INTEGRAL NEUTRON SCATTERING
MEASUREMENTS ON IRON FROM
1 TO 20 MeV

G. L. Morgan
T. A. Love
F. G. Perey

MASTER

OAK RIDGE NATIONAL LABORATORY

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OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee 37830
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ABSTRACT

The spectrum of neutrons scattered through 90° by a thick (≈ 1 mean free path) annulus of iron has been measured as a function of the incident neutron energy over the range from 1 to 20 MeV. The measurements were made for an incident neutron beam with smooth energy dependence and with an incident beam structured by an iron filter (also ≈ 1 m.f.p). The results of the measurement are presented in forms suitable for comparison to calculations based on the evaluated neutron data files.

INTRODUCTION

Measurements have been made of the scattered neutron spectra from a thick iron sample for incident neutron energies between 1 and 20 MeV. This experiment was performed as part of a program at ORNL to provide differential data suitable for checking the evaluated neutron data files for those elements which are important in the analysis of problems related to shielding.

The experimental technique was capable of sufficient resolution in the energy and angle of both incident and scattered neutrons to provide data with a localized sensitivity. Thus, although it is necessary to compare the cross-section file to the experiment by means of rather complex calculations using transport codes, there is still an essentially direct, differential relation between the calculated neutron spectra and the cross-section data.

Data were taken under two conditions using a linac (ORELA) as a neutron source. In one measurement the flux incident on the scattering sample was unfiltered; i.e., the energy dependence was smooth, having no structure comparable to or less than the energy resolution of the experiment. These data provide a direct check on the accuracy of the secondary neutron production cross sections in the evaluated files.

In a second measurement, the scatterer and detector were as before, but the incident neutron flux was structured by passage through an iron filter in good geometry. For this part of the experiment the region of interest lies between 1 and 5 MeV where the iron total cross section shows very strong and rapid variations with energy. The best available measurements (although far superior to present resolution) have not had sufficient

resolution to provide completely undistorted measurements of this structure. Therefore, the data in the evaluated files represent cross sections which have been "averaged" over the structure in the cross section.

The present data were intended to check the adequacy of these cross-section sets when applied to transport problems where the neutron flux is strongly structured by the shielding medium. In the work reported here, the beam filter was about 1 mean free path thick based on average total cross section. This is less than normally encountered in shielding problems, therefore agreement between calculation and experiment would not strongly attest to the adequacy of the cross-section sets for deep penetration problems. On the other hand, a marked discrepancy between calculation and measurement would indicate a serious inadequacy of the neutron data files.

Calculations¹ (based on the current ENDF/B file) of the experiment reported here are presently underway at this laboratory. The results will be released shortly.

EXPERIMENTAL PROCEDURE

The experimental procedure used in this measurement has been described in detail elsewhere² and will be only briefly outlined here. The Oak Ridge Electron Linear Accelerator was used as the neutron source. An electron beam pulse width of 5 ns at a repetition rate of 1000 sec^{-1} and a total beam power of 10 kW was used for this experiment.

The scattering sample was located 47 m from the neutron source and consisted of a stepped iron ring 25.38 cm in outer diameter, 15.30 cm in inner diameter with a thickness of 3.72 cm (see Figure 1 and Table 1 for details of the sample-detector geometry and the chemical composition of the scattering sample and beam filter). The scattered neutrons were

Fig. 1. Details of the scattering sample and scattered neutron detector. Unless otherwise noted, all dimensions are in centimeters.

TABLE 1. IMPURITIES IN THE IRON SCATTERING SAMPLE AND BEAM FILTER
AS DETERMINED BY CHEMICAL ANALYSIS. (% by weight)

Impurity	Scattering Sample ^{a)}	Beam Filter ^{b)}
Mn	0.68%	0.72%
C	0.21	0.21
P	0.17	0.02
Si	----	0.10
Cu	0.02	0.06
Cr	0.01	0.02
Ni	0.02	0.02
Al	0.01	0.01

a) Density = 7.826 g/cm³

b) Density = 7.828 g/cm³

detected by a NE-213 scintillation counter located on the axis of the ring at a position corresponding to an average scattering angle of 90° . A shadow bar shielded the detector from the direct neutron beam.

The energy of an incident neutron was determined by the time after the linac pulses at which the scattered neutron was detected. Each event in the detector due to a scattered neutron was recorded in a two-parameter array of pulse height versus time of flight and in a high resolution (4ns/chl) time-of-flight spectrum for all neutron events having pulse height above the detector bias. The scattered neutron spectrum for a given incident neutron energy was determined by unfolding the pulse-height spectrum for the corresponding time of flight.

Gamma-ray events were eliminated by pulse-shape discrimination. Backgrounds were determined with the sample removed. The flux incident on the sample was measured using the same detector as for the secondary neutrons.

Data were taken for the iron filtered beam in an identical configuration. The filter was 2.49 cm thick and was located 4 m from the neutron source. This filter location insured a "good geometry" so the only flux incident on the scattering ring was the uncollided flux through the filter.

RESULTS

The data are presented in three different ways, each intended to make use of the available statistics to provide a maximum of information about a particular aspect of the cross section. In the case of the unfiltered beam, all results are normalized to unit neutron incident on the scattering ring. In the case of the iron-filtered beam, the results are normalized to unit incident neutron on the filter-scatterer system, i.e., the flux was measured at the scatterer position before insertion of the filter in the be

The high-resolution one-parameter data on time of flight have been reduced to give the integral neutron counting rate in the detector above the threshold of 0.026 light units (light units are defined in Reference 3) as a function of the incident neutron energy. These data, shown in Figure 2, make maximum use of the available statistics to get the best time resolution and so provide all the information available from the experiment about structure in the cross section. Numerical values are given in Tables 3 and 6 of the appendix. In these tables, as in other tables of the appendix where applicable, the neutron energy tabulated is the energy in the middle of the interval whose width is stated under the column headed energy spread. Comparison of these data to cross-section sets would require that the calculation include the detector and its efficiency as a function of neutron energy. The detector efficiency as a function of neutron energy was determined as explained in Ref. 2 and is tabulated in Table 2 of the appendix.

The spectra of scattered neutrons were obtained by unfolding the pulse-height spectra resulting from integration of the two-parameter data over a range of time of flight. The extent of these TOF intervals was determined by the need to get adequate statistics in the pulse-height spectra. Below 5 MeV the data were integrated over 0.25 MeV wide intervals in incident energy. From 5 to 16 MeV these intervals were 1.0 MeV and from 20 MeV they were 2.0 MeV in width. Due to the smaller number of counts the data with the iron filtered beam were analyzed only below 5 MeV.

Unfolded results are shown in Figures 3 - 10. These spectra still retain the effects of the finite pulse-height resolution of the detector.

Fig. 2. The integral counting rate due to scattered neutrons as a function of incident neutron energy. The average scattering angle is about 90° .

Fig. 3. Scattered neutron spectra at 90° . The label indicates the range of incident neutron energy. The abscissa is secondary neutron energy; the ordinate is neutron flux/MeV averaged over the projected area of the detector as seen from a point on the sample.

Fig. 4. Scattered neutron spectra at 90° .

Fig. 5. Scattered neutron spectra at 90°.

Fig. 6. Scattered neutron spectra at 90°.

Fig. 7. Scattered neutron spectra at 90° .

Fig. 8. Scattered neutron spectra at 90° .

Fig. 9. Scattered neutron spectra at 90° .

Fig. 10. Scattered neutron spectra at 90° .

In neutron energy this resolution varied from about 30% at 1 MeV to 17% at 20 MeV according to the formula

$$R = \sqrt{250 + 670/E_n},$$

where R = FWHM in percent and E_n = neutron energy in MeV. The units in which these data are defined is the secondary neutron flux per MeV at the detector, averaged over the projected area of the detector as seen from a point on the scattering ring. The data have been normalized to unit incident neutron using the integral of the measured incident flux over the same incident energy range from which the pulse-height spectrum was formed. These results are tabulated in the appendix (Tables 4 and 7).

Because of the demands on statistical accuracy, the unfolding technique requires rather large bins in the incident energy. Thus while this approach provides a great deal of information about the secondary neutron spectra, the effects of sharp structure in the cross section are washed out by the need for large incident energy bins. As a compromise between the unfolding procedure and the integral count-rate analysis, a third method of data reduction, pulse-height weighting, was undertaken (see Reference 2 for details of the method). This approach provides general information about the secondary neutron spectrum (e.g., total number of scattered neutrons, average secondary neutron energy) and allows the use of smaller bins on the incident energy and so permits the effects of sharp structure in the cross section to be seen.

For the present work this analysis was applied to the pulse-height data integrated over 20 keV wide intervals in incident energy over the range from 1 to 3.8 MeV. The results for total number of scattered

neutrons/cm²/MeV at the detector position and the average secondary neutron energy is shown in Figure 11. Tabulated values are given in Tables 5 and 8 of the appendix.

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Fig. 11. Total number of scattered neutrons/cm²/MeV at the detector position and their average energy. The abscissa is incident neutron energy. The minimum energy sampled by the detector is 0.760 MeV. The dip in the average secondary neutron energy at 1.6 MeV is the threshold for detection of those neutrons inelastically scattered to the first excited state (846 keV) in ⁵⁶Fe.

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2. G. L. Morgan, T. A. Love and F. G. Perey, Integral Neutron Scattering Measurements on Carbon from 1 to 20 MeV, ORNL-TM-4157 (April 1973).
3. V. V. Verbinski, W. R. Burrus, T. A. Love, W. Zobel and N. W. Hill, Nucl. Instr. Meth. 65, 8 (1969); T. A. Love, R. T. Santoro, R. W. Peelle and N. W. Hill, Rev. Sci. Instr. 39, 541 (1969).

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APPENDIX
IRON RING TABULATED DATA

TABLE 2.

DETECTOR EFFICIENCY, IN COUNTS/INCIDENT NEUTRON/SQ. CM, AS A FUNCTION OF NEUTRON ENERGY FOR A BIAS LEVEL OF 0.026 LIGHT UNITS (SEE TEXT).

NEUTRON ENERGY (MEV)	EFFICIENCY (CTS/N/SQ. CM)	NEUTRON ENERGY (MEV)	EFFICIENCY (CTS/N/SQ. CM)	NEUTRON ENERGY (MEV)	EFFICIENCY (CTS/N/SQ. CM)
0.200	0.02565	1.900	7.00775	5.250	4.72799
0.225	0.23217	2.000	6.90833	5.500	4.62094
0.250	0.53640	2.100	6.81091	5.750	4.51372
0.275	0.93834	2.200	6.71550	6.000	4.40634
0.300	1.43799	2.300	6.62212	6.250	4.28371
0.325	2.08253	2.400	6.53075	6.500	4.16976
0.350	3.06288	2.500	6.44138	6.750	4.06593
0.375	3.94818	2.600	6.35401	7.000	3.97223
0.400	4.73843	2.700	6.26864	7.250	3.89656
0.425	5.43362	2.800	6.18526	7.500	3.82687
0.450	5.82028	2.900	6.10388	7.750	3.76136
0.475	6.16002	3.000	6.02451	8.000	3.70002
0.500	6.47417	3.100	5.94712	8.250	3.64640
0.525	6.76274	3.200	5.87174	8.500	3.59633
0.550	7.02572	3.300	5.79931	8.750	3.54930
0.575	7.26312	3.400	5.72919	9.000	3.50529
0.600	7.47493	3.500	5.66074	9.250	3.46432
0.650	7.67809	3.600	5.59396	9.500	3.42637
0.700	7.77603	3.700	5.52886	9.750	3.39146
0.750	7.85736	3.800	5.46542	10.000	3.35957
0.800	7.92209	3.900	5.40365	11.000	3.29247
0.850	7.97022	4.000	5.34356	12.000	3.21122
0.900	8.00175	4.100	5.28513	13.000	3.09128
1.000	7.97012	4.200	5.22830	14.000	3.01241
1.100	7.91489	4.300	5.17510	15.000	2.97729
1.200	7.83885	4.400	5.12375	16.000	2.97818
1.300	7.70235	4.500	5.07317	17.000	3.04048
1.400	7.56894	4.600	5.02335	18.000	3.06829
1.500	7.44137	4.700	4.97429	19.000	3.05888
1.600	7.31963	4.800	4.92598	20.000	3.05567
1.700	7.21262	4.900	4.87844	21.000	3.05868
1.800	7.10918	5.000	4.83489	22.000	3.06789

TABLE 3.

INTEGRAL NEUTRON COUNTING RATE AS A FUNCTION OF INCIDENT NEUTRON ENERGY
FOR AN APPROXIMATE SCATTERING ANGLE OF 90 DEGREES. AT THE LOWER ENERGIES,
THE DATA ARE AVERAGES OVER 0.002 NEV INTERVALS.

UNFILTERED BEAM

ENERGY (NEV)	ENERGY SPREAD (NEV)	CTS/INC. NEUT.	ERROR (ABS)	ENERGY (NEV)	ENERGY SPREAD (NEV)	CTS/INC. NEUT.	ERROR (ABS)
0.5710	0.0020	0.131E-02	0.210E-04	0.7613	0.0015	0.224E-02	0.389E-04
0.5730	0.0020	0.149E-02	0.227E-04	0.7629	0.0015	0.223E-02	0.387E-04
0.5750	0.0020	0.165E-02	0.241E-04	0.7644	0.0016	0.224E-02	0.389E-04
0.5770	0.0020	0.168E-02	0.244E-04	0.7667	0.0031	0.230E-02	0.280E-04
0.5791	0.0020	0.151E-02	0.228E-04	0.7691	0.0016	0.245E-02	0.414E-04
0.5811	0.0021	0.128E-02	0.206E-04	0.7707	0.0016	0.258E-02	0.431E-04
0.5832	0.0021	0.113E-02	0.190E-04	0.7730	0.0032	0.270E-02	0.316E-04
0.5853	0.0021	0.103E-02	0.181E-04	0.7754	0.0016	0.263E-02	0.438E-04
0.5874	0.0021	0.989E-03	0.175E-04	0.7770	0.0016	0.258E-02	0.432E-04
0.5889	0.0011	0.961E-03	0.245E-04	0.7786	0.0016	0.249E-02	0.419E-04
0.5905	0.0021	0.920E-03	0.169E-04	0.7810	0.0032	0.250E-02	0.794E-04
0.5926	0.0021	0.873E-03	0.163E-04	0.7834	0.0016	0.253E-02	0.425E-04
0.5948	0.0021	0.839E-03	0.159E-04	0.7850	0.0016	0.255E-02	0.428E-04
0.5969	0.0021	0.757E-03	0.150E-04	0.7866	0.0016	0.247E-02	0.418E-04
0.5991	0.0022	0.679E-03	0.141E-04	0.7891	0.0033	0.239E-02	0.288E-04
0.6012	0.0022	0.665E-03	0.139E-04	0.7915	0.0016	0.221E-02	0.383E-04
0.6034	0.0022	0.625E-03	0.134E-04	0.7932	0.0016	0.210E-02	0.370E-04
0.6050	0.0011	0.580E-03	0.182E-04	0.7948	0.0016	0.204E-02	0.362E-04
0.6067	0.0022	0.535E-03	0.123E-04	0.7965	0.0017	0.199E-02	0.355E-04
0.6089	0.0022	0.520E-03	0.121E-04	0.7990	0.0033	0.184E-02	0.237E-04
0.6111	0.0022	0.643E-03	0.134E-04	0.8015	0.0017	0.173E-02	0.320E-04
0.6133	0.0022	0.771E-03	0.149E-04	0.8031	0.0017	0.155E-02	0.296E-04
0.6150	0.0011	0.831E-03	0.218E-04	0.8048	0.0017	0.145E-02	0.282E-04
0.6167	0.0023	0.790E-03	0.150E-04	0.8065	0.0017	0.132E-02	0.264E-04
0.6189	0.0023	0.641E-03	0.133E-04	0.8090	0.0034	0.131E-02	0.186E-04
0.6212	0.0023	0.573E-03	0.125E-04	0.8116	0.0017	0.137E-02	0.270E-04
0.6229	0.0011	0.540E-03	0.172E-04	0.8133	0.0017	0.146E-02	0.283E-04
0.6246	0.0023	0.521E-03	0.118E-04	0.8150	0.0017	0.155E-02	0.295E-04
0.6269	0.0023	0.536E-03	0.120E-04	0.8167	0.0017	0.160E-02	0.302E-04
0.6293	0.0023	0.561E-03	0.123E-04	0.8184	0.0017	0.163E-02	0.306E-04
0.6310	0.0012	0.576E-03	0.176E-04	0.8210	0.0035	0.163E-02	0.216E-04
0.6328	0.0023	0.567E-03	0.124E-04	0.8236	0.0017	0.168E-02	0.313E-04
0.6351	0.0024	0.543E-03	0.121E-04	0.8253	0.0017	0.169E-02	0.315E-04
0.6369	0.0012	0.548E-03	0.172E-04	0.8271	0.0017	0.172E-02	0.318E-04
0.6386	0.0024	0.528E-03	0.119E-04	0.8288	0.0018	0.168E-02	0.313E-04
0.6410	0.0024	0.603E-03	0.128E-04	0.8306	0.0018	0.162E-02	0.305E-04
0.6428	0.0012	0.701E-03	0.196E-04	0.8324	0.0018	0.162E-02	0.304E-04
0.6446	0.0024	0.732E-03	0.162E-04	0.8350	0.0035	0.177E-02	0.230E-04
0.6470	0.0024	0.690E-03	0.137E-04	0.8377	0.0018	0.192E-02	0.345E-04
0.6489	0.0012	0.608E-03	0.181E-04	0.8395	0.0018	0.192E-02	0.345E-04
0.6507	0.0024	0.637E-03	0.131E-04	0.8413	0.0018	0.186E-02	0.336E-04
0.6531	0.0025	0.809E-03	0.150E-04	0.8431	0.0018	0.175E-02	0.322E-04
0.6550	0.0012	0.959E-03	0.233E-04	0.8449	0.0018	0.153E-02	0.291E-04
0.6568	0.0025	0.995E-03	0.168E-04	0.8467	0.0018	0.134E-02	0.265E-04
0.6593	0.0025	0.106E-02	0.175E-04	0.8485	0.0018	0.120E-02	0.246E-04
0.6612	0.0013	0.111E-02	0.253E-04	0.8503	0.0018	0.125E-02	0.253E-04
0.6631	0.0025	0.130E-02	0.197E-04	0.8521	0.0018	0.140E-02	0.273E-04
0.6650	0.0013	0.155E-02	0.311E-04	0.8549	0.0037	0.173E-02	0.225E-04
0.6668	0.0025	0.177E-02	0.240E-04	0.8576	0.0018	0.209E-02	0.368E-04
0.6687	0.0013	0.204E-02	0.372E-04	0.8595	0.0019	0.220E-02	0.382E-04
0.6707	0.0026	0.228E-02	0.284E-04	0.8614	0.0019	0.217E-02	0.378E-04
0.6732	0.0026	0.254E-02	0.307E-04	0.8632	0.0019	0.210E-02	0.369E-04
0.6752	0.0013	0.267E-02	0.449E-04	0.8651	0.0019	0.193E-02	0.346E-04
0.6771	0.0026	0.262E-02	0.313E-04	0.8670	0.0019	0.176E-02	0.323E-04
0.6790	0.0013	0.253E-02	0.431E-04	0.8688	0.0019	0.157E-02	0.296E-04
0.6810	0.0025	0.238E-02	0.292E-04	0.8707	0.0019	0.140E-02	0.273E-04
0.6830	0.0013	0.214E-02	0.384E-04	0.8726	0.0019	0.130E-02	0.259E-04
0.6849	0.0026	0.188E-02	0.248E-04	0.8745	0.0019	0.123E-02	0.248E-04
0.6869	0.0013	0.169E-02	0.326E-04	0.8764	0.0019	0.123E-02	0.248E-04
0.6889	0.0027	0.159E-02	0.221E-04	0.8783	0.0019	0.131E-02	0.261E-04
0.6909	0.0013	0.159E-02	0.313E-04	0.8803	0.0019	0.138E-02	0.271E-04
0.6929	0.0027	0.151E-02	0.214E-04	0.8822	0.0019	0.146E-02	0.280E-04
0.6949	0.0013	0.142E-02	0.291E-04	0.8841	0.0019	0.149E-02	0.285E-04
0.6970	0.0027	0.116E-02	0.181E-04	0.8860	0.0019	0.145E-02	0.279E-04
0.6990	0.0014	0.852E-03	0.212E-04	0.8890	0.0039	0.131E-02	0.183E-04
0.7010	0.0027	0.694E-03	0.137E-04	0.8919	0.0020	0.126E-02	0.252E-04
0.7031	0.0014	0.680E-03	0.186E-04	0.8939	0.0020	0.132E-02	0.261E-04
0.7051	0.0028	0.865E-03	0.151E-04	0.8958	0.0020	0.137E-02	0.269E-04
0.7072	0.0014	0.113E-02	0.249E-04	0.8978	0.0020	0.145E-02	0.279E-04
0.7086	0.0014	0.145E-02	0.291E-04	0.8998	0.0020	0.150E-02	0.287E-04
0.7107	0.0028	0.188E-02	0.246E-04	0.9018	0.0020	0.147E-02	0.282E-04
0.7128	0.0014	0.231E-02	0.401E-04	0.9038	0.0020	0.138E-02	0.270E-04
0.7149	0.0028	0.264E-02	0.312E-04	0.9058	0.0020	0.134E-02	0.264E-04
0.7170	0.0014	0.286E-02	0.469E-04	0.9078	0.0020	0.128E-02	0.255E-04
0.7191	0.0028	0.296E-02	0.340E-04	0.9098	0.0020	0.126E-02	0.252E-04
0.7213	0.0014	0.294E-02	0.479E-04	0.9118	0.0020	0.126E-02	0.253E-04
0.7227	0.0014	0.295E-02	0.479E-04	0.9138	0.0020	0.127E-02	0.253E-04
0.7248	0.0029	0.281E-02	0.327E-04	0.9159	0.0020	0.128E-02	0.255E-04
0.7270	0.0014	0.264E-02	0.441E-04	0.9179	0.0020	0.125E-02	0.252E-04
0.7292	0.0029	0.242E-02	0.293E-04	0.9200	0.0021	0.125E-02	0.250E-04
0.7313	0.0015	0.224E-02	0.391E-04	0.9220	0.0021	0.124E-02	0.249E-04
0.7328	0.0015	0.214E-02	0.376E-04	0.9241	0.0021	0.119E-02	0.241E-04
0.7350	0.0029	0.199E-02	0.254E-04	0.9262	0.0021	0.111E-02	0.230E-04
0.7372	0.0015	0.195E-02	0.354E-04	0.9282	0.0021	0.103E-02	0.219E-04
0.7387	0.0015	0.198E-02	0.357E-04	0.9303	0.0021	0.952E-03	0.207E-04
0.7409	0.0030	0.211E-02	0.265E-04	0.9324	0.0021	0.914E-03	0.201E-04
0.7431	0.0015	0.235E-02	0.403E-04	0.9345	0.0021	0.867E-03	0.194E-04
0.7446	0.0015	0.242E-02	0.413E-04	0.9366	0.0021	0.829E-03	0.189E-04
0.7468	0.0030	0.237E-02	0.288E-04	0.9387	0.0021	0.847E-03	0.191E-04
0.7491	0.0015	0.226E-02	0.392E-04	0.9408	0.0021	0.854E-03	0.192E-04
0.7506	0.0015	0.218E-02	0.381E-04	0.9430	0.0021	0.874E-03	0.195E-04
0.7529	0.0030	0.210E-02	0.263E-04	0.9451	0.0021	0.842E-03	0.190E-04
0.7552	0.0015	0.215E-02	0.378E-04	0.9472	0.0021	0.777E-03	0.180E-04
0.7567	0.0015	0.218E-02	0.382E-04	0.9494	0.0022	0.715E-03	0.171E-04
0.7590	0.0031	0.226E-02	0.277E-04	0.9515	0.0022	0.709E-03	0.171E-04

