD DIVISION

by

H. A. Sandmeier, G. E. Hansen, R. E. Seamon,  
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ABSTRACT

This report lists 42-group, coupled, neutron-gamma cross sections for H, D, T,  $^3\text{He}$ ,  $^4\text{He}$ ,  $^6\text{Li}$ ,  $^7\text{Li}$ , Be,  $^{10}\text{B}$ ,  $^{11}\text{B}$ , C, N, O, Na, Mg, Al, Si, Cl, A, K, Ca, Fe, Cu, W, Pb,  $^{235}\text{U}$ ,  $^{238}\text{U}$ ,  $^{239}\text{Pu}$ , and  $^{240}\text{Pu}$ . Most of these materials are used in nuclear weapons effects calculations, where the elements for air, ground, and sea water are needed. Further, we list cross sections for materials used in nuclear weapons vulnerability calculations, such as the elements of high explosives as well as materials that will undergo fusion and fission. Most of the common reactor materials are also listed. The 42 coupled neutron-gamma groups are split into 30 neutron groups (17 MeV through  $1.39 \times 10^{-4}$  eV) and 12 gamma groups (10 MeV through 0.01 MeV). Data sources and averaging schemes used for the development of these multigroup parameters are given.

I. INTRODUCTION

Coupled neutron-gamma cross sections are being widely used among vulnerability and weapons effect investigators in the U.S. We have reported their use in several Los Alamos Scientific Laboratory (LASL) reports dealing with nuclear weapons neutron and gamma output<sup>1</sup> and nuclear weapons effect studies in the atmosphere.<sup>2</sup> The advantage here is that the combined problem of neutron-transport, neutron-induced gamma production, and gamma transport is done in one calculation with coupled neutron-gamma cross-section sets. Unfortunately, up until very recently, the neutron and gamma production cross sections have been prepared separately. It was therefore not surprising that we had to "match up" the neutron and gamma production data accordingly. This was especially true in the thermal energy range.

II. FORMAT FOR COUPLED NEUTRON-GAMMA CROSS-SECTION SETS

The general format of a coupled neutron-gamma cross-section set is shown in Table I. The first column lists the discrete ordinate  $S_n$  format for cross sections used at LASL, i.e.,  $\sigma_a$ ,  $\nu\sigma_f$ ,  $\sigma_g$ ,  $\sigma_{gg}$ ,  $\sigma_{g-1 \rightarrow g}$ ,  $\sigma_{g-2 \rightarrow g}$ , ...,  $\sigma_{g-41 \rightarrow g}$ . The table length in the vertical direction is 45. The 30 neutron and 12 gamma group numbers are labeled along the top. The cross-section sets in this report do not contain any photoneutron production, and an energy upscatter mechanism for neutrons or gammas is not allowed for. The neutron-energy group structure (1 through 30) is listed in Table II and the gamma-energy group structure is listed in Table III. The multigroup-multitable cross-section sets for the 29 materials are listed in the Appendix. A LASL code NGXSEC was written by one of us (AHM) to assemble the three components for the coupled sets, namely, neutron, gamma, and gamma-production cross sections.

TABLE I  
 FORMAT FOR 42-GROUP (30 NEUTRON AND 12 GAMMA) COUPLED  
 NEUTRON-GAMMA CROSS-SECTION SETS

XSEC	NEUTRON GROUPS					GAMMA GROUPS																	
	1	2	3	4	5	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
$\sigma_a$																							
$\nu\sigma_f$																							
$\sigma_g$																							
$\sigma_{gg}$																							
$g-1 \rightarrow g$											$\sigma_{31-31}$												
$g-2 \rightarrow g$											$\sigma_{30-31}$	$\sigma_{31-32}$											
$g-3 \rightarrow g$												$\sigma_{30-32}$	$\sigma_{31-33}$										
$g-4 \rightarrow g$													$\sigma_{30-33}$	$\sigma_{31-34}$									
$g-5 \rightarrow g$														$\sigma_{30-34}$	$\sigma_{31-35}$								
$g-6 \rightarrow g$															$\sigma_{30-35}$	$\sigma_{31-36}$							
$g-7 \rightarrow g$																$\sigma_{30-36}$	$\sigma_{31-37}$						
$g-8 \rightarrow g$																	$\sigma_{30-37}$	$\sigma_{31-38}$					
$g-9 \rightarrow g$																		$\sigma_{30-38}$	$\sigma_{31-39}$				
$g-10 \rightarrow g$																			$\sigma_{30-39}$	$\sigma_{31-40}$			
$g-11 \rightarrow g$																				$\sigma_{30-40}$	$\sigma_{31-41}$		
$g-12 \rightarrow g$																					$\sigma_{30-41}$	$\sigma_{31-42}$	
$g-13 \rightarrow g$																						$\sigma_{30-42}$	
$g-14 \rightarrow g$																							
$g-15 \rightarrow g$																							
$g-16 \rightarrow g$																							
$g-17 \rightarrow g$																							
$g-18 \rightarrow g$																							
$g-19 \rightarrow g$																							
$g-20 \rightarrow g$																							
$g-21 \rightarrow g$																							
$g-22 \rightarrow g$																							
$g-23 \rightarrow g$																							
$g-24 \rightarrow g$																							
$g-25 \rightarrow g$																							
$g-26 \rightarrow g$																							
$g-27 \rightarrow g$																							
$g-28 \rightarrow g$																							
$g-29 \rightarrow g$																							
$g-30 \rightarrow g$											$\sigma_{1-31}$												
$g-31 \rightarrow g$											0	$\sigma_{1-32}$											
$g-32 \rightarrow g$											0	0	$\sigma_{1-33}$										
$g-33 \rightarrow g$											0	0	0	$\sigma_{1-34}$									
$g-34 \rightarrow g$											0	0	0	0	$\sigma_{1-35}$								
$g-35 \rightarrow g$											0	0	0	0	0	$\sigma_{1-36}$							
$g-36 \rightarrow g$											0	0	0	0	0	0	$\sigma_{1-37}$						
$g-37 \rightarrow g$											0	0	0	0	0	0	0	$\sigma_{1-38}$					
$g-38 \rightarrow g$											0	0	0	0	0	0	0	0	$\sigma_{1-39}$				
$g-39 \rightarrow g$											0	0	0	0	0	0	0	0	0	$\sigma_{1-40}$			
$g-40 \rightarrow g$											0	0	0	0	0	0	0	0	0	0	$\sigma_{1-41}$		
$g-41 \rightarrow g$											0	0	0	0	0	0	0	0	0	0	0	$\sigma_{1-42}$	

TABLE II

ENERGY BOUNDARIES, AVERAGE ENERGY, AND ENERGY AND LETHARGY  
 WIDTHS AND VELOCITY FOR THE LASL/TD 30-GROUP NEUTRON STRUCTURE

$E_{\max} = 17 \text{ MeV}$ ,  $1 \text{ Mm/s} = 1 \text{ cm/sh}$ ;  $1 \text{ Shake (sh)} = 10^{-8} \text{ sec}$

Group	$E_g$ (Low Boundary)		$\bar{E}_g$		$\Delta E$		$\Delta u_g$	$V_g$ (Mm/s)
1	15.0	MeV	15.73	MeV	2.0	MeV	0.13	54.8
2	13.5	MeV	14.07	MeV	1.5	MeV	0.11	51.9
3	12.0	MeV	12.89	MeV	1.5	MeV	0.12	49.6
4	10.0	MeV	11.01	MeV	2.0	MeV	0.18	45.9
5	7.79	MeV	8.705	MeV	2.21	MeV	0.25	40.8
6	6.07	MeV	6.789	MeV	1.72	MeV	0.25	36.1
7	3.68	MeV	4.508	MeV	2.39	MeV	0.50	29.4
8	2.865	MeV	3.219	MeV	0.815	MeV	0.25	24.8
9	2.232	MeV	2.510	MeV	0.633	MeV	0.25	21.9
10	1.738	MeV	1.962	MeV	0.494	MeV	0.25	19.3
11	1.353	MeV	1.527	MeV	0.385	MeV	0.25	17.1
12	0.823	MeV	1.055	MeV	0.530	MeV	0.50	14.2
13	0.5	MeV	0.6487	MeV	0.323	MeV	0.50	11.1
14	0.303	MeV	0.3962	MeV	0.197	MeV	0.50	8.67
15	0.184	MeV	0.2363	MeV	0.119	MeV	0.50	6.79
16	0.0676	MeV	0.1115	MeV	0.1164	MeV	1.0	4.83
17	0.0248	MeV	0.0410	MeV	0.0428	MeV	1.0	2.95
18	0.00912	MeV	0.0150	MeV	0.01568	MeV	1.0	1.81
19	0.00335	MeV	0.0055	MeV	0.00577	MeV	1.0	1.07
20	0.001235	MeV	2.034	keV	0.002115	MeV	1.0	0.643
21	454.0	eV	0.7489	keV	781.0	eV	1.0	0.390
22	167.0	eV	0.2753	keV	287.0	eV	1.0	0.237
23	61.4	eV	0.1013	keV	105.6	eV	1.0	0.144
24	22.6	eV	0.0373	keV	38.8	eV	1.0	0.087
25	8.32	eV	0.0137	keV	14.28	eV	1.0	0.053
26	3.06	eV	0.0050	keV	5.26	eV	1.0	0.032
27	1.13	eV	1.86	eV	1.93	eV	1.0	0.020
28	0.414	eV	0.6839	eV	0.716	eV	1.0	0.012
29	0.152	eV	0.2509	eV	0.262	eV	1.0	0.007
30	0.000139	eV	0.0359	eV	0.151861	eV	7.0	0.003

TABLE III  
ENERGY BOUNDARIES FOR THE LASL/TD  
12-GROUP GAMMA STRUCTURE

$E_{\max} = 10 \text{ MeV}$

Group	$E_g$ (Low Boundary) (MeV)	$\bar{E}_g$ (MeV)	$\Delta E$ (MeV)
1 (31)	9.0	9.5	1.0
2 (32)	8.0	8.5	1.0
3 (33)	7.0	7.5	1.0
4 (34)	6.0	6.5	1.0
5 (35)	5.0	5.5	1.0
6 (36)	4.0	4.5	1.0
7 (37)	3.0	3.5	1.0
8 (38)	2.0	2.5	1.0
9 (39)	1.0	1.5	1.0
10 (40)	0.5	0.75	0.5
11 (41)	0.1	0.3	0.4
12 (42)	0.01	0.055	0.09

III. BASIC DATA

A. Basic Neutron Cross-Section Data References

No.	Isotope	Source of Data
1	1-H-1	Evaluation based on work of L. Stewart et al., LA-4574 (1971).
2	1-H-2	Evaluation based on work of A. Horsley and L. Stewart, LA-3271 (1968, updated 1970).
3	1-H-3	Evaluation based on work of L. Stewart, LA-3270 (1965, updated 1970).
4	2-He-3	Evaluation based on work of L. Stewart (documentation not available).
5	2-He-4	Evaluation based on work of L. Stewart (documentation not available).
6	3-Li-6	Evaluation based on AWRE data (1965).
7	3-Li-7	Evaluation based on AWRE data (1965).
8	4-Be	Evaluation based on work of R. F. Hunter, VP-3, VP-10, and VP-12 <sup>3</sup> (1968-1970).
9	5-B-10	Evaluation based on data from LLL Howerton Library (1966).
10	5-B-11	Evaluation based on data from LLL Howerton Library (1966).
11	6-C	Evaluation based on KAPL-UK data (1965).
12	7-N	Evaluation based on work of P. G. Young and D. G. Foster, LASL, ENDF/B-II, MAT = 506 (1971).

No.	Isotope	Source of Data
13	8-O	Evaluation based on work of P. G. Young and D. G. Foster, LASL, ENDF/B-III, MAT = 1134 (1971).
14	11-Na	Evaluation based on AWRE data (1965).
15	12-Mg	Evaluation based on data from LLL Howerton Library (1965).
16	12-Al	Evaluation based on old LASL/TD-4 set (1966), and work of R. E. Hunter, VP-10 <sup>3</sup> (1970).
17	14-Si	Evaluation based on work of M. Drake, GGA, ENDF/B-II, MAT 530 (1968).
18	17-Cl	Evaluation based on data from LLL Howerton Library (1965).
19	18-A	Evaluation based on old LASL/TD-4 set (1966), and work of R. E. Hunter, VP-7 <sup>3</sup> (1969).
20	19-K	Evaluation based on data from LLL Howerton Library (1965).
21	20-Ca	Evaluation based on AWRE data (1965).
22	26-Fe	Evaluation based on old LASL/TD-4 set (1966), and work of R. E. Hunter, VP-10 <sup>3</sup> (1970).
23	29-Cu	Evaluation based on UK data (1969).
24	74-W	Evaluation based on work of R. E. Hunter, VP-6 <sup>3</sup> (1969).
25	82-Pb	Evaluation based on AWRE data (1965).
26	92-U-235	Evaluation based on work of J. J. Berlijn et al., LA-3527 and VP-6 <sup>3</sup> (1968).
27	92-U-238	Evaluation based on work of J. J. Berlijn et al., LA-3527 and VP-6 <sup>3</sup> (1968).
28	94-Pu-239	Evaluation based on work of R. E. Hunter et al., LA-3528 and VP-6 <sup>3</sup> (1968).
29	94-Pu-240	Evaluation based on work of R. E. Hunter et al., LA-3528 and VP-6 <sup>3</sup> (1968).

B. Basic Neutron-Induced Gamma-Production Cross-Section Data References

No.	Isotope	Source of Data
1	1-H-1	ENDF/B-III, MAT 1148. Thermal values adjusted by HAS/GEH.
2	1-H-2	No gamma production in current set.
3	1-H-3	No gamma production in current set.
4	2-He-3	No gamma production in current set.
5	2-He-4	No gamma production in current set.
6	3-Li-6	Old LASL/TD-4 evaluation.
7	3-Li-7	Old LASL/TD-4 evaluation. $\sigma_{g-h}$ ; g = 19-30; h = 38, adjusted by HAS/GEH.
8	4-Be	ENDF/B-III, MAT 1154, proc. by Laphan $\sigma_{30-h}$ ; h = 31-42, adjusted by HAS/GEH.

No.	Isotope	Source of Data
9	5-B-10	Young-Seamon described in memo 6/8/73.
10	5-B-11	No gamma production in current set.
11	6-C	Neutron cross sections taken from KAPL-UK evaluation (1965); gamma-ray spectra and multiplicities based on LASL/TD-4 memo of Stewart and Hiron (11/10/71).
12	7-N	ENDF/B-III, MAT 1133, proc. by LAPHAN-0, $\sigma_{30-h}$ , h = 31-42 adjusted by HAS/GEH.
13	8-N	ENDF/B-III, MAT 1134, proc. by LAPHAN.
14	11-Na	ENDF/B-II, MAT 5001, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
15	12-Mg	ENDF/B-II, MAT 5002.
16	13-Al	ENDF/B-III, MAT 1135, proc. by LAPHAN-0, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
17	14-Si	ENDF/B-II, MAT 530, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
18	17-Cl	ENDF/B-II, MAT 5004, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
19	18-A	Made up by HAS/GEH.
20	19-K	ENDF/B-II, MAT 5005, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
21	20-Ca	ENDF/B-II, MAT 540, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
22	26-Fe	ENDF/B-II, MAT 1180, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
23	29-Cu	Based on GRT work for neutron energies >0.5 MeV; at lower energies, the (n, $\gamma$ ) cross section from a UK evaluation was used in conjunction with the thermal capture spectrum reported in ORNL-4382.
24	74-W	Young (5/73) DNA MAT = 128, 129, 130, 131, $\sigma_{g-h}$ ; g = 24-30, h = 31-42, adjusted by HAS/GEH.
25	82-Pb	ENDF/B-III, MAT 1136, proc. by LAPHAN-0, $\sigma_{30-h}$ , h = 31-42, adjusted by HAS/GEH.
26	92-U-235	ENDF/B Format (Stewart and Hunter) V-III N, $\sigma_{g-h}$ ; g = 23-30, h = 31-42, adjusted by HAS/GEH.
27	92-U-238	ENDF/B Format (Stewart and Hunter) V-III N, $\sigma_{g-h}$ ; g = 20-30, h = 31-42, adjusted by HAS/GEH.
28	94-Pu-239	Based on work of Hunter and Stewart, LA-4901; available in ENDF/B format using neutron cross sections from LA-3528; local LASL MAT # = 304. $\sigma_{g-h}$ ; g = 22-30, h = 31-42, adjusted by HAS/GEH.
29	94-Pu-240	Based on work of Hunter and Stewart, LA-4901; available in ENDF/B format using neutron cross sections from LA-3528; local LASL MAT # = 305. $\sigma_{g-h}$ ; g = 24-30, h = 31-42, adjusted by HAS/GEH.

### C. Basic Gamma Cross-Section Data

All gamma transport cross sections were processed using Sandia Laboratories GAMLEG 69 (Refs. 4, 5), a version with additional features of LASL's GAMLEG code, written by K. D. Lathrop. An option in GAMLEG 69 is used to account for the annihilation radiation that results when positrons created during pair-production events are destroyed. The creation of two annihilation gammas with an energy of 0.511 MeV contributes to the gamma group-to-group transfer cross sections and is calculated in GAMLEG 69. The pair-production mechanism and hence the generation of annihilation radiation occurs, of course, only when primary gammas having energies greater than the pair-production threshold energy of 1.022012 MeV are present.

If we use a coupled neutron-gamma cross-section set in a discrete ordinate  $S_n$  calculation, we must set the second entry calculated by GAMLEG 69 equal to zero for all gamma groups. GAMLEG 69 inserts here  $\sigma_{fl,g}$  the fluorescence cross section plus  $2 \times \sigma_{pp,g}$ , i.e., two times the pair-production cross section. If erroneously these entries are left in an  $S_n$  calculation, we would create neutrons from the above interactions since the second entry in the gamma groups would be treated no differently than the  $\nu\sigma_{f,g}$  entries in the 30 neutron groups, which will distribute fission neutrons according to the  $30 \chi_g$  fission spectrum numbers.

#### ACKNOWLEDGMENTS

We would like to thank Doris Dunning for the tedious job of assembling the coupled cross-section sets with the Neutron Gamma Cross Section code NGXSEC. She also made some modifications in the code so that the data from GAMLEG69 can be read into NGXSEC properly. R. J. LaBauve has been helpful in the adjusting of neutron and gamma production cross sections.

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GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.65845E+01	.778810E+01	.943660E+01	.109031E+00	.404701E+00	.559065E+00	.754138E+00
.280384E+00	.385237E+00	.444731E+00	.518362E+00	.994371E+00	.104262E+01	.133107E+01
.109762E+00	.191931E+00	.266571E+00	.309778E+00	.597645E+00	.476880E+00	.494746E+00
.620471E+01	.755654E+01	.133546E+00	.183096E+00	.358526E+00	.285107E+00	.272730E+00
.354453E+01	.427233E+01	.522423E+01	.421645E+01	.212872E+00	.171040E+00	.135420E+00
.242546E+01	.244819E+01	.295130E+01	.360304E+01	.104617E+00	.101529E+00	.814850E+01
.194203E+01	.167347E+01	.169499E+01	.203762E+01	.416444E+01	.504827E+01	.493847E+01
.149489E+01	.135104E+01	.115724E+01	.116945E+01	.235943E+01	.199124E+01	.242403E+01
0.	.107253E+01	.441785E+02	.402716E+02	.135766E+01	.112374E+01	.464899E+02
0.	0.	.714550E+02	.846543E+02	.923424E+02	.645791E+02	.531634E+02
0.	0.	0.	.444380E+02	.747660E+02	.441937E+02	.313680E+02
0.	0.	0.	0.	.580228E+02	.357161E+02	.222509E+02
0.	0.	0.	0.	0.	.270203E+02	.174424E+02
0.	0.	0.	0.	0.	0.	.125741E+02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.889663E+00	.287618E+01	.392558E+01	.459224E+01	.492961E+01	.504032E+01	.511444E+01
.169732E+01	.331565E+01	.343911E+01	.443715E+01	.504164E+01	.530552E+01	.543054E+01
.627407E+00	.118777E+00	.740378E+00	.764348E+00	.991184E+00	.112194E+00	.119043E+01
.234159E+00	.438907E+00	.265265E+00	.164455E+00	.170642E+00	.220484E+00	.251651E+00
.107104E+00	.163878E+00	.978948E+01	.544941E+01	.344704E+01	.351037E+01	.456481E+01
.644379E+01	.749579E+01	.366426E+01	.284945E+01	.112428E+01	.851050E+02	.957495E+02
.386441E+01	.446395E+01	.160442E+01	.645962E+02	.508097E+02	.393997E+02	.314265E+02
.227405E+01	.272444E+01	.437475E+02	.368137E+02	.241724E+02	.186244E+02	.145490E+02
.113775E+01	.158444E+01	.510858E+02	.247867E+02	.134733E+02	.686061E+03	.687736E+03
.455171E+02	.762342E+02	.308246E+02	.168144E+02	.491213E+03	.494844E+03	.327194E+03
.254478E+02	.766951E+02	.180230E+02	.112446E+02	.618767E+03	.334337E+03	.182736E+03
.122564E+02	.152591E+02	.875550E+03	.660244E+03	.415603E+03	.224800E+03	.123644E+03
.753712E+03	.990223E+03	.561075E+03	.320762E+03	.242474E+03	.152341E+03	.837577E+04
.637854E+03	.736249E+03	.364103E+03	.205535E+03	.118036E+03	.840426E+04	.562546E+04
.516322E+03	.623918E+03	.270735E+03	.137191E+03	.754402E+04	.432611E+04	.328478E+04
0.	.506041E+03	.229413E+03	.441857E+04	.440044E+04	.277011E+04	.159767E+04
0.	0.	.185702E+03	.840467E+04	.384446E+04	.174925E+04	.102343E+04
0.	0.	0.	.680330E+04	.302744E+04	.133786E+04	.664402E+05
0.	0.	0.	0.	.240351E+04	.113367E+04	.494024E+05
0.	0.	0.	0.	0.	.917666E+05	.418625E+05
0.	0.	0.	0.	0.	0.	.338463E+05
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.512388E+01	.513961E+01	.513619E+01	.513455E+01	.514347E+01	.511891E+01	.515995E+01
.545807E+01	.547689E+01	.548390E+01	.548818E+01	.544154E+01	.547640E+01	.550906E+01
.121150E+01	.121937E+01	.121933E+01	.122514E+01	.122784E+01	.122414E+01	.123659E+01
.245472E+00	.274551E+00	.271914E+00	.273044E+00	.274181E+00	.273829E+00	.275822E+00
.517357E+01	.544279E+01	.554475E+01	.554640E+01	.542411E+01	.542077E+01	.548015E+01
.124631E+01	.142128E+01	.150161E+01	.153312E+01	.154433E+01	.154651E+01	.154444E+01
.351404E+02	.458573E+02	.522711E+02	.552459E+02	.564722E+02	.567123E+02	.573733E+02
.115445E+02	.129464E+02	.168491E+02	.192145E+02	.203549E+02	.207284E+02	.210444E+02
.534444E+03	.424921E+03	.475842E+03	.621114E+03	.707947E+03	.744934E+03	.746709E+03
.252728E+03	.196719E+03	.156126E+03	.175711E+03	.224418E+03	.259740E+03	.277102E+03
.122236E+03	.929847E+03	.722744E+04	.574101E+04	.644884E+04	.838111E+04	.963884E+04
.671544E+04	.442412E+04	.341644E+04	.266014E+04	.211656E+04	.238615E+04	.310924E+04
.453141E+04	.746543E+04	.162539E+04	.125747E+04	.974864E+05	.774608E+05	.877804E+05
.707745E+04	.166938E+04	.405441E+05	.544704E+05	.441877E+05	.359534E+05	.288111E+05
.206429E+04	.112444E+04	.013764E+05	.333511E+05	.220365E+05	.169953E+05	.133381E+05
.120444E+04	.760648E+05	.416032E+05	.225740E+05	.122288E+05	0.	0.
.587102E+05	.444649E+05	.279444E+05	.153166E+05	0.	0.	0.
.376231E+05	.216032E+05	.163366E+05	.102801E+05	0.	0.	0.
.244150E+05	.138439E+05	0.	0.	0.	0.	0.
.181542E+05	0.	0.	0.	0.	0.	0.
.153834E+05	0.	0.	0.	0.	0.	0.
.124523E+05	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.515034E+01	.144994E+02	.136236E+02	.169447E+02	.214456E+02	.286111E+02	.395665E+02
.548112E+01	.706853E+01	0.	.281642E+02	.351539E+02	.451011E+02	.599251E+02
.122204E+01	.157264E+01	0.	0.	.283243E+02	.354049E+02	.445174E+02
.273734E+00	.752143E+00	0.	0.	0.	.289774E+02	.364716E+02
.563344E+01	.805772E+01	0.	0.	0.	0.	.303562E+02
.155414E+01	.245151E+01	0.	0.	0.	0.	0.
.472104E+02	.902344E+02	0.	0.	0.	0.	0.
.204944E+02	.711872E+02	0.	0.	0.	0.	0.
.769271E+03	.121772E+03	0.	0.	0.	0.	0.
.412701E+03	.444244E+03	0.	0.	0.	0.	0.
.141304E+03	.162431E+03	0.	0.	0.	0.	0.
.352424E+04	.584744E+04	0.	0.	0.	0.	0.
.113774E+04	.201275E+04	0.	0.	0.	0.	0.
.321204E+05	.631312E+05	0.	0.	0.	0.	0.
.105424E+05	.164526E+05	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.582540E-02	.940826E-02	.176563E-01	.438668E-01	.754562E-01	.886848E-01	.382468E-01
.834420E-02	.123855E-01	.201576E-01	.372708E-01	.414040E-01	.415051E-02	-.990806E-02
.606749E-02	.848739E-02	.126868E-01	.205889E-01	.150363E-01	-.165939E-01	0.
.473835E-02	.642468E-02	.925420E-02	.143997E-01	.923455E-02	-.125447E-01	0.
.388307E-02	.517265E-02	.731786E-02	.111767E-01	.666340E-02	-.961954E-02	0.
.329199E-02	.434031E-02	.607749E-02	.918149E-02	.520720E-02	-.775534E-02	0.
0.	.374657E-02	.521304E-02	.781413E-02	.428993E-02	-.648547E-02	0.
0.	0.	.457404E-02	.681345E-02	.361658E-02	-.556910E-02	0.
0.	0.	0.	.604666E-02	.313538E-02	-.487807E-02	0.
0.	0.	0.	0.	.276645E-02	-.433881E-02	0.
0.	0.	0.	0.	0.	-.390654E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 8, Atomic No. = 1, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.312840E-02	.228800E-02	.674760E-02	.134848E-01	.219051E-01	.272765E-01	.924440E-01
0.	.497867E-01	.618657E-01	.892731E-01	.123407E+00	.147475E+00	.269183E+00
0.	0.	.415868E-01	.648775E-01	.682165E-01	.606462E-01	.102407E+00
0.	0.	0.	.427025E-01	.481257E-01	.307374E-01	.318887E-01
0.	0.	0.	0.	.301771E-01	.201576E-01	.967599E-02
0.	0.	0.	0.	0.	.110220E-01	.244229E-02
0.	0.	0.	0.	0.	0.	-.316334E-02
0.	0.	0.	0.	0.	0.	0.

GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.496500E-01	.587220E-01	.710810E-01	.821750E-01	.295555E+00	.487780E+00	.549538E+00
.204719E+00	.302057E+00	.351238E+00	.402368E+00	.689187E+00	.622150E+00	.779504E+00
.364749E-01	.966062E-01	.147177E+00	.170540E+00	.273145E+00	.113558E+00	.755024E-01
.716737E-02	.861688E-02	.371299E-01	.604188E-01	.858185E-01	.584872E-02	-.444860E-01
-.327098E-02	-.430827E-02	-.533338E-02	-.592191E-02	.484991E-02	-.330960E-01	-.364955E-01
-.565703E-02	-.759511E-02	-.941747E-02	-.115482E-01	-.761707E-01	-.418427E-01	-.528776E-01
-.686208E-02	-.756672E-02	-.908863E-02	-.110494E-01	-.765356E-01	-.352401E-01	-.42407E-01
-.80929E-02	-.723334E-02	-.789592E-02	-.892904E-02	-.205284E-01	-.222343E-01	-.286918E-01
0.	-.653234E-02	-.710747E-02	-.732343E-02	-.150162E-01	-.155944E-01	-.158580E-01
0.	0.	-.622642E-02	-.653004E-02	-.119074E-01	-.107545E-01	-.106691E-01
0.	0.	0.	-.553269E-02	-.103722E-01	-.824702E-02	-.712585E-02
0.	0.	0.	0.	-.857019E-02	-.709972E-02	-.533704E-02
0.	0.	0.	0.	0.	-.587049E-02	-.458069E-02
0.	0.	0.	0.	0.	0.	-.377500E-02
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.649473E+00	.197263E+01	.268754E+01	.314138E+01	.336978E+01	.345159E+01	.349529E+01
.983747E+00	.149450E+01	.111132E+01	.138898E+01	.154530E+01	.161144E+01	.164202E+01
.882851E-01	-.534031E-02	-.321377E+00	-.43527E+00	-.573662E+00	-.656404E+00	-.698340E+00
-.663979E-01	-.193216E+00	-.243023E+00	-.23526E+00	-.273827E+00	-.35635E+00	-.408336E+00
-.687817E-01	-.146743E+00	-.140748E+00	-.121345E+00	-.102579E+00	-.116199E+00	-.152095E+00
-.462261E-01	-.978479E-01	-.742461E-01	-.610419E-01	-.449170E-01	-.393842E-01	-.443094E-01
-.431544E-01	-.712521E-01	-.437310E-01	-.302302E-01	-.239135E-01	-.182331E-01	-.145433E-01
-.317115E-01	-.507612E-01	-.302264E-01	-.169444E-01	-.111868E-01	-.861890E-02	-.673289E-02
-.200119E-01	-.354384E-01	-.210254E-01	-.114711E-01	-.623527E-02	-.410053E-02	-.318268E-02
-.103752E-01	-.215475E-01	-.142681E-01	-.778190E-02	-.422117E-02	-.228555E-02	-.151419E-02
-.679863E-02	-.108999E-01	-.834136E-02	-.522718E-02	-.288382E-02	-.154724E-02	-.843976E-03
-.459482E-02	-.706331E-02	-.405249E-02	-.305590E-02	-.192342E-02	-.104966E-02	-.571358E-03
-.348567E-02	-.458457E-02	-.259716E-02	-.148485E-02	-.112452E-02	-.705071E-03	-.307606E-03
-.295424E-02	-.348971E-02	-.168574E-02	-.951444E-03	-.548329E-03	-.412196E-03	-.260359E-03
-.239191E-02	-.288969E-02	-.125374E-02	-.617578E-03	-.350131E-03	-.200258E-03	-.152210E-03
0.	-.233965E-02	-.106253E-02	-.489315E-03	-.227259E-03	-.128341E-03	-.739885E-04
0.	0.	-.880284E-03	-.388264E-03	-.169021E-03	-.833023E-04	-.473822E-04
0.	0.	0.	-.315170E-03	-.143243E-04	-.619549E-04	-.307607E-04
0.	0.	0.	0.	-.115977E-03	-.525086E-04	-.228778E-04
0.	0.	0.	0.	0.	-.425118E-04	-.193887E-04
0.	0.	0.	0.	0.	0.	-.156982E-04
0.	0.	0.	0.	0.	0.	0.

GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.350190E+01	.351239E+01	.351052E+01	.350944E+01	.351504E+01	.350016E+01	.352463E-01
.164408E+01	.165042E+01	.165272E+01	.165548E+01	.165569E+01	.165370E+01	.165948E+01
-.714546E+00	-.720337E+00	-.721668E+00	-.723008E+00	-.724021E+00	-.721547E+00	-.726209E+00
-.431795E+00	-.441166E+00	-.443657E+00	-.445104E+00	-.446760E+00	-.445610E+00	-.449009E+00
-.173333E+00	-.183439E+00	-.187017E+00	-.188390E+00	-.189219E+00	-.189183E+00	-.190795E+00
-.576751E-01	-.657720E-01	-.694847E-01	-.709474E-01	-.715267E-01	-.715674E-01	-.723570E-01
-.162822E-01	-.212212E-01	-.241662E-01	-.255575E-01	-.261335E-01	-.262446E-01	-.265505E-01
-.534433E-02	-.599118E-02	-.779720E-02	-.889417E-02	-.942051E-02	-.958899E-02	-.973633E-02
-.747419E-02	-.196641E-02	-.220130E-02	-.286969E-02	-.327614E-02	-.345657E-02	-.355733E-02
-.116956E-02	-.910363E-03	-.722508E-03	-.510171E-03	-.105704E-02	-.120208E-02	-.128234E-02
-.556427E-03	-.430334E-03	-.334489E-03	-.265913E-03	-.298474E-03	-.387850E-03	-.445954E-03
-.310134E-03	-.204740E-03	-.151111E-03	-.123106E-03	-.974421E-04	-.109498E-03	-.143886E-03
-.709959E-03	-.114120E-03	-.752200E-04	-.581924E-04	-.453457E-04	-.359391E-04	-.406218E-04
-.142435E-03	-.772574E-04	-.419234E-04	-.276887E-04	-.214312E-04	-.166383E-04	-.133329E-04
-.956749E-04	-.524109E-04	-.283015E-04	-.154344E-04	-.101914E-04	-.786502E-05	-.617254E-05
-.559331E-04	-.352049E-04	-.192548E-04	-.104488E-04	-.588425E-05	-.374155E-05	-.291778E-05
-.271741E-04	-.205814E-04	-.129330E-04	-.708847E-05	-.384814E-05	-.208527E-05	-.138743E-05
-.174157E-04	-.999909E-05	-.756084E-05	-.476137E-05	-.261055E-05	-.141167E-05	0.
-.113037E-04	-.644823E-05	-.367329E-05	-.278337E-05	-.175393E-05	0.	0.
-.840690E-05	-.415948E-05	-.235416E-05	-.135236E-05	-.102513E-05	0.	0.
-.712484E-05	-.309347E-05	-.152801E-05	0.	0.	0.	0.
-.576865E-05	-.262168E-05	-.113643E-05	0.	0.	0.	0.
0.	-.212266E-05	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.351904E+01	.598383E+01	.135730E-02	.168661E-02	.215170E-02	.283852E-02	.391316E-02
.184439E+01	.176298E+00	0.	.278117E-02	.349966E-02	.441663E-02	.582403E-02
-.725602E+00	-.147094E+01	0.	0.	.275104E-02	.340905E-02	.432466E-02
-.446822E+00	-.749667E+00	0.	0.	0.	.275261E-02	.340490E-02
-.189727E+00	-.302461E+00	0.	0.	0.	0.	.279523E-02
-.719797E-01	-.113448E+00	0.	0.	0.	0.	0.
-.264752E-01	-.417575E-01	0.	0.	0.	0.	0.
-.971539E-02	-.153588E-01	0.	0.	0.	0.	0.
-.754773E-02	-.563473E-02	0.	0.	0.	0.	0.
-.130171E-02	-.209526E-02	0.	0.	0.	0.	0.
-.469234E-03	-.753528E-03	0.	0.	0.	0.	0.
-.163184E-03	-.273666E-03	0.	0.	0.	0.	0.
-.526513E-04	-.931436E-04	0.	0.	0.	0.	0.
-.148645E-04	-.292152E-04	0.	0.	0.	0.	0.
-.687878E-05	-.761368E-05	0.	0.	0.	0.	0.
-.225868E-05	-.209165E-05	0.	0.	0.	0.	0.
-.106766E-05	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.573009E-02	.915500E-02	.167292E-01	.374206E-01	.548965E-01	.474619E-01	.579445E-01
.800277E-02	.115850E-01	.177755E-01	.263247E-01	.124825E-01	-.969383E-02	.247499E-02
.563181E-02	.756468E-02	.102645E-01	.113837E-01	-.387768E-02	-.103290E-01	0.
.429939E-02	.853034E-02	.706039E-02	.674374E-02	-.475724E-02	-.503289E-02	0.
.345829E-02	.433768E-02	.534919E-02	.463191E-02	-.447887E-02	-.312640E-02	0.
.288828E-02	.356460E-02	.429981E-02	.346174E-02	-.405990E-02	-.220914E-02	0.
0.	.302619E-02	.359444E-02	.273138E-02	-.360533E-02	-.168510E-02	0.
0.	0.	.308877E-02	.223799E-02	-.332268E-02	-.135155E-02	0.
0.	0.	0.	.188528E-02	-.303043E-02	-.112291E-02	0.
0.	0.	0.	0.	-.278126E-02	-.957495E-03	0.
0.	0.	0.	0.	0.	-.832830E-03	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 8, Atomic No. = 1, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.174840E-02	.128750E-02	.376210E-02	.743830E-02	.119622E-01	.148925E-01	.484480E-01
0.	.425519E-01	.527013E-01	.677914E-01	.835792E-01	.977144E-01	.131185E+00
0.	0.	.278716E-01	.391717E-01	.248377E-01	.971750E-02	-.144188E-01
0.	0.	0.	.186551E-01	.744434E-02	-.107309E-01	-.408078E-01
0.	0.	0.	0.	-.497848E-02	-.154795E-01	-.463848E-01
0.	0.	0.	0.	0.	-.175037E-01	-.431374E-01
0.	0.	0.	0.	0.	0.	-.376339E-01
0.	0.	0.	0.	0.	0.	0.



GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.558935E-02	.878492E-02	.154095E-01	.291952E-01	.323163E-01	.145791E-01	.458466E-02
.750617E-02	.104422E-01	.145220E-01	.137326E-01	-.837413E-02	-.119883E-01	-.430531E-03
.502407E-02	.627950E-02	.709005E-02	.174349E-02	-.115033E-01	.858287E-03	0.
.367989E-02	.430820E-02	.426993E-02	-.788088E-03	-.840058E-02	.312538E-02	0.
.286515E-02	.321175E-02	.289866E-02	-.153832E-02	-.650984E-02	.285349E-02	0.
.232935E-02	.257159E-02	.212273E-02	-.176821E-02	-.434275E-02	.245571E-02	0.
0.	.207554E-02	.163713E-02	-.181032E-02	-.449197E-02	.212262E-02	0.
0.	0.	.131080E-02	-.177754E-02	-.387034E-02	.185875E-02	0.
0.	0.	0.	-.171464E-02	-.339758E-02	.164903E-02	0.
0.	0.	0.	0.	-.302637E-02	.147988E-02	0.
0.	0.	0.	0.	0.	.134117E-02	0.
0.	0.	0.	0.	0.	0.	0.



DEUTERIUM (H<sup>2</sup>)

Neutron ID = 6, Atomic No. = 1, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
-.190691E+00 0. .683782E+00 .200957E-01 n. n. n. n. n. n.	-.180024E+00 0. .74n882E+00 .163796E-n1 .127665E+00 n. n. n. n. n. n.	-.170075E+00 0. .786208E+00 .437612E-01 .157128E+00 0. 0. 0. 0. 0. 0.	-.149548E+00 0. .88385v+.00 .814510E-01 .209965E+00 .136570E+00 .854520E-01 0. 0. 0. 0.	-.117294E+00 0. .103772E+01 .13M023E+00 .273313E+00 .134752E+00 .894093E-01 .559796E-01 0. 0. 0. 0.	-.798225E-01 0. .124130E+01 .144403E+00 .294551E+00 .112031E+00 .573802E-01 .382295E-01 .218423E-01 0. 0. 0.	-.317973E-01 0. .162928E+01 .364026E+00 .518754E+00 .189872E+00 .843323E-01 .147216E+00 .387775E+00 .393844E+00 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
-.257400E-02 0. .193987E+01 .209088E+00 .361353E+00 .869820E-01 .470587E-01 .224n87E+00 .257297E+00 .158564E-01 .141416E-n1 n. n. n. n.	.270000E-05 0. .217978E+n1 .218817E+00 .518497E+00 .18n626E+00 .65917nE-n1 .169141E+00 .138459E+00 .287144E-n1 .267725E-n1 .764807E-01 0. 0. 0. 0.	.300000E-05 0. .240390E+01 .187375E+00 .520177E+00 .259906E+00 .115328E+00 .993517E-01 .165104E+00 .439945E-01 .348979E-01 .380946E-01 .348873E-01 0. 0. 0. 0.	.270000E-05 0. .257343E+01 .186336E+00 .451720E+00 .244404E+00 .159288E+00 .100840E+00 .183246E+00 .619863E-n1 .527278E-01 .371718E-01 .187914E-01 .215344E-02 0. 0. 0.	-.500000E-09 0. .279505E+01 .352593E+00 .694726E+00 .521365E+00 .355503E+00 .267493E+00 .264848E+00 .184920E+00 .892801E-01 .230026E-01 .127522E-03 0. 0. 0.	.810000E-05 0. .296892E+01 .338223E+00 .666505E+00 .529107E+00 .450386E+00 .357901E+00 .311149E+00 .244334E+00 .325768E-01 0. 0. 0. 0.	-.400000E-05 0. .312396E+01 .392243E+00 .757050E+00 .624114E+00 .559310E+00 .485131E+00 .377814E+00 .218445E+00 .297193E-01 0. 0. 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
-.210000E-05 0. .319199E+n1 .488932E+00 .900085E+00 .697914E+00 .623584E+00 .538688E+00 .387919E+00 .651613E-01 n. n.	-.841000E-05 0. .336045E+01 .128038E+01 .177779E+n1 .137932E+n1 .113392E+n1 .528259E+00 .852663E-n1 0. 0. 0.	.246000E-05 0. .339270E+01 .140551E+01 .156913E+01 .902251E+00 .452321E+00 .418069E-01 0. 0. 0. 0.	.870000E-05 0. .341380E+01 .142542E+01 .192455E+01 .502004E+00 .230231E-01 0. 0. 0. 0.	.478000E-05 0. .342316E+01 .143179E+01 .152623E+01 .454250E+00 .894441E-02 0. 0. 0. 0.	-.478000E-05 0. .342290E+01 .142787E+01 .152555E+01 .453355E+00 .858754E-02 0. 0. 0. 0.	.473000E-05 0. .342311E+01 .143095E+01 .153040E+01 .456861E+00 .889113E-02 0. 0. 0. 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
-.240000E-06 n. .342307E+01 .143028E+n1 .152802E+01 .455854E+00 .895422E-n2 n. n.	-.145000E-05 0. .342310E+01 .143080E+01 .152885E+01 .455366E+00 .878078E-n2 0. 0. 0.	-.316000E-05 0. .342303E+01 .142959E+01 .152754E+01 .455108E+00 .876927E-n2 0. 0. 0.	-.345000E-05 0. .342302E+01 .142941E+01 .152811E+01 .455811E+00 .883474E-n2 0. 0. 0.	-.488000E-09 0. .342308E+01 .143044E+01 .152907E+01 .456486E+00 .895045E-n2 0. 0. 0.	-.279000E-05 0. .342280E+01 .142606E+01 .152485E+01 .455365E+00 .888716E-02 0. 0. 0.	-.200000E-05 0. .342331E+01 .143456E+01 .153448E+01 .458986E+00 .917845E-n2 0. 0. 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
.71n543E-14 0. .342319E+n1 .14323nE+n1 .152754E+n1 .453947E+00 .886888E-02 n. n. n.	0. 0. .34n151E+n1 .34n151E+n1 .199089E+01 .461212E+00 .831579E-02 0. 0. 0.	.313896E-02 0. .560795E-01 .136490E-02 0. 0. 0. 0. 0.	.278726E-02 0. .601512E-01 .189840E-02 .283419E-02 0. 0. 0. 0.	.241319E-02 0. .651306E-01 .217101E-02 .354345E-02 .287358E-02 0. 0. 0.	.201847E-02 0. .713614E-01 .287245E-02 .455286E-02 .360719E-02 .297172E-02 0. 0. 0.	.166652E-02 0. .794018E-01 .397854E-02 .607933E-02 .466754E-02 .377144E-02 .316105E-02 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.118349E-02 0. .9n2046E-n1 .58735nE-02 .851808E-02 .628827E-n2 .498588E-n2 .410461E-02 .350359E-02 n. n. n. n. n.	.760966E-03 0. .105587E+n0 .953689E-n2 .127977E-n1 .896934E-n2 .689694E-n2 .561875E-n2 .475597E-n2 .413454E-n2 0. 0. 0. 0. 0.	.363033E-03 0. .129567E+00 .181344E-01 .214163E-01 .139968E-01 .104603E-01 .841299E-02 .707505E-02 .612748E-02 .541765E-02 0. 0. 0. 0.	.619168E-04 0. .173912E+00 .474017E-01 .436324E-01 .262022E-01 .192045E-01 .153645E-01 .128961E-01 .111488E-01 .881519E-02 0. 0. 0. 0.	.448799E-08 0. .244621E+00 .887208E-01 .627437E-01 .321659E-01 .234246E-01 .200207E-01 .178442E-01 .185514E-01 .157683E-01 .152993E-01 .150314E-01 0. 0.	.170171E-06 0. .364903E+00 .337682E+00 .155900E+00 .638289E-01 .359976E-01 .252684E-01 .194889E-01 .158677E-01 .133826E-01 .115712E-01 .101919E-01 .910664E-02 0.	.206454E-03 0. .557751E+00 .557545E+00 .272214E-01 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 6, Atomic No. = 1, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.178311E+01	.146003E+01	.386942E-01	.715700E-01	.120184E+00	.125922E+00	.308087E+00
0.	.116567E+00	.138991E+00	.179945E+00	.222286E+00	.234156E+00	.378036E+00
0.	0.	.739386E-01	.104847E+00	.689135E-01	.648559E-01	.912532E-01
0.	0.	0.	.570912E-01	.513240E-01	.247371E-01	.221061E-01
0.	0.	0.	0.	.268138E-01	.133822E-01	.546711E-02
0.	0.	0.	0.	0.	.573251E-02	.113266E-02
0.	0.	0.	0.	0.	0.	-.785832E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.182299E+00	.190687E+00	.163140E+00	.144748E+00	.293322E+00	.279291E+00	.322814E+00
.270644E+00	.411980E+00	.411486E+00	.354430E+00	.467676E+00	.367549E+00	.406425E+00
.287712E+01	.911527E+01	.145268E+00	.157070E+00	.231850E+00	.107249E+00	.611817E-01
.449237E+02	.664550E+02	.299389E-01	.520811E-01	.777200E-01	-.631163E-02	-.132215E+00
-.297479E+02	-.599145E+02	-.814337E-02	.197145E-02	-.395328E-02	-.837555E-01	-.216438E+00
-.478704E-02	-.112774E-01	-.187154E-01	-.258745E-01	-.718089E-01	-.141173E+00	-.254420E+00
-.524119E+02	-.135101E-01	-.242749E-01	-.356713E-01	-.116293E+00	-.158267E+00	-.176576E+00
-.611217E+02	-.147838E-01	-.278146E-01	-.412986E-01	-.746265E-01	-.303352E-01	-.273158E-01
0.	-.172965E-01	-.297463E-01	-.335449E-01	-.215445E-01	0.	0.
0.	0.	-.305272E-01	-.177816E-01	-.127066E-03	0.	0.
0.	0.	0.	-.212679E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.493166E+00	.925647E+00	.103191E+01	.104885E+01	.105288E+01	.105104E+01	.105249E+01
.487820E+00	.625021E+00	.307889E+00	.348042E+00	.353904E+00	.354211E+00	.355692E+00
.674666E+01	-.136399E+00	-.435472E+00	-.276017E+00	-.242462E+00	-.241178E+00	-.242346E+00
-.211891E+00	-.579838E+00	-.340727E+00	-.214479E+01	-.829445E-02	-.791145E-02	-.818736E-02
-.364299E+00	-.396403E+00	-.390197E-01	0.	0.	0.	0.
-.254765E+00	-.794253E-01	0.	0.	0.	0.	0.
-.606351E-01	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.105218E+01	.105242E+01	.105166E+01	.105177E+01	.105225E+01	.105019E+01	.105416E+01
.354130E+00	.354388E+00	.354378E+00	.355101E+00	.354965E+00	.355393E+00	.355872E+00
-.242407E+00	-.242100E+00	-.242026E+00	-.242122E+00	-.242409E+00	-.241936E+00	-.243117E+00
-.824367E-02	-.808827E-02	-.807713E-02	-.813540E-02	-.824052E-02	-.818378E-02	-.844620E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.105312E+01	.115694E+01	.136236E-02	.169447E-02	.216456E-02	.286111E-02	.395665E-02
.351621E+00	.103404E+00	0.	.281642E-02	.351539E-02	.451011E-02	.599351E-02
-.242262E+00	-.249140E+00	0.	0.	.283243E-02	.354049E-02	.455174E-02
-.811299E-02	-.766850E-02	0.	0.	0.	.289774E-02	.364716E-02
0.	0.	0.	0.	0.	0.	.303662E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.582548E+02	.948826E+02	.176563E-01	.438688E-01	.754562E-01	.886848E-01	.382468E-01
.834420E-02	.123855E-01	.201576E-01	.372708E-01	.414040E-01	.415051E-02	-.990806E-02
.606749E-02	.848739E-02	.126888E-01	.205817E-01	.150363E-01	-.165939E-01	0.
.473835E-02	.647468E-02	.925420E-02	.143997E-01	.923455E-02	-.125447E-01	0.
.388307E-02	.517365E-02	.731786E-02	.111767E-01	.666340E-02	-.961954E-02	0.
.329199E-02	.434031E-02	.607749E-02	.918139E-02	.520720E-02	-.775534E-02	0.
0.	.374657E-02	.521304E-02	.781413E-02	.426993E-02	-.648542E-02	0.
0.	0.	.457404E-02	.681345E-02	.361658E-02	-.556910E-02	0.
0.	0.	0.	.604666E-02	.313538E-02	-.487807E-02	0.
0.	0.	0.	0.	.278645E-02	-.433883E-02	0.
0.	0.	0.	0.	0.	-.390654E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 6, Atomic No. = 1, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.134810E+01	.111394E+01	.291382E-01	.530700E-01	.875500E-01	.919540E-01	.211942E+00
0.	.961893E-01	.113018E+00	.127527E+00	.137440E+00	.135990E+00	.170012E+00
0.	0.	.435174E-01	.530276E-01	.217130E-01	.140266E-02	-.232309E-01
0.	0.	0.	.149045E-01	.194796E-03	-.122600E-01	-.311636E-01
0.	0.	0.	0.	-.831337E-02	-.118456E-01	-.203717E-01
0.	0.	0.	0.	0.	-.851990E+02	-.130865E-01
0.	0.	0.	0.	0.	0.	-.576107E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.133689E+00	.139072E+00	.118846E+00	.105262E+00	.194732E+00	.182470E+00	.209344E+00
.133351E+00	.241758E+00	.235398E+00	.197756E+00	.148892E+00	.511693E-02	-.138182E-01
-.280989E-01	-.163983E-01	-.448904E-02	-.049417E-02	-.496640E-01	-.215937E+00	-.273046E+00
-.223980E-01	-.311635E-01	-.426911E-01	-.521277E-01	-.141288E+00	-.211756E+00	-.215994E+00
-.137668E-01	-.214623E-01	-.310908E-01	-.474614E-01	-.125693E+00	-.138862E+00	-.798269E-01
-.777944E-02	-.111800E-01	-.161364E-01	-.234777E-01	-.677114E-01	-.494429E-01	.805357E-01
-.522353E-02	-.459394E-02	-.145568E-02	.634705E-03	.390463E-01	.677032E-01	.115827E+00
-.299869E-02	-.049225E-03	.948759E-02	.227545E-01	.504302E-01	.263098E-01	.237051E-01
0.	.393106E-02	.161035E-01	.270722E-01	.148906E-01	0.	0.
0.	0.	.229063E-01	.158444E-01	.128129E-03	0.	0.
0.	0.	0.	.206304E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.262551E+00	.449820E+00	.522097E+00	.533192E+00	.534760E+00	.535031E+00	.534826E+00
-.498512E-02	-.344981E+00	-.389030E+00	-.355569E+00	-.355069E+00	-.355167E+00	-.356259E+00
-.305438E+00	-.499997E+00	-.451374E-01	.296677E-01	.155988E+01	.140668E-01	.133376E-01
-.173747E+00	-.933328E-02	.175694E+00	.189974E-01	.745053E-02	.712433E-02	.735226E-02
.117887E+00	.201893E+00	.342890E-01	0.	0.	0.	0.
.166702E+00	.490077E-01	0.	0.	0.	0.	0.
.525530E-01	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.534879E+00	.534839E+00	.534933E+00	.534947E+00	.534867E+00	.535167E+00	.534534E+00
-.355813E+00	-.355998E+00	-.355663E+00	-.355730E+00	-.355993E+00	-.354854E+00	-.357288E+00
.140737E-01	.140040E-01	.140507E-01	.137008E-01	.138497E-01	.136769E-01	.129454E-01
.739779E-02	.727425E-02	.726382E-02	.731100E-02	.739574E-02	.735057E-02	.756191E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.534719E+00	.222689E+00	.135730E+02	.168601E+02	.215170E+02	.283852E+02	.391316E+02
-.355948E+00	-.334362E+00	0.	.278117E+02	.345966E+02	.441663E+02	.582403E+02
.151492E-01	.218964E-01	0.	0.	.275104E+02	.340905E+02	.432466E+02
.729303E-02	.493463E-02	0.	0.	0.	.275261E+02	.340490E+02
0.	0.	0.	0.	0.	0.	.279523E+02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.573009E-02	.915500E-02	.167292E-01	.374286E-01	.548965E-01	.474619E-01	.579445E-01
.880277E-02	.115850E-01	.177755E-01	.283247E-01	.123825E-01	-.969383E-02	.247499E-02
.563818E-02	.756468E-02	.102645E-01	.113837E-01	-.397768E-02	-.103290E-01	0.
.429939E-02	.553034E-02	.786039E-02	.674356E-02	-.475724E-02	-.503289E-02	0.
.345829E-02	.433768E-02	.534919E-02	.463197E-02	-.447887E-02	-.312660E-02	0.
.288829E-02	.356460E-02	.429981E-02	.346174E-02	-.405990E-02	-.220915E-02	0.
0.	.302619E-02	.359444E-02	.273138E-02	-.366533E-02	-.168510E-02	0.
0.	0.	.308877E-02	.223744E-02	-.332288E-02	-.135155E-02	0.
0.	0.	0.	.188528E-02	-.303043E-02	-.112291E-02	0.
0.	0.	0.	0.	-.278126E-02	-.957495E-03	0.
0.	0.	0.	0.	0.	-.832830E-03	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 6, Atomic No. = 1, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.738390E-02	.618470E-02	.158630E-01	.282350E-01	.453600E-01	.478260E-01	.100964E+00
0.	.793438E-01	.655620E-01	.655620E-01	.453630E-01	.346934E-01	.780713E-02
0.	.697843E-01	.979151E-02	-.589726E-03	-.330275E-01	-.397844E-01	-.704452E-01
0.	0.	0.	-.205303E-01	-.328906E-01	-.246849E-01	-.264703E-01
0.	0.	0.	0.	-.238687E-01	-.155558E-01	-.737820E-02
0.	0.	0.	0.	0.	-.742649E-02	-.159897E-02
0.	0.	0.	0.	0.	0.	.102492E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.691860E-01	.721840E-01	.615560E-01	.543930E-01	.879658E-01	.798322E-01	.903816E-01
.969115E-02	.653596E-01	.549100E-01	.391362E-01	-.913804E-01	-.177154E+00	-.216120E+00
-.335378E-01	-.668701E-01	-.954925E-01	-.105949E+00	-.197164E+00	-.133605E+00	-.757211E-01
-.636430E-02	-.941110E-02	-.358770E-01	-.611039E-01	-.959032E-01	.856819E-02	.160012E+00
.424604E-02	.837241E-02	.114748E-01	-.285751E-02	.436389E-02	.101684E+00	.182566E-00
.627617E-02	.133644E-01	.211338E-01	.296046E-01	.722314E-01	.117170E+00	.511793E-01
.625704E-02	.122555E-01	.167828E-01	.215740E-01	.205912E-01	.638896E-02	-.518833E-01
.608840E-02	.103800E-01	.671377E-02	-.371842E-02	-.245282E-01	-.211360E-01	-.191174E-01
0.	.676312E-02	-.192724E-02	-.190545E-01	-.154583E-01	0.	0.
0.	0.	-.138675E-01	-.133731E-01	-.135961E-03	0.	0.
0.	0.	0.	-.199721E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.114179E+00	.112318E+00	.144860E+00	.149538E+00	.149644E+00	.150401E+00	.149811E+00
-.252959E+00	-.376188E+00	-.160541E+00	-.183626E+00	-.187696E+00	-.188057E+00	-.188905E+00
-.835053E-01	.108380E+00	.177983E+00	.652511E-01	.651953E-01	.663577E-01	.669995E-01
.205082E+00	.204427E+00	-.335986E-01	-.158580E-01	-.638698E-02	-.606565E-02	-.623232E-02
.699947E-01	-.356478E-01	-.283422E-01	0.	0.	0.	0.
-.743674E-01	-.556298E-01	0.	0.	0.	0.	0.
-.421604E-01	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.149946E+00	.149843E+00	.150084E+00	.150121E+00	.149915E+00	.150763E+00	.149083E+00
-.187923E+00	-.188068E+00	-.188104E+00	-.188504E+00	-.188447E+00	-.188871E+00	-.188890E+00
.667471E-01	.665561E-01	.665631E-01	.667907E-01	.669140E-01	.668930E-01	.673927E-01
-.626467E-02	-.618010E-02	-.617067E-02	-.620491E-02	-.628391E-02	-.623290E-02	-.638150E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.149541E+00	.105023E-01	.134973E-02	.167488E-02	.213251E-02	.280490E-02	.388859E-02
-.186267E+00	-.127191E+00	0.	.272877E-02	.337705E-02	.427854E-02	.557512E-02
.660225E-01	.596590E-01	0.	0.	.263126E-02	.321666E-02	.399516E-02
-.619168E-02	-.593948E-02	0.	0.	0.	.254186E-02	.305691E-02
0.	0.	0.	0.	0.	0.	.245133E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.558935E-02	.878492E-02	.154095E-01	.291952E-01	.323163E-01	.145791E-01	.458466E-02
.750617E-02	.104427E-01	.145220E-01	.137326E-01	-.837413E-02	-.119883E-01	-.430531E-03
.592407E-02	.627950E-02	.709005E-02	.174349E-02	-.115033E-01	.858287E-03	0.
.367989E-02	.430820E-02	.426993E-02	.788088E-03	-.848058E-02	.312538E-02	0.
.286515E-02	.321175E-02	.289866E-02	-.153832E-02	-.656984E-02	.285349E-02	0.
.232935E-02	.253159E-02	.212273E-02	-.176821E-02	-.534275E-02	.245571E-02	0.
0.	.287554E-02	.163713E-02	-.181030E-02	-.444147E-02	.212267E-02	0.
0.	0.	.131080E-02	-.177754E-02	-.387039E-02	.185875E-02	0.
0.	0.	0.	-.171464E-02	-.334758E-02	.164903E-02	0.
0.	0.	0.	0.	-.302637E-02	.147988E-02	0.
0.	0.	0.	0.	0.	.134117E-02	0.
0.	0.	0.	0.	0.	0.	0.