TABLE 3. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)
0.9537	0.0022	0.783E-03	0.182E-04	1.1984	0.0031	0.912E-03	0.149E-04
0.9559	0.0022	0.101E-02	0.214E-04	1.2014	0.0031	0.100E-02	0.163E-04
0.9581	0.0022	0.129E-02	0.257E-04	1.2045	0.0031	0.105E-02	0.175E-04
0.9602	0.0022	0.159E-02	0.301E-04	1.2076	0.0031	0.106E-02	0.184E-04
0.9624	0.0022	0.180E-02	0.331E-04	1.2107	0.0031	0.107E-02	0.159E-04
0.9646	0.0022	0.189E-02	0.343E-04	1.2138	0.0031	0.109E-02	0.161E-04
0.9668	0.0022	0.177E-02	0.326E-04	1.2169	0.0031	0.115E-02	0.171E-04
0.9691	0.0022	0.157E-02	0.297E-04	1.2200	0.0031	0.127E-02	0.188E-04
0.9713	0.0022	0.137E-02	0.268E-04	1.2232	0.0031	0.137E-02	0.207E-04
0.9735	0.0022	0.116E-02	0.238E-04	1.2263	0.0032	0.142E-02	0.225E-04
0.9757	0.0022	0.102E-02	0.217E-04	1.2295	0.0032	0.136E-02	0.230E-04
0.9780	0.0022	0.102E-02	0.216E-04	1.2327	0.0032	0.127E-02	0.171E-04
0.9802	0.0023	0.111E-02	0.231E-04	1.2359	0.0032	0.119E-02	0.167E-04
0.9825	0.0023	0.128E-02	0.256E-04	1.2391	0.0032	0.110E-02	0.164E-04
0.9848	0.0023	0.139E-02	0.272E-04	1.2423	0.0032	0.108E-02	0.169E-04
0.9870	0.0023	0.136E-02	0.268E-04	1.2455	0.0032	0.113E-02	0.182E-04
0.9893	0.0023	0.130E-02	0.259E-04	1.2488	0.0032	0.119E-02	0.201E-04
0.9916	0.0023	0.115E-02	0.237E-04	1.2520	0.0033	0.129E-02	0.176E-04
0.9939	0.0023	0.104E-02	0.221E-04	1.2553	0.0033	0.137E-02	0.186E-04
0.9962	0.0023	0.102E-02	0.217E-04	1.2585	0.0033	0.138E-02	0.193E-04
0.9986	0.0023	0.104E-02	0.220E-04	1.2618	0.0033	0.138E-02	0.200E-04
1.0009	0.0023	0.111E-02	0.231E-04	1.2651	0.0033	0.138E-02	0.212E-04
1.0032	0.0023	0.116E-02	0.238E-04	1.2685	0.0033	0.139E-02	0.226E-04
1.0056	0.0023	0.117E-02	0.240E-04	1.2718	0.0033	0.138E-02	0.180E-04
1.0079	0.0024	0.111E-02	0.231E-04	1.2751	0.0034	0.133E-02	0.174E-04
1.0103	0.0024	0.099E-02	0.114E-04	1.2785	0.0034	0.124E-02	0.176E-04
1.0126	0.0024	0.089E-02	0.198E-04	1.2819	0.0034	0.116E-02	0.176E-04
1.0150	0.0024	0.077E-02	0.181E-04	1.2852	0.0034	0.111E-02	0.180E-04
1.0174	0.0024	0.071E-02	0.171E-04	1.2886	0.0034	0.109E-02	0.188E-04
1.0198	0.0024	0.071E-02	0.172E-04	1.2921	0.0034	0.106E-02	0.152E-04
1.0222	0.0024	0.081E-02	0.186E-04	1.2955	0.0034	0.105E-02	0.153E-04
1.0246	0.0024	0.076E-02	0.210E-04	1.2989	0.0034	0.094E-02	0.152E-04
1.0270	0.0024	0.118E-02	0.241E-04	1.3024	0.0035	0.052E-02	0.155E-04
1.0294	0.0024	0.139E-02	0.273E-04	1.3058	0.0035	0.073E-02	0.165E-04
1.0319	0.0024	0.154E-02	0.229E-04	1.3093	0.0035	0.108E-02	0.189E-04
1.0343	0.0024	0.166E-02	0.242E-04	1.3128	0.0035	0.125E-02	0.171E-04
1.0368	0.0025	0.169E-02	0.250E-04	1.3163	0.0035	0.143E-02	0.191E-04
1.0392	0.0025	0.165E-02	0.253E-04	1.3198	0.0035	0.158E-02	0.212E-04
1.0417	0.0025	0.159E-02	0.255E-04	1.3234	0.0035	0.164E-02	0.231E-04
1.0442	0.0025	0.154E-02	0.259E-04	1.3269	0.0036	0.164E-02	0.247E-04
1.0466	0.0025	0.156E-02	0.272E-04	1.3305	0.0036	0.159E-02	0.193E-04
1.0491	0.0025	0.155E-02	0.283E-04	1.3341	0.0036	0.151E-02	0.189E-04
1.0517	0.0025	0.156E-02	0.224E-04	1.3376	0.0036	0.188E-02	0.193E-04
1.0542	0.0025	0.157E-02	0.227E-04	1.3413	0.0036	0.185E-02	0.200E-04
1.0567	0.0025	0.156E-02	0.229E-04	1.3449	0.0036	0.160E-02	0.207E-04
1.0592	0.0025	0.151E-02	0.230E-04	1.3485	0.0036	0.131E-02	0.211E-04
1.0618	0.0025	0.140E-02	0.225E-04	1.3522	0.0037	0.121E-02	0.162E-04
1.0643	0.0026	0.128E-02	0.218E-04	1.3558	0.0037	0.117E-02	0.161E-04
1.0669	0.0026	0.114E-02	0.209E-04	1.3595	0.0037	0.110E-02	0.159E-04
1.0694	0.0026	0.101E-02	0.198E-04	1.3632	0.0037	0.105E-02	0.162E-04
1.0720	0.0026	0.093E-02	0.157E-04	1.3669	0.0037	0.100E-02	0.164E-04
1.0746	0.0026	0.071E-02	0.152E-04	1.3706	0.0037	0.099E-02	0.139E-04
1.0772	0.0026	0.024E-02	0.150E-04	1.3744	0.0037	0.102E-02	0.143E-04
1.0798	0.0026	0.079E-02	0.150E-04	1.3781	0.0038	0.105E-02	0.150E-04
1.0824	0.0026	0.029E-02	0.157E-04	1.3819	0.0038	0.105E-02	0.157E-04
1.0850	0.0026	0.059E-02	0.166E-04	1.3857	0.0038	0.107E-02	0.169E-04
1.0877	0.0026	0.096E-02	0.178E-04	1.3895	0.0038	0.109E-02	0.185E-04
1.0903	0.0026	0.022E-02	0.157E-04	1.3933	0.0038	0.111E-02	0.152E-04
1.0930	0.0027	0.089E-02	0.155E-04	1.3972	0.0038	0.119E-02	0.162E-04
1.0956	0.0027	0.018E-02	0.150E-04	1.4010	0.0039	0.127E-02	0.178E-04
1.0983	0.0027	0.074E-02	0.145E-04	1.4049	0.0039	0.134E-02	0.195E-04
1.1010	0.0027	0.066E-02	0.141E-04	1.4088	0.0039	0.137E-02	0.214E-04
1.1037	0.0027	0.029E-02	0.151E-04	1.4127	0.0039	0.136E-02	0.167E-04
1.1064	0.0027	0.048E-02	0.159E-04	1.4166	0.0039	0.132E-02	0.168E-04
1.1091	0.0027	0.080E-02	0.171E-04	1.4205	0.0039	0.126E-02	0.170E-04
1.1118	0.0027	0.049E-02	0.151E-04	1.4245	0.0040	0.118E-02	0.172E-04
1.1145	0.0027	0.021E-02	0.159E-04	1.4284	0.0040	0.119E-02	0.185E-04
1.1173	0.0027	0.066E-02	0.166E-04	1.4324	0.0040	0.128E-02	0.158E-04
1.1200	0.0028	0.093E-02	0.173E-04	1.4364	0.0040	0.137E-02	0.170E-04
1.1228	0.0028	0.098E-02	0.179E-04	1.4404	0.0040	0.146E-02	0.186E-04
1.1256	0.0028	0.076E-02	0.183E-04	1.4444	0.0040	0.153E-02	0.207E-04
1.1284	0.0028	0.049E-02	0.186E-04	1.4485	0.0041	0.160E-02	0.231E-04
1.1312	0.0028	0.068E-02	0.158E-04	1.4526	0.0041	0.165E-02	0.184E-04
1.1340	0.0028	0.088E-02	0.161E-04	1.4566	0.0041	0.160E-02	0.186E-04
1.1368	0.0028	0.103E-02	0.167E-04	1.4607	0.0041	0.154E-02	0.191E-04
1.1396	0.0028	0.108E-02	0.176E-04	1.4648	0.0041	0.140E-02	0.189E-04
1.1424	0.0028	0.108E-02	0.182E-04	1.4690	0.0041	0.125E-02	0.187E-04
1.1453	0.0029	0.105E-02	0.186E-04	1.4731	0.0042	0.115E-02	0.143E-04
1.1481	0.0029	0.087E-02	0.185E-04	1.4773	0.0042	0.112E-02	0.144E-04
1.1510	0.0029	0.087E-02	0.149E-04	1.4815	0.0042	0.116E-02	0.155E-04
1.1539	0.0029	0.076E-02	0.137E-04	1.4857	0.0042	0.113E-02	0.162E-04
1.1568	0.0029	0.034E-02	0.126E-04	1.4899	0.0042	0.110E-02	0.171E-04
1.1597	0.0029	0.042E-02	0.121E-04	1.4942	0.0042	0.111E-02	0.140E-04
1.1626	0.0029	0.068E-02	0.122E-04	1.4984	0.0043	0.115E-02	0.149E-04
1.1655	0.0029	0.071E-02	0.127E-04	1.5027	0.0043	0.123E-02	0.166E-04
1.1684	0.0029	0.024E-02	0.138E-04	1.5070	0.0043	0.132E-02	0.189E-04
1.1713	0.0029	0.076E-02	0.130E-04	1.5113	0.0043	0.139E-02	0.161E-04
1.1742	0.0030	0.022E-02	0.157E-04	1.5156	0.0043	0.146E-02	0.171E-04
1.1773	0.0030	0.034E-02	0.157E-04	1.5200	0.0044	0.155E-02	0.188E-04
1.1803	0.0030	0.101E-02	0.169E-04	1.5244	0.0044	0.161E-02	0.209E-04
1.1833	0.0030	0.103E-02	0.176E-04	1.5288	0.0044	0.166E-02	0.235E-04
1.1863	0.0030	0.071E-02	0.176E-04	1.5332	0.0044	0.165E-02	0.175E-04
1.1893	0.0030	0.090E-02	0.173E-04	1.5376	0.0044	0.163E-02	0.181E-04
1.1923	0.0030	0.050E-02	0.139E-04	1.5420	0.0045	0.161E-02	0.192E-04
1.1953	0.0030	0.050E-02	0.140E-04	1.5465	0.0045	0.158E-02	0.206E-04

TABLE 3. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)
1.5510	0.0045	0.152E-02	0.160E-04	2.0858	0.0070	0.152E-02	0.212E-04
1.5555	0.0045	0.141E-02	0.164E-04	2.0929	0.0070	0.155E-02	0.168E-04
1.5600	0.0045	0.131E-02	0.163E-04	2.0999	0.0071	0.152E-02	0.180E-04
1.5646	0.0046	0.122E-02	0.166E-04	2.1070	0.0071	0.146E-02	0.199E-04
1.5691	0.0046	0.119E-02	0.176E-04	2.1142	0.0072	0.135E-02	0.150E-04
1.5737	0.0046	0.123E-02	0.142E-04	2.1214	0.0072	0.131E-02	0.160E-04
1.5783	0.0046	0.131E-02	0.154E-04	2.1286	0.0072	0.132E-02	0.184E-04
1.5829	0.0046	0.139E-02	0.173E-04	2.1358	0.0073	0.137E-02	0.154E-04
1.5876	0.0047	0.144E-02	0.194E-04	2.1431	0.0073	0.139E-02	0.176E-04
1.5922	0.0047	0.147E-02	0.163E-04	2.1504	0.0073	0.140E-02	0.157E-04
1.5969	0.0047	0.147E-02	0.170E-04	2.1578	0.0074	0.138E-02	0.168E-04
1.6016	0.0047	0.150E-02	0.185E-04	2.1652	0.0074	0.138E-02	0.193E-04
1.6064	0.0047	0.156E-02	0.209E-04	2.1726	0.0075	0.135E-02	0.160E-04
1.6111	0.0048	0.163E-02	0.174E-04	2.1801	0.0075	0.135E-02	0.173E-04
1.6159	0.0048	0.164E-02	0.180E-04	2.1876	0.0075	0.136E-02	0.200E-04
1.6207	0.0048	0.157E-02	0.185E-04	2.1952	0.0076	0.143E-02	0.159E-04
1.6255	0.0048	0.150E-02	0.194E-04	2.2028	0.0076	0.143E-02	0.181E-04
1.6303	0.0048	0.140E-02	0.154E-04	2.2104	0.0077	0.141E-02	0.162E-04
1.6352	0.0049	0.133E-02	0.152E-04	2.2181	0.0077	0.137E-02	0.169E-04
1.6401	0.0049	0.134E-02	0.161E-04	2.2258	0.0077	0.129E-02	0.187E-04
1.6450	0.0049	0.142E-02	0.183E-04	2.2335	0.0078	0.125E-02	0.154E-04
1.6499	0.0049	0.154E-02	0.216E-04	2.2413	0.0078	0.123E-02	0.167E-04
1.6548	0.0050	0.163E-02	0.172E-04	2.2491	0.0079	0.127E-02	0.199E-04
1.6598	0.0050	0.164E-02	0.184E-04	2.2570	0.0079	0.133E-02	0.161E-04
1.6648	0.0050	0.155E-02	0.193E-04	2.2649	0.0079	0.136E-02	0.189E-04
1.6698	0.0050	0.146E-02	0.205E-04	2.2729	0.0080	0.143E-02	0.170E-04
1.6748	0.0050	0.137E-02	0.152E-04	2.2809	0.0080	0.146E-02	0.192E-04
1.6799	0.0051	0.133E-02	0.157E-04	2.2889	0.0081	0.154E-02	0.237E-04
1.6849	0.0051	0.133E-02	0.172E-04	2.2970	0.0081	0.157E-02	0.182E-04
1.6901	0.0051	0.140E-02	0.151E-04	2.3052	0.0082	0.159E-02	0.216E-04
1.6952	0.0051	0.144E-02	0.157E-04	2.3133	0.0082	0.161E-02	0.188E-04
1.7003	0.0052	0.141E-02	0.166E-04	2.3215	0.0082	0.160E-02	0.210E-04
1.7055	0.0052	0.134E-02	0.175E-04	2.3298	0.0083	0.155E-02	0.246E-04
1.7107	0.0052	0.125E-02	0.141E-04	2.3381	0.0083	0.148E-02	0.183E-04
1.7159	0.0052	0.121E-02	0.142E-04	2.3464	0.0084	0.140E-02	0.204E-04
1.7212	0.0053	0.120E-02	0.150E-04	2.3548	0.0084	0.136E-02	0.165E-04
1.7264	0.0053	0.125E-02	0.170E-04	2.3633	0.0085	0.140E-02	0.193E-04
1.7317	0.0053	0.134E-02	0.148E-04	2.3718	0.0085	0.152E-02	0.182E-04
1.7370	0.0053	0.140E-02	0.159E-04	2.3803	0.0086	0.164E-02	0.212E-04
1.7424	0.0054	0.151E-02	0.181E-04	2.3889	0.0086	0.165E-02	0.255E-04
1.7477	0.0054	0.156E-02	0.208E-04	2.3975	0.0086	0.157E-02	0.185E-04
1.7531	0.0054	0.160E-02	0.169E-04	2.4062	0.0087	0.148E-02	0.212E-04
1.7585	0.0054	0.160E-02	0.180E-04	2.4149	0.0087	0.142E-02	0.177E-04
1.7640	0.0055	0.156E-02	0.196E-04	2.4236	0.0088	0.142E-02	0.205E-04
1.7694	0.0055	0.150E-02	0.215E-04	2.4324	0.0088	0.146E-02	0.179E-04
1.7749	0.0055	0.138E-02	0.164E-04	2.4413	0.0089	0.144E-02	0.204E-04
1.7805	0.0055	0.127E-02	0.165E-04	2.4502	0.0089	0.147E-02	0.176E-04
1.7860	0.0056	0.119E-02	0.172E-04	2.4592	0.0090	0.149E-02	0.195E-04
1.7916	0.0056	0.115E-02	0.132E-04	2.4682	0.0090	0.152E-02	0.239E-04
1.7972	0.0056	0.113E-02	0.135E-04	2.4772	0.0091	0.157E-02	0.190E-04
1.8028	0.0056	0.113E-02	0.145E-04	2.4863	0.0091	0.157E-02	0.231E-04
1.8084	0.0057	0.112E-02	0.158E-04	2.4955	0.0092	0.156E-02	0.200E-04
1.8141	0.0057	0.119E-02	0.138E-04	2.5047	0.0092	0.152E-02	0.232E-04
1.8198	0.0057	0.128E-02	0.154E-04	2.5139	0.0093	0.154E-02	0.198E-04
1.8255	0.0057	0.135E-02	0.176E-04	2.5233	0.0093	0.147E-02	0.235E-04
1.8313	0.0058	0.139E-02	0.148E-04	2.5326	0.0094	0.156E-02	0.200E-04
1.8371	0.0058	0.139E-02	0.155E-04	2.5420	0.0094	0.153E-02	0.225E-04
1.8429	0.0058	0.138E-02	0.168E-04	2.5515	0.0095	0.150E-02	0.192E-04
1.8487	0.0059	0.143E-02	0.194E-04	2.5610	0.0095	0.148E-02	0.218E-04
1.8546	0.0059	0.147E-02	0.159E-04	2.5706	0.0096	0.141E-02	0.187E-04
1.8605	0.0059	0.153E-02	0.176E-04	2.5802	0.0097	0.130E-02	0.195E-04
1.8664	0.0059	0.161E-02	0.204E-04	2.5899	0.0097	0.124E-02	0.230E-04
1.8723	0.0060	0.155E-02	0.158E-04	2.5996	0.0098	0.125E-02	0.187E-04
1.8783	0.0060	0.160E-02	0.157E-04	2.6094	0.0098	0.129E-02	0.234E-04
1.8843	0.0060	0.123E-02	0.159E-04	2.6193	0.0099	0.132E-02	0.194E-04
1.8904	0.0061	0.113E-02	0.134E-04	2.6292	0.0099	0.131E-02	0.239E-04
1.8964	0.0061	0.113E-02	0.140E-04	2.6391	0.0100	0.134E-02	0.201E-04
1.9025	0.0061	0.122E-02	0.162E-04	2.6491	0.0100	0.136E-02	0.254E-04
1.9086	0.0061	0.131E-02	0.195E-04	2.6592	0.0101	0.136E-02	0.211E-04
1.9148	0.0062	0.137E-02	0.153E-04	2.6693	0.0102	0.134E-02	0.266E-04
1.9210	0.0062	0.143E-02	0.171E-04	2.6795	0.0102	0.129E-02	0.215E-04
1.9272	0.0062	0.145E-02	0.196E-04	2.6898	0.0103	0.128E-02	0.278E-04
1.9334	0.0063	0.145E-02	0.159E-04	2.7001	0.0103	0.132E-02	0.235E-04
1.9397	0.0063	0.143E-02	0.169E-04	2.7104	0.0104	0.141E-02	0.228E-04
1.9460	0.0063	0.137E-02	0.183E-04	2.7209	0.0105	0.145E-02	0.264E-04
1.9523	0.0064	0.135E-02	0.146E-04	2.7313	0.0105	0.147E-02	0.238E-04
1.9587	0.0064	0.135E-02	0.155E-04	2.7419	0.0106	0.141E-02	0.261E-04
1.9651	0.0064	0.137E-02	0.174E-04	2.7525	0.0106	0.134E-02	0.221E-04
1.9715	0.0064	0.143E-02	0.154E-04	2.7632	0.0107	0.131E-02	0.253E-04
1.9780	0.0065	0.154E-02	0.173E-04	2.7739	0.0108	0.130E-02	0.219E-04
1.9845	0.0065	0.159E-02	0.201E-04	2.7847	0.0108	0.128E-02	0.257E-04
1.9910	0.0065	0.162E-02	0.171E-04	2.7955	0.0109	0.126E-02	0.218E-04
1.9976	0.0066	0.164E-02	0.184E-04	2.8065	0.0110	0.129E-02	0.265E-04
2.0042	0.0066	0.163E-02	0.207E-04	2.8175	0.0110	0.129E-02	0.224E-04
2.0108	0.0066	0.162E-02	0.171E-04	2.8285	0.0111	0.130E-02	0.274E-04
2.0174	0.0067	0.160E-02	0.181E-04	2.8396	0.0111	0.129E-02	0.227E-04
2.0241	0.0067	0.158E-02	0.204E-04	2.8508	0.0112	0.124E-02	0.204E-04
2.0308	0.0067	0.152E-02	0.165E-04	2.8620	0.0113	0.122E-02	0.226E-04
2.0376	0.0068	0.142E-02	0.166E-04	2.8734	0.0113	0.125E-02	0.205E-04
2.0444	0.0068	0.140E-02	0.185E-04	2.8847	0.0114	0.131E-02	0.250E-04
2.0512	0.0068	0.143E-02	0.157E-04	2.8962	0.0115	0.134E-02	0.220E-04
2.0581	0.0069	0.151E-02	0.176E-04	2.9077	0.0116	0.132E-02	0.269E-04
2.0650	0.0069	0.152E-02	0.202E-04	2.9193	0.0116	0.131E-02	0.224E-04
2.0719	0.0069	0.151E-02	0.168E-04	2.9309	0.0117	0.130E-02	0.206E-04
2.0788	0.0070	0.150E-02	0.182E-04	2.9427	0.0118	0.130E-02	0.236E-04

TABLE 3. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)
2.9545	0.0118	0.127E-02	0.204E-04	4.5066	0.0223	0.134E-02	0.167E-04
2.9663	0.0119	0.128E-02	0.206E-04	4.5290	0.0225	0.132E-02	0.171E-04
2.9783	0.0120	0.131E-02	0.215E-04	4.5516	0.0227	0.131E-02	0.179E-04
2.9903	0.0120	0.139E-02	0.210E-04	4.5743	0.0228	0.130E-02	0.187E-04
3.0024	0.0121	0.138E-02	0.209E-04	4.5972	0.0230	0.127E-02	0.195E-04
3.0145	0.0122	0.135E-02	0.209E-04	4.6203	0.0232	0.128E-02	0.151E-04
3.0267	0.0123	0.126E-02	0.204E-04	4.6435	0.0233	0.130E-02	0.154E-04
3.0391	0.0123	0.119E-02	0.202E-04	4.6670	0.0235	0.130E-02	0.158E-04
3.0514	0.0124	0.120E-02	0.212E-04	4.6906	0.0237	0.129E-02	0.163E-04
3.0639	0.0125	0.124E-02	0.227E-04	4.7144	0.0239	0.129E-02	0.170E-04
3.0764	0.0126	0.126E-02	0.241E-04	4.7384	0.0241	0.126E-02	0.176E-04
3.0890	0.0126	0.125E-02	0.185E-04	4.7625	0.0242	0.126E-02	0.187E-04
3.1017	0.0127	0.126E-02	0.187E-04	4.7868	0.0244	0.128E-02	0.148E-04
3.1145	0.0128	0.127E-02	0.190E-04	4.8114	0.0246	0.128E-02	0.150E-04
3.1273	0.0129	0.132E-02	0.196E-04	4.8361	0.0248	0.128E-02	0.154E-04
3.1403	0.0130	0.130E-02	0.197E-04	4.8610	0.0250	0.126E-02	0.158E-04
3.1533	0.0130	0.127E-02	0.198E-04	4.8861	0.0252	0.126E-02	0.166E-04
3.1664	0.0131	0.127E-02	0.202E-04	4.9114	0.0254	0.127E-02	0.178E-04
3.1795	0.0132	0.121E-02	0.201E-04	4.9369	0.0256	0.129E-02	0.191E-04
3.1928	0.0133	0.121E-02	0.205E-04	4.9626	0.0258	0.128E-02	0.147E-04
3.2061	0.0134	0.117E-02	0.206E-04	4.9885	0.0260	0.129E-02	0.151E-04
3.2195	0.0135	0.113E-02	0.205E-04	5.0146	0.0262	0.129E-02	0.156E-04
3.2330	0.0135	0.109E-02	0.207E-04	5.0409	0.0264	0.131E-02	0.166E-04
3.2466	0.0136	0.107E-02	0.210E-04	5.0674	0.0266	0.130E-02	0.175E-04
3.2603	0.0137	0.110E-02	0.164E-04	5.0942	0.0268	0.131E-02	0.188E-04
3.2741	0.0138	0.111E-02	0.164E-04	5.1211	0.0269	0.133E-02	0.203E-04
3.2879	0.0139	0.112E-02	0.168E-04	5.1482	0.0273	0.132E-02	0.152E-04
3.3019	0.0140	0.114E-02	0.172E-04	5.1756	0.0275	0.133E-02	0.157E-04
3.3159	0.0141	0.117E-02	0.177E-04	5.2032	0.0277	0.134E-02	0.165E-04
3.3300	0.0142	0.117E-02	0.182E-04	5.2310	0.0279	0.133E-02	0.174E-04
3.3442	0.0143	0.119E-02	0.188E-04	5.2591	0.0281	0.132E-02	0.187E-04
3.3585	0.0143	0.120E-02	0.195E-04	5.2873	0.0284	0.132E-02	0.199E-04
3.3729	0.0144	0.119E-02	0.199E-04	5.3158	0.0286	0.131E-02	0.150E-04
3.3874	0.0145	0.118E-02	0.204E-04	5.3445	0.0288	0.134E-02	0.157E-04
3.4020	0.0146	0.117E-02	0.209E-04	5.3735	0.0291	0.136E-02	0.165E-04
3.4166	0.0147	0.115E-02	0.215E-04	5.4027	0.0293	0.136E-02	0.177E-04
3.4314	0.0148	0.116E-02	0.165E-04	5.4321	0.0296	0.135E-02	0.188E-04
3.4462	0.0149	0.120E-02	0.188E-04	5.4618	0.0298	0.135E-02	0.203E-04
3.4612	0.0150	0.123E-02	0.173E-04	5.4917	0.0300	0.136E-02	0.153E-04
3.4763	0.0151	0.123E-02	0.175E-04	5.5219	0.0303	0.133E-02	0.156E-04
3.4914	0.0152	0.117E-02	0.173E-04	5.5523	0.0305	0.134E-02	0.165E-04
3.5067	0.0153	0.114E-02	0.174E-04	5.5830	0.0308	0.134E-02	0.178E-04
3.5220	0.0154	0.115E-02	0.179E-04	5.6139	0.0311	0.135E-02	0.192E-04
3.5375	0.0155	0.116E-02	0.187E-04	5.6451	0.0313	0.133E-02	0.149E-04
3.5530	0.0156	0.117E-02	0.194E-04	5.6765	0.0316	0.133E-02	0.152E-04
3.5687	0.0157	0.122E-02	0.208E-04	5.7082	0.0318	0.133E-02	0.158E-04
3.5845	0.0158	0.127E-02	0.223E-04	5.7402	0.0321	0.134E-02	0.169E-04
3.6003	0.0159	0.126E-02	0.168E-04	5.7725	0.0324	0.134E-02	0.182E-04
3.6163	0.0160	0.126E-02	0.169E-04	5.8050	0.0327	0.131E-02	0.194E-04
3.6324	0.0161	0.127E-02	0.172E-04	5.8378	0.0329	0.131E-02	0.147E-04
3.6486	0.0162	0.129E-02	0.177E-04	5.8709	0.0332	0.132E-02	0.154E-04
3.6649	0.0164	0.129E-02	0.180E-04	5.9042	0.0335	0.133E-02	0.165E-04
3.6813	0.0165	0.132E-02	0.189E-04	5.9379	0.0338	0.134E-02	0.180E-04
3.6970	0.0166	0.131E-02	0.194E-04	5.9718	0.0341	0.133E-02	0.196E-04
3.7145	0.0167	0.130E-02	0.200E-04	6.0060	0.0344	0.132E-02	0.147E-04
3.7312	0.0168	0.124E-02	0.200E-04	6.0405	0.0347	0.131E-02	0.153E-04
3.7481	0.0169	0.121E-02	0.205E-04	6.0754	0.0350	0.130E-02	0.162E-04
3.7650	0.0170	0.119E-02	0.157E-04	6.1105	0.0353	0.130E-02	0.175E-04
3.7821	0.0171	0.121E-02	0.159E-04	6.1459	0.0356	0.130E-02	0.143E-04
3.7993	0.0173	0.124E-02	0.163E-04	6.1817	0.0359	0.130E-02	0.145E-04
3.8167	0.0174	0.126E-02	0.168E-04	6.2177	0.0362	0.129E-02	0.151E-04
3.8341	0.0175	0.125E-02	0.171E-04	6.2541	0.0365	0.130E-02	0.163E-04
3.8517	0.0176	0.121E-02	0.172E-04	6.2908	0.0369	0.131E-02	0.170E-04
3.8693	0.0177	0.121E-02	0.178E-04	6.3278	0.0372	0.132E-02	0.143E-04
3.8872	0.0179	0.123E-02	0.187E-04	6.3652	0.0375	0.131E-02	0.147E-04
3.9051	0.0180	0.123E-02	0.196E-04	6.4028	0.0378	0.131E-02	0.155E-04
3.9231	0.0181	0.121E-02	0.201E-04	6.4404	0.0382	0.131E-02	0.169E-04
3.9413	0.0182	0.122E-02	0.155E-04	6.4792	0.0385	0.132E-02	0.187E-04
3.9596	0.0184	0.124E-02	0.157E-04	6.5179	0.0389	0.130E-02	0.142E-04
3.9781	0.0185	0.123E-02	0.159E-04	6.5570	0.0392	0.129E-02	0.148E-04
3.9966	0.0186	0.123E-02	0.162E-04	6.5964	0.0396	0.129E-02	0.160E-04
4.0153	0.0188	0.125E-02	0.169E-04	6.6362	0.0399	0.129E-02	0.176E-04
4.0342	0.0189	0.128E-02	0.178E-04	6.6763	0.0403	0.129E-02	0.140E-04
4.0531	0.0190	0.130E-02	0.187E-04	6.7168	0.0407	0.129E-02	0.145E-04
4.0722	0.0192	0.128E-02	0.194E-04	6.7576	0.0410	0.128E-02	0.155E-04
4.0914	0.0193	0.128E-02	0.203E-04	6.7989	0.0414	0.129E-02	0.172E-04
4.1108	0.0194	0.131E-02	0.158E-04	6.8405	0.0418	0.129E-02	0.138E-04
4.1303	0.0196	0.129E-02	0.158E-04	6.8825	0.0422	0.131E-02	0.145E-04
4.1499	0.0197	0.128E-02	0.161E-04	6.9249	0.0426	0.129E-02	0.154E-04
4.1697	0.0199	0.126E-02	0.164E-04	6.9677	0.0430	0.128E-02	0.169E-04
4.1897	0.0200	0.129E-02	0.173E-04	7.0109	0.0434	0.126E-02	0.135E-04
4.2097	0.0201	0.130E-02	0.181E-04	7.0545	0.0438	0.126E-02	0.141E-04
4.2299	0.0203	0.128E-02	0.190E-04	7.0985	0.0442	0.127E-02	0.153E-04
4.2503	0.0204	0.130E-02	0.202E-04	7.1429	0.0446	0.125E-02	0.168E-04
4.2708	0.0206	0.129E-02	0.212E-04	7.1877	0.0450	0.125E-02	0.135E-04
4.2915	0.0207	0.128E-02	0.157E-04	7.2330	0.0455	0.124E-02	0.141E-04
4.3123	0.0209	0.124E-02	0.156E-04	7.2786	0.0459	0.127E-02	0.157E-04
4.3333	0.0210	0.123E-02	0.159E-04	7.3248	0.0463	0.126E-02	0.175E-04
4.3548	0.0212	0.122E-02	0.163E-04	7.3713	0.0468	0.126E-02	0.137E-04
4.3756	0.0213	0.122E-02	0.171E-04	7.4184	0.0472	0.125E-02	0.145E-04
4.3971	0.0215	0.123E-02	0.180E-04	7.4658	0.0477	0.126E-02	0.161E-04
4.4186	0.0217	0.124E-02	0.191E-04	7.5138	0.0482	0.126E-02	0.134E-04
4.4404	0.0218	0.127E-02	0.206E-04	7.5621	0.0486	0.125E-02	0.130E-04
4.4623	0.0220	0.130E-02	0.157E-04	7.6110	0.0491	0.122E-02	0.148E-04
4.4844	0.0222	0.132E-02	0.161E-04	7.6603	0.0496	0.122E-02	0.165E-04

TABLE 3. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC.NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC.NEUT.	ERROR (ABS)
7.7102	0.0501	0.119E-02	0.129E-04	11.9010	0.0963	0.114E-02	0.150E-04
7.7605	0.0506	0.119E-02	0.137E-04	11.9980	0.0975	0.112E-02	0.128E-04
7.8113	0.0511	0.118E-02	0.151E-04	12.0960	0.0987	0.110E-02	0.119E-04
7.8626	0.0516	0.117E-02	0.124E-04	12.1950	0.0999	0.112E-02	0.136E-04
7.9184	0.0525	0.117E-02	0.131E-04	12.2960	0.1012	0.112E-02	0.125E-04
7.9668	0.0526	0.118E-02	0.145E-04	12.3980	0.1025	0.113E-02	0.150E-04
8.0196	0.0531	0.117E-02	0.123E-04	12.5010	0.1037	0.114E-02	0.135E-04
8.0730	0.0537	0.116E-02	0.127E-04	12.6050	0.1051	0.116E-02	0.131E-04
8.1269	0.0542	0.117E-02	0.141E-04	12.7110	0.1064	0.116E-02	0.149E-04
8.1814	0.0547	0.117E-02	0.160E-04	12.8180	0.1077	0.118E-02	0.137E-04
8.2364	0.0553	0.117E-02	0.127E-04	12.9260	0.1091	0.118E-02	0.169E-04
8.2920	0.0559	0.119E-02	0.142E-04	13.0360	0.1105	0.120E-02	0.150E-04
8.3482	0.0564	0.121E-02	0.165E-04	13.1470	0.1120	0.120E-02	0.138E-04
8.4049	0.0570	0.119E-02	0.129E-04	13.2600	0.1134	0.120E-02	0.167E-04
8.4622	0.0576	0.119E-02	0.143E-04	13.3740	0.1149	0.120E-02	0.150E-04
8.5201	0.0582	0.119E-02	0.164E-04	13.4900	0.1164	0.122E-02	0.142E-04
8.5786	0.0588	0.118E-02	0.130E-04	13.6070	0.1179	0.122E-02	0.178E-04
8.6377	0.0594	0.118E-02	0.144E-04	13.7260	0.1195	0.124E-02	0.160E-04
8.6974	0.0600	0.118E-02	0.125E-04	13.8460	0.1211	0.125E-02	0.149E-04
8.7578	0.0607	0.118E-02	0.130E-04	13.9680	0.1227	0.127E-02	0.146E-04
8.8187	0.0613	0.117E-02	0.144E-04	14.0910	0.1243	0.128E-02	0.174E-04
8.8804	0.0619	0.115E-02	0.122E-04	14.2170	0.1260	0.127E-02	0.158E-04
8.9426	0.0626	0.113E-02	0.128E-04	14.3430	0.1277	0.128E-02	0.149E-04
9.0056	0.0633	0.113E-02	0.144E-04	14.4720	0.1294	0.128E-02	0.191E-04
9.0692	0.0639	0.111E-02	0.118E-04	14.6020	0.1312	0.127E-02	0.173E-04
9.1334	0.0646	0.110E-02	0.128E-04	14.7340	0.1330	0.127E-02	0.161E-04
9.1984	0.0653	0.108E-02	0.144E-04	14.8680	0.1348	0.127E-02	0.154E-04
9.2641	0.0660	0.109E-02	0.118E-04	15.0040	0.1367	0.131E-02	0.154E-04
9.3305	0.0667	0.108E-02	0.133E-04	15.1420	0.1386	0.131E-02	0.197E-04
9.3976	0.0675	0.108E-02	0.114E-04	15.2810	0.1405	0.132E-02	0.188E-04
9.4654	0.0682	0.108E-02	0.125E-04	15.4230	0.1425	0.134E-02	0.179E-04
9.5340	0.0689	0.110E-02	0.147E-04	15.5660	0.1445	0.135E-02	0.172E-04
9.6033	0.0697	0.110E-02	0.121E-04	15.7120	0.1466	0.136E-02	0.168E-04
9.6734	0.0705	0.110E-02	0.137E-04	15.8600	0.1487	0.136E-02	0.164E-04
9.7442	0.0712	0.111E-02	0.118E-04	16.0090	0.1508	0.134E-02	0.162E-04
9.8159	0.0720	0.110E-02	0.130E-04	16.1610	0.1529	0.135E-02	0.208E-04
9.8883	0.0728	0.110E-02	0.117E-04	16.3150	0.1552	0.135E-02	0.202E-04
9.9616	0.0737	0.112E-02	0.127E-04	16.4720	0.1574	0.137E-02	0.198E-04
10.0360	0.0745	0.113E-02	0.150E-04	16.6300	0.1597	0.138E-02	0.196E-04
10.1110	0.0753	0.113E-02	0.125E-04	16.7910	0.1621	0.137E-02	0.191E-04
10.1860	0.0762	0.115E-02	0.145E-04	16.9540	0.1645	0.139E-02	0.192E-04
10.2630	0.0770	0.115E-02	0.125E-04	17.1200	0.1669	0.139E-02	0.192E-04
10.3400	0.0779	0.115E-02	0.141E-04	17.2880	0.1694	0.142E-02	0.197E-04
10.4190	0.0788	0.116E-02	0.123E-04	17.4590	0.1719	0.145E-02	0.202E-04
10.4980	0.0797	0.115E-02	0.136E-04	17.6320	0.1745	0.147E-02	0.208E-04
10.5780	0.0806	0.113E-02	0.120E-04	17.8080	0.1771	0.149E-02	0.214E-04
10.6590	0.0816	0.113E-02	0.131E-04	17.9860	0.1798	0.151E-02	0.221E-04
10.7410	0.0825	0.112E-02	0.117E-04	18.1670	0.1826	0.149E-02	0.225E-04
10.8240	0.0835	0.111E-02	0.127E-04	18.3510	0.1854	0.149E-02	0.235E-04
10.9080	0.0845	0.111E-02	0.116E-04	18.5380	0.1883	0.153E-02	0.252E-04
10.9930	0.0855	0.110E-02	0.126E-04	18.7280	0.1912	0.154E-02	0.200E-04
11.0790	0.0865	0.111E-02	0.117E-04	18.9210	0.1942	0.153E-02	0.203E-04
11.1660	0.0875	0.112E-02	0.129E-04	19.1160	0.1972	0.156E-02	0.213E-04
11.2540	0.0885	0.112E-02	0.119E-04	19.3150	0.2003	0.155E-02	0.223E-04
11.3430	0.0896	0.113E-02	0.134E-04	19.5170	0.2035	0.157E-02	0.242E-04
11.4330	0.0907	0.114E-02	0.122E-04	19.7220	0.2068	0.157E-02	0.266E-04
11.5250	0.0918	0.113E-02	0.139E-04	19.9310	0.2101	0.157E-02	0.297E-04
11.6170	0.0929	0.114E-02	0.125E-04	20.1430	0.2135	0.156E-02	0.503E-04
11.7100	0.0940	0.115E-02	0.147E-04	20.1430	0.2135	0.156E-02	0.503E-04
11.8050	0.0952	0.116E-02	0.129E-04	20.3580	0.2170	0.156E-02	0.756E-04

TABLE 4.

SECONDARY NEUTRON SPECTRA FOR A SCATTERING ANGLE OF APPROXIMATELY 90 DEGREES. THE VALUES GIVEN ARE THE LOWER AND UPPER LIMITS OF THE 68% CONFIDENCE INTERVAL FOR THE FLUX AT THE DETECTOR POSITION. THEY REPRESENT THE SECONDARY FLUX AS AVERAGED OVER THE AREA OF THE PROJECTION OF THE DETECTOR IN THE DIRECTION OF A POINT ON THE SCATTERING RING. THE DATA ARE NORMALIZED TO UNIT INCIDENT NEUTRON.

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 18.076 TO 20.036 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.537E-04	0.771E-04	4.898	0.100E-04	0.137E-04	9.907	0.181E-05	0.423E-05
0.910	0.694E-04	0.804E-04	5.093	0.981E-05	0.138E-04	10.209	0.192E-05	0.411E-05
1.010	0.726E-04	0.803E-04	5.301	0.955E-05	0.131E-04	10.599	0.175E-05	0.377E-05
1.110	0.758E-04	0.857E-04	5.505	0.861E-05	0.115E-04	10.973	0.141E-05	0.367E-05
1.209	0.747E-04	0.840E-04	5.690	0.749E-05	0.102E-04	11.412	0.122E-05	0.351E-05
1.309	0.697E-04	0.781E-04	5.885	0.661E-05	0.914E-05	11.828	0.124E-05	0.337E-05
1.410	0.648E-04	0.743E-04	6.090	0.610E-05	0.877E-05	12.219	0.881E-06	0.287E-05
1.510	0.624E-04	0.707E-04	6.305	0.590E-05	0.877E-05	12.629	0.332E-06	0.229E-05
1.609	0.592E-04	0.670E-04	6.513	0.573E-05	0.825E-05	13.005	-0.105E-06	0.168E-05
1.708	0.576E-04	0.649E-04	6.712	0.513E-05	0.782E-05	13.400	-0.953E-07	0.156E-05
1.808	0.569E-04	0.638E-04	6.897	0.439E-05	0.732E-05	13.810	0.392E-06	0.231E-05
1.931	0.532E-04	0.590E-04	7.092	0.400E-05	0.671E-05	14.179	0.110E-05	0.211E-05
2.102	0.450E-04	0.514E-04	7.294	0.366E-05	0.632E-05	14.563	0.196E-05	0.359E-05
2.302	0.433E-04	0.501E-04	7.482	0.334E-05	0.586E-05	14.962	0.210E-05	0.360E-05
2.500	0.410E-04	0.461E-04	7.677	0.290E-05	0.529E-05	15.378	0.172E-05	0.328E-05
2.699	0.367E-04	0.426E-04	7.879	0.245E-05	0.470E-05	15.813	0.139E-05	0.293E-05
2.900	0.331E-04	0.385E-04	8.090	0.213E-05	0.445E-05	16.426	0.203E-05	0.356E-05
3.099	0.285E-04	0.332E-04	8.309	0.215E-05	0.451E-05	17.238	0.501E-05	0.624E-05
3.298	0.253E-04	0.296E-04	8.508	0.224E-05	0.464E-05	18.019	0.737E-05	0.836E-05
3.494	0.222E-04	0.274E-04	8.685	0.232E-05	0.482E-05	18.761	0.740E-05	0.829E-05
3.700	0.215E-04	0.260E-04	8.899	0.232E-05	0.490E-05	19.551	0.565E-05	0.640E-05
3.907	0.218E-04	0.255E-04	9.119	0.224E-05	0.474E-05	20.506	0.303E-05	0.358E-05
4.102	0.202E-04	0.238E-04	9.316	0.227E-05	0.461E-05	21.525	0.112E-05	0.144E-05
4.303	0.162E-04	0.205E-04	9.518	0.216E-05	0.423E-05	22.500	0.258E-06	0.436E-06
4.507	0.129E-04	0.167E-04	9.728	0.188E-05	0.421E-05	23.545	-0.360E-07	0.683E-07
4.702	0.110E-04	0.145E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 15.934 TO 18.076 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.494E-04	0.704E-04	4.898	0.879E-05	0.119E-04	9.907	0.117E-05	0.348E-05
0.910	0.690E-04	0.783E-04	5.093	0.801E-05	0.114E-04	10.209	0.140E-05	0.351E-05
1.010	0.707E-04	0.772E-04	5.301	0.755E-05	0.106E-04	10.599	0.172E-05	0.354E-05
1.110	0.671E-04	0.751E-04	5.505	0.690E-05	0.943E-05	10.973	0.112E-05	0.319E-05
1.209	0.679E-04	0.736E-04	5.690	0.638E-05	0.864E-05	11.412	0.126E-05	0.343E-05
1.309	0.683E-04	0.756E-04	5.885	0.576E-05	0.781E-05	11.828	0.989E-06	0.300E-05
1.410	0.646E-04	0.728E-04	6.090	0.508E-05	0.730E-05	12.219	0.118E-05	0.280E-05
1.510	0.606E-04	0.674E-04	6.305	0.450E-05	0.695E-05	12.629	0.149E-05	0.297E-05
1.609	0.566E-04	0.627E-04	6.513	0.440E-05	0.670E-05	13.005	0.156E-05	0.298E-05
1.708	0.532E-04	0.592E-04	6.712	0.428E-05	0.659E-05	13.400	0.152E-05	0.287E-05
1.808	0.501E-04	0.556E-04	6.897	0.397E-05	0.671E-05	13.810	0.162E-05	0.312E-05
1.931	0.467E-04	0.507E-04	7.092	0.392E-05	0.640E-05	14.179	0.215E-05	0.367E-05
2.102	0.409E-04	0.463E-04	7.294	0.371E-05	0.612E-05	14.563	0.325E-05	0.450E-05
2.302	0.378E-04	0.432E-04	7.482	0.346E-05	0.566E-05	14.962	0.469E-05	0.586E-05
2.500	0.363E-04	0.400E-04	7.677	0.312E-05	0.515E-05	15.378	0.612E-05	0.725E-05
2.699	0.322E-04	0.380E-04	7.879	0.283E-05	0.473E-05	15.813	0.723E-05	0.825E-05
2.900	0.292E-04	0.334E-04	8.090	0.256E-05	0.447E-05	16.426	0.755E-05	0.845E-05
3.099	0.258E-04	0.297E-04	8.309	0.233E-05	0.443E-05	17.238	0.594E-05	0.664E-05
3.298	0.231E-04	0.264E-04	8.508	0.208E-05	0.430E-05	18.019	0.365E-05	0.415E-05
3.494	0.190E-04	0.238E-04	8.685	0.191E-05	0.427E-05	18.761	0.183E-05	0.218E-05
3.700	0.183E-04	0.219E-04	8.899	0.177E-05	0.414E-05	19.551	0.443E-06	0.609E-06
3.907	0.179E-04	0.207E-04	9.119	0.156E-05	0.393E-05	20.506	0.672E-07	0.210E-06
4.102	0.146E-04	0.194E-04	9.316	0.139E-05	0.312E-05	21.525	-0.772E-07	0.633E-09
4.303	0.140E-04	0.176E-04	9.518	0.152E-05	0.357E-05	22.500	-0.727E-07	-0.265E-07
4.507	0.118E-04	0.149E-04	9.728	0.128E-05	0.344E-05	23.545	-0.511E-07	-0.798E-08
4.702	0.102E-04	0.130E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 14.936 TO 15.934 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.568E-04	0.775E-04	4.898	0.865E-05	0.122E-04	9.907	0.872E-06	0.344E-05
0.910	0.718E-04	0.818E-04	5.093	0.781E-05	0.117E-04	10.209	0.636E-06	0.295E-05
1.010	0.714E-04	0.784E-04	5.301	0.712E-05	0.106E-04	10.599	0.108E-05	0.312E-05
1.110	0.673E-04	0.760E-04	5.505	0.656E-05	0.949E-05	10.973	0.148E-05	0.386E-05
1.209	0.619E-04	0.704E-04	5.690	0.628E-05	0.898E-05	11.412	0.142E-05	0.378E-05
1.309	0.591E-04	0.672E-04	5.885	0.627E-05	0.868E-05	11.828	0.103E-05	0.313E-05
1.410	0.568E-04	0.655E-04	6.090	0.605E-05	0.879E-05	12.219	0.111E-05	0.292E-05
1.510	0.555E-04	0.628E-04	6.305	0.556E-05	0.845E-05	12.629	0.206E-05	0.386E-05
1.609	0.537E-04	0.605E-04	6.513	0.515E-05	0.779E-05	13.005	0.361E-05	0.526E-05
1.708	0.515E-04	0.582E-04	6.712	0.451E-05	0.725E-05	13.400	0.542E-05	0.692E-05
1.808	0.477E-04	0.538E-04	6.897	0.369E-05	0.687E-05	13.810	0.701E-05	0.848E-05
1.931	0.418E-04	0.470E-04	7.092	0.325E-05	0.615E-05	14.179	0.799E-05	0.944E-05
2.102	0.360E-04	0.420E-04	7.294	0.275E-05	0.555E-05	14.563	0.844E-05	0.971E-05
2.302	0.339E-04	0.400E-04	7.482	0.237E-05	0.496E-05	14.962	0.814E-05	0.917E-05
2.500	0.325E-04	0.369E-04	7.677	0.197E-05	0.439E-05	15.378	0.703E-05	0.795E-05
2.699	0.288E-04	0.339E-04	7.879	0.180E-05	0.404E-05	15.813	0.541E-05	0.623E-05
2.900	0.248E-04	0.294E-04	8.090	0.194E-05	0.419E-05	16.426	0.313E-05	0.377E-05
3.099	0.224E-04	0.265E-04	8.309	0.227E-05	0.480E-05	17.238	0.105E-05	0.147E-05
3.298	0.208E-04	0.248E-04	8.508	0.282E-05	0.546E-05	18.019	0.172E-06	0.456E-06
3.494	0.187E-04	0.233E-04	8.685	0.326E-05	0.596E-05	18.761	-0.864E-07	0.117E-06
3.700	0.167E-04	0.208E-04	8.899	0.358E-05	0.631E-05	19.551	-0.133E-06	0.211E-07
3.907	0.150E-04	0.183E-04	9.119	0.355E-05	0.610E-05	20.506	-0.104E-06	0.163E-07
4.102	0.135E-04	0.166E-04	9.316	0.319E-05	0.545E-05	21.525	-0.916E-07	0.546E-07
4.303	0.116E-04	0.150E-04	9.518	0.250E-05	0.461E-05	22.500	-0.101E-06	0.718E-07
4.507	0.106E-04	0.144E-04	9.728	0.156E-05	0.393E-05	23.545	-0.863E-07	0.106E-06
4.702	0.967E-05	0.130E-04						