TRITIUM (H<sup>3</sup>)

Neutron ID = 7, Atomic No. = 1, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
-.456613E-01 n. .743632E+00 .417352E-01 n. n. n. n. n. n. n.	-.496582E-01 0. .816506E+00 .363843E-01 .188911E+00 0. 0. 0. 0. 0. 0. 0.	-.516804E-01 0. .879863E+00 .967270E-01 .234541E+00 .134456E+00 0. 0. 0. 0. 0. 0.	-.502104E-01 0. .105602E+01 .145539E+00 .318852E+00 .197547E+00 .124177E+00 0. 0. 0. 0. 0. 0.	-.186191E-01 0. .134291E+01 .341670E+00 .429575E+00 .177394E+00 .115667E+00 .703562E-01 0. 0. 0. 0.	-.290000E-05 0. .165940E+01 .394541E+00 .497100E+00 .129991E+00 .591075E-01 .398629E-01 .265533E-01 0. 0. 0.	.200000E-05 0. .214230E+01 .789222E+00 .814699E+00 .213043E+00 .123826E+00 .116996E+00 .122977E+00 .111848E+00 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
-.600000E-06 n. .725625E+01 .374434E+00 .491959E+00 .938899E-01 .106743E+00 .110803E+00 .591549E-01 .199192E-01 .247222E-01 n. n. n.	.200000E-05 0. .215594E+01 .259867E+00 .539896E+00 .183892E+00 .139026E+00 .138181E+00 .261379E-01 0. .781596E-01 .665346E-01 0.	-.360000E-05 0. .200975E+01 .180385E+00 .401386E+00 .238112E+00 .181835E+00 .179016E+00 .275205E-01 0. .959560E-01 .211065E-01 0.	-.142104E-13 0. .187261E+01 .137243E+00 .314326E+00 .257051E+00 .259744E+00 .248651E+00 .382300E-01 0. .636652E-01 .736844E-02 0.	-.400000E-05 0. .173534E+01 .752554E+00 .547617E+00 .601870E+00 .726181E+00 .759497E+00 .246760E+00 0. .298330E-01 .387617E-01 0.	-.100000E-05 0. .155324E+01 .255291E+00 .584874E+00 .743067E+00 .834379E+00 .511453E+00 .845656E-01 0. 0. 0. 0.	-.100000E-05 0. .142940E+01 .280744E+00 .573904E+00 .691939E+00 .444634E+00 .787926E-01 0. 0. 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
-.420000E-05 n. .134654E+01 .324334E+00 .556364E+00 .569131E+00 .205978E+00 n.	.130000E-05 0. .130804E+01 .840619E+00 .930789E+00 .583291E+00 .154919E+00 0.	-.400000E-06 0. .130058E+01 .639490E+00 .632219E+00 .914252E-01 0. 0.	.100000E-06 0. .130066E+01 .638477E+00 .624332E+00 .352017E-01 0. 0.	.300000E-06 0. .130042E+01 .638958E+00 .625509E+00 .367584E-01 0. 0.	-.300000E-06 0. .130075E+01 .637425E+00 .624351E+00 .368129E-01 0. 0.	-.300000E-06 0. .130065E+01 .638628E+00 .626457E+00 .373107E-01 0. 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.700000E-06 n. .130067E+01 .638362E+00 .625133E+00 .368633E-01 n.	.900000E-06 0. .130065E+01 .638566E+00 .625494E+00 .368863E-01 n.	-.100000E-06 0. .130069E+01 .638091E+00 .625062E+00 .368113E-01 0.	-.100000E-06 0. .130070E+01 .638014E+00 .625500E+00 .370231E-01 0.	.400000E-06 0. .130066E+01 .638424E+00 .625769E+00 .371001E-01 0.	.700000E-06 0. .130080E+01 .636707E+00 .624533E+00 .369101E-01 0.	-.900000E-06 0. .130053E+01 .640058E+00 .627858E+00 .377066E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
-.355271E-14 n. .130060E+01 .639160E+00 .624094E+00 .362383E-01 n. n. n. n.	0. 0. .129989E+01 .129989E+01 .661444E+00 .363806E-01 0. 0. 0.	.313896E-02 0. .560755E-01 .138490E-02 0. 0. 0. 0.	.278726E-02 0. .601512E-01 .169840E-02 .283435E-02 0. 0. 0.	.241319E-02 0. .651306E-01 .217101E-02 .354345E-02 .287358E-02 0. 0.	.201847E-02 0. .713616E-01 .287245E-02 .455724E-02 .360719E-02 .297172E-02 0. 0.	.160652E-02 0. .794010E-01 .397854E-02 .607933E-02 .486754E-02 .371444E-02 .316105E-02 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.118349E-02 n. .902946E-01 .587350E-02 .851808E-02 .628827E-02 .496588E-02 .410461E-02 .350359E-02 n. n. n. n. n.	.760966E-03 0. .105587E+00 .953689E-02 .127977E-01 .896934E-02 .689694E-02 .561875E-02 .475547E-02 .413454E-02 0. 0. 0. 0.	.363033E-03 0. .129567E+00 .181344E-01 .214163E-01 .139968E-01 .104603E-01 .841299E-02 .707505E-02 .612748E-02 .541763E-02 0. 0. 0.	.019108E-04 0. .173912E+00 .474017E-01 .436344E-01 .262022E-01 .192045E-01 .153645E-01 .128981E-01 .111488E-01 .983874E-02 .881514E-02 0. 0.	.448799E-08 0. .244621E+00 .867208E-01 .627437E-01 .321659E-01 .239246E-01 .200207E-01 .178442E-01 .165514E-01 .157683E-01 .152993E-01 .150314E-01 0.	.170171E-06 0. .364903E+00 .337692E+00 .155900E+00 .638299E-01 .359976E-01 .252644E-01 .194899E-01 .158677E-01 .133826E-01 .115712E-01 .101919E-01 .910664E-02 0.	.206454E-03 0. .557751E+00 .557545E+00 .272214E-01 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 7, Atomic No. = 1, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.366802E-01	.322173E-01	.848410E-01	.160830E+00	.292016E+00	.337920E+00	.646024E+00
n.	.144276E+00	.202137E+00	.251179E+00	.313981E+00	.353831E+00	.526252E+00
0.	0.	.946006E-01	.128289E+00	.865313E-01	.480847E-01	.428453E-01
0.	0.	0.	.613855E-01	.411234E-01	.761510E-02	-.301998E-01
0.	0.	0.	0.	.146760E-01	-.285601E-03	-.595376E-01
0.	0.	0.	0.	0.	-.466446E-02	-.795826E-01
0.	0.	0.	0.	0.	0.	-.833940E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.319852E+00	.221818E+00	.153776E+00	.116670E+00	.192786E+00	.193153E+00	.213737E+00
.322968E+00	.377889E+00	.274837E+00	.210147E+00	.248053E+00	.145380E+00	.146644E+00
-.688287E-02	.415477E-01	.735036E-01	.728811E-01	.448183E-01	-.203228E+00	-.295174E+00
-.489562E-01	-.619695E-01	-.403204E-01	-.203881E-01	-.205979E+00	-.498719E+00	-.351360E+00
-.844394E-01	-.107929E+00	-.137616E+00	-.138197E+00	-.459346E+00	-.404220E+00	-.732554E-01
-.531302E-01	-.244131E-01	-.256285E-01	-.355967E-01	-.198241E+00	-.786297E-01	0.
-.191241E-01	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.249381E+00	.368484E+00	.376309E+00	.376258E+00	.376282E+00	.376205E+00	.376266E+00
.157335E+00	.114332E-01	-.703380E-01	-.575428E-01	-.575022E-01	-.570827E-01	-.571785E-01
-.238951E+00	-.284959E+00	-.735545E-01	-.281071E-01	-.292998E-01	-.292082E-01	-.296907E-01
-.166494E+00	-.125000E+00	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.376252E+00	.376263E+00	.376239E+00	.376235E+00	.376256E+00	.376167E+00	.376337E+00
-.573323E-01	-.573475E-01	-.572283E-01	-.571077E-01	-.572244E-01	-.567329E-01	-.575132E-01
-.293922E-01	-.293979E-01	-.293478E-01	-.294938E-01	-.295518E-01	-.294197E-01	-.299705E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.376293E+00	.305401E+00	.136236E-02	.169447E-02	.218456E-02	.286111E-02	.395665E-02
-.578835E-01	-.867998E-01	0.	.281642E-02	.351539E-02	.451011E-02	.599351E-02
-.289610E-01	-.290324E-01	0.	0.	.283243E-02	.354049E-02	.455174E-02
0.	0.	0.	0.	0.	.289774E-02	.364716E-02
0.	0.	0.	0.	0.	0.	.303662E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.582540E-02	.946826E-02	.176563E-01	.438668E-01	.759562E-01	.886848E-01	.382468E-01
.834420E-02	.123855E-01	.201576E-01	.372708E-01	.414040E-01	.415051E-02	-.998806E-02
.606749E-02	.848739E-02	.126888E-01	.205899E-01	.150383E-01	-.165939E-01	0.
.473835E-02	.642468E-02	.925420E-02	.143947E-01	.923455E-02	-.125447E-01	0.
.388307E-02	.617365E-02	.731786E-02	.111767E-01	.466340E-02	-.961954E-02	0.
.329199E-02	.434031E-02	.607749E-02	.918134E-02	.520720E-02	-.775534E-02	0.
0.	.374657E-02	.521304E-02	.781413E-02	.426943E-02	-.648522E-02	0.
0.	0.	.457404E-02	.681345E-02	.361650E-02	-.556910E-02	0.
0.	0.	0.	.604668E-02	.313538E-02	-.487807E-02	0.
0.	0.	0.	0.	.276645E-02	-.433883E-02	0.
0.	0.	0.	0.	0.	-.390654E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 7, Atomic No. = 1, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.272961E+01	.243273E-01	.627250E-01	.116052E+00	.204849E+00	.238073E+00	.416049E+00
0.	.121069E+00	.145233E+00	.141443E+00	.139999E+00	.144337E+00	.153916E+00
0.	0.	.335814E-01	.281371E-01	-.219973E-01	-.259497E-01	-.734336E-01
0.	0.	0.	-.151110E-01	-.349505E-01	-.269429E-01	-.407806E-01
0.	0.	0.	0.	-.293540E-01	-.192479E-01	-.523691E-02
0.	0.	0.	0.	0.	-.114769E-01	-.232190E-01
0.	0.	0.	0.	0.	0.	.425365E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.224121E+00	.155187E+00	.107300E+00	.408754E-01	.106097E+00	.103910E+00	.116853E+00
.994955E-01	.143545E+00	.948229E-01	.643271E-01	-.582285E-01	-.165073E+00	-.159540E+00
-.429147E-01	-.627969E-01	-.770871E-01	-.889134E-01	-.248162E+00	-.230631E+00	-.775465E-01
-.163143E-01	-.237138E-01	-.629943E-01	-.119269E+00	-.220361E+00	.876636E-01	.206213E+00
.436749E-01	.597524E-01	.735372E-01	.748337E-02	.888897E-01	.237470E+00	.631055E-01
.424494E-01	.212821E-01	.222180E-01	.308413E-01	.122376E+00	.677708E-01	0.
.176354E-01	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.139677E+00	.964691E-01	.107383E+00	.107780E+00	.107591E+00	.108196E+00	.107721E+00
-.139970E+00	-.181659E+00	-.903489E-01	-.450779E-01	-.953742E-01	-.954028E-01	-.957914E-01
-.682869E-01	-.762487E-02	.456413E-01	.171137E-01	.177454E-01	.177450E-01	.179241E-01
.104539E+00	.781351E-01	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.107825E+00	.107746E+00	.107934E+00	.107962E+00	.107802E+00	.108480E+00	.107159E+00
-.953984E-01	-.954660E-01	-.954557E-01	-.956343E-01	-.959073E-01	-.956842E-01	-.958586E-01
.178324E-01	.178164E-01	.178010E-01	.178544E-01	.178840E-01	.178341E-01	.180383E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.107512E+00	.379483E-01	.135730E-02	.168661E-02	.215170E-02	.283852E-02	.391316E-02
-.947879E-01	-.774156E-01	0.	.278117E-02	.345966E-02	.441663E-02	.582403E-02
.176746E-01	.176529E-01	0.	0.	.275104E-02	.340905E-02	.432466E-02
0.	0.	0.	0.	0.	.275261E-02	.340490E-02
0.	0.	0.	0.	0.	0.	.279523E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.573009E-02	.915500E-02	.107292E-01	.374286E-01	.548965E-01	.474619E-01	.579445E-01
.800277E-02	.115850E-01	.177755E-01	.263297E-01	.123825E-01	-.969387E-02	.247499E-02
.563818E-02	.756468E-02	.102645E-01	.113837E-01	-.387768E-02	-.103290E-01	0.
.429939E-02	.553034E-02	.706039E-02	.674356E-02	-.475724E-02	-.503289E-02	0.
.345829E-02	.433768E-02	.534919E-02	.463197E-02	-.447887E-02	-.312600E-02	0.
.288828E-02	.356460E-02	.429981E-02	.346174E-02	-.405990E-02	-.220915E-02	0.
0.	.302619E-02	.359444E-02	.273138E-02	-.366533E-02	-.168510E-02	0.
0.	0.	.308877E-02	.223749E-02	-.332268E-02	-.135155E-02	0.
0.	0.	0.	.188528E-02	-.303043E-02	-.112291E-02	0.
0.	0.	0.	0.	-.278120E-02	-.957495E-03	0.
0.	0.	0.	0.	0.	-.832830E-03	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 7, Atomic No. = 1, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.146625E+01	.132992E-n1	.332200E-01	.592730E-01	.100306E+00	.117359E+00	.179779E+00
0.	.495073E-01	.772548E-01	.290814E-01	-.137866E-01	-.298717E-01	-.866939E-01
0.	0.	-.214445E-01	-.509185E-01	-.702238E-01	-.501679E-01	-.433415E-01
0.	0.	0.	-.510188E-01	-.455016E-01	-.104218E-01	.292627E-01
0.	0.	0.	0.	-.192112E-01	.372009E-03	.320016E-01
0.	0.	0.	0.	0.	.611964E-02	.130300E-01
0.	0.	0.	0.	0.	0.	-.944068E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.109542E+00	.756650E-n1	.521016E-01	.388616E-01	.341823E-01	.316774E-01	.370760E-01
-.524038E-01	-.464286E-n1	-.454828E-01	-.448549E-01	-.137381E+00	-.101641E+00	-.103297E+00
.903613E-n2	-.632207E-01	-.807738E-01	-.825184E-01	-.462345E-01	.189557E+00	.142707E+00
.399569E-n1	.624803E-01	.385180E-01	.270484E-01	.191134E+00	.133002E+00	-.680429E-01
-.554883E-n2	-.142866E-n1	-.133891E-01	.538903E-01	.115341E+00	-.788191E-01	-.500497E-01
-.293680E-01	-.171957E-01	-.177852E-01	-.248545E-01	-.491801E-01	-.537577E-01	0.
.155816E-01	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.467577E-01	-.309364E-n2	.164641E-02	.175744E-02	.170429E-02	.187562E-02	.174068E-02
-.103318E+00	-.748416E-01	.820642E-02	.554220E-02	.554237E-02	.550548E-02	.551803E-02
.117250E+00	.711988E-n1	-.186922E-01	-.659107E-02	-.676327E-02	-.679281E-02	-.674175E-02
-.443914E-n1	-.327574E-01	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.177007E-02	.174748E-02	.180049E-02	.180868E-02	.176329E-02	.195791E-02	.158534E-02
.552804E-02	.553008E-02	.551953E-02	.551079E-02	.552122E-02	.547779E-02	.554447E-02
-.680089E-02	-.477400E-02	-.678396E-02	-.676732E-02	-.677293E-02	-.678560E-02	-.672983E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.168224E-02	.830258E-03	.134973E-02	.167488E-02	.213251E-02	.280490E-02	.384859E-02
.556727E-02	-.123044E-02	0.	-.272877E-02	.337703E-02	.427854E-02	.557512E-02
-.685051E-02	-.677260E-n2	0.	0.	.263126E-02	.321666E-02	.399516E-02
0.	0.	0.	0.	0.	.254186E-02	.305691E-02
0.	0.	0.	0.	0.	0.	.245133E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.558935E-02	.878492E-02	.154045E-01	.291952E-01	.323163E-01	.145791E-01	.458466E-02
.750617E-02	.104422E-01	.145220E-01	.137326E-01	-.837413E-02	-.119883E-01	-.430531E-03
.502407E-02	.627950E-n2	.709005E-02	.174374E-02	-.115033E-01	.850287E-03	0.
.367989E-02	.430820E-02	.426943E-02	-.788004E-03	-.840058E-02	.312538E-02	0.
.786515E-n2	.321175E-n2	.289866E-02	-.153842E-02	-.650984E-02	.285349E-02	0.
.732935E-02	.253159E-n2	.212273E-02	-.176821E-02	-.534275E-02	.245571E-02	0.
0.	.207554E-n2	.163713E-02	-.181042E-02	-.449197E-02	.212762E-02	0.
0.	0.	.131080E-02	-.177754E-02	-.387034E-02	.185875E-02	0.
0.	0.	0.	-.171404E-02	-.337758E-02	.164903E-02	0.
0.	0.	0.	0.	-.302637E-02	.147988E-02	0.
0.	0.	0.	0.	0.	.134117E-02	0.
0.	0.	0.	0.	0.	0.	0.



HELIUM (He<sup>3</sup>)

Neutron ID = 9, Atomic No. = 2, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.223156E+00	.234220E+00	.244699E+00	.260606E+00	.285421E+00	.331549E+00	.424592E+00
0.	0.	0.	0.	0.	0.	0.
.964606E+00	.103413E+01	.108227E+01	.122722E+01	.149939E+01	.174529E+01	.228435E+01
.A20450E-01	.690290E-01	.166341E+00	.27626VE+00	.416450E+00	.428524E+00	.788495E+00
0.	.333026E+00	.385074E+00	.43357VE+00	.4A1735E+00	.491771E+00	.71740AE+00
0.	0.	.166720E+00	.212105E+00	.143170E+00	.970965E-01	.155253E+00
0.	0.	0.	.951112E-01	.753486E-01	.367944E-01	.641A9AE-01
0.	0.	0.	0.	.361907E-01	.214916E-01	.409633E-01
0.	0.	0.	0.	0.	.975001E+02	.321277E-01
0.	0.	0.	0.	0.	0.	.186066E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.576514E+00	.693292E+00	.795420E+00	.834570E+00	.A47925E+00	.867887E+00	.967585E+00
0.	0.	0.	0.	0.	0.	0.
.269618E+01	.264810E+01	.29300VE+01	.290035E+01	.2A3606E+01	.272A40E+01	.291A50E+01
.470074E+00	.416889E+00	.357095E+00	.293772E+00	.444785E+00	.438717E+00	.497996E+00
.49A268E+00	.694996E+00	.618902E+00	.543334E+00	.762484E+00	.689364E+00	.723412E+00
.A2A18E-n1	.151434E+00	.235051E+00	.259450E+00	.549783E+00	.645361E+00	.661537E+00
.455279E-01	.761358E-n1	.118481E+00	.184274E+00	.513480E+00	.624875E+00	.364165E+00
.380707E-n1	.531159E-n1	.899339E-01	.151962E+00	.482623E+00	.345445E+00	.595780E-01
.147220E-n1	.927527E-r2	.111539E-01	.14500VE-01	.151120E+00	.526907E-01	0.
.473305E-02	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.115680E+01	.178799E+01	.335555E+01	.629446E+01	.109196E+02	.180901E+02	.299680E+02
0.	0.	0.	0.	0.	0.	0.
.324795E+01	.386457E+01	.540646E+01	.A34550E+01	.129706E+02	.201413E+02	.320190E+02
.573754E+00	.103366E+01	.100842E+01	.100693E+01	.100759E+01	.100516E+01	.100707E+01
.787A81E+00	.139253E+01	.987366E+00	.984525E+00	.986476E+00	.984556E+00	.987A77E+00
.995797E+00	.865441E+00	.124863E+00	.555524E-01	.579612E-01	.577350E-01	.588353E-01
.192449E+00	.140457E+00	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.496686E+02	.823192E+02	.136406E+03	.225961E+03	.374396E+03	.6197A2E+03	.102729E+04
0.	0.	0.	0.	0.	0.	0.
.517197E+02	.843702E+02	.138457E+03	.228012E+03	.376447E+03	.621833E+03	.102934E+04
.100644E+01	.108697E+01	.100622E+01	.100610E+01	.100674E+01	.100404E+01	.100932E+01
.995797E+00	.986356E+00	.985677E+00	.986368E+00	.986792E+00	.984843E+00	.990086E+00
.581297E-01	.581661E-01	.580478E-01	.583818E-01	.5A9031E-01	.582035E-01	.594596E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
.176482E+04	.472300E+04	.103950E-01	.940316E-02	.831695E-02	.712474E-02	.581751E-02
0.	0.	0.	0.	0.	0.	0.
.170687E+04	.472510E+04	.116268E+00	.124141E+00	.133752E+00	.145A10E+00	.161406E+00
.108790E+01	.204976E-n1	.272979E-02	.339641E-02	.434203E-02	.574491E-02	.79570AE-02
.984150E+00	.104305E+01	0.	.566830E-02	.708689E-02	.911456E-02	.11587E-01
.571441E+01	.573885E-01	0.	0.	.574717E-02	.721437E-02	.93358AE-02
0.	0.	0.	0.	0.	.594344E+02	.75478AE-02
0.	0.	0.	0.	0.	0.	.632211E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.439991E-n2	.289907E-02	.140546E-02	.242175E-03	.274141E-00	.106803E-04	.114121E-01
0.	0.	0.	0.	0.	0.	0.
.1A2442E+00	.212552E+00	.259814E+00	.347943E+00	.489243E+00	.729817E+00	.112450E+01
.117470E-01	.190738E-01	.362689E-01	.448045E-01	.177442E+00	.675363E+00	.111509E+01
.170362E-01	.255955E-01	.42A327E-01	.87264VE-01	.125724E+00	.311801E+00	.54442AE-01
.125765E-n1	.179387E-n1	.279937E-01	.524043E-01	.A5690AE-01	.12765AE+00	0.
.993175E-n2	.137939E-01	.209206E-01	.384140E-01	.580035E-01	.719952E-01	0.
.A20922E-n2	.112375E-n1	.168260E-01	.307386E-01	.441073E-01	.505167E-01	0.
.700717E-02	.951194E-n2	.141501E-01	.257911E-01	.408973E-01	.389797E-01	0.
0.	.A26908E-02	.122550E-01	.222975E-01	.392774E-01	.317354E-01	0.
0.	0.	.108353E-01	.146775E-01	.7A5178E-01	.267652E-01	0.
0.	0.	0.	.176304E-01	.382598E-01	.231423E-01	0.
0.	0.	0.	0.	.3A2970E-01	.203A39E-01	0.
0.	0.	0.	0.	0.	.182133E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 9, Atomic No. = 2, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.722700E-01	.412280E-01	.146069E+00	.239932E+00	.357271E+00	.367946E+00	.649992E+00
0.	.291971E+00	.334033E+00	.348053E+00	.362976E+00	.360447E+00	.493717E+00
0.	0.	.119165E+00	.140600E+00	.723585E-01	.366251E-01	.358591E-01
0.	0.	0.	.485946E-01	.276231E-01	.489243E-02	-.117366E-01
0.	0.	0.	0.	.788205E-02	-.190318E-04	-.186901E-01
0.	0.	0.	0.	0.	-.138447E-02	-.196566E-01
0.	0.	0.	0.	0.	0.	-.136846E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.402378E+00	.356564E+00	.305227E+00	.250473E+00	.348719E+00	.340652E+00	.386098E+00
.338490E+00	.497446E+00	.436688E+00	.378015E+00	.395766E+00	.209395E+00	.224547E+00
-.359206E-02	.349604E-01	.782307E-01	.808625E-01	.640167E-01	-.167806E+00	-.272493E+00
-.201147E-01	-.326228E-01	-.249159E-01	-.125724E-01	-.138064E+00	-.370074E+00	-.286761E+00
-.288351E-01	-.417123E-01	-.687918E-01	-.835984E-01	-.290308E+00	-.272305E+00	-.553367E-01
-.149548E-01	-.862099E-02	-.103442E-01	-.181006E-01	-.121230E+00	-.489493E-01	0.
-.450507E-02	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.444447E+00	.600894E+00	.593406E+00	.593327E+00	.593364E+00	.593242E+00	.593339E+00
.259068E+00	.738321E-01	.103672E+00	-.907408E-01	-.906768E-01	-.900154E-01	-.901644E-01
-.224420E+00	-.306573E+00	-.999397E-01	-.443541E-01	-.462621E-01	-.460577E-01	-.468186E-01
-.155271E+00	-.112915E+00	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.593317E+00	.593333E+00	.593295E+00	.593240E+00	.593323E+00	.593182E+00	.593451E+00
-.904090E-01	-.904329E-01	-.902449E-01	-.900547E-01	-.902474E-01	-.894636E-01	-.906941E-01
-.463477E-01	-.463567E-01	-.462777E-01	-.465071E-01	-.465991E-01	-.463912E-01	-.472597E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.593331E+00	.481516E+00	.272472E-02	.338843E-02	.432912E-02	.572222E-02	.791331E-02
-.912781E-01	-.136875E+00	0.	.563285E-02	.703077E-02	.902022E-02	.119870E-01
-.456678E-01	-.497803E-01	0.	0.	.506486E-02	.708099E-02	.910347E-02
0.	0.	0.	0.	0.	.579548E-02	.729431E-02
0.	0.	0.	0.	0.	0.	.607324E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.116508E-01	.188165E-01	.353125E-01	.877337E-01	.151912E+00	.177370E+00	.764937E-01
.166884E-01	.247711E-01	.403153E-01	.745416E-01	.824081E-01	.830103E-02	-.198161E-01
.121350E-01	.169748E-01	.253737E-01	.41174E-01	.700726E-01	-.331874E-01	0.
.947670E-02	.128494E-01	.185084E-01	.287944E-01	.144691E-01	-.250893E-01	0.
.776615E-02	.103473E-01	.146357E-01	.223533E-01	.133268E-01	-.192391E-01	0.
.658399E-02	.868062E-02	.121550E-01	.183628E-01	.104144E-01	-.155107E-01	0.
0.	.749314E-02	.104261E-01	.156283E-01	.853945E-02	-.129708E-01	0.
0.	0.	.914807E-02	.136284E-01	.723312E-02	-.111307E-01	0.
0.	0.	0.	.120933E-01	.627076E-02	-.975614E-02	0.
0.	0.	0.	0.	.553291E-02	-.867767E-02	0.
0.	0.	0.	0.	0.	-.781309E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 9, Atomic No. = 2, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.538520E-01	.462580E-01	.108159E+00	.173742E+00	.252557E+00	.260559E+00	.424766E+00
0.	.219513E+00	.243996E+00	.207701E+00	.180590E+00	.164963E+00	.170198E+00
0.	0.	.455251E-01	.357443E-01	-.140617E-01	-.255209E-01	-.522157E-01
0.	0.	0.	-.424649E-02	-.212966E-01	-.167175E-01	-.236749E-01
0.	0.	0.	0.	-.148973E-01	-.103916E-01	-.465261E-02
0.	0.	0.	0.	-.440543E-02	0.	.419822E-02
0.	0.	0.	0.	0.	0.	.683173E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.283147E+00	.250491E+00	.214146E+00	.174825E+00	.204619E+00	.195400E+00	.220652E+00
-.121127E+00	-.207327E+00	-.172090E+00	-.140331E+00	-.712214E+02	-.155954E+00	-.161204E+00
-.287466E-01	-.447940E-01	-.708130E-01	-.832125E-01	-.216920E+00	-.206401E+00	-.855708E-01
-.791401E-02	-.147174E-01	-.418121E-01	-.848415E-01	-.160670E+00	.600049E-01	.166698E+00
.146179E-01	.229086E-01	.350588E-01	.296834E-02	.538713E-01	.158854E+00	.476509E+00
.119320E-01	.754314E-02	.899781E-02	.156734E-01	.740055E+01	.422023E-01	0.
.418523E-02	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.253473E+00	.163796E+00	.169334E+00	.169962E+00	.164663E+00	.170617E+00	.169869E+00
-.164711E+00	-.271643E+00	-.145230E+00	-.149935E+00	-.150402E+00	-.150447E+00	-.151060E+00
-.774134E-01	-.256535E-01	-.611626E-01	-.270226E-01	.280162E-01	.279841E-01	.282665E-01
.970328E-01	.699310E-01	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.170033E+00	.169904E+00	.170202E+00	.170248E+00	.169995E+00	.171065E+00	.168903E+00
-.150440E+00	-.150547E+00	-.150531E+00	-.150812E+00	-.150770E+00	-.150891E+00	-.151166E+00
.281219E-01	.280966E-01	.280723E-01	.281566E-01	.282032E-01	.281245E-01	.284465E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.169538E+00	.597816E-01	.271459E-02	.337322E-02	.430339E-02	.567705E-02	.782631E-02
-.149478E+00	-.122081E+00	0.	.556233E-02	.691932E-02	.883325E-02	.116481E-01
.278729E-01	.278388E-01	0.	0.	.550209E-02	.681809E-02	.884932E-02
0.	0.	0.	0.	0.	.550522E-02	.680980E-02
0.	0.	0.	0.	0.	0.	.559047E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.114602E-01	.183100E-01	.334584E-01	.748571E-01	.109793E+00	.949239E-01	.115889E+00
.160055E-01	.231700E-01	.355509E-01	.526545E-01	.247651E-01	-.193877E-01	.494997E-02
.112764E-01	.151294E-01	.205290E-01	.227674E-01	-.775536E-02	-.206581E-01	0.
.859878E-02	.110607E-01	.141208E-01	.134871E-01	-.951444E-02	-.100658E-01	0.
.691859E-02	.867536E-02	.106944E-01	.426344E-02	-.895774E-04	-.625319E-02	0.
.577856E-02	.712419E-02	.859962E-02	.692348E-02	-.811981E-02	-.441831E-02	0.
0.	.605238E-02	.718892E-02	.546277E-02	-.733066E-02	-.337019E-02	0.
0.	0.	.617755E-02	.447548E-02	-.664535E-02	-.270310E-02	0.
0.	0.	0.	.377055E-02	-.606086E-02	-.224582E-02	0.
0.	0.	0.	0.	-.556251E-02	-.191499E-02	0.
0.	0.	0.	0.	0.	-.166566E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 9, Atomic No. = 2, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.288670E-01	.253090E-01	.574140E-01	.892840E-01	.125161E+00	.129470E+00	.187433E+00
0.	.132033E+00	.135519E+00	.601121E-01	.119887E-01	-.457086E-02	-.520030E-01
0.	0.	-.225825E-01	-.499386E-01	-.557632E-01	-.377027E-01	-.366661E-01
0.	0.	0.	-.385120E-01	-.300654E-01	-.688546E-02	.116375E-01
0.	0.	0.	0.	-.102559E-01	.987250E-05	.114790E-01
0.	0.	0.	0.	0.	.187462E-02	.449895E-02
0.	0.	0.	0.	0.	0.	-.146294E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.139319E+00	.122931E+00	.104880E+00	.849240E-01	.754565E-01	.688601E-01	.771370E-01
-.375352E-01	-.363537E-01	-.444700E-01	-.497881E-01	-.181416E+00	-.124230E+00	-.136111E+00
.473106E-02	-.398694E-01	-.834612E-01	-.884248E-01	-.666731E-01	.157808E+00	.137124E+00
.170124E-01	.288319E-01	.239314E-01	.166168E-01	.129126E+00	.103201E+00	-.530347E-01
-.145130E-02	-.510495E-02	-.440568E-02	.343404E-01	.749114E-01	-.513931E-01	-.377254E-01
-.419315E-02	-.608435E-02	-.719447E-02	-.124700E-01	-.296657E-01	-.334539E-01	0.
-.364175E-02	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.681501E-01	-.184449E-02	.259792E-02	.277249E-02	.268922E-02	.295946E-02	.274661E-02
-.156387E+00	-.582935E-01	.121210E-01	.874389E-02	.874407E-02	.868589E-02	.870556E-02
.113916E+00	-.856512E-01	-.239712E-01	-.104315E-01	-.106739E-01	-.107204E-01	-.106399E-01
-.405435E-01	-.285248E-01	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.279297E-02	.275733E-02	.284097E-02	.285387E-02	.278227E-02	.308926E-02	.250159E-02
.872147E-02	.872467E-02	.870803E-02	.869420E-02	.871065E-02	.864213E-02	.874723E-02
-.107330E-01	-.106907E-01	-.107064E-01	-.106815E-01	-.106890E-01	-.107090E-01	-.106210E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.265445E-02	.121613E-02	.269945E-02	.334976E-02	.426502E-02	.560980E-02	.769719E-02
.878349E-02	-.194479E-02	0.	.545793E-02	.675410E-02	.855709E-02	.111502E-01
-.108117E-01	-.108887E-01	0.	0.	.526251E-02	.643332E-02	.799032E-02
0.	0.	0.	0.	0.	.508373E-02	.611382E-02
0.	0.	0.	0.	0.	0.	.490267E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.111787E-01	-.175698E-01	.308190E-01	.583905E-01	.446326E-01	.291582E-01	.916932E-02
.150123E-01	.208843E-01	.290439E-01	.274652E-01	-.167483E-01	-.239765E-01	-.861061E-03
.100481E-01	.125598E-01	.141801E-01	.348649E-02	-.230067E-01	.171657E-02	0.
.735977E-02	.861641E-02	.853986E-02	-.157618E-02	-.164212E-01	.625076E-02	0.
.573331E-02	.642349E-02	.579733E-02	-.307665E-02	-.131397E-01	.570697E-02	0.
.465876E-02	.506318E-02	.424546E-02	-.353644E-02	-.106855E-01	.491142E-02	0.
0.	.415107E-02	.327425E-02	-.362004E-02	-.898395E-02	.424525E-02	0.
0.	0.	.262154E-02	-.355518E-02	-.774079E-02	.371749E-02	0.
0.	0.	0.	-.342927E-02	-.674515E-02	.329807E-02	0.
0.	0.	0.	0.	-.605275E-02	.295976E-02	0.
0.	0.	0.	0.	0.	.268234E-02	0.
0.	0.	0.	0.	0.	0.	0.

HELIUM (He<sup>4</sup>)

Neutron ID = 10, Atomic No. = 2, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.900000E+06	.400000E+05	.270000E+05	-.331900E+05	.340400E+05	.163900E+05	-.214500E+05
0.	0.	0.	0.	0.	0.	0.
.822646E+00	.889775E+00	.974244E+00	.116814E+01	.143379E+01	.169124E+01	.213909E+01
.998310E+01	.842130E+01	.206190E+00	.355239E+00	.540867E+00	.567462E+00	.102407E+01
0.	.335375E+00	.394944E+00	.474142E+00	.554490E+00	.583815E+00	.893031E+00
0.	0.	.179218E+00	.231714E+00	.146550E+00	.101246E+00	.224674E+00
0.	0.	0.	.846513E-01	.571765E-01	.409043E-01	.156488E+00
0.	0.	0.	0.	.229346E-01	.456924E-01	.106455E+00
0.	0.	0.	0.	0.	.679681E-01	.760311E-01
0.	0.	0.	0.	0.	0.	.326671E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.300880E+05	.955000E+05	.300880E+05	.127000E+05	.692000E+05	.188500E+05	-.308800E+05
0.	0.	0.	0.	0.	0.	0.
.250821E+01	.305052E+01	.388546E+01	.529527E+01	.592666E+01	.240796E+01	.113833E+01
.753577E+00	.911908E+00	.108053E+01	.142010E+01	.228127E+01	.545931E+00	.218134E+00
.641592E+00	.185800E+01	.126747E+01	.152511E+01	.260212E+01	.208345E+01	.111085E+01
.124007E+00	.239843E+00	.352492E+00	.438634E+00	.475282E+00	.126629E+01	.154908E+01
.837611E-01	.105838E+00	.137708E+00	.204920E+00	.438578E+00	.304535E+00	.675873E+02
.689319E-03	.671496E-03	.903361E-03	.753181E-01	.135212E+00	.192245E-02	0.
0.	0.	0.	0.	.571865E-03	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
-.400000E+07	-.759300E+06	-.785900E+06	.196800E+06	.636000E+06	.693400E+06	-.841100E+06
0.	0.	0.	0.	0.	0.	0.
.917989E+00	.835936E+00	.790615E+00	.774900E+00	.767895E+00	.760839E+00	.753896E+00
.229193E+00	.469059E+00	.457311E+00	.446137E+00	.442417E+00	.437199E+00	.434106E+00
.572591E+00	.688493E+00	.366793E+00	.333205E+00	.328764E+00	.325355E+00	.323545E+00
.750188E+00	.355605E+00	.303040E+03	.847517E+04	.997854E+04	.688032E+04	.122364E+03
.289308E+02	.985115E+03	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
-.670600E+06	.590800E+07	.294000E+06	.865100E+06	.137000E+08	-.259400E+06	.992000E+07
0.	0.	0.	0.	0.	0.	0.
.746985E+00	.748146E+00	.733363E+00	.726650E+00	.720002E+00	.713392E+00	.706916E+00
.429931E+00	.426143E+00	.421894E+00	.417979E+00	.414444E+00	.409429E+00	.408052E+00
.319697E+00	.316961E+00	.313900E+00	.311365E+00	.308576E+00	.305426E+00	.303901E+00
.943066E+04	.988411E+04	.936706E+04	.102941E+03	.103706E+03	.941349E+04	.131863E+03
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	.103998E-01	.940318E-02	.831695E-02	.712424E-02	.581751E-02
0.	0.	0.	0.	0.	0.	0.
.786485E+00	.675116E+00	.116288E+00	.124131E+00	.133752E+00	.145810E+00	.161406E+00
.403672E+00	.675116E+00	.272979E+02	.339881E+02	.434203E+02	.574491E+02	.795708E+02
.298787E+00	.296733E+00	0.	.568830E+02	.708689E+02	.911456E+02	.121587E+01
.622594E+04	.769308E+04	0.	0.	.574717E+02	.721437E+02	.933508E+02
0.	0.	0.	0.	0.	.594344E+02	.754288E+02
0.	0.	0.	0.	0.	0.	.632211E+02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.439991E+02	.289907E+02	.140546E+02	.242175E+03	.274141E+06	.188803E+04	.114121E+01
0.	0.	0.	0.	0.	0.	0.
.182442E+00	.212552E+00	.259814E+00	.347943E+00	.489243E+00	.720817E+00	.112650E+01
.117470E+01	.190738E+01	.362689E+01	.948039E+01	.177442E+01	.475363E+00	.111909E+01
.170362E+01	.254955E+01	.428327E+01	.672649E+01	.125724E+01	.311801E+00	.544428E+01
.125765E+01	.179387E+01	.279937E+01	.524043E+01	.656906E+01	.127658E+00	0.
.993175E+02	.137939E+01	.209206E+01	.384117E+01	.506035E+01	.719952E+01	0.
.820922E+02	.112375E+01	.168260E+01	.307386E+01	.441073E+01	.505347E+01	0.
.780717E+02	.951194E+02	.141501E+01	.257921E+01	.408973E+01	.389797E+01	0.
0.	.826908E+02	.122590E+01	.222975E+01	.392774E+01	.317354E+01	0.
0.	0.	.108353E+01	.196775E+01	.395179E+01	.267652E+01	0.
0.	0.	0.	.176304E+01	.382558E+01	.231423E+01	0.
0.	0.	0.	0.	.382970E+01	.203839E+01	0.
0.	0.	0.	0.	0.	.182133E+01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 10, Atomic No. = 2, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .871480E-01 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .742700E-01 .276810E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. -1.179170E+00 -3.23629E+00 -1.10983E+00 0. 0. 0. 0. 0. 0.	0. 0. 0. -3.03354E+00 -3.46580E+00 -1.27714E+00 -3.09842E-01 0. 0. 0. 0. 0.	0. 0. 0. -4.52648E+00 -3.67356E+00 -5.23843E-01 -9.85523E-02 -2.63301E-02 0. 0. 0. 0. 0.	0. 0. 0. -4.75956E+00 -3.69927E+00 -1.80762E-01 -9.84821E-02 -2.05997E-01 -4.51469E-01 0. 0. 0. 0. 0.	0. 0. 0. -8.02998E+00 -4.80053E+00 -3.14018E-01 -1.03243E+00 -8.17412E-01 -6.34188E-01 -2.99029E-01 0. 0. 0. 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .630920E+00 .354307E+00 -5.79407E-01 -6.98310E-01 -6.64854E-03 0. 0.	0. 0. 0. .763261E+00 -6.59069E+00 -7.65942E-02 -8.72544E-01 -6.20069E-03 0. 0.	0. 0. 0. -9.04415E+00 -7.83821E+00 -4.82048E-01 -8.72114E-01 -8.42392E-03 0. 0.	0. 0. 0. -1.18697E+01 -9.43842E+00 -4.7571E-01 -9.12412E-01 -6.16444E-01 0. 0.	0. 0. 0. -1.171791E+01 -1.16842E+01 -1.23083E+00 -2.55620E+00 -1.10507E+00 -5.05581E-03 0. 0.	0. 0. 0. -3.75677E+00 -2.27664E-01 -7.63098E+00 -2.46995E+00 -1.80747E-02 0. 0.	0. 0. 0. -1.39779E+00 -1.75983E+00 -1.06767E+01 -6.54456E-02 0. 0. 0. 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. -1.58257E+00 -4.39858E-01 -5.27397E+00 -2.79398E-02 0.	0. 0. 0. -1.03606E+00 -1.54004E+00 -2.42321E+00 -9.97637E-03 0.	0. 0. 0. -2.01633E+00 -9.61281E-01 -2.98471E-03 0. 0.	0. 0. 0. -1.98970E+00 -7.15985E-01 -7.68643E-04 0. 0.	0. 0. 0. -1.97886E+00 -6.97882E-01 -8.87466E-04 0. 0.	0. 0. 0. -1.95471E+00 -6.90461E-01 -7.80252E-04 0. 0.	0. 0. 0. -1.93535E+00 -6.88656E-01 -1.11042E-03 0. 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. -1.91794E+00 -6.78552E-01 -8.36012E-04 0.	0. 0. 0. -1.98013E+00 -6.72745E-01 -8.81382E-04 0.	0. 0. 0. -1.88332E+00 -6.66204E-01 -8.31423E-04 0.	0. 0. 0. -1.86617E+00 -6.60736E-01 -9.23237E-04 0.	0. 0. 0. -1.84859E+00 -6.54872E-01 -9.31529E-04 0.	0. 0. 0. -1.83366E+00 -6.47954E-01 -8.38387E-04 0.	0. 0. 0. -1.81304E+00 -6.44951E-01 -1.28883E-03 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. -1.79740E+00 -6.63456E-01 -5.26166E-04 0. 0. 0.	0. 0. 0. -1.28893E+00 -6.30524E-01 -6.71693E-04 0. 0. 0.	0. 0. 0. -2.72472E-02 0. 0. 0. 0. 0.	0. 0. 0. -3.38893E-02 -5.63285E-02 0. 0. 0.	0. 0. 0. -4.32912E-02 -7.03877E-02 -5.66486E-02 0. 0. 0.	0. 0. 0. -5.72222E-02 -9.02022E-02 -7.08099E-02 -5.79548E-02 0. 0.	0. 0. 0. -7.91331E-02 -1.19870E-01 -9.10347E-02 -7.29431E-02 -6.07324E-02 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. -1.16509E-01 -1.86884E-01 -1.21350E-01 -9.47670E-02 -7.76615E-02 -6.58399E-02 0. 0. 0. 0. 0.	0. 0. 0. -1.88165E-01 -2.47711E-01 -1.69748E-01 -1.28494E-01 -1.83473E-01 -8.69082E-02 -7.49314E-02 0. 0. 0. 0. 0.	0. 0. 0. -3.53125E-01 -4.83153E-01 -2.53737E-01 -1.85084E-01 -1.46357E-01 -1.21550E-01 -1.04261E-01 -9.14807E-02 0. 0. 0. 0. 0.	0. 0. 0. -8.77337E-01 -7.45416E-01 -4.11778E-01 -2.87994E-01 -2.23543E-01 -1.83624E-01 -1.56283E-01 -1.36289E-01 -1.20933E-01 0. 0. 0. 0. 0.	0. 0. 0. -1.51912E+00 -8.28081E-01 -3.00726E-01 -1.84691E-01 -1.33268E-01 -1.04144E-01 -8.53985E-02 -7.23312E-02 -6.27076E-02 -5.53291E-02 0. 0. 0. 0. 0.	0. 0. 0. -1.77370E+00 -8.30103E-02 -3.31878E-01 -2.50893E-01 -1.92391E-01 -1.55107E-01 -1.29708E-01 -1.11382E-01 -9.75614E-02 -8.67767E-02 -7.81309E-02 0. 0. 0. 0. 0.	0. 0. 0. -7.64937E-01 -1.98161E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 10, Atomic No. = 2, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.637820E+01	.554730E-01	.129919E+00	.212413E+00	.304369E+00	.321522E+00	.474903E+00
0.	.183724E+00	.203803E+00	.153378E+00	.110117E-00	.897528E-01	.429033E-01
0.	0.	.155895E-01	-.646774E-02	-.407020E-01	-.412214E-01	-.584802E-01
0.	0.	0.	-.239420E-01	-.244489E-01	-.151116E-01	.374174E-01
0.	0.	0.	0.	-.984227E-02	-.755273E-02	.447725E-01
0.	0.	0.	0.	0.	.132993E-01	.426667E-01
0.	0.	0.	0.	0.	0.	.249589E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.424625E+00	.513364E+00	.608348E+00	.796873E+00	.930442E+00	.161671E+00	.537941E-01
.375635E+01	.142139E+00	.142361E+00	.198074E+00	.133394E+00	-.481778E+00	-.280146E+00
-.133826E+01	-.826126E-01	.148531E+00	-.182307E+00	-.304230E+00	.175406E+00	.437753E+00
.473178E-01	.574436E-01	.883264E-02	-.313657E-01	.478614E-01	.156169E+00	.442761E-02
.656970E-03	.644811E-03	.867649E-03	.398733E-01	.713562E-01	.183608E-02	0.
0.	0.	0.	0.	.550839E-03	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.682944E-01	.187204E-01	.309778E-01	.311410E-01	.308309E-01	.306336E-01	.302862E-01
-.145371E+00	-.573930E-01	-.116202E-01	-.211358E-01	-.214597E-01	-.212620E-01	-.211524E-01
.236901E+00	.987030E-01	.295389E-03	.820104E-04	.966165E-04	.861019E-04	.118152E-03
.276084E-02	.958188E-03	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.300225E-01	.297370E-01	.294927E-01	.292265E-01	.289349E-01	.287600E-01	.283324E-01
-.208770E-01	-.573930E-01	-.205001E-01	-.203542E-01	-.201647E-01	-.199876E-01	-.198580E-01
.914084E-04	.957225E-04	.987618E-04	.996223E-04	.108349E-03	.911886E-04	.126961E-03
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.281114E-01	.110119E-01	.271459E-02	.337322E-02	.430339E-02	.567705E-02	.782631E-02
-.194686E-01	-.192727E-01	0.	.556233E-02	.691932E-02	.883325E-02	.116481E-01
.604578E-04	.745786E-04	0.	0.	.550209E-02	.681809E-02	.864932E-02
0.	0.	0.	0.	0.	.550522E-02	.680980E-02
0.	0.	0.	0.	0.	0.	.559047E-02
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.114602E-01	.183100E-01	.334584E-01	.748571E-01	.109793E+00	.949239E-01	.115889E+00
.160055E-01	.231700E-01	.355509E-01	.526595E-01	.247651E-01	-.193877E-01	.494997E-02
.112764E-01	.151294E-01	.205290E-01	.227674E-01	.775536E-02	-.206581E-01	0.
.859878E-02	.110607E-01	.141208E-01	.134871E-01	-.951444E-02	-.100658E-01	0.
.691659E-02	.867536E-02	.106984E-01	.926394E-02	-.895774E-02	-.625319E-02	0.
.577656E-02	.719919E-02	.859962E-02	.692348E-02	-.811981E-02	-.441831E-02	0.
0.	.805238E-02	.718889E-02	.546277E-02	-.733066E-02	-.337019E-02	0.
0.	0.	.617755E-02	.447598E-02	-.664535E-02	-.270318E-02	0.
0.	0.	0.	.377055E-02	-.680086E-02	-.224582E-02	0.
0.	0.	0.	0.	-.556251E-02	-.191499E-02	0.
0.	0.	0.	0.	0.	-.166566E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 10, Atomic No. = 2, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.332870E-01	.298380E-01	.668190E-01	.103686E+00	.139811E+00	.148791E+00	.181326E+00
0.	.788217E-01	.720326E-01	-.191359E-01	-.759575E-01	-.916238E-01	-.135326E+00
0.	0.	-.536701E-01	-.843682E-01	-.543231E-01	-.222003E-01	.630784E-02
0.	0.	0.	-.334713E-01	-.129329E-01	.113041E-01	.108521E-02
0.	0.	0.	0.	.315177E-02	.174872E-01	-.121084E-01
0.	0.	0.	0.	0.	.104007E-01	-.205133E-01
0.	0.	0.	0.	0.	0.	-.186618E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.195354E+00	.235920E+00	.279636E+00	.364194E+00	.305846E+00	.297622E-01	.526191E-02
-.105317E+00	-.179013E+00	-.220139E+00	-.260084E+00	-.409435E+00	.427002E-01	.111457E+00
.366808E-01	-.671424E-02	-.493307E-01	-.585334E-01	.609324E-01	.109272E+00	-.325227E-01
-.241246E-01	-.271180E-01	.223419E-01	.638664E-01	.435100E-01	-.664965E-01	-.616485E-02
-.636902E-03	-.626853E-03	-.842519E-03	-.180963E-01	-.321923E-01	-.177811E-02	0.
0.	0.	0.	0.	-.540888E-03	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.121188E-01	.446024E-02	.207114E-02	.175874E-02	.175833E-02	.169360E-02	.171578E-02
-.316670E-01	.426893E-02	-.244196E-02	-.194871E-02	-.181108E-02	-.177004E-02	-.175563E-02
-.413035E-01	-.886072E-02	-.294989E-03	-.766662E-04	-.924420E-04	-.823648E-04	-.113391E-03
-.270687E-02	-.951080E-03	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.169144E-02	.168253E-02	.165532E-02	.163775E-02	.163227E-02	.156244E-02	.165847E-02
-.175239E-02	-.173625E-02	-.171402E-02	-.169122E-02	-.168254E-02	-.163666E-02	-.165846E-02
-.877100E-04	-.918220E-04	-.870228E-04	-.956320E-04	-.963839E-04	-.875123E-04	-.121851E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.109957E-02	.438346E-04	.289998E-02	.334976E-02	.428802E-02	.560980E-02	.749719E-02
-.167375E-02	-.172857E-02	0.	.945793E-02	.675410E-02	.855709E-02	.111502E-01
-.577024E-04	-.718806E-04	0.	0.	.524251E-02	.643339E-02	.799032E-02
0.	0.	0.	0.	0.	.508373E-02	.611382E-02
0.	0.	0.	0.	0.	0.	.490267E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.111787E-01	.175698E-01	.308190E-01	.583905E-01	.646326E-01	.291582E-01	.916932E-02
.150123E-01	.208843E-01	.290439E-01	.274652E-01	-.167483E-01	-.239765E-01	-.861061E-03
.100481E-01	.125598E-01	.141801E-01	.348615E-02	-.230067E-01	.171657E-02	0.
.735977E-02	.861641E-02	.853986E-02	-.157418E-02	-.184212E-01	.625074E-02	0.
.573031E-02	.642349E-02	.579733E-02	-.307865E-02	-.131397E-01	.570697E-02	0.
.465870E-02	.506318E-02	.424546E-02	-.353643E-02	-.108855E-01	.491142E-02	0.
0.	.415107E-02	.327425E-02	-.362066E-02	-.898395E-02	.424525E-02	0.
0.	0.	.262159E-02	-.355518E-02	-.774079E-02	.371749E-02	0.
0.	0.	0.	-.342927E-02	-.679515E-02	.329807E-02	0.
0.	0.	0.	0.	-.605275E-02	.295976E-02	0.
0.	0.	0.	0.	0.	.268234E-02	0.
0.	0.	0.	0.	0.	0.	0.