TABLE 4. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 14.029 TO 14.936 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.585E-04	0.789E-04	4.898	0.871E-05	0.122E-04	9.907	0.100E-05	0.429E-05
0.910	0.684E-04	0.782E-04	5.093	0.843E-05	0.123E-04	10.209	0.157E-05	0.401E-05
1.010	0.677E-04	0.741E-04	5.301	0.820E-05	0.117E-04	10.599	0.123E-05	0.322E-05
1.110	0.664E-04	0.746E-04	5.505	0.743E-05	0.103E-04	10.973	0.701E-06	0.299E-05
1.209	0.626E-04	0.706E-04	5.690	0.641E-05	0.902E-05	11.412	0.941E-06	0.324E-05
1.309	0.566E-04	0.642E-04	5.885	0.549E-05	0.781E-05	11.828	0.222E-05	0.412E-05
1.410	0.524E-04	0.603E-04	6.090	0.483E-05	0.730E-05	12.219	0.371E-05	0.541E-05
1.510	0.505E-04	0.572E-04	6.305	0.471E-05	0.743E-05	12.629	0.531E-05	0.690E-05
1.609	0.472E-04	0.536E-04	6.513	0.511E-05	0.777E-05	13.005	0.678E-05	0.822E-05
1.708	0.420E-04	0.481E-04	6.712	0.521E-05	0.785E-05	13.400	0.815E-05	0.935E-05
1.808	0.364E-04	0.418E-04	6.897	0.478E-05	0.794E-05	13.810	0.883E-05	0.999E-05
1.931	0.348E-04	0.398E-04	7.092	0.439E-05	0.725E-05	14.179	0.863E-05	0.972E-05
2.102	0.175E-04	0.427E-04	7.294	0.365E-05	0.642E-05	14.563	0.757E-05	0.853E-05
2.302	0.337E-04	0.392E-04	7.482	0.295E-05	0.551E-05	14.962	0.588E-05	0.664E-05
2.500	0.301E-04	0.342E-04	7.677	0.230E-05	0.463E-05	15.378	0.396E-05	0.455E-05
2.699	0.267E-04	0.314E-04	7.879	0.194E-05	0.401E-05	15.813	0.226E-05	0.275E-05
2.900	0.224E-04	0.269E-04	8.090	0.181E-05	0.400E-05	16.426	0.742E-06	0.109E-05
3.099	0.198E-04	0.236E-04	8.309	0.194E-05	0.438E-05	17.238	-0.411E-08	0.200E-06
3.298	0.191E-04	0.228E-04	8.508	0.224E-05	0.482E-05	18.019	-0.119E-06	0.188E-07
3.494	0.183E-04	0.228E-04	8.685	0.248E-05	0.520E-05	18.761	-0.983E-07	0.798E-08
3.700	0.179E-04	0.220E-04	8.899	0.258E-05	0.536E-05	19.551	-0.723E-07	0.645E-08
3.907	0.178E-04	0.210E-04	9.119	0.266E-05	0.517E-05	20.506	-0.769E-07	-0.123E-08
4.102	0.160E-04	0.191E-04	9.316	0.261E-05	0.471E-05	21.525	-0.838E-07	0.133E-07
4.303	0.126E-04	0.168E-04	9.518	0.248E-05	0.443E-05	22.500	-0.936E-07	0.806E-08
4.507	0.105E-04	0.142E-04	9.728	0.203E-05	0.436E-05	23.545	-0.783E-07	0.342E-07
4.702	0.946E-05	0.128E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 12.981 TO 14.029 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.399E-04	0.581E-04	4.898	0.104E-04	0.138E-04	9.907	0.171E-05	0.365E-05
0.910	0.592E-04	0.683E-04	5.093	0.978E-05	0.135E-04	10.209	0.220E-05	0.415E-05
1.010	0.632E-04	0.688E-04	5.301	0.903E-05	0.124E-04	10.599	0.295E-05	0.464E-05
1.110	0.599E-04	0.673E-04	5.505	0.799E-05	0.108E-04	10.973	0.362E-05	0.519E-05
1.209	0.595E-04	0.611E-04	5.690	0.686E-05	0.930E-05	11.412	0.476E-05	0.624E-05
1.309	0.504E-04	0.570E-04	5.885	0.573E-05	0.790E-05	11.828	0.630E-05	0.759E-05
1.410	0.489E-04	0.556E-04	6.090	0.495E-05	0.721E-05	12.219	0.776E-05	0.911E-05
1.510	0.490E-04	0.546E-04	6.305	0.479E-05	0.730E-05	12.629	0.869E-05	0.974E-05
1.609	0.466E-04	0.516E-04	6.513	0.524E-05	0.762E-05	13.005	0.860E-05	0.955E-05
1.708	0.415E-04	0.466E-04	6.712	0.527E-05	0.773E-05	13.400	0.756E-05	0.834E-05
1.808	0.363E-04	0.412E-04	6.897	0.457E-05	0.751E-05	13.810	0.582E-05	0.645E-05
1.931	0.332E-04	0.375E-04	7.092	0.391E-05	0.667E-05	14.179	0.418E-05	0.471E-05
2.102	0.327E-04	0.370E-04	7.294	0.332E-05	0.604E-05	14.563	0.268E-05	0.313E-05
2.302	0.321E-04	0.370E-04	7.482	0.325E-05	0.570E-05	14.962	0.152E-05	0.188E-05
2.500	0.298E-04	0.335E-04	7.677	0.350E-05	0.564E-05	15.378	0.740E-06	0.101E-05
2.699	0.259E-04	0.300E-04	7.879	0.392E-05	0.574E-05	15.813	0.284E-06	0.480E-06
2.900	0.250E-04	0.292E-04	8.090	0.407E-05	0.598E-05	16.426	-0.556E-08	0.123E-06
3.099	0.250E-04	0.285E-04	8.309	0.385E-05	0.594E-05	17.238	-0.102E-06	-0.220E-07
3.298	0.226E-04	0.260E-04	8.508	0.328E-05	0.555E-05	18.019	-0.105E-06	-0.426E-07
3.494	0.197E-04	0.237E-04	8.685	0.255E-05	0.498E-05	18.761	-0.888E-07	-0.335E-07
3.700	0.169E-04	0.206E-04	8.899	0.172E-05	0.419E-05	19.551	-0.685E-07	-0.162E-07
3.907	0.148E-04	0.178E-04	9.119	0.122E-05	0.341E-05	20.506	-0.419E-07	0.194E-08
4.102	0.132E-04	0.161E-04	9.316	0.119E-05	0.296E-05	21.525	-0.178E-07	0.159E-07
4.303	0.117E-04	0.157E-04	9.518	0.135E-05	0.284E-05	22.500	-0.129E-07	0.264E-07
4.507	0.114E-04	0.148E-04	9.728	0.150E-05	0.325E-05	23.545	-0.934E-08	0.356E-07
4.702	0.112E-04	0.144E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 12.046 TO 12.981 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.439E-04	0.609E-04	4.898	0.946E-05	0.128E-04	9.907	0.203E-05	0.400E-05
0.910	0.551E-04	0.639E-04	5.093	0.825E-05	0.118E-04	10.209	0.276E-05	0.469E-05
1.010	0.540E-04	0.593E-04	5.301	0.793E-05	0.112E-04	10.599	0.456E-05	0.622E-05
1.110	0.522E-04	0.593E-04	5.505	0.793E-05	0.107E-04	10.973	0.673E-05	0.835E-05
1.209	0.488E-04	0.553E-04	5.690	0.771E-05	0.101E-04	11.412	0.909E-05	0.106E-04
1.309	0.451E-04	0.516E-04	5.885	0.703E-05	0.917E-05	11.828	0.989E-05	0.110E-04
1.410	0.432E-04	0.496E-04	6.090	0.596E-05	0.825E-05	12.219	0.895E-05	0.905E-05
1.510	0.427E-04	0.482E-04	6.305	0.518E-05	0.780E-05	12.629	0.676E-05	0.758E-05
1.609	0.410E-04	0.461E-04	6.513	0.522E-05	0.750E-05	13.005	0.463E-05	0.535E-05
1.708	0.387E-04	0.439E-04	6.712	0.534E-05	0.767E-05	13.400	0.280E-05	0.333E-05
1.808	0.345E-04	0.412E-04	6.897	0.530E-05	0.768E-05	13.810	0.184E-05	0.187E-05
1.931	0.339E-04	0.381E-04	7.092	0.515E-05	0.766E-05	14.179	0.786E-06	0.109E-05
2.102	0.319E-04	0.361E-04	7.294	0.486E-05	0.756E-05	14.563	0.375E-06	0.634E-06
2.302	0.322E-04	0.371E-04	7.482	0.457E-05	0.703E-05	14.962	0.149E-06	0.366E-06
2.500	0.314E-04	0.350E-04	7.677	0.416E-05	0.627E-05	15.378	0.374E-07	0.211E-06
2.699	0.282E-04	0.323E-04	7.879	0.379E-05	0.558E-05	15.813	-0.189E-07	0.126E-06
2.900	0.251E-04	0.293E-04	8.090	0.340E-05	0.525E-05	16.426	-0.547E-07	0.624E-07
3.099	0.239E-04	0.273E-04	8.309	0.311E-05	0.517E-05	17.238	-0.637E-07	0.246E-07
3.298	0.222E-04	0.255E-04	8.508	0.286E-05	0.511E-05	18.019	-0.554E-07	0.105E-07
3.494	0.191E-04	0.231E-04	8.685	0.254E-05	0.502E-05	18.761	-0.460E-07	0.643E-08
3.700	0.159E-04	0.196E-04	8.899	0.217E-05	0.459E-05	19.551	-0.376E-07	0.618E-08
3.907	0.142E-04	0.172E-04	9.119	0.187E-05	0.406E-05	20.506	-0.225E-07	0.705E-08
4.102	0.139E-04	0.168E-04	9.316	0.183E-05	0.364E-05	21.525	-0.899E-08	0.849E-08
4.303	0.139E-04	0.180E-04	9.518	0.188E-05	0.337E-05	22.500	-0.562E-08	0.122E-07
4.507	0.135E-04	0.170E-04	9.728	0.186E-05	0.365E-05	23.545	-0.376E-08	0.148E-07
4.702	0.118E-04	0.149E-04						

TABLE 4. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 11.036 TO 12.046 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.307E-04	0.468E-04	4.898	0.104E-04	0.137E-04	9.907	0.662E-05	0.799E-05
0.910	0.468E-04	0.554E-04	5.093	0.972E-05	0.134E-04	10.209	0.863E-05	0.100E-04
1.010	0.520E-04	0.569E-04	5.301	0.870E-05	0.119E-04	10.599	0.101E-04	0.112E-04
1.110	0.513E-04	0.581E-04	5.505	0.767E-05	0.101E-04	10.973	0.983E-05	0.108E-04
1.209	0.518E-04	0.575E-04	5.690	0.600E-05	0.909E-05	11.412	0.813E-05	0.888E-05
1.309	0.510E-04	0.569E-04	5.885	0.633E-05	0.831E-05	11.828	0.595E-05	0.658E-05
1.410	0.477E-04	0.531E-04	6.090	0.580E-05	0.794E-05	12.219	0.402E-05	0.454E-05
1.510	0.438E-04	0.482E-04	6.305	0.561E-05	0.788E-05	12.629	0.241E-05	0.286E-05
1.609	0.408E-04	0.449E-04	6.513	0.585E-05	0.796E-05	13.005	0.140E-05	0.175E-05
1.708	0.397E-04	0.440E-04	6.712	0.630E-05	0.812E-05	13.400	0.759E-06	0.995E-06
1.808	0.390E-04	0.432E-04	6.897	0.624E-05	0.824E-05	13.810	0.366E-06	0.528E-06
1.931	0.366E-04	0.403E-04	7.092	0.582E-05	0.813E-05	14.179	0.168E-06	0.305E-06
2.102	0.335E-04	0.372E-04	7.294	0.511E-05	0.751E-05	14.563	0.452E-07	0.169E-06
2.302	0.338E-04	0.381E-04	7.482	0.446E-05	0.671E-05	14.962	-0.172E-07	0.909E-07
2.500	0.328E-04	0.358E-04	7.677	0.380E-05	0.576E-05	15.378	-0.445E-07	0.444E-07
2.699	0.296E-04	0.333E-04	7.879	0.333E-05	0.487E-05	15.813	-0.526E-07	0.181E-07
2.900	0.270E-04	0.308E-04	8.090	0.295E-05	0.432E-05	16.426	-0.565E-07	-0.118E-08
3.099	0.241E-04	0.273E-04	8.309	0.250E-05	0.407E-05	17.238	-0.475E-07	-0.147E-07
3.298	0.220E-04	0.249E-04	8.508	0.216E-05	0.375E-05	18.019	-0.411E-07	-0.158E-07
3.494	0.202E-04	0.239E-04	8.685	0.188E-05	0.353E-05	18.761	-0.367E-07	-0.116E-07
3.700	0.187E-04	0.220E-04	8.899	0.171E-05	0.333E-05	19.551	-0.302E-07	-0.170E-08
3.907	0.171E-04	0.190E-04	9.119	0.159E-05	0.343E-05	20.506	-0.212E-07	0.728E-08
4.102	0.149E-04	0.175E-04	9.316	0.269E-05	0.395E-05	21.525	-0.116E-07	0.144E-07
4.303	0.127E-04	0.163E-04	9.518	0.386E-05	0.498E-05	22.500	-0.365E-08	0.149E-07
4.507	0.119E-04	0.152E-04	9.728	0.527E-05	0.651E-05	23.545	-0.110E-08	0.110E-07
4.702	0.113E-04	0.142E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 9.998 TO 11.036 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.377E-04	0.539E-04	4.898	0.911E-05	0.122E-04	9.907	0.111E-04	0.123E-04
0.910	0.496E-04	0.580E-04	5.093	0.885E-05	0.123E-04	10.209	0.105E-04	0.117E-04
1.010	0.558E-04	0.607E-04	5.301	0.893E-05	0.119E-04	10.599	0.828E-05	0.923E-05
1.110	0.557E-04	0.624E-04	5.505	0.869E-05	0.111E-04	10.973	0.557E-05	0.628E-05
1.209	0.517E-04	0.575E-04	5.690	0.819E-05	0.104E-04	11.412	0.294E-05	0.342E-05
1.309	0.469E-04	0.526E-04	5.885	0.739E-05	0.926E-05	11.828	0.137E-05	0.176E-05
1.410	0.457E-04	0.511E-04	6.090	0.634E-05	0.828E-05	12.219	0.632E-06	0.957E-06
1.510	0.468E-04	0.512E-04	6.305	0.524E-05	0.743E-05	12.629	0.288E-06	0.559E-06
1.609	0.467E-04	0.507E-04	6.513	0.471E-05	0.672E-05	13.005	0.152E-06	0.372E-06
1.708	0.438E-04	0.479E-04	6.712	0.442E-05	0.624E-05	13.400	0.861E-07	0.247E-06
1.808	0.390E-04	0.432E-04	6.897	0.401E-05	0.605E-05	13.810	0.233E-07	0.137E-06
1.931	0.345E-04	0.381E-04	7.092	0.363E-05	0.603E-05	14.179	-0.229E-07	0.835E-07
2.102	0.341E-04	0.376E-04	7.294	0.341E-05	0.591E-05	14.563	-0.632E-07	0.445E-07
2.302	0.353E-04	0.344E-04	7.482	0.340E-05	0.567E-05	14.962	-0.804E-07	0.219E-07
2.500	0.341E-04	0.371E-04	7.677	0.328E-05	0.524E-05	15.378	-0.768E-07	0.130E-07
2.699	0.308E-04	0.344E-04	7.879	0.310E-05	0.462E-05	15.813	-0.702E-07	0.166E-07
2.900	0.270E-04	0.307E-04	8.090	0.283E-05	0.424E-05	16.426	-0.552E-07	0.244E-07
3.099	0.247E-04	0.276E-04	8.309	0.278E-05	0.429E-05	17.238	-0.377E-07	0.323E-07
3.298	0.228E-04	0.255E-04	8.508	0.216E-05	0.475E-05	18.019	-0.214E-07	0.290E-07
3.494	0.202E-04	0.237E-04	8.685	0.377E-05	0.553E-05	18.761	-0.103E-07	0.328E-07
3.700	0.181E-04	0.211E-04	8.899	0.412E-05	0.679E-05	19.551	-0.934E-08	0.381E-07
3.907	0.172E-04	0.197E-04	9.119	0.681E-05	0.828E-05	20.506	-0.108E-07	0.408E-07
4.102	0.158E-04	0.182E-04	9.316	0.844E-05	0.960E-05	21.525	-0.130E-07	0.448E-07
4.303	0.131E-04	0.165E-04	9.518	0.989E-05	0.108E-04	22.500	-0.129E-07	0.512E-07
4.507	0.111E-04	0.142E-04	9.728	0.108E-04	0.119E-04	23.545	-0.103E-07	0.583E-07
4.702	0.100E-04	0.126E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 8.974 TO 9.998 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.316E-04	0.469E-04	4.898	0.101E-04	0.128E-04	9.907	0.579E-05	0.639E-05
0.910	0.494E-04	0.568E-04	5.093	0.913E-05	0.122E-04	10.209	0.381E-05	0.437E-05
1.010	0.521E-04	0.568E-04	5.301	0.792E-05	0.106E-04	10.599	0.201E-05	0.245E-05
1.110	0.493E-04	0.550E-04	5.505	0.714E-05	0.921E-05	10.973	0.100E-05	0.130E-05
1.209	0.487E-04	0.534E-04	5.690	0.667E-05	0.843E-05	11.412	0.376E-06	0.598E-06
1.309	0.447E-04	0.500E-04	5.885	0.639E-05	0.719E-05	11.828	0.959E-07	0.316E-06
1.410	0.499E-04	0.549E-04	6.090	0.588E-05	0.755E-05	12.219	0.244E-07	0.203E-06
1.510	0.489E-04	0.528E-04	6.305	0.506E-05	0.692E-05	12.629	0.256E-07	0.163E-06
1.609	0.451E-04	0.489E-04	6.513	0.436E-05	0.599E-05	13.005	0.381E-07	0.125E-06
1.708	0.413E-04	0.452E-04	6.712	0.388E-05	0.538E-05	13.400	0.179E-07	0.964E-07
1.808	0.386E-04	0.425E-04	6.897	0.353E-05	0.530E-05	13.810	-0.597E-08	0.618E-07
1.931	0.365E-04	0.398E-04	7.092	0.334E-05	0.550E-05	14.179	-0.209E-07	0.361E-07
2.102	0.354E-04	0.385E-04	7.294	0.346E-05	0.582E-05	14.563	-0.275E-07	0.173E-07
2.302	0.369E-04	0.408E-04	7.482	0.396E-05	0.614E-05	14.962	-0.246E-07	0.993E-08
2.500	0.344E-04	0.370E-04	7.677	0.480E-05	0.660E-05	15.378	-0.204E-07	0.953E-08
2.699	0.281E-04	0.314E-04	7.879	0.604E-05	0.739E-05	15.813	-0.188E-07	0.124E-07
2.900	0.250E-04	0.283E-04	8.090	0.748E-05	0.860E-05	16.426	-0.121E-07	0.166E-07
3.099	0.232E-04	0.259E-04	8.309	0.894E-05	0.100E-04	17.238	-0.468E-08	0.133E-07
3.298	0.219E-04	0.242E-04	8.508	0.101E-04	0.112E-04	18.019	-0.130E-08	0.835E-08
3.494	0.204E-04	0.235E-04	8.685	0.109E-04	0.118E-04	18.761	-0.266E-09	0.711E-08
3.700	0.185E-04	0.212E-04	8.899	0.112E-04	0.121E-04	19.551	-0.151E-08	0.695E-08
3.907	0.162E-04	0.185E-04	9.119	0.108E-04	0.117E-04	20.506	-0.264E-08	0.681E-08
4.102	0.142E-04	0.163E-04	9.316	0.995E-05	0.108E-04	21.525	-0.302E-08	0.726E-08
4.303	0.124E-04	0.151E-04	9.518	0.866E-05	0.935E-05	22.500	-0.291E-08	0.808E-08
4.507	0.115E-04	0.142E-04	9.728	0.713E-05	0.774E-05	23.545	-0.232E-08	0.927E-08
4.702	0.110E-04	0.131E-04						

TABLE 4. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 7.993 TO 8.974 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.384E-04	0.540E-04	4.898	0.870E-05	0.116E-04	9.907	0.953E-06	0.123E-05
0.910	0.536E-04	0.610E-04	5.093	0.715E-05	0.104E-04	10.209	0.539E-06	0.765E-06
1.010	0.583E-04	0.630E-04	5.301	0.637E-05	0.909E-05	10.599	0.319E-06	0.488E-06
1.110	0.572E-04	0.628E-04	5.505	0.601E-05	0.818E-05	10.973	0.204E-06	0.352E-06
1.209	0.549E-04	0.593E-04	5.690	0.593E-05	0.765E-05	11.412	0.907E-07	0.218E-06
1.309	0.526E-04	0.573E-04	5.885	0.560E-05	0.716E-05	11.828	0.922E-08	0.122E-06
1.410	0.517E-04	0.570E-04	6.090	0.481E-05	0.643E-05	12.219	-0.249E-07	0.614E-07
1.510	0.520E-04	0.561E-04	6.305	0.428E-05	0.601E-05	12.629	-0.300E-07	0.330E-07
1.609	0.505E-04	0.543E-04	6.513	0.480E-05	0.639E-05	13.005	-0.203E-07	0.296E-07
1.708	0.469E-04	0.509E-04	6.712	0.624E-05	0.772E-05	13.400	-0.966E-08	0.319E-07
1.808	0.427E-04	0.467E-04	6.897	0.795E-05	0.959E-05	13.810	-0.472E-08	0.313E-07
1.911	0.346E-04	0.428E-04	7.092	0.988E-05	0.118E-04	14.179	-0.209E-08	0.288E-07
2.102	0.401E-04	0.432E-04	7.294	0.117E-04	0.137E-04	14.563	-0.196E-08	0.232E-07
2.302	0.389E-04	0.427E-04	7.482	0.131E-04	0.148E-04	14.962	-0.230E-08	0.173E-07
2.500	0.339E-04	0.364E-04	7.677	0.141E-04	0.154E-04	15.378	-0.255E-08	0.138E-07
2.699	0.303E-04	0.336E-04	7.879	0.148E-04	0.154E-04	15.813	-0.349E-08	0.132E-07
2.900	0.288E-04	0.320E-04	8.090	0.138E-04	0.147E-04	16.426	-0.391E-08	0.113E-07
3.099	0.263E-04	0.288E-04	8.309	0.123E-04	0.132E-04	17.238	-0.325E-08	0.782E-08
3.298	0.241E-04	0.263E-04	8.508	0.106E-04	0.113E-04	18.019	-0.165E-08	0.455E-08
3.494	0.220E-04	0.251E-04	8.685	0.881E-05	0.946E-05	18.761	-0.244E-09	0.416E-08
3.700	0.203E-04	0.228E-04	8.899	0.667E-05	0.722E-05	19.551	-0.746E-09	0.441E-08
3.907	0.185E-04	0.207E-04	9.119	0.469E-05	0.517E-05	20.506	-0.857E-09	0.472E-08
4.102	0.165E-04	0.187E-04	9.316	0.329E-05	0.369E-05	21.525	-0.106E-08	0.532E-08
4.303	0.143E-04	0.170E-04	9.518	0.252E-05	0.252E-05	22.500	-0.113E-08	0.569E-08
4.507	0.124E-04	0.152E-04	9.728	0.139E-05	0.170E-05	23.545	-0.961E-09	0.632E-08
4.702	0.108E-04	0.130E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 6.989 TO 7.993 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.384E-04	0.550E-04	4.898	0.655E-05	0.959E-05	9.907	0.137E-06	0.286E-06
0.910	0.570E-04	0.644E-04	5.093	0.571E-05	0.937E-05	10.209	0.899E-07	0.213E-06
1.010	0.589E-04	0.638E-04	5.301	0.572E-05	0.858E-05	10.599	0.364E-07	0.145E-06
1.110	0.564E-04	0.620E-04	5.505	0.626E-05	0.827E-05	10.973	0.276E-08	0.104E-06
1.209	0.586E-04	0.630E-04	5.690	0.736E-05	0.902E-05	11.412	-0.125E-07	0.775E-07
1.309	0.594E-04	0.643E-04	5.885	0.896E-05	0.105E-04	11.828	-0.199E-08	0.668E-07
1.410	0.562E-04	0.618E-04	6.090	0.109E-04	0.125E-04	12.219	0.719E-08	0.630E-07
1.510	0.531E-04	0.574E-04	6.305	0.131E-04	0.147E-04	12.629	0.111E-07	0.506E-07
1.609	0.498E-04	0.537E-04	6.513	0.151E-04	0.166E-04	13.005	0.820E-08	0.383E-07
1.708	0.467E-04	0.511E-04	6.712	0.168E-04	0.180E-04	13.400	0.773E-09	0.259E-07
1.808	0.447E-04	0.491E-04	6.897	0.176E-04	0.188E-04	13.810	-0.516E-08	0.164E-07
1.911	0.431E-04	0.464E-04	7.092	0.175E-04	0.186E-04	14.179	-0.788E-08	0.112E-07
2.102	0.416E-04	0.449E-04	7.294	0.163E-04	0.173E-04	14.563	-0.840E-08	0.704E-08
2.302	0.411E-04	0.451E-04	7.482	0.148E-04	0.153E-04	14.962	-0.825E-08	0.431E-08
2.500	0.391E-04	0.415E-04	7.677	0.119E-04	0.127E-04	15.378	-0.774E-08	0.393E-08
2.699	0.347E-04	0.379E-04	7.879	0.924E-05	0.987E-05	15.813	-0.756E-08	0.524E-08
2.900	0.309E-04	0.340E-04	8.090	0.667E-05	0.727E-05	16.426	-0.605E-08	0.702E-08
3.099	0.283E-04	0.306E-04	8.309	0.448E-05	0.500E-05	17.238	-0.342E-08	0.903E-08
3.298	0.263E-04	0.284E-04	8.508	0.302E-05	0.341E-05	18.019	-0.188E-08	0.101E-07
3.494	0.238E-04	0.268E-04	8.685	0.205E-05	0.237E-05	18.761	-0.270E-08	0.102E-07
3.700	0.213E-04	0.238E-04	8.899	0.122E-05	0.150E-05	19.551	-0.365E-08	0.112E-07
3.907	0.184E-04	0.202E-04	9.119	0.696E-06	0.960E-06	20.506	-0.330E-08	0.117E-07
4.102	0.162E-04	0.172E-04	9.316	0.417E-06	0.660E-06	21.525	-0.391E-08	0.110E-07
4.303	0.115E-04	0.145E-04	9.518	0.260E-06	0.468E-06	22.500	-0.495E-08	0.133E-07
4.507	0.926E-05	0.121E-04	9.728	0.180E-06	0.347E-06	23.545	-0.150E-08	0.128E-07
4.702	0.799E-05	0.102E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 5.989 TO 6.989 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.432E-04	0.613E-04	4.898	0.989E-05	0.130E-04	9.907	0.446E-07	0.132E-06
0.910	0.600E-04	0.675E-04	5.093	0.127E-04	0.167E-04	10.209	0.435E-07	0.118E-06
1.010	0.596E-04	0.648E-04	5.301	0.167E-04	0.197E-04	10.599	0.397E-07	0.993E-07
1.110	0.604E-04	0.662E-04	5.505	0.207E-04	0.226E-04	10.973	0.301E-07	0.823E-07
1.209	0.632E-04	0.678E-04	5.690	0.235E-04	0.250E-04	11.412	0.214E-07	0.702E-07
1.309	0.616E-04	0.670E-04	5.885	0.252E-04	0.266E-04	11.828	0.142E-07	0.571E-07
1.410	0.600E-04	0.661E-04	6.090	0.250E-04	0.263E-04	12.219	0.116E-07	0.442E-07
1.510	0.608E-04	0.656E-04	6.305	0.226E-04	0.239E-04	12.629	0.105E-07	0.341E-07
1.609	0.612E-04	0.652E-04	6.513	0.189E-04	0.201E-04	13.005	0.725E-08	0.278E-07
1.708	0.597E-04	0.643E-04	6.712	0.148E-04	0.157E-04	13.400	0.306E-08	0.221E-07
1.808	0.569E-04	0.616E-04	6.897	0.110E-04	0.118E-04	13.810	-0.957E-09	0.176E-07
1.911	0.521E-04	0.555E-04	7.092	0.769E-05	0.820E-05	14.179	-0.406E-08	0.136E-07
2.102	0.449E-04	0.482E-04	7.294	0.497E-05	0.533E-05	14.563	-0.505E-08	0.995E-08
2.302	0.417E-04	0.456E-04	7.482	0.313E-05	0.350E-05	14.962	-0.499E-08	0.633E-08
2.500	0.416E-04	0.440E-04	7.677	0.188E-05	0.228E-05	15.378	-0.428E-08	0.432E-08
2.699	0.394E-04	0.421E-04	7.879	0.111E-05	0.147E-05	15.813	-0.300E-08	0.332E-08
2.900	0.361E-04	0.385E-04	8.090	0.666E-06	0.957E-06	16.426	-0.161E-08	0.298E-08
3.099	0.312E-04	0.332E-04	8.309	0.411E-06	0.639E-06	17.238	-0.516E-09	0.357E-08
3.298	0.253E-04	0.272E-04	8.508	0.273E-06	0.465E-06	18.019	-0.781E-09	0.406E-08
3.494	0.190E-04	0.226E-04	8.685	0.190E-06	0.349E-06	18.761	-0.966E-09	0.456E-08
3.700	0.160E-04	0.183E-04	8.899	0.116E-06	0.256E-06	19.551	-0.107E-08	0.509E-08
3.907	0.126E-04	0.143E-04	9.119	0.673E-07	0.198E-06	20.506	-0.113E-08	0.544E-08
4.102	0.888E-05	0.112E-04	9.316	0.551E-07	0.170E-06	21.525	-0.113E-08	0.588E-08
4.303	0.609E-05	0.927E-05	9.518	0.476E-07	0.151E-06	22.500	-0.103E-08	0.620E-08
4.507	0.447E-05	0.905E-05	9.728	0.461E-07	0.141E-06	23.545	-0.788E-09	0.678E-08
4.702	0.772E-05	0.999E-05						

TABLE 4. CONTINUED.