LITHIUM (Li<sup>6</sup>)

Neutron ID = 23, Atomic No. = 3, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
-.429891E-n1 0. .116290E+01 .223710E+00 0. 0. 0. 0. 0. 0.	-.363757E-01 0. .118475E+01 .285746E+00 .330877E+00 0. 0. 0. 0. 0. 0.	-.259817E-01 0. .127267E+01 .398249E+00 .371930E+00 .407946E-01 0. 0. 0. 0. 0.	-.124200E-02 0. .140993E+01 .508805E+00 .293112E+00 .739555E-01 .573979E-01 0. 0. 0. 0.	.399924E-01 0. .154382E+01 .535801E+00 .315449E+00 .117168E+00 .120076E+00 .104864E+00 0. 0. 0. 0.	.740509E-01 0. .170802E+01 .491689E+00 .330642E+00 .131761E+00 .104494E+00 .818135E-01 .817337E-01 0. 0. 0.	.111545E+00 0. .194420E+01 .628791E+00 .535559E+00 .276832E+00 .156188E+00 .137505E+00 .132429E+00 .154380E+00 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.137587E+00 0. .147653E+n1 .430499E+00 .345804E+00 .157449E+00 .799652E-01 .639652E-n1 .579529E-n1 .865124E-01 .625717E-01 0. 0. 0. 0. 0. 0.	.181745E+00 0. .162592E+n1 .368159E+00 .482423E+00 .221085E+00 .195875E+00 .628372E-01 .588161E-n1 .634712E-01 .434644E-01 .422941E-01 0. 0. 0. 0. 0. 0.	.211927E+00 0. .139975E+01 .311062E+00 .495026E+00 .350586E+00 .130291E+00 .860734E-01 .504281E-01 .519609E-01 .371536E-01 .369517E-01 .322239E-01 0. 0. 0. 0. 0. 0.	.237400E+00 0. .135108E+01 .305220E+00 .474857E+00 .351722E+00 .129775E+00 .918049E-01 .666405E-01 .396044E-01 .419810E-01 .314857E-01 .146651E-01 .330510E-01 0. 0. 0. 0. 0. 0.	.289932E+00 0. .145073E+01 .578638E+00 .744432E+00 .377227E+00 .907974E-01 .992008E-01 .167079E+00 .870116E-01 .589587E-01 .448028E-01 .353554E-01 .361656E-01 .186969E-01 0. 0. 0. 0. 0.	.398601E+00 0. .178883E+01 .702089E+00 .551067E+00 .645689E-01 0. .899423E-01 .131446E+00 .101966E+00 .479404E-01 .334751E-01 .217147E-01 .182167E-01 .192690E-01 .102030E-01 0. 0. 0. 0.	.112822E+01 0. .336678E+01 .983413E+00 .647212E+00 .310963E-01 0. .122559E-01 .485246E-01 .453277E-01 .597673E-01 .255158E-01 .169590E-01 .705341E-02 .538810E-02 .564964E-02 .561336E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.215832E+n1 0. .734338E+n1 .246181E+01 .115391E+01 .409240E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.884031E+00 0. .195969E+01 .788646E+00 .272325E+01 .101239E+00 0. 0. .541252E-n4 .498319E-n3 0. .267825E-n1 .328402E-01 .112487E-01 .688156E-n2 .317595E-n2 .255455E-02 .284465E-02 .282438E-n2 0. 0. 0. 0. 0. 0.	.102808E+01 0. .173359E+01 .491331E+00 .286967E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.149354E+01 0. .216833E+01 .808354E+00 .214197E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.218418E-01 0. .301759E+01 .568624E+00 .208633E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.342004E-01 0. .436028E+01 .654176E+00 .286793E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.563666E+01 0. .858667E+01 .664571E+00 .286066E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.930282E+01 0. .102528E+02 .664209E+00 .285437E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.151057E+02 0. .180557E+02 .664400E+00 .785785E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.249647E+02 0. .259167E+02 .664083E+00 .285695E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.413552E+02 0. .423052E+02 .663954E+00 .285934E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.688220E+02 0. .689720E+02 .664530E+00 .286853E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.111474E+03 0. .112424E+03 .663194E+00 .285474E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.183718E+03 0. .184688E+03 .665203E+00 .286761E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.660359E-04 .772561E-04 .221849E-04 .155701E-04 .671784E-05 .559258E-05 .646081E-05 .641852E-05 0. 0.	.242975E-04 .284240E-04 .816007E-05 .872813E-05 .247115E-05 .805735E-05 .237661E-05 .236134E-05 0. 0.	.892750E-05 0. .104434E-04 .299744E-05 .210455E-05 0. 0. 0. 0. 0. 0.	.328564E-05 .384358E-05 .116328E-05 0. 0. 0. 0. 0. 0.	.121027E-00 .141576E-00 0. 0. 0. 0. 0. 0. 0. 0.	.121027E-00 .141576E-00 0. 0. 0. 0. 0. 0. 0. 0.	.121027E-00 .141576E-00 0. 0. 0. 0. 0. 0. 0. 0.



Neutron ID = 23, Atomic No. = 3, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.193470E+00	.180058E+00	.342330E+00	.431495E+00	.448884E+00	.408623E+00	.477501E+00
0.	.269375E+00	.295741E+00	.204642E+00	.194874E+00	.197774E+00	.160252E+00
0.	0.	.194481E-01	.197647E-01	.929548E-02	-.342097E-02	-.568224E-02
0.	0.	0.	.419689E-02	.282122E-03	-.545441E-03	.191622E-01
0.	0.	0.	0.	-.378087E-02	.219113E-02	.136744E-01
0.	0.	0.	0.	0.	.284545E-02	.476380E-02
0.	0.	0.	0.	0.	0.	.488390E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.344263E+00	.289240E+00	.240733E+00	.236532E+00	.343208E+00	.419871E+00	.406994E+00
.113137E+00	.193455E+00	.170052E+00	.153544E+00	.441064E+00	-.441752E-01	-.783353E-01
-.256418E-02	-.770092E-01	-.151943E+00	-.147315E+00	-.185182E+00	-.527947E-01	-.252853E-01
.212647E-01	.282282E-01	-.374057E-01	-.484070E-01	-.750825E-01	0.	0.
.119882E-01	.159166E-01	.227380E-01	.248420E-01	.242957E-01	-.192401E-01	.231679E-02
.609034E-02	.105918E-01	.122416E-01	.174151E-01	.452597E-01	.310742E-01	.965534E-02
.305258E-02	.444633E-02	.816310E-02	.937410E-02	.227437E-01	.276154E-01	.116068E-01
.244292E-02	.236588E-02	.345722E-02	.544534E-02	.121653E-01	.124366E-01	.161902E-01
0.	.189337E-02	.177592E-02	.254173E-02	.713630E-02	.673519E-02	.654752E-02
0.	0.	.147123E-02	.132671E-02	.315303E-02	.355509E-02	.373435E-02
0.	0.	0.	.106174E-02	.170472E-02	.162695E-02	.181590E-02
0.	0.	0.	0.	.136425E-02	.930276E-03	.853935E-03
0.	0.	0.	0.	0.	.744481E-03	.511805E-03
0.	0.	0.	0.	0.	0.	.409587E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.143369E+01	.862560E-01	.886933E-01	.125102E+00	.159044E+00	.177662E+00	.178670E+00
-.129130E+00	-.101259E+01	-.973089E-01	-.633760E-01	-.518335E-01	-.658257E-01	-.725484E-01
-.337724E-01	-.812391E-01	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.215469E-02	.903070E-05	0.	0.	0.	0.	0.
0.	.845937E-04	0.	0.	0.	0.	0.
.668502E-02	0.	0.	0.	0.	0.	0.
.942134E-02	.653896E-02	0.	0.	0.	0.	0.
.342610E-02	.889934E-02	.240436E-02	0.	0.	0.	0.
.206470E-02	.293329E-02	.317693E-02	.880849E-03	0.	0.	0.
.947711E-03	.188036E-02	.949811E-03	.115166E-02	.324139E-03	0.	0.
.455715E-03	.818287E-03	.656782E-03	.332166E-03	.422288E-03	.118814E-03	0.
.292968E-03	.481956E-03	.273847E-03	.235950E-03	.120045E-03	.134557E-03	.438739E-04
.226453E-03	.257699E-03	.136908E-03	.966870E-04	.861993E-04	.437330E-04	.570444E-04
0.	.206231E-03	.900040E-04	.888903E-04	.350883E-04	.315117E-04	.161101E-04
0.	0.	.323360E-04	.177194E-04	.177194E-04	.127955E-04	.116247E-04
0.	0.	.720324E-04	.258743E-04	.118131E-04	.646842E-05	.471597E-05
0.	0.	0.	0.	.945381E-05	.431850E-05	.238496E-05
0.	0.	0.	0.	0.	.345601E-05	.159318E-05
0.	0.	0.	0.	0.	0.	.127493E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.178736E+00	.178701E+00	.178785E+00	.178737E+00	.178696E+00	.179003E+00	.178451E+00
-.724472E-01	-.725252E-01	-.724899E-01	-.725719E-01	-.725282E-01	-.724853E-01	-.727895E-01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.161227E-04	0.	0.	0.	0.	0.	0.
.209586E-04	.593225E-05	0.	0.	0.	0.	0.
.591482E-05	.771109E-05	.217965E-05	0.	0.	0.	0.
.427828E-05	.217561E-05	.283317E-05	0.	0.	0.	0.
.173106E-05	.157101E-05	0.	.104271E-05	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.178595E+00	.106214E+00	.408708E-02	.50830E-02	.64936E-02	.85833E-02	.11870E-01
-.722400E-01	-.723837E-01	0.	.844927E-02	.105462E-01	.135303E-01	.179805E-01
0.	0.	0.	0.	.849729E-02	.106215E-01	.136552E-01
0.	0.	0.	0.	0.	.869323E-02	.109415E-01
0.	0.	0.	0.	0.	0.	.910987E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.174762E-01	.282248E-01	.529688E-01	.131600E+00	.227869E+00	.266054E+00	.114741E+00
.250326E-01	.371566E-01	.604729E-01	.111812E+00	.124212E+00	.124515E-01	-.297242E-01
.182825E-01	.254622E-01	.380605E-01	.617666E-01	.451089E-01	-.497817E-01	0.
.142150E-01	.192748E-01	.277626E-01	.43191E-01	.277037E-01	-.376340E-01	0.
.116492E-01	.155210E-01	.219536E-01	.335300E-01	.199902E-01	-.288546E-01	0.
.987598E-02	.130209E-01	.182325E-01	.275442E-01	.156216E-01	-.232660E-01	0.
0.	.112397E-01	.156391E-01	.234424E-01	.128098E-01	-.194563E-01	0.
0.	0.	.137221E-01	.204403E-01	.108497E-01	-.167073E-01	0.
0.	0.	0.	.181400E-01	.940615E-02	-.146347E-01	0.
0.	0.	0.	0.	.824936E-02	-.130165E-01	0.
0.	0.	0.	0.	0.	-.117196E-01	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 23, Atomic No. = 3, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.138945E+00	.132311E+00	.242808E+00	.298205E+00	.303112E+00	.271473E+00	.272968E+00
0.	.189329E+00	.172496E+00	.921352E-01	.673977E-01	.601028E-01	.203056E-01
0.	0.	-.507894E-02	-.103293E-01	-.148512E-01	-.117706E-01	.471485E-02
0.	0.	0.	-.845843E-02	-.797174E-02	.539831E-02	.858734E-02
0.	0.	0.	0.	-.189838E-02	.561035E-03	.275547E-02
0.	0.	0.	0.	0.	-.787865E-03	.122831E-02
0.	0.	0.	0.	0.	0.	.931184E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.211101E+00	.170525E+00	.137099E+00	.135120E+00	.102858E+00	.131517E+00	.216553E+00
-.108524E-01	-.853100E-01	-.918250E-01	-.980804E-01	-.131281E+00	-.761057E-01	-.736574E-01
.290645E-01	-.105119E-02	-.327321E-01	-.282804E-01	.268550E-02	.340781E-01	.162252E-01
.255179E-02	.656537E-02	.394586E-01	.629548E-01	.498615E-01	0.	0.
.134282E-02	.238901E-02	.514834E-02	.496107E-02	.477744E-02	.266712E-02	.181330E-03
.198295E-02	.633678E-03	.200365E-02	.402770E-02	.926880E-02	.586295E-02	.100607E-02
.118655E-03	.818846E-03	.415688E-03	.142340E-02	.542705E-02	.571823E-02	.216250E-02
-.224415E-04	.89957E-04	.608462E-03	.30234E-03	.179012E-02	.297603E-02	.339236E-02
0.	-.174319E-04	.675243E-04	.446427E-03	.365905E-03	.991874E-03	.156274E-02
0.	0.	-.130850E-04	.504442E-04	.551242E-03	.181325E-03	.551694E-03
0.	0.	0.	-.477523E-05	.648168E-04	.282246E-03	.917391E-04
0.	0.	0.	0.	-.125604E-04	.135710E-04	.147123E-03
0.	0.	0.	0.	0.	-.685430E-05	.194599E-04
0.	0.	0.	0.	0.	0.	-.377100E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.411713E+00	.700558E-02	-.445795E-02	.128031E-01	.175163E-01	.179476E-01	.179155E-01
-.119321E+00	-.113516E-01	-.538956E-03	-.300700E-02	-.957300E-02	-.127556E-01	-.126356E-01
.223003E-01	.500087E-01	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.116754E-03	0.	0.	0.	0.	0.	0.
0.	.163635E-05	0.	0.	0.	0.	0.
.130629E-02	0.	0.	0.	0.	0.	0.
.199422E-02	.127774E-02	0.	0.	0.	0.	0.
.814741E-03	.191465E-02	.469823E-03	0.	0.	0.	0.
.306439E-03	.665935E-03	.687605E-03	.172122E-03	0.	0.	0.
.475211E-04	.280200E-03	.222985E-03	.250304E-03	.633383E-04	0.	0.
.780889E-04	.407301E-04	.981689E-04	.777580E-04	.918917E-04	.232167E-04	0.
.107590E-04	.685258E-04	.135458E-04	.353108E-04	.280828E-04	.336539E-04	.857318E-05
-.208492E-05	.979824E-05	.232430E-04	.477006E-05	.129055E-04	.102222E-04	.124233E-04
0.	-.189873E-05	.342233E-05	.825229E-05	.172932E-05	.471863E-05	.376503E-05
0.	0.	0.	.122950E-05	.300121E-05	0.	.174082E-05
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.179530E-01	.179113E-01	.179638E-01	.179548E-01	.179203E-01	.179853E-01	.178994E-01
-.125517E-01	-.125784E-01	-.125378E-01	-.125874E-01	-.125842E-01	-.125470E-01	-.126034E-01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.315045E-03	.115919E-03	0.	0.	0.	0.	0.
.456475E-03	.167950E-03	0.	0.	0.	0.	0.
.138225E-03	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.179143E-01	.537594E-02	.407189E-02	.505983E-02	.645509E-02	.651557E-02	.117395E-01
-.125266E-01	-.125406E-01	0.	.834350E-02	.103790E-01	.132499E-01	.174721E-01
0.	0.	0.	0.	.825313E-02	.102271E-01	.129740E-01
0.	0.	0.	0.	0.	.825783E-02	.102147E-01
0.	0.	0.	0.	0.	0.	.838570E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.171903E-01	.274650E-01	.501876E-01	.112286E+00	.164690E+00	.142386E+00	.173833E+00
.240083E-01	.347550E-01	.533264E-01	.789892E-01	.371476E-01	-.290815E-01	.742496E-02
.169145E-01	.226940E-01	.307936E-01	.341311E-01	-.116330E-01	-.309871E-01	0.
.129942E-01	.165918E-01	.211812E-01	.202315E-01	-.142717E-01	-.150987E-01	0.
.103749E-01	.130130E-01	.160476E-01	.134959E-01	-.134366E-01	-.937979E-02	0.
.864483E-02	.106938E-01	.128994E-01	.103852E-01	-.121797E-01	-.662746E-02	0.
0.	.897857E-02	.187833E-01	.819415E-02	-.109960E-01	-.505529E-02	0.
0.	0.	.926632E-02	.671397E-02	-.998803E-02	-.405467E-02	0.
0.	0.	0.	.565593E-02	-.909129E-02	-.336973E-02	0.
0.	0.	0.	0.	-.834377E-02	-.287249E-02	0.
0.	0.	0.	0.	0.	-.249849E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 23, Atomic No. = 3, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.789576E-01	.694420E-01	.120874E+00	.143051E+00	.141101E+00	.123308E+00	.105967E+00
0.	.851029E-01	.457773E-01	.122891E-03	-.839169E-02	-.914382E-02	-.923327E-02
0.	0.	-.168284E-01	-.147824E-01	.540700E-02	.149090E-01	.160813E-01
0.	0.	0.	.207441E-02	.813254E-02	-.102564E-02	-.727538E-02
0.	0.	0.	0.	.246962E-02	-.210779E-02	.607416E-04
0.	0.	0.	0.	0.	.909998E-03	-.280792E-03
0.	0.	0.	0.	0.	0.	-.104035E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.843156E-01	.634441E-01	.477025E-01	.473097E-01	.614652E-02	.129585E-01	.409261E-01
-.341815E-01	-.858366E-01	-.949379E-01	-.893642E-01	-.360821E-01	-.913791E-03	.527631E-02
-.795291E-02	.817186E-01	.636751E-01	.630715E-01	.380261E-01	-.1544427E-01	-.722754E-02
-.157375E-02	.159674E-02	-.179505E-01	-.307614E-01	-.242382E-01	0.	0.
-.153914E-02	-.103813E-02	.131746E-02	-.445166E-02	-.514321E-03	-.870636E-03	-.162960E-03
-.370759E-03	-.121291E-02	-.928100E-03	.108089E-02	-.736378E-03	-.843764E-03	-.574936E-03
-.293375E-03	-.279052E-03	-.888725E-03	-.711435E-03	.142871E-02	-.421437E-03	-.240029E-03
-.213844E-03	-.227378E-03	-.207946E-03	-.647386E-03	-.883757E-03	.790492E-03	-.236623E-03
0.	-.165739E-03	-.170679E-03	-.153301E-03	-.775825E-03	-.490262E-03	.425755E-03
0.	0.	-.124410E-03	-.127506E-03	-.191347E-03	-.386886E-03	-.273998E-03
0.	0.	0.	-.929408E-04	-.163835E-03	-.997452E-04	-.197982E-03
0.	0.	0.	0.	-.119421E-03	-.894060E-04	-.528230E-04
0.	0.	0.	0.	0.	-.651692E-04	-.491881E-04
0.	0.	0.	0.	0.	0.	-.358538E-04

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.24949E-01	.903110E-03	-.731919E-02	.782000E-06	.738934E-03	-.582695E-03	.623867E-03
-.250271E-01	.885270E-01	.492803E-03	-.278777E-02	-.569890E-03	-.684256E-03	-.980505E-03
-.106879E-01	-.194117E-01	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.172995E-03	0.	0.	0.	0.	0.	0.
0.	-.801488E-05	0.	0.	0.	0.	0.
-.144992E-03	0.	0.	0.	0.	0.	0.
-.131411E-03	-.141824E-03	0.	0.	0.	0.	0.
.218630E-03	-.107366E-03	-.521484E-04	0.	0.	0.	0.
-.153239E-03	.179960E-03	-.398459E-04	-.191048E-04	0.	0.	0.
-.103474E-03	-.148948E-03	.571641E-04	-.141699E-04	-.703028E-05	0.	0.
-.283861E-04	-.894686E-04	-.498025E-04	.197303E-04	-.515657E-05	-.257696E-05	0.
-.271952E-04	-.231994E-04	-.299767E-04	-.178724E-04	.709684E-05	-.188237E-05	0.
-.198229E-04	-.847667E-04	-.862758E-05	-.105841E-04	-.653655E-05	.257931E-05	0.
0.	-.180527E-04	-.865050E-05	-.307487E-05	-.384357E-05	-.239053E-05	0.
0.	0.	-.630540E-05	-.310777E-05	-.111991E-05	-.140171E-05	0.
0.	0.	0.	-.226529E-05	-.113532E-05	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.623323E-03	.615358E-03	.625180E-03	.616247E-03	.621922E-03	.632689E-03	.612505E-03
-.624030E-03	-.613035E-03	-.606179E-03	-.613602E-03	-.610180E-03	-.612993E-03	-.614966E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.619292E-03	.116527E-04	.404918E-02	.902464E-02	.639753E-02	.841470E-02	.115458E-01
-.604146E-03	-.410073E-03	0.	.818630E-02	.101311E-01	.126356E-01	.167253E-01
0.	0.	0.	0.	.789377E-02	.944997E-02	.119855E-01
0.	0.	0.	0.	0.	.762559E-02	.917073E-02
0.	0.	0.	0.	0.	0.	.735400E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.167481E-01	.263540E-01	.462285E-01	.875857E-01	.969489E-01	.437374E-01	.137540E-01
.225185E-01	.313265E-01	.435659E-01	.411974E-01	-.251224E-01	-.359648E-01	-.129159E-02
0.	0.	0.	0.	0.	0.	0.
.150722E-01	.180385E-01	.212701E-01	.523048E-02	-.345100E-01	.257486E-02	0.
.110397E-01	.129246E-01	.128098E-01	-.236426E-02	-.253817E-01	.937614E-02	0.
.859546E-02	.961524E-02	.869599E-02	-.461447E-02	-.197095E-01	.856046E-02	0.
.698806E-02	.759477E-02	.636820E-02	-.530464E-02	-.160283E-01	.736713E-02	0.
0.	.622661E-02	.491138E-02	-.543045E-02	-.134759E-01	.636787E-02	0.
0.	0.	.393239E-02	-.533277E-02	-.116112E-01	.557624E-02	0.
0.	0.	0.	-.514341E-02	-.101927E-01	.494710E-02	0.
0.	0.	0.	0.	-.907912E-02	.443963E-02	0.
0.	0.	0.	0.	0.	.402351E-02	0.
0.	0.	0.	0.	0.	0.	0.







GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.129802E+01	.327346E+00	.161678E+00	.170663E+00	.173546E+00	.173783E+00	.173546E+00
-.335305E+00	-.725489E+00	-.460377E-01	-.602429E-01	-.721873E-01	-.729160E-01	-.731572E-01
-.349837E-02	-.272695E-01	0.	0.	0.	0.	0.
-.819006E-02	.102610E-02	0.	0.	0.	0.	0.
0.	-.281634E-02	-.626703E-03	0.	0.	0.	0.
0.	0.	0.	-.147801E-03	0.	0.	0.
.133263E-04	0.	0.	0.	-.120160E-04	0.	0.
.786401E-04	.166581E-05	0.	0.	0.	0.	0.
.235004E-02	0.	0.	0.	0.	0.	0.
.391629E-02	.219572E-02	0.	0.	0.	0.	0.
.154528E-02	.316036E-02	.776299E-03	0.	0.	0.	0.
.808572E-03	.148877E-02	.991961E-03	.280221E-03	0.	0.	0.
.847124E-04	.761250E-03	.541759E-03	.340519E-03	.102553E-03	0.	0.
.951205E-04	.764584E-04	.272535E-03	.197715E-03	.122216E-03	.375148E-04	0.
.886108E-04	.804637E-04	.265213E-04	.988521E-04	.720532E-04	.443822E-04	.138427E-04
0.	.824095E-04	.313893E-04	.450192E-05	.362421E-04	.266173E-04	.163324E-04
0.	0.	.292411E-04	.113404E-04	.348764E-03	.132665E-04	.982700E-05
0.	0.	0.	-.105699E-04	.415462E-05	.126717E-05	.489645E-05
0.	0.	0.	0.	.387030E-05	.152010E-05	0.
0.	0.	0.	0.	0.	.141607E-05	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.173598E+00	.173523E+00	.173601E+00	.173520E+00	.173474E+00	.173792E+00	.173282E+00
-.729445E-01	-.729958E-01	-.729364E-01	-.730241E-01	-.729420E-01	-.729148E-01	-.732299E-01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.508548E-05	0.	0.	0.	0.	0.	0.
.599415E-05	.187098E-05	0.	0.	0.	0.	0.
.361095E-05	.220448E-05	0.	0.	0.	0.	0.
.179900E-05	.132859E-05	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.173450E+00	.100629E+00	.498788E-02	.508340E-02	.649368E-02	.858333E-02	.118700E-01
-.726973E-01	-.728901E-01	0.	.844927E-02	.105462E-01	.135303E-01	.179805E-01
0.	0.	0.	0.	.849729E-02	.106215E-01	.136552E-01
0.	0.	0.	0.	0.	.889323E-02	.109415E-01
0.	0.	0.	0.	0.	0.	.910987E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.174762E-01	.282248E-01	.529688E-01	.131400E+00	.227869E+00	.266054E+00	.114741E+00
.250326E-01	.371566E-01	.604729E-01	.11812E+00	.124212E+00	.124515E-01	-.297242E-01
.182025E-01	.254622E-01	.380605E-01	.61766E-01	.451049E-01	-.497817E-01	0.
.142150E-01	.192740E-01	.277620E-01	.431941E-01	.277037E-01	-.376340E-01	0.
.116492E-01	.155210E-01	.219536E-01	.335300E-01	.199902E-01	-.288586E-01	0.
.987598E-02	.130209E-01	.182325E-01	.275442E-01	.156216E-01	-.232660E-01	0.
0.	.112397E-01	.156391E-01	.234444E-01	.128098E-01	-.194563E-01	0.
0.	0.	.13721E-01	.204403E-01	.108497E-01	-.167073E-01	0.
0.	0.	0.	.181400E-01	.940615E-02	-.146342E-01	0.
0.	0.	0.	0.	.829936E-02	-.130165E-01	0.
0.	0.	0.	0.	0.	-.117196E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 24, Atomic No. = 3, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.169083E+00	.160507E+00	.266426E+00	.304557E+00	.312061E+00	.326056E+00	.312657E+00
0.	.167511E+00	.156313E+00	.671347E-01	.299740E-01	.316689E-01	-.102473E-01
0.	0.	-.182478E-01	-.342977E-01	-.394603E-01	-.118861E-01	-.667057E-02
0.	0.	0.	-.291356E-01	-.149088E-02	.175044E-01	.956087E-02
0.	0.	0.	0.	.182412E-01	.682665E-02	.661779E-02
0.	0.	0.	0.	0.	.334931E-02	.506495E-02
0.	0.	0.	0.	0.	0.	.471833E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.263292E+00	.226986E+00	.192253E+00	.156167E+00	.351706E-01	-.856080E-02	-.285715E-01
-.499262E-01	-.834893E-01	-.921713E-01	-.109222E+00	-.709705E-01	-.224336E-01	-.423446E-02
.183397E-01	.454550E-01	.447825E-01	.444165E-01	.647338E-01	.564543E-02	.642798E-02
.200976E-02	.604297E-03	.339535E-01	.377315E-01	.308070E-01	.762899E-02	.481591E-02
.115735E-02	.150007E-02	.675304E-03	.385363E-03	.205683E-02	0.	0.
.222671E-02	.830069E-03	.964789E-03	.605861E-03	.787178E-03	.179252E-04	0.
.174041E-02	.161763E-02	.559284E-03	.603710E-03	.897808E-03	.696888E-04	.729106E-05
.162131E-02	.128198E-02	.113580E-02	.375336E-03	.683780E-03	.522049E-03	.395082E-03
0.	.119417E-02	.921775E-03	.782058E-03	.409382E-03	.361209E-03	.278526E-03
0.	0.	.858692E-03	.638349E-03	.862986E-03	.192817E-03	.206818E-03
0.	0.	0.	.594862E-03	.757483E-03	.400230E-03	.101540E-03
0.	0.	0.	0.	.705643E-03	.398651E-03	.203443E-03
0.	0.	0.	0.	0.	.371389E-03	.220642E-03
0.	0.	0.	0.	0.	0.	.205542E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.199031E+00	.772724E-01	.140408E-01	.148192E-01	.147487E-01	.147598E-01	.147341E-01
.315378E-02	.870431E-01	-.150594E-01	-.999275E-02	-.105579E-01	-.103892E-01	-.103993E-01
.107248E-01	.220669E-01	0.	0.	0.	0.	0.
-.217000E-02	-.147159E-02	0.	0.	0.	0.	0.
0.	.121766E-02	-.138801E-03	0.	0.	0.	0.
0.	0.	0.	.124858E-04	0.	0.	0.
0.	0.	0.	0.	.194729E-05	0.	0.
0.	0.	0.	0.	0.	0.	0.
.229047E-03	0.	0.	0.	0.	0.	0.
.145857E-03	.211787E-03	0.	0.	0.	0.	0.
.122353E-03	.123820E-03	.741893E-04	0.	0.	0.	0.
.578161E-04	.117802E-03	.406200E-04	.266838E-04	0.	0.	0.
.111347E-03	.539878E-04	.428485E-04	.142204E-04	.975232E-05	0.	0.
.125422E-03	.100493E-03	.192133E-04	.156349E-04	.514387E-05	.356571E-05	0.
.116460E-03	.116273E-03	.348584E-04	.695305E-05	.574493E-05	.187348E-05	.131548E-05
0.	.188315E-03	.412567E-04	.124889E-04	.254703E-05	.210467E-05	0.
0.	0.	.384332E-04	.149132E-04	.455771E-05	0.	0.
0.	0.	0.	.138926E-04	.546065E-05	.166551E-05	0.
0.	0.	0.	0.	.508695E-05	.199795E-05	0.
0.	0.	0.	0.	0.	.186121E-05	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.147553E-01	.146946E-01	.147541E-01	.147572E-01	.147177E-01	.147605E-01	.147100E-01
-.103942E-01	-.103969E-01	-.103768E-01	-.103966E-01	-.103912E-01	-.103677E-01	-.104015E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.147316E-01	.435945E-02	.467189E-02	.505983E-02	.645509E-02	.851557E-02	.117395E-01
-.103438E-01	-.103734E-01	0.	.834350E-02	.103790E-01	.132499E-01	.174721E-01
0.	0.	0.	0.	.825313E-02	.102271E-01	.129760E-01
0.	0.	0.	0.	0.	.825783E-02	.102147E-01
0.	0.	0.	0.	0.	0.	.838570E-02
0.	0.	0.	0.	0.	0.	0.

GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.171903E-01	.274650E-01	.901870E-01	.112288E+00	.164690E+00	.142386E+00	.173833E+00
.240083E-01	.347550E-01	.533264E-01	.78982E-01	.371476E-01	.290815E-01	.742496E-02
.169145E-01	.226940E-01	.307936E-01	.361511E-01	.116330E-01	.309871E-01	0.
.128982E-01	.165910E-01	.211812E-01	.202307E-01	.142717E-01	.150987E-01	0.
.103749E-01	.130130E-01	.160476E-01	.138959E-01	.134366E-01	.93749E-02	0.
.866483E-02	.106938E-01	.128994E-01	.103852E-01	.121797E-01	.662746E-02	0.
0.	.907857E-02	.107833E-01	.819415E-01	.109960E-01	.505529E-02	0.
0.	0.	.926632E-02	.671347E-01	.996803E-02	.405465E-02	0.
0.	0.	0.	.565503E-01	.409129E-02	.336873E-02	0.
0.	0.	0.	0.	.834377E-02	.287249E-02	0.
0.	0.	0.	0.	0.	.249849E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 24, Atomic No. = 3, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.843280E-01	.832150E-01	.129520E+00	.141037E+00	.141637E+00	.146043E+00	.121088E+00
0.	.458384E-01	.137995E-01	.230641E-01	.185954E-01	.103629E-01	.148912E-01
0.	0.	.236473E-01	.205653E-01	.247262E-01	.261924E-01	.260847E-01
0.	0.	0.	.104104E-01	.227697E-01	.105387E-02	.662875E-02
0.	0.	0.	0.	.308815E-02	.800499E-03	.806650E-02
0.	0.	0.	0.	0.	.107030E-02	.464302E-02
0.	0.	0.	0.	0.	0.	.432527E-02
0.	0.	0.	0.	0.	0.	0.

GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.973234E-01	.798477E-01	.437900E-01	.481267E-01	.628003E-02	.145571E-01	.135420E-01
.148860E-01	.721466E-01	.010422E-01	.509010E-01	.184562E-01	.763186E-02	.183729E-01
.865149E-02	.179698E-01	.202818E-01	.227820E-01	.971564E-02	.151825E-01	.659220E-02
.217274E-02	.856371E-03	.184560E-01	.177561E-01	.141401E-01	.819286E-03	.201865E-02
.121790E-02	.164950E-02	.117556E-02	.274967E-03	.152060E-02	0.	0.
.204121E-02	.877350E-03	.108014E-02	.136904E-02	.512822E-03	.153606E-04	0.
.159543E-02	.148297E-02	.589619E-03	.688598E-03	.222053E-02	.460494E-03	.624790E-05
.148624E-02	.117511E-02	.104118E-02	.394922E-03	.789288E-03	.123583E-02	.257613E-03
0.	.109469E-02	.844987E-03	.716909E-03	.432578E-03	.419790E-03	.640793E-03
0.	0.	.787159E-03	.585171E-03	.791095E-03	.206323E-03	.241084E-03
0.	0.	0.	.545124E-03	.694381E-03	.386889E-03	.109848E-03
0.	0.	0.	0.	.646860E-03	.365442E-03	.186495E-03
0.	0.	0.	0.	0.	.340432E-03	.202261E-03
0.	0.	0.	0.	0.	0.	.188419E-03
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.183557E-01	.856488E-02	.401980E-03	.419415E-03	.395462E-03	.387147E-03	.393018E-03
.401087E-01	.427207E-01	.122042E-02	.395622E-03	.418101E-03	.388779E-03	.379285E-03
.659108E-02	.156710E-01	0.	0.	0.	0.	0.
.377435E-03	.109150E-03	0.	0.	0.	0.	0.
0.	.888035E-04	.354735E-04	0.	0.	0.	0.
0.	0.	0.	.141299E-04	0.	0.	0.
0.	0.	0.	0.	.119546E-05	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.150630E-03	0.	0.	0.	0.	0.	0.
.321450E-03	.140798E-03	0.	0.	0.	0.	0.
.142813E-03	.261632E-03	.497962E-04	0.	0.	0.	0.
.629382E-04	.137640E-03	.828442E-04	.179773E-04	0.	0.	0.
.102047E-03	.590734E-04	.500995E-04	.285528E-04	.657951E-05	0.	0.
.114607E-03	.921219E-04	.211020E-04	.162855E-04	.102644E-04	.240689E-05	0.
.106764E-03	.106587E-03	.319545E-04	.764753E-05	.671952E-05	.372973E-05	0.
0.	.992922E-04	.378198E-04	.114485E-04	.290293E-05	.246180E-05	.137283E-05
0.	0.	.352310E-04	.136709E-04	.417803E-05	.102590E-05	0.
0.	0.	0.	.127353E-04	.500576E-05	.152677E-05	0.
0.	0.	0.	0.	.466318E-05	.183151E-05	0.
0.	0.	0.	0.	0.	.170617E-05	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.394002E-03	.387408E-03	.391878E-03	.387378E-03	.391275E-03	.383399E-03	.397041E-03
.405529E-03	.387247E-03	.380703E-03	.384966E-03	.371625E-03	.391427E-03	.374223E-03
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.393942E-03	.679493E-05	.484918E-02	.502464E-02	.639753E-02	.841470E-02	.115458E-01
-.381179E-03	-.387257E-03	0.	-.818630E-02	.101311E-01	.128356E-01	.167253E-01
0.	0.	0.	0.	.789377E-02	.964997E-02	.119855E-01
0.	0.	0.	0.	0.	.762559E-02	.917073E-02
0.	0.	0.	0.	0.	0.	.735400E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.147481E-01	.263544E-01	.462285E-01	.875857E-01	.989489E-01	.437374E-01	.137540E-01
.225185E-01	.313285E-01	.435659E-01	.411974E-01	-.251224E-01	-.359648E-01	-.129159E-02
.150722E-01	.188385E-01	.212701E-01	.523048E-02	-.345100E-01	.257486E-02	0.
.110397E-01	.129246E-01	.128098E-01	-.236428E-02	-.253817E-01	.937614E-02	0.
.859546E-02	.963524E-02	.869599E-02	-.461447E-02	-.197095E-01	.856046E-02	0.
.648886E-02	.759477E-02	.636820E-02	-.530464E-02	-.160283E-01	.736713E-02	0.
0.	.622681E-02	.491138E-02	-.543095E-02	-.134759E-01	.636787E-02	0.
0.	0.	.393239E-02	-.533277E-02	-.118112E-01	.557624E-02	0.
0.	0.	0.	-.514391E-02	-.101927E-01	.494718E-02	0.
0.	0.	0.	0.	-.907912E-02	.443963E-02	0.
0.	0.	0.	0.	0.	.402351E-02	0.
0.	0.	0.	0.	0.	0.	0.







GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.233016E-01	.374331E-01	.766250E-01	.175407E+00	.303825E+00	.354739E+00	.152907E+00
.33768E-01	.495421E-01	.806505E-01	.149083E+00	.165616E+00	.160021E-01	-.396322E-01
.242700E-01	.339495E-01	.507473E-01	.823555E-01	.601451E-01	-.663755E-01	0.
.149534E-01	.256987E-01	.370148E-01	.575988E-01	.364302E-01	-.501786E-01	0.
.155323E-01	.206946E-01	.292714E-01	.447066E-01	.766536E-01	-.384781E-01	0.
.131800E-01	.17312E-01	.243100E-01	.367295E-01	.208208E-01	-.310213E-01	0.
0.	.149863E-01	.208522E-01	.312505E-01	.170797E-01	-.259417E-01	0.
0.	0.	.182961E-01	.272548E-01	.144667E-01	-.222764E-01	0.
0.	0.	0.	.241806E-01	.129415E-01	-.195123E-01	0.
0.	0.	0.	0.	.110658E-01	-.173553E-01	0.
0.	0.	0.	0.	0.	-.156267E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 11, Atomic No. = 4, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.205038E+00	.221178E+00	.288533E+00	.304936E+00	.307002E+00	.327317E+00	.353384E+00
0.	.148517E+00	.944671E-01	.418311E-01	.284740E-01	.244281E-01	.495025E-01
0.	0.	-.362314E-02	-.806023E-02	.166719E-01	.301579E-01	.441557E-01
0.	0.	0.	.861901E-02	.274073E-01	.180316E-01	.134235E-01
0.	0.	0.	0.	.235239E-01	.103055E-01	.166700E-01
0.	0.	0.	0.	0.	.149193E-01	.298272E-01
0.	0.	0.	0.	0.	0.	.238540E-01
0.	0.	0.	0.	0.	0.	0.

GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.472705E+00	.518782E+00	.223003E+00	.296203E+00	.261949E+00	.233131E+00	.739166E-01
.193124E-01	.131183E-01	-.707923E-01	-.107049E+00	.126105E+00	-.600549E-01	.133922E-02
.908131E-02	.283880E-01	.884625E-01	.162523E+00	.646880E-01	0.	0.
.605756E-02	.180296E-01	.111928E-01	.716870E-02	.153823E-01	0.	0.
.687329E-02	.761825E-02	.128034E-01	.166494E-01	.190342E-01	-.152602E-03	0.
.135988E-01	.113772E-01	.111123E-01	.163284E-01	.405572E-01	.174631E-01	.103963E-03
.116014E-01	.117054E-01	.137193E-01	.136089E-01	.348034E-01	.344354E-01	.114817E-01
.171617E-02	.405830E-02	.748816E-02	.135434E-01	.275068E-01	.268741E-01	.214286E-01
0.	.173654E-02	.399919E-02	.598363E-02	.200854E-01	.201202E-01	.156513E-01
0.	0.	.204054E-02	.418508E-02	.103276E-01	.118779E-01	.113096E-01
0.	0.	0.	0.	.711752E-02	.668031E-02	.603224E-02
0.	0.	0.	0.	.341930E-02	.448662E-02	.348364E-02
0.	0.	0.	0.	0.	.209544E-02	.230244E-02
0.	0.	0.	0.	0.	0.	.105673E-02
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.101310E+00	.584446E-01	.541957E-01	.497626E-01	.494448E-01	.502601E-01	.500269E-01
-.513497E-01	-.755335E-01	-.378114E-01	-.373804E-01	-.348090E-01	-.362961E-01	-.364165E-01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.519904E-04	0.	0.	0.	0.	0.	0.
.609533E-02	.286626E-04	0.	0.	0.	0.	0.
.108239E-01	.402330E-02	.315479E-05	0.	0.	0.	0.
.756763E-02	.687832E-02	.663525E-03	.443131E-06	0.	0.	0.
.530107E-02	.465942E-02	.118140E-02	.959206E-04	0.	0.	0.
.276915E-02	.321154E-02	.728872E-03	.157771E-03	0.	0.	0.
.157364E-02	.164398E-02	.502478E-03	.103502E-03	.133134E-04	0.	0.
.109985E-02	.922744E-03	.250332E-03	.729373E-04	.218445E-04	.181154E-05	0.
.467620E-03	.599628E-03	.139226E-03	.351940E-04	.142842E-04	.296945E-05	.247280E-06
0.	.27194E-03	.900084E-04	.195070E-04	.104944E-04	.194007E-05	.48835E-06
0.	0.	.483248E-04	.125853E-04	.483908E-05	.152700E-05	.264144E-06
0.	0.	0.	.562712E-05	.267898E-05	.656163E-06	.231820E-06
0.	0.	0.	0.	.172730E-05	.362995E-06	0.
0.	0.	0.	0.	.771680E-06	.234067E-06	0.
0.	0.	0.	0.	0.	.104494E-06	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.500072E-01	.499548E-01	.516626E-01	.542038E-01	.451446E-01	.535004E-01	.488604E-01
-.362663E-01	-.362839E-01	-.362524E-01	-.380442E-01	-.408749E-01	-.324784E-01	-.407851E-01
0.	0.	0.	0.	0.	0.	0.





GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.316950E-03	-.328886E-03	.524530E-03	-.351951E-03	-.134797E-02	-.313816E-02	-.188758E-03
-.139396E-02	-.139583E-02	-.139899E-02	-.236153E-02	-.474638E-03	-.677827E-03	.114293E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.244210E-03	-.399603E-03	.539891E-02	.669952E-02	.853804E-02	.112196E-01	.153944E-01
-.149198E-02	-.141933E-02	0.	.189191E-01	.135882E-01	.171142E-01	.223005E-01
0.	0.	0.	0.	.128666E-01	.128666E-01	.159806E-01
0.	0.	0.	0.	.105250E-01	.101675E-01	.122276E-01
0.	0.	0.	0.	0.	0.	.980533E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.223574E-01	.351397E-01	.616348E-01	.116781E-00	.129265E-00	.583165E-01	.183386E-01
.300247E-01	.017687E-01	.588879E-01	.349305E-01	-.334965E-01	-.479531E-01	-.172212E-02
.009633E-01	.251180E-01	.283602E-01	.697315E-02	-.460134E-01	.343315E-02	0.
.147195E-01	.172328E-01	.170797E-01	-.315235E-02	-.338423E-01	.125015E-01	0.
.114604E-01	.128470E-01	.115947E-01	-.015329E-02	-.262794E-01	.114139E-01	0.
.931741E-02	.181264E-01	.849893E-02	-.707286E-02	-.213710E-01	.982284E-02	0.
0.	.838215E-02	.654850E-02	-.724127E-02	-.179879E-01	.849849E-02	0.
0.	0.	.524318E-02	-.711036E-02	-.154816E-01	.743498E-02	0.
0.	0.	0.	-.685954E-02	-.135903E-01	.659614E-02	0.
0.	0.	0.	0.	-.121055E-01	.391951E-02	0.
0.	0.	0.	0.	0.	.536467E-02	0.
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 25, Atomic No. = 5, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.287624E+00	.293113E+00 .202276E+00	.405209E+00 .176285E+00 -.348079E-02	.439940E+00 .988533E-01 -.167041E-01 -.197216E-01	.449792E+00 .707074E-01 -.267131E-01 -.103449E-01	.464508E+00 .790872E-01 -.147201E-01	.477235E+00 .454704E-01 -.169318E-01
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.449945E+00 -.106122E-01	.494704E+00 -.777534E-02 -.473679E-01	.444565E+00 -.163092E+00 -.160424E+00	.461809E+00 -.795748E-01 -.192932E+00	.522711E+00 -.295900E+00 -.154532E+00	.806383E+00 -.222223E+00	.947169E+00 -.183662E+00
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.703075E+00 -.348030E+00	.478216E+00 -.434586E+00	.483917E+00 -.215609E+00	.484678E+00 -.215163E+00	.484141E+00 -.215955E+00	.485039E+00 -.215502E+00	.483921E+00 -.216384E+00
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.484642E+00 -.215321E+00	.484444E+00 -.215945E+00	.484442E+00 -.215806E+00	.484638E+00 -.215729E+00	.484450E+00 -.216005E+00	.484992E+00 -.215770E+00	.483906E+00 -.216304E+00
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.484198E+00 -.215153E+00	.268636E+00 -.215484E+00	.681188E-02	.847233E-02 .140821E-01	.108228E-01 .175769E-01 .141621E-01	.143056E-01 .225505E-01 .177025E-01 .144887E-01	.197833E-01 .299676E-01 .227587E-01 .182358E-01 .151831E-01
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.291276E-01 .417210E-01 .303374E-01 .236917E-01 .194154E-01 .164600E-01	.470413E-01 .619277E-01 .426369E-01 .321234E-01 .258693E-01 .717016E-01 .187328E-01	.882813E-01 .100788E+00 .634341E-01 .482710E-01 .385893E-01 .303874E-01 .280652E-01 .228702E-01	.219334E+00 .186354E+00 .102944E+00 .719885E-01 .558833E-01 .459049E-01 .390707E-01 .340674E-01 .302333E-01	.379781E+00 .207020E+00 .751814E-01 .481728E-01 .333170E-01 .260360E-01 .213496E-01 .180828E-01 .154769E-01 .138323E-01	.443424E+00 .207526E-01 -.829694E-01 -.627233E-01 -.480977E-01 -.387767E-01 -.324271E-01 -.278455E-01 -.243993E-01 -.216942E-01 -.195327E-01	.191234E+00 -.495483E-01

Neutron ID = 25, Atomic No. 5, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .201849E+00 0. 0. 0.	0. 0. 0. .209914E+00 .111238E+00 0. 0. 0.	0. 0. 0. .274649E+00 .744095E-01 -.199428E-01 0. 0.	0. 0. 0. .291843E+00 .221053E-01 -.252394E-01 .925503E-03 0.	0. 0. 0. .284762E+00 .127883E-01 -.238668E-04 .659203E-02 0.	0. 0. 0. .292701E+00 .188454E-01 .616240E-02 0. 0.	0. 0. 0. .279144E+00 .246545E-01 .753131E-02 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .260998E+00 .454856E-02 0. 0.	0. 0. 0. .266345E+00 -.686513E-02 .236768E-01 0.	0. 0. 0. .218300E+00 .100012E-01 .858700E-01 0.	0. 0. 0. .180894E+00 -.712519E-01 .111478E+00 0.	0. 0. 0. .191764E+00 -.291184E-02 .867621E-01 0.	0. 0. 0. .152173E+00 .221754E-01 0. 0.	0. 0. 0. .146026E+00 -.634845E-01 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .448859E-01 -.354847E-01 0.	0. 0. 0. .279616E-01 -.367301E-01 0.	0. 0. 0. .281086E-01 -.198997E-01 0.	0. 0. 0. .281942E-01 -.198553E-01 0.	0. 0. 0. .279317E-01 -.199718E-01 0.	0. 0. 0. .279988E-01 -.197924E-01 0.	0. 0. 0. .279215E-01 -.198394E-01 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .279871E-01 -.198239E-01 0.	0. 0. 0. .279093E-01 -.197852E-01 0.	0. 0. 0. .280907E-01 -.197709E-01 0.	0. 0. 0. .279677E-01 -.198348E-01 0.	0. 0. 0. .279813E-01 -.198353E-01 0.	0. 0. 0. .280715E-01 -.197996E-01 0.	0. 0. 0. .262089E-01 -.198650E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .279598E-01 -.199556E-01 0. 0. 0.	0. 0. 0. .413532E-02 -.197454E-01 0.	0. 0. 0. .678648E-02 0. 0.	0. 0. 0. .843306E-02 .139058E-01 0.	0. 0. 0. .107585E-01 .172983E-01 .137552E-01 0.	0. 0. 0. .141926E-01 .220831E-01 .170452E-01 .137631E-01 0.	0. 0. 0. .195658E-01 .291201E-01 .216233E-01 .170245E-01 .139762E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .286504E-01 .400139E-01 .281909E-01 .214969E-01 .172915E-01 .144414E-01 0. 0. 0. 0.	0. 0. 0. .457758E-01 .579251E-01 .379234E-01 .276517E-01 .216884E-01 .178230E-01 .151318E-01 0. 0. 0. 0.	0. 0. 0. .836461E-01 .888773E-01 .513226E-01 .353819E-01 .267459E-01 .214991E-01 .179722E-01 .154439E-01 0. 0. 0. 0.	0. 0. 0. .187143E+00 .131649E+00 .569185E-01 .337175E-01 .231549E-01 .173087E-01 .136569E-01 .111844E-01 .942634E-02 0. 0. 0.	0. 0. 0. .274483E+00 .619127E-01 -.193884E-01 -.237862E-01 -.223944E-01 -.202995E-01 -.183267E-01 -.166134E-01 -.151522E-01 -.139063E-01 0. 0. 0.	0. 0. 0. .237310E+00 -.484692E-01 -.516452E-01 -.251644E-01 -.156330E-01 -.110454E-01 -.842549E-02 -.675775E-02 -.561455E-02 -.478749E-02 -.416415E-02 0. 0. 0.	0. 0. 0. .289722E+00 -.123749E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 25, Atomic No. = 5, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.991430E-01	.106134E+00	.130534E+00	.132708E+00	.128116E+00	.125206E+00	.119327E+00
0.	.322223E-01	-.553089E-02	.243213E-03	.128590E-01	.119717E-01	.901377E-02
0.	0.	.401008E-02	.155446E-01	.954043E-02	-.338348E-04	.589722E-03
0.	0.	0.	.680544E-02	-.281831E-02	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.999843E-01	.920122E-01	.643441E-01	.291358E-01	.521174E-01	.122495E-01	.185432E-02
.760755E-02	.166228E-01	.214101E-01	-.131714E-01	-.223060E-01	-.521150E-01	-.153664E-01
0.	-.454538E-02	-.237754E-01	-.409811E-01	-.270004E-01	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.219444E-03	.389270E-03	.433288E-03	.319182E-03	.284515E-03	.369080E-03	.296034E-03
-.694149E-03	.259237E-03	-.271677E-03	-.310177E-03	-.227644E-03	-.275506E-03	-.339799E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.376225E-03	.285536E-03	.427455E-03	.282004E-03	.401803E-03	.416048E-03	.448927E-03
-.328675E-03	-.304500E-03	-.277367E-03	-.340604E-03	-.279917E-03	-.350322E-03	-.339243E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.378303E-03	.550598E-05	.674883E-02	.837440E-02	.106625E-01	.140245E-01	.192430E-01
-.325820E-03	-.294119E-03	0.	.136438E-01	.168852E-01	.213927E-01	.278756E-01
0.	0.	0.	0.	.131563E-01	.160833E-01	.199758E-01
0.	0.	0.	0.	0.	.127893E-01	.152845E-01
0.	0.	0.	0.	0.	0.	.122567E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.279466E-01	.439246E-01	.770475E-01	.145976E+00	.161581E+00	.728954E-01	.229233E-01
.375308E-01	.522108E-01	.726044E-01	.686631E-01	-.418707E-01	-.599413E-01	-.215265E-02
.251203E-01	.313975E-01	.354502E-01	.871747E-02	-.575167E-01	.429144E-02	0.
.183994E-01	.215418E-01	.213496E-01	-.394044E-02	-.423029E-01	.156269E-01	0.
.143258E-01	.160587E-01	.144933E-01	-.769161E-02	-.328492E-01	.142674E-01	0.
.116468E-01	.126580E-01	.106137E-01	-.84197E-02	-.284713E-01	.122746E-01	0.
0.	.188563E-02	-.905154E-02	-.224549E-01	-.224549E-01	.106131E-01	0.
0.	.1655398E-02	-.888745E-02	-.193520E-01	.929373E-02	0.	0.
0.	0.	-.857318E-02	-.169879E-01	.824517E-02	0.	0.
0.	0.	0.	-.151319E-01	.739939E-02	0.	0.
0.	0.	0.	0.	.670584E-02	0.	0.
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 26, Atomic No. = 5, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .216440E+00 0. 0. 0.	0. 0. 0. .226692E+00 .139130E+00 0. 0. 0.	0. 0. 0. .312793E+00 .120471E+00 -.531310E-02 0. 0.	0. 0. 0. .354000E+00 .671207E-01 -.160000E-01 -.122701E-01 0.	0. 0. 0. .394884E+00 .490893E-01 -.181674E-01 -.464985E-02 0.	0. 0. 0. .493892E+00 .790015E-01 -.851948E-02 0. 0.	0. 0. 0. .567618E+00 -.518964E-01 -.142906E-01 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .484359E+00 -.211815E-01 0. 0.	0. 0. 0. .551647E+00 -.733947E-01 -.435773E-01 0.	0. 0. 0. .493338E+00 -.238128E+00 -.118433E+00 0.	0. 0. 0. .518040E+00 -.151659E+00 -.172547E+00 0.	0. 0. 0. .411509E+00 -.344917E+00 -.126296E+00 0.	0. 0. 0. .579864E+00 -.163918E+00 0. 0.	0. 0. 0. .893164E+00 -.127898E+00 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .563412E+00 -.303649E+00 0.	0. 0. 0. .444127E+00 -.351631E+00 0.	0. 0. 0. .451189E+00 -.203125E+00 0.	0. 0. 0. .452271E+00 -.202205E+00 0.	0. 0. 0. .451651E+00 -.203406E+00 0.	0. 0. 0. .452360E+00 -.202786E+00 0.	0. 0. 0. .451777E+00 -.203533E+00 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .452037E+00 -.202932E+00 0.	0. 0. 0. .451860E+00 -.203119E+00 0.	0. 0. 0. .452109E+00 -.202988E+00 0.	0. 0. 0. .452104E+00 -.203257E+00 0.	0. 0. 0. .451928E+00 -.203352E+00 0.	0. 0. 0. .452687E+00 -.203114E+00 0.	0. 0. 0. .451663E+00 -.203896E+00 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .451289E+00 -.202733E+00 0. 0. 0. 0.	0. 0. 0. .248804E+00 -.202454E+00 0. 0. 0. 0.	0. 0. 0. .401180E-02 0. 0. 0. 0.	0. 0. 0. .847233E-02 .140821E-01 0. 0. 0.	0. 0. 0. .108228E-01 .175769E-01 .141621E-01 0. 0.	0. 0. 0. .143056E-01 .225505E-01 .177025E-01 .144887E-01 0.	0. 0. 0. .197833E-01 .299676E-01 .227587E-01 .182358E-01 .151831E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .291270E-01 .417210E-01 .303374E-01 .236917E-01 .194154E-01 .164600E-01 0. 0. 0. 0.	0. 0. 0. .470413E-01 .619277E-01 .424369E-01 .321234E-01 .258683E-01 .217016E-01 .187328E-01 0. 0. 0. 0.	0. 0. 0. .882813E-01 .100788E+00 .634341E-01 .462710E-01 .365893E-01 .303874E-01 .260652E-01 .228702E-01 0. 0. 0. 0.	0. 0. 0. .219334E+00 .186354E+00 .1079. E+00 .719985E-01 .558833E-01 .459064E-01 .390707E-01 .340672E-01 .302333E-01 0. 0. 0. 0.	0. 0. 0. .379781E+00 .207020E+00 .751814E-01 .461728E-01 .333170E-01 .260360E-01 .213498E-01 .180828E-01 .156769E-01 .138323E-01 0. 0. 0.	0. 0. 0. .443424E+00 .207526E-01 -.829694E-01 -.627233E-01 -.480977E-01 -.387767E-01 -.324271E-01 -.278455E-01 -.243903E-01 -.216942E-01 -.195327E-01 0. 0.	0. 0. 0. .191234E+00 -.495403E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 26, Atomic No. = 5, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.191156E+00	.161427E+00	.212140E+00	.233101E+00	.252634E+00	.308141E+00	.333089E+00
0.	.739833E-01	.486982E-01	.123070E-01	.987196E-02	.251730E-01	.311050E-01
0.	0.	-.147707E-01	-.157225E-01	.226091E-02	.427594E-02	.665657E-02
0.	0.	0.	-.244302E-02	.356368E-02	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.271192E+00	.294659E+00	.229250E+00	.190452E+00	.186613E+00	.111589E+00	.129984E+00
.112822E-01	.835663E-02	.309213E-01	-.515160E-01	.105708E-01	.262600E-01	-.491075E-01
0.	.243101E-01	.703411E-01	.108862E+00	.766271E-01	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.392618E-01	.238337E-01	.240045E-01	.242573E-01	.240083E-01	.240419E-01	.240519E-01
-.534981E-02	-.332685E-01	-.170357E-01	-.169270E-01	-.172802E-01	-.169695E-01	-.170379E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.241478E-01	.240388E-01	.240491E-01	.239247E-01	.239638E-01	.240805E-01	.241654E-01
-.170363E-01	-.170584E-01	-.169939E-01	-.170213E-01	-.170053E-01	-.169750E-01	-.171003E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.242132E-01	.697618E-02	.678648E-02	.843306E-02	.107585E-01	.141926E-01	.195658E-01
-.170607E-01	-.172045E-01	0.	.139058E-01	.172983E-01	.220831E-01	.291201E-01
0.	0.	0.	0.	.137552E-01	.170452E-01	.216233E-01
0.	0.	0.	0.	0.	.137631E-01	.170245E-01
0.	0.	0.	0.	0.	0.	.139762E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.286504E-01	.457750E-01	.836461E-01	.187143E+00	.274483E+00	.237310E+00	.289722E+00
.480139E-01	.579251E-01	.888773E-01	.131649E+00	.619127E-01	-.484692E-01	.123749E-01
.281909E-01	.378234E-01	.513226E-01	.569185E-01	-.193884E-01	-.516452E-01	0.
.214969E-01	.276517E-01	.353019E-01	.337178E-01	-.237862E-01	-.251644E-01	0.
.172915E-01	.216884E-01	.267459E-01	.231548E-01	-.223944E-01	-.156330E-01	0.
.144414E-01	.178230E-01	.214991E-01	.173087E-01	-.202995E-01	-.110454E-01	0.
0.	.151310E-01	.179722E-01	.136564E-01	-.183267E-01	-.842549E-02	0.
0.	0.	.154439E-01	.111844E-01	-.166134E-01	-.675775E-02	0.
0.	0.	0.	.942634E-02	-.151522E-01	-.561455E-02	0.
0.	0.	0.	0.	-.139063E-01	-.478744E-02	0.
0.	0.	0.	0.	0.	-.416415E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 26, Atomic No. = 5, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .737700E-01 0. 0. 0. 0.	0. 0. 0. .009740E-01 .200492E-01 0. 0. 0.	0. 0. 0. .991600E-01 -.089600E-02 .571839E-02 0. 0.	0. 0. 0. .105134E+00 .272323E-02 .124524E-01 .283440E-02 0.	0. 0. 0. .111600E+00 .110361E-01 .407612E-02 -.230413E-02 0.	0. 0. 0. .131455E+00 .144219E-01 -.799532E-03 0. 0.	0. 0. 0. .145533E+00 .102211E-01 -.552717E-03 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .101207E+00 .793029E-02 0. 0.	0. 0. 0. .102402E+00 .211771E-01 -.722027E-02 0.	0. 0. 0. .644806E-01 .218065E-01 -.263392E-01 0.	0. 0. 0. .276777E-01 -.952777E-02 -.405227E-01 0.	0. 0. 0. .466095E-01 -.261336E-01 -.307771E-01 0.	0. 0. 0. .962864E-02 -.377211E-01 0. 0.	0. 0. 0. .109242E-01 -.125048E-01 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .792169E-03 -.2949561E-02 0.	0. 0. 0. .223666E-03 -.732396E-03 0.	0. 0. 0. .105355E-03 -.178674E-03 0.	0. 0. 0. .214802E-03 -.016101E-04 0.	0. 0. 0. .142254E-03 -.210564E-03 0.	0. 0. 0. .145924E-03 -.763015E-04 0.	0. 0. 0. .337258E-03 -.134534E-03 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .342138E-03 -.294488E-03 0.	0. 0. 0. .182443E-03 -.225335E-03 0.	0. 0. 0. .177303E-03 -.110222E-03 0.	0. 0. 0. .622091E-04 -.122230E-03 0.	0. 0. 0. .254057E-03 -.110507E-03 0.	0. 0. 0. .156134E-03 -.230105E-03 0.	0. 0. 0. .319031E-03 -.148256E-03 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .117980E-03 -.107844E-03 0. 0. 0. 0.	0. 0. 0. .382215E-05 -.020649E-04 0.	0. 0. 0. .674863E-02 0. 0. 0.	0. 0. 0. .837440E-02 .136438E-01 0. 0.	0. 0. 0. .106625E-01 .160852E-01 .131563E-01 0.	0. 0. 0. .140245E-01 .213927E-01 .160833E-01 .127093E-01 0.	0. 0. 0. .192430E-01 .278756E-01 .199758E-01 .152845E-01 .122567E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .279466E-01 .375308E-01 .251203E-01 .183994E-01 .143258E-01 .116468E-01 0. 0. 0. 0. 0.	0. 0. 0. .439246E-01 .522108E-01 .313975E-01 .215410E-01 .160807E-01 .126560E-01 -.103777E-01 0. 0. 0. 0. 0.	0. 0. 0. .770475E-01 .726094E-01 .354502E-01 .213496E-01 .144933E-01 .106137E-01 .018563E-02 .655398E-02 0. 0. 0. 0. 0.	0. 0. 0. .145976E+00 .686631E-01 .871747E-02 .394044E-02 -.769161E-02 -.88107E-02 -.905154E-02 -.888745E-02 -.857318E-02 0. 0. 0. 0.	0. 0. 0. .161581E+00 -.418707E-01 -.575167E-01 -.423029E-01 -.328492E-01 -.267130E-01 -.224599E-01 -.193520E-01 -.169879E-01 -.151319E-01 0. 0. 0.	0. 0. 0. .728956E-01 -.599413E-01 .429144E-02 .156269E-01 .142674E-01 .122706E-01 .106131E-01 .929373E-02 .824517E-02 .739939E-02 .670564E-02 0. 0. 0.	0. 0. 0. .229233E-01 -.215265E-02 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

CARBON (C<sup>12</sup>)

Neutron ID = 21, Atomic No. = 6, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.134000E+00 0. .123781E+01 .308526E+00 0. 0. 0. 0. 0. 0.	.143882E+00 0. .115403E+01 .278121E+00 .221358E+00 0. 0. 0. 0. 0. 0.	.162585E+00 0. .124878E+01 .408637E+00 .182058E+00 .880832E-01 0. 0. 0. 0. 0.	.164478E+00 0. .121502E+01 .433318E+00 .224480E+00 .115734E+00 .907140E-01 0. 0. 0. 0.	.775512E-01 0. .122516E+01 .376737E+00 .242105E+00 .111226E+00 .114085E+00 .926046E-01 0. 0. 0.	.725738E-02 0. .112116E+01 .378643E+00 .323894E+00 .649018E-01 .117485E+00 .932167E-01 .121029E+00 0. 0. 0.	-.611070E-06 0. .161342E+01 .914047E+00 .458117E+00 .166715E+00 .224119E+00 .162439E+00 .197706E+00 .152251E+00 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
-.600000E-05 0. .206469E+01 .781123E+00 .535956E+00 .921434E-02 .159934E+00 .766635E-01 .412812E-01 .924666E-02 .937137E-02 0. 0. 0. 0. 0.	-.600000E-06 0. .161812E+01 .564277E+00 .109183E+01 .134239E+00 .469046E-01 .929374E-01 .304420E-01 .684442E-02 .670402E-02 .676491E-02 0. 0. 0. 0. 0.	-.430000E-05 0. .182253E+01 .729543E+00 .974259E+00 .191738E+00 0. .718445E-01 .184011E-01 .172500E-01 .493635E-02 .466976E-02 .463005E-02 0. 0. 0. 0. 0.	.700000E-05 0. .204357E+01 .436351E+00 .101768E+01 .755846E-01 0. .645381E-03 .793730E-01 .128155E-02 .762929E-02 .323304E-02 .312886E-02 .310849E-02 0. 0. 0.	-.300000E-05 0. .255389E+01 .173640E+01 .120721E+01 .753103E-01 0. .105657E-01 .745693E-01 .457572E-02 .290900E-02 .357013E-02 .342898E-02 .336462E-02 0. 0. 0.	-.400000E-05 0. .318045E+01 .224998E+01 .817493E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	-.710543E-14 0. .369897E+01 .267056E+01 .930474E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
-.100000E-04 0. .409775E+01 .280678E+01 .102641E+01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	-.700000E-05 0. .444513E+01 .372711E+01 .129098E+01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	-.600000E-05 0. .468073E+01 .393428E+01 .718027E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.400000E-05 0. .477212E+01 .401189E+01 .746486E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	-.300000E-05 0. .480044E+01 .403805E+01 .760226E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.500000E-05 0. .481063E+01 .404456E+01 .762393E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.170000E-04 0. .482115E+01 .405590E+01 .766065E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.390000E-04 0. .482594E+01 .405894E+01 .765233E+00 0. 0. 0. 0. 0.	.580000E-04 0. .483015E+01 .406292E+01 .766961E+00 0. 0. 0. 0. 0.	.880000E-04 0. .483449E+01 .406576E+01 .767172E+00 0. 0. 0. 0. 0.	.149000E-03 0. .483886E+01 .406833E+01 .768642E+00 0. 0. 0. 0. 0.	.247000E-03 0. .484321E+01 .407431E+01 .770301E+00 0. 0. 0. 0. 0.	.404000E-03 0. .484787E+01 .407486E+01 .768653E+00 0. 0. 0. 0. 0.	.962000E-03 0. .485075E+01 .408182E+01 .772606E+00 0. 0. 0. 0. 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
.108400E-02 0. .485120E+01 .408103E+01 .766268E+00 0. 0. 0. 0. 0.	.309000E-02 0. .485309E+01 .408500E+01 .769086E+00 0. 0. 0. 0. 0.	.800509E-01 0. .397670E+00 .818938E-02 0. 0. 0. 0. 0.	.731348E-01 0. .417319E+00 .101904E-01 .170049E-01 0. 0. 0. 0. 0.	.653771E-01 0. .441682E+00 .130261E-01 .212607E-01 .172415E-01 0. 0. 0. 0.	.566561E-01 0. .472715E+00 .172347E-01 .273437E-01 .216431E-01 .178303E-01 0. 0. 0.	.46803E-01 0. .513647E+00 .238712E-01 .364760E-01 .280052E-01 .226286E-01 .189663E-01 0.





GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.257453E-01 -.172716E-01 0.	.256637E-01 -.172826E-01 0.	.256412E-01 -.173337E-01 0.	.257344E-01 -.173070E-01 0.	.256508E-01 -.174310E-01 0.	.258285E-01 -.173939E-01 0.	.257954E-01 -.174418E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.257342E-01 -.174151E-01 0. 0. 0. 0. 0.	.823230E-02 -.173741E-01 0. 0. 0. 0. 0.	.814377E-02 0. 0. 0. 0. 0. 0.	.101197E-01 .106870E-01 0. 0. 0. 0. 0.	.129102E-01 .207580E-01 .165063E-01 0. 0. 0. 0.	.170311E-01 .264998E-01 .204543E-01 .165157E-01 0. 0. 0.	.234789E-01 .349442E-01 .259480E-01 .204294E-01 .147714E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.343805E-01 .480166E-01 .338291E-01 .257963E-01 .207498E-01 .173297E-01 0. 0. 0. 0. 0. 0.	.549300E-01 .695101E-01 .453881E-01 .331828E-01 .240261E-01 .213876E-01 .181571E-01 0. 0. 0. 0. 0. 0.	.100375E+00 .106653E+00 .615871E-01 .423623E-01 .328951E-01 .257989E-01 .215667E-01 .185328E-01 0. 0. 0. 0. 0. 0.	.224571E+00 .157978E+00 .683022E-01 .404614E-01 .277918E-01 .207704E-01 .163883E-01 .134279E-01 .113117E-01 0. 0. 0. 0.	.329379E+00 .742952E-01 .232661E-01 .285435E-01 .268732E-01 .243594E-01 .219920E-01 .199361E-01 .181826E-01 .168875E-01 0. 0. 0. 0.	.284772E+00 .581630E-01 -.619743E-01 -.301973E-01 -.187596E-01 -.132549E-01 -.101106E-01 -.810930E-02 -.673746E-02 -.574497E-02 -.499698E-02 0. 0. 0. 0.	.347667E+00 .148499E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 21, Atomic No. = 6, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.896330E-01 0. 0. 0. 0. 0. 0.	.837668E-01 .159769E-01 0. 0. 0. 0. 0.	.105589E+00 -.139482E-01 .149850E-01 0. 0. 0. 0.	.461370E-01 .111640E-01 .144515E-01 -.495670E-02 0. 0. 0.	.786677E-01 .156079E-01 .120152E-02 -.147303E-01 .275690E-02 0. 0.	.553468E-01 .198200E-01 -.452691E-02 -.249587E-02 .111682E-01 -.299459E-02 0. 0.	.678675E-01 .242817E-01 -.117184E-01 .833117E-03 -.494015E-03 -.299886E-03 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.126894E+00 .216858E-02 .268804E-02 -.538871E-02 -.195161E-02 0. 0. 0. 0.	.314006E-01 -.223752E-01 -.432718E-01 -.447730E-02 .886956E-02 0. 0. 0. 0.	.187220E-01 -.133490E-01 -.516193E-01 0. .422803E-02 -.319086E-02 0. 0. 0. 0.	-.324600E-04 -.716671E-04 -.208476E-01 0. .315013E-03 -.515246E-02 0. 0. 0. 0.	.555332E-02 .512990E-02 -.196775E-01 0. 0. -.492758E-03 .360295E-02 0. 0.	.260150E-02 -.337060E-02 0. 0. 0. .140131E-03 -.889313E-03 0. 0.	.154182E-02 -.168303E-02 0. 0. 0. 0. 0. 0. 0. 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.207716E-02 -.737847E-03 0. 0. 0. 0. 0.	.737124E-03 -.146947E-02 0. 0. 0. 0. 0.	.410251E-03 -.263654E-03 0. 0. 0. 0. 0.	.324734E-03 -.170170E-03 0. 0. 0. 0. 0.	.181342E-03 -.209896E-03 0. 0. 0. 0. 0.	.449375E-03 .123205E-04 0. 0. 0. 0. 0.	.262805E-03 -.208283E-03 0. 0. 0. 0. 0.
.481488E-04 0. 0. 0. 0. 0. 0.	.390964E-04 0. 0. 0. 0. 0. 0.	.621185E-03 0. 0. 0. 0. 0. 0.	.199976E-03 0. 0. 0. 0. 0. 0.	.180542E-03 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.

GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.464157E-03	.334426E-03	.234781E-03	.326874E-03	.214912E-03	.357993E-03	.184439E-03
-.652395E-04	-.131420E-03	-.141678E-03	-.450412E-04	-.175282E-03	-.117138E-03	-.137695E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.231229E-03	.667050E-04	.809836E-02	.100443E-01	.127951E-01	.168294E-01	.230916E-01
.251331E-04	-.415276E-04	0.	.163720E-01	.202623E-01	.256713E-01	.334507E-01
0.	0.	0.	0.	.157875E-01	.192999E-01	.239710E-01
0.	0.	0.	0.	0.	.152512E-01	.183415E-01
0.	0.	0.	0.	0.	0.	.147080E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.335361E-01	.527095E-01	.924569E-01	.175171E+00	.193898E+00	.874747E-01	.275080E-01
.450370E-01	.626530E-01	.871318E-01	.823997E-01	-.502448E-01	-.719296E-01	-.258310E-02
.301444E-01	.376770E-01	.425403E-01	.104615E-01	-.690200E-01	.514972E-02	0.
.220793E-01	.250492E-01	.256196E-01	-.472853E-02	-.507635E-01	.187523E-01	0.
.171909E-01	.192705E-01	.173920E-01	-.422944E-02	-.394191E-01	.171209E-01	0.
.139761E-01	.151895E-01	.127364E-01	-.106043E-01	-.320505E-01	.147343E-01	0.
0.	.124532E-01	.982276E-02	-.108014E-01	-.764518E-01	.127357E-01	0.
0.	0.	.786477E-02	-.106655E-01	-.232224E-01	.111525E-01	0.
0.	0.	0.	-.102878E-01	-.203855E-01	.989421E-02	0.
0.	0.	0.	0.	-.181582E-01	.887927E-02	0.
0.	0.	0.	0.	0.	.804701E-02	0.
0.	0.	0.	0.	0.	0.	0.



NITROGEN (N)

Neutron ID = 16, Atomic No. = 7, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.214851E+00	.235405E+00	.242011E+00	.217030E+00	.178386E+00	.187789E+00	.319011E+00
0.	0.	0.	0.	0.	0.	0.
.158389E+01	.137106E+01	.156079E+01	.141148E+01	.132744E+01	.136767E+01	.163118E+01
.601338E+00	.549304E+00	.543289E+00	.500397E+00	.535391E+00	.596890E+00	.843998E+00
0.	.281596E+00	.274927E+00	.352414E+00	.378068E+00	.399253E+00	.427253E+00
0.	0.	.802386E-01	.103307E+00	.537585E-01	.304421E-01	.538193E-01
0.	0.	0.	.286281E-01	.346716E-01	.499834E-01	.101603E+00
0.	0.	0.	0.	.836157E-01	.829250E-01	.113255E+00
0.	0.	0.	0.	0.	.637499E-01	.125693E+00
0.	0.	0.	0.	0.	0.	.783916E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.329706E+00	.158465E+00	.962726E-01	.965030E-01	.200930E-01	.515680E-01	.192340E-01
0.	0.	0.	0.	0.	0.	0.
.165649E+01	.143981E+01	.174695E+01	.212921E+01	.178650E+01	.203021E+01	.293379E+01
.581036E+00	.543844E+00	.800713E+00	.110661E+01	.142456E+01	.155494E+01	.228911E+01
.425312E+00	.718530E+00	.724618E+00	.819446E+00	.976097E+00	.341847E+00	.423702E+00
.143366E-01	.152545E-01	.252673E-01	.126704E-01	0.	0.	0.
.494380E-01	.329218E-01	.762157E-03	0.	0.	0.	0.
.398675E-01	.447082E-01	.391647E-01	.536764E-02	.644740E-03	0.	0.
.647287E-01	.322402E-01	.274197E-01	.188910E-01	.95524E-02	.879918E-03	.284467E-04
.439726E-01	.511049E-01	.304517E-01	.158527E-01	.298057E-01	.521816E-02	.413295E-03
.284120E-01	.325102E-01	.324835E-01	.293811E-01	.117661E-01	.143910E-01	.345101E-02
0.	.304860E-01	.216528E-01	.184715E-01	.284734E-01	.598294E-02	.315792E-02
0.	0.	.294690E-01	.180960E-01	.216207E-01	.130040E-01	.343778E-02
0.	0.	0.	.271284E-01	.243178E-01	.963943E-02	.600134E-02
0.	0.	0.	0.	.379169E-01	.134953E-01	.449512E-02
0.	0.	0.	0.	0.	.169231E-01	.644560E-02
0.	0.	0.	0.	0.	0.	.787104E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.153600E-02	.153400E-02	.170100E-02	.250000E-02	.409000E-02	.675000E-02	.111200E-01
0.	0.	0.	0.	0.	0.	0.
.336705E+01	.410051E+01	.585166E+01	.711440E+01	.780957E+01	.842016E+01	.899262E+01
.263247E+01	.383747E+01	.496408E+01	.608812E+01	.670188E+01	.721970E+01	.772524E+01
.625446E+00	.733044E+00	.261506E+00	.865849E+00	.102418E+01	.110368E+01	.119371E+01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.757977E-04	.741345E-04	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.174332E-02	0.	.272504E-04	0.	0.	0.	0.
.166880E-02	.124707E-02	0.	.902441E-05	0.	0.	0.
.117830E-02	.125201E-02	.159445E-03	0.	0.	0.	0.
.268592E-02	.707599E-03	.144919E-03	0.	0.	0.	0.
.204024E-02	.184474E-02	.987362E-04	0.	0.	0.	0.
.274943E-02	.139066E-02	.159108E-03	0.	0.	0.	0.
.193633E-02	.157784E-02	.104119E-03	0.	0.	0.	0.
0.	.113382E-02	.393439E-04	.148013E-06	0.	0.	0.
0.	0.	.391878E-05	.407440E-06	0.	0.	0.
0.	0.	0.	.532416E-06	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.183400E-01	.302500E-01	.498700E-01	.821500E-01	.135510E+00	.223220E+00	.368060E+00
0.	0.	0.	0.	0.	0.	0.
.941587E+01	.981033E+01	.993369E+01	.100184E+02	.100909E+02	.101794E+02	.103250E+02
.808317E+01	.842744E+01	.852288E+01	.856825E+01	.858803E+01	.858333E+01	.859468E+01
.125624E+01	.131436E+01	.135264E+01	.136154E+01	.138850E+01	.136736E+01	.137305E+01
0.	0.	0.	0.	0.	0.	0.



Neutron ID = 16, Atomic No. = 7, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.544753E+00	.500777E+00	.490627E+00	.428217E+00	.404290E+00	.425293E+00	.416813E+00
0.	.131061E+00	.131279E+00	.893123E-01	.310540E-02	-.431817E-01	-.672093E-01
0.	0.	-.238628E-01	-.415647E-01	-.305227E-01	-.103150E-01	-.805050E-02
0.	0.	0.	-.103352E+01	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.344477E+00	.293467E+00	.426280E+00	.591563E+00	.325233E+00	.255059E+00	.394707E+00
-.174278E+00	-.307587E+00	-.231109E+00	-.216347E+00	-.208213E+00	-.108803E+00	-.117702E+00
0.	-.133929E-01	-.231826E-01	-.115629E-01	-.291815E-01	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.391747E+00	.281584E+00	.544413E+00	.647847E+00	.705150E+00	.761313E+00	.807943E+00
-.207892E+00	-.238860E+00	-.857680E-01	-.263507E+00	-.306315E+00	-.330327E+00	-.357297E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.845347E+00	.676077E+00	.883730E+00	.868470E+00	.899037E+00	.890797E+00	.887583E+00
-.376650E+00	-.394673E+00	-.406433E+00	-.409107E+00	-.411303E+00	-.410973E+00	-.412687E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.888453E+00	.478140E+00	.953651E+02	.118613E-01	.151519E-01	.200278E-01	.276966E-01
-.409447E+00	-.410313E+00	0.	.197150E-01	.246077E-01	.315708E-01	.419546E-01
0.	0.	0.	0.	.198270E-01	.247835E-01	.318622E-01
0.	0.	0.	0.	0.	.202842E-01	.255301E-01
0.	0.	0.	0.	0.	0.	.212564E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.407778E-01	.658578E-01	.123594E+00	.307068E+00	.531494E+00	.628794E+00	.247728E+00
.584094E-01	.866988E-01	.141103E+00	.280896E+00	.289828E+00	.290534E-01	-.893564E-01
.424724E-01	.594117E-01	.888078E-01	.144122E+00	.105254E+00	-.116157E+00	0.
.331684E-01	.449727E-01	.647794E-01	.100749E+00	.646419E-01	-.878124E-01	0.
.271815E-01	.362156E-01	.512250E-01	.782366E-01	.466438E-01	-.673369E-01	0.
.238440E-01	.303822E-01	.425424E-01	.642647E-01	.364504E-01	-.542874E-01	0.
0.	.262260E-01	.364913E-01	.546989E-01	.298895E-01	-.453979E-01	0.
0.	0.	.320183E-01	.476941E-01	.253159E-01	-.389837E-01	0.
0.	0.	0.	.423266E-01	.219477E-01	-.341445E-01	0.
0.	0.	0.	0.	.193652E-01	-.303718E-01	0.
0.	0.	0.	0.	0.	-.273458E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 16, Atomic No. = 7, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.451338E+00	.418536E+00	.403680E+00	.330434E+00	.277648E+00	.274300E+00	.297478E+00
0.	.164130E-01	.491364E-02	-.355072E-01	-.357852E-01	-.285540E-01	-.779086E-02
0.	0.	-.168298E-01	-.934310E-02	.144582E-01	.876280E-02	.654094E-02
0.	0.	0.	.744388E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.171329E+00	.105688E+00	.129289E+00	.158503E+00	.350808E-01	.200762E-01	.460954E-01
.571494E-01	.710838E-01	.201488E-01	.423842E-02	-.227652E-01	.449956E-02	-.975812E-02
0.	.111933E-01	.194146E-01	.956724E-02	.744208E-01	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.709238E-02	.542276E-02	.246450E-01	.278344E-01	.299194E-01	.323318E-01	.338116E-01
.634596E-03	-.333304E-02	-.855466E-03	-.184849E-01	-.204232E-01	-.218138E-01	-.235950E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.353164E-01	.367386E-01	.363168E-01	.364594E-01	.364358E-01	.365456E-01	.363392E-01
-.244848E-01	-.256176E-01	-.258824E-01	-.260528E-01	-.261386E-01	-.260976E-01	-.262044E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.363942E-01	.103400E-01	.950107E-02	.118063E-01	.150619E-01	.198697E-01	.273921E-01
-.259994E-01	-.260542E-01	0.	.194682E-01	.242176E-01	.309164E-01	.407682E-01
0.	0.	0.	0.	.192573E-01	.238633E-01	.302726E-01
0.	0.	0.	0.	0.	.192683E-01	.238343E-01
0.	0.	0.	0.	0.	0.	.195666E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.401106E-01	.648858E-01	.117105E+00	.262000E+00	.384276E+00	.332233E+00	.405611E+00
.580194E-01	.810951E-01	.124428E+00	.184308E+00	.866777E-01	-.678564E-01	.173249E-01
.394673E-01	.529527E-01	.718517E-01	.796854E-01	-.271438E-01	-.723033E-01	0.
.300957E-01	.387124E-01	.494227E-01	.472015E-01	-.333007E-01	-.352107E-01	0.
.242081E-01	.303637E-01	.374443E-01	.324238E-01	-.313521E-01	-.218862E-01	0.
.202179E-01	.249522E-01	.300987E-01	.242322E-01	-.284193E-01	-.154641E-01	0.
0.	.211833E-01	.251611E-01	.191147E-01	-.256573E-01	-.117957E-01	0.
0.	0.	.216214E-01	.156654E-01	-.232587E-01	-.946085E-02	0.
0.	0.	0.	.131964E-01	-.212130E-01	-.786034E-02	0.
0.	0.	0.	0.	-.194688E-01	-.670247E-02	0.
0.	0.	0.	0.	0.	-.582981E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 16, Atomic No. = 7, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0.	0. 0. 0. 0. 0.	0. 0. 0. 0. 0.	0. 0. 0. 0. 0.	0. 0. 0. 0. 0.	0. 0. 0. 0. 0.	0. 0. 0. 0. 0.
.348094E+00	.323520E+00	.307189E+00	.246601E+00	.204430E+00	.198567E+00	.167706E+00
0.	-.788239E-02	-.987021E-02	.964149E-02	.162076E-01	.194237E-01	.348463E-01
0.	0.	.110256E-01	.127447E-01	-.317389E-02	-.679071E-02	-.466713E-02
0.	0.	0.	-.438676E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.
.107681E+00	.529101E-01	.550649E-01	.330373E-01	.796016E-02	.489341E-02	.600173E-02
-.603781E-02	.105457E-01	.176869E-02	.584253E-02	-.148766E-01	-.556466E-02	-.418629E-02
0.	-.841763E-02	-.146606E-01	-.7063.7E-02	-.194609E-01	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.
.736954E-04	.351980E-04	.431223E-03	.464454E-03	.535904E-03	.579661E-03	.586336E-03
-.586336E-03	-.149637E-05	.262524E-05	-.438737E-03	-.484089E-03	-.535904E-03	-.579661E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.
.613463E-03	.599154E-03	.603096E-03	.594017E-03	.601299E-03	.603803E-03	.598987E-03
-.586336E-03	-.613463E-03	-.599154E-03	-.603096E-03	-.594017E-03	-.601299E-03	-.603803E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.
.600247E-03	.600247E-03	.944809E-02	.117242E-01	.149276E-01	.196343E-01	.269402E-01
-.598987E-03	-.600247E-03	0.	.191014E-01	.236393E-01	.299498E-01	.390258E-01
0.	0.	0.	0.	.184188E-01	.225166E-01	.279661E-01
0.	0.	0.	0.	0.	.177931E-01	.213984E-01
0.	0.	0.	0.	0.	0.	.171593E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.	0. 0. 0. 0.
.391255E-01	.614944E-01	.107866E+00	.204367E+00	.226214E+00	.102054E+00	.320926E-01
.525432E-01	.730951E-01	.101654E+00	.961284E-01	-.5A8189E-01	-.839179E-01	-.301372E-02
.351685E-01	.439565E-01	.496303E-01	.122045E-01	-.A05234E-01	.600801E-02	0.
.257597E-01	.301574E-01	.298895E-01	-.551662E-02	-.592240E-01	.218777E-01	0.
.200561E-01	.224822E-01	.202906E-01	-.107683E-01	-.454884E-01	.199744E-01	0.
.163055E-01	.177211E-01	.148591E-01	-.123775E-01	-.373993E-01	.171900E-01	0.
0.	.145288E-01	.114599E-01	-.126722E-01	-.314438E-01	.148584E-01	0.
0.	0.	.917557E-02	-.124431E-01	-.270928E-01	.130112E-01	0.
0.	0.	0.	-.120024E-01	-.237830E-01	.115437E-01	0.
0.	0.	0.	0.	-.211846E-01	.103591E-01	0.
0.	0.	0.	0.	0.	.938818E-02	0.
0.	0.	0.	0.	0.	0.	0.

OXYGEN (O)

Neutron ID = 22, Atomic No. = 8, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.117452E+00	.179076E+00	.178117E+00	.198089E+00	.107475E+00	.830245E-01	.476249E-01
0.	0.	0.	0.	0.	0.	0.
.162106E+01	.142932E+01	.158305E+01	.152518E+01	.119772E+01	.107818E+01	.185962E+01
.606153E+00	.638088E+00	.705578E+00	.498075E+00	.503487E+00	.504057E+00	.122900E+01
0.	.278870E+00	.272204E+00	.305000E+00	.393336E+00	.386149E+00	.448774E+00
0.	0.	.509412E-01	.602624E-01	.226048E-01	.838135E-04	.178621E-03
0.	0.	0.	.236717E-02	0.	.112753E-01	.855287E-01
0.	0.	0.	0.	.724266E-01	.131204E+00	.177344E+00
0.	0.	0.	0.	0.	.514043E-01	.112543E+00
0.	0.	0.	0.	0.	0.	.155209E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.136115E-02	.274548E-03	-.464760E-05	-.710543E-14	-.213163E-13	.400000E-05	.710543E-14
0.	0.	0.	0.	0.	0.	0.
.230323E+01	.874347E+00	.178984E+01	.224037E+01	.421092E+01	.314284E+01	.716791E+01
.145298E+01	.495896E+00	.942433E+00	.119674E+01	.312036E+01	.257534E+01	.614576E+01
.502942E+00	.848812E+00	.378095E+00	.847338E+00	.104363E+01	.109056E+01	.567476E+00
0.	.530713E-04	.768532E-04	.014514E-04	.736476E-04	0.	0.
.175717E-01	0.	0.	0.	0.	0.	0.
.767061E-01	.474578E-01	0.	0.	0.	0.	0.
.278919E-01	.283208E-01	.530988E-01	0.	0.	0.	0.
.847177E-01	.635698E-01	.113509E-01	.426801E-01	.112741E-01	0.	0.
.928035E-01	.758772E-01	.426179E-01	.220647E-01	.255821E-01	.114866E-01	0.
0.	.580545E-01	.453049E-01	.184344E-01	.169754E-01	.923897E-02	.737511E-02
0.	0.	.389817E-01	.14079E-01	.188375E-01	.516622E-02	.343658E-02
0.	0.	0.	0.	.730455E-02	.613066E-02	.998740E-03
0.	0.	0.	0.	.397374E-01	.248506E-02	.187937E-02
0.	0.	0.	0.	0.	.162187E-01	.113541E-02
0.	0.	0.	0.	0.	0.	.620303E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
-.200000E-05	.300000E-05	-.400000E-05	.300000E-05	.200000E-05	-.200000E-05	.300000E-05
0.	0.	0.	0.	0.	0.	0.
.354487E+01	.358467E+01	.365623E+01	.368564E+01	.369698E+01	.370142E+01	.370316E+01
.261127E+01	.313321E+01	.320853E+01	.323711E+01	.324922E+01	.325244E+01	.325561E+01
.102215E+01	.933602E+00	.451457E+00	.447704E+00	.448527E+00	.447758E+00	.448942E+00
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.487554E-02	0.	0.	0.	0.	0.	0.
.509977E-03	.541424E-02	0.	0.	0.	0.	0.
.389953E-03	.340177E-04	.184690E-02	0.	0.	0.	0.
.536529E-03	.176008E-03	0.	.518109E-04	0.	0.	0.
.448325E-03	.192978E-03	.774505E-05	0.	0.	0.	0.
.199890E-02	.223406E-03	.528291E-05	0.	0.	0.	0.
0.	.844562E-03	.103075E-04	0.	0.	0.	0.
0.	0.	.571999E-05	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.200000E-05	.300000E-05	.200000E-05	.600000E-05	.130000E-04	.250000E-04	.340000E-04
0.	0.	0.	0.	0.	0.	0.
.370377E+01	.370410E+01	.370414E+01	.370400E+01	.370401E+01	.370402E+01	.370403E+01
.325557E+01	.325617E+01	.325571E+01	.325542E+01	.325648E+01	.325436E+01	.325734E+01
.447547E+00	.448198E+00	.447927E+00	.448428E+00	.448674E+00	.447517E+00	.449638E+00
0.	0.	0.	0.	0.	0.	0.



Neutron ID = 22, Atomic No. = 8, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.543990E+00	.584797E+00 .144278E+00	.004893E+00 .940893E-01 -.240327E-01	.531170E+00 .219743E-01 -.359040E-01 -.217065E-02	.313900E+00 -.104266E+00 -.189990E-01	.258033E+00 -.924477E-01 -.832077E-04	.617350E+00 -.146483E+00 -.177188E-03
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.082517E+00 -.497963E-01	.175649E+00 -.342020E+00 -.527480E-04	.495507E+00 -.120876E+00 -.762480E-04	.589017E+00 -.283022E+00 -.809170E-04	.838537E+00 -.250511E+00 -.731933E-04	.841540E+00 -.505067E+00	.132127E+01 .293705E-01
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.572957E-01 -.470867E+00	.134365E+00 -.336983E+00	.233482E+00 -.145920E+00	.270630E+00 -.139545E+00	.284117E+00 -.137821E+00	.289566E+00 -.136859E+00	.291019E+00 -.136967E+00
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.291894E+00 -.136447E+00	.292072E+00 -.136596E+00	.292316E+00 -.136502E+00	.292412E+00 -.136650E+00	.292097E+00 -.136717E+00	.292736E+00 -.136389E+00	.291810E+00 -.137024E+00
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.241330E+00 -.136096E+00	.155715E+00 -.135623E+00	.108989E-01	.135557E-01 .225314E-01	.173165E-01 .281231E-01 .226594E-01	.228889E-01 .360409E-01 .283239E-01 .231819E-01	.316532E-01 .479481E-01 .364139E-01 .291773E-01 .242930E-01
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.466032E-01 .667536E-01 .485199E-01 .379068E-01 .310646E-01 .243360E-01	.752661E-01 .990843E-01 .478991E-01 .513974E-01 .413892E-01 .347225E-01 .299726E-01	.141250E+00 .161261E+00 .101495E+00 .740336E-01 .585429E-01 .486199E-01 .417043E-01 .385923E-01	.350935E+00 .298166E+00 .164715E+00 .115198E+00 .494133E-01 .734511E-01 .625131E-01 .545076E-01 .483733E-01	.607650E+00 .331232E+00 .120290E+00 .734764E-01 .533072E-01 .416576E-01 .341594E-01 .284325E-01 .750431E-01 .221316E-01	.769478E+00 .332041E-01 -.132751E+00 -.100357E+00 -.769567E-01 -.620427E-01 -.518833E-01 -.445524E-01 -.390246E-01 -.347107E-01 -.312524E-01	.305975E+00 -.792645E-01 0. 0. 0. 0. 0. 0. 0. 0. 0.
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.

Neutron ID = 22, Atomic No. = 8, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.447344E+00	.492348E+00 .266698E-01	.462036E+00 -.440448E-01 -.301306E-03	.355744E+00 -.315512E-01 .977608E-02 .184794E-02	.187655E+00 -.118611E-01 .131259E-01	.127622E+00 -.230794E-01 .820054E-04	.385352E+00 .271298E-02 .174344E-03
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.



GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.443658E+00	-.354864E-02	.177283E+00	.233228E+00	.805116E+00	.129995E+00	.735334E+00
-.280016E-02	.898408E-01	.845940E-02	.329520E-01	.501426E-01	.184791E+00	-.665728E-01
0.	.521320E-04	.750794E-04	.798848E-04	.723558E-04	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.318394E-01	-.415366E-02	.503232E-02	.845646E-02	.970702E-02	.101849E-01	.103312E-01
.938476E-03	.146634E-01	-.290664E-02	-.571366E-02	-.685040E-02	-.725140E-02	-.741552E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.104125E-01	.104301E-01	.104470E-01	.104578E-01	.104256E-01	.104672E-01	.104283E-01
-.744622E-n2	-.748492E-n2	-.748672E-02	-.749742E-02	-.750672E-02	-.747300E-02	-.751506E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.103433E-01	.295228E-02	.108584E-01	.134929E-01	.172136E-01	.227082E-01	.313053E-01
-.747610E-02	-.739104E-02	0.	.222443E-01	.276773E-01	.353330E-01	.465922E-01
0.	0.	0.	0.	.220044E-01	.272724E-01	.345973E-01
0.	0.	0.	0.	0.	.220209E-01	.272392E-01
0.	0.	0.	0.	0.	0.	.223619E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.458407E-01	.732400E-01	.133834E+00	.299429E+00	.439172E+00	.379695E+00	.463556E+00
.640222E-01	.926801E-01	.142204E+00	.210638E+00	.490602E-01	-.775507E-01	.197999E-01
.651054E-01	.605174E-01	.821162E-01	.910640E-01	-.310214E-01	-.826324E-01	0.
.343951E-n1	.442427E-n1	.564831E-01	.539485E-01	-.380579E-01	-.402631E-01	0.
.276664E-01	.347614E-01	.427035E-01	.370558E-01	-.358310E-01	-.250128E-01	0.
.231062E-01	.281168E-n1	.343085E-01	.276934E-01	-.324792E-01	-.176732E-01	0.
0.	.242095E-01	.287555E-01	.218511E-01	-.293227E-01	-.134809E-01	0.
0.	0.	.247102E-01	.179034E-01	-.245814E-01	-.108124E-01	0.
0.	0.	0.	.150822E-01	-.242434E-01	-.898327E-02	0.
0.	0.	0.	0.	-.222501E-01	-.765946E-02	0.
0.	0.	0.	0.	0.	-.666264E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 22, Atomic No. = 8, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.348836E+00	.382356E+00	.339544E+00	.270531E+00	.159724E+00	.130299E+00	.240543E+00
0.	.203020E-n2	-.393767E-01	-.191019E-01	.606336E-02	.374383E-02	.210389E-01
0.	0.	.347569E-02	-.236714E-03	-.698014E-02	-.802279E-04	-.170151E-03
0.	0.	0.	-.143240E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.209290E+00	-.308161E-02	.651667E-01	.141211E+00	.181144E+00	-.767766E-02	-.102021E+00
.620070E-02	-.106105E-01	.397249E-02	-.289381E-01	-.988434E-02	-.111630E+00	-.369790E-01
0.	-.512180E-04	-.733521E-04	-.783674E-04	-.711127E-04	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.150539E-02	-.178447E-03	.884487E-05	.939343E-04	-.124806E-03	.136196E-03	-.139841E-03
-.129683E-01	.632374E-03	.364394E-04	-.826821E-04	-.127748E-03	-.143724E-03	-.149657E-03
0.	0.	0.	0.	0.	0.	0.

GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.142009E-03	.142421E-03	.142793E-03	.143157E-03	.142020E-03	.143030E-03	.142704E-03
-.151249E-03	-.152684E-03	-.152817E-03	-.153099E-03	-.153431E-03	-.152257E-03	-.153310E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.139043E-03	-.101783E-04	.107978E-01	.133990E-01	.170601E-01	.224392E-01	.307887E-01
-.152911E-03	-.149221E-03	0.	.218301E-01	.270164E-01	.342284E-01	.446009E-01
0.	0.	0.	0.	.210501E-01	.257333E-01	.319613E-01
0.	0.	0.	0.	0.	.203349E-01	.244553E-01
0.	0.	0.	0.	0.	0.	.196107E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.447148E-01	.702794E-01	.123276E+00	.233562E+00	.258530E+00	.116633E+00	.366773E-01
.600493E-01	.835373E-01	.118176E+00	.109861E+00	-.684931E-01	-.959061E-01	-.344425E-02
.401925E-01	.502300E-01	.567204E-01	.139480E-01	-.920267E-01	.686630E-02	0.
.294391E-01	.344856E-01	.341594E-01	-.830471E-02	-.678846E-01	.250030E-01	0.
.229212E-01	.256948E-01	.231843E-01	-.123066E-01	-.525588E-01	.228279E-01	0.
.186348E-01	.202527E-01	.169819E-01	-.141457E-01	-.427420E-01	.196457E-01	0.
0.	.166043E-01	.130970E-01	-.144825E-01	-.359358E-01	.169810E-01	0.
0.	0.	.104864E-01	-.142207E-01	-.304631E-01	.148700E-01	0.
0.	0.	0.	-.137171E-01	-.271806E-01	.131923E-01	0.
0.	0.	0.	0.	-.242110E-01	.118390E-01	0.
0.	0.	0.	0.	0.	.107293E-01	0.
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 41, Atomic No. = 11, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.245988E+00	.545363E+00	.506390E+00	.420627E+00	.384463E+00	.464463E+00	.548633E+00
0.	.391393E+00	.356690E-01	-.336773E-02	-.610090E-04	.129601E-02	-.321617E-02
0.	0.	-.227946E+01	-.901133E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.608053E+00	.100416E+01	.875013E+00	.807850E+00	.113414E+01	.104438E+01	.461703E+00
.666710E+02	.241638E-01	-.832437E-02	-.207342E-01	-.537147E-01	-.400213E-01	-.168811E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.553307E+00	.203714E+00	.221343E+00	.252015E+00	.149656E+01	.222326E+01	.189279E+00
-.136738E+00	-.220658E+00	-.100037E+00	-.108573E+00	-.130921E+00	-.101943E+01	-.124609E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.177705E+00	.175875E+00	.175653E+00	.175452E+00	.176377E+00	.178238E+00	.180056E+00
-.868373E-01	-.844480E-01	-.838977E-01	-.838653E-01	-.838270E-01	-.843070E-01	-.854050E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.181580E+00	.950383E-01	.149880E-01	.186391E-01	.238102E-01	.314722E-01	.435232E-01
-.861183E-01	-.865493E-01	0.	.309807E-01	.388693E-01	.496112E-01	.659286E-01
0.	0.	0.	0.	.311567E-01	.389454E-01	.500691E-01
0.	0.	0.	0.	0.	.318752E-01	.401187E-01
0.	0.	0.	0.	0.	0.	.334028E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.640793E-01	.103491E+00	.194219E+00	.482535E+00	.835518E+00	.975533E+00	.420715E+00
.917862E-01	.136241E+00	.221734E+00	.409979E+00	.455444E+00	.456557E-01	-.108989E+00
.667424E-01	.933612E-01	.139555E+00	.226478E+00	.165399E+00	-.182539E+00	0.
.521219E-01	.706714E-01	.181796E+00	.158397E+00	.101580E+00	-.137991E+00	0.
.427138E-01	.569182E-01	.804964E-01	.122943E+00	.732974E-01	-.105815E+00	0.
.362119E+01	.477434E-01	.888524E-01	.180995E+00	.572792E-01	-.853087E-01	0.
0.	.412123E-01	.973434E-01	.89584E-01	.499692E-01	-.713396E-01	0.
0.	0.	.583144E-01	.749479E-01	.397821E-01	-.612601E-01	0.
0.	0.	0.	.665132E-01	.344892E-01	-.536588E-01	0.
0.	0.	0.	0.	.304310E-01	-.477272E-01	0.
0.	0.	0.	0.	0.	-.429720E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 41, Atomic No. = 11, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.233950E+00	.458942E+00	.388202E+00	.318604E+00	.295854E+00	.335252E+00	.325972E+00
0.	.229616E+00	-.303242E-01	-.617066E-02	.123450E-02	.974616E-04	-.274540E-02
0.	0.	.130850E-02	.562546E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .348266E+00 -.292882E-02 0.	0. 0. 0. .462214E+00 -.142294E-01 0.	0. 0. 0. .360620E+00 -.215766E-01 0.	0. 0. 0. .316318E+00 -.342072E-01 0.	0. 0. 0. .382214E+00 -.260912E-01 0.	0. 0. 0. .435746E+00 -.319980E-01 0.	0. 0. 0. .853556E-01 .192358E-01 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .867726E-01 -.934752E-03 0.	0. 0. 0. .152201E-01 .108720E-01 0.	0. 0. 0. .610388E-02 -.383000E-02 0.	0. 0. 0. .780262E-02 -.273606E-02 0.	0. 0. 0. .175776E+00 -.644802E-08 0.	0. 0. 0. .297012E-01 -.170021E+00 0.	0. 0. 0. .449318E+02 -.207046E-02 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .434792E-02 -.314444E-02 0.	0. 0. 0. .432022E-02 -.312010E-02 0.	0. 0. 0. .432240E-02 -.311724E-02 0.	0. 0. 0. .433608E-02 -.311342E-02 0.	0. 0. 0. .435436E-02 -.313054E-02 0.	0. 0. 0. .440794E-02 -.314218E-02 0.	0. 0. 0. .445448E-02 -.318570E-02 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .446516E-02 -.321770E-02 0. 0. 0. 0. 0. 0.	0. 0. 0. .125126E-02 -.321390E-02 0. 0. 0. 0. 0. 0.	0. 0. 0. .149303E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .185527E-01 .305928E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .236687E-01 .380563E-01 .302615E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .312238E-01 .485829E-01 .374995E-01 .302787E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .430447E-01 .640643E-01 .475713E-01 .374539E-01 .307476E-01 0. 0. 0. 0. 0. 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .630310E-01 .880305E-01 .620200E-01 .472933E-01 .380412E-01 .317711E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .100705E+00 .127435E+00 .832114E-01 .608337E-01 .477145E-01 .392106E-01 .332881E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .184021E+00 .195530E+00 .112010E+00 .776642E-01 .588411E-01 .472974E-01 .395389E-01 .339765E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .411714E+00 .289627E+00 .125221E+00 .741792E-01 .509517E-01 .388794E-01 .300452E-01 .246179E-01 .207381E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .603862E+00 .136208E+00 .476545E-01 .523297E-01 .492676E-01 .446859E-01 .483186E-01 .365494E-01 .333347E-01 -.305938E-01 0. 0. 0. 0. 0.	0. 0. 0. .522081E+00 -.106637E+00 -.113619E+00 -.553617E-01 -.343925E-01 -.243087E-01 -.185361E-01 -.148671E-01 -.123520E-01 -.105324E-01 -.916113E-02 0. 0. 0. 0. 0.	0. 0. 0. .637389E+00 .272248E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 41, Atomic No. = 11, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .221914E+00 0. 0.	0. 0. 0. .370731E+00 .142916E+00 0. 0.	0. 0. 0. .309686E+00 -.211520E-01 .787364E-02 0.	0. 0. 0. .258853E+00 -.255403E-02 -.240754E-02 0.	0. 0. 0. .231304E+00 -.494610E-02 0. 0.	0. 0. 0. .246777E+00 .179334E-02 0. 0.	0. 0. 0. .196294E+00 .689896E-02 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .158911E+00 -.664624E-02 0.	0. 0. 0. .167684E+00 -.220901E-01 0.	0. 0. 0. .137130E+00 -.143389E-01 0.	0. 0. 0. .907381E-01 -.725841E-02 0.	0. 0. 0. .731207E-01 -.277031E-01 0.	0. 0. 0. .438647E-01 -.121062E-01 0.	0. 0. 0. .774051E-02 -.968856E-03 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. -.362750E-02 -.772847E-02 0.	0. 0. 0. .386941E-02 .456129E-03 0.	0. 0. 0. .598551E-02 .435749E-03 0.	0. 0. 0. .658000E-03 .894363E-04 0.	0. 0. 0. .232506E-01 -.176726E-03 0.	0. 0. 0. .158737E-03 -.232506E-01 0.	0. 0. 0. .521404E-04 -.158737E-03 0.

GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.471847E-04	.475256E-04	.474281E-04	.480809E-04	.481201E-04	.488447E-04	.494539E-04
-.521404E-04	-.471847E-04	-.475256E-04	-.474281E-04	-.480809E-04	-.481201E-04	-.488447E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.489581E-04	.489581E-04	.148478E-01	.184237E-01	.234576E-01	.308539E-01	.423345E-01
-.494539E-04	-.489581E-04	0.	.300184E-01	.371475E-01	.470640E-01	.613263E-01
0.	0.	0.	0.	.289438E-01	.353832E-01	.439467E-01
0.	0.	0.	0.	0.	.279605E-01	.336260E-01
0.	0.	0.	0.	0.	0.	.289647E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.614829E-01	.966341E-01	.169504E+00	.321148E+00	.355479E+00	.180370E+00	.504313E-01
.825678E-01	.114864E+00	.159742E+00	.151054E+00	-.921155E-01	-.131871E+00	-.473584E-02
.552647E-01	.690745E-01	.779905E-01	.191715E-01	-.126537E+00	.944116E-02	0.
.404787E-01	.473903E-01	.469642E-01	-.866847E-02	-.930663E-01	.343792E-01	0.
.315167E-01	.353292E-01	.318853E-01	-.169215E-01	-.722693E-01	.313894E-01	0.
.256229E-01	.278475E-01	.233501E-01	-.194504E-01	-.587703E-01	.270128E-01	0.
0.	.228309E-01	.180084E-01	-.199134E-01	-.494117E-01	.233489E-01	0.
0.	0.	.144187E-01	-.195535E-01	-.425743E-01	.204462E-01	0.
0.	0.	0.	-.188610E-01	-.373733E-01	.181394E-01	0.
0.	0.	0.	0.	-.332901E-01	.162787E-01	0.
0.	0.	0.	0.	0.	.147520E-01	0.
0.	0.	0.	0.	0.	0.	0.

MAGNESIUM (Mg)

Neutron ID = 42, Atomic No. = 12, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.468480E+00	.581812E+00	.612601E+00	.544628E+00	.319151E+00	.904926E-01	.526279E-02
0.	0.	0.	0.	0.	0.	0.
.172546E+01	.174634E+01	.169631E+01	.160660E+01	.168035E+01	.163943E+01	.185403E+01
.647724E+00	.619951E+00	.623863E+00	.536059E+00	.624960E+00	.713348E+00	.118917E+01
0.	.172122E+00	.173147E+00	.106581E+00	.957124E+01	.164837E+00	.291046E+00
0.	0.	.109479E-01	.836745E+02	.413884E-02	.291278E-01	.153049E+00
0.	0.	0.	.910569E+05	.974252E-09	.114426E-01	.101756E+00
0.	0.	0.	0.	.140002E-09	.412454E-02	.582787E-01
0.	0.	0.	0.	0.	.103533E-02	.348744E-01
0.	0.	0.	0.	0.	0.	.174364E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.265900E-02	.389920E-02	.590700E-02	.854896E-02	.108024E-01	.100530E-01	.820000E-02
0.	0.	0.	0.	0.	0.	0.
.200381E+01	.251021E+01	.289977E+01	.265659E+01	.328209E+01	.435503E+01	.722681E+01
.110178E+01	.159808E+01	.208075E+01	.194829E+01	.275068E+01	.392252E+01	.624510E+01
.390974E+00	.392673E+00	.556714E+00	.666549E+00	.690283E+00	.520604E+00	.422457E+00
.108882E+00	.188294E+00	.298467E+00	.383708E-01	.296680E-02	0.	0.
.875535E+01	.982408E-01	.220707E-01	.2162. E+00	.313146E+00	.103737E+00	.194477E-02
.608749E-01	.808488E-01	.100305E+00	.200540E-01	0.	0.	.398152E-01
.445339E-01	.574786E-01	.683537E-01	.732089E-01	.234214E-01	0.	0.
.361741E-01	.476493E-01	.494487E-01	.536702E-01	.938060E-01	.937914E-02	0.
.264156E-01	.456038E-01	.452035E-01	.393588E-01	.676087E-01	.450427E-01	.180708E-02
0.	.413530E-01	.491926E-01	.388419E-01	.502817E-01	.322493E-01	.198439E-01
0.	0.	.528715E-01	.467462E-01	.537140E-01	.243051E-01	.139336E-01
0.	0.	0.	.574091E-01	.718113E-01	.279730E-01	.105873E-01
0.	0.	0.	0.	.101533E+00	.412354E-01	.127569E-01
0.	0.	0.	0.	0.	.663183E-01	.199736E-01
0.	0.	0.	0.	0.	0.	.347918E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.829500E-02	.986800E-02	.149370E-01	.203100E-02	.999000E-03	.100400E-02	.998000E-03
0.	0.	0.	0.	0.	0.	0.
.865801E+01	.987774E+01	.364043E+01	.417456E+01	.350097E+01	.350100E+01	.350100E+01
.793035E+01	.925420E+01	.331089E+01	.386340E+01	.321427E+01	.321540E+01	.321741E+01
.973519E+00	.819365E+00	.613672E+00	.314603E+00	.291129E+00	.285701E+00	.284396E+00
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.100300E-02	.106500E-02	.104800E-02	.269300E-02	.443400E-02	.730500E-02	.120520E-01
0.	0.	0.	0.	0.	0.	0.
.350100E+01	.350121E+01	.350179E+01	.350269E+01	.347713E+01	.343265E+01	.342205E+01
.321733E+01	.321768E+01	.321736E+01	.321705E+01	.319448E+01	.314910E+01	.313556E+01
.282592E+00	.282667E+00	.282465E+00	.282782E+00	.282947E+00	.278216E+00	.276245E+00
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 42, Atomic No. = 12, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.574950E+00	.560010E+00	.522260E+00	.424360E+00	.488140E+00	.522470E+00	.541733E+00
0.	.626687E-01	.309526E-01	-.300371E-02	-.634603E-02	-.919657E-02	-.155369E-01
0.	0.	-.770437E-02	-.502313E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.585047E+00	.783517E+00	.955117E+00	.867977E+00	.119442E+01	.165946E+01	.211606E+01
-.302636E-01	-.651473E-01	-.793227E-01	-.100777E+00	-.772857E-01	-.296015E-01	-.552017E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.115203E+01	.436447E+00	-.197314E-02	-.569513E-03	.126032E+00	.162555E+00	.177168E+00
-.185952E+00	-.271298E+00	-.277140E+00	-.115439E+00	-.974517E-01	-.922360E-01	-.903523E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.183836E+00	.185679E+00	.185794E+00	.185839E+00	.183639E+00	.181672E+00	.180671E+00
-.491723E-01	-.889603E-01	-.888757E-01	-.889753E-01	-.890247E-01	-.875795E-01	-.869220E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.180312E+00	.943250E-01	.163483E-01	.203336E-01	.259747E-01	.343333E-01	.474798E-01
-.863453E-01	-.859870E-01	0.	.337971E-01	.421846E-01	.541213E-01	.719221E-01
0.	0.	0.	0.	.339892E-01	.424859E-01	.546208E-01
0.	0.	0.	0.	0.	.347729E-01	.437659E-01
0.	0.	0.	0.	0.	0.	.364395E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.699047E-01	.112899E+00	.211875E+00	.526402E+00	.911475E+00	.106422E+01	.458962E+00
.100130E+00	.148626E+00	.241892E+00	.447250E+00	.496848E+00	.498067E-01	-.118897E+00
.728099E-01	.101849E+00	.152242E+00	.247067E+00	.180435E+00	-.199127E+00	0.
.588602E-01	.770961E-01	.111050E+00	.172706E+00	.110815E+00	-.150536E+00	0.
.485969E-01	.620839E-01	.870143E-01	.134120E+00	.799608E-01	-.115434E+00	0.
.395039E-01	.520837E-01	.729299E-01	.110177E+00	.624864E-01	-.930640E-01	0.
0.	.449588E-01	.625505E-01	.937606E-01	.512391E-01	-.778250E-01	0.
0.	0.	.540880E-01	.817614E-01	.433987E-01	-.668297E-01	0.
0.	0.	0.	.725599E-01	.376246E-01	-.585368E-01	0.
0.	0.	0.	0.	.331975E-01	-.520660E-01	0.
0.	0.	0.	0.	0.	-.468785E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 42, Atomic No. = 12, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.473760E+00	.468152E+00	.400662E+00	.326660E+00	.377510E+00	.380446E+00	.332766E+00
0.	-.243728E-03	-.302638E-01	-.444312E-02	.144045E-02	.733928E-02	.133527E-01
0.	0.	.317110E-02	.307110E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.327764E+00	.395884E+00	.410136E+00	.342768E+00	.497882E+00	.752166E+00	.828770E+00
.185204E-01	.270384E-01	.220450E-01	.457736E-02	-.233268E-01	-.204230E-01	.298162E-01
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.120776E+00	.639696E+00	.151683E+00	.820934E-02	.422680E-02	.379018E-02	.373978E-02
-.685922E-01	.924582E-02	.764038E-01	.722584E-02	.418550E-03	-.167335E-02	-.263064E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.421394E-02	.432142E-02	.432254E-02	.432584E-02	.423968E-02	.422282E-02	.420208E-02
-.296692E-02	-.310198E-02	-.311358E-02	-.311708E-02	-.312044E-02	-.304368E-02	-.304314E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.416604E-02	.117442E-02	.162875E-01	.202393E-01	.258204E-01	.340623E-01	.449579E-01
-.302766E-02	-.299162E-02	0.	.333740E-01	.415159E-01	.529995E-01	.698884E-01
0.	0.	0.	0.	.409086E-01	.409086E-01	.518959E-01
0.	0.	0.	0.	0.	.330313E-01	.408588E-01
0.	0.	0.	0.	0.	0.	.335428E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.687610E-01	.109860E+00	.200751E+00	.449143E+00	.654758E+00	.569543E+00	.495333E+00
.960333E-01	.139070E+00	.213305E+00	.315957E+00	.148590E+00	.116326E+00	.296998E+01
.676481E-01	.907761E-01	.123174E+00	.136604E+00	-.465322E-01	-.123949E+00	0.
.515927E-01	.663641E-01	.847240E-01	.809245E-01	-.570664E-01	-.603946E-01	0.
.414995E-01	.520521E-01	.641903E-01	.555836E-01	-.537464E-01	-.375191E-01	0.
.346593E-01	.427752E-01	.515977E-01	.415404E-01	-.447184E-01	-.265099E-01	0.
0.	.363143E-01	.431333E-01	.327768E-01	-.434804E-01	-.202212E-01	0.
0.	0.	.370653E-01	.268554E-01	-.398721E-01	-.162186E-01	0.
0.	0.	0.	.226233E-01	-.363652E-01	-.134749E-01	0.
0.	0.	0.	0.	-.333751E-01	-.114899E-01	0.
0.	0.	0.	0.	0.	-.999395E-02	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 42, Atomic No. = 12, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.384956E+00	.376261E+00	.320673E+00	.266459E+00	.299024E+00	.263459E+00	.174320E+00
0.	-.418996E-02	-.201673E-01	-.172419E-02	-.273516E-02	-.719249E-02	-.823830E-02
0.	0.	.260764E-03	-.110541E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.120834E+00	.131997E+00	.118248E+00	.855941E-01	.118258E+00	.132604E+00	.668704E-01
-.158963E-01	-.353047E-01	-.455727E-01	-.390239E-01	-.365993E-01	-.423293E-01	-.534770E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.529199E-01	.103958E+00	.123221E-01	.103576E-02	.327704E-03	.819257E-04	.241854E-04
-.898730E-02	-.308753E-02	-.267121E-01	-.600876E-03	-.113722E-03	-.912039E-04	-.347697E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.370040E-04	.385463E-04	.457393E-04	.458224E-04	.441636E-04	.446130E-04	.444831E-04
-.415877E-04	-.464444E-04	-.456879E-04	-.457393E-04	-.458224E-04	-.441636E-04	-.446130E-04
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.434753E-04	0.	.161967E-01	.200980E-01	.255901E-01	.336588E-01	.461831E-01
-.444831E-04	-.434753E-04	0.	.327452E-01	.405246E-01	.513425E-01	.669014E-01
0.	0.	0.	0.	.315751E-01	.385999E-01	.479419E-01
0.	0.	0.	0.	0.	.305024E-01	.366829E-01
0.	0.	0.	0.	0.	0.	.294160E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.670723E-01	.105419E+00	.184914E+00	.350343E+00	.387795E+00	.174949E+00	.550159E-01
.900740E-01	.125306E+00	.174264E+00	.164741E+00	-.100490E+00	-.143859E+00	-.516637E-02
.602888E-01	.753540E-01	.850806E-01	.209219E-01	-.138040E+00	.102994E-01	0.
.441586E-01	.516985E-01	.512391E-01	-.445700E-02	-.101527E+00	.375045E-01	0.
.343819E-01	.385410E-01	.347840E-01	-.184599E-01	-.788381E-01	.342418E-01	0.
.279522E-01	.303791E-01	.254728E-01	-.212180E-01	-.441131E-01	.294685E-01	0.
0.	.249064E-01	.196455E-01	-.217238E-01	-.539037E-01	.254715E-01	0.
0.	0.	.157295E-01	-.213311E-01	-.464447E-01	.223049E-01	0.
0.	0.	0.	-.205756E-01	-.407709E-01	.197884E-01	0.
0.	0.	0.	0.	-.363165E-01	.177585E-01	0.
0.	0.	0.	0.	0.	.160940E-01	0.
0.	0.	0.	0.	0.	0.	0.

ALUMINUM (Al)

Neutron ID = 12, Atomic No. = 13, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.144340E+00	.188834E+00	.206486E+00	.209853E+00	.162215E+00	.753470E-01	.140631E-01
n.	0.	0.	0.	0.	0.	0.
.147736E+01	.149038E+01	.148458E+01	.150613E+01	.154621E+01	.185455E+01	.213964E+01
.456933E+00	.357185E+00	.610916E+00	.684045E+00	.695936E+00	.939446E+00	.140809E+01
0.	.633249E+00	.696224E+00	.552465E+00	.531152E+00	.561703E+00	.794677E+00
0.	0.	.109820E+00	.135319E+00	.892347E-01	.501407E-01	.103182E+00
0.	0.	0.	.112155E+00	.102820E+00	.254790E-01	.309334E-01
0.	0.	0.	0.	.100470E-03	0.	0.
0.	0.	0.	0.	0.	.328040E-03	0.
0.	0.	0.	0.	0.	0.	.219301E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.287450E-02	.353386E-n3	-.860000E-05	-.300000E-05	-.104660E-09	.100000E-05	.400000E-05
0.	0.	0.	0.	0.	0.	0.
.257966E-n01	.282289E+n1	.292162E+01	.313006E+01	.330160E+01	.390286E+01	.372133E+01
.160594E+01	.195601E+n1	.218261E+01	.239840E+01	.242682E+01	.348788E+01	.329705E+01
.519996E+00	.661735E+n00	.585947E+00	.535775E+00	.637925E+00	.451651E+00	.414979E+00
.256637E-n02	.111245E+00	.213153E+00	.208340E+00	.179940E+00	.776359E-01	.123839E-01
.231729E-n01	.140493E-n01	.497904E-n01	.132154E-n01	.543377E-n01	.233036E-n01	.162021E-n01
0.	0.	.121574E+01	.321041E-01	.638254E-01	.896226E-02	0.
n.	0.	0.	.100702E-01	.226611E-n02	.189169E-01	.681398E-02
n.	0.	0.	0.	.223222E-n02	.128804E-02	0.
0.	0.	0.	0.	0.	0.	.591491E-03
0.	0.	0.	0.	0.	0.	0.
.207479E-02	.254462E-02	.271797E-02	.258281E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	.400504E-02	0.	0.
0.	0.	0.	0.	0.	.233360E-02	0.
0.	0.	0.	0.	0.	0.	.114482E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
-.200000E-05	-.900000E-05	-.470000E-05	.200000E-06	-.300000E-05	-.600000E-05	.500000E-06
n.	0.	0.	0.	0.	0.	0.
.399300E+01	.617330E+01	.528622E+01	.4955002E+00	.237451E+01	.142391E+01	.139709E+01
.342681E+01	.604921E+01	.524421E+01	.463881E+00	.227239E+01	.132082E+01	.129755E+01
.424276E+00	.566192E+00	.124099E+00	.420147E-01	.911208E-01	.102123E+00	.103096E+00
0.	0.	0.	0.	0.	0.	0.
.768549E-02	.298164E-n02	.790166E-n04	0.	0.	0.	0.
n.	0.	0.	0.	0.	0.	0.
.179361E-02	.482124E-n3	0.	0.	0.	0.	0.
n.	0.	0.	0.	0.	0.	0.
.246785E-03	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.498809E-03	.285236E-03	0.	0.	0.	0.	0.
n.	0.	0.	0.	0.	0.	0.
0.	0.	.422567E-04	0.	0.	0.	0.
0.	0.	0.	.588111E-05	0.	0.	0.
0.	0.	0.	0.	.805687E-06	0.	0.
0.	0.	0.	0.	0.	.199090E-06	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
-.400000E-06	.004000E+00	.006000E+00	.010000E+00	.016000E+00	.026000E+00	.043000E+00
0.	0.	0.	0.	0.	0.	0.
.136007E+01	.138517E+01	.139371E+01	.131450E+01	.139055E+01	.140437E+01	.142521E+01
.126158E+01	.128619E+01	.128810E+01	.127212E+01	.127504E+01	.127817E+01	.128753E+01
.995395E-01	.984904E-01	.100985E+00	.996040E-01	.994318E-01	.995138E-01	.100197E+00
n.	0.	0.	0.	0.	0.	0.



Neutron ID = 12, Atomic No. = 13, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.229227E+00	.252938E+00	.244146E+00	.267442E+00	.277228E+00	.465755E+00	.621702E+00
0.	-.315104E-01	-.111699E-02	-.694835E-02	-.953278E-02	-.137612E-01	-.362588E-01
0.	0.	.689055E-02	.147608E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.887150E+00	.101033E+01	.105333E+01	.111626E+01	.106338E+01	.969675E+00	.630444E+00
-.147610E-01	-.232504E-01	-.188130E-01	-.267130E-01	-.460504E-01	-.385911E-01	-.995856E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.580403E+00	.424239E+00	.228367E+00	.549677E-01	.904062E-01	.675252E-01	.657500E-01
-.101496E+00	-.188864E+00	-.437063E-01	-.137258E-01	-.286142E-01	-.323287E-01	-.326911E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.644633E-01	.657715E-01	.655299E-01	.650236E-01	.651408E-01	.654508E-01	.653834E-01
-.315805E-01	-.311815E-01	-.319715E-01	-.315715E-01	-.314666E-01	-.315243E-01	-.317405E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.656595E-01	.390356E-01	.177107E-01	.220241E-01	.281393E-01	.371944E-01	.514365E-01
-.315791E-01	-.317344E-01	0.	.366135E-01	.457000E-01	.586314E-01	.779156E-01
0.	0.	0.	0.	.368216E-01	.460264E-01	.591726E-01
0.	0.	0.	0.	0.	.376706E-01	.474130E-01
0.	0.	0.	0.	0.	0.	.394761E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.757301E-01	.122307E+00	.229531E+00	.570269E+00	.987431E+00	.115290E+01	.497209E+00
.108475E+00	.141012E+00	.262049E+00	.484520E+00	.538252E+00	.539567E+01	-.128805E+00
.788773E-01	.110336E+00	.164929E+00	.267600E+00	.195472E+00	-.215720E+00	0.
.615985E-01	.835208E-01	.120305E+00	.187196E+00	.120049E+00	-.163081E+00	0.
.504806E-01	.672575E-01	.951322E-01	.145297E+00	.868242E-01	-.125958E+00	0.
.427959E-01	.564241E-01	.790074E-01	.119326E+00	.676936E-01	-.100819E+00	0.
0.	.487054E-01	.677695E-01	.101594E+00	.555040E-01	-.843104E-01	0.
0.	0.	.594625E-01	.885748E-01	.470152E-01	-.723983E-01	0.
0.	0.	0.	.786085E-01	.407600E-01	-.634149E-01	0.
0.	0.	0.	0.	.359439E-01	-.564049E-01	0.
0.	0.	0.	0.	0.	-.507851E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 12, Atomic No. = 13, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.142497E+00	.164642E+00	.136279E+00	.140379E+00	.169516E+00	.294064E+00	.369998E+00
0.	-.324142E-01	-.477628E-01	-.172808E-01	.117410E-02	.173315E-01	.393081E-01
0.	0.	-.913262E-02	-.107980E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.645556E-01	.635219E-01	.141287E-01	.132787E-02	.125331E-02	.114372E-02	.111989E-02
-.158235E-01	.953133E-02	.266559E-02	.654446E-04	-.105329E-02	-.102408E-02	-.999065E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.113070E-02	.115983E-02	.112130E-02	.112627E-02	.113216E-02	.111966E-02	.111649E-02
-.986099E-03	-.982803E-03	-.100759E-02	-.973215E-03	-.980348E-03	-.982130E-03	-.989406E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.114552E-02	.212540E-03	.176448E-01	.219259E-01	.279721E-01	.369008E-01	.508710E-01
-.985945E-03	-.988664E-03	0.	.361552E-01	.444756E-01	.574161E-01	.757124E-01
0.	0.	0.	0.	.357636E-01	.443176E-01	.562206E-01
0.	0.	0.	0.	0.	.357839E-01	.442637E-01
0.	0.	0.	0.	0.	0.	.363381E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.744911E-01	.119015E+00	.217480E+00	.446571E+00	.713655E+00	.617005E+00	.753278E+00
.104036E+00	.150605E+00	.231081E+00	.342286E+00	.460973E+00	.572602E+00	.681748E+00
.732963E-01	.981408E-01	.133439E+00	.147948E+00	.150409E+01	-.134278E+00	0.
.558921E-01	.718944E-01	.917450E-01	.876663E-01	-.618442E-01	-.654275E-01	0.
.449578E-01	.563898E-01	.695345E-01	.602154E-01	-.562253E-01	-.406457E-01	0.
.375476E-01	.463397E-01	.558975E-01	.450026E-01	-.527788E-01	-.287190E-01	0.
0.	.393405E-01	.467278E-01	.355040E-01	-.476493E-01	-.219067E-01	0.
0.	0.	.401541E-01	.240944E-01	-.431948E-01	-.175702E-01	0.
0.	0.	0.	.245086E-01	-.349356E-01	-.145978E-01	0.
0.	0.	0.	0.	-.361563E-01	-.124474E-01	0.
0.	0.	0.	0.	0.	-.108268E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 12, Atomic No. = 13, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.726140E-01	.761286E-01	.683850E-01	.765750E-01	.766500E-01	.114244E+00	.112698E+00
0.	.510725E-01	.355628E-01	.246445E-01	.459514E-02	-.675191E-02	-.227720E-01
0.	0.	.969009E-02	.723379E-03	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.125981E+00	.110769E+00	.929669E-01	.825386E-01	.697888E-01	.213127E-01	-.357160E-02
-.191990E-01	-.340487E-01	-.352672E-01	-.254251E-01	-.176946E-01	-.121051E-01	-.511600E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.688752E-02	.317767E-02	-.507944E-02	-.196734E-03	-.597701E-03	-.338056E-03	-.314926E-03
-.606201E-02	-.649112E-02	-.101088E-02	-.189149E-03	-.243433E-04	-.154066E-04	-.224121E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.388060E-03	-.369789E-03	-.319217E-03	-.315678E-03	-.310907E-03	-.340109E-03	-.338442E-03
-.268873E-04	-.245109E-04	-.280065E-04	-.249741E-04	-.244539E-04	-.266744E-04	-.183992E-04
0.	0.	0.	0.	0.	0.	0.



GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.305422E-03	-.363458E-03	.175464E-01	.217734E-01	.277226E-01	.364637E-01	.500317E-01
-.213504E-04	-.294275E-04	0.	.354740E-01	.439010E-01	.556211E-01	.724765E-01
0.	0.	0.	0.	.342063E-01	.418166E-01	.519371E-01
0.	0.	0.	0.	0.	.330442E-01	.397398E-01
0.	0.	0.	0.	0.	0.	.316673E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.724616E-01	.114204E+00	.206323E+00	.379548E+00	.442011E+00	.189529E+00	.596006E-01
.975802E-01	.135748E+00	.188786E+00	.178524E+00	.108864E+00	.155847E+00	-.559690E-02
.653129E-01	.816335E-01	.921706E-01	.226654E-01	.149543E+00	.111577E-01	0.
.476385E-01	.560047E-01	.555091E-01	-.102451E-01	.109987E+00	.406299E-01	0.
.372470E-01	.417527E-01	.376826E-01	-.199942E-01	.854080E-01	.370953E-01	0.
.302816E-01	.329107E-01	.275955E-01	-.229868E-01	.694558E-01	.319242E-01	0.
0.	.269820E-01	.212826E-01	-.235341E-01	-.584957E-01	.275941E-01	0.
0.	0.	.170403E-01	-.231087E-01	-.503151E-01	.241637E-01	0.
0.	0.	0.	-.222904E-01	-.441685E-01	.214374E-01	0.
0.	0.	0.	0.	.793429E-01	.192384E-01	0.
0.	0.	0.	0.	0.	.174352E-01	0.
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 14, Atomic No. = 14, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. n. .592083E+00 0. 0. n.	0. 0. 0. .542693E+00 .373573E-01 0. 0.	0. 0. 0. .499813E+00 .286342E-01 -.662850E-02 0.	0. 0. 0. .426383E+00 .786743E-02 -.475543E-02 0.	0. 0. 0. .428100E+00 -.366090E-02 0. 0.	0. 0. 0. .559323E+00 -.574983E-02 0. 0.	0. 0. 0. .740940E+00 -.274989E-01 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .856920E+00 -.247941E-01 0.	0. 0. 0. .104182E+01 -.719070E-01 0.	0. 0. 0. .125982E+01 -.669400E-01 0.	0. 0. 0. .946820E+00 -.149176E+00 0.	0. 0. 0. .131429E+01 -.110935E+00 0.	0. 0. 0. .672713E+00 .391067E-02 0.	0. 0. 0. .415860E+00 -.123870E+00 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. n. .807000E+00 -.995477E-01 0.	0. 0. 0. .613807E-01 -.371810E+00 0.	0. 0. 0. .689370E-01 -.166081E-01 0.	0. 0. 0. .843737E-01 -.317195E-01 0.	0. 0. 0. .986757E-01 -.436423E-01 0.	0. 0. 0. .994097E-01 -.477593E-01 0.	0. 0. 0. .992737E-01 -.479323E-01 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. n. n. .993037E-01 -.477963E-01 0.	0. 0. 0. .992807E-01 -.478263E-01 0.	0. 0. 0. .993343E-01 -.478033E-01 0.	0. 0. 0. .993427E-01 -.478570E-01 0.	0. 0. 0. .992967E-01 -.478653E-01 0.	0. 0. 0. .994910E-01 -.478193E-01 0.	0. 0. 0. .991130E-01 -.480140E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. n. .992137E-01 -.476357E-01 n. n. n. 0.	0. 0. 0. .514773E-01 -.477363E-01 0.	0. 0. 0. .190730E-01 0. 0. 0. 0.	0. 0. 0. .237225E-01 .394299E-01 0. 0. 0. 0.	0. 0. 0. .303039E-01 .492154E-01 .396540E-01 0. 0. 0.	0. 0. 0. .400555E-01 .631415E-01 .495669E-01 .405694E-01 0. 0.	0. 0. 0. .553931E-01 .839092E-01 .637243E-01 .510602E-01 .425127E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. n. .815555E-01 .116919E+00 .449449E-01 .663369E-01 .543630E-01 .460879E-01 n. n. n. n. n.	0. 0. 0. .131716E+00 .173398E+00 .118823E+00 .899455E-01 .724312E-01 .607644E-01 .524520E-01 n. n. n. n. n.	0. 0. 0. .247188E+00 .282207E+00 .177616E+00 .129559E+00 .102450E+00 .850849E-01 .729826E-01 .640365E-01 0. 0. 0. 0. 0.	0. 0. 0. .614136E+00 .521791E+00 .288244E+00 .201596E+00 .156473E+00 .128539E+00 .109348E+00 .453843E-01 .846532E-01 0. 0. 0. 0. 0.	0. 0. 0. .100339E+01 .579657E+00 .210509E+00 .129244E+00 .932876E-01 .729008E-01 .597790E-01 .406318E-01 .438954E-01 .387304E-01 0. 0. 0. 0. 0.	0. 0. 0. .124159E+01 .581072E-01 -.232314E+00 -.175625E+00 -.134674E+00 -.108574E+00 -.907959E-01 -.779674E-01 -.662930E-01 -.607437E-01 -.546916E-01 0. 0. 0. 0. 0.	0. 0. 0. .535456E+00 -.138713E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 14, Atomic No. = 14, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. n. .477692E+00 0. n. n.	0. 0. 0. .440122E+00 -.419124E-02 0. 0.	0. 0. 0. .399198E+00 -.476846E-02 .466276E-02 0.	0. 0. 0. .338612E+00 .335664E-02 .377534E-02 0.	0. 0. 0. .338382E+00 .839046E-02 0. 0.	0. 0. 0. .421708E+00 .182162E-01 0. 0.	0. 0. 0. .566196E+00 .367152E-01 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .523334E+00 .227170E-01 0.	0. 0. 0. .596576E+00 .282290E-01 0.	0. 0. 0. .612080E+00 .173660E-01 0.	0. 0. 0. .618344E+00 .214144E-01 0.	0. 0. 0. .416796E+00 .270430E-01 0.	0. 0. 0. .183116E+00 -.266978E-01 0.	0. 0. 0. .229852E-01 .230120E-01 0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.286944E-01	.901718E-03	.143800E-02	.196375E-02	.198560E-02	.199685E-02	.199276E-02
-.119668E-01	-.153183E-01	-.423136E-03	-.103643E-02	-.152482E-02	-.143691E-02	-.144212E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.199366E-02	.199297E-02	.199459E-02	.199484E-02	.199346E-02	.199930E-02	.198792E-02
-.143803E-02	-.143893E-02	-.143824E-02	-.143985E-02	-.144010E-02	-.143872E-02	-.144457E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.199096E-02	.554736E-03	.190021E-01	.236126E-01	.301238E-01	.397393E-01	.547842E-01
-.143319E-02	-.143622E-02	0.	.389363E-01	.484353E-01	.618328E-01	.815364E-01
0.	0.	0.	0.	.385146E-01	.477266E-01	.605452E-01
0.	0.	0.	0.	0.	.385365E-01	.476686E-01
0.	0.	0.	0.	0.	0.	.391333E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.802212E-01	.128170E+00	.234209E+00	.524000E+00	.768551E+00	.664467E+00	.811222E+00
.112039E+00	.162190E+00	.248856E+00	.368616E+00	.173355E+00	-.135714E+00	.346498E-01
.789345E-01	.105905E+00	.143703E+00	.159372E+00	-.542875E-01	-.144607E+00	0.
.681915E-01	.774248E-01	.988454E-01	.944044E-01	-.666014E-01	-.704604E-01	0.
.484161E-01	.607275E-01	.748887E-01	.648476E-01	-.627042E-01	-.437723E-01	0.
.404359E-01	.499043E-01	.601074E-01	.484643E-01	-.568387E-01	-.309282E-01	0.
0.	.423667E-01	.503222E-01	.382344E-01	-.511146E-01	-.235914E-01	0.
0.	0.	.432428E-01	.313318E-01	-.465175E-01	-.189217E-01	0.
0.	0.	0.	.263939E-01	-.424260E-01	-.157207E-01	0.
0.	0.	0.	0.	-.389376E-01	-.134049E-01	0.
0.	0.	0.	0.	0.	-.116596E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 14, Atomic No. = 14, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.388756E+00	.358434E+00	.324940E+00	.272926E+00	.254363E+00	.268514E+00	.264169E+00
0.	-.609637E-02	-.546501E-02	-.343516E-02	-.260289E-02	-.513777E-02	-.191436E-01
0.	0.	-.264449E-02	-.261453E-02	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.268414E+00	.287179E+00	.199139E+00	.120244E+00	.571367E-01	.214703E-01	.454629E-03
-.185740E-01	-.184341E-01	-.260657E-01	-.119688E-01	-.531611E-01	-.186070E-01	-.127399E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.715440E-02	.898879E-05	.144873E-04	.256421E-04	.192581E-04	.193280E-04	.192733E-04
-.251650E-03	.736937E-02	.241793E-04	-.144873E-04	-.256421E-04	-.192581E-04	-.193280E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.192853E-04	.192760E-04	.192977E-04	.193010E-04	.192824E-04	.193609E-04	.192884E-04
-.192733E-04	-.192853E-04	-.192760E-04	-.192977E-04	-.193010E-04	-.192824E-04	-.193609E-04
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.192490E-04	0.	.188962E-01	.234403E-01	.298551E-01	.392666E-01	.538803E-01
-.192084E-04	-.192490E-04	0.	.382027E-01	.472787E-01	.598996E-01	.780516E-01
0.	0.	0.	0.	.368376E-01	.450332E-01	.559322E-01
0.	0.	0.	0.	0.	.355861E-01	.427967E-01
0.	0.	0.	0.	0.	0.	.343187E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.782510E-01	.122989E+00	.215733E+00	.408733E+00	.452428E+00	.204188E+00	.641853E-01
.185088E+00	.146190E+00	.203308E+00	.192257E+00	-.117238E+00	-.167836E+00	-.802743E-02
.703369E-01	.879129E-01	.992607E-01	.244015E-01	-.161047E+00	.120160E-01	0.
.515184E-01	.603149E-01	.597790E-01	-.110342E-01	-.118448E+00	.437553E-01	0.
.401122E-01	.449644E-01	.405813E-01	-.215365E-01	-.919778E-01	.399489E-01	0.
.376189E-01	.354423E-01	.297182E-01	-.247550E-01	-.747986E-01	.343799E-01	0.
0.	.290575E-01	.229198E-01	-.253444E-01	-.628876E-01	.297167E-01	0.
0.	0.	.183511E-01	-.248864E-01	-.541855E-01	.260224E-01	0.
0.	0.	0.	-.240044E-01	-.475661E-01	.230864E-01	0.
0.	0.	0.	0.	-.423692E-01	.207183E-01	0.
0.	0.	0.	0.	0.	.187764E-01	0.
0.	0.	0.	0.	0.	0.	0.

CHLORINE (Cl)

Neutron ID = 43, Atomic No. = 17, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.138895E+00	.164205E+00	.195927E+00	.209847E+00	.270435E+00	.213896E+00	.145653E+00
0.	0.	0.	0.	0.	0.	0.
.202569E+01	.206209E+01	.208879E+01	.213362E+01	.233273E+01	.256224E+01	.285111E+01
.813919E+00	.829395E+00	.936999E+00	.996811E+00	.118815E+01	.144753E+01	.186661E+01
n.	.207866E+00	.217795E+00	.136345E+00	.119028E+00	.151499E+00	.318979E+00
n.	0.	.380844E-02	.727544E-02	.704161E-01	.366250E-01	.132205E+00
n.	0.	0.	.926944E-02	.246358E-01	.445797E-01	.158386E+00
n.	0.	0.	0.	.791105E-01	.503112E-01	.172847E+00
n.	0.	0.	0.	0.	.556333E-01	.180741E+00
n.	0.	0.	0.	0.	0.	.185387E+00
n.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.719277E-01	.439833E-01	.250399E-01	.141725E-01	.610616E-02	.228500E-02	.116900E-02
0.	0.	0.	0.	0.	0.	0.
.312477E+01	.308152E+01	.292105E+01	.270254E+01	.237075E+01	.221931E+01	.231085E+01
.238183E+01	.218524E+01	.222540E+01	.220040E+01	.218771E+01	.204406E+01	.215782E+01
.796436E+00	.359301E+00	.390991E+00	.404459E+00	.395388E+00	.174512E+00	.168965E+00
.165053E+00	.168084E+00	.817964E-01	.346334E-01	.152731E-01	0.	0.
.101532E+00	.889307E-01	.122189E+00	.1491.7E+00	.194394E+00	.100394E+00	.394635E-01
.108958E+00	.108920E+00	.908142E-01	.783802E-01	.163096E+00	.164282E+00	.651656E-01
.110#22E+00	.118444E+00	.103541E+00	.604533E-01	.109494E+00	.958162E-01	.560953E-01
.110168E+00	.108351E+00	.100434E+00	.891140E-01	.924233E-01	.404414E-01	.707863E-01
.109134E+00	.105002E+00	.957887E-01	.834874E-01	.123439E+00	.477935E-01	.150495E-01
0.	.111515E+00	.989967E-01	.778880E-01	.111553E+00	.643839E-01	.218509E-01
0.	0.	.968244E-01	.728452E-01	.101716E+00	.562529E-01	.293899E-01
0.	0.	0.	.778302E-01	.112912E+00	.501991E-01	.251492E-01
0.	0.	0.	0.	.100758E+00	.599040E-01	.221480E-01
0.	0.	0.	0.	0.	.494488E-01	.268057E-01
0.	0.	0.	0.	0.	0.	.217756E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.760000E-03	.189600E-02	.816700E-02	.115610E-01	.212741E-01	.163960E-01	.132739E+00
0.	0.	0.	0.	0.	0.	0.
.208959E+01	.203571E+01	.317950E+01	.284664E+01	.244125E+01	.174402E+01	.245924E+01
.175210E+01	.187327E+01	.265501E+01	.271802E+01	.234409E+01	.162320E+01	.218196E+01
.151861E+00	.336730E+00	.160544E+00	.516323E+00	.117059E+00	.758859E-01	.104424E+00
0.	0.	0.	0.	0.	0.	0.
.332490E-01	.688213E-03	0.	0.	0.	0.	0.
.487085E-01	.228670E-01	.111734E-02	0.	0.	0.	0.
.541153E-02	.361710E-01	0.	0.	0.	0.	0.
.357789E-01	.592889E-02	.376141E-03	.409344E-03	0.	0.	0.
.570689E-02	.147576E-01	.495245E-03	.533946E-04	.150632E-03	0.	0.
.914508E-02	.735099E-02	.407959E-03	.647214E-04	.747013E-05	.550381E-04	.127202E-05
.122351E-01	.459765E-02	.315744E-03	.571537E-04	.959352E-05	0.	0.
.103373E-01	.676841E-02	.674817E-03	.439154E-04	.784873E-05	0.	0.
.903025E-02	.566703E-02	.977970E-03	.816692E-04	0.	0.	0.
.110335E-01	.492217E-02	.813328E-03	.134847E-03	.111633E-04	0.	0.
.887359E-02	.685718E-02	.703398E-03	.111866E-03	.184100E-04	0.	0.
0.	.483635E-02	.870412E-03	.965942E-04	.152586E-04	0.	0.
0.	0.	.799069E-03	.136754E-03	.131677E-04	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.306936E+00	.249435E+00	.646008E+00	.125855E+01	.224091E+01	.396378E+01	.669081E+01
0.	0.	0.	0.	0.	0.	0.
.459#27E+01	.712175E+01	.115946E+02	.151218E+02	.179862E+02	.198239E+02	.224734E+02
.399848E+01	.636960E+01	.102528E+02	.130302E+02	.148522E+02	.149795E+02	.148968E+02
.144541E+00	.292854E+00	.502715E+00	.695742E+00	.833048E+00	.893094E+00	.880620E+00
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 43, Atomic No. = 17, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.494590E+00	.703610E+00	.716417E+00	.737230E+00	.903210E+00	.110767E+01	.123562E+01
0.	.250173E-01	-.229374E-01	-.223238E-01	-.131039E-01	-.379270E-02	-.532840E-02
0.	0.	-.958837E-03	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.123988E+01	.117420E+01	.109557E+01	.101820E+01	.810770E+00	.657313E+00	.506953E+00
-.200203E-01	-.539717E-01	-.658950E-01	-.674420E-01	-.627090E-01	-.327783E-01	-.342103E-01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.295938E+00	.116682E+00	.204779E+00	.906353E-01	.693267E-01	.657743E-01	.903837E-01
-.393647E-01	-.854720E-01	-.524057E-01	-.144627E-00	-.368613E-01	-.234259E-01	-.330059E-01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.174596E+00	.289850E+00	.429480E+00	.529243E+00	.585027E+00	.583247E+00	.583200E+00
-.462560E-01	-.932003E-01	-.159500E-00	-.221792E+00	-.268294E+00	-.286381E+00	-.282421E+00
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.592643E+00	.304836E+00	.231601E-01	.288054E-01	.367975E-01	.486389E-01	.672631E-01
-.283846E+00	-.287807E+00	0.	-.478792E-01	.597616E-01	.766719E-01	.101890E+00
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.990317E-01	.159940E+00	.300156E+00	.745736E+00	.129126E+01	.150764E+01	.650196E+00
.141851E+00	.210554E+00	.342680E+00	.633604E+00	.703869E+00	.705588E-01	-.168437E+00
.103147E+00	.144286E+00	.215676E+00	.350011E+00	.755617E+00	-.282094E+00	0.
.805519E-01	.109219E+00	.157321E+00	.244745E+00	.156987E+00	-.213259E+00	0.
.660122E-01	.79521E-01	.124404E+00	.190003E+00	.114278E+00	-.163532E+00	0.
.559639E-01	.737853E-01	.103317E+00	.156084E+00	.885724E+00	-.131841E+00	0.
0.	.636917E-01	.886217E-01	.132804E+00	.725887E-01	-.110252E+00	0.
0.	0.	.777586E-01	.115824E+00	.614815E-01	-.946747E-01	0.
0.	0.	0.	.102743E+00	.933015E-01	-.829272E-01	0.
0.	0.	0.	0.	.470297E-01	-.737602E-01	0.
0.	0.	0.	0.	0.	-.664112E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 43, Atomic No. = 17, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.567880E+00	.553152E+00	.548528E+00	.588208E+00	.728432E+00	.862380E+00	.895612E+00
0.	-.393012E-02	-.214644E-01	.524442E-02	.827400E-02	.194639E-01	.882120E-01
0.	0.	.859302E-03	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0.
.832590E+00	.735408E+00	.629294E+00	.523280E+00	.368836E+00	.228310E+00	.142227E+00
.314522E-01	.493418E-01	.447372E-01	.331956E-01	.204318E-01	.727274E-03	-.651404E-02
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .667798E-01 -.511742E-02 0.	0. 0. 0. .104705E-01 -.112957E-01 0.	0. 0. 0. .143669E-01 -.175566E-02 0.	0. 0. 0. .172318E-02 -.138535E-01 0.	0. 0. 0. .130335E-02 -.126415E-02 0.	0. 0. 0. .124308E-02 -.911524E-03 0.	0. 0. 0. .152147E-02 -.963356E-03 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .330292E-02 -.114478E-02 0.	0. 0. 0. .587000E-02 -.260810E-02 0.	0. 0. 0. .776416E-02 -.475728E-02 0.	0. 0. 0. .998148E-02 -.599144E-02 0.	0. 0. 0. .925896E-02 -.673684E-02 0.	0. 0. 0. .916090E-02 -.670962E-02 0.	0. 0. 0. .932268E-02 -.659296E-02 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .941160E-02 -.676730E-02 0. 0. 0. 0.	0. 0. 0. .260216E-02 -.680944E-02 0. 0. 0. 0.	0. 0. 0. .230740E-01 0. 0. 0. 0. 0.	0. 0. 0. .286724E-01 -.472748E-01 0. 0. 0. 0.	0. 0. 0. .365788E-01 .588143E-01 -.467678E-01 0. 0. 0. 0.	0. 0. 0. .482549E-01 .750827E-01 .579538E-01 .467944E-01 0. 0. 0. 0.	0. 0. 0. .665237E-01 .990085E-01 .735192E-01 .578833E-01 .475198E-01 0. 0. 0. 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .974115E-01 .136047E+00 .958490E-01 .730496E-01 .587910E-01 .491007E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .155635E+00 .196945E+00 .128599E+00 .948158E-01 .737405E-01 .605981E-01 .514453E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .284397E+00 .302183E+00 .174497E+00 .120027E+00 .909362E-01 .730968E-01 .611055E-01 .525092E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .636286E+00 .447605E+00 .193523E+00 .114645E+00 .787435E-01 .588495E-01 .484335E-01 .380458E-01 .320447E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .933241E+00 .210503E+00 -.659206E-01 -.808731E-01 -.761408E-01 -.690184E-01 .623106E-01 -.568955E-01 .515173E-01 -.472814E-01 0. 0. 0. 0.	0. 0. 0. .806853E+00 -.164799E+00 -.175594E+00 -.855590E-01 -.531521E-01 -.375556E-01 -.286467E-01 -.229764E-01 -.190895E-01 -.162774E-01 -.141581E-01 0. 0. 0. 0.	0. 0. 0. .985056E+00 .420748E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 43, Atomic No. = 17, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .478357E+00 0. 0. 0.	0. 0. 0. .439224E+00 -.560291E-02 0. 0.	0. 0. 0. .455101E+00 -.103507E-02 -.723949E-03 0.	0. 0. 0. .473433E+00 -.500676E-03 0. 0.	0. 0. 0. .551387E+00 .393489E-02 0. 0.	0. 0. 0. .593136E+00 .722744E-02 0. 0.	0. 0. 0. .495824E+00 -.174550E-02 0. 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .381987E+00 -.145641E-01 0.	0. 0. 0. .280126E+00 -.317218E-01 0.	0. 0. 0. .194824E+00 -.385417E-01 0.	0. 0. 0. .128296E+00 -.396311E-01 0.	0. 0. 0. .512630E-01 .368563E-01 0.	0. 0. 0. .215069E-01 -.103850E-01 0.	0. 0. 0. .935107E-02 -.527636E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .510709E-02 -.175749E-02 0.	0. 0. 0. -.491147E-03 -.206780E-02 0.	0. 0. 0. -.240020E-02 .867154E-03 0.	0. 0. 0. .326350E-04 .240020E-02 0.	0. 0. 0. .337377E-03 -.326350E-04 0.	0. 0. 0. .876097E-04 -.337377E-03 0.	0. 0. 0. .734289E-05 -.876097E-04 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .376103E-04 -.734289E-05 0.	0. 0. 0. .731847E-04 -.734103E-04 0.	0. 0. 0. .827247E-04 -.731847E-04 0.	0. 0. 0. .910196E-04 -.827247E-04 0.	0. 0. 0. .798877E-04 -.910196E-04 0.	0. 0. 0. .782157E-04 -.798877E-04 0.	0. 0. 0. .820019E-04 -.782157E-04 0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.018776E-04	0.	.229454E-01	.284730E-01	.362527E-01	.476833E-01	.654261E-01
-.820019E-04	-.818776E-04	0.	.463840E-01	.574098E-01	.727351E-01	.947770E-01
0.	0.	0.	0.	.447314E-01	.546832E-01	.679177E-01
0.	0.	0.	0.	0.	.432117E-01	.519674E-01
0.	0.	0.	0.	0.	0.	.416727E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.950190E-01	.149344E+00	.261961E+00	.496319E+00	.544377E+00	.247845E+00	.779392E-01
.127605E+00	.177517E+00	.246874E+00	.233455E+00	-.142360E+00	-.203800E+00	-.731902E-02
.854091E-01	.106751E+00	.120531E+00	.296394E-01	-.195557E+00	.145909E-01	0.
.625581E-01	.732395E-01	.725888E-01	-.133975E-01	-.143630E+00	.531314E-01	0.
.487076E-01	.545997E-01	.492773E-01	-.261515E-01	-.111687E+00	.485093E-01	0.
.395990E-01	.430370E-01	.360864E-01	-.300546E-01	-.908264E-01	.417471E-01	0.
0.	.352841E-01	.278311E-01	-.307754E-01	-.763636E-01	.360846E-01	0.
0.	0.	.222835E-01	-.307190E-01	-.657967E-01	.315987E-01	0.
0.	0.	0.	-.291488E-01	-.577588E-01	.280336E-01	0.
0.	0.	0.	0.	-.514484E-01	.251579E-01	0.
0.	0.	0.	0.	0.	.227999E-01	0.
0.	0.	0.	0.	0.	0.	0.

ARGON (A)

Neutron ID = 37, Atomic No. = 18, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
-.737924E+00 0. .209944E+01 .626294E+00 0. 0. 0. 0. 0. 0.	-.407533E+00 0. .200721E+01 .687426E+00 .318043E+00 0. 0. 0. 0. 0. 0.	-.957646E-01 0. .149800E+01 .801539E+00 .271618E+00 .463107E-04 0. 0. 0. 0. 0.	.587038E-05 0. .207922E+01 .876541E+00 .165807E+00 .503885E-03 .273340E-03 0. 0. 0. 0.	.467182E-00 0. .237308E+01 .110083E+01 .143699E+00 .451283E-04 .310872E-04 .168107E-02 0. 0. 0.	.953809E-05 0. .263890E+01 .132348E+01 .202191F+00 .162515E-01 .160210E-01 .106785F-01 .575888E-02 0. 0.	-.341191E+05 0. .287624E+01 .162272E+01 .311666E+00 .109125E+00 .119299E+00 .109638E+00 .702467E-01 .377618E-01 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.258729E-05 0. .292338E+01 .181618E+01 .228311E+00 .103097E+00 .110376E+00 .113935E+00 .100421E+00 .628266E-01 .945887E+00 0. 0. 0. 0. 0.	.219001E-05 0. .272836E+01 .203004E+01 .350386E+00 .105898E+00 .134377E+00 .137241E+00 .137299E+00 .118291E+00 .327276E+00 .722675E+00 0. 0. 0. 0. 0.	.540878E-05 0. .245756E+01 .200443E+01 .350691E+00 .889147E-01 .137771E+00 .148868E+00 .146460E+00 .142950E+00 .243569E+00 .720478E+00 .396143E-01 0. 0. 0. 0. 0.	.357888E-06 0. .218779E+01 .185346E+01 .362691E+00 .500964E+00 .109813E+00 .152034E+00 .144444E+00 .138010E+00 .132128E+00 .209419E+00 .688987E-01 .357944E-01 0. 0. 0.	.400000E-09 0. .183021E+01 .167763E+01 .325905E+00 .718844E-01 .111023E+00 .223001E+00 .274264E+00 .227037E+00 .210154E+00 .197167E+00 .163088E+00 .975687E-01 .621761E-01 0. 0. 0.	-.820000E-05 0. .149970E+01 .142443E+01 .152576E+00 .354223E-02 .271077E-01 .887545E+00 .165003E+00 .182734E+00 .133141F+00 .119701F+00 .110220E+00 .894429E-01 .533950F-01 .285355E-01 0. 0.	-.280000E-05 0. .108687E+01 .100622E+01 .750782E-01 0. .229218E-02 .168999E-01 .528208E-01 .935722E-01 .971526E-01 .653436E-01 .576916E-01 .525112F-01 .422570E-01 .251065E-01 .134122F-01 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.500000E-06 0. .990437E+00 .902394E+00 .806528E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	-.700000E-06 0. .977222E+00 .933028E+00 .970425E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	-.100000E-06 0. .808710E+00 .771817E+00 .442027E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.600000E-06 0. .718883E+00 .684470E+00 .368931E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.400000E-06 0. .899843E+00 .665470E+00 .344124E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	-.100000E-06 0. .699833F+00 .665335E+00 .343726E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.400000E-06 0. .699841E+00 .665441E+00 .344961E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.720380E-02 0. .707044E+00 .665419E+00 .343996E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.327634E-01 0. .732604E+00 .645436E+00 .344212E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.439935E-01 0. .743831E+00 .665344E+00 .344046E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.481225E-01 0. .747960E+00 .665388E+00 .344435E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.496417E-01 0. .744682E+00 .665424E+00 .344495E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.648805E-01 0. .783041E+00 .682046E+00 .344163E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	.109044E+00 0. .848297E+00 .702799E+00 .361145E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
.183519E+00	.560000E+00	.680370E+00	.623983E+00	.560188E+00	.487957E+00	.406473E+00
0.	0.	0.	0.	0.	0.	0.
.930533E+00	.112147E+01	.163323E+01	.145653E+01	.168910E+01	.173613E+01	.180677E+01
.710252E+00	.561466E+00	.245681E-01	.305713E-01	.390783E-01	.517047E-01	.716137E-01
.364543E-01	.367616E-01	0.	.510147E-01	.637820E-01	.820311E-01	.109428E+00
0.	0.	0.	0.	.517245E-01	.649294E-01	.840157E-01
0.	0.	0.	0.	0.	.534910E-01	.678859E-01
0.	0.	0.	0.	0.	0.	.568989E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.315429E+00	.215724E+00	.111581E+00	.234617E-01	.131148E-01	.427780E+00	.233025E+03
0.	0.	0.	0.	0.	0.	0.
.191781E+01	.210260E+01	.243726E+01	.315277E+01	.441630E+01	.699604E+01	.243061E+03
.105723E+00	.171664E+00	.326420E+00	.853231E+00	.159698E+01	.607827E+01	.100358E+02
.153325E+00	.230359E+00	.385494E+00	.785384E+00	.116784E+01	.280621E+01	.489985E+00
.113189E+00	.161448E+00	.251943E+00	.471634E+00	.788514E+00	.114889E+01	0.
.89385E-01	.124145E+00	.188286E+00	.345771E+00	.833119E+00	.647957E+00	0.
.938830E-01	.101138E+00	.151414E+00	.274667E+00	.947495E+00	.454831E+00	0.
.630446E-01	.856074E-01	.127351E+00	.237129E+00	.107543E+01	.350817E+00	0.
0.	.744217E-01	.110295E+00	.200678E+00	.120046E+01	.285619E+00	0.
0.	.560000E+00	.975177E-01	.177079E+00	.131673E+01	.240887E+00	0.
0.	.183519E+00	.560000E+00	.158673E+00	.142249E+01	.208281E+00	0.
0.	0.	.183519E+00	0.	.151784E+01	.183455E+00	0.
0.	0.	0.	0.	0.	.163919E+00	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 37, Atomic No. = 18, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.416296E+00	.492518E+00	.465731E+00	.476378E+00	.597289E+00	.712378E+00	.806606E+00
0.	.685859E-02	-.550111E-01	-.278882E-01	-.173133E-01	-.159023E-01	-.191004E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.963673E+00	.183184E+01	.860333E+00	.652714E+00	.380365E+00	.197735E+00	.101236E+00
-.138049E-01	-.637155E-02	-.237159E-01	-.552841E-01	-.701785E-01	-.384070E-01	-.245020E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.714137E-01	.344689E-01	.252232E-01	.229454E-01	.226219E-01	.226527E-01	.228292E-01
-.251585E-01	-.306956E-01	-.143264E-01	-.119309E-01	-.111093E-01	-.110963E-01	-.111366E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.226347E-01	.226305E-01	.226402E-01	.226416E-01	.226334E-01	.234658E-01	.239294E-01
-.111049E-01	-.111119E-01	-.111066E-01	-.111141E-01	-.111210E-01	-.111103E-01	-.116534E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.241347E-01	.924283E-02	.245225E-01	.305004E-01	.389621E-01	.515000E-01	.712198E-01
-.117866E-01	-.118669E-01	0.	.506958E-01	.632770E-01	.811820E-01	.107883E+00
0.	0.	0.	0.	.509837E-01	.637289E-01	.819313E+01
0.	0.	0.	0.	0.	.521594E-01	.656488E-01
0.	0.	0.	0.	0.	0.	.546592E-01
0.	0.	0.	0.	0.	0.	0.

GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.104857E+00	.169349E+00	.317813E+00	.789603E+00	.136721E+01	.159633E+01	.688443E+00
.150196E+00	.222940E+00	.362837E+00	.670874E+00	.745273E+00	.747093E-01	-.178345E+00
.109215E+00	.152773E+00	.228363E+00	.370615E+00	.270653E+00	-.290690E+00	0.
.852903E-01	.115644E+00	.166576E+00	.259195E+00	.166222E+00	-.225804E+00	0.
.698953E-01	.931258E-01	.131721E+00	.201180E+00	.119941E+00	-.173152E+00	0.
.592559E-01	.781246E-01	.109395E+00	.165265E+00	.937296E-01	-.139596E+00	0.
0.	.674383E-01	.938347E-01	.140654E+00	.768587E-01	-.116738E+00	0.
0.	0.	.823326E-01	.122642E+00	.650980E-01	-.100744E+00	0.
0.	0.	0.	.108840E+00	.564369E-01	-.878091E-01	0.
0.	0.	0.	0.	.497962E-01	-.780990E-01	0.
0.	0.	0.	0.	0.	-.703178E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 37, Atomic No. = 18, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.224817E+00	.253597E+00	.242075E+00	.260684E+00	.330255E+00	.394390E+00	.459831E+00
0.	.270319E-01	.124303E-01	.219249E-01	.154372E-01	.188351E-01	.219314E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.493687E+00	.457056E+00	.368077E+00	.262207E+00	.149413E+00	.701954E-01	.281068E-01
.160655E-01	.214955E-02	-.810092E-02	-.726446E-02	-.433625E-02	-.157474E-02	.454723E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.121938E-01	.215316E-02	.179760E-03	.202246E-03	.205482E-03	.196877E-03	.204190E-03
-.454417E-03	-.701462E-03	-.253593E-03	-.230622E-03	-.226459E-03	-.226414E-03	-.227383E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.202941E-03	.203918E-03	.201449E-03	.201012E-03	.203245E-03	.205661E-03	.207848E-03
-.226578E-03	-.226726E-03	-.226611E-03	-.226845E-03	-.226943E-03	-.226690E-03	-.242359E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.187336E-03	-.207580E-04	.244313E-01	.303540E-01	.387305E-01	.510934E-01	.704368E-01
-.241975E-03	-.244998E-03	0.	.500810E-01	.622739E-01	.794993E-01	.104833E+00
0.	0.	0.	0.	.495188E-01	.613628E-01	.778439E-01
0.	0.	0.	0.	0.	.495470E-01	.612882E-01
0.	0.	0.	0.	0.	0.	.503142E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.103147E+00	.164790E+00	.301126E+00	.673714E+00	.988137E+00	.854315E+00	.104300E+01
.144050E+00	.208530E+00	.319958E+00	.673935E+00	.222886E+00	-.174489E+00	.445497E+01
.101487E+00	.136164E+00	.184761E+00	.204907E+00	-.697982E-01	-.185921E+00	0.
.773900E-01	.995461E-01	.127087E+00	.121384E+00	-.856304E-01	-.905919E-01	0.
.622493E-01	.788782E-01	.962854E-01	.833754E-01	-.806197E-01	-.562787E-01	0.
.519890E-01	.641627E-01	.773966E-01	.623113E-01	-.730783E-01	-.397648E-01	0.
0.	.544714E-01	.647000E-01	.491644E-01	-.654760E-01	-.303317E-01	0.
0.	0.	.555979E-01	.402838E-01	-.598882E-01	-.243279E-01	0.
0.	0.	0.	.339350E-01	-.545478E-01	-.202184E-01	0.
0.	0.	0.	0.	-.500626E-01	-.172349E-01	0.
0.	0.	0.	0.	0.	-.149909E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 37, Atomic No. = 18, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.784708E-01	.836517E-01	.744644E-01	.708644E-01	.894185E-01	.105992E+00	.111017E+00
-.338815E-01	-.250953E-01	-.207838E-01	-.163046E-01	-.213822E-01	-.247546E-01	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.131859E+00	.133944E+00	.117992E+00	.840241E-01	.479956E-01	.223917E-01	.878580E-02
-.183966E-01	-.228746E-01	-.116021E-01	-.762670E-02	-.463178E-02	-.159981E-02	-.442210E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.351817E-02	.408826E-03	-.219252E-03	-.162644E-03	-.154705E-03	-.168062E-03	-.156764E-03
-.156553E-03	-.809811E-04	-.903687E-05	.506960E-05	-.669449E-05	-.755678E-05	-.377365E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
-.158725E-03	-.157194E-03	-.161044E-03	-.181714E-03	-.158249E-03	-.180425E-03	-.183433E-03
-.695343E-05	-.638951E-05	-.682916E-05	-.573163E-05	-.554166E-05	-.652576E-05	-.130420E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
-.212303E-03	-.134144E-03	.242951E-01	.301474E-01	.3A3852E-01	.504882E-01	.692747E-01
0.	.37783E-05	0.	.491178E-01	.607869E-01	.770138E-01	.100352E+00
0.	0.	0.	0.	.673626E-01	.578998E-01	.719129E-01
0.	0.	0.	0.	0.	.457536E-01	.550244E-01
0.	0.	0.	0.	0.	0.	.441240E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. 0. 0. 0. 0. 0. 0. 0.
.100608E+00	.158129E+00	.277371E+00	.525514E+00	.581693E+00	.262424E+00	.925239E-01
.135111E+00	.187959E+00	.261395E+00	.247187E+00	-.150734E+00	-.215789E+00	-.774955E-02
.904337E-01	.113031E+00	.127621E+00	.313829E-01	-.207080E+00	.154492E-01	0.
.662379E-01	.775477E-01	.768587E-01	-.141856E-01	-.152290E+00	.562548E-01	0.
.515728E-01	.578114E-01	.521759E-01	-.276894E-01	-.118257E+00	.513628E-01	0.
.419283E-01	.455686E-01	.382892E-01	-.318274E-01	-.961696E-01	.442028E-01	0.
0.	.373597E-01	.294483E-01	-.325857E-01	-.808555E-01	.382072E-01	0.
0.	0.	.235943E-01	-.319966E-01	-.696671E-01	.334574E-01	0.
0.	0.	0.	-.308634E-01	-.611564E-01	.296826E-01	0.
0.	0.	0.	0.	-.544747E-01	.266378E-01	0.
0.	0.	0.	0.	0.	.241410E-01	0.
0.	0.	0.	0.	0.	0.	0.

POTASSIUM, KALIUM (K)

Neutron ID = 44, Atomic No. = 19, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.393719E+00	.470022E+00	.504093E+00	.528212E+00	.523194E+00	.492468E+00	.397150E+00
0.	0.	0.	0.	0.	0.	0.
.176945E+01	.183915E+01	.192905E+01	.212850E+01	.247530E+01	.283344E+01	.330641E+01
.711829E+00	.746548E+00	.891606E+00	.102925E+01	.122234E+01	.146686E+01	.217245E+01
0.	.207470E+00	.216308E+00	.127141E+00	.116021E+00	.141183E+00	.204216E+00
0.	0.	.114783E-02	.281101E-02	.834424E-02	.176971E-01	.913323E-01
0.	0.	0.	.401114E-02	.101700E-01	.193858E-01	.827122E-01
0.	0.	0.	0.	.134038E-01	.220127E-01	.807047E-01
0.	0.	0.	0.	0.	.270569E-01	.844968E-01
0.	0.	0.	0.	0.	0.	.959749E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.210566E+00	.119747E+00	.601431E-01	.254550E-01	.422847E-02	.875000E-03	.134100E-02
0.	0.	0.	0.	0.	0.	0.
.345787E+01	.317612E+01	.299029E+01	.277550E+01	.242153E+01	.211421E+01	.220201E+01
.263372E+01	.257005E+01	.248452E+01	.232810E+01	.224520E+01	.197417E+01	.205320E+01
.246617E+00	.431913E+00	.438758E+00	.413413E+00	.404488E+00	.169519E+00	.139165E+00
.182120E+00	.788866E-01	.610854E-02	.34640E-02	.478116E-02	.117020E-02	0.
.741850E-01	.139258E+00	.949866E-01	.677287E-02	.141704E-01	.131774E-01	.864212E-02
.598582E-01	.819252E-01	.921129E-01	.985946E-01	.267717E-01	.101903E-01	.774145E-02
.542107E-01	.622617E-01	.796847E-01	.629564E-01	.133862E+00	.583577E-01	.567551E-02
.538188E-01	.542704E-01	.577742E-01	.698225E-01	.951828E-01	.532485E-01	.503850E-01
.579552E-01	.524431E-01	.488788E-01	.487914E-01	.985409E-01	.558002E-01	.197852E-01
0.	.577043E-01	.462416E-01	.403188E-01	.662709E-01	.523025E-01	.248416E-01
0.	0.	.527217E-01	.375223E-01	.534490E-01	.339341E-01	.241332E-01
0.	0.	0.	.42798E-01	.488988E-01	.267531E-01	.153166E-01
0.	0.	0.	0.	.554384E-01	.273569E-01	.119063E-01
0.	0.	0.	0.	0.	.277010E-01	.122650E-01
0.	0.	0.	0.	0.	0.	.122651E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.218100E-02	.470300E-02	.127700E-01	.337700E-01	.214570E+00	.144129E-01	.126515E-01
0.	0.	0.	0.	0.	0.	0.
.185775E+01	.240899E+01	.290230E+01	.309131E+01	.475078E+01	.117143E+01	.131873E+01
.172291E+01	.214744E+01	.270641E+01	.183077E+01	.207688E+01	.109578E+01	.123616E+01
.147469E+00	.132659E+00	.256847E+00	.183120E+00	.122657E+01	.250733E+01	.612371E-01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.436029E-02	.276814E-02	.178895E-02	0.	0.	0.	0.
.376316E-02	.232585E-02	.442899E-03	.700304E-03	0.	0.	0.
.644573E-02	.624877E-02	.364851E-03	.834232E-04	.986770E-04	0.	0.
.243897E-01	.166917E-01	.117012E-02	.518636E-04	.878025E-05	.135002E-04	0.
.102574E-01	.717314E-02	.187148E-02	.172916E-03	.716054E-05	.119344E-05	.184656E-05
.109641E-01	0.	0.	0.	0.	0.	0.
.101130E-01	.570778E-02	.121750E-02	.291957E-03	.210978E-04	.972316E-05	0.
.633229E-02	.562074E-02	.831137E-03	.163120E-03	.345811E-04	.156181E-05	0.
.488029E-02	.345578E-02	.814978E-03	.107887E-03	.149801E-04	0.	0.
.503262E-02	.267014E-02	.501814E-03	.112518E-03	.128495E-04	0.	0.
.501458E-02	.275864E-02	.382651E-03	.694985E-04	.153688E-04	0.	0.
0.	.273945E-02	.395942E-03	.526015E-04	.942901E-05	0.	0.
0.	0.	.453442E-03	.620431E-04	.717345E-05	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.208762E-01	.344295E-01	.567683E-01	.935630E-01	.154220E+00	.254039E+00	.418987E+00
0.	0.	0.	0.	0.	0.	0.
.148029E+01	.167689E+01	.186298E+01	.201852E+01	.218113E+01	.229934E+01	.244197E+01
.138154E+01	.155457E+01	.171131E+01	.182481E+01	.192302E+01	.194247E+01	.192035E+01
.699185E-01	.778738E-01	.878905E-01	.949017E-01	.100147E+00	.103890E+00	.102831E+00
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.249999E-06	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 44, Atomic No. = 19, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.572560E+00	.627243E+00	.645730E+00	.733663E+00	.897517E+00	.108975E+01	.142566E+01
0.	.145644E-03	-.411867E-01	-.259471E-01	-.169510E-01	-.763577E-02	-.471153E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.145978E+01	.123211E+01	.106271E+01	.933873E+00	.728777E+00	.548453E+00	.423610E+00
-.323545E-01	-.985727E-01	-.103959E+00	-.104784E+00	-.873490E-01	-.356820E-01	-.253023E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.276421E+00	.232996E+00	.183016E+00	.187761E+00	.429987E+00	.395387E-01	.449180E-01
-.254800E-01	-.449940E-01	-.581137E-01	-.548167E-01	-.190207E-00	-.352013E+00	-.196414E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.500973E-01	.564690E-01	.615567E-01	.652803E-01	.682837E-01	.682827E-01	.678130E-01
-.224571E-01	-.249995E-01	-.282232E-01	-.304948E-01	-.321844E-01	-.334263E-01	-.331092E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.691277E-01	.353110E-01	.258848E-01	.321949E-01	.411267E-01	.543611E-01	.751764E-01
-.330234E-01	-.330167E-01	0.	.535121E-01	.667924E-01	.856921E-01	.113877E+00
0.	0.	0.	0.	.538162E-01	.672649E-01	.864830E-01
0.	0.	0.	0.	0.	.550571E-01	.692960E-01
0.	0.	0.	0.	0.	0.	.576958E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.110883E+00	.178757E+00	.335469E+00	.833470E+00	.144317E+01	.166501E+01	.726690E+00
.158540E+00	.235325E+00	.382995E+00	.708145E+00	.786677E+00	.788598E-01	-.188253E+00
.115282E+00	.161260E+00	.241050E+00	.391104E+00	.285684E+00	-.315284E+00	0.
.902886E-01	.122069E+00	.175830E+00	.273544E+00	.175456E+00	-.238349E+00	0.
.737784E-01	.982994E-01	.139039E+00	.212357E+00	.126605E+00	-.182771E+00	0.
.625479E-01	.824659E-01	.115472E+00	.174440E+00	.984368E-01	-.147351E+00	0.
0.	.711844E-01	.990478E-01	.148448E+00	.811280E-01	-.123223E+00	0.
0.	0.	.889067E-01	.129458E+00	.687146E-01	-.105813E+00	0.
0.	0.	0.	.114806E+00	.595723E-01	-.926833E-01	0.
0.	0.	0.	0.	.525620E-01	-.824379E-01	0.
0.	0.	0.	0.	0.	-.742243E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 44, Atomic No. = 19, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.452090E+00	.486884E+00	.501642E+00	.596686E+00	.725094E+00	.851678E+00	.104396E+01
0.	-.342330E-02	-.167448E-01	.550714E-02	.853578E-02	.159817E-01	.217118E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.101132E+01	.818928E+00	.688262E+00	.535632E+00	.384794E+00	.216964E+00	.147793E+00
.318778E-01	.542448E-01	.531230E-01	.427416E-01	.342524E-01	.431160E-02	-.273534E-02
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .712870E-01 -.268102E-02 0.	0. 0. 0. .483820E-01 .194720E-02 0.	0. 0. 0. .217412E-01 -.133004E-01 0.	0. 0. 0. .665042E-01 -.588510E-02 0.	0. 0. 0. .237522E+00 -.886450E-01 0.	0. 0. 0. .610666E-03 -.236918E+00 0.	0. 0. 0. .677180E-03 -.456674E-03 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .762256E-03 -.503344E-03 0.	0. 0. 0. .854978E-03 -.568912E-03 0.	0. 0. 0. .915818E-03 -.636370E-03 0.	0. 0. 0. .966536E-03 -.875410E-03 0.	0. 0. 0. .983916E-03 -.710330E-03 0.	0. 0. 0. .965352E-03 -.714140E-03 0.	0. 0. 0. .973918E-03 -.693128E-03 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .101204E-02 -.704656E-03 0. 0. 0. 0.	0. 0. 0. .273290E-03 -.738754E-03 0. 0. 0. 0.	0. 0. 0. .257806E-01 0. 0. 0. 0.	0. 0. 0. .320496E-01 .328422E-01 0. 0. 0. 0.	0. 0. 0. .408822E-01 .657336E-01 .522698E-01 0. 0. 0.	0. 0. 0. .539320E-01 .839159E-01 .647719E-01 .522996E-01 0. 0. 0.	0. 0. 0. .743500E-01 .110657E+00 .821685E-01 .646931E-01 .531095E-01 0. 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .108872E+00 .152053E+00 .107125E+00 .816984E-01 .657076E-01 .548773E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .173945E+00 .220115E+00 .143729E+00 .105076E+00 .824159E-01 .677273E-01 .574976E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .317855E+00 .337734E+00 .195026E+00 .134147E+00 .101635E+00 .816964E-01 .682944E-01 .586867E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .711143E+00 .500269E+00 .216240E+00 .128124E+00 .880074E-01 .657730E-01 .518963E-01 .425218E-01 .358203E-01 0. 0. 0. 0. 0.	0. 0. 0. .104303E+01 .235208E+00 -.736759E-01 -.903876E-01 -.850995E-01 -.771382E-01 -.696413E-01 -.631308E-01 -.575782E-01 -.528439E-01 0. 0. 0.	0. 0. 0. .901777E+00 -.184183E+00 -.196252E+00 -.956248E-01 -.594053E-01 -.419739E-01 -.320168E-01 -.256795E-01 -.213353E-01 -.181924E-01 -.158238E-01 0. 0. 0.	0. 0. 0. .110094E+01 .470247E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 44, Atomic No. = 19, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .375524E+00 0.	0. 0. 0. .389039E+00 -.171807E-02 0.	0. 0. 0. .420033E+00 .466293E-02 0.	0. 0. 0. .483047E+00 .117845E-02 0.	0. 0. 0. .549367E+00 .424973E-02 0.	0. 0. 0. .599170E+00 .884900E-02 0.	0. 0. 0. .614671E+00 .693760E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .498896E+00 -.100174E-01 0.	0. 0. 0. .340060E+00 -.266414E-01 0.	0. 0. 0. .221047E+00 -.343921E-01 0.	0. 0. 0. .142056E+00 -.334301E-01 0.	0. 0. 0. .520437E-01 -.365750E-01 0.	0. 0. 0. .186571E-01 -.112765E-01 0.	0. 0. 0. .126359E-01 -.634271E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .147347E-02 -.688743E-02 0.	0. 0. 0. .414297E-02 .365223E-03 0.	0. 0. 0. .630543E-04 -.455930E-02 0.	0. 0. 0. .289813E-01 .128177E-03 0.	0. 0. 0. .116232E+00 -.495539E-01 0.	0. 0. 0. .573781E-05 -.116232E+00 0.	0. 0. 0. .611274E-05 -.573781E-05 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .698500E-05 -.611274E-05 0.	0. 0. 0. .777069E-05 -.694500E-05 0.	0. 0. 0. .811407E-05 -.777069E-05 0.	0. 0. 0. .850637E-05 -.811407E-05 0.	0. 0. 0. .830806E-05 -.850637E-05 0.	0. 0. 0. .792259E-05 -.830806E-05 0.	0. 0. 0. .818884E-05 -.792259E-05 0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.876573E-05	0.	.256448E-01	.318227E-01	.405177E-01	.532931E-01	.731233E-01
-.818884E-05	-.876573E-05	0.	.518446E-01	.641639E-01	.812923E-01	.105927E+00
0.	0.	0.	0.	.499939E-01	.611165E-01	.759080E-01
0.	0.	0.	0.	0.	.482954E-01	.580813E-01
0.	0.	0.	0.	0.	0.	.465753E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.106198E+00	.166913E+00	.292780E+00	.554710E+00	.614010E+00	.277003E+00	.871086E-01
.142617E+00	.198401E+00	.275917E+00	.260920E+00	-.159189E+00	-.227777E+00	-.818008E-02
.954572E-01	.119310E+00	.134711E+00	.331211E-01	-.218563E+00	.163075E-01	0.
.699178E-01	.818559E-01	.811286E-01	-.149737E-01	-.160751E+00	.593822E-01	0.
.544379E-01	.610232E-01	.550746E-01	-.292281E-01	-.124827E+00	.542143E-01	0.
.442577E-01	.481002E-01	.403319E-01	-.335981E-01	-.101512E+00	.466585E-01	0.
0.	.394352E-01	.311054E-01	-.343980E-01	-.853475E-01	.483298E-01	0.
0.	0.	.249051E-01	-.337742E-01	-.735375E-01	.353162E-01	0.
0.	0.	0.	-.325781E-01	-.644539E-01	.313317E-01	0.
0.	0.	0.	0.	-.575011E-01	.281177E-01	0.
0.	0.	0.	0.	0.	.254822E-01	0.
0.	0.	0.	0.	0.	0.	0.

CALCIUM (Ca)

Neutron ID = 1, Atomic No. = 20, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.380973E+00	.525140E+00	.641474E+00	.841178E+00	.978420E+00	.964210E+00	.666763E+00
0.	0.	0.	0.	0.	0.	0.
.174000E+01	.181277E+01	.187619E+01	.201614E+01	.226323E+01	.263511E+01	.324120E+01
.372422E+00	.410566E+00	.509028E+00	.627128E+00	.826136E+00	.115323E+01	.203486E+01
0.	.151419E+00	.142398E+00	.834258E-01	.787642E-01	.123464E+00	.165700E+00
0.	0.	0.	.168147E-02	0.	.454239E-02	.119531E-02
0.	0.	0.	.258864E-02	.726301E-02	.829899E-02	.185988E-01
0.	0.	0.	0.	.111816E-01	.143034E-01	.349738E-01
0.	0.	0.	0.	0.	.215911E-01	.673291E-01
0.	0.	0.	0.	0.	0.	.131745E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.310953E+00	.109823E+00	.586385E-01	.339586E-01	.112571E-01	.179138E-02	.446311E-03
0.	0.	0.	0.	0.	0.	0.
.330800E+01	.328253E+01	.310987E+01	.243971E+01	.313234E+01	.291792E+01	.277289E+01
.250669E+01	.272439E+01	.262742E+01	.211574E+01	.287924E+01	.269444E+01	.266290E+01
.257112E+00	.458121E+00	.432285E+00	.409320E+00	.280560E+00	.241345E+00	.221488E+00
0.	.309761E-02	.196216E-01	0.	0.	0.	0.
.449649E-02	0.	.889123E-02	0.	0.	0.	0.
.249839E-01	.111795E-01	0.	.671701E-03	0.	0.	0.
.658754E-01	.340145E-01	.205522E-01	.235342E-02	.753229E-02	0.	0.
.818307E-01	.835111E-01	.408866E-01	.300118E-01	.263963E-01	.153073E+00	0.
.102883E+00	.964999E-01	.902406E-01	.440081E-01	.751990E-01	.721782E-01	.511690E-01
0.	.111759E+00	.992245E-01	.856369E-01	.822641E-01	.738283E-01	.939632E-01
0.	0.	.107350E+00	.910450E-01	.131772E+00	.753281E-01	.553202E-01
0.	0.	0.	.932944E-01	.135727E+00	.764572E-01	.643123E-01
0.	0.	0.	0.	.130944E+00	.764199E-01	.376802E-01
0.	0.	0.	0.	0.	.692909E-01	.368294E-01
0.	0.	0.	0.	0.	0.	.318939E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.265790E+00	.929227E-01	.552824E-01	.732570E-01	.786937E-01	.821232E-01	.820832E-01
-.443858E-01	-.137792E-01	-.175478E-01	-.280144E-01	-.363933E-01	-.379038E-01	-.390479E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.821684E-01	.821235E-01	.822152E-01	.822452E-01	.821013E-01	.824498E-01	.818793E-01
-.388408E-01	-.389203E-01	-.388796E-01	-.389614E-01	-.389898E-01	-.388548E-01	-.391669E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.820100E-01	.431183E-01	.272472E-01	.338843E-01	.432912E-01	.572222E-01	.791331E-01
-.386641E-01	-.387781E-01	0.	.563285E-01	.703077E-01	.902022E-01	.119870E+00
0.	0.	0.	0.	.568486E-01	.780899E-01	.910347E-01
0.	0.	0.	0.	0.	.579548E-01	.729431E-01
0.	0.	0.	0.	0.	0.	.607324E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.116504E+00	.188185E+00	.353125E+00	.877377E+00	.151912E+01	.177370E+01	.764937E+00
.168884E+00	.247711E+00	.403153E+00	.745416E+00	.829081E+00	.830103E-01	-.198181E+00
.121750E+00	.169748E+00	.257737E+00	.411778E+00	.700726E+00	-.331878E+00	0.
.947670E-01	.128494E+00	.185084E+00	.287944E+00	.184641E+00	-.250893E+00	0.
.774615E-01	.103473E+00	.148357E+00	.223533E+00	.132268E+00	-.192391E+00	0.
.658399E-01	.868062E-01	.121550E+00	.183628E+00	.104144E+00	-.155107E+00	0.
0.	.749314E-01	.104261E+00	.156281E+00	.853985E-01	-.129708E+00	0.
0.	0.	.914807E-01	.136264E+00	.723312E-01	-.111382E+00	0.
0.	0.	0.	.120933E+00	.827078E-01	-.975614E-01	0.
0.	0.	0.	0.	.553291E-01	-.867767E-01	0.
0.	0.	0.	0.	0.	-.781309E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 1, Atomic No. = 20, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.274748E+00	.310048E+00	.330022E+00	.420153E+00	.575116E+00	.777763E+00	.118065E+01
0.	.762718E-01	-.130679E-01	-.399854E-02	.115351E-02	.638160E-02	-.161193E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.130119E+01	.135833E+01	.127267E+01	.924202E+00	.493764E+00	.430871E+00	.477510E+00
-.405353E-01	-.916371E-01	-.970125E-01	-.842214E-01	-.620729E-01	-.927077E-01	-.588610E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.265790E+00	.929227E-01	.552824E-01	.732570E-01	.786937E-01	.821232E-01	.820832E-01
-.443858E-01	-.137792E-01	-.175478E-01	-.280144E-01	-.363933E-01	-.379039E-01	-.390479E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.421684E-01	.421235E-01	.822152E-01	.822452E-01	.421013E-01	.824498E-01	.818793E-01
-.443858E-01	-.389203E-01	-.388796E-01	-.389614E-01	-.389898E-01	-.388548E-01	-.391669E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.820100E-01	.431183E-01	.272472E-01	.338843E-01	.432912E-01	.572227E-01	.791331E-01
-.386641E-01	-.387781E-01	0.	.563285E-01	.704077E-01	.902022E-01	.119870E+00
0.	0.	0.	0.	.566486E-01	.708099E-01	.910347E-01
0.	0.	0.	0.	0.	.579548E-01	.729431E-01
0.	0.	0.	0.	0.	0.	.607324E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.116508E+00	.188165E+00	.353125E+00	.877337E+00	.151912E+01	.177370E+01	.764937E+00
.166884E+00	.247711E+00	.403153E+00	.745416E+00	.478081E+00	.830103E-01	-.198161E+00
.121750E+00	.169748E+00	.251737E+00	.411778E+00	.700726E+00	-.331878E+00	0.
.947670E-01	.124494E+00	.185084E+00	.287994E+00	.184691E+00	-.250893E+00	0.
.776615E-01	.103473E+00	.144357E+00	.227533E+00	.173768E+00	-.192391E+00	0.
.658399E-01	.868862E-01	.121550E+00	.183628E+00	.104144E+00	-.155107E+00	0.
0.	.749314E-01	.104261E+00	.156283E+00	.853985E-01	-.129788E+00	0.
0.	0.	.914807E-01	.136264E+00	.723312E-01	-.111382E+00	0.
0.	0.	0.	.129933E+00	.427076E-01	-.975614E-01	0.
0.	0.	0.	0.	.553291E-01	-.867767E-01	0.
0.	0.	0.	0.	0.	-.781309E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 1, Atomic No. = 20, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .161526E+00 0. 0.	0. 0. 0. .179815E+00 .637541E-02 0.	0. 0. 0. .189667E+00 -.108735E-01 0.	0. 0. 0. .270511E+00 .543716E-02 0.	0. 0. 0. .392140E+00 .115935E-01 0.	0. 0. 0. .527012E+00 .206354E-01 0.	0. 0. 0. .821183E+00 .278450E-01 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .888873E+00 .522217E-01 0.	0. 0. 0. .902302E+00 .943156E-01 0.	0. 0. 0. .835893E+00 .924848E-01 0.	0. 0. 0. .591689E+00 .811012E-01 0.	0. 0. 0. .501377E+00 .425445E-01 0.	0. 0. 0. .300714E+00 .297110E-01 0.	0. 0. 0. .159332E+00 -.278903E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .102977E+00 .164268E-01 0.	0. 0. 0. .218079E-01 .219061E-03 0.	0. 0. 0. .726876E-03 -.126269E-03 0.	0. 0. 0. .269611E-03 -.308660E-03 0.	0. 0. 0. .976164E-03 .130803E-03 0.	0. 0. 0. .934670E-03 -.552996E-03 0.	0. 0. 0. .963058E-03 -.461302E-03 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .958473E-03 -.513331E-03 0.	0. 0. 0. .962812E-03 -.503078E-03 0.	0. 0. 0. .952132E-03 -.511688E-03 0.	0. 0. 0. .951121E-03 -.491073E-03 0.	0. 0. 0. .957659E-03 -.488470E-03 0.	0. 0. 0. .920190E-03 -.503765E-03 0.	0. 0. 0. .100022E-02 -.430116E-03 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .976566E-03 -.577766E-03 0.	0. 0. 0. .325568E-03 -.537397E-03 0.	0. 0. 0. .271459E-01 0. 0.	0. 0. 0. .337322E-01 .556233E-01 0.	0. 0. 0. .430339E-01 .691932E-01 .550209E-01 0.	0. 0. 0. .567765E-01 .883325E-01 .681809E-01 .550522E-01 0.	0. 0. 0. .782631E-01 .116481E+00 .864912E-01 .680980E-01 .559047E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .114602E+00 .160059E+00 .112764E+00 .859878E-01 .691459E-01 .577656E-01 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .183100E+00 .231700E+00 .151294E+00 .116070E+00 .867536E-01 .732919E-01 .605238E-01 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .334584E+00 .355090E+00 .205290E+00 .141208E+00 .186984E+00 .859924E-01 .718889E-01 .617755E-01 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .748571E+00 .526595E+00 .227674E+00 .134871E+00 .426394E-01 .642348E-01 .546277E-01 .447598E-01 .377055E-01 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .109793E+01 .247651E+00 .775536E-01 .951449E-01 .895774E-01 .811941E-01 .733066E-01 .664535E-01 .806086E-01 .558251E-01 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .949239E+00 .193877E+00 .206581E+00 .100658E+00 .625319E-01 .441831E-01 .337019E-01 .270319E-01 .224527E-01 .191499E-01 -.166548E-01 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .115889E+01 .494997E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 1, Atomic No. = 20, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .711610E-01 0. 0.	0. 0. 0. .761590E-01 .721915E-02 0.	0. 0. 0. .894330E-01 .319120E-02 0.	0. 0. 0. .132846E+00 .244975E-02 0.	0. 0. 0. .192262E+00 .611764E-02 0.	0. 0. 0. .249877E+00 .875586E-02 0.	0. 0. 0. .337294E+00 .756738E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .254600E+00 -.171371E-01 0.	0. 0. 0. .177276E+00 -.704930E-01 0.	0. 0. 0. .132603E+00 -.741130E-01 0.	0. 0. 0. .745445E-01 -.687444E-01 0.	0. 0. 0. .334213E-01 -.384748E-01 0.	0. 0. 0. .305392E-01 -.131633E-01 0.	0. 0. 0. .176288E-01 -.785369E-02 0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.225435E-02	.148594E-03	.168720E-04	-.629960E-04	-.356983E-03	-.290299E-03	-.350053E-03
-.988673E-02	-.910219E-03	.119970E-03	.197094E-03	.194096E-03	.473017E-03	.439525E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.337043E-03	-.347202E-03	-.323485E-03	-.319986E-03	-.339643E-03	-.254422E-03	-.420208E-03
.474186E-03	.466845E-03	.472731E-03	.458950E-03	.457043E-03	.467943E-03	.418900E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.376589E-03	0.	.269945E-01	.334976E-01	.426502E-01	.560980E-01	.769719E-01
.517074E-03	.490164E-03	0.	.545793E-01	.675410E-01	.855709E-01	.111507E+00
0.	0.	0.	0.	.526291E-01	.643332E-01	.799032E-01
0.	0.	0.	0.	0.	.508373E-01	.611382E-01
0.	0.	0.	0.	0.	0.	.490767E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.111787E+00	.175698E+00	.308190E+00	.583905E+00	.646326E+00	.291587E+00	.916932E=01
.150123E+00	.208843E+00	.290439E+00	.274652E+00	-.167483E+00	-.239765E+00	-.861061E-02
.100481E+00	.125590E+00	.141801E+00	.348674E-01	-.230067E+00	.171657E-01	0.
.735977E-01	.861641E-01	.853986E-01	-.157610E-01	-.149212E+00	.825076E-01	0.
.573031E-01	.642349E-01	.579733E-01	-.307665E-01	-.131397E+00	.570697E-01	0.
.465870E-01	.506318E-01	.424546E-01	-.357643E-01	-.106855E+00	.491142E-01	0.
0.	.415107E-01	.327425E-01	-.382084E-01	-.899395E-01	.424525E-01	0.
0.	0.	.267159E-01	-.355518E-01	-.774079E-01	.371749E-01	0.
0.	0.	0.	-.347927E-01	-.679515E-01	.329807E-01	0.
0.	0.	0.	0.	-.605275E-01	.295976E-01	0.
0.	0.	0.	0.	0.	.268234E-01	0.
0.	0.	0.	0.	0.	0.	0.





GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
.810975E+00	.227000E+01	.139824E+01	.128728E+01	.116022E+01	.101454E+01	.848240E+00
0.	0.	0.	0.	0.	0.	0.
.123084E+02	.100867E+02	.277459E+01	.277875E+01	.279087E+01	.281746E+01	.287090E+01
.110932E+02	.781675E+01	.354873E-01	.441585E-01	.564464E-01	.746838E-01	.103442E+00
.403364E+00	.404225E+00	.540000E-01	.736879E-01	.921296E-01	.118489E+00	.158063E+00
0.	0.	.201000E-01	.210975E-01	.747132E-01	.937868E-01	.121356E+00
0.	0.	.122000E-01	.787000E-02	.123000E+01	.777448E-01	.980574E-01
0.	0.	.741000E-02	.478000E-02	.459000E+00	.201700F+00	.821874E-01
0.	0.	.449000E-02	.290000E-02	.274000E+00	.750000E-01	.164600E+00
0.	0.	.270000E-02	.175000E-02	.144000E+00	.456000E-01	.815000E-01
0.	0.	.163000E-02	.105000E-02	.102000E+00	.276000E-01	.373000E-01
0.	0.	.496000E-03	.639000E-03	.615000E-01	.167000E-01	.226000E-01
0.	0.	.591000E-03	.389000E-03	.373000E-01	.100000E-01	.137000E-01
0.	0.	.844000E-03	.232000E-03	.227000E-01	.609000E-02	.823000E-02
0.	0.	.126000E-02	.330000E-03	.123000E-01	.371000E-02	.499000E-02
0.	0.	.423000E-02	.492000E-03	.140000E+00	.203000E-02	.304000E-02
0.	0.	.360000E-03	.139000E-02	.212000E+00	.353000E-01	.167000E-02
0.	0.	.447000E-04	.465000E-04	.619000E-01	.536000E-01	.167000E-01
0.	0.	.244000E-03	.119000E-04	.264000E-02	.138000E-01	.253000E-01
0.	0.	.228000E-03	.488000E-04	.516000E-02	.665000E-03	.160000E-01
0.	0.	.200000E-03	.601000E-04	.241000E-02	.123000E-02	.769000E-03
0.	0.	.217000E-03	.576000E-03	.202000E-02	.702000E-03	.120000E-02
0.	0.	.126000E-03	.114000E-02	.101000E-02	.641000E-03	.641000E-03
0.	0.	.795000E-04	.665000E-03	.349000E-03	.626000E-03	.867000E-03
0.	0.	.588000E-04	.419000E-03	.203000E-03	.743000E-03	.808000E-03
0.	0.	.448000E-04	.310000E-03	.128000E-03	.437000E-03	.671000E-03
0.	0.	.351000E-04	.237000E-03	.946000E-04	.272000E-03	.391000E-03
0.	0.	.251000E-04	.185000E-03	.722000E-04	.202000E-03	.246000E-03
0.	0.	.167000E-04	.133000E-03	.565000E-04	.154000E-03	.182000E-03
0.	0.	.579000E-03	.881000E-04	.404000E-04	.120000E-03	.139000E-03
0.	0.	.742000E-02	.422000E-02	.221000E-03	.861000E-04	.109000E-02
0.	0.	.543000E-02	.226000E-01	.172000E-01	.260000E-02	.174000E-01
0.	0.	.322000E-02	.166000E-01	.544000E-01	.338000E-01	.455000E-01
0.	0.	.322000E-02	.105000E-01	.473000E-01	.106000E+00	.107000E+00
0.	0.	0.	.105000E-01	.314000E-01	.805000E-01	.203000E+00
0.	0.	0.	0.	.314000E-01	.518000E-01	.143000E+00
0.	0.	0.	0.	0.	.518000E-01	.914000E-01
0.	0.	0.	0.	0.	0.	.914000E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.660534E+00	.453530E+00	.237408E+00	.604132E-01	.768370E-01	.218968E+01	.975755E+03
0.	0.	0.	0.	0.	0.	0.
.297508E+01	.317902E+01	.359672E+01	.458053E+01	.443699E+01	.116777E+02	.990251E+03
.152711E+00	.247959E+00	.471495E+00	.123245E+01	.230678E+01	.877972E+01	.144962E+02
.221476E+00	.332741E+00	.558A24E+00	.113444E+01	.171387E+01	.405341E+01	.707756E+00
.143495E+00	.233203E+00	.363918E+00	.881258E+00	.127795E+01	.165955E+01	0.
.129113E+00	.179371E+00	.271968E+00	.449447E+00	.148078E+01	.935938E+00	0.
.106720E+00	.146888E+00	.218738E+00	.399602E+00	.177382E+01	.656978E+00	0.
.910433E-01	.123655E+00	.183951E+00	.335247E+00	.207205E+01	.506736F+00	0.
.274000E+00	.107498E+00	.159714E+00	.289888E+00	.235051F+01	.412580F+00	0.
.103000E+00	.421000E+00	.148A59E+00	.255807E+00	.280180E+01	.347944F+00	0.
.673000E-01	.157800E+00	.299000E+00	.229145E+00	.282454E+01	.300888F+00	0.
.377000E-01	.952000E-01	.111000E-01	.478000E+00	.307155E+01	.264998F+00	0.
.228000E-01	.577000E-01	.676000E-01	.177000E+00	.102800E+00	.236773F+00	0.
.137000E-01	.349000E-01	.409000E-01	.189000E+00	.384000E-01	.478000E+00	0.
.837000E-02	.218000E-01	.248000E-01	.657000E-01	.233000E-01	.179000E+00	.140700E+01
.607000E-02	.127000E-01	.149000E-01	.345000E-01	.141000E-01	.107000E+00	.579000E+00
.277000E-02	.774000E-02	.807000E-02	.477000E-01	.885000E-02	.651000E-01	.319000E+00
.414000E-01	.423000E-01	.550000E-02	.144000E-01	.514000E-02	.348000E-01	.193000E+00
.628000E-01	.473000E-01	.301000E-02	.876000E-02	.311000E-02	.239000E-01	.117000E+00
.400000E-01	.718000E-01	.516000E-01	.477000E-02	.140000E-02	.145000E-01	.707000E-01
.196000E-02	.579000E-01	.782000E-01	.759000E+01	.380000E-04	.884000E-02	.426000E-01
.365000E-02	.275000E-02	.547000E-01	.115000E+00	.136000E-01	.484000E-02	.260000E-01
.169000E-02	.588000E-02	.260000E-02	.524000E-01	.206000E-01	.391000E-01	.141000E-01
.148000E-02	.274000E-02	.577000E-02	.241000E-02	.148000E-01	.592000E-01	.690000E-01
.121000E-02	.141000E-02	.211000E-02	.817000E-02	.770000E-02	.671000E-01	.116000E+00
.144000E-02	.154000E-02	.180000E-02	.214000E-02	.141000E-02	.291000E-02	.494000E-01
.720000E-03	.154000E-02	.147000E-02	.185000E-02	.747000E-02	.567000E-02	.406000E-02
.454000E-03	.905000E-02	.151000E-02	.152000E-02	.713000E-02	.283000E-02	.891000E-02
.335000E-03	.578000E-03	.880000E-03	.156000E-02	.611000E-02	.257000E-02	.383000E-02
.256000E-03	.422000E-03	.555000E-03	.987000E-03	.445000E-03	.214000E-02	.329000E-02
.200000E-03	.322000E-03	.416000E-03	.123000E-01	.429000E+00	.123000E-02	.264000E-02
.147000E-02	.922000E-02	.199000E-02	.457000E-01	.623000E+00	.128000E-02	.264000E-02
.429000E-01	.148000E+00	.147000E+00	.144000E+00	.689000E+00	.807000E-03	.153000E-02
.147000E+00	.278000E+00	.435000E+00	.444000E+00	.978000E+00	.597000E-03	.968000E-03
.273000E+00	.360000E+00	.629000E+00	.721000E+00	.124000E+01	.455000E-03	.716000E-03
.196000E+00	.492000E+00	.712000E+00	.127000E+01	.144000E+01	.356000E-03	.546000E-03
.138000E+00	.326000E+00	.767000E+00	.149000E+01	.163000E+01	.249000E-01	.427000E-03
.130000E+00	.210000E+00	.501000E+00	.152000E+01	.152000E+01	.142000E+00	.245000E-02
0.	.210000E+00	.325000E+00	.119000E+01	.140000E+01	.130000E+00	.358000E-01
0.	0.	.325000E+00	.853000E+00	.106000E+01	.173000E+00	.429000E-01
0.	0.	0.	.853000E+00	.782000E+00	.412000E+00	.492000E-01
0.	0.	0.	0.	.782000E+00	.503000E+00	.136000E+00
0.	0.	0.	0.	0.	.503000E+00	.134000E+00
0.	0.	0.	0.	0.	0.	.134000E+00
0.	0.	0.	0.	0.	0.	.134000E+00

Neutron ID = 13, Atomic No. = 26, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.300132E+00	.398067E+00	.451526E+00	.587941E+00	.804238E+00	.988138E+00	.920797E+00
0.	.140503E-01	-.134981E-01	.564654E-02	.106693E-01	.233735E-01	-.125861E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.766146E+00	.610571E+00	.553553E+00	.442547E+00	.425426E+00	.555716E+00	.601547E+00
-.171671E-01	-.465959E-01	-.629937E-01	-.787050E-01	-.792623E-01	-.380724E-01	-.416668E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.433829E+00	.363209E+00	.343470E+00	.157362E+00	.185733E+00	.181554E+00	.214949E+00
-.356204E-01	-.719402E-01	-.286377E-01	-.702942E-02	-.792404E-01	-.799164E-01	-.886158E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.259166E+00	.247028E+00	.266894E+00	.266746E+00	.266581E+00	.266969E+00	.266806E+00
-.109778E-00	-.132137E+00	-.132095E+00	-.132291E+00	-.132277E+00	-.132151E+00	-.132488E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.266218E+00	.912667E-01	.354213E-01	.440561E-01	.562786E-01	.743889E-01	.102873E+00
-.131644E+00	-.131923E+00	0.	.732270E-01	.914001E-01	.117263E+00	.155831E+00
0.	0.	0.	0.	.736432E-01	.920528E-01	.118346E+00
0.	0.	0.	0.	0.	.753413E-01	.948261E-01
0.	0.	0.	0.	0.	0.	.789522E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.151460E+00	.244615E+00	.459063E+00	.114054E+01	.197486E+01	.230580E+01	.994418E+00
.216949E+00	.322024E+00	.524049E+00	.969041E+00	.107650E+01	.107913E+00	-.257610E+00
.157755E+00	.220672E+00	.329858E+00	.535311E+00	.390943E+00	-.431441E+00	0.
.123197E+00	.167042E+00	.240409E+00	.374342E+00	.240098E+00	-.326161E+00	0.
.100960E+00	.134515E+00	.190264E+00	.290534E+00	.173248E+00	-.250198E+00	0.
.855919E-01	.112848E+00	.158015E+00	.239716E+00	.135287E+00	-.201639E+00	0.
0.	.974108E-01	.135539E+00	.203167E+00	.111018E+00	-.168621E+00	0.
0.	0.	.118925E+00	.177150E+00	.940305E-01	-.144797E+00	0.
0.	0.	0.	.157213E+00	.815199E-01	-.126830E+00	0.
0.	0.	0.	0.	.719278E-01	-.112810E+00	0.
0.	0.	0.	0.	0.	-.101570E+00	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 13, Atomic No. = 26, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.194220E+00	.251242E+00	.296666E+00	.384221E+00	.522368E+00	.653528E+00	.648067E+00
0.	.167316E-01	.846352E-02	.613742E-02	.263835E-02	.189537E-03	-.223663E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.551363E+00	.478176E+00	.488548E+00	.427338E+00	.342096E+00	.308369E+00	.256044E+00
-.327529E-01	-.547842E-01	-.529296E-01	-.587006E-01	-.585935E-01	-.448944E-01	-.418366E-02
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.973746E-01	.778712E-01	.571856E-01	.473350E-02	.705831E-02	.322253E-02	.195101E-02
.786723E-02	.696284E-02	-.126552E-02	.616219E-03	-.135310E-02	-.119732E-02	-.140433E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.143666E-02	.882156E-03	.918720E-03	-.868520E-03	.872380E-03	.762730E-03	.918460E-03
-.171492E-02	-.18534E-02	-.185698E-02	-.184273E-02	-.184265E-02	-.184028E-02	-.186353E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.759880E-03	-.769310E-03	.352897E-01	.438519E-01	.559441E-01	.738016E-01	.101742E+00
-.183186E-02	-.183792E-02	0.	.723103E-01	.899512E-01	.114832E+00	.151425E+00
0.	0.	0.	0.	.715272E-01	.886357E-01	.112441E+00
0.	0.	0.	0.	0.	.715679E-01	.885274E-01
0.	0.	0.	0.	0.	0.	.726761E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.148982E+00	.238038E+00	.434960E+00	.973143E+00	.142731E+01	.123481E+01	.150856E+01
.208072E+00	.301210E+00	.462162E+00	.684573E+00	.321946E+00	-.252040E+00	.643496E-01
.146593E+00	.196692E+00	.266878E+00	.295976E+00	-.100820E+00	-.268555E+00	0.
.111784E+00	.143789E+00	.183570E+00	.1753.7E+00	-.123688E+00	-.130855E+00	0.
.899156E-01	.112788E+00	.139879E+00	.120431E+00	-.118491E+00	-.812915E-01	0.
.759952E-01	.926795E-01	.111795E+00	.900052E-01	-.18558E+00	-.574380E-01	0.
0.	.786818E-01	.934555E-01	.710180E-01	-.922986E-01	-.438125E-01	0.
0.	0.	.803081E-01	.581877E-01	-.763898E-01	-.351407E-01	0.
0.	0.	0.	.490172E-01	-.787912E-01	-.291956E-01	0.
0.	0.	0.	0.	-.723127E-01	-.248949E-01	0.
0.	0.	0.	0.	0.	-.216536E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 13, Atomic No. = 26, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.904450E-01	.122587E+00	.146286E+00	.204288E+00	.298418E+00	.434078E+00	.778027E+00
0.	.285378E-02	.270647E-03	.572924E-02	.107839E-01	.215648E-01	.737286E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.744736E+00	.768180E+00	.853729E+00	.864056E+00	.979101E+00	.617913E+00	.927837E-02
.741928E-01	.121125E+00	.128870E+00	.136099E+00	.131443E+00	.803879E-01	-.716973E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.206792E-02	.174823E-02	-.294400E-04	-.443177E-03	-.139057E-02	-.150467E-02	-.197059E-02
-.281394E-02	.331952E-02	-.565020E-03	-.606239E-03	-.196170E-03	-.807955E-04	-.534151E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.226819E-02	-.272668E-02	-.249520E-02	-.250324E-02	-.248949E-02	-.267411E-02	-.256055E-02
-.486111E-04	-.991014E-04	-.296720E-04	-.891788E-04	-.867257E-04	-.978540E-04	-.201086E-04
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.265301E-02	-.185028E-02	.350929E-01	.435469E-01	.554452E-01	.729274E-01	.100063E+00
-.440505E-04	-.150550E-04	0.	.709479E-01	.870033E-01	.111242E+00	.144953E+00
0.	0.	0.	0.	.684127E-01	.836331E-01	.103874E+00
0.	0.	0.	0.	0.	.660885E-01	.794796E-01
0.	0.	0.	0.	0.	0.	.637347E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.145323E+00	.228408E+00	.400647E+00	.759076E+00	.840224E+00	.379057E+00	.119201E+00
.195166E+00	.271496E+00	.377571E+00	.357048E+00	-.217727E+00	-.311695E+00	-.111938E-01
.130626E+00	.163267E+00	.184341E+00	.453308E-01	-.299087E+00	.223155E-01	0.
.956779E-01	.112013E+00	.111018E+00	-.204903E-01	-.219975E+00	.812598E-01	0.
.744940E-01	.835054E-01	.753652E-01	-.399964E-01	-.170816E+00	.741907E-01	0.
.605631E-01	.658713E-01	.551910E-01	-.459746E-01	-.138912E+00	.638485E-01	0.
0.	.539639E-01	.425653E-01	-.470683E-01	-.116791E+00	.551882E-01	0.
0.	0.	.340807E-01	-.462174E-01	-.100630E+00	.483274E-01	0.
0.	0.	0.	-.445805E-01	-.883370E-01	.428749E-01	0.
0.	0.	0.	0.	-.786857E-01	.384768E-01	0.
0.	0.	0.	0.	0.	.348704E-01	0.
0.	0.	0.	0.	0.	0.	0.