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 5.002 TO 5.989 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.487E-04	0.671E-04	4.898	0.330E-04	0.345E-04	9.907	-0.115E-07	0.255E-07
0.910	0.659E-04	0.734E-04	5.093	0.338E-04	0.353E-04	10.209	-0.821E-08	0.226E-07
1.010	0.708E-04	0.759E-04	5.301	0.311E-04	0.326E-04	10.599	-0.467E-08	0.225E-07
1.110	0.703E-04	0.761E-04	5.505	0.258E-04	0.269E-04	10.973	-0.181E-08	0.223E-07
1.209	0.703E-04	0.748E-04	5.690	0.202E-04	0.210E-04	11.412	-0.172E-08	0.223E-07
1.309	0.694E-04	0.746E-04	5.885	0.144E-04	0.150E-04	11.828	-0.475E-08	0.215E-07
1.410	0.676E-04	0.732E-04	6.090	0.934E-05	0.984E-05	12.219	-0.677E-08	0.201E-07
1.510	0.657E-04	0.698E-04	6.305	0.546E-05	0.591E-05	12.629	-0.662E-08	0.187E-07
1.609	0.633E-04	0.670E-04	6.513	0.306E-05	0.344E-05	13.005	-0.514E-08	0.127E-07
1.708	0.611E-04	0.652E-04	6.712	0.176E-05	0.204E-05	13.400	-0.308E-08	0.997E-08
1.808	0.588E-04	0.626E-04	6.897	0.112E-05	0.135E-05	13.810	-0.141E-08	0.936E-08
1.931	0.550E-04	0.580E-04	7.092	0.807E-06	0.101E-05	14.179	-0.113E-08	0.962E-08
2.102	0.502E-04	0.530E-04	7.294	0.683E-06	0.865E-06	14.563	-0.146E-08	0.948E-08
2.302	0.460E-04	0.493E-04	7.482	0.612E-06	0.798E-06	14.962	-0.177E-08	0.101E-07
2.500	0.381E-04	0.401E-04	7.677	0.532E-06	0.713E-06	15.378	-0.188E-08	0.106E-07
2.699	0.298E-04	0.322E-04	7.879	0.438E-06	0.608E-06	15.813	-0.186E-08	0.107E-07
2.900	0.238E-04	0.260E-04	8.090	0.334E-06	0.487E-06	16.426	-0.179E-08	0.119E-07
3.099	0.185E-04	0.204E-04	8.309	0.231E-06	0.360E-06	17.238	-0.183E-08	0.122E-07
3.298	0.141E-04	0.159E-04	8.508	0.153E-06	0.257E-06	18.019	-0.199E-08	0.123E-07
3.494	0.107E-04	0.131E-04	8.685	0.109E-06	0.182E-06	18.761	-0.208E-08	0.134E-07
3.700	0.111E-04	0.131E-04	8.899	0.619E-07	0.119E-06	19.551	-0.219E-08	0.146E-07
3.907	0.116E-04	0.141E-04	9.119	0.267E-07	0.782E-07	20.506	-0.242E-08	0.165E-07
4.102	0.183E-04	0.198E-04	9.316	0.526E-08	0.563E-07	21.525	-0.261E-08	0.169E-07
4.303	0.218E-04	0.236E-04	9.518	-0.614E-08	0.413E-07	22.500	-0.256E-08	0.198E-07
4.507	0.256E-04	0.276E-04	9.728	-0.107E-07	0.306E-07	23.545	-0.208E-08	0.179E-07
4.702	0.297E-04	0.314E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.750 TO 5.002 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.410E-04	0.593E-04	4.898	0.360E-04	0.372E-04	9.907	-0.203E-07	0.106E-07
0.910	0.611E-04	0.685E-04	5.093	0.249E-04	0.260E-04	10.209	-0.170E-07	0.155E-07
1.010	0.696E-04	0.749E-04	5.301	0.185E-04	0.155E-04	10.599	-0.117E-07	0.215E-07
1.110	0.723E-04	0.785E-04	5.505	0.783E-05	0.847E-05	10.973	-0.777E-08	0.229E-07
1.209	0.770E-04	0.816E-04	5.690	0.426E-05	0.474E-05	11.412	-0.593E-08	0.216E-07
1.309	0.800E-04	0.854E-04	5.885	0.227E-05	0.266E-05	11.828	-0.719E-08	0.197E-07
1.410	0.786E-04	0.842E-04	6.090	0.123E-05	0.159E-05	12.219	-0.964E-08	0.190E-07
1.510	0.756E-04	0.797E-04	6.305	0.666E-06	0.101E-05	12.629	-0.121E-07	0.184E-07
1.609	0.724E-04	0.763E-04	6.513	0.342E-06	0.648E-06	13.005	-0.130E-07	0.183E-07
1.708	0.675E-04	0.719E-04	6.712	0.157E-06	0.417E-06	13.400	-0.153E-07	0.190E-07
1.808	0.591E-04	0.631E-04	6.897	0.697E-07	0.302E-06	13.810	-0.169E-07	0.190E-07
1.931	0.474E-04	0.508E-04	7.092	0.612E-07	0.275E-06	14.179	-0.168E-07	0.218E-07
2.102	0.352E-04	0.389E-04	7.294	0.110E-06	0.223E-06	14.563	-0.152E-07	0.233E-07
2.302	0.251E-04	0.302E-04	7.482	0.195E-06	0.383E-06	14.962	-0.126E-07	0.263E-07
2.500	0.225E-04	0.257E-04	7.677	0.260E-06	0.429E-06	15.378	-0.952E-08	0.281E-07
2.699	0.199E-04	0.238E-04	7.879	0.287E-06	0.439E-06	15.813	-0.111E-07	0.275E-07
2.900	0.150E-04	0.197E-04	8.090	0.113E-06	0.406E-06	16.426	-0.828E-08	0.297E-07
3.099	0.124E-04	0.157E-04	8.309	0.218E-06	0.338E-06	17.238	-0.546E-08	0.238E-07
3.298	0.115E-04	0.147E-04	8.508	0.150E-06	0.260E-06	18.019	-0.404E-08	0.231E-07
3.494	0.167E-04	0.200E-04	8.685	0.106E-06	0.189E-06	18.761	-0.299E-08	0.217E-07
3.700	0.207E-04	0.275E-04	8.899	0.334E-07	0.140E-06	19.551	-0.258E-08	0.258E-07
3.907	0.299E-04	0.325E-04	9.119	0.142E-07	0.665E-07	20.506	-0.262E-08	0.207E-07
4.102	0.351E-04	0.372E-04	9.316	-0.484E-08	0.370E-07	21.525	-0.195E-08	0.352E-07
4.303	0.422E-04	0.442E-04	9.518	-0.160E-07	0.189E-07	22.500	-0.122E-08	0.373E-07
4.507	0.470E-04	0.488E-04	9.728	-0.218E-07	0.107E-07	23.545	-0.667E-09	0.439E-07
4.702	0.447E-04	0.461E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.495 TO 4.750 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.513E-04	0.704E-04	4.898	0.240E-04	0.250E-04	9.907	-0.122E-07	0.219E-07
0.910	0.754E-04	0.830E-04	5.093	0.135E-04	0.142E-04	10.209	-0.241E-07	0.144E-07
1.010	0.857E-04	0.909E-04	5.301	0.659E-05	0.718E-05	10.599	-0.286E-07	0.141E-07
1.110	0.872E-04	0.930E-04	5.505	0.303E-05	0.351E-05	10.973	-0.255E-07	0.172E-07
1.209	0.848E-04	0.891E-04	5.690	0.147E-05	0.186E-05	11.412	-0.174E-07	0.220E-07
1.309	0.803E-04	0.854E-04	5.885	0.695E-06	0.103E-05	11.828	-0.116E-07	0.232E-07
1.410	0.769E-04	0.821E-04	6.090	0.375E-06	0.646E-06	12.219	-0.013E-08	0.238E-07
1.510	0.724E-04	0.762E-04	6.305	0.315E-06	0.620E-06	12.629	-0.382E-08	0.264E-07
1.609	0.643E-04	0.680E-04	6.513	0.353E-06	0.626E-06	13.005	-0.122E-08	0.283E-07
1.708	0.541E-04	0.584E-04	6.712	0.389E-06	0.617E-06	13.400	-0.598E-09	0.100E-07
1.808	0.445E-04	0.484E-04	6.897	0.382E-06	0.581E-06	13.810	-0.588E-09	0.308E-07
1.931	0.343E-04	0.377E-04	7.092	0.333E-06	0.511E-06	14.179	-0.804E-09	0.336E-07
2.102	0.240E-04	0.285E-04	7.294	0.265E-06	0.433E-06	14.563	-0.106E-08	0.362E-07
2.302	0.256E-04	0.302E-04	7.482	0.204E-06	0.359E-06	14.962	-0.123E-08	0.373E-07
2.500	0.237E-04	0.271E-04	7.677	0.153E-06	0.296E-06	15.378	-0.120E-08	0.180E-07
2.699	0.145E-04	0.185E-04	7.879	0.119E-06	0.244E-06	15.813	-0.103E-08	0.394E-07
2.900	0.103E-04	0.142E-04	8.090	0.108E-06	0.210E-06	16.426	-0.852E-09	0.407E-07
3.099	0.121E-04	0.156E-04	8.309	0.101E-06	0.190E-06	17.238	-0.859E-09	0.407E-07
3.298	0.209E-04	0.242E-04	8.508	0.922E-07	0.177E-06	18.019	-0.183E-08	0.417E-07
3.494	0.303E-04	0.337E-04	8.685	0.796E-07	0.161E-06	18.761	-0.345E-08	0.448E-07
3.700	0.365E-04	0.393E-04	8.899	0.647E-07	0.138E-06	19.551	-0.490E-08	0.466E-07
3.907	0.433E-04	0.458E-04	9.119	0.429E-07	0.109E-06	20.506	-0.522E-08	0.531E-07
4.102	0.524E-04	0.543E-04	9.316	0.258E-07	0.814E-07	21.525	-0.502E-08	0.514E-07
4.303	0.568E-04	0.586E-04	9.518	0.101E-07	0.551E-07	22.500	-0.677E-08	0.517E-07
4.507	0.507E-04	0.523E-04	9.728	-0.282E-08	0.339E-07	23.545	-0.774E-08	0.515E-07
4.702	0.378E-04	0.390E-04						

TABLE 4. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.240 TO 4.495 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.774E-04	0.950E-04	4.898	0.122E-04	0.129E-04	9.907	0.550E-08	0.226E-07
0.910	0.816E-04	0.886E-04	5.093	0.574E-05	0.629E-05	10.209	0.151E-08	0.146E-07
1.010	0.781E-04	0.827E-04	5.301	0.237E-05	0.283E-05	10.599	-0.144E-08	0.101E-07
1.110	0.764E-04	0.814E-04	5.505	0.102E-05	0.140E-05	10.973	-0.402E-08	0.775E-08
1.209	0.777E-04	0.815E-04	5.690	0.588E-06	0.912E-06	11.412	-0.604E-08	0.704E-08
1.309	0.753E-04	0.799E-04	5.885	0.452E-06	0.732E-06	11.828	-0.721E-08	0.718E-08
1.410	0.668E-04	0.714E-04	6.090	0.427E-06	0.683E-06	12.219	-0.799E-08	0.742E-08
1.510	0.598E-04	0.582E-04	6.305	0.410E-06	0.659E-06	12.629	-0.864E-08	0.739E-08
1.609	0.420E-04	0.455E-04	6.513	0.383E-06	0.609E-06	13.005	-0.917E-08	0.780E-08
1.708	0.313E-04	0.352E-04	6.712	0.354E-06	0.538E-06	13.400	-0.974E-08	0.784E-08
1.808	0.247E-04	0.283E-04	6.897	0.319E-06	0.470E-06	13.810	-0.103E-07	0.721E-08
1.931	0.232E-04	0.266E-04	7.092	0.277E-06	0.404E-06	14.179	-0.108E-07	0.762E-08
2.102	0.275E-04	0.311E-04	7.294	0.224E-06	0.347E-06	14.563	-0.111E-07	0.810E-08
2.302	0.245E-04	0.290E-04	7.482	0.175E-06	0.291E-06	14.962	-0.110E-07	0.931E-08
2.500	0.169E-04	0.202E-04	7.677	0.132E-06	0.238E-06	15.378	-0.106E-07	0.103E-07
2.699	0.117E-04	0.157E-04	7.879	0.981E-07	0.188E-06	15.813	-0.994E-08	0.101E-07
2.900	0.136E-04	0.173E-04	8.090	0.762E-07	0.143E-06	16.266	-0.897E-08	0.120E-07
3.099	0.241E-04	0.276E-04	8.309	0.611E-07	0.117E-06	17.238	-0.811E-08	0.118E-07
3.298	0.354E-04	0.386E-04	8.508	0.507E-07	0.103E-06	18.019	-0.761E-08	0.131E-07
3.494	0.411E-04	0.442E-04	8.685	0.429E-07	0.920E-07	18.761	-0.708E-08	0.152E-07
3.700	0.471E-04	0.496E-04	8.899	0.342E-07	0.814E-07	19.551	-0.641E-08	0.159E-07
3.907	0.568E-04	0.590E-04	9.119	0.260E-07	0.682E-07	20.506	-0.580E-08	0.172E-07
4.102	0.615E-04	0.633E-04	9.316	0.194E-07	0.553E-07	21.525	-0.564E-08	0.209E-07
4.303	0.544E-04	0.559E-04	9.518	0.136E-07	0.420E-07	22.500	-0.573E-08	0.165E-07
4.507	0.387E-04	0.399E-04	9.728	0.878E-08	0.304E-07	23.545	-0.505E-08	0.185E-07
4.702	0.234E-04	0.243E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.006 TO 4.240 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.486E-04	0.656E-04	4.898	0.463E-05	0.512E-05	9.907	-0.172E-07	0.138E-07
0.910	0.732E-04	0.798E-04	5.093	0.196E-05	0.238E-05	10.209	-0.127E-07	0.144E-07
1.010	0.855E-04	0.898E-04	5.301	0.784E-06	0.115E-05	10.599	-0.834E-08	0.175E-07
1.110	0.806E-04	0.853E-04	5.505	0.377E-06	0.697E-06	10.973	-0.636E-08	0.190E-07
1.209	0.699E-04	0.737E-04	5.690	0.312E-06	0.586E-06	11.412	-0.594E-08	0.216E-07
1.309	0.582E-04	0.626E-04	5.885	0.246E-06	0.590E-06	11.828	-0.637E-08	0.242E-07
1.410	0.462E-04	0.506E-04	6.090	0.386E-06	0.620E-06	12.219	-0.695E-08	0.259E-07
1.510	0.368E-04	0.402E-04	6.305	0.395E-06	0.610E-06	12.629	-0.769E-08	0.269E-07
1.609	0.316E-04	0.352E-04	6.513	0.358E-06	0.545E-06	13.005	-0.848E-08	0.283E-07
1.708	0.313E-04	0.353E-04	6.712	0.298E-06	0.452E-06	13.400	-0.936E-08	0.291E-07
1.808	0.328E-04	0.364E-04	6.897	0.233E-06	0.365E-06	13.810	-0.102E-07	0.287E-07
1.931	0.302E-04	0.337E-04	7.092	0.176E-06	0.290E-06	14.179	-0.107E-07	0.304E-07
2.102	0.210E-04	0.250E-04	7.294	0.134E-06	0.235E-06	14.563	-0.108E-07	0.320E-07
2.302	0.159E-04	0.203E-04	7.482	0.108E-06	0.199E-06	14.962	-0.104E-07	0.347E-07
2.500	0.162E-04	0.197E-04	7.677	0.884E-07	0.170E-06	15.378	-0.937E-08	0.362E-07
2.699	0.225E-04	0.265E-04	7.879	0.702E-07	0.146E-06	15.813	-0.787E-08	0.389E-07
2.900	0.388E-04	0.420E-04	8.090	0.534E-07	0.120E-06	16.266	-0.534E-08	0.389E-07
3.099	0.498E-04	0.533E-04	8.309	0.341E-07	0.940E-07	17.238	-0.623E-08	0.383E-07
3.298	0.487E-04	0.517E-04	8.508	0.165E-07	0.703E-07	18.019	-0.472E-08	0.396E-07
3.494	0.492E-04	0.521E-04	8.685	0.290E-08	0.540E-07	18.761	-0.369E-08	0.460E-07
3.700	0.601E-04	0.624E-04	8.899	-0.105E-07	0.423E-07	19.551	-0.296E-08	0.341E-07
3.907	0.660E-04	0.679E-04	9.119	-0.172E-07	0.345E-07	20.506	-0.159E-08	0.272E-07
4.102	0.571E-04	0.586E-04	9.316	-0.211E-07	0.210E-07	21.525	-0.891E-09	0.300E-07
4.303	0.389E-04	0.401E-04	9.518	-0.217E-07	0.170E-07	22.500	-0.865E-09	0.321E-07
4.507	0.214E-04	0.223E-04	9.728	-0.197E-07	0.145E-07	23.545	-0.171E-08	0.383E-07
4.702	0.105E-04	0.111E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 3.757 TO 4.006 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.613E-04	0.764E-04	4.898	0.125E-05	0.162E-05	9.907	-0.119E-07	0.934E-08
0.910	0.735E-04	0.795E-04	5.093	0.468E-06	0.807E-06	10.209	-0.141E-07	0.510E-08
1.010	0.682E-04	0.721E-04	5.301	0.214E-06	0.520E-06	10.599	-0.131E-07	0.444E-08
1.110	0.555E-04	0.600E-04	5.505	0.239E-06	0.500E-06	10.973	-0.102E-07	0.607E-08
1.209	0.448E-04	0.483E-04	5.690	0.339E-06	0.568E-06	11.412	-0.598E-08	0.802E-08
1.309	0.353E-04	0.395E-04	5.885	0.419E-06	0.620E-06	11.828	-0.221E-08	0.929E-08
1.410	0.287E-04	0.331E-04	6.090	0.440E-06	0.625E-06	12.219	-0.131E-08	0.103E-07
1.510	0.281E-04	0.315E-04	6.305	0.407E-06	0.579E-06	12.629	-0.182E-08	0.110E-07
1.609	0.306E-04	0.342E-04	6.513	0.343E-06	0.496E-06	13.005	-0.230E-08	0.121E-07
1.708	0.327E-04	0.366E-04	6.712	0.275E-06	0.396E-06	13.400	-0.276E-08	0.126E-07
1.808	0.316E-04	0.352E-04	6.897	0.206E-06	0.303E-06	13.810	-0.309E-08	0.128E-07
1.931	0.246E-04	0.282E-04	7.092	0.131E-06	0.217E-06	14.179	-0.321E-08	0.135E-07
2.102	0.149E-04	0.189E-04	7.294	0.693E-07	0.145E-06	14.563	-0.315E-08	0.138E-07
2.302	0.169E-04	0.211E-04	7.482	0.289E-07	0.976E-07	14.962	-0.295E-08	0.139E-07
2.500	0.297E-04	0.331E-04	7.677	0.838E-08	0.665E-07	15.378	-0.268E-08	0.143E-07
2.699	0.492E-04	0.528E-04	7.879	0.471E-08	0.516E-07	15.813	-0.240E-08	0.148E-07
2.900	0.601E-04	0.634E-04	8.090	0.941E-08	0.512E-07	16.266	-0.211E-08	0.153E-07
3.099	0.569E-04	0.602E-04	8.309	0.176E-07	0.563E-07	17.238	-0.196E-08	0.153E-07
3.298	0.595E-04	0.621E-04	8.508	0.219E-07	0.592E-07	18.019	-0.199E-08	0.159E-07
3.494	0.712E-04	0.736E-04	8.685	0.217E-07	0.577E-07	18.761	-0.215E-08	0.159E-07
3.700	0.743E-04	0.762E-04	8.899	0.175E-07	0.515E-07	19.551	-0.227E-08	0.178E-07
3.907	0.586E-04	0.600E-04	9.119	0.104E-07	0.413E-07	20.506	-0.186E-08	0.194E-07
4.102	0.365E-04	0.376E-04	9.316	0.294E-08	0.314E-07	21.525	-0.505E-09	0.218E-07
4.303	0.183E-04	0.191E-04	9.518	-0.400E-08	0.223E-07	22.500	0.842E-09	0.216E-07
4.507	0.786E-05	0.842E-05	9.728	-0.902E-08	0.139E-07	23.545	0.137E-08	0.221E-07
4.702	0.322E-05	0.364E-05						

TABLE 4. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES. INCIDENT NEUTRON ENERGY RANGE = 3.499 TO 3.757 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.080E-04	0.626E-04	4.898	0.363E-06	0.634E-06	9.907	-0.143E-08	0.899E-08
0.910	0.620E-04	0.676E-04	5.093	0.216E-06	0.460E-06	10.209	-0.132E-08	0.873E-08
1.010	0.499E-04	0.537E-04	5.301	0.237E-06	0.459E-06	10.599	-0.207E-08	0.917E-08
1.110	0.306E-04	0.352E-04	5.505	0.269E-06	0.463E-06	10.973	-0.251E-08	0.941E-08
1.209	0.258E-04	0.292E-04	5.690	0.273E-06	0.481E-06	11.812	-0.279E-08	0.105E-07
1.309	0.333E-04	0.377E-04	5.885	0.250E-06	0.396E-06	11.828	-0.292E-08	0.113E-07
1.410	0.406E-04	0.452E-04	6.090	0.221E-06	0.351E-06	12.219	-0.296E-08	0.121E-07
1.510	0.403E-04	0.439E-04	6.305	0.198E-06	0.316E-06	12.629	-0.300E-08	0.124E-07
1.609	0.343E-04	0.382E-04	6.513	0.180E-06	0.279E-06	13.005	-0.306E-08	0.123E-07
1.708	0.265E-04	0.307E-04	6.712	0.152E-06	0.235E-06	13.400	-0.317E-08	0.126E-07
1.808	0.196E-04	0.237E-04	6.897	0.120E-06	0.191E-06	13.810	-0.327E-08	0.129E-07
1.931	0.148E-04	0.188E-04	7.092	0.856E-07	0.145E-06	14.179	-0.334E-08	0.135E-07
2.102	0.152E-04	0.197E-04	7.294	0.546E-07	0.103E-06	14.563	-0.335E-08	0.159E-07
2.302	0.345E-04	0.387E-04	7.482	0.335E-07	0.783E-07	14.962	-0.332E-08	0.167E-07
2.500	0.676E-04	0.712E-04	7.677	0.185E-07	0.535E-07	15.378	-0.328E-08	0.156E-07
2.699	0.793E-04	0.827E-04	7.879	0.821E-08	0.802E-07	15.813	-0.324E-08	0.160E-07
2.900	0.653E-04	0.684E-04	8.090	0.115E-08	0.322E-07	16.426	-0.319E-08	0.155E-07
3.099	0.653E-04	0.682E-04	8.309	-0.353E-08	0.269E-07	17.238	-0.313E-08	0.172E-07
3.298	0.835E-04	0.854E-04	8.508	-0.559E-08	0.234E-07	18.019	-0.326E-08	0.171E-07
3.494	0.858E-04	0.878E-04	8.685	-0.630E-08	0.203E-07	18.761	-0.367E-08	0.174E-07
3.700	0.630E-04	0.646E-04	8.899	-0.944E-08	0.166E-07	19.551	-0.402E-08	0.194E-07
3.907	0.349E-04	0.360E-04	9.119	-0.486E-08	0.131E-07	20.506	-0.398E-08	0.170E-07
4.102	0.165E-04	0.173E-04	9.316	-0.372E-08	0.107E-07	21.525	-0.355E-08	0.186E-07
4.303	0.158E-05	0.733E-05	9.518	-0.260E-08	0.936E-08	22.500	-0.343E-08	0.186E-07
4.507	0.255E-05	0.293E-05	9.728	-0.190E-08	0.901E-08	23.545	-0.304E-08	0.169E-07
4.702	0.938E-06	0.125E-05						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES. INCIDENT NEUTRON ENERGY RANGE = 3.253 TO 3.499 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.129E-04	0.257E-04	4.898	0.344E-06	0.551E-06	9.907	-0.375E-09	0.108E-07
0.910	0.153E-04	0.205E-04	5.093	0.296E-06	0.475E-06	10.209	0.137E-08	0.134E-07
1.010	0.237E-04	0.276E-04	5.301	0.274E-06	0.436E-06	10.599	0.266E-08	0.154E-07
1.110	0.386E-04	0.436E-04	5.505	0.252E-06	0.384E-06	10.973	0.301E-08	0.156E-07
1.209	0.477E-04	0.517E-04	5.690	0.225E-06	0.331E-06	11.812	0.261E-08	0.143E-07
1.309	0.447E-04	0.497E-04	5.885	0.225E-06	0.280E-06	11.828	0.147E-08	0.115E-07
1.410	0.372E-04	0.422E-04	6.090	0.151E-06	0.224E-06	12.219	0.837E-09	0.955E-08
1.510	0.282E-04	0.321E-04	6.305	0.105E-06	0.170E-06	12.629	0.231E-09	0.806E-08
1.609	0.184E-04	0.226E-04	6.513	0.639E-07	0.119E-06	13.005	-0.337E-09	0.717E-08
1.708	0.136E-04	0.181E-04	6.712	0.354E-07	0.789E-07	13.400	-0.962E-09	0.670E-08
1.808	0.141E-04	0.106E-04	6.897	0.103E-07	0.499E-07	13.810	-0.103E-08	0.645E-08
1.931	0.180E-04	0.224E-04	7.092	0.567E-08	0.326E-07	14.179	-0.151E-08	0.713E-08
2.102	0.411E-04	0.457E-04	7.294	-0.105E-08	0.241E-07	14.563	-0.132E-08	0.797E-08
2.302	0.869E-04	0.910E-04	7.482	-0.593E-08	0.197E-07	14.962	-0.960E-09	0.855E-08
2.500	0.940E-04	0.974E-04	7.677	-0.943E-08	0.170E-07	15.378	-0.606E-09	0.902E-08
2.699	0.701E-04	0.732E-04	7.879	-0.119E-07	0.126E-07	15.813	-0.176E-09	0.963E-08
2.900	0.611E-04	0.697E-04	8.090	-0.119E-07	0.879E-08	16.426	-0.266E-09	0.101E-07
3.099	0.848E-04	0.870E-04	8.309	-0.137E-07	0.503E-08	17.238	-0.238E-09	0.100E-07
3.298	0.641E-04	0.659E-04	8.508	-0.131E-07	0.218E-08	18.019	-0.363E-09	0.101E-07
3.494	0.589E-04	0.604E-04	8.685	-0.119E-07	0.564E-09	18.761	-0.691E-09	0.106E-07
3.700	0.451E-04	0.308E-04	8.899	-0.971E-08	0.582E-09	19.551	-0.103E-08	0.106E-07
3.907	0.116E-04	0.122E-04	9.119	-0.729E-08	0.250E-08	20.506	-0.133E-08	0.120E-07
4.102	0.425E-05	0.467E-05	9.316	-0.527E-08	0.432E-08	21.525	-0.147E-08	0.116E-07
4.303	0.164E-05	0.198E-05	9.518	-0.341E-08	0.672E-08	22.500	-0.159E-08	0.114E-07
4.507	0.194E-06	0.109E-05	9.728	-0.168E-08	0.895E-08	23.545	-0.152E-08	0.990E-08
4.702	0.474E-06	0.723E-06						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES. INCIDENT NEUTRON ENERGY RANGE = 2.996 TO 3.253 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.189E-04	0.343E-04	4.898	0.198E-06	0.347E-06	9.907	-0.986E-09	0.661E-08
0.910	0.441E-04	0.502E-04	5.093	0.211E-06	0.342E-06	10.209	-0.565E-09	0.624E-08
1.010	0.471E-04	0.514E-04	5.301	0.221E-06	0.337E-06	10.599	-0.827E-09	0.639E-08
1.110	0.416E-04	0.472E-04	5.505	0.200E-06	0.301E-06	10.973	-0.122E-08	0.655E-08
1.209	0.357E-04	0.404E-04	5.690	0.145E-06	0.242E-06	11.812	-0.148E-08	0.474E-08
1.309	0.214E-04	0.333E-04	5.885	0.110E-06	0.175E-06	11.828	-0.190E-08	0.715E-08
1.410	0.201E-04	0.267E-04	6.090	0.605E-07	0.113E-06	12.219	-0.215E-08	0.750E-08
1.510	0.161E-04	0.210E-04	6.305	0.266E-07	0.677E-07	12.629	-0.237E-08	0.742E-08
1.609	0.145E-04	0.197E-04	6.513	0.901E-08	0.435E-07	13.005	-0.257E-08	0.737E-08
1.708	0.187E-04	0.240E-04	6.712	0.235E-09	0.325E-07	13.400	-0.279E-08	0.723E-08
1.808	0.345E-04	0.399E-04	6.897	-0.140E-08	0.262E-07	13.810	-0.308E-08	0.777E-08
1.931	0.712E-04	0.761E-04	7.092	-0.156E-08	0.222E-07	14.179	-0.334E-08	0.805E-08
2.102	0.117E-03	0.121E-03	7.294	-0.162E-08	0.199E-07	14.563	-0.346E-08	0.796E-08
2.302	0.107E-03	0.111E-03	7.482	-0.216E-08	0.198E-07	14.962	-0.341E-08	0.872E-08
2.500	0.744E-04	0.776E-04	7.677	-0.314E-08	0.191E-07	15.378	-0.322E-08	0.926E-08
2.699	0.837E-04	0.863E-04	7.879	-0.439E-08	0.174E-07	15.813	-0.294E-08	0.936E-08
2.900	0.108E-03	0.110E-03	8.090	-0.520E-08	0.142E-07	16.426	-0.257E-08	0.104E-07
3.099	0.964E-04	0.981E-04	8.309	-0.549E-08	0.113E-07	17.238	-0.216E-08	0.978E-08
3.298	0.587E-04	0.599E-04	8.508	-0.540E-08	0.901E-08	18.019	-0.170E-08	0.108E-07
3.494	0.266E-04	0.274E-04	8.635	-0.512E-08	0.826E-08	18.761	-0.122E-08	0.121E-07
3.700	0.895E-05	0.953E-05	8.899	-0.466E-08	0.795E-08	19.551	-0.796E-09	0.130E-07
3.907	0.238E-05	0.278E-05	9.119	-0.395E-08	0.771E-08	20.506	-0.479E-09	0.131E-07
4.102	0.558E-06	0.851E-06	9.316	-0.317E-08	0.766E-08	21.525	-0.385E-09	0.133E-07
4.303	0.156E-06	0.408E-06	9.518	-0.233E-08	0.727E-08	22.500	-0.605E-09	0.121E-07
4.507	0.149E-06	0.367E-06	9.728	-0.154E-08	0.690E-08	23.545	-0.812E-09	0.104E-07
4.702	0.177E-06	0.358E-06						