COPPER (Cu)

Neutron ID = 46, Atomic No. = 29, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
-.635059E+00	-.447086E+00	-.279545E+00	.492372E-01	.113260E+00	.940838E-01	.681160E-01
0.	0.	0.	0.	0.	0.	0.
.288438E+01	.295986E+01	.310625E+01	.334045E+01	.363930E+01	.386157E+01	.374457E+01
.882710E+00	.139010E+01	.155870E+01	.178227E+01	.198946E+01	.211329E+01	.204799E+01
n.	.479619E+00	.769172E-01	.576245E-01	.838830E-01	.129665E+00	.342558E+00
n.	0.	.302070E-02	.985067E-02	.324480E-01	.728347E-01	.277386E+00
n.	0.	0.	.949955E-02	.300238E-01	.641647E-01	.278963E+00
n.	0.	0.	0.	.280534E-01	.558809E-01	.222233E+00
n.	0.	0.	0.	0.	.507742E-01	.252147E+00
n.	0.	0.	0.	0.	0.	.355200E+00
n.	0.	0.	n.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.466201E-01	.315502E-01	.198260E-01	.125004E-01	.121544E-01	.139259E-01	.162120E-01
0.	0.	0.	0.	0.	0.	0.
.341692E+01	.317118E+01	.310683E+01	.322779E+01	.347951E+01	.400009E+01	.462960E+01
.174352E+01	.171353E+01	.197055E+01	.231250E+01	.300307E+01	.375319E+01	.438875E+01
.274027E+00	.251215E+00	.211631E+00	.216173E+00	.370304E+00	.211778E+00	.210397E+00
.197200E+00	.221202E+00	.238172E+00	.237100E+00	.355110E+00	.284157E+00	.674435E-01
.195712E+00	.217009E+00	.234674E+00	.245407E+00	.427085E+00	.297707E+00	.163977E+00
.177423E+00	.200924E+00	.218448E+00	.220112E+00	.410550E+00	.283625E+00	.164054E+00
.132182E+00	.172760E+00	.184544E+00	.183973E+00	.333538E+00	.254943E+00	.150335E+00
.273485E+00	.223782E+00	.152244E+00	.154606E+00	.259014E+00	.189117E+00	.129618E+00
.992044E+00	.276371E+00	.243901E+00	.123481E+00	.209255E+00	.137166E+00	.908914E-01
n.	.293968E+00	.256888E+00	.212724E+00	.170581E+00	.105815E+00	.632025E-01
n.	0.	.271075E+00	.220996E+00	.310537E+00	.133607E+00	.475296E-01
n.	0.	0.	.230804E+00	.311727E+00	.176585E+00	.704758E-01
n.	0.	0.	0.	.320408E+00	.168026E+00	.868690E-01
n.	0.	0.	0.	0.	.169353E+00	.789386E-01
n.	0.	0.	0.	0.	0.	.784816E-01
n.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.229280E-01	.285430E-01	.458480E-01	.124489E+00	.220080E+00	.350355E+00	.228145E+01
0.	0.	0.	0.	0.	0.	0.
.483932E+01	.551999E+01	.983590E+01	.155401E+02	.144653E+02	.192937E+02	.120716E+02
.453304E+01	.531047E+01	.899631E+01	.145803E+02	.140782E+02	.187939E+02	.959548E+01
.224678E+00	.283352E+00	.180977E+00	.793742E+00	.835311E+00	.167020E+00	.149445E+00
0.	0.	0.	0.	0.	0.	0.
.950969E-01	.112918E-01	.707442E-02	0.	0.	0.	0.
.521818E-01	.732402E-01	0.	.264201E-02	0.	0.	0.
.782828E-01	.764394E-01	.132958E-01	.284402E-02	0.	0.	0.
.685979E-01	.464678E-01	.499876E-02	0.	.940570E-03	0.	0.
.574455E-01	.405095E-01	.789920E-02	.704384E-03	.469284E-03	.340091E-03	0.
.390510E-01	.334269E-01	.614461E-02	.100346E-02	.914901E-04	.705058E-04	.881982E-04
.764625E-01	.220935E-01	.580194E-02	.862621E-03	.138254E-04	.985232E-05	.999735E-05
.195923E-01	.146987E-01	.324611E-02	.688681E-03	.118551E-04	.187587E-04	0.
.376219E-01	.107626E-01	.213028E-02	.450302E-03	.958431E-04	.180706E-04	0.
.381797E-01	.284778E-01	.154498E-02	.294001E-03	.616257E-04	0.	0.
.335528E-01	.220405E-01	.557273E-02	.212893E-03	.401634E-04	0.	0.
.329934E-01	.188661E-01	.329363E-02	.675644E-03	.290447E-04	0.	0.
n.	.184115E-01	.276125E-02	.460042E-03	.125735E-04	0.	0.
n.	0.	.309992E-02	.434944E-03	.631104E-04	.145262E-04	0.
n.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.397271E+00	.541980E-01	.920780E-01	.156535E+00	.263736E+00	.440879E+00	.733643E+00
0.	0.	0.	0.	0.	0.	0.
.773710E+01	.853391E+01	.917766E+01	.921606E+01	.796374E+01	.814088E+01	.843364E+01
.708911E+01	.820143E+01	.879398E+01	.881724E+01	.745845E+01	.745728E+01	.745884E+01
.194468E+00	.250719E+00	.278282E+00	.291602E+00	.242235E+00	.241554E+00	.242721E+00
n.	0.	0.	0.	0.	0.	0.



Neutron ID = 46, Atomic No. = 29, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
n. 0. 0. .850630E+00 0. n.	0. 0. 0. -123277E+01 -289394E+00 0.	0. 0. 0. .133469E+01 -.885167E-02 0.	0. 0. 0. .151070E+01 .452747E-02 0.	0. 0. 0. .167336E+01 .796277E-02 0.	0. 0. 0. .164051E+01 .147963E-01 0.	0. 0. 0. .140700E+01 .127868E-01 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
n. n. n. .974403E+00 -.132002E-01 n.	0. 0. 0. .883790E+00 -.140308E-01 0.	0. 0. 0. .818633E+00 -.273832E-01 0.	0. 0. 0. .407197E+00 -.534893E-01 0.	0. 0. 0. .650917E+00 -.883590E-01 0.	0. 0. 0. .655063E+00 -.511930E-01 0.	0. 0. 0. .685447E+00 -.573247E-01 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .417623E+00 -.631003E-01 n.	0. 0. n. .223966E+00 -.856670E-01 0.	0. 0. 0. .389553E+00 -.52987E-01 0.	n. 0. 0. .449473E+00 -.238263E+00 0.	0. 0. 0. .204084E+00 -.178281E+00 0.	0. 0. 0. .248858E+00 -.533267E-01 0.	0. 0. 0. .166598E+00 -.483807E-01 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
n. 0. 0. .159333E+00 -.629907E-01 0.	0. 0. n. .180444E+00 -.816560E-01 0.	0. 0. 0. .191241E+00 -.907033E-01 0.	0. 0. 0. .174903E+00 -.450877E-01 0.	0. 0. 0. .160297E+00 -.790263E-01 0.	0. 0. 0. .160676E+00 -.788073E-01 0.	0. n. 0. .160163E+00 -.791867E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
n. 0. 0. .159774E+00 -.786740E-01 n. n. n. n.	0. 0. 0. .814890E-01 -.782853E-01 0. n. n. n. 0.	0. 0. 0. .395084E-01 0. 0. 0. 0. 0.	0. 0. 0. .491395E-01 -.816763E-01 0. 0. 0. 0. 0.	0. 0. 0. .627723E-01 .101946E+00 .821405E-01 0. 0. 0. 0.	0. 0. 0. .829722E-01 .130793E+00 .102674E+00 .840345E-01 0. 0. 0. 0.	0. 0. 0. .114743E+00 .173812E+00 .132000E+00 .105768E+00 .880620E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
n. 0. 0. .168930E+00 .241982E+00 .175957E+00 .137412E+00 .112609E+00 .95679E-01 0. 0. 0. 0. n. n. n. n. 0.	0. 0. 0. .272840E+00 .359181E+00 .246134E+00 .186316E+00 .150036E+00 .125849E+00 .180651E+00 n. 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .512031E+00 .584571E+00 .367918E+00 .26A372E+00 .212218E+00 .176247E+00 .151178E+00 .132647E+00 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .127214E+01 .109085E+01 .597078E+00 .417542E+00 .324123E+00 .266260E+00 .226610E+00 .197540E+00 .175353E+00 0. 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .220273E+01 .120072E+01 .436052E+00 .267802E+00 .192239E+00 .151009E+00 .123824E+00 .104880E+00 .904261E-01 .802272E-01 0. 0. 0. 0.	0. 0. 0. .257186E+01 .120365E+00 -.481223E+00 .363795E+00 -.278967E+00 -.224905E+00 -.188077E+00 -.161504E+00 -.141464E+00 -.125824E+00 -.113290E+00 0. 0. 0. 0.	0. 0. 0. .110916E+01 -.287334E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 46, Atomic No. = 29, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
n. n. n. .789610E+00 0. 0.	0. 0. 0. .185797E+01 .208428E+00 0.	0. 0. 0. .114660E+01 .753672E-02 0.	0. 0. 0. .127910E+01 .870656E-02 0.	0. 0. 0. .138865E+01 .113180E-01 0.	0. 0. 0. .125840E+01 .164772E-01 0.	0. 0. 0. .105710E+01 .130005E-01 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .695642E+00 .176963E+02 0.	0. 0. 0. .599056E+00 -.544678E-02 0.	0. 0. 0. .544458E+00 -.215394E-02 0.	0. 0. 0. .530974E+00 .110108E-01 0.	0. 0. 0. .412058E+00 .243220E-01 0.	0. 0. 0. .285292E+00 .479816E-02 0.	0. 0. 0. .200866E+00 -.150993E-02 0.



GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .741714E-01 -.512678E-02 0.	0. 0. 0. .156009E-01 -.410954E-02 0.	0. 0. 0. .109105E-01 -.369142E-02 0.	0. 0. 0. .272008E-02 -.114479E-01 0.	0. 0. 0. .210672E-02 -.657456E-01 0.	0. 0. 0. .180545E-02 -.138873E-02 0.	0. 0. 0. .158009E-02 -.850672E-03 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .151055E-02 -.108665E-02 0.	0. 0. 0. .165184E-02 -.114881E-02 0.	0. 0. 0. .171569E-02 -.122444E-02 0.	0. 0. 0. .148003E-02 -.125775E-02 0.	0. 0. 0. .140666E-02 -.102341E-02 0.	0. 0. 0. .141239E-02 -.101857E-02 0.	0. 0. 0. .140731E-02 -.102430E-02 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .139455E-02 -.101922E-02 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .388096E-03 -.100645E-02 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .393610E-01 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .489117E-01 -.806538E-01 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .623992E-01 -.100330E+00 -.797803E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .823172E-01 -.128082E+00 -.988623E-01 -.798257E-01 0. 0. 0. 0. 0.	0. 0. 0. .113482E+00 -.168897E+00 -.125415E+00 -.987421E-01 -.810618E-01 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .166173E+00 .232040E+00 .163507E+00 .124602E+00 .100291E+00 .037601E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .765495E+00 .335965E+00 .219376E+00 .160308E+00 .125793E+00 .107373E+00 .877596E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .485147E+00 -.515488E+00 .297471E+00 .204751E+00 .155127E+00 .124695E+00 .104239E+00 .095745E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .108543E-01 .763562E+00 .330147E+00 .195503E+00 .134327E+00 .100340E+00 .792101E-01 .649017E-01 .546730E-01 0. 0. 0. 0. 0. 0.	0. 0. 0. .159200E+01 .359093E+00 -.112453E+00 -.137960E+00 -.129887E+00 -.117737E+00 -.108295E+00 -.963576E-01 -.478825E-01 -.806544E-01 0. 0. 0. 0. 0.	0. 0. 0. .137640E-01 -.281121E+00 -.299542E+00 -.145954E+00 -.906713E-01 -.640655E-01 -.488674E-01 -.391950E-01 -.325644E-01 -.277674E-01 -.241521E-01 0. 0. 0. 0. 0.	0. 0. 0. .168039E+01 .717746E-01 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 46, Atomic No. = 29, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .705507E+00 0. 0.	0. 0. 0. .896849E+00 .148867E+00 0.	0. 0. 0. .952317E+00 .285171E-02 0.	0. 0. 0. .102614E+01 .282117E-02 0.	0. 0. 0. .108372E+01 .240116E-02 0.	0. 0. 0. .865114E+00 .162713E-02 0.	0. 0. 0. .774721E+00 -.148800E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .536269E+00 .543076E-02 0.	0. 0. 0. .426574E+00 .126388E-01 0.	0. 0. 0. .366693E+00 .128595E-01 0.	0. 0. 0. .277126E+00 -.270889E-02 0.	0. 0. 0. .145380E+00 -.121061E-01 0.	0. 0. 0. .536217E-01 -.640289E-02 0.	0. 0. 0. .502584E-01 -.425954E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .274906E-01 -.104474E-02 0.	0. 0. 0. -.577617E-02 .4598863E-03 0.	0. 0. 0. -.441837E-02 .858186E-03 0.	0. 0. 0. .978737E-01 .119823E-01 0.	0. 0. 0. .143969E-04 -.240230E-01 0.	0. 0. 0. .108574E-04 -.143969E-04 0.	0. 0. 0. .137297E-04 -.108574E-04 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .132558E-04 -.137297E-04 0.	0. 0. 0. .141137E-04 -.132558E-04 0.	0. 0. 0. .144377E-04 -.141137E-04 0.	0. 0. 0. .117042E-04 -.144377E-04 0.	0. 0. 0. .116452E-04 -.117042E-04 0.	0. 0. 0. .117122E-04 -.116452E-04 0.	0. 0. 0. .116570E-04 -.117122E-04 0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.114973E+04	0.	.391421E+01	.485715E-01	.618428E-01	.813421E-01	.111609E+00
-.116570E-04	-.114973E+04	0.	.791342E-01	.979344E-01	.124078E+00	.161678E+00
0.	0.	0.	0.	.763064E-01	.932831E-01	.115860E+00
0.	0.	0.	0.	0.	.737141E-01	.886504E-01
0.	0.	0.	0.	0.	0.	.710887E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.162091E+00	.254763E+00	.446875E+00	.846662E+00	.937172E+00	.422794E+00	.132955E+00
.217679E+00	.302823E+00	.421137E+00	.398246E+00	-.242850E+03	-.347660E+00	-.124854E-01
.145698E+00	.182105E+00	.205611E+00	.50511E-01	-.333597E+00	.248903E-01	0.
.106717E+00	.124938E+00	.123628E+00	-.228546E-01	-.245357E+00	.906360E-01	0.
.830895E-01	.931406E-01	.840612E-01	-.446114E-01	-.190525E+00	.827511E-01	0.
.675512E-01	.734161E-01	.615592E-01	-.512782E-01	-.154940E+00	.712156E-01	0.
0.	.601906E-01	.474767E-01	-.524042E-01	-.130267E+00	.615561E-01	0.
0.	0.	.380131E-01	-.515501E-01	-.112241E+00	.539036E-01	0.
0.	0.	0.	-.497244E-01	-.985297E-01	.478220E-01	0.
0.	0.	0.	0.	-.877649E-01	.429165E-01	0.
0.	0.	0.	0.	0.	.388939E-01	0.
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 30, Atomic No. = 74, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.122747E+01	.122941E+01	.122094E+01	.122444E+01	.123174E+01	.126546E+01	.145198E+01
0.	.271261E-01	.288330E-02	.375634E-02	.423233E-03	-.240574E-02	-.410811E-02
0.	0.	0.	0.	.271362E-00	.387881E-05	.533547E-03
0.	0.	0.	0.	.296771E-00	.377581E-05	.154062E-03
0.	0.	0.	0.	.336537E-00	.403803E-05	.143075E-03
0.	0.	0.	0.	0.	.444073E-05	.148431E-03
0.	0.	0.	0.	0.	0.	.156870E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.174835E+01	.198124E+01	.209583E+01	.222406E+01	.220481E+01	.193397E+01	.164928E+01
-.309656E-02	-.336011E-02	.789381E-03	.528802E-02	.242595E-01	.301806E-01	.140766E-01
.210379E-02	.465674E-02	.745759E-02	.103774E-01	.269539E-01	.272309E-01	.188235E-01
.127466E-02	.443944E-02	.805391E-02	.111014E-01	.72734E-01	.260943E-01	.186712E-01
.357106E-03	.264198E-02	.717885E-02	.111013E-01	.276074E-01	.252981E-01	.174960E-01
.324139E-03	.726008E-03	.421214E-02	.437508E-02	.754022E-01	.244037E-01	.165228E-01
.331647E-03	.649475E-03	.114003E-02	.544007E-02	.202140E-01	.208916E-01	.154643E-01
.343943E-03	.658702E-03	.100823E-02	.145446E-02	.115880E-01	.157647E-01	.126575E-01
0.	.675018E-03	.101549E-02	.127510E-02	.305923E-02	.894074E-02	.923536E-02
0.	0.	.103093E-02	.127741E-02	.265525E-02	.233351E-02	.520293E-02
0.	0.	0.	.128714E-02	.264424E-02	.200797E-02	.134828E-02
0.	0.	0.	0.	.264361E-02	.198918E-02	.115392E-02
0.	0.	0.	0.	0.	.197472E-02	.113942E-02
0.	0.	0.	0.	0.	0.	.112617E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.115101E+01	.534590E+00	.784043E-01	.497484E-01	.741109E-01	.806521E-01	.764255E-01
-.194780E-01	-.314089E-01	-.146887E-01	-.152070E-01	-.112478E-01	-.287002E-01	-.336398E-01
.963367E-02	.327380E-02	.107566E-03	.158728E-04	0.	0.	0.
.980926E-02	.253782E-02	.169332E-03	.867604E-05	.146687E-05	0.	0.
.998657E-02	.665700E-02	.385653E-03	.147342E-04	.916184E-06	.214629E-06	0.
.923139E-02	.661334E-02	.101492E-02	.527185E-04	.134511E-05	0.	0.
.857548E-02	.405324E-02	.109145E-02	.147567E-03	.681334E-05	0.	0.
.787748E-02	.555651E-02	.991817E-03	.158119E-03	.205360E-04	0.	0.
.627193E-02	.403587E-02	.402449E-03	.143294E-03	.214828E-04	.820309E-06	.112023E-06
.448144E-02	.391054E-02	.809861E-03	.129964E-03	.1494024E-04	.279682E-05	.381907E-06
.351441E-02	.276648E-02	.622940E-03	.116144E-03	.180293E-04	.270474E-05	.408598E-06
.648717E-03	.154742E-02	.433577E-03	.888909E-04	.1600971E-04	.245247E-05	.369744E-06
.553354E-03	.357997E-03	.242003E-03	.616124E-04	.122900E-04	.218854E-05	.334742E-06
.545308E-03	.338682E-03	.620941E-04	.343611E-04	.850541E-05	.166970E-05	.298662E-06
.537508E-03	.333273E-03	.527467E-04	.888885E-05	.474202E-05	.115488E-05	.227797E-06
0.	.327867E-03	.518489E-04	.747704E-05	.121528E-05	.643809E-06	.157527E-06
0.	0.	.509346E-04	.73470E-05	.101341E-05	.164975E-06	0.
0.	0.	0.	.721427E-05	.101331E-05	.140002E-06	0.
0.	0.	0.	0.	.994709E-06	.137537E-06	0.
0.	0.	0.	0.	0.	.135003E-06	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.105688E+00	.615673E-01	.229984E+00	.395285E+01	.850230E-01	.281609E-01	.291669E-01
-.237798E-01	-.338265E-01	-.120351E-01	-.179690E+00	-.217334E-01	-.191348E-01	-.103053E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.334326E-01	.250823E-01	.100815E+00	.125340E+00	.160178E+00	.211722E+00	.292792E+00
-.116757E-01	-.134142E-01	0.	.208813E+00	.240139E+00	.333748E+00	.443520E+00
0.	0.	0.	0.	.209600E+00	.261996E+00	.336288E+00
0.	0.	0.	0.	0.	.214433E+00	.249890E+00
0.	0.	0.	0.	0.	0.	.224710E+00
0.	0.	0.	0.	0.	0.	0.

GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.431079E+00	.646212E+00	.130656E+01	.324615E+01	.562076E+01	.656268E+01	.283027E+01
.617471E+00	.916530E+00	.149167E+01	.275804E+01	.306390E+01	.307138E+00	-.733197E+00
.448944E+00	.628066E+00	.938825E+00	.152358E+01	.111268E+01	.122795E+01	0.
.350638E+00	.475426E+00	.684111E+00	.106558E+01	.683357E+00	-.928305E+00	0.
.287347E+00	.382956E+00	.541522E+00	.827073E+00	.493092E+00	-.711846E+00	0.
.743608E+00	.321183E+00	.444739E+00	.679423E+00	.385333E+00	-.573895E+00	0.
0.	.277248E+00	.385765E+00	.578246E+00	.315975E+00	-.47921E+00	0.
0.	0.	.338479E+00	.504195E+00	.267625E+00	-.412113E+00	0.
0.	0.	0.	.447453E+00	.232018E+00	-.360977E+00	0.
0.	0.	0.	0.	.204718E+00	-.321074E+00	0.
0.	0.	0.	0.	0.	-.289084E+00	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 30, Atomic No. = 74, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.776220E+00	.789136E+00	.881630E+00	.830850E+00	.866400E+00	.917140E+00	.109102E+01
0.	.927705E-02	.478606E-02	.749201E-02	.827600E-02	.131492E-01	.161472E-01
0.	0.	0.	0.	.108540E-04	.155146E-05	.213410E-03
0.	0.	0.	0.	.118704E-06	.151024E-05	.616223E-04
0.	0.	0.	0.	.134609E-06	.161514E-05	.572277E-04
0.	0.	0.	0.	0.	.177622E-05	.593700E-04
0.	0.	0.	0.	0.	0.	.627455E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.125753E+01	.137585E+01	.141032E+01	.144198E+01	.135744E+01	.108594E+01	.794503E+00
.139109E+01	.213529E+01	.202608E+01	.185941E+01	.205000E+01	.200214E+01	.137596E+01
.841482E+03	.186242E+02	.298291E+02	.414850E+02	.107811E+01	.108919E+01	.152904E+02
.509842E+03	.177570E+02	.327143E+02	.444025E+02	.109094E+01	.104333E+01	.746817E+02
.142834E+03	.105675E+02	.287142E+02	.444033E+02	.110427E+01	.101184E+01	.699813E+02
.129649E+03	.790391E+03	.168400E+02	.375008E+02	.101605E+01	.976104E+02	.660844E+02
.132633E+03	.259784E+03	.455944E+03	.217594E+02	.808527E+02	.835674E+02	.618547E+02
.137571E+03	.743474E+03	.406180E+03	.581940E+03	.464944E+02	.430542E+02	.506274E+02
0.	.769996E+03	.412354E+03	.510903E+03	.127344E+02	.357614E+02	.369399E+02
0.	0.	0.	.514856E+03	.106206E+02	.933344E+03	.208109E+02
0.	0.	0.	0.	.105705E+02	.803134E+03	.539290E+03
0.	0.	0.	0.	.109740E+02	.795634E+03	.461449E+03
0.	0.	0.	0.	0.	.749854E+03	.455758E+03
0.	0.	0.	0.	0.	0.	.450451E+03
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.490735E+00	.219698E+00	.120423E+01	-.185872E-02	-.208901E+02	-.203761E-02	-.240193E-02
.197941E+02	.267752E+03	.120512E+04	-.412194E+04	.550458E+05	-.765882E+04	-.160997E+03
.385331E+02	.130947E+02	.410247E+04	.634844E+05	0.	0.	0.
.392354E+02	.101509E+02	.677300E+04	.347044E+05	.786714E+06	0.	0.
.390445E+02	.266264E+02	.154255E+03	.589544E+05	.360459E+06	0.	0.
.369247E+02	.264523E+02	.406353E+03	.210805E+04	.542021E+06	0.	0.
.343002E+02	.242121E+02	.436562E+03	.590245E+04	.264525E+06	0.	0.
.315084E+02	.222751E+02	.396710E+03	.637433E+04	.821432E+05	.328110E+06	0.
.750667E+02	.201426E+02	.360983E+03	.573152E+04	.874276E+05	.111864E+05	0.
.179254E+02	.157214E+02	.323931E+03	.519834E+04	.790644E+05	.119702E+05	.152757E+06
.100572E+02	.110655E+02	.249164E+03	.464756E+04	.721142E+05	.108334E+05	.163432E+06
.259474E+03	.618981E+03	.173424E+03	.355549E+04	.643856E+05	.980949E+06	.147891E+06
.221334E+03	.159192E+03	.967972E+04	.246439E+04	.491574E+05	.875380E+06	.133891E+06
.218114E+03	.135467E+03	.248366E+04	.137439E+04	.340202E+05	.667853E+06	.119460E+06
.214995E+03	.133304E+03	.210978E+04	.352339E+05	.189673E+05	.461933E+06	0.
0.	.131141E+03	.207387E+04	.299103E+05	.486092E+06	.257513E+06	0.
0.	0.	.203730E+04	.293896E+05	.412547E+06	0.	0.
0.	0.	0.	.288554E+05	.405305E+06	0.	0.
0.	0.	0.	0.	.397867E+06	0.	0.
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.327121E+02	-.245854E+02	.679726E+02	-.184126E+00	-.342893E+02	-.808557E+03	-.785788E+03
-.644855E+04	-.912249E+04	.140223E+03	-.934680E+02	-.140224E+02	.285553E+03	-.264839E+04
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.914684E+03	-.117295E+02	.180440E+00	.124809E+00	.159226E+00	.210051E+00	.289574E+00
-.312340E+04	-.359818E+04	0.	.205806E+00	.258015E+00	.326830E+00	.430978E+00
0.	0.	0.	0.	.203577E+00	.252269E+00	.320025E+00
0.	0.	0.	0.	0.	.203693E+00	.251963E+00
0.	0.	0.	0.	0.	0.	.206847E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.424026E+00	.677470E+00	.123796E+01	.276871E+01	.406234E+01	.351218E+01	.428749E+01
.592205E+00	.857291E+00	.131538E+01	.194840E+01	.918307E+00	-.717344E+00	.183149E+00
.17225E+00	.459786E+00	.759575E+00	.462344E+00	-.286948E+00	-.764349E+00	0.
.318155E+00	.409245E+00	.522469E+00	.499024E+00	-.352036E+00	-.372434E+00	0.
.255914E+00	.320988E+00	.395840E+00	.342766E+00	-.331436E+00	-.231364E+00	0.
.213733E+00	.263780E+00	.318186E+00	.256169E+00	-.300433E+00	-.163477E+00	0.
0.	.223938E+00	.265989E+00	.202122E+00	-.271235E+00	-.124697E+00	0.
0.	0.	.228569E+00	.165611E+00	-.245878E+00	-.100015E+00	0.
0.	0.	0.	.139511E+00	-.224252E+00	-.830953E-01	0.
0.	0.	0.	0.	-.205813E+00	-.708547E-01	0.
0.	0.	0.	0.	0.	-.616294E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 30, Atomic No. = 74, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.489990E+00	.389280E+00	.369900E+00	.342060E+00	.310590E+00	.289840E+00	.288270E+00
0.	.156894E-01	.243499E-02	.113628E-02	-.208604E-02	-.514975E-02	-.758020E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.354660E+00	.411020E+00	.447922E+00	.515640E+00	.396481E+00	.231116E+00	.155717E+00
-.729268E-02	-.107147E-01	-.944097E-02	-.701486E-02	-.334574E-02	-.595735E-02	-.374177E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.896383E-01	.386262E-01	.194020E-03	-.273580E-02	-.321422E-02	-.328329E-02	-.344852E-02
-.272930E-02	-.141769E-02	-.886453E-04	-.757026E-05	.863934E-05	.184960E-04	.191652E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.497296E-02	-.344440E-02	-.338144E-02	-.274681E+00	-.468963E-02	-.123459E-02	-.12883E-02
-.115998E-04	-.145238E-04	.207685E-04	-.325241E-03	.184501E-04	.515621E-04	-.506401E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.141038E-02	-.174956E-02	.998798E-01	.123941E+00	.157806E+00	.207563E+00	.284794E+00
-.460872E-05	.569185E-05	0.	.201924E+00	.249902E+00	.316612E+00	.412559E+00
0.	0.	0.	0.	.194713E+00	.238033E+00	.295642E+00
0.	0.	0.	0.	0.	.188098E-00	.226211E+00
0.	0.	0.	0.	0.	0.	.181399E+00
0.	0.	0.	0.	0.	0.	0.

GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.413612E+00	.650084E+00	.114030E+01	.216045E+01	.239141E+01	.107885E+01	.339265E+00
.555456E+00	.772720E+00	.107463E+01	.101621E+01	-.619686E+00	-.887132E+00	-.318593E-01
.371781E+00	.464483E+00	.524664E+00	.129019E+00	-.851247E+00	.435133E-01	0.
.272312E+00	.318807E+00	.315975E+00	-.583185E-01	-.626003E+00	.231278E+00	0.
.212921E+00	.237669E+00	.214501E+00	-.113846E+00	-.486168E+00	.211158E+00	0.
.172372E+00	.187338E+00	.157082E+00	-.130848E+00	-.395364E+00	.181723E+00	0.
n.	.153590E+00	.121147E+00	-.133964E+00	-.332408E+00	.157074E+00	0.
n.	0.	.969988E-01	-.131542E+00	-.286409E+00	.137547E+00	0.
0.	0.	0.	-.126803E+00	-.251421E+00	.122029E+00	0.
0.	0.	0.	0.	-.223952E+00	.109511E+00	0.
n.	0.	0.	0.	0.	.992465E-01	0.
n.	0.	0.	0.	0.	0.	0.



LEAD, PLUMBUM (Pb)

Neutron ID = 4, Atomic No. = 82, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
-.244490E+01	-.200339E+01	-.200000E+01	-.145035E+01	-.362200E+00	-.149775E-02	0.
0.	0.	0.	0.	0.	0.	0.
.387076E+01	.385200E+01	.389369E+01	.386251E+01	.395662E+01	.452705E+01	.588349E+01
.121495E+01	.128402E+01	.133349E+01	.130468E+01	.143921E+01	.193784E+01	.347489E+01
0.	.225391E+00	.972191E-01	.997446E-01	.115017E+00	.181458E+00	.296444E+00
0.	0.	.658755E-01	.430801E-01	.768662E-01	.806334E-01	.224142E+00
0.	0.	0.	.878340E-01	.102854E+00	.553833E-01	.119206E+00
0.	0.	0.	0.	.106215E+00	.711348E-01	.181069E+00
0.	0.	0.	0.	0.	.138248E+00	.307713E+00
0.	0.	0.	0.	0.	0.	.303031E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	.544700E-04	.564134E-03	.957279E-03
0.	0.	0.	0.	0.	0.	0.
.624237E+01	.564314E+01	.500809E+01	.484500E+01	.539337E+01	.536854E+01	.553509E+01
.439618E+01	.438422E+01	.387595E+01	.403065E+01	.499707E+01	.526819E+01	.540195E+01
.280817E+00	.238792E+00	.190890E+00	.187296E+00	.348178E+00	.138772E+00	.628661E-01
.181620E+00	.103068E+00	.125883E+00	.407389E-01	.356643E+00	.155455E+00	.981892E-01
.155240E+00	.263377E+00	.232086E+00	.178649E+00	.429551E+00	.335095E+00	.116494E+00
.836931E-01	.215303E+00	.316864E+00	.286691E+00	.480394E+00	.387447E+00	.794134E-01
.193698E+00	.114945E+00	.251900E+00	.327691E+00	.584973E+00	.388731E+00	.228878E+00
.367612E+00	.270004E+00	.153066E+00	.259456E+00	.550711E+00	.445322E+00	.233748E+00
.308766E+00	.478997E+00	.332881E+00	.209017E+00	.484240E+00	.343878E+00	.257444E+00
0.	.391838E+00	.555810E+00	.382193E+00	.648262E+00	.353046E+00	.176081E+00
0.	0.	.424926E+00	.558573E+00	.858600E+00	.850667E+00	.264341E+00
0.	0.	0.	.405948E+00	.912545E+00	.835728E+00	.740534E+00
0.	0.	0.	0.	.628021E+00	.555092E+00	.616944E+00
0.	0.	0.	0.	0.	.462087E+00	.279402E+00
0.	0.	0.	0.	0.	0.	.453939E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.100000E-02	.100000E-02	.100000E-02	.100000E-02	.100000E-02	.999998E-03	.116916E-02
0.	0.	0.	0.	0.	0.	0.
.756079E+01	.972267E+01	.105174E+02	.105779E+02	.110005E+02	.110004E+02	.110007E+02
.736081E+01	.947309E+01	.102732E+02	.103105E+02	.107332E+02	.107335E+02	.107335E+02
.137178E+00	.199178E+00	.248588E+00	.243268E+00	.266316E+00	.266280E+00	.266067E+00
0.	0.	0.	0.	0.	0.	0.
.981892E-01	0.	0.	0.	0.	0.	0.
.194221E+00	0.	0.	0.	0.	0.	0.
.143827E+00	0.	0.	0.	0.	0.	0.
.115358E+00	.253578E-01	0.	0.	0.	0.	0.
.115328E+00	.730839E-01	.405026E-02	0.	0.	.358999E-01	0.
.124116E+00	.719786E-01	.116733E-01	.450469E-03	0.	.594121E-01	.101943E-02
.791711E-01	.762615E-01	.113743E-01	.129830E-02	0.	0.	.168710E-02
.219326E+00	.468409E-01	.119169E-01	.125955E-02	0.	0.	0.
.468711E+00	.231944E+00	.722405E+02	.131445E-02	0.	0.	0.
.355910E+00	.353166E+00	.585501E-01	.797708E-03	0.	0.	0.
.123310E+00	.252219E+00	.642156E-01	.771881E-02	0.	0.	0.
.436354E+00	.711487E-01	.430382E-01	.744715E-02	0.	0.	0.
0.	.512033E+00	.106081E-01	.502480E-02	0.	0.	0.
0.	0.	.131011E+00	.115182E-02	0.	0.	0.
0.	0.	0.	.171525E-01	0.	0.	0.
0.	0.	0.	0.	0.	.493965E-02	0.
0.	0.	0.	0.	0.	0.	.140269E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.186796E-02	.388824E-02	.472926E-02	.743944E-02	.128901E-01	.215262E-01	.356844E-01
0.	0.	0.	0.	0.	0.	0.
.118015E+02	.110025E+02	.110043E+02	.110070E+02	.110117E+02	.110212E+02	.110874E+02
.167333E+02	.167333E+02	.107334E+02	.107342E+02	.107337E+02	.107335E+02	.107831E+02
.265984E+00	.264253E+00	.266198E+00	.266229E+00	.266351E+00	.265843E+00	.266083E+00
0.	0.	0.	0.	0.	0.	0.



Neutron ID = 4, Atomic No. = 82, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .906510E+00 0. 0.	0. 0. 0. .899420E+00 .592318E-01 0.	0. 0. 0. .879470E+00 .142927E-01 0.	0. 0. 0. .016270E+00 .138956E-01 0.	0. 0. 0. .904810E+00 .175518E-01 0.	0. 0. 0. .123124E+01 .367528E-01 0.	0. 0. 0. .190001E+01 .469558E-01 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .149339E+01 .563924E-01 0.	0. 0. 0. .144120E+01 .102901E-01 0.	0. 0. 0. .119077E+01 .653795E-02 0.	0. 0. 0. .105536E+01 .123393E-01 0.	0. 0. 0. .850571E+00 .221380E-01 0.	0. 0. 0. .574357E+00 .156112E-01 0.	0. 0. 0. .884621E+00 .014108E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .982874E+00 .147241E-01 0.	0. 0. 0. .798178E+00 .236119E-01 0.	0. 0. 0. .435417E+00 .711438E-02 0.	0. 0. 0. .192684E+00 .403137E-02 0.	0. 0. 0. .347920E-01 .439219E-03 0.	0. 0. 0. .348678E-01 .439167E-03 0.	0. 0. 0. .348093E-01 .438784E-03 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .348213E-01 .438664E-03 0.	0. 0. 0. .348115E-01 .439112E-03 0.	0. 0. 0. .348348E-01 .439022E-03 0.	0. 0. 0. .348379E-01 .439066E-03 0.	0. 0. 0. .348197E-01 .439269E-03 0.	0. 0. 0. .349030E-01 .438624E-03 0.	0. 0. 0. .348992E-01 .438798E-03 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .349655E-01 .442937E-03 0. 0. 0. 0.	0. 0. 0. .357011E-01 .440028E-03 0. 0. 0. 0.	0. 0. 0. .111713E+00 0. 0. 0. 0.	0. 0. 0. .138946E+00 .230947E+00 0. 0. 0. 0.	0. 0. 0. .177494E+00 .288262E+00 .232259E+00 0. 0. 0. 0.	0. 0. 0. .234611E+00 .369829E+00 .290320E+00 .237613E+00 0. 0. 0. 0.	0. 0. 0. .324446E+00 .491468E+00 .373242E+00 .299067E+00 .249003E+00 0. 0. 0. 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .477687E+00 .684225E+00 .497534E+00 .388545E+00 .318412E+00 .269944E+00 0. 0. 0. 0. 0.	0. 0. 0. .771478E+00 .101561E+01 .695966E+00 .526823E+00 .424240E+00 .355906E+00 .307219E+00 0. 0. 0. 0. 0.	0. 0. 0. .144781E+01 .165293E+01 .104032E+01 .758844E+00 .600064E+00 .498354E+00 .427469E+00 .375071E+00 0. 0. 0. 0. 0.	0. 0. 0. .359704E+01 .305621E+01 .168824E+01 .114074E+01 .916486E+00 .752874E+00 .640754E+00 .558703E+00 .495824E+00 0. 0. 0. 0. 0.	0. 0. 0. .622841E+01 .339513E+01 .123298E+01 .757233E+00 .546399E+00 .426991E+00 .350134E+00 .296558E+00 .257101E+00 .226844E+00 0. 0. 0. 0. 0.	0. 0. 0. .727215E+01 .340342E+00 .136070E+01 .102866E+01 .788802E+00 .635938E+00 .531804E+00 .456646E+00 .400002E+00 .355784E+00 .320337E+00 0. 0. 0. 0. 0.	0. 0. 0. .313624E+01 .812461E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 4, Atomic No. = 82, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .552140E+00 0. 0.	0. 0. 0. .537220E+00 .332645E-01 0.	0. 0. 0. .506510E+00 .809662E-02 0.	0. 0. 0. .440550E+00 .682935E-02 0.	0. 0. 0. .526130E+00 .862570E-02 0.	0. 0. 0. .781800E+00 .202979E-01 0.	0. 0. 0. .111670E+01 .272031E-01 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .608390E+00 .281952E-01 0.	0. 0. 0. .721781E+00 .235385E-02 0.	0. 0. 0. .892570E+00 .115893E-01 0.	0. 0. 0. .616247E+00 .799340E-02 0.	0. 0. 0. .518502E+00 .555186E-02 0.	0. 0. 0. .429686E+00 .694266E-02 0.	0. 0. 0. .544375E+00 .594032E-02 0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .197211E+00 .783255E-02 0.	0. 0. 0. .111598E+00 .464747E-02 0.	0. 0. 0. -.273116E-02 .135066E-01 0.	0. 0. 0. -.155973E-01 .135040E-01 0.	0. 0. 0. -.164983E-01 .161314E-01 0.	0. 0. 0. -.165320E-01 .160807E-01 0.	0. 0. 0. -.164971E-01 .161899E-01 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. -.165275E-01 .160961E-01 0.	0. 0. 0. -.165135E-01 .161392E-01 0.	0. 0. 0. -.165327E-01 .161153E-01 0.	0. 0. 0. -.165414E-01 .161577E-01 0.	0. 0. 0. -.164988E-01 .161697E-01 0.	0. 0. 0. -.165431E-01 .161081E-01 0.	0. 0. 0. -.165824E-01 .162361E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. -.165207E-01 .161066E-01 0. 0. 0. 0.	0. 0. 0. .446362E-04 .160925E-01 0. 0. 0. 0.	0. 0. 0. .111298E+00 0. 0. 0. 0.	0. 0. 0. .138302E+00 .228056E+00 0. 0. 0. 0.	0. 0. 0. .176439E+00 .283692E+00 .225586E+00 0. 0. 0.	0. 0. 0. .232759E+00 .362163E+00 .279547E+00 .225714E+00 0. 0. 0.	0. 0. 0. .320879E+00 .477570E+00 .354622E+00 .279207E+00 .229209E+00 0. 0. 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .469867E+00 .656227E+00 .462331E+00 .352550E+00 .283580E+00 .236839E+00 0. 0. 0. 0.	0. 0. 0. .750718E+00 .949971E+00 .620303E+00 .453488E+00 .355698E+00 .292297E+00 .248148E+00 0. 0. 0. 0.	0. 0. 0. .137180E+01 .145759E+01 .841691E+00 .578952E+00 .438634E+00 .352585E+00 .294744E+00 .253280E+00 0. 0. 0. 0.	0. 0. 0. .306914E+01 .215904E+01 .433463E+00 .552972E+00 .179811E+00 .283863E+00 .223973E+00 .183515E+00 .154593E+00 0. 0. 0. 0.	0. 0. 0. .450151E+01 .101537E+01 .317970E+00 .340044E+00 .367267E+00 .332912E+00 .300557E+00 .272454E+00 .248495E+00 .228063E+00 0. 0. 0. 0.	0. 0. 0. .389188E+01 .794894E+00 .846982E+00 .412697E+00 .256381E+00 .161151E+00 .138178E+00 .110827E+00 .920786E-01 .785146E-01 .682920E-01 0. 0. 0. 0.	0. 0. 0. .475145E+01 .202949E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 4, Atomic No. = 82, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .235530E+00 0.	0. 0. 0. .222560E+00 .183521E-01 0.	0. 0. 0. .205920E+00 .305925E-02 0.	0. 0. 0. .174900E+00 .313966E-02 0.	0. 0. 0. .238390E+00 .514111E-02 0.	0. 0. 0. .395550E+00 .134597E-01 0.	0. 0. 0. .535330E+00 .182601E-01 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .332310E+00 .203142E-01 0.	0. 0. 0. .334491E+00 .954537E-02 0.	0. 0. 0. .331291E+00 .538470E-02 0.	0. 0. 0. .356893E+00 .654148E-02 0.	0. 0. 0. .447468E+00 .945088E-02 0.	0. 0. 0. .258776E+00 .816075E-02 0.	0. 0. 0. .348809E-01 .988439E-03 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. -.315599E-01 -.305128E-03 0.	0. 0. 0. -.968586E-02 .148151E-02 0.	0. 0. 0. -.346659E-02 .450833E-02 0.	0. 0. 0. -.531095E-02 .443189E-02 0.	0. 0. 0. -.530136E-02 .486702E-02 0.	0. 0. 0. -.533280E-02 .483157E-02 0.	0. 0. 0. -.530311E-02 .493847E-02 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. -.531471E-02 .485003E-02 0.	0. 0. 0. -.530885E-02 .487415E-02 0.	0. 0. 0. -.532056E-02 .485841E-02 0.	0. 0. 0. -.532471E-02 .489340E-02 0.	0. 0. 0. -.530503E-02 .490093E-02 0.	0. 0. 0. -.534982E-02 .486217E-02 0.	0. 0. 0. -.532087E-02 .499055E-02 0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-530716E-02	-250889E-05	.110678E+00	.137340E+00	.174866E+00	.230002E+00	.315585E+00
.479269E-02	.482654E-02	0.	.223754E+00	.276918E+00	.350841E+00	.457159E+00
0.	0.	0.	0.	.215763E+00	.263766E+00	.327603E+00
0.	0.	0.	0.	0.	.208433E+00	.250667E+00
0.	0.	0.	0.	0.	0.	.201009E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.458327E+00	.720363E+00	.126350E+01	.239401E+01	.264994E+01	.119549E+01	.375942E+00
.615506E+00	.856257E+00	.119080E+01	.112608E+01	-.686679E+00	-.983038E+00	-.353035E-01
.411973E+00	.514919E+00	.581384E+00	.142967E+00	-.943274E+00	.703794E-01	0.
.301751E+00	.353273E+00	.350134E+00	-.646232E-01	-.693767E+00	.256281E+00	0.
.234943E+00	.263363E+00	.237690E+00	-.126142E+00	-.538727E+00	.233986E+00	0.
.191007E+00	.207590E+00	.174064E+00	-.144944E+00	-.438106E+00	.201364E+00	0.
0.	.170194E+00	.134244E+00	-.144446E+00	-.368342E+00	.174055E+00	0.
0.	0.	.107485E+00	-.145762E+00	-.317372E+00	.152417E+00	0.
0.	0.	0.	-.140600E+00	-.778601E+00	.135221E+00	0.
0.	0.	0.	0.	-.248163E+00	.121350E+00	0.
0.	0.	0.	0.	0.	.109976E+00	0.
0.	0.	0.	0.	0.	0.	0.



GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
.208210E+03	.601100E+03	.150980E+02	.141143E+02	.130406E+02	.118494E+02	.105178E+02
.412591E+03	.124320E+04	0.	0.	0.	0.	0.
.22368E+03	.61892E+03	.199690E+02	.19394E+02	.188106E+02	.182290E+02	.17674E+02
.15310E+02	.17825E+02	.125570E+00	.156253E+00	.199733E+00	.264266E+00	.366026E+00
.121114E+00	.14750E+00	0.	.260742E+00	.325997E+00	.419270E+00	.559299E+00
0.	0.	0.	0.	.264370E+00	.331861E+00	.429414E+00
0.	0.	0.	0.	.146050E+01	.273399E+00	.346972E+00
0.	0.	0.	0.	.484692E+00	.668020E+01	.290817E+00
0.	0.	0.	0.	.203553E+00	.223080E+01	.207518E+02
0.	0.	0.	0.	.611185E-01	.867510E+00	.771654E+01
0.	0.	0.	0.	.607090E-01	.338850E+00	.265923E+01
0.	0.	0.	0.	.148008E+00	.637570E+00	.146835E+02
0.	0.	0.	0.	.112194E+00	.986720E+00	.383780E+01
0.	0.	0.	0.	.740886E-01	.650400E+00	.493360E+01
0.	0.	0.	0.	.486000E-01	.436639E+00	.292680E+01
0.	0.	0.	0.	.308000E-01	.271000E+00	.199861E+01
0.	0.	0.	0.	.182000E-01	.169000E+00	.117000E+01
0.	0.	0.	0.	.114000E-01	.970000E-01	.726000E+00
0.	0.	0.	0.	.810000E-02	.594000E-01	.403000E+00
0.	0.	0.	0.	.600000E-02	.425000E-01	.240000E+00
0.	0.	0.	0.	.471000E-02	.313000E-01	.173000E+00
0.	0.	0.	0.	.390000E-02	.237000E-01	.124000E+00
0.	0.	0.	0.	.366000E-02	.188000E-01	.865000E-01
0.	0.	0.	0.	.353000E-02	.149000E-01	.606000E-01
0.	0.	0.	0.	.187000E-01	.163000E-01	.504000E-01
0.	0.	0.	0.	.281000E-01	.235000E-01	.460000E-01
0.	0.	0.	0.	.984000E-02	.278000E-01	.378000E-01
0.	0.	0.	0.	.302000E-02	.148000E-01	.342000E-01
0.	0.	0.	0.	.209000E-02	.948000E-02	.289000E-01
0.	0.	0.	0.	.163000E-02	.881000E-02	.258000E-01
0.	0.	0.	0.	.541000E-02	.210000E-01	.249000E-01
0.	0.	0.	0.	.543000E-02	.569000E-01	.296000E-01
0.	0.	0.	0.	.518000E-02	.187000E-01	.455000E-01
0.	0.	0.	0.	.495000E-02	.184000E-01	.468000E-01
0.	0.	0.	0.	.444000E-02	.181000E-01	.482000E-01
0.	0.	0.	0.	.445000E-02	.166000E-01	.492000E-01
0.	0.	0.	0.	0.	.172000E-01	.463000E-01
0.	0.	0.	0.	0.	0.	.501000E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.902390E+01	.737745E+01	.577396E+01	.622914E+01	.223510E+02	.302293E+03	.102125E+05
0.	0.	0.	0.	0.	0.	0.
.172134E+02	.170215E+02	.176608E+02	.222234E+02	.448561E+02	.335864E+02	.102638E+05
.540362E+00	.877394E+00	.166837E+01	.166837E+01	.816232E+01	.310667E+03	.512941E+02
.783663E+00	.117739E+01	.197030E+01	.401419E+01	.756634E+01	.143428E+02	.250437E+01
.578521E+00	.825179E+00	.128771E+01	.281060E+01	.104000E+02	.587226E+01	0.
.456861E+00	.634519E+00	.962350E+00	.176748E+01	.144641E+02	.331178E+01	0.
.377624E+00	.516925E+00	.773995E+00	.141333E+01	.180445E+02	.232469E+01	0.
.322331E+00	.437549E+00	.650905E+00	.118644E+01	.211472E+02	.179307E+01	0.
.378460E+02	.380378E+00	.563728E+00	.102560E+01	.238598E+02	.145987E+01	0.
.135876E+02	.102870E+03	.498424E+00	.905164E+00	.262627E+02	.123120E+01	0.
.501228E+01	.366854E+02	.279400E+03	.810948E+00	.284210E+02	.106455E+01	0.
.229685E+01	.136477E+02	.985608E+02	.883920E+03	.303854E+02	.937658E+00	0.
.419963E+01	.603655E+01	.374220E+02	.304200E+03	.125476E+04	.837810E+00	0.
.723301E+01	.131228E+02	.158130E+02	.120204E+03	.419796E+03	.128778E+04	0.
.451219E+01	.186772E+02	.325544E+02	.444270E+02	.174089E+03	.431964E+03	.122682E+03
.305420E+01	.117888E+01	.476621E+02	.771274E+02	.552200E+02	.178605E+03	.422838E+02
.118400E+01	.796896E+01	.305888E+02	.125102E+03	.718080E+02	.568515E+02	.167265E+02
.115000E+01	.483000E+01	.206220E+02	.845520E+02	.140074E+03	.742800E+02	.1619970E+01
.645000E+00	.301000E+01	.128000E+02	.56888E+02	.182436E+03	.144484E+03	.108820E+02
.389000E+00	.170000E+01	.787000E+01	.354000E+02	.674782E+02	.105690E+03	.175319E+02
.279000E+00	.103000E+01	.447000E+01	.222000E+02	.434000E+02	.700150E+02	.117885E+02
.201000E+00	.737000E+00	.272000E+01	.128000E+02	.278000E+02	.452000E+02	.791806E+01
.143000E+00	.530000E+00	.194000E+01	.789000E+01	.163000E+02	.286000E+02	.495000E+01
.165000E+00	.376000E+00	.139000E+01	.561000E+01	.102000E+02	.167000E+02	.311000E+01
.499000E+01	.276000E+00	.993000E+00	.406000E+01	.721000E+01	.105000E+02	.179000E+01
.820000E+01	.235000E+00	.735000E+00	.297000E+01	.526000E+01	.741000E+01	.110000E+01
.773000E+01	.214000E+00	.628000E+00	.229000E+01	.398000E+01	.541000E+01	.787000E+00
.487000E+01	.203000E+00	.569000E+00	.201000E+01	.324000E+01	.410000E+01	.809000E+00
.768000E+01	.231000E+00	.549000E+00	.185000E+01	.291000E+01	.337000E+01	.918000E+00
.718000E+01	.219000E+00	.663000E+00	.180000E+01	.279000E+01	.336000E+01	.132000E+01
.705000E+01	.212000E+00	.671000E+00	.237000E+01	.303000E+01	.370000E+01	.163000E+01
.851000E+01	.219000E+00	.791000E+00	.269000E+01	.394000E+01	.405000E+01	.196000E+01
.119000E+00	.282000E+00	.978000E+00	.297000E+01	.440000E+01	.522000E+01	.144000E+01
.123000E+00	.355000E+00	.126000E+01	.318000E+01	.444000E+01	.522000E+01	.118000E+01
.131000E+00	.349000E+00	.130000E+01	.354000E+01	.432000E+01	.506000E+01	.982000E+00
.138000E+00	.385000E+00	.189000E+01	.414000E+01	.459000E+01	.484000E+01	.895000E+00
.132000E+00	.418000E+00	.125000E+01	.428000E+01	.622000E+01	.507000E+01	.882000E+00
.147000E+00	.407000E+00	.139000E+01	.457000E+01	.719000E+01	.648000E+01	.883000E+00
0.	.455000E+00	.137000E+01	.481000E+01	.748000E+01	.736000E+01	.988000E+00
0.	0.	.149000E+01	.461000E+01	.768000E+01	.776000E+01	.117000E+01
0.	0.	0.	0.	.726000E+01	.792000E+01	.622000E+01
0.	0.	0.	0.	.815000E+01	.745000E+01	.125000E+01
0.	0.	0.	0.	0.	.833000E+01	.119000E+01
0.	0.	0.	0.	0.	0.	.134000E+01

Neutron ID = 1, Atomic No. = 92, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .981168E+00 0. 0.	0. 0. 0. .936740E+00 .195686E-01 0.	0. 0. 0. .899208E+00 .308311E+02 0.	0. 0. 0. .852650E+00 .462767E-02 0.	0. 0. 0. .911580E+00 .339161E-02 0.	0. 0. 0. .977470E+00 .338674E-02 0.	0. 0. 0. .113874E+01 .123778E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .126254E+01 -.451135E-02 0.	0. 0. 0. .120859E+01 -.143348E-01 0.	0. 0. 0. .116589E+01 -.123790E-01 0.	0. 0. 0. .114575E+01 -.131931E-01 0.	0. 0. 0. .145542E+01 .463432E-02 0.	0. 0. 0. .172256E+01 -.483371E-02 0.	0. 0. 0. .168445E+01 -.799882E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .129185E+01 -.159411E-01 0.	0. 0. 0. .387736E+00 -.217061E-01 0.	0. 0. 0. .388701E-01 -.120614E-01 0.	0. 0. 0. .419649E-01 -.115629E-01 0.	0. 0. 0. .462825E-01 -.128167E-01 0.	0. 0. 0. .498378E-01 -.141723E-01 0.	0. 0. 0. .539531E-01 -.160935E-01 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .822898E-01 -.237258E-01 0.	0. 0. 0. .606167E-01 -.483729E-01 0.	0. 0. 0. .545072E-01 -.288559E-01 0.	0. 0. 0. .586109E-01 -.284034E-01 0.	0. 0. 0. .933828E-01 -.309501E-01 0.	0. 0. 0. .765955E-01 -.501383E-01 0.	0. 0. 0. .767516E-01 -.373143E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .892681E-01 -.482598E-01 0.	0. 0. 0. .467875E-01 -.490314E-01 0.	0. 0. 0. .125337E+00 0. 0.	0. 0. 0. .155891E+00 .259111E+00 0.	0. 0. 0. .199140E+00 .323416E+00 .260584E+00	0. 0. 0. .263222E+00 .414930E+00 .325725E+00 .286592E+00	0. 0. 0. .364012E+00 .551403E+00 .418760E+00 .335538E+00 .279369E+00
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .535936E+00 .787667E+00 .558209E+00 .435978E+00 .35743E+00 .302864E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .865560E+00 .113947E+01 .780839E+00 .591070E+00 .475976E+00 .399309E+00 .344684E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .162438E+01 .185450E+01 .116719E+01 .851386E+00 .873243E+00 .559129E+00 .479600E+00 .428811E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .403575E+01 .342891E+01 .189418E+01 .132477E+01 .102825E+01 .844688E+00 .718900E+00 .628837E+00 .556292E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .498797E+01 .380917E+01 .138434E+01 .849579E+00 .613033E+00 .479063E+00 .392833E+00 .332723E+00 .288455E+00 .254514E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .815900E+01 .381847E+00 -.152664E+01 -.115411E+01 -.884997E+00 -.713491E+00 -.596658E+00 -.512357E+00 -.448782E+00 -.399173E+00 -.359402E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .351871E+01 -.911542E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 1, Atomic No. = 92, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .558570E+00 0. 0.	0. 0. 0. .525430E+00 -.133982E-02 0.	0. 0. 0. .585030E+00 -.496719E-03 0.	0. 0. 0. .478500E+00 .114671E-03 0.	0. 0. 0. .512560E+00 -.454028E-03 0.	0. 0. 0. .584450E+00 -.497841E-03 0.	0. 0. 0. .734830E+00 .138802E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .829800E+00 .355950E-02 0.	0. 0. 0. .710428E+00 .159118E-02 0.	0. 0. 0. .566927E+00 -.413713E-02 0.	0. 0. 0. .481701E+00 -.923044E-02 0.	0. 0. 0. .677663E+00 -.984071E-02 0.	0. 0. 0. .756280E+00 -.294358E-02 0.	0. 0. 0. .823185E+00 -.128491E-02 0.



GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.264810E+00	.397140E-03	-.165443E-02	-.177803E-02	-.182979E-02	-.205521E-02	-.182004E-02
-.203616E-02	-.446057E-02	-.283812E-04	-.294275E-04	-.322125E-04	-.376360E-04	-.391575E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.208890E-02	-.190353E-02	-.155394E-02	-.164470E-02	-.256736E-02	-.227639E-02	-.217109E-02
-.489239E-04	-.953179E-04	-.572493E-04	-.540254E-04	-.585160E-04	-.940886E-04	-.130709E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.238343E-02	-.287239E-02	.124871E+00	.155168E+00	.197956E+00	.261144E+00	.360010E+00
-.763477E-04	-.910856E-04	0.	.255867E+00	.318289E+00	.406330E+00	.535811E+00
0.	0.	0.	0.	.253096E+00	.313632E+00	.397869E+00
0.	0.	0.	0.	0.	.253240E+00	.313251E+00
0.	0.	0.	0.	0.	0.	.257162E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.527168E+00	.842260E+00	.153904E+01	.344343E+01	.505048E+01	.436650E+01	.533089E+01
.736255E+00	.104582E+01	.163534E+01	.242233E+01	.113919E+01	-.891833E+00	.227699E+00
.518712E+00	.695950E+00	.944330E+00	.104730E+01	-.356747E+00	-.950772E+00	0.
.395344E+00	.508791E+00	.649555E+00	.628408E+00	-.437666E+00	-.463025E+00	0.
.318163E+00	.399066E+00	.492125E+00	.426141E+00	-.417056E+00	-.287647E+00	0.
.265722E+00	.327943E+00	.395583E+00	.318480E+00	-.373511E+00	-.203247E+00	0.
0.	.278410E+00	.330689E+00	.251287E+00	-.337211E+00	-.155029E+00	0.
0.	0.	.284167E+00	.205845E+00	-.305686E+00	-.124343E+00	0.
0.	0.	0.	.173446E+00	-.278800E+00	-.103308E+00	0.
0.	0.	0.	0.	-.255876E+00	-.880996E-01	0.
0.	0.	0.	0.	0.	-.766203E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 1, Atomic No. = 92, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.202070E+00	.769040E+00	.259820E+00	.247740E+00	.266960E+00	.300880E+00	.299020E+00
0.	.692094E-02	.314865E-02	.344044E-02	.185503E-02	.236215E-02	.157194E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.395420E+00	.433430E+00	.458887E+00	.493211E+00	.496554E+00	.324543E+00	.867326E-01
.782758E-04	.364585E-02	.705079E-02	.107319E-01	.103546E-01	.221597E-02	-.196654E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.403510E-03	-.197939E-02	-.245227E-02	-.263627E-02	-.271904E-02	-.304981E-02	-.271986E-02
-.289591E-02	-.334634E-04	-.754558E-05	-.559922E-05	-.421323E-05	-.789084E-05	.782356E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.307028E-02	-.285284E-02	-.233874E-02	-.247714E-02	-.387047E-02	-.351797E-02	-.326873E-02
-.116828E-04	-.211050E-05	-.142471E-04	-.140630E-04	-.153299E-04	-.248460E-04	-.963157E-05
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.359819E-02	-.421791E-02	.124175E+00	.154084E+00	.196191E+00	.258051E+00	.354071E+00
-.199372E-04	-.243131E-04	0.	.251046E+00	.310689E+00	.393626E+00	.512911E+00
0.	0.	0.	0.	.242076E+00	.295933E+00	.367555E+00
0.	0.	0.	0.	0.	.233852E+00	.281236E+00
0.	0.	0.	0.	0.	0.	.225523E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.514221E+00	.808213E+00	.141767E+01	.268596E+01	.297310E+01	.134128E+01	+.21789E+00
.690567E+00	.960679E+00	.133602E+01	.126340E+01	-.770420E+00	-.110292E+01	-.396088E-01
.462214E+00	.577714E+00	.652284E+00	.1604 1E+00	-.105831E+01	.789624E-01	0.
.338549E+00	.396355E+00	.392833E+00	-.725041E-01	-.778373E+00	.287535E+00	0.
.263594E+00	.295481E+00	.266677E+00	-.141528E+00	-.604426E+00	.262521E+00	0.
.214300E+00	.232906E+00	.195291E+00	-.162676E+00	-.491533E+00	.225994E+00	0.
0.	.190949E+00	.150616E+00	-.166549E+00	-.413262E+00	.195281E+00	0.
0.	0.	.120593E+00	-.163538E+00	-.356076E+00	.171005E+00	0.
0.	0.	0.	-.157746E+00	-.312577E+00	.151711E+00	0.
0.	0.	0.	0.	-.278426E+00	.136149E+00	0.
0.	0.	0.	0.	0.	.123388E+00	0.
0.	0.	0.	0.	0.	0.	0.





Neutron ID = 2, Atomic No. = 92, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.899990E+00	.912250E+00	.901330E+00	.890400E+00	.914230E+00	.101236E+01	.130431E+01
0.	.155963E-01	.453823E-02	.469422E-02	.355659E-00	.370071E-02	.361264E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.151616E+01	.146313E+01	.140111E+01	.140302E+01	.168519E+01	.204452E+01	.196930E+01
.106595E-02	-.180034E-02	-.221600E-02	-.986953E-03	-.161943E-02	-.440183E-02	-.102911E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.148806E+01	.442586E+00	.458249E-01	.441257E-01	.571860E-01	.579588E-01	.456331E-01
.175885E-01	-.254322E-01	-.149330E-01	-.137123E-01	-.903297E-02	-.210545E-01	-.221709E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.439849E-01	.327995E-01	.281286E-01	.272845E-01	.278451E-01	.280450E-01	.279889E-01
.155542E-01	-.144471E-01	-.118199E-01	-.108491E-01	-.108355E-01	-.108636E-01	-.109335E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.279451E-01	.171194E-01	.125337E+00	.155841E+00	.199140E+00	.263222E+00	.364012E+00
-.107976E-01	-.108338E-01	0.	.259111E+00	.323418E+00	.414930E+00	.551403E+00
0.	0.	0.	0.	.260584E+00	.325725E+00	.418760E+00
0.	0.	0.	0.	0.	.266592E+00	.335538E+00
0.	0.	0.	0.	0.	0.	.279369E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.535936E+00	.865560E+00	.162438E+01	.403575E+01	.698797E+01	.815900E+01	.351871E+01
.747667E+00	.117947E+01	.185450E+01	.342891E+01	.380917E+01	.381847E+00	-.911542E+00
.558209E+00	.780839E+00	.116719E+01	.149418E+01	.138334E+01	-.152664E+01	0.
.435928E+00	.591070E+00	.851380E+00	.132477E+01	.449579E+00	-.115411E+01	0.
.357243E+00	.475976E+00	.673243E+00	.102825E+01	.613033E+00	-.884997E+00	0.
.302864E+00	.399309E+00	.559129E+00	.844688E+00	.479063E+00	-.713491F+00	0.
0.	.344684E+00	.479600E+00	.718900E+00	.392833E+00	-.596658E+00	0.
0.	0.	.420811E+00	.626837E+00	.332723E+00	-.512357E+00	0.
0.	0.	0.	.556242E+00	.288455E+00	-.448787E+00	0.
0.	0.	0.	0.	.254514E+00	-.399173E+00	0.
0.	0.	0.	0.	0.	-.359402E+00	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 2, Atomic No. = 92, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.506200E+00	.506970E+00	.502800E+00	.497440E+00	.514020E+00	.570490E+00	.772010E+00
0.	-.241194E-02	.697436E-03	-.694551E-03	-.475530E-03	-.537799E-03	-.106145E-03
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.910870E+00	.879920E+00	.716575E+00	.641747E+00	.764280E+00	.936862E+00	.687158E+00
.338551E-02	.421558E-02	.619693E-03	-.479494E-02	-.630143E-00	-.348905E-02	-.762791E-03
0.	0.	0.	0.	0.	0.	0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. n. .116662E+00 -.472867E-02 0.	0. 0. n. .368620E-03 -.901711E-02 0.	0. 0. n. -.198866E-02 -.336085E-04 0.	0. 0. n. -.218649E-02 -.347864E-04 0.	0. 0. n. -.222472E-02 -.292883E-04 0.	0. 0. n. -.220089E-02 -.473926E-04 0.	0. 0. n. -.185667E-02 -.448683E-04 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. n. n. -.182911E-02 -.365570E-04 0.	0. 0. n. -.129284E-02 -.346864E-04 0.	0. 0. n. -.107536E-02 -.269217E-04 0.	0. 0. n. -.102316E-02 -.236049E-04 0.	0. 0. n. -.104337E-02 -.232053E-04 0.	0. 0. n. -.105158E-02 -.236917E-04 0.	0. 0. n. -.105188E-02 -.238536E-04 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. n. n. -.105180E-02 -.236543E-04 n. n. n. 0.	0. 0. n. -.107544E-02 -.237074E-04 0.	0. 0. n. .124871E+00 0.	0. 0. n. .155188E+00 .255867E+00 0.	0. 0. n. .197956E+00 .318284E+00 .253096E+00 0.	0. 0. n. .261144E+00 .406330E+00 .313637E+00 .253240E+00 0.	0. 0. n. .360010E+00 .535911E+00 .397849E+00 .313251E+00 .257162E+00 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
n. n. n. .527168E+00 .736255E+00 .518717E+00 .395444E+00 .318163E+00 .265722E+00 n. n. n. n. n.	0. 0. n. .842260E+00 .106582E+01 .695950E+00 .508791E+00 .399066E+00 .327943E+00 .278410E+00 0. 0. 0. 0. 0.	0. 0. n. .153909E+01 .163534E+01 .944336E+00 .649555E+00 .492125E+00 .395583E+00 .330684E+00 .284167E+00 0. 0. 0. 0. 0.	0. 0. n. .344343E+01 .242234E+01 .104730E+01 .6204 ME+00 .426141E+00 .318480E+00 .251281E+00 .205845E+00 .173446E+00 0. 0. 0. 0. 0.	0. 0. n. .505048E+01 .113919E+01 -.350747E+00 -.437668E+00 -.412056E+00 -.373511E+00 -.337211E+00 -.305886E+00 -.274800E+00 -.255876E+00 0. 0. 0. 0. 0.	0. 0. n. .436650E+01 -.891833E+00 -.950277E+00 -.463025E+00 -.287647E+00 -.203242E+00 -.155029E+00 -.124343E+00 -.103308E+00 -.880894E-01 -.766203E-01 n. 0.	0. 0. n. .533089E+01 .227699E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 2, Atomic No. = 92, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
n. n. n. .261580E+00 0.	0. 0. n. .265720E+00 .755086E-02 0.	0. 0. n. .263720E+00 .633438E-02 0.	0. 0. n. .261520E+00 .281811E-02 0.	0. 0. n. .269520E+00 .216392E-02 0.	0. 0. n. .290420E+00 .246809E-02 0.	0. 0. n. .280010E+00 .147418E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
n. n. n. .344870E+00 -.185294E-02 n.	0. 0. n. .358950E+00 -.152142E-02 0.	0. 0. n. .365875E+00 .712127E-03 0.	0. 0. n. .387507E+00 .368972E-02 0.	0. 0. n. .491252E+00 .483490E-02 0.	0. 0. n. .404322E+00 .245022E-02 0.	0. 0. n. .428422E-01 -.248168E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. n. n. -.882440E-03 -.234059E-02 0.	0. n. n. -.233648E-02 -.263867E-04 0.	0. 0. n. -.294501E-02 -.898608E-05 0.	0. 0. n. -.322548E-02 -.663869E-05 0.	0. 0. n. -.330595E-02 -.426676E-05 0.	0. 0. n. -.327320E-02 -.102960E-04 0.	0. 0. n. -.275501E-02 -.108571E-04 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. n. -.270651E-02 -.577889E-05 0.	0. 0. n. -.192034E-02 -.782723E-05 0.	0. 0. n. -.159893E-02 -.577367E-05 0.	0. 0. n. -.152242E-02 -.521263E-05 0.	0. 0. n. -.155271E-02 -.521216E-05 0.	0. 0. n. -.156460E-02 -.532414E-05 0.	0. 0. n. -.156477E-02 -.535823E-05 0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-156472E-02	-157793E-02	.124175E+00	.154049E+00	.196191E+00	.258051E+00	.354071E+00
-520990E-05	-530017E-05	0.	.251046E+00	.310689E+00	.393676E+00	.512911E+00
0.	0.	0.	0.	.242076E+00	.295933E+00	.367555E+00
0.	0.	0.	0.	0.	.233852E+00	.281236E+00
0.	0.	0.	0.	0.	0.	.225523E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.514221E+00	.808213E+00	.141767E+01	.268546E+01	.297310E+01	.134129E+01	.421789E+00
.690567E+00	.960679E+00	.133602E+01	.126340E+01	-.770420E+00	-.110292E+01	-.396089E+01
.442214E+00	.577714E+00	.652284E+00	.160401E+00	-.105831E+01	.789624E-01	0.
.338549E+00	.396355E+00	.392833E+00	-.725041E-01	-.778373E+00	.287535E+00	0.
.263594E+00	.295481E+00	.266677E+00	-.141526E+00	-.604426E+00	.262521E+00	0.
.714300E+00	.732906E+00	.195291E+00	-.162676E+00	-.491533E+00	.225925E+00	0.
0.	.190949E+00	.150616E+00	-.166544E+00	-.413262E+00	.195291E+00	0.
0.	0.	.120593E+00	-.163549E+00	-.356076E+00	.171005E+00	0.
0.	0.	0.	-.157746E+00	-.312577E+00	.151711E+00	0.
0.	0.	0.	0.	-.278426E+00	.136149E+00	0.
0.	0.	0.	0.	0.	.123399E+00	0.
0.	0.	0.	0.	0.	0.	0.







Neutron ID = 3, Atomic No. = 94, Table 2

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .899140E+00 0. 0.	0. 0. 0. .897870E+00 .143405E-01 0.	0. 0. 0. .891760E+00 .331295E-02 0.	0. 0. 0. .897600E+00 .444924E-02 0.	0. 0. 0. .997890E+00 .362670E-02 0.	0. 0. 0. .110117E+01 .398731E-02 0.	0. 0. 0. .111616E+01 -.125020E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .115193E+01 -.547010E-02 0.	0. 0. 0. .109310E+01 -.124796E-01 0.	0. 0. 0. .107248E+01 -.108286E-01 0.	0. 0. 0. .112284E+01 -.119384E-01 0.	0. 0. 0. .158556E+01 -.93941E-02 0.	0. 0. 0. .190131E+01 -.479656E-02 0.	0. 0. 0. .180510E+01 -.832222E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .135950E+01 -.161662E-01 0.	0. 0. 0. .398205E+00 -.230438E-01 0.	0. 0. 0. .488393E-01 -.130235E-01 0.	0. 0. 0. .409740E+01 -.134441E-01 0.	0. 0. 0. .514573E-01 -.104411E-01 0.	0. 0. 0. .565723E-01 -.198752E-01 0.	0. 0. 0. .686256E-01 -.224898E-01 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. .658907E-01 -.742137E-01 0.	0. 0. 0. .113470E+00 -.263431E-01 0.	0. 0. 0. .153511E+00 -.654476E-01 0.	0. 0. 0. .943268E-01 -.809406E-01 0.	0. 0. 0. .444944E-01 -.216760E-01 0.	0. 0. 0. .426853E-01 -.162012E-01 0.	0. 0. 0. .411138E-01 -.167598E-01 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. .309396E-01 -.126888E-01 0. 0. 0. 0. 0.	0. 0. 0. .235653E-01 -.124110E-01 0. 0. 0. 0. 0.	0. 0. 0. .128062E+00 0. 0. 0. 0. 0.	0. 0. 0. .159280E+00 .264744E+00 0. 0. 0. 0. 0.	0. 0. 0. .203469E+00 .330446E+00 .266240E+00 0. 0. 0. 0. 0.	0. 0. 0. .268944E+00 .423950E+00 .332806E+00 .272388E+00 0. 0. 0. 0. 0.	0. 0. 0. .371925E+00 .563390E+00 .427863E+00 .342933E+00 .285442E+00 0. 0. 0. 0. 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .547587E+00 .784355E+00 .570344E+00 .445405E+00 .365009E+00 .309440E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .884377E+00 .116424E+01 .797814E+00 .603920E+00 .686324E+00 .407989E+00 .352178E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .165969E+01 .189482E+01 .119256E+01 .869895E+00 .687879E+00 .571284E+00 .490226E+00 .429459E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .412348E+01 .350346E+01 .193576E+01 .135357E+01 .105081E+01 .863050E+00 .734528E+00 .640464E+00 .568386E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .713988E+01 .389198E+01 .141341E+01 .868048E+00 .628359E+00 .489477E+00 .411373E+00 .334956E+00 .294726E+00 .260047E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .833637E+01 .390148E+00 -.155983E+01 -.117920E+01 -.904236E+00 -.72902E+00 -.609629E+00 -.523495E+00 -.458539E+00 -.407450E+00 -.367215E+00 0. 0. 0. 0. 0. 0. 0.	0. 0. 0. .359520E+01 -.931358E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 3, Atomic No. = 94, Table 3

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .511450E+00 0.	0. 0. 0. .503930E+00 -.110401E-02 0.	0. 0. 0. .500780E+00 -.102420E-02 0.	0. 0. 0. .503770E+00 -.390213E-03 0.	0. 0. 0. .560980E+00 -.371662E-03 0.	0. 0. 0. .658690E+00 -.445245E-03 0.	0. 0. 0. .718910E+00 -.165193E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .749620E+00 .305103E-02 0.	0. 0. 0. .642990E+00 .147155E-02 0.	0. 0. 0. .521534E+00 -.359179E-02 0.	0. 0. 0. .471973E+00 -.833040E-02 0.	0. 0. 0. .738149E+00 -.957600E-02 0.	0. 0. 0. .835440E+00 -.291681E-02 0.	0. 0. 0. .669183E+00 -.132078E-02 0.

GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .277306E+08 -.205442E-02 0.	0. 0. 0. .345470E-03 -.474433E-02 0.	0. 0. 0. -.170091E-02 -.298727E-04 0.	0. 0. 0. -.190447E-02 -.320745E-04 0.	0. 0. 0. -.197634E-02 -.292960E-04 0.	0. 0. 0. -.210324E-02 -.437245E-04 0.	0. 0. 0. -.224657E-02 -.483491E-04 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. -.244001E-02 -.520597E-04 0.	0. 0. 0. -.279097E-02 -.565194E-04 0.	0. 0. 0. -.527458E-02 -.356437E-03 0.	0. 0. 0. -.451132E-02 -.951122E-03 0.	0. 0. 0. -.175152E-02 -.307398E-03 0.	0. 0. 0. -.160068E-02 -.366001E-04 0.	0. 0. 0. -.176764E-02 -.362515E-04 0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0. 0. 0. -.114300E-02 -.315438E-04 0. 0. 0. 0. 0.	0. 0. 0. -.148102E-02 -.265954E-04 0. 0. 0. 0. 0.	0. 0. 0. .127586E+08 0. 0. 0. 0. 0.	0. 0. 0. .158541E+08 .261430E+08 0. 0. 0. 0. 0.	0. 0. 0. .202260E+08 .325208E+08 .258598E+08 0. 0. 0. 0. 0.	0. 0. 0. .266821E+08 .415161E+08 .320450E+08 .258745E+08 0. 0. 0. 0. 0.	0. 0. 0. .367837E+08 .547459E+08 .406518E+08 .320061E+08 .262752E+08 0. 0. 0. 0. 0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0. 0. 0. .538428E+00 .752261E+00 .529949E+00 .404143E+00 .325080E+00 .271498E+00 0. 0. 0. 0. 0.	0. 0. 0. .860570E+00 .108899E+01 .711074E+00 .519852E+00 .407742E+00 .334072E+00 .284462E+00 0. 0. 0. 0. 0.	0. 0. 0. .157255E+01 .147049E+01 .964845E+00 .663676E+00 .507824E+00 .404182E+00 .337878E+00 .290345E+00 0. 0. 0. 0. 0.	0. 0. 0. .351829E+01 .247499E+01 .107007E+01 .633845E+00 .435405E+00 .325403E+00 .256750E+00 .210371E+00 .177216E+00 0. 0. 0. 0. 0.	0. 0. 0. .510027E+01 .116346E+01 -.364502E+00 -.447181E+00 -.421014E+00 -.311631E+00 -.344541E+00 -.312331E+00 -.284811E+00 -.261438E+00 0. 0. 0. 0. 0.	0. 0. 0. .446142E+01 -.911220E+00 -.970930E+00 -.473091E+00 -.293900E+00 -.207661E+00 -.158399E+00 -.127046E+00 -.105553E+00 -.900044E-01 -.782860E-01 0. 0. 0. 0. 0.	0. 0. 0. .544678E+01 .232649E+00 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.

Neutron ID = 3, Atomic No. = 94, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0. 0. 0. .258510E+08 0.	0. 0. 0. .257900E+08 .656018E-02 0.	0. 0. 0. .257670E+08 .208352E-02 0.	0. 0. 0. .260804E+08 .256978E-02 0.	0. 0. 0. .292070E+08 .213571E-02 0.	0. 0. 0. .338180E+08 .301263E-02 0.	0. 0. 0. .292530E+08 .195961E-02 0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0. 0. 0. .360530E+08 .310801E-04 0.	0. 0. 0. .342120E+08 .329888E-02 0.	0. 0. 0. .422304E+08 .625727E-02 0.	0. 0. 0. .483343E+08 .978143E-02 0.	0. 0. 0. .543885E+08 .101164E-01 0.	0. 0. 0. .359913E+08 .220451E-02 0.	0. 0. 0. .939632E+01 -.203569E-02 0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0. 0. 0. .352720E-03 -.294656E-02 0.	0. 0. 0. -.207311E-02 -.958200E-05 0.	0. 0. 0. -.252120E-02 -.810939E-05 0.	0. 0. 0. -.281345E-02 -.663041E-05 0.	0. 0. 0. -.293810E-02 -.507173E-05 0.	0. 0. 0. -.312926E-02 -.977230E-05 0.	0. 0. 0. -.334304E-02 -.111193E-04 0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0. 0. 0. -.363084E-02 -.119084E-04 0.	0. 0. 0. -.471134E-02 -.129719E-04 0.	0. 0. 0. -.576593E-02 .167563E-03 0.	0. 0. 0. -.703137E-02 -.654654E-03 0.	0. 0. 0. -.260102E-02 -.104616E-04 0.	0. 0. 0. -.238075E-02 -.792238E-05 0.	0. 0. 0. -.261771E-02 -.831137E-05 0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.170093E-02	-.217251E-02	.126074E+00	.157439E+00	.200456E+00	.263661E+00	.361768E+00
-.622334E-05	-.615860E-05	0.	.254504E+00	.317443E+00	.402103E+00	.524061E+00
0.	0.	0.	0.	.247338E+00	.302366E+00	.375545E+00
0.	0.	0.	0.	0.	.238935E+00	.287349E+00
0.	0.	0.	0.	0.	0.	.230425E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.525399E+00	.825782E+00	.144849E+01	.274435E+01	.303773E+01	.137044E+01	.430958E+00
.705580E+00	.981563E+00	.136507E+01	.129007E+01	-.787168E+00	-.112690E+01	-.404699E-01
.472262E+00	.590273E+00	.666465E+00	.163808E+00	-.108131E+01	.806790E-01	0.
.345909E+00	.404971E+00	.401373E+00	-.740803E-01	-.795294E+00	.293784E+00	0.
.269325E+00	.301904E+00	.272474E+00	-.144602E+00	-.617505E+00	.264272E+00	0.
.218959E+00	.237969E+00	.199537E+00	-.166212E+00	-.502219E+00	.230837E+00	0.
0.	.195100E+00	.153890E+00	-.170170E+00	-.422246E+00	.199527E+00	0.
0.	0.	.123215E+00	-.167094E+00	-.363817E+00	.174772E+00	0.
0.	0.	0.	-.161176E+00	-.314372E+00	.155009E+00	0.
0.	0.	0.	0.	-.284479E+00	.139109E+00	0.
0.	0.	0.	0.	0.	.126070E+00	0.
0.	0.	0.	0.	0.	0.	0.

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Neutron ID = 4, Atomic No. = 94, Table 1

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
.917242E+00	.105937E+01	.112074E+01	.112161E+01	.119047E+01	.132026E+01	.156610E+01
.101302E+02	.961253E+01	.923761E+01	.849410E+01	.776776E+01	.666082E+01	.553394E+01
.427979E+01	.419714E+01	.420404E+01	.424267E+01	.464792E+01	.555850E+01	.590089E+01
.140519E+01	.145812E+01	.146453E+01	.149486E+01	.175026E+01	.218869E+01	.255142E+01
0.	.798914E-01	.268010E-01	.272504E-01	.231545E-01	.384979E-01	.529819E-01
0.	0.	0.	0.	.875614E-06	.313078E-04	.449627E-02
0.	0.	0.	0.	.909345E-06	.310816E-04	.409942E-02
0.	0.	0.	0.	.103248E-09	.322805E-04	.406979E-02
0.	0.	0.	0.	0.	.366673E-01	.422677E-02
0.	0.	0.	0.	0.	0.	.480118E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
.171024E+01	.172905E+01	.173764E+01	.170076E+01	.144802E+01	.892927E+00	.412027E+00
.568575E+01	.561195E+01	.551881E+07	.529672E+01	.498840E+01	.242022E+01	.729322E+00
.642859E+01	.660154E+01	.672734E+01	.682882E+01	.640800E+01	.645444E+01	.729772E+01
.292412E+01	.308367E+01	.320684E+01	.345586E+01	.423335E+01	.534924E+01	.659725E+01
.499170E+01	.970327E-01	.125490E+00	.178313E+00	.415245E+00	.223566E+00	.101248E+00
.186346E-01	.297873E-01	.555959E-01	.100244E+00	.358974E+00	.459039E+00	.246040E+00
.177189E-01	.551448E-01	.729681E-01	.111313E+00	.364445E+00	.463407E+00	.383070E+00
.161550E-01	.512385E-01	.116475E+00	.132465E+00	.384404E+00	.455752E+00	.372931E+00
.160382E+01	.487167E-01	.106220E+00	.187762E+00	.411161E+00	.450381E+00	.356366E+00
.166549E-01	.463784E-01	.468446E-01	.168643E+00	.509870E+00	.440011E+00	.346581E+00
.189205E-01	.481674E-01	.961447E-01	.153864E+00	.450757E+00	.486198E+00	.314695E+00
0.	.547132E-01	.998533E-01	.152642E+00	.410607E+00	.423147E+00	.323124E+00
0.	0.	.113423E+00	.158542E+00	.407640E+00	.385749E+00	.278584E+00
0.	0.	0.	.180133E+00	.423364E+00	.383011E+00	.253997E+00
0.	0.	0.	0.	.480898E+00	.377784E+00	.252162E+00
0.	0.	0.	0.	0.	.451843E+00	.261884E+00
0.	0.	0.	0.	0.	0.	.297478E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
.361490E+00	.454112E+00	.625991E+00	.829683E+00	.141273E+01	.323153E+01	.693061E+01
.355394E+00	.297780E+00	.296599E+00	.285620E+00	.193534E+00	.861682E-01	.128791E-01
.433279E+01	.927287E+01	.993778E+01	.103269E+02	.111064E+02	.131031E+02	.169570E+02
.771274E+01	.875609E+01	.926720E+01	.947288E+01	.984874E+01	.982294E+01	.997725E+01
.255948E+00	.247880E+00	.599918E-01	.427848E-01	.243073E-01	.449567E-01	.486015E-01
.348537E-01	.324949E-01	.104802E-01	.222871E-02	.157644E-02	0.	0.
.175576E+00	.717117E-01	0.	0.	.401237E-03	.200104E-03	0.
.222162E+00	.679036E-01	.405156E-02	0.	0.	.436166E-04	.228174E-04
.280351E+00	.159870E+00	.116184E-01	.391438E-03	0.	0.	.237904E-05
.206824E+00	.156807E+00	.280356E-01	.169482E-02	0.	0.	0.
.193594E+00	.145344E+00	.273001E-01	.415483E-02	.364459E-04	.203840E-03	0.
.172834E+00	.134008E+00	.250517E-01	.403408E-02	.582513E-03	.363783E-06	0.
.169522E+00	.114691E+00	.228427E-01	.368863E-02	.564970E-03	.231733E-04	0.
.134799E+00	.110705E+00	.195748E-01	.284510E-02	.515924E-03	.795518E-04	.316846E-05
.132475E+00	.944813E-01	.180843E-01	.284510E-02	.447767E-03	.771244E-04	.108707E-04
.131517E+00	.861421E-01	.153855E-01	.26983E-02	.396338E-03	.703928E-04	.105416E-04
.136599E+00	.854195E-01	.140278E-01	.22173E-02	.362334E-03	.637863E-04	.961593E-05
.155153E+00	.888183E-01	.132202E-01	.207714E-02	.307781E-03	.539955E-04	.871417E-05
0.	.100889E+00	.144634E-01	.280737E-02	.240615E-03	.493019E-04	.737588E-05
0.	0.	.164284E-01	.208480E-02	.240615E-03	.418540E-04	.673005E-05
0.	0.	0.	.236812E-02	.278587E-03	.381599E-04	.572464E-05
0.	0.	0.	0.	.289333E-03	.378841E-04	.521936E-05
0.	0.	0.	0.	.328651E-03	.393454E-04	.518164E-05
0.	0.	0.	0.	0.	.446924E-04	.538152E-05
0.	0.	0.	0.	0.	0.	.611285E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
.910880E+01	.117284E+02	.328891E+02	.689251E+02	.279878E+02	.291542E+03	.124733E+05
0.	0.	0.	0.	0.	.745084E+00	.888372E+01
.192444E+02	.221597E+02	.508892E+02	.998434E+02	.392656E+02	.380082E+03	.130373E+05
.101252E+02	.103786E+02	.179204E+02	.488643E+02	.112025E+02	.883773E+02	.563919E+03
.490916E-01	.500036E-01	.527196E-01	.796944E-01	.495415E-01	.752761E-01	.616283E+01
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.429586E-06	0.	0.	0.	0.	0.	0.
.147094E-05	0.	0.	0.	0.	0.	0.
.141931E-05	.205481E-06	0.	0.	0.	0.	0.
.129724E-05	.198777E-06	0.	0.	0.	0.	0.
.117980E-05	.177118E-06	0.	0.	0.	0.	0.
.997004E-06	.160042E-06	0.	0.	0.	0.	0.
.903487E-06	.135026E-06	0.	0.	0.	0.	0.
.759792E-06	.127868E-06	0.	0.	0.	0.	0.
.692731E-06	.104799E-06	0.	0.	0.	0.	0.
.687724E-06	0.	0.	0.	0.	0.	0.
.714251E-06	0.	0.	0.	0.	0.	0.
.811317E-06	0.	0.	0.	0.	0.	0.
0.	.111906E-06	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.

GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
.153142E+03	.235964E+03	.155398E+02	.145707E+02	.135006E+02	.123024E+02	.109474E+02
0.	0.	0.	0.	0.	0.	0.
.156358E+03	.237990E+03	.205198E+02	.199629E+02	.193961E+02	.188207E+02	.182601E+02
.320602E+01	.202547E+01	.128300E+00	.159650E+00	.204075E+00	.270011E+00	.373983E+00
.302107E-01	.992849E-02	0.	.266410E+00	.333084E+00	.42A3A5E+00	.571457E+00
0.	0.	0.	0.	.270117E+00	.339075E+00	.438749E+00
0.	0.	0.	0.	0.	.279342E+00	.354515E+00
0.	0.	0.	0.	0.	0.	.297139E+00
0.	0.	0.	0.	.928553E+00	0.	.5A3730E-01
0.	0.	0.	0.	.304001E-02	.325697E+01	.612720E-01
0.	0.	0.	0.	0.	.1081A3E-01	.417156E+03
0.	0.	0.	0.	0.	0.	.333A17E+00
0.	0.	0.	0.	0.	0.	.21073A6E-02
0.	0.	0.	0.	0.	0.	.170052E-01
0.	0.	0.	0.	0.	0.	.372700E-02
0.	0.	0.	.260000E-06	0.	0.	.284000E-02
0.	0.	0.	.218000E-05	.A9J000E-05	0.	.220000E-02
0.	0.	0.	.49A000E-05	.748000E-04	.313000E-04	.220000E-02
0.	0.	0.	.753000E-05	.171000E-03	.262000E-03	.178000E-02
0.	0.	0.	.801000E-05	.254000E-03	.600000E-03	.156000E-02
0.	0.	0.	.801000E-05	.275000E-03	.908000E-03	.203000E-02
0.	0.	0.	.946000E-05	.275000E-03	.967000E-03	.275000E-02
0.	0.	0.	.146000E-04	.326000E-03	.981000E-03	.287000E-02
0.	0.	0.	.646000E-04	.676000E-03	.117000E-02	.371000E-02
0.	0.	0.	.601000E-04	.224000E-02	.240000E-02	.401000E-02
0.	0.	0.	0.	.44J000E-02	.783000E-02	.768000E-02
0.	0.	0.	0.	.602000E-02	.160000E-01	.232000E-01
0.	0.	0.	0.	.61J000E-02	.21A000E-01	.434000E-01
0.	0.	0.	0.	.610000E-02	.146000E-01	.549000E-01
0.	0.	0.	0.	.944000E-02	.214000E-01	.364000E-01
0.	0.	0.	0.	.7A9000E-02	.206000E-01	.529000E-01
0.	0.	0.	0.	.61J000E-02	.264000E-01	.511000E-01
0.	0.	0.	0.	.740000E-02	.2A5000E-01	.656000E-01
0.	0.	0.	0.	.724000E-02	.253000E-01	.732000E-01
0.	0.	0.	0.	.712000E-02	.255000E-01	.657000E-01
0.	0.	0.	0.	.654000E-02	.256000E-01	.656000E-01
0.	0.	0.	0.	.71A000E-02	.238000E-01	.655000E-01
0.	0.	0.	0.	0.	.260000E-01	.608000E-01
0.	0.	0.	0.	0.	0.	.656000E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
.941365E+01	.772035E+01	.610255E+01	.675150E+01	.238174E+02	.318927E+03	.133621E+05
0.	0.	0.	0.	0.	0.	0.
.177A16E+02	.175748E+02	.182478E+02	.230944E+02	.4A8114E+02	.35322A6E+03	.134145E+05
.552109E+00	.896468E+00	.170464E+01	.445576E+01	.833976E+01	.317421F+02	.52A092E+02
.800700E+00	.120299E+01	.201313E+01	.410145E+01	.776505E+01	.146546E+02	.255881E+01
.591097E+00	.843118E+00	.131570E+01	.246300E+01	.106994E+01	.599991E+01	0.
.46A792E+00	.64A313E+00	.9A3270E+00	.180549E+01	.144402E+02	.33837A6E+01	0.
.395A33E+00	.528167E+00	.790A21E+00	.144471E+01	.1A8A27E+02	.237527E+01	0.
.329J37E+00	.447601E+00	.665055E+00	.121243E+01	.219031E+02	.183205E+01	0.
.512266E+01	.386647E+00	.575443E+00	.104798E+01	.248857E+02	.149154E+01	0.
.5A0387E+01	.257411E+02	.509254E+00	.92A844E+00	.271182E+02	.125796F+01	0.
.3A8A68E+05	.282532E+02	.172265E+03	.A2A62A6E+00	.292761E+02	.10H769F+01	0.
.2A8A19E+02	.1A7C74E+06	.187720E+03	.422142E+03	.172224E+02	.95A047F+00	0.
.19A729E+00	.140249E+03	.124A70E+07	.45450E+03	.154649E+03	.856024F+00	0.
.160A60E+01	.967210E+00	.932A72E+03	.304A49E+07	.1A8449E+03	.440494E+02	0.
.750400E+00	.781320E+01	.643770E+01	.22A344E+04	.112119E+07	.679944F+02	.340866E+01
.269A00E+00	.170455E+01	.520A80E+02	.157306E+02	.83A901E+03	.320144F+06	.371036E+01
.20A000E+00	.131000E+01	.113515E+02	.127156E+03	.570460E+01	.24130A6E+03	.24A076E+05
.160000E+00	.101000E+01	.870000E+01	.277400E+02	.4672A0E+02	.164208E+01	.189168E+02
.799000E+01	.777000E+00	.673000E+01	.213000E+02	.191835E+02	.1332A4F+02	.127199E+00
.365000E+01	.364000E+00	.517000E+01	.185000E+02	.781000E+01	.289A10E+01	.103410E+01
.271400E+01	.167000E+00	.253000E+01	.127000E+02	.404000E+01	.222000E+01	.224474E+00
.172000E+01	.181000E+00	.107000E+01	.621000E+01	.465000E+01	.172000E+01	.172000E+00
.187000E+01	.659000E+01	.610000E+00	.263000E+01	.232000E+01	.133000E+01	.133000E+00
.199000E+01	.432000E+01	.366000E+00	.152000E+01	.107000E+01	.721000E+00	.104000E+00
.290000E+01	.570000E+01	.318000E+00	.924000E+00	.720000E+00	.441000E+00	.612000E-01
.683000E+01	.736000E+01	.235000E+00	.794000E+00	.512000E+00	.410000E+00	.463000E-01
.114000E+00	.165000E+00	.239000E+00	.5A6000E+00	.4A4000E+00	.363000E+00	.502000E-01
.13A800E+00	.283000E+00	.439000E+00	.625000E+00	.417000E+00	.350000E+00	.557000E-01
.914000E+01	.350000E+00	.731000E+00	.127000E+01	.652000E+00	.376000E+00	.139000E+00
.133000E+00	.230000E+00	.911000E+00	.223000E+01	.197000E+01	.720000E+00	.385000E+00
.129000E+00	.338000E+00	.592000E+00	.301000E+01	.3A9000E+01	.228000E+01	.609000E+00
.164000E+00	.336000E+00	.106000E+01	.211000E+01	.616000E+01	.464000E+01	.544000E+00
.192000E+00	.434000E+00	.125000E+01	.380000E+01	.359000E+01	.597000E+01	.955000E+00
.176000E+00	.537000E+00	.135000E+01	.377000E+01	.574000E+01	.380000E+01	.113000E+01
.172000E+00	.480000E+00	.147000E+01	.354000E+01	.601000E+01	.587000E+01	.691000E+00
.168000E+00	.463000E+00	.133000E+01	.406000E+01	.642000E+01	.64A000E+01	.968000E+00
.154000E+00	.450000E+00	.133000E+01	.377000E+01	.734000E+01	.783000E+01	.102000E+01
.16A000E+00	.410000E+00	.133000E+01	.446000E+01	.793000E+01	.830000E+01	.12A000E+01
0.	.432000E+00	.123000E+01	.481000E+01	.790000E+01	.875000E+01	.131000E+01
0.	0.	.134000E+01	.437000E+01	.784000E+01	.831000E+01	.132000E+01
0.	0.	0.	.485000E+01	.730000E+01	.796000E+01	.125000E+01
0.	0.	0.	0.	.780000E+01	.719000E+01	.120000E+01
0.	0.	0.	0.	0.	.747000E+01	.109000E+01
0.	0.	0.	0.	0.	0.	.113000E+01



GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.274860E+00	.349690E-03	-.147668E-02	-.151464E-02	-.153142E-02	-.155756E-02	-.158216E-02
-.205293E-02	-.454886E-02	-.270935E-04	-.267137E-04	-.229911E-04	-.330779E-04	-.349036E-04
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.160550E-02	-.164482E-02	-.284643E-02	-.495231E-02	-.176509E-02	.253111E-01	-.909613E-01
-.353357E-04	-.360280E-04	-.376535E-04	-.594618E-04	-.601593E-04	-.495521E-04	-.394427E-01
0.	0.	0.	0.	0.	0.	0.
GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.511656E-03	-.326760E-03	.127586E+00	.158541E+00	.202260E+00	.266821E+00	.367837E+00
-.674253E-03	-.856735E-05	0.	.261430E+00	.325208E+00	.415163E+00	.547459E+00
0.	0.	0.	0.	.258598E+00	.320450E+00	.406518E+00
0.	0.	0.	0.	0.	.258745E+00	.320061E+00
0.	0.	0.	0.	0.	0.	.262752E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.539428E+00	.460570E+00	.157755E+01	.351824E+01	.514827E+01	.446142E+01	.544678E+01
.752261E+00	.108899E+01	.167089E+01	.247449E+01	.116396E+01	-.911220E+00	.232649E+00
.82989E+00	.711079E+00	.964865E+00	.107007E+01	-.364502E+00	-.970910E+00	0.
.404143E+00	.519852E+00	.663676E+00	.633895E+00	-.447181E+00	-.473091E+00	0.
.325080E+00	.407772E+00	.502824E+00	.435405E+00	-.427104E+00	-.293900E+00	0.
.271498E+00	.335072E+00	.404182E+00	.325417E+00	-.391631E+00	-.207661E+00	0.
0.	.294462E+00	.337878E+00	.256750E+00	-.344541E+00	-.159399E+00	0.
0.	0.	.290345E+00	.210371E+00	-.312331E+00	-.127048E+00	0.
0.	0.	0.	.177216E+00	-.294881E+00	-.105553E+00	0.
0.	0.	0.	0.	-.261438E+00	-.900046E-01	0.
0.	0.	0.	0.	0.	-.782860E-01	0.
0.	0.	0.	0.	0.	0.	0.

Neutron ID = 4, Atomic No. = 94, Table 4

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6	GROUP 7
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.261970E+00	.261420E+00	.261710E+00	.264530E+00	.308490E+00	.367760E+00	.308650E+00
0.	.666861E-02	.213433E-02	.266363E-02	.221879E-02	.333131E-02	.216118E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 8	GROUP 9	GROUP 10	GROUP 11	GROUP 12	GROUP 13	GROUP 14
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.380750E+00	.427120E+00	.455786E+00	.303213E+00	.548529E+00	.367230E+00	.940410E+01
-.580097E-04	.349777E-02	.678302E-02	.104533E-01	.101906E-01	.224870E-02	-.205562E-02
0.	0.	0.	0.	0.	0.	0.
GROUP 15	GROUP 16	GROUP 17	GROUP 18	GROUP 19	GROUP 20	GROUP 21
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.373090E-03	-.194489E-02	-.218693E-02	-.223704E-02	-.227516E-02	-.231573E-02	-.235207E-02
-.292421E-02	-.313977E-04	-.732782E-05	-.531373E-05	-.384669E-05	-.734110E-05	-.797452E-05
0.	0.	0.	0.	0.	0.	0.
GROUP 22	GROUP 23	GROUP 24	GROUP 25	GROUP 26	GROUP 27	GROUP 28
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-.238706E-02	-.244653E-02	-.422625E-02	-.729446E-02	-.263758E-02	-.196667E-01	-.133414E+00
-.818092E-05	-.814375E-05	-.662031E-05	-.136042E-04	-.772045E-05	-.124172E-04	-.146799E-02
0.	0.	0.	0.	0.	0.	0.



GROUP 29	GROUP 30	GROUP 31	GROUP 32	GROUP 33	GROUP 34	GROUP 35
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
-756893E-03	-479200E-03	.126874E+00	.157439E+00	.200466E+00	.263661E+00	.36176AE+00
.582714E-05	-.161017E-05	0.	.256504E+00	.317443E+00	.4021A3E+00	.524061E+00
0.	0.	0.	0.	.247338E+00	.302366E+00	.375545E+00
0.	0.	0.	0.	0.	.23A935E+00	.287349E+00
0.	0.	0.	0.	0.	0.	.230425E+00
0.	0.	0.	0.	0.	0.	0.
GROUP 36	GROUP 37	GROUP 38	GROUP 39	GROUP 40	GROUP 41	GROUP 42
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.
.525399E+00	.825782E+00	.144849E+01	.274435E+01	.303773E+01	.137044E+01	.430958E+00
.705584E+00	.981563E+00	.136507E+01	.129087E+01	.787168E+00	-.112690E+01	-.404699E-01
.472627E+00	.590273E+00	.866465E+00	.163888E+00	-.108131E+01	.806790E-01	0.
.345909E+00	.404971E+00	.401373E+00	-.740803E-01	-.755294E+00	.293784E+00	0.
.269325E+00	.301904E+00	.272474E+00	-.144602E+00	-.617565E+00	.268228E+00	0.
.216959E+00	.237969E+00	.199537E+00	-.166212E+00	-.602214E+00	.230A37E+00	0.
0.	.195100E+00	.153A90E+00	-.170170E+00	-.422246E+00	.199527E+00	0.
0.	0.	.123219E+00	-.167044E+00	-.363817E+00	.174722E+00	0.
0.	0.	0.	-.161176E+00	-.314372E+00	.155009E+00	0.
0.	0.	0.	0.	-.284474E+00	.139109E+00	0.
0.	0.	0.	0.	0.	.126070E+00	0.
0.	0.	0.	0.	0.	0.	0.

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