TABLE 9. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 2.747 TO 2.996 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.273E-04	0.434E-04	8.898	0.773E-07	0.160E-06	9.907	-0.254E-09	0.106E-07
0.910	0.370E-04	0.436E-04	5.093	0.409E-07	0.111E-06	10.209	-0.707E-09	0.106E-07
1.010	0.310E-04	0.361E-04	5.301	0.270E-07	0.782E-07	10.599	-0.120E-08	0.108E-07
1.110	0.232E-04	0.301E-04	5.505	0.268E-07	0.662E-07	10.973	-0.148E-08	0.109E-07
1.209	0.229E-04	0.288E-04	5.690	0.260E-07	0.622E-07	11.412	-0.162E-08	0.114E-07
1.309	0.210E-04	0.281E-04	5.885	0.209E-07	0.556E-07	11.828	-0.164E-08	0.117E-07
1.410	0.179E-04	0.253E-04	6.090	0.120E-07	0.407E-07	12.219	-0.160E-08	0.116E-07
1.510	0.241E-04	0.300E-04	6.305	0.259E-08	0.257E-07	12.629	-0.153E-08	0.120E-07
1.609	0.492E-04	0.551E-04	6.513	-0.374E-08	0.137E-07	13.005	-0.143E-08	0.126E-07
1.708	0.918E-04	0.974E-04	6.712	-0.701E-08	0.612E-08	13.400	-0.136E-08	0.131E-07
1.808	0.134E-03	0.139E-03	6.897	-0.832E-08	0.316E-08	13.810	-0.129E-08	0.140E-07
1.931	0.153E-03	0.157E-03	7.092	-0.855E-08	0.243E-08	14.179	-0.128E-08	0.143E-07
2.102	0.116E-03	0.120E-03	7.294	-0.836E-08	0.316E-08	14.563	-0.135E-08	0.148E-07
2.302	0.672E-04	0.707E-04	7.482	-0.798E-08	0.446E-08	14.962	-0.144E-08	0.146E-07
2.500	0.860E-04	0.890E-04	7.677	-0.739E-08	0.582E-08	15.378	-0.149E-08	0.151E-07
2.699	0.120E-03	0.122E-03	7.879	-0.659E-08	0.736E-08	15.813	-0.144E-08	0.148E-07
2.900	0.102E-03	0.103E-03	8.090	-0.558E-08	0.849E-08	16.426	-0.122E-08	0.159E-07
3.099	0.563E-04	0.575E-04	8.309	-0.428E-08	0.939E-08	17.238	-0.994E-09	0.157E-07
3.298	0.227E-04	0.234E-04	8.508	-0.305E-08	0.100E-07	18.019	-0.105E-08	0.175E-07
3.494	0.702E-05	0.751E-05	8.685	-0.197E-08	0.103E-07	18.761	-0.124E-08	0.149E-07
3.700	0.121E-05	0.157E-05	8.899	-0.892E-09	0.105E-07	19.551	-0.135E-08	0.150E-07
3.907	-0.170E-06	0.101E-06	9.119	-0.146E-09	0.105E-07	20.506	-0.144E-08	0.131E-07
4.102	-0.189E-06	0.221E-07	9.316	0.175E-09	0.104E-07	21.525	-0.180E-08	0.113E-07
4.303	-0.488E-08	0.171E-06	9.518	0.191E-09	0.104E-07	22.500	-0.238E-08	0.840E-07
4.507	0.108E-06	0.244E-06	9.728	-0.041E-11	0.106E-07	23.545	-0.243E-08	0.729E-08
4.702	0.115E-06	0.221E-06						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 2.500 TO 2.747 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.153E-04	0.344E-04	4.898	-0.645E-08	0.335E-07	9.907	-0.297E-08	0.679E-08
0.910	0.192E-04	0.274E-04	5.093	-0.575E-08	0.283E-07	10.209	-0.236E-08	0.696E-08
1.010	0.149E-04	0.216E-04	5.301	0.732E-09	0.256E-07	10.599	-0.141E-08	0.730E-08
1.110	0.169E-04	0.254E-04	5.505	0.760E-08	0.270E-07	10.973	-0.441E-09	0.778E-08
1.209	0.189E-04	0.264E-04	5.690	0.104E-07	0.292E-07	11.412	-0.284E-10	0.852E-08
1.309	0.308E-04	0.393E-04	5.885	0.928E-08	0.277E-07	11.828	-0.215E-09	0.858E-08
1.410	0.746E-04	0.831E-04	6.090	0.534E-08	0.217E-07	12.219	-0.544E-09	0.867E-08
1.510	0.138E-03	0.144E-03	6.305	0.427E-09	0.141E-07	12.629	-0.810E-09	0.916E-08
1.609	0.181E-03	0.187E-03	6.513	-0.326E-08	0.783E-08	13.005	-0.950E-09	0.972E-08
1.708	0.184E-03	0.189E-03	6.712	-0.540E-08	0.413E-08	13.400	-0.103E-08	0.101E-07
1.808	0.150E-03	0.155E-03	6.897	-0.633E-08	0.236E-08	13.810	-0.110E-08	0.107E-07
1.931	0.917E-04	0.959E-04	7.092	-0.633E-08	0.165E-08	14.179	-0.117E-08	0.112E-07
2.102	0.586E-04	0.624E-04	7.294	-0.578E-08	0.161E-08	14.563	-0.121E-08	0.114E-07
2.302	0.112E-03	0.115E-03	7.482	-0.513E-08	0.179E-08	14.962	-0.113E-08	0.112E-07
2.500	0.145E-03	0.148E-03	7.677	-0.457E-08	0.214E-08	15.378	-0.109E-08	0.113E-07
2.699	0.106E-03	0.107E-03	7.879	-0.417E-08	0.260E-08	15.813	-0.110E-08	0.111E-07
2.900	0.489E-04	0.498E-04	8.090	-0.392E-08	0.329E-08	16.426	-0.106E-08	0.116E-07
3.099	0.161E-04	0.167E-04	8.309	-0.380E-08	0.390E-08	17.238	-0.116E-08	0.109E-07
3.298	0.403E-05	0.440E-05	8.508	-0.371E-08	0.453E-08	18.019	-0.138E-08	0.118E-07
3.494	0.737E-06	0.100E-05	8.685	-0.367E-08	0.502E-08	18.761	-0.152E-08	0.101E-07
3.700	-0.369E-07	0.178E-06	8.899	-0.358E-08	0.559E-08	19.551	-0.150E-08	0.100E-07
3.907	-0.161E-06	-0.102E-07	9.119	-0.361E-08	0.606E-08	20.506	-0.129E-08	0.898E-08
4.102	-0.129E-06	-0.194E-07	9.316	-0.358E-08	0.638E-08	21.525	-0.117E-08	0.797E-08
4.303	-0.686E-07	0.101E-07	9.518	-0.348E-08	0.658E-08	22.500	-0.136E-08	0.617E-08
4.507	-0.225E-07	0.324E-07	9.728	-0.325E-08	0.677E-08	23.545	-0.142E-08	0.543E-08
4.702	-0.725E-08	0.383E-07						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 2.253 TO 2.500 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.784E-05	0.321E-04	4.898	0.138E-07	0.379E-07	9.907	-0.120E-08	0.549E-08
0.910	0.101E-04	0.203E-04	5.093	0.455E-08	0.254E-07	10.209	-0.152E-08	0.599E-08
1.010	0.123E-04	0.205E-04	5.301	-0.353E-09	0.165E-07	10.599	-0.166E-08	0.592E-08
1.110	0.345E-04	0.446E-04	5.505	-0.509E-09	0.131E-07	10.973	-0.146E-08	0.559E-08
1.209	0.936E-04	0.102E-03	5.690	0.611E-09	0.128E-07	11.412	-0.111E-08	0.361E-08
1.309	0.171E-03	0.179E-03	5.885	0.962E-09	0.124E-07	11.828	-0.642E-09	0.386E-08
1.410	0.216E-03	0.225E-03	6.090	0.274E-09	0.109E-07	12.219	-0.326E-09	0.374E-08
1.510	0.200E-03	0.206E-03	6.305	-0.181E-08	0.897E-08	12.629	-0.246E-09	0.384E-08
1.609	0.144E-03	0.150E-03	6.513	-0.370E-08	0.593E-08	13.005	-0.361E-09	0.391E-08
1.708	0.872E-04	0.924E-04	6.712	-0.451E-08	0.373E-08	13.400	-0.524E-09	0.416E-08
1.808	0.549E-04	0.595E-04	6.897	-0.492E-08	0.224E-08	13.810	-0.666E-09	0.412E-08
1.931	0.633E-04	0.672E-04	7.092	-0.483E-08	0.146E-08	14.179	-0.731E-09	0.403E-08
2.102	0.132E-03	0.135E-03	7.294	-0.451E-08	0.146E-08	14.563	-0.794E-09	0.478E-08
2.302	0.168E-03	0.171E-03	7.482	-0.407E-08	0.184E-08	14.962	-0.800E-09	0.471E-08
2.500	0.111E-03	0.113E-03	7.677	-0.333E-08	0.261E-08	15.378	-0.787E-09	0.488E-08
2.699	0.457E-04	0.465E-04	7.879	-0.240E-08	0.354E-08	15.813	-0.772E-09	0.483E-08
2.900	0.130E-04	0.134E-04	8.090	-0.151E-08	0.470E-08	16.426	-0.780E-09	0.503E-08
3.099	0.244E-05	0.272E-05	8.309	-0.836E-09	0.567E-08	17.238	-0.846E-09	0.492E-08
3.298	-0.444E-07	0.163E-06	8.508	-0.448E-09	0.639E-08	18.019	-0.972E-09	0.534E-08
3.494	-0.310E-06	-0.157E-06	8.685	-0.234E-09	0.682E-08	18.761	-0.107E-08	0.560E-08
3.700	-0.202E-06	-0.175E-07	8.899	-0.138E-09	0.692E-08	19.551	-0.118E-08	0.577E-08
3.907	-0.967E-07	-0.443E-08	9.119	-0.500E-09	0.670E-08	20.506	-0.107E-08	0.655E-08
4.102	-0.207E-07	0.459E-07	9.316	-0.555E-09	0.635E-08	21.525	-0.771E-09	0.718E-08
4.303	0.201E-07	0.712E-07	9.518	-0.619E-09	0.595E-08	22.500	-0.573E-09	0.647E-08
4.507	0.320E-07	0.701E-07	9.728	-0.922E-09	0.556E-08	23.545	-0.479E-09	0.585E-08
4.702	0.253E-07	0.543E-07						

TABLE 4. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 2.001 TO 2.253 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	-0.645E-05	0.235E-04	4.898	0.742E-09	0.921E-08	9.907	-0.244E-08	0.380E-08
0.910	0.344E-04	0.462E-04	5.093	-0.341E-08	0.225E-08	10.209	-0.247E-08	0.380E-08
1.010	0.119E-03	0.127E-03	5.301	-0.471E-08	0.447E-09	10.599	-0.245E-08	0.396E-08
1.110	0.218E-03	0.226E-03	5.505	-0.479E-08	0.445E-09	10.973	-0.245E-08	0.419E-08
1.209	0.249E-03	0.255E-03	5.690	-0.421E-08	0.121E-08	11.412	-0.205E-08	0.419E-08
1.309	0.198E-03	0.205E-03	5.885	-0.312E-08	0.222E-08	11.828	-0.225E-08	0.435E-08
1.410	0.120E-03	0.126E-03	6.090	-0.173E-08	0.343E-08	12.219	-0.226E-08	0.483E-08
1.510	0.634E-04	0.677E-04	6.305	-0.313E-09	0.479E-08	12.629	-0.208E-08	0.550E-08
1.609	0.425E-04	0.465E-04	6.513	0.645E-09	0.578E-08	13.005	-0.216E-08	0.615E-08
1.708	0.556E-04	0.594E-04	6.712	0.937E-09	0.637E-08	13.400	-0.196E-08	0.662E-08
1.808	0.923E-04	0.955E-04	6.897	0.663E-09	0.644E-08	13.810	-0.138E-08	0.687E-08
1.931	0.139E-03	0.142E-03	7.092	-0.164E-09	0.601E-08	14.179	-0.184E-08	0.683E-08
2.102	0.146E-03	0.148E-03	7.294	-0.138E-08	0.519E-08	14.563	-0.118E-08	0.662E-08
2.302	0.817E-04	0.829E-04	7.482	-0.244E-08	0.419E-08	14.962	-0.482E-09	0.632E-08
2.500	0.289E-04	0.294E-04	7.677	-0.317E-08	0.313E-08	15.378	0.133E-09	0.683E-08
2.699	0.746E-05	0.777E-05	7.879	-0.340E-08	0.258E-08	15.813	-0.102E-08	0.704E-08
2.900	0.143E-05	0.164E-05	8.090	-0.333E-08	0.220E-08	16.426	-0.754E-09	0.687E-08
3.099	0.209E-06	0.362E-06	8.309	-0.296E-08	0.230E-08	17.238	-0.158E-08	0.642E-08
3.298	0.989E-07	0.217E-06	8.508	-0.260E-08	0.269E-08	18.019	-0.259E-08	0.613E-08
3.494	0.131E-06	0.221E-06	8.685	-0.234E-08	0.311E-08	18.761	-0.298E-08	0.480E-08
3.700	0.161E-06	0.229E-06	8.899	-0.207E-08	0.358E-08	19.551	-0.737E-09	0.399E-08
3.907	0.164E-06	0.219E-06	9.119	-0.207E-08	0.379E-08	20.506	-0.180E-08	0.441E-08
4.102	0.131E-06	0.174E-06	9.316	-0.218E-08	0.387E-08	21.525	-0.103E-08	0.493E-08
4.303	0.812E-07	0.111E-06	9.518	-0.230E-08	0.387E-08	22.500	-0.687E-09	0.498E-08
4.507	0.372E-07	0.578E-07	9.728	-0.237E-08	0.387E-08	23.545	-0.570E-09	0.448E-08
4.702	0.122E-07	0.261E-07						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.750 TO 2.001 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.996E-04	0.129E-03	4.898	0.735E-08	0.205E-07	9.907	-0.250E-08	0.334E-08
0.910	0.191E-03	0.202E-03	5.093	0.147E-08	0.149E-07	10.209	-0.264E-08	0.322E-08
1.010	0.202E-03	0.208E-03	5.301	-0.209E-08	0.125E-07	10.599	-0.246E-08	0.280E-08
1.110	0.141E-03	0.140E-03	5.505	-0.245E-08	0.105E-07	10.973	-0.184E-08	0.252E-08
1.209	0.726E-04	0.782E-04	5.690	-0.107E-08	0.872E-08	11.412	-0.102E-08	0.289E-08
1.309	0.332E-04	0.392E-04	5.885	0.158E-10	0.747E-08	11.828	-0.327E-09	0.246E-08
1.410	0.350E-04	0.411E-04	6.090	0.478E-10	0.750E-08	12.219	-0.158E-09	0.260E-08
1.510	0.768E-04	0.814E-04	6.305	-0.758E-09	0.762E-08	12.629	-0.321E-09	0.274E-08
1.609	0.140E-03	0.142E-03	6.513	-0.115E-08	0.651E-08	13.005	-0.424E-09	0.297E-08
1.708	0.190E-03	0.193E-03	6.712	-0.162E-08	0.485E-08	13.400	-0.490E-09	0.312E-08
1.808	0.200E-03	0.203E-03	6.897	-0.181E-08	0.348E-08	13.810	-0.512E-09	0.332E-08
1.931	0.157E-03	0.159E-03	7.092	-0.183E-08	0.262E-08	14.179	-0.494E-09	0.361E-08
2.102	0.177E-04	0.171E-04	7.294	0.479E-08	0.131E-08	14.563	-0.453E-09	0.316E-08
2.302	0.178E-04	0.183E-04	7.482	-0.161E-08	0.217E-08	14.962	-0.411E-09	0.373E-08
2.500	0.356E-05	0.383E-05	7.677	-0.153E-08	0.208E-08	15.378	-0.389E-09	0.385E-08
2.699	0.109E-05	0.128E-05	7.879	-0.152E-08	0.196E-08	15.813	-0.188E-09	0.389E-08
2.900	0.391E-06	0.429E-06	8.090	-0.151E-08	0.207E-08	16.426	-0.411E-09	0.393E-08
3.099	0.396E-06	0.492E-06	8.309	-0.142E-08	0.219E-08	17.238	-0.464E-09	0.349E-08
3.298	0.174E-06	0.330E-06	8.508	-0.124E-08	0.235E-08	18.019	-0.522E-09	0.410E-08
3.494	0.155E-06	0.218E-06	8.685	-0.125E-08	0.249E-08	18.761	-0.601E-09	0.419E-08
3.700	0.644E-07	0.115E-06	8.899	-0.131E-08	0.268E-08	19.551	-0.661E-09	0.413E-08
3.907	0.333E-07	0.752E-07	9.119	-0.147E-08	0.292E-08	20.506	-0.621E-09	0.442E-08
4.102	0.353E-07	0.685E-07	9.316	-0.173E-08	0.315E-08	21.525	-0.526E-09	0.464E-08
4.303	0.346E-07	0.621E-07	9.518	-0.203E-08	0.335E-08	22.500	-0.317E-09	0.399E-08
4.507	0.252E-07	0.490E-07	9.728	-0.232E-08	0.341E-08	23.545	-0.281E-09	0.359E-08
4.702	0.148E-07	0.327E-07						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.501 TO 1.750 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.119E-03	0.138E-03	4.898	-0.131E-08	0.767E-08	9.907	-0.390E-08	0.303E-08
0.910	0.790E-04	0.872E-04	5.093	-0.374E-08	0.468E-08	10.209	-0.309E-08	0.312E-08
1.010	0.327E-04	0.386E-04	5.301	-0.694E-08	0.194E-08	10.599	-0.243E-08	0.423E-08
1.110	0.162E-04	0.227E-04	5.505	-0.844E-08	-0.248E-09	10.973	-0.210E-08	0.510E-08
1.209	0.342E-04	0.399E-04	5.690	-0.795E-08	-0.695E-09	11.412	-0.194E-08	0.605E-08
1.309	0.941E-04	0.976E-04	5.885	-0.660E-08	0.239E-09	11.828	-0.189E-08	0.741E-08
1.410	0.172E-03	0.177E-03	6.090	-0.431E-08	0.241E-08	12.219	-0.162E-08	0.754E-08
1.510	0.223E-03	0.227E-03	6.305	-0.198E-08	0.504E-08	12.629	-0.102E-08	0.742E-08
1.609	0.215E-03	0.218E-03	6.513	-0.353E-09	0.687E-08	13.005	-0.970E-09	0.682E-08
1.708	0.162E-03	0.165E-03	6.712	0.389E-09	0.777E-08	13.400	-0.128E-08	0.662E-08
1.808	0.996E-04	0.101E-03	6.897	0.318E-09	0.786E-08	13.810	-0.209E-08	0.566E-08
1.931	0.425E-04	0.432E-04	7.092	-0.439E-09	0.740E-08	14.179	-0.285E-08	0.559E-08
2.102	0.807E-05	0.838E-05	7.294	-0.151E-08	0.658E-08	14.563	-0.243E-08	0.618E-08
2.302	0.102E-05	0.125E-05	7.482	-0.231E-08	0.581E-08	14.962	-0.272E-08	0.651E-08
2.500	0.138E-05	0.157E-05	7.677	-0.264E-08	0.532E-08	15.378	-0.278E-08	0.676E-08
2.699	0.138E-05	0.151E-05	7.879	-0.247E-08	0.552E-08	15.813	-0.266E-08	0.569E-08
2.900	0.891E-06	0.985E-06	8.090	-0.211E-08	0.595E-08	16.426	-0.247E-08	0.647E-08
3.099	0.431E-06	0.500E-06	8.309	-0.183E-08	0.633E-08	17.238	-0.237E-08	0.628E-08
3.298	0.182E-06	0.233E-06	8.508	-0.180E-08	0.647E-08	18.019	-0.236E-08	0.654E-08
3.494	0.868E-07	0.126E-06	8.635	-0.218E-08	0.657E-08	18.761	-0.252E-08	0.837E-08
3.700	0.414E-07	0.758E-07	8.899	-0.285E-08	0.611E-08	19.551	-0.238E-08	0.799E-08
3.907	0.158E-07	0.426E-07	9.119	-0.332E-08	0.524E-08	20.506	-0.148E-08	0.826E-08
4.102	0.720E-08	0.271E-07	9.316	-0.385E-08	0.423E-08	21.525	-0.220E-09	0.102E-07
4.303	0.444E-08	0.209E-07	9.518	-0.427E-08	0.337E-08	22.500	0.636E-09	0.101E-07
4.507	0.266E-08	0.168E-07	9.728	-0.424E-08	0.294E-08	23.545	0.708E-09	0.994E-08
4.702	0.801E-09	0.122E-07						

TABLE 4. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.250 TO 1.501 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	-0.788E-05	0.167E-04	4.898	-0.378E-08	0.153E-08	9.907	-0.135E-08	0.551E-08
0.910	0.775E-05	0.177E-04	5.093	-0.265E-08	0.112E-08	10.209	-0.113E-08	0.482E-08
1.010	0.503E-04	0.574E-04	5.301	-0.105E-08	0.225E-08	10.599	-0.827E-09	0.409E-08
1.110	0.195E-03	0.151E-03	5.505	0.254E-09	0.367E-08	10.973	-0.559E-09	0.375E-08
1.209	0.250E-03	0.255E-03	5.690	0.101E-08	0.470E-08	11.412	-0.407E-09	0.377E-08
1.309	0.288E-03	0.292E-03	5.885	0.126E-08	0.526E-08	11.828	-0.487E-09	0.397E-08
1.410	0.238E-03	0.241E-03	6.090	0.952E-09	0.518E-08	12.219	-0.598E-09	0.359E-08
1.510	0.150E-03	0.152E-03	6.305	0.175E-09	0.459E-08	12.629	-0.123E-08	0.376E-08
1.609	0.760E-04	0.770E-04	6.513	-0.659E-09	0.398E-08	13.005	-0.112E-08	0.414E-08
1.708	0.317E-04	0.322E-04	6.712	-0.116E-08	0.318E-08	13.400	-0.980E-09	0.429E-08
1.808	0.105E-04	0.108E-04	6.897	-0.139E-08	0.273E-08	13.810	-0.907E-09	0.465E-08
1.931	0.140E-05	0.163E-05	7.092	-0.143E-08	0.243E-08	14.179	-0.597E-10	0.591E-08
2.102	-0.444E-06	-0.253E-06	7.294	-0.141E-08	0.225E-08	14.563	-0.125E-09	0.612E-08
2.302	0.631E-06	0.778E-06	7.482	-0.147E-08	0.217E-08	14.962	-0.259E-09	0.591E-08
2.500	0.125E-05	0.137E-05	7.677	-0.157E-08	0.218E-08	15.378	-0.378E-09	0.603E-08
2.699	0.960E-06	0.105E-05	7.879	-0.161E-08	0.235E-08	15.813	-0.438E-09	0.510E-08
2.900	0.455E-06	0.514E-06	8.090	-0.158E-08	0.268E-08	16.426	-0.432E-09	0.544E-08
3.099	0.161E-06	0.199E-06	8.309	-0.137E-08	0.308E-08	17.238	-0.532E-09	0.508E-08
3.298	0.496E-07	0.778E-07	8.508	-0.128E-08	0.360E-08	18.019	-0.741E-09	0.547E-08
3.494	0.136E-07	0.371E-07	8.685	-0.117E-08	0.413E-08	18.761	-0.832E-09	0.478E-08
3.700	0.443E-08	0.233E-07	8.899	-0.115E-08	0.477E-08	19.551	-0.738E-09	0.405E-08
3.907	0.452E-08	0.203E-07	9.119	-0.114E-08	0.529E-08	20.506	-0.565E-09	0.391E-08
4.102	0.516E-08	0.179E-07	9.316	-0.112E-08	0.565E-08	21.525	-0.938E-09	0.333E-08
4.303	0.254E-08	0.140E-07	9.518	-0.107E-08	0.585E-08	22.500	-0.159E-08	0.253E-08
4.507	-0.130E-08	0.902E-08	9.728	-0.107E-08	0.570E-08	23.545	-0.170E-08	0.189E-08
4.702	-0.360E-08	0.419E-08						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.000 TO 1.250 MEV.

UNFILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.484E-04	0.790E-04	4.898	-0.461E-09	0.519E-08	9.907	-0.216E-08	0.284E-08
0.910	0.187E-03	0.198E-03	5.093	0.602E-09	0.643E-08	10.209	-0.224E-08	0.331E-08
1.010	0.315E-03	0.321E-03	5.301	-0.196E-09	0.667E-08	10.599	-0.243E-08	0.380E-08
1.110	0.326E-03	0.330E-03	5.505	-0.586E-09	0.603E-08	10.973	-0.234E-08	0.434E-08
1.209	0.233E-03	0.235E-03	5.690	-0.134E-08	0.511E-08	11.412	-0.206E-08	0.475E-08
1.309	0.123E-03	0.124E-03	5.885	-0.271E-08	0.478E-08	11.828	-0.161E-08	0.484E-08
1.410	0.498E-04	0.505E-04	6.090	-0.374E-08	0.436E-08	12.219	-0.118E-08	0.479E-08
1.510	0.162E-04	0.165E-04	6.305	-0.370E-08	0.368E-08	12.629	-0.926E-09	0.465E-08
1.609	0.407E-05	0.427E-05	6.513	-0.324E-08	0.296E-08	13.005	-0.104E-08	0.462E-08
1.708	0.578E-06	0.743E-06	6.712	-0.268E-08	0.310E-08	13.400	-0.127E-08	0.480E-08
1.808	-0.213E-06	-0.597E-07	6.897	-0.196E-08	0.358E-08	13.810	-0.147E-08	0.498E-08
1.931	-0.283E-06	-0.144E-06	7.092	-0.118E-08	0.443E-08	14.179	-0.152E-08	0.526E-08
2.102	0.815E-07	0.212E-06	7.294	-0.550E-09	0.528E-08	14.563	-0.147E-08	0.575E-08
2.302	0.695E-06	0.799E-06	7.482	-0.256E-09	0.588E-08	14.962	-0.185E-08	0.573E-08
2.500	0.781E-06	0.865E-06	7.677	-0.233E-09	0.610E-08	15.378	-0.138E-08	0.549E-08
2.699	0.453E-06	0.512E-06	7.879	-0.435E-09	0.607E-08	15.813	-0.124E-08	0.571E-08
2.900	0.171E-06	0.206E-06	8.090	-0.873E-09	0.590E-08	16.426	-0.960E-09	0.587E-08
3.099	0.493E-07	0.720E-07	8.309	-0.149E-08	0.540E-08	17.238	-0.661E-09	0.667E-08
3.298	0.910E-08	0.262E-07	8.508	-0.206E-08	0.475E-08	18.019	-0.621E-09	0.709E-08
3.494	-0.247E-08	0.104E-07	8.685	-0.266E-08	0.421E-08	18.761	-0.619E-09	0.755E-08
3.700	-0.520E-08	0.611E-08	8.899	-0.270E-08	0.340E-08	19.551	-0.115E-08	0.777E-08
3.907	-0.629E-08	0.396E-08	9.119	-0.252E-08	0.282E-08	20.506	-0.191E-08	0.691E-08
4.102	-0.706E-08	0.168E-08	9.316	-0.233E-08	0.256E-08	21.525	-0.235E-08	0.483E-08
4.303	-0.652E-08	-0.240E-09	9.518	-0.225E-08	0.251E-08	22.500	-0.269E-08	0.386E-08
4.507	-0.471E-08	0.829E-09	9.728	-0.217E-08	0.265E-08	23.545	-0.235E-08	0.322E-08
4.702	-0.243E-08	0.306E-08						

TABLE 5.

TOTAL SECONDARY NEUTRON YIELD, NORMALIZED TO UNIT INCIDENT NEUTRON, AND AVERAGE SECONDARY ENERGY AS A FUNCTION OF INCIDENT NEUTRON ENERGY. THE VALUES GIVEN REPRESENT THE AVERAGE OVER THE PROJECTED AREA OF THE DETECTOR AS SEEN FROM THE SCATTERING RING. VALUES IN PARENTHESES ARE STANDARD DEVIATIONS. THE APPROXIMATE SCATTERING ANGLE IS 90 DEGREES. THE MINIMUM NEUTRON ENERGY SAMPLED IS 0.760 MEV.

UNFILTERED BEAM

INC. NT. ENERGY (MEV)	ENERGY SPREAD (MEV)	SECONDARY NEUTRON FLUX (N/CM**2)	AVERAGE ENERGY (MEV)	INC. NT. ENERGY (MEV)	ENERGY SPREAD (MEV)	SECONDARY NEUTRON FLUX (N/CM**2)	AVERAGE ENERGY (MEV)
1.010	0.021	0.124E-03 (0.363E-05)	0.969E 00 (0.358E-01)	2.410	0.017	0.201E-03 (0.433E-05)	0.189E 01 (0.448E-01)
1.031	0.019	0.172E-03 (0.444E-05)	0.993E 00 (0.322E-01)	2.420	0.018	0.209E-03 (0.421E-05)	0.186E 01 (0.415E-01)
1.050	0.020	0.198E-03 (0.460E-05)	0.102E 01 (0.295E-01)	2.450	0.027	0.208E-03 (0.344E-05)	0.194E 01 (0.352E-01)
1.071	0.021	0.131E-03 (0.366E-05)	0.103E 01 (0.358E-01)	2.473	0.018	0.217E-03 (0.438E-05)	0.195E 01 (0.430E-01)
1.090	0.018	0.107E-03 (0.355E-05)	0.106E 01 (0.432E-01)	2.491	0.018	0.220E-03 (0.449E-05)	0.195E 01 (0.436E-01)
1.109	0.019	0.108E-03 (0.360E-05)	0.105E 01 (0.432E-01)	2.509	0.018	0.219E-03 (0.442E-05)	0.194E 01 (0.430E-01)
1.130	0.022	0.133E-03 (0.356E-05)	0.107E 01 (0.352E-01)	2.528	0.019	0.224E-03 (0.459E-05)	0.195E 01 (0.438E-01)
1.151	0.020	0.109E-03 (0.343E-05)	0.110E 01 (0.421E-01)	2.547	0.019	0.220E-03 (0.442E-05)	0.198E 01 (0.435E-01)
1.170	0.018	0.888E-04 (0.335E-05)	0.113E 01 (0.512E-01)	2.566	0.019	0.206E-03 (0.433E-05)	0.203E 01 (0.466E-01)
1.189	0.021	0.122E-03 (0.343E-05)	0.113E 01 (0.381E-01)	2.590	0.029	0.187E-03 (0.336E-05)	0.195E 01 (0.387E-01)
1.209	0.019	0.137E-03 (0.375E-05)	0.115E 01 (0.379E-01)	2.614	0.020	0.190E-03 (0.418E-05)	0.198E 01 (0.478E-01)
1.230	0.022	0.161E-03 (0.368E-05)	0.118E 01 (0.321E-01)	2.634	0.020	0.194E-03 (0.429E-05)	0.199E 01 (0.483E-01)
1.250	0.019	0.157E-03 (0.386E-05)	0.119E 01 (0.349E-01)	2.654	0.020	0.194E-03 (0.444E-05)	0.205E 01 (0.512E-01)
1.270	0.020	0.163E-03 (0.385E-05)	0.122E 01 (0.341E-01)	2.674	0.020	0.196E-03 (0.454E-05)	0.204E 01 (0.516E-01)
1.290	0.020	0.124E-03 (0.335E-05)	0.122E 01 (0.382E-01)	2.690	0.010	0.186E-03 (0.657E-05)	0.207E 01 (0.800E-01)
1.311	0.021	0.139E-03 (0.353E-05)	0.126E 01 (0.375E-01)	2.705	0.021	0.193E-03 (0.520E-05)	0.211E 01 (0.616E-01)
1.330	0.018	0.179E-03 (0.415E-05)	0.128E 01 (0.347E-01)	2.726	0.021	0.206E-03 (0.520E-05)	0.220E 01 (0.602E-01)
1.350	0.022	0.135E-03 (0.321E-05)	0.127E 01 (0.351E-01)	2.747	0.021	0.196E-03 (0.501E-05)	0.221E 01 (0.613E-01)
1.371	0.019	0.789E-04 (0.279E-05)	0.134E 01 (0.505E-01)	2.768	0.022	0.187E-03 (0.490E-05)	0.218E 01 (0.619E-01)
1.389	0.019	0.100E-03 (0.298E-05)	0.134E 01 (0.458E-01)	2.790	0.022	0.188E-03 (0.484E-05)	0.215E 01 (0.603E-01)
1.409	0.019	0.128E-03 (0.310E-05)	0.133E 01 (0.383E-01)	2.812	0.022	0.182E-03 (0.488E-05)	0.219E 01 (0.638E-01)
1.428	0.020	0.114E-03 (0.298E-05)	0.138E 01 (0.412E-01)	2.834	0.022	0.191E-03 (0.479E-05)	0.215E 01 (0.588E-01)
1.448	0.020	0.163E-03 (0.325E-05)	0.137E 01 (0.314E-01)	2.851	0.011	0.187E-03 (0.667E-05)	0.211E 01 (0.823E-01)
1.469	0.021	0.109E-03 (0.268E-05)	0.143E 01 (0.401E-01)	2.868	0.023	0.178E-03 (0.467E-05)	0.216E 01 (0.616E-01)
1.490	0.021	0.837E-04 (0.227E-05)	0.137E 01 (0.428E-01)	2.890	0.023	0.196E-03 (0.477E-05)	0.217E 01 (0.577E-01)
1.511	0.022	0.101E-03 (0.242E-05)	0.142E 01 (0.389E-01)	2.913	0.023	0.188E-03 (0.474E-05)	0.224E 01 (0.613E-01)
1.531	0.018	0.148E-03 (0.314E-05)	0.145E 01 (0.351E-01)	2.931	0.012	0.205E-03 (0.682E-05)	0.209E 01 (0.763E-01)
1.549	0.018	0.138E-03 (0.294E-05)	0.145E 01 (0.351E-01)	2.949	0.024	0.196E-03 (0.474E-05)	0.216E 01 (0.567E-01)
1.569	0.023	0.996E-04 (0.224E-05)	0.145E 01 (0.371E-01)	2.972	0.024	0.199E-03 (0.469E-05)	0.220E 01 (0.565E-01)
1.590	0.019	0.127E-03 (0.273E-05)	0.142E 01 (0.350E-01)	2.990	0.012	0.213E-03 (0.674E-05)	0.225E 01 (0.774E-01)
1.609	0.019	0.148E-03 (0.288E-05)	0.145E 01 (0.323E-01)	3.008	0.024	0.208E-03 (0.471E-05)	0.228E 01 (0.560E-01)
1.628	0.019	0.145E-03 (0.275E-05)	0.140E 01 (0.305E-01)	3.033	0.025	0.191E-03 (0.453E-05)	0.227E 01 (0.585E-01)
1.650	0.025	0.160E-03 (0.247E-05)	0.132E 01 (0.238E-01)	3.051	0.012	0.187E-03 (0.638E-05)	0.223E 01 (0.825E-01)
1.672	0.020	0.169E-03 (0.281E-05)	0.134E 01 (0.261E-01)	3.070	0.025	0.185E-03 (0.447E-05)	0.231E 01 (0.605E-01)
1.690	0.015	0.171E-03 (0.332E-05)	0.132E 01 (0.298E-01)	3.089	0.013	0.191E-03 (0.622E-05)	0.231E 01 (0.819E-01)
1.708	0.021	0.170E-03 (0.288E-05)	0.130E 01 (0.259E-01)	3.108	0.025	0.193E-03 (0.447E-05)	0.230E 01 (0.578E-01)
1.729	0.021	0.172E-03 (0.298E-05)	0.130E 01 (0.264E-01)	3.127	0.013	0.209E-03 (0.648E-05)	0.224E 01 (0.754E-01)
1.750	0.022	0.214E-03 (0.337E-05)	0.135E 01 (0.246E-01)	3.147	0.026	0.185E-03 (0.436E-05)	0.243E 01 (0.618E-01)
1.769	0.016	0.211E-03 (0.384E-05)	0.138E 01 (0.289E-01)	3.173	0.026	0.186E-03 (0.414E-05)	0.243E 01 (0.586E-01)
1.789	0.022	0.159E-03 (0.302E-05)	0.143E 01 (0.308E-01)	3.193	0.013	0.170E-03 (0.572E-05)	0.253E 01 (0.914E-01)
1.811	0.023	0.159E-03 (0.299E-05)	0.143E 01 (0.309E-01)	3.213	0.027	0.167E-03 (0.390E-05)	0.245E 01 (0.621E-01)
1.831	0.017	0.190E-03 (0.374E-05)	0.144E 01 (0.325E-01)	3.233	0.013	0.159E-03 (0.559E-05)	0.241E 01 (0.916E-01)
1.849	0.017	0.192E-03 (0.392E-05)	0.142E 01 (0.331E-01)	3.247	0.014	0.153E-03 (0.550E-05)	0.247E 01 (0.961E-01)
1.869	0.024	0.205E-03 (0.345E-05)	0.144E 01 (0.276E-01)	3.267	0.028	0.165E-03 (0.386E-05)	0.242E 01 (0.613E-01)
1.890	0.018	0.157E-03 (0.353E-05)	0.144E 01 (0.371E-01)	3.288	0.014	0.161E-03 (0.552E-05)	0.247E 01 (0.916E-01)
1.909	0.018	0.175E-03 (0.383E-05)	0.145E 01 (0.360E-01)	3.309	0.028	0.162E-03 (0.382E-05)	0.248E 01 (0.631E-01)
1.930	0.025	0.195E-03 (0.350E-05)	0.145E 01 (0.295E-01)	3.330	0.014	0.162E-03 (0.552E-05)	0.252E 01 (0.925E-01)
1.952	0.019	0.191E-03 (0.401E-05)	0.141E 01 (0.338E-01)	3.351	0.029	0.173E-03 (0.383E-05)	0.247E 01 (0.593E-01)
1.971	0.019	0.199E-03 (0.396E-05)	0.148E 01 (0.334E-01)	3.373	0.014	0.161E-03 (0.521E-05)	0.257E 01 (0.899E-01)
1.991	0.020	0.217E-03 (0.407E-05)	0.155E 01 (0.327E-01)	3.387	0.015	0.159E-03 (0.519E-05)	0.259E 01 (0.914E-01)
2.011	0.020	0.223E-03 (0.418E-05)	0.152E 01 (0.322E-01)	3.409	0.029	0.163E-03 (0.358E-05)	0.252E 01 (0.599E-01)
2.031	0.020	0.201E-03 (0.415E-05)	0.152E 01 (0.353E-01)	3.431	0.015	0.163E-03 (0.507E-05)	0.255E 01 (0.858E-01)
2.051	0.020	0.188E-03 (0.396E-05)	0.158E 01 (0.371E-01)	3.446	0.015	0.162E-03 (0.505E-05)	0.264E 01 (0.890E-01)
2.072	0.021	0.198E-03 (0.409E-05)	0.160E 01 (0.342E-01)	3.469	0.030	0.160E-03 (0.374E-05)	0.255E 01 (0.571E-01)
2.093	0.021	0.204E-03 (0.408E-05)	0.160E 01 (0.358E-01)	3.491	0.015	0.169E-03 (0.505E-05)	0.256E 01 (0.831E-01)
2.111	0.014	0.188E-03 (0.472E-05)	0.161E 01 (0.449E-01)	3.507	0.015	0.165E-03 (0.499E-05)	0.247E 01 (0.815E-01)
2.129	0.022	0.185E-03 (0.378E-05)	0.155E 01 (0.356E-01)	3.530	0.031	0.166E-03 (0.362E-05)	0.250E 01 (0.592E-01)
2.150	0.022	0.189E-03 (0.387E-05)	0.157E 01 (0.360E-01)	3.553	0.016	0.164E-03 (0.498E-05)	0.253E 01 (0.836E-01)
2.169	0.015	0.184E-03 (0.465E-05)	0.160E 01 (0.452E-01)	3.569	0.016	0.176E-03 (0.507E-05)	0.256E 01 (0.803E-01)
2.188	0.023	0.193E-03 (0.376E-05)	0.161E 01 (0.351E-01)	3.584	0.016	0.184E-03 (0.524E-05)	0.260E 01 (0.802E-01)
2.210	0.023	0.196E-03 (0.374E-05)	0.169E 01 (0.357E-01)	3.608	0.032	0.177E-03 (0.371E-05)	0.262E 01 (0.595E-01)
2.230	0.015	0.183E-03 (0.433E-05)	0.166E 01 (0.438E-01)	3.632	0.016	0.180E-03 (0.536E-05)	0.254E 01 (0.820E-01)
2.249	0.024	0.180E-03 (0.348E-05)	0.167E 01 (0.359E-01)	3.649	0.016	0.182E-03 (0.544E-05)	0.254E 01 (0.822E-01)
2.269	0.016	0.201E-03 (0.447E-05)	0.167E 01 (0.414E-01)	3.665	0.016	0.181E-03 (0.541E-05)	0.259E 01 (0.838E-01)
2.289	0.024	0.218E-03 (0.379E-05)	0.169E 01 (0.374E-01)	3.690	0.033	0.192E-03 (0.384E-05)	0.259E 01 (0.562E-01)
2.309	0.016	0.232E-03 (0.473E-05)	0.172E 01 (0.391E-01)	3.714	0.017	0.190E-03 (0.533E-05)	0.254E 01 (0.776E-01)
2.330	0.025	0.218E-03 (0.365E-05)	0.183E 01 (0.337E-01)	3.731	0.017	0.179E-03 (0.532E-05)	0.254E 01 (0.823E-01)
2.351	0.017	0.204E-03 (0.430E-05)	0.179E 01 (0.418E-01)	3.748	0.017	0.160E-03 (0.524E-05)	0.269E 01 (0.947E-01)
2.367	0.017	0.207E-03 (0.428E-05)	0.187E 01 (0.424E-01)	3.765	0.017	0.161E-03 (0.509E-05)	0.261E 01 (0.891E-01)
2.389	0.026	0.230E-03 (0.368E-05)	0.188E 01 (0.331E-01)	3.791	0.034	0.172E-03 (0.362E-05)	0.263E 01 (0.601E-01)

TABLE 6.

INTEGRAL NEUTRON COUNTING RATE AS A FUNCTION OF INCIDENT NEUTRON ENERGY
FOR AN APPROXIMATE SCATTERING ANGLE OF 90 DEGREES. AT THE LOWER ENERGIES,
THE DATA ARE AVERAGES OVER 0.002 MEV INTERVALS.

IRON FILTERED BEAM

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC.NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC.NEUT.	ERROR (ABS)
0.5707	0.0020	0.631E-03	0.394E-04	0.7608	0.0015	0.973E-03	0.553E-04
0.5727	0.0020	0.631E-03	0.383E-04	0.7624	0.0015	0.947E-03	0.546E-04
0.5747	0.0020	0.585E-03	0.369E-04	0.7647	0.0031	0.928E-03	0.382E-04
0.5767	0.0020	0.559E-03	0.360E-04	0.7671	0.0016	0.912E-03	0.533E-04
0.5788	0.0020	0.548E-03	0.355E-04	0.7686	0.0016	0.923E-03	0.534E-04
0.5808	0.0021	0.570E-03	0.362E-04	0.7702	0.0016	0.938E-03	0.538E-04
0.5829	0.0021	0.594E-03	0.369E-04	0.7726	0.0032	0.949E-03	0.381E-04
0.5850	0.0021	0.580E-03	0.363E-04	0.7749	0.0016	0.944E-03	0.536E-04
0.5871	0.0021	0.557E-03	0.355E-04	0.7765	0.0016	0.926E-03	0.532E-04
0.5886	0.0011	0.516E-03	0.483E-04	0.7781	0.0016	0.900E-03	0.524E-04
0.5907	0.0021	0.520E-03	0.342E-04	0.7805	0.0032	0.853E-03	0.360E-04
0.5923	0.0021	0.479E-03	0.328E-04	0.7829	0.0016	0.814E-03	0.493E-04
0.5944	0.0021	0.458E-03	0.320E-04	0.7845	0.0016	0.798E-03	0.489E-04
0.5966	0.0021	0.421E-03	0.309E-04	0.7862	0.0016	0.737E-03	0.472E-04
0.5987	0.0022	0.405E-03	0.301E-04	0.7886	0.0033	0.761E-03	0.336E-04
0.6009	0.0022	0.398E-03	0.296E-04	0.7910	0.0016	0.795E-03	0.485E-04
0.6031	0.0022	0.379E-03	0.288E-04	0.7927	0.0016	0.837E-03	0.497E-04
0.6047	0.0011	0.347E-03	0.396E-04	0.7943	0.0016	0.839E-03	0.497E-04
0.6063	0.0022	0.296E-03	0.258E-04	0.7968	0.0033	0.837E-03	0.352E-04
0.6085	0.0022	0.288E-03	0.253E-04	0.7993	0.0017	0.781E-03	0.480E-04
0.6108	0.0022	0.290E-03	0.253E-04	0.8010	0.0017	0.732E-03	0.462E-04
0.6130	0.0022	0.326E-03	0.264E-04	0.8026	0.0017	0.675E-03	0.440E-04
0.6147	0.0011	0.340E-03	0.379E-04	0.8043	0.0017	0.641E-03	0.432E-04
0.6163	0.0023	0.357E-03	0.275E-04	0.8060	0.0017	0.605E-03	0.416E-04
0.6186	0.0023	0.343E-03	0.267E-04	0.8085	0.0034	0.592E-03	0.292E-04
0.6209	0.0023	0.334E-03	0.265E-04	0.8110	0.0017	0.653E-03	0.432E-04
0.6226	0.0011	0.334E-03	0.375E-04	0.8120	0.0017	0.657E-03	0.434E-04
0.6243	0.0023	0.327E-03	0.259E-04	0.8145	0.0017	0.683E-03	0.444E-04
0.6266	0.0023	0.328E-03	0.263E-04	0.8162	0.0017	0.708E-03	0.449E-04
0.6289	0.0023	0.331E-03	0.264E-04	0.8188	0.0034	0.745E-03	0.324E-04
0.6307	0.0012	0.323E-03	0.367E-04	0.8213	0.0017	0.740E-03	0.459E-04
0.6324	0.0023	0.330E-03	0.264E-04	0.8231	0.0017	0.724E-03	0.454E-04
0.6347	0.0024	0.308E-03	0.257E-04	0.8248	0.0017	0.738E-03	0.464E-04
0.6365	0.0012	0.276E-03	0.342E-04	0.8266	0.0017	0.735E-03	0.454E-04
0.6383	0.0024	0.295E-03	0.253E-04	0.8283	0.0018	0.740E-03	0.457E-04
0.6407	0.0024	0.333E-03	0.266E-04	0.8301	0.0018	0.727E-03	0.453E-04
0.6431	0.0024	0.325E-03	0.259E-04	0.8327	0.0035	0.767E-03	0.328E-04
0.6449	0.0012	0.310E-03	0.363E-04	0.8354	0.0018	0.816E-03	0.478E-04
0.6467	0.0024	0.323E-03	0.256E-04	0.8371	0.0018	0.823E-03	0.476E-04
0.6485	0.0012	0.289E-03	0.350E-04	0.8389	0.0018	0.838E-03	0.484E-04
0.6503	0.0024	0.326E-03	0.260E-04	0.8407	0.0018	0.850E-03	0.484E-04
0.6528	0.0025	0.375E-03	0.276E-04	0.8425	0.0018	0.756E-03	0.457E-04
0.6546	0.0012	0.446E-03	0.421E-04	0.8443	0.0018	0.677E-03	0.439E-04
0.6565	0.0025	0.491E-03	0.313E-04	0.8461	0.0018	0.619E-03	0.411E-04
0.6589	0.0025	0.554E-03	0.331E-04	0.8479	0.0018	0.613E-03	0.409E-04
0.6608	0.0012	0.621E-03	0.493E-04	0.8507	0.0036	0.645E-03	0.296E-04
0.6627	0.0025	0.679E-03	0.361E-04	0.8534	0.0018	0.763E-03	0.455E-04
0.6646	0.0013	0.753E-03	0.536E-04	0.8552	0.0018	0.875E-03	0.485E-04
0.6665	0.0025	0.806E-03	0.390E-04	0.8571	0.0018	0.914E-03	0.496E-04
0.6690	0.0025	0.835E-03	0.397E-04	0.8589	0.0019	0.941E-03	0.500E-04
0.6709	0.0013	0.873E-03	0.576E-04	0.8608	0.0019	0.930E-03	0.497E-04
0.6728	0.0026	0.928E-03	0.418E-04	0.8627	0.0019	0.851E-03	0.481E-04
0.6748	0.0013	0.100E-02	0.611E-04	0.8645	0.0019	0.828E-03	0.466E-04
0.6767	0.0026	0.103E-02	0.438E-04	0.8664	0.0019	0.749E-03	0.446E-04
0.6787	0.0013	0.102E-02	0.612E-04	0.8683	0.0019	0.669E-03	0.418E-04
0.6806	0.0026	0.982E-03	0.426E-04	0.8702	0.0019	0.647E-03	0.411E-04
0.6826	0.0013	0.938E-03	0.589E-04	0.8720	0.0019	0.600E-03	0.400E-04
0.6845	0.0026	0.867E-03	0.398E-04	0.8739	0.0019	0.579E-03	0.391E-04
0.6865	0.0013	0.757E-03	0.539E-04	0.8758	0.0019	0.632E-03	0.406E-04
0.6885	0.0027	0.724E-03	0.364E-04	0.8778	0.0019	0.653E-03	0.413E-04
0.6905	0.0013	0.662E-03	0.491E-04	0.8806	0.0038	0.692E-03	0.300E-04
0.6925	0.0027	0.602E-03	0.332E-04	0.8835	0.0019	0.733E-03	0.436E-04
0.6945	0.0013	0.550E-03	0.460E-04	0.8855	0.0019	0.710E-03	0.427E-04
0.6966	0.0027	0.510E-03	0.306E-04	0.8874	0.0019	0.715E-03	0.426E-04
0.6986	0.0014	0.477E-03	0.416E-04	0.8893	0.0020	0.690E-03	0.423E-04
0.7006	0.0027	0.433E-03	0.202E-04	0.8913	0.0020	0.677E-03	0.414E-04
0.7027	0.0014	0.443E-03	0.406E-04	0.8933	0.0020	0.681E-03	0.416E-04
0.7047	0.0028	0.514E-03	0.306E-04	0.8952	0.0020	0.677E-03	0.416E-04
0.7068	0.0014	0.634E-03	0.476E-04	0.8972	0.0020	0.707E-03	0.431E-04
0.7089	0.0028	0.789E-03	0.372E-04	0.8992	0.0020	0.685E-03	0.415E-04
0.7110	0.0014	0.903E-03	0.559E-04	0.9012	0.0020	0.714E-03	0.424E-04
0.7124	0.0014	0.946E-03	0.573E-04	0.9032	0.0020	0.706E-03	0.419E-04
0.7145	0.0028	0.100E-02	0.416E-04	0.9052	0.0020	0.667E-03	0.409E-04
0.7166	0.0014	0.996E-03	0.586E-04	0.9072	0.0020	0.686E-03	0.415E-04
0.7187	0.0028	0.989E-03	0.410E-04	0.9092	0.0020	0.669E-03	0.409E-04
0.7208	0.0014	0.991E-03	0.570E-04	0.9112	0.0020	0.678E-03	0.409E-04
0.7223	0.0014	0.100E-02	0.581E-04	0.9132	0.0020	0.678E-03	0.410E-04
0.7244	0.0029	0.946E-03	0.400E-04	0.9153	0.0020	0.657E-03	0.405E-04
0.7266	0.0014	0.945E-03	0.565E-04	0.9173	0.0020	0.688E-03	0.412E-04
0.7287	0.0029	0.983E-03	0.406E-04	0.9193	0.0021	0.673E-03	0.406E-04
0.7309	0.0015	0.948E-03	0.514E-04	0.9214	0.0021	0.664E-03	0.403E-04
0.7323	0.0015	0.973E-03	0.570E-04	0.9235	0.0021	0.651E-03	0.399E-04
0.7345	0.0029	0.946E-03	0.397E-04	0.9255	0.0021	0.609E-03	0.386E-04
0.7367	0.0015	0.864E-03	0.537E-04	0.9276	0.0021	0.571E-03	0.372E-04
0.7392	0.0015	0.840E-03	0.577E-04	0.9297	0.0021	0.520E-03	0.358E-04
0.7404	0.0030	0.866E-03	0.377E-04	0.9318	0.0021	0.496E-03	0.349E-04
0.7427	0.0015	0.929E-03	0.551E-04	0.9339	0.0021	0.482E-03	0.340E-04
0.7449	0.0030	0.928E-03	0.388E-04	0.9360	0.0021	0.449E-03	0.335E-04
0.7471	0.0015	0.832E-03	0.520E-04	0.9381	0.0021	0.474E-03	0.340E-04
0.7486	0.0015	0.773E-03	0.499E-04	0.9402	0.0021	0.495E-03	0.347E-04
0.7502	0.0015	0.710E-03	0.478E-04	0.9423	0.0021	0.497E-03	0.347E-04
0.7524	0.0030	0.683E-03	0.329E-04	0.9445	0.0021	0.443E-03	0.330E-04
0.7547	0.0015	0.700E-03	0.472E-04	0.9466	0.0021	0.402E-03	0.314E-04
0.7562	0.0015	0.768E-03	0.493E-04	0.9487	0.0021	0.366E-03	0.301E-04
0.7585	0.0031	0.894E-03	0.376E-04	0.9509	0.0022	0.360E-03	0.296E-04

TABLE 6. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC.NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC.NEUT.	ERROR (ABS)
0.9531	0.0022	0.404E-03	0.313E-04	1.1975	0.0030	0.438E-03	0.261E-04
0.9552	0.0022	0.461E-03	0.336E-04	1.2005	0.0031	0.475E-03	0.268E-04
0.9574	0.0022	0.560E-03	0.363E-04	1.2036	0.0031	0.483E-03	0.274E-04
0.9596	0.0022	0.679E-03	0.396E-04	1.2067	0.0031	0.504E-03	0.279E-04
0.9618	0.0022	0.732E-03	0.413E-04	1.2098	0.0031	0.513E-03	0.280E-04
0.9640	0.0022	0.760E-03	0.419E-04	1.2129	0.0031	0.517E-03	0.277E-04
0.9662	0.0022	0.721E-03	0.408E-04	1.2160	0.0031	0.527E-03	0.278E-04
0.9684	0.0022	0.650E-03	0.388E-04	1.2191	0.0031	0.534E-03	0.281E-04
0.9706	0.0022	0.562E-03	0.360E-04	1.2222	0.0031	0.531E-03	0.279E-04
0.9728	0.0022	0.502E-03	0.342E-04	1.2254	0.0032	0.532E-03	0.281E-04
0.9751	0.0022	0.483E-03	0.331E-04	1.2285	0.0032	0.543E-03	0.283E-04
0.9773	0.0022	0.505E-03	0.343E-04	1.2317	0.0032	0.569E-03	0.285E-04
0.9796	0.0023	0.541E-03	0.358E-04	1.2349	0.0032	0.559E-03	0.283E-04
0.9818	0.0023	0.623E-03	0.375E-04	1.2381	0.0032	0.548E-03	0.281E-04
0.9841	0.0023	0.650E-03	0.385E-04	1.2413	0.0032	0.552E-03	0.283E-04
0.9864	0.0023	0.641E-03	0.384E-04	1.2445	0.0032	0.537E-03	0.282E-04
0.9886	0.0023	0.629E-03	0.376E-04	1.2478	0.0032	0.540E-03	0.282E-04
0.9909	0.0023	0.540E-03	0.353E-04	1.2510	0.0033	0.556E-03	0.282E-04
0.9932	0.0023	0.500E-03	0.341E-04	1.2543	0.0033	0.570E-03	0.284E-04
0.9955	0.0023	0.446E-03	0.322E-04	1.2576	0.0033	0.602E-03	0.293E-04
0.9979	0.0023	0.442E-03	0.320E-04	1.2609	0.0033	0.617E-03	0.300E-04
1.0002	0.0023	0.462E-03	0.325E-04	1.2642	0.0033	0.615E-03	0.298E-04
1.0025	0.0023	0.516E-03	0.341E-04	1.2675	0.0033	0.622E-03	0.300E-04
1.0049	0.0023	0.528E-03	0.346E-04	1.2708	0.0033	0.598E-03	0.287E-04
1.0072	0.0024	0.491E-03	0.338E-04	1.2741	0.0033	0.570E-03	0.280E-04
1.0096	0.0024	0.495E-03	0.338E-04	1.2775	0.0034	0.545E-03	0.274E-04
1.0119	0.0024	0.454E-03	0.321E-04	1.2808	0.0034	0.497E-03	0.265E-04
1.0143	0.0024	0.427E-03	0.314E-04	1.2842	0.0034	0.499E-03	0.266E-04
1.0167	0.0024	0.420E-03	0.308E-04	1.2876	0.0034	0.474E-03	0.263E-04
1.0191	0.0024	0.405E-03	0.306E-04	1.2910	0.0034	0.482E-03	0.259E-04
1.0215	0.0024	0.451E-03	0.320E-04	1.2944	0.0034	0.478E-03	0.260E-04
1.0239	0.0024	0.526E-03	0.340E-04	1.2979	0.0034	0.476E-03	0.260E-04
1.0263	0.0024	0.620E-03	0.368E-04	1.3013	0.0035	0.486E-03	0.265E-04
1.0287	0.0024	0.666E-03	0.379E-04	1.3048	0.0035	0.507E-03	0.270E-04
1.0311	0.0024	0.692E-03	0.378E-04	1.3083	0.0035	0.544E-03	0.280E-04
1.0336	0.0024	0.734E-03	0.384E-04	1.3118	0.0035	0.599E-03	0.291E-04
1.0360	0.0025	0.697E-03	0.374E-04	1.3153	0.0035	0.651E-03	0.302E-04
1.0385	0.0025	0.701E-03	0.373E-04	1.3188	0.0035	0.686E-03	0.306E-04
1.0409	0.0025	0.641E-03	0.361E-04	1.3223	0.0035	0.693E-03	0.308E-04
1.0434	0.0025	0.651E-03	0.359E-04	1.3258	0.0036	0.690E-03	0.309E-04
1.0459	0.0025	0.659E-03	0.360E-04	1.3294	0.0036	0.686E-03	0.310E-04
1.0484	0.0025	0.709E-03	0.374E-04	1.3330	0.0036	0.665E-03	0.298E-04
1.0509	0.0025	0.725E-03	0.372E-04	1.3366	0.0036	0.678E-03	0.301E-04
1.0534	0.0025	0.730E-03	0.368E-04	1.3402	0.0036	0.686E-03	0.303E-04
1.0559	0.0025	0.707E-03	0.367E-04	1.3438	0.0036	0.651E-03	0.297E-04
1.0585	0.0025	0.672E-03	0.350E-04	1.3474	0.0036	0.631E-03	0.298E-04
1.0610	0.0025	0.610E-03	0.336E-04	1.3511	0.0037	0.585E-03	0.280E-04
1.0635	0.0026	0.545E-03	0.319E-04	1.3547	0.0037	0.560E-03	0.272E-04
1.0661	0.0026	0.480E-03	0.298E-04	1.3584	0.0037	0.555E-03	0.270E-04
1.0687	0.0026	0.448E-03	0.289E-04	1.3621	0.0037	0.568E-03	0.271E-04
1.0712	0.0026	0.414E-03	0.278E-04	1.3658	0.0037	0.514E-03	0.261E-04
1.0738	0.0026	0.431E-03	0.277E-04	1.3695	0.0037	0.507E-03	0.257E-04
1.0764	0.0026	0.412E-03	0.275E-04	1.3733	0.0037	0.492E-03	0.250E-04
1.0790	0.0026	0.412E-03	0.275E-04	1.3770	0.0038	0.476E-03	0.245E-04
1.0816	0.0026	0.473E-03	0.293E-04	1.3808	0.0038	0.489E-03	0.244E-04
1.0843	0.0026	0.475E-03	0.295E-04	1.3846	0.0038	0.478E-03	0.249E-04
1.0869	0.0026	0.492E-03	0.300E-04	1.3884	0.0038	0.508E-03	0.260E-04
1.0895	0.0026	0.492E-03	0.300E-04	1.3922	0.0038	0.561E-03	0.285E-04
1.0922	0.0027	0.476E-03	0.294E-04	1.3960	0.0038	0.600E-03	0.276E-04
1.0948	0.0027	0.410E-03	0.277E-04	1.3999	0.0039	0.624E-03	0.280E-04
1.0975	0.0027	0.394E-03	0.269E-04	1.4037	0.0039	0.662E-03	0.284E-04
1.1002	0.0027	0.384E-03	0.268E-04	1.4076	0.0039	0.677E-03	0.284E-04
1.1029	0.0027	0.403E-03	0.279E-04	1.4115	0.0039	0.653E-03	0.282E-04
1.1056	0.0027	0.396E-03	0.275E-04	1.4154	0.0039	0.663E-03	0.281E-04
1.1083	0.0027	0.405E-03	0.275E-04	1.4193	0.0039	0.606E-03	0.269E-04
1.1110	0.0027	0.403E-03	0.274E-04	1.4233	0.0040	0.588E-03	0.266E-04
1.1137	0.0027	0.418E-03	0.278E-04	1.4272	0.0040	0.545E-03	0.257E-04
1.1165	0.0027	0.400E-03	0.272E-04	1.4312	0.0040	0.571E-03	0.258E-04
1.1192	0.0028	0.424E-03	0.277E-04	1.4352	0.0040	0.605E-03	0.264E-04
1.1220	0.0028	0.425E-03	0.283E-04	1.4392	0.0040	0.616E-03	0.267E-04
1.1247	0.0028	0.448E-03	0.286E-04	1.4432	0.0040	0.642E-03	0.272E-04
1.1275	0.0028	0.448E-03	0.286E-04	1.4472	0.0041	0.654E-03	0.272E-04
1.1303	0.0028	0.469E-03	0.287E-04	1.4513	0.0041	0.645E-03	0.272E-04
1.1331	0.0028	0.495E-03	0.294E-04	1.4554	0.0041	0.639E-03	0.267E-04
1.1359	0.0028	0.515E-03	0.297E-04	1.4595	0.0041	0.608E-03	0.260E-04
1.1388	0.0028	0.482E-03	0.288E-04	1.4636	0.0041	0.561E-03	0.250E-04
1.1416	0.0028	0.529E-03	0.300E-04	1.4677	0.0041	0.556E-03	0.250E-04
1.1444	0.0028	0.531E-03	0.301E-04	1.4719	0.0042	0.579E-03	0.248E-04
1.1473	0.0029	0.490E-03	0.291E-04	1.4761	0.0042	0.606E-03	0.256E-04
1.1501	0.0029	0.438E-03	0.270E-04	1.4802	0.0042	0.593E-03	0.255E-04
1.1530	0.0029	0.407E-03	0.261E-04	1.4844	0.0042	0.612E-03	0.259E-04
1.1559	0.0029	0.349E-03	0.243E-04	1.4887	0.0042	0.610E-03	0.259E-04
1.1588	0.0029	0.327E-03	0.238E-04	1.4929	0.0042	0.598E-03	0.251E-04
1.1617	0.0029	0.318E-03	0.235E-04	1.4971	0.0043	0.600E-03	0.252E-04
1.1646	0.0029	0.310E-03	0.233E-04	1.5014	0.0043	0.636E-03	0.259E-04
1.1676	0.0029	0.339E-03	0.240E-04	1.5057	0.0043	0.650E-03	0.263E-04
1.1705	0.0029	0.359E-03	0.244E-04	1.5100	0.0043	0.644E-03	0.258E-04
1.1734	0.0030	0.393E-03	0.255E-04	1.5143	0.0043	0.654E-03	0.261E-04
1.1763	0.0030	0.447E-03	0.271E-04	1.5187	0.0044	0.660E-03	0.261E-04
1.1794	0.0030	0.467E-03	0.275E-04	1.5230	0.0044	0.687E-03	0.269E-04
1.1824	0.0030	0.493E-03	0.283E-04	1.5274	0.0044	0.683E-03	0.270E-04
1.1854	0.0030	0.487E-03	0.283E-04	1.5318	0.0044	0.686E-03	0.267E-04
1.1884	0.0030	0.446E-03	0.270E-04	1.5363	0.0044	0.652E-03	0.257E-04
1.1914	0.0030	0.418E-03	0.259E-04	1.5407	0.0044	0.633E-03	0.254E-04
1.1944	0.0030	0.428E-03	0.257E-04	1.5452	0.0045	0.618E-03	0.252E-04

TABLE 6. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)
1.5496	0.0045	0.6292-03	0.2562-04	2.0837	0.0070	0.6752-03	0.2512-04
1.5501	0.0045	0.5872-03	0.2422-04	2.0908	0.0070	0.7122-03	0.2542-04
1.5587	0.0045	0.5742-03	0.2412-04	2.0978	0.0071	0.6872-03	0.2502-04
1.5632	0.0045	0.5752-03	0.2402-04	2.1049	0.0071	0.6552-03	0.2462-04
1.5678	0.0046	0.5872-03	0.2442-04	2.1120	0.0071	0.6142-03	0.2322-04
1.5723	0.0046	0.6212-03	0.2452-04	2.1192	0.0072	0.6002-03	0.2312-04
1.5769	0.0046	0.6612-03	0.2542-04	2.1264	0.0072	0.6232-03	0.2412-04
1.5815	0.0046	0.6642-03	0.2572-04	2.1336	0.0073	0.6122-03	0.2322-04
1.5862	0.0046	0.6622-03	0.2602-04	2.1409	0.0073	0.6252-03	0.2382-04
1.5908	0.0047	0.6522-03	0.2552-04	2.1482	0.0073	0.6232-03	0.2422-04
1.5955	0.0047	0.6442-03	0.2532-04	2.1556	0.0074	0.6292-03	0.2402-04
1.6002	0.0047	0.6662-03	0.2582-04	2.1630	0.0074	0.6322-03	0.2502-04
1.6049	0.0047	0.6652-03	0.2612-04	2.1704	0.0074	0.6252-03	0.2412-04
1.6097	0.0048	0.6822-03	0.2662-04	2.1779	0.0075	0.6132-03	0.2422-04
1.6145	0.0048	0.6922-03	0.2592-04	2.1854	0.0075	0.6192-03	0.2472-04
1.6192	0.0048	0.6982-03	0.2602-04	2.1929	0.0076	0.6162-03	0.2382-04
1.6240	0.0048	0.7022-03	0.2622-04	2.2005	0.0076	0.6202-03	0.2432-04
1.6289	0.0048	0.6692-03	0.2602-04	2.2081	0.0076	0.6512-03	0.2332-04
1.6337	0.0049	0.6352-03	0.2472-04	2.2158	0.0077	0.6472-03	0.2532-04
1.6386	0.0049	0.6552-03	0.2492-04	2.2235	0.0077	0.6252-03	0.2482-04
1.6435	0.0049	0.6682-03	0.2552-04	2.2312	0.0078	0.6382-03	0.2462-04
1.6484	0.0049	0.7182-03	0.2672-04	2.2390	0.0078	0.6242-03	0.2452-04
1.6533	0.0049	0.7242-03	0.2582-04	2.2468	0.0078	0.6302-03	0.2512-04
1.6583	0.0050	0.6942-03	0.2532-04	2.2547	0.0079	0.6202-03	0.2452-04
1.6633	0.0050	0.6672-03	0.2512-04	2.2626	0.0079	0.5992-03	0.2432-04
1.6683	0.0050	0.6312-03	0.2462-04	2.2705	0.0080	0.6282-03	0.2472-04
1.6733	0.0050	0.6122-03	0.2372-04	2.2785	0.0080	0.6702-03	0.2582-04
1.6784	0.0051	0.6262-03	0.2422-04	2.2865	0.0081	0.7062-03	0.2692-04
1.6834	0.0051	0.6422-03	0.2462-04	2.2946	0.0081	0.7032-03	0.2622-04
1.6885	0.0051	0.6632-03	0.2532-04	2.3027	0.0081	0.7162-03	0.2672-04
1.6936	0.0051	0.6772-03	0.2502-04	2.3109	0.0082	0.6982-03	0.2632-04
1.6988	0.0052	0.6822-03	0.2532-04	2.3191	0.0082	0.7022-03	0.2652-04
1.7039	0.0052	0.6722-03	0.2572-04	2.3273	0.0083	0.7002-03	0.2712-04
1.7091	0.0052	0.6542-03	0.2562-04	2.3356	0.0083	0.6802-03	0.2592-04
1.7143	0.0052	0.6472-03	0.2442-04	2.3439	0.0084	0.6612-03	0.2612-04
1.7196	0.0052	0.6332-03	0.2452-04	2.3523	0.0084	0.6682-03	0.2542-04
1.7248	0.0053	0.6382-03	0.2482-04	2.3607	0.0084	0.6542-03	0.2572-04
1.7301	0.0053	0.6402-03	0.2452-04	2.3692	0.0085	0.6642-03	0.2662-04
1.7354	0.0053	0.6582-03	0.2492-04	2.3777	0.0085	0.6692-03	0.2602-04
1.7408	0.0053	0.6812-03	0.2572-04	2.3863	0.0086	0.6862-03	0.2692-04
1.7461	0.0054	0.6932-03	0.2612-04	2.3949	0.0086	0.6692-03	0.2592-04
1.7515	0.0054	0.7162-03	0.2612-04	2.4035	0.0087	0.6622-03	0.2632-04
1.7569	0.0054	0.7572-03	0.2692-04	2.4122	0.0087	0.6192-03	0.2532-04
1.7623	0.0054	0.7522-03	0.2702-04	2.4210	0.0088	0.6182-03	0.2552-04
1.7678	0.0055	0.7212-03	0.2682-04	2.4298	0.0088	0.6272-03	0.2642-04
1.7733	0.0055	0.6672-03	0.2522-04	2.4386	0.0089	0.6012-03	0.2502-04
1.7788	0.0055	0.6112-03	0.2422-04	2.4475	0.0089	0.5822-03	0.2512-04
1.7843	0.0055	0.5942-03	0.2392-04	2.4565	0.0090	0.6182-03	0.2542-04
1.7899	0.0056	0.5812-03	0.2422-04	2.4655	0.0090	0.6292-03	0.2622-04
1.7955	0.0056	0.5952-03	0.2332-04	2.4745	0.0091	0.6562-03	0.2652-04
1.8011	0.0056	0.5922-03	0.2342-04	2.4836	0.0091	0.6672-03	0.2732-04
1.8067	0.0057	0.5932-03	0.2352-04	2.4927	0.0092	0.6542-03	0.2702-04
1.8124	0.0057	0.5952-03	0.2332-04	2.5019	0.0092	0.6352-03	0.2702-04
1.8181	0.0057	0.6402-03	0.2402-04	2.5112	0.0093	0.6242-03	0.2652-04
1.8239	0.0057	0.6562-03	0.2452-04	2.5205	0.0093	0.6222-03	0.2702-04
1.8296	0.0058	0.6542-03	0.2482-04	2.5298	0.0094	0.6032-03	0.2742-04
1.8353	0.0058	0.6432-03	0.2412-04	2.5392	0.0094	0.5672-03	0.2582-04
1.8411	0.0058	0.6562-03	0.2422-04	2.5487	0.0095	0.5762-03	0.2652-04
1.8470	0.0058	0.6342-03	0.2422-04	2.5582	0.0095	0.5642-03	0.2582-04
1.8528	0.0059	0.6572-03	0.2412-04	2.5677	0.0096	0.5602-03	0.2662-04
1.8587	0.0059	0.6712-03	0.2432-04	2.5773	0.0096	0.5302-03	0.2532-04
1.8646	0.0059	0.6742-03	0.2462-04	2.5870	0.0097	0.5362-03	0.2612-04
1.8706	0.0060	0.6602-03	0.2382-04	2.5967	0.0097	0.5562-03	0.2592-04
1.8765	0.0060	0.6332-03	0.2352-04	2.6065	0.0098	0.5942-03	0.2792-04
1.8825	0.0060	0.5942-03	0.2292-04	2.6163	0.0099	0.6012-03	0.2722-04
1.8886	0.0060	0.5802-03	0.2312-04	2.6262	0.0099	0.6122-03	0.2822-04
1.8946	0.0061	0.5572-03	0.2232-04	2.6361	0.0100	0.6102-03	0.2802-04
1.9007	0.0061	0.5522-03	0.2242-04	2.6461	0.0100	0.6062-03	0.2882-04
1.9068	0.0061	0.5642-03	0.2292-04	2.6562	0.0101	0.6112-03	0.2872-04
1.9130	0.0062	0.5542-03	0.2222-04	2.6663	0.0101	0.5542-03	0.2852-04
1.9191	0.0062	0.5482-03	0.2212-04	2.6765	0.0102	0.5232-03	0.2772-04
1.9253	0.0062	0.5422-03	0.2252-04	2.6867	0.0103	0.5372-03	0.2982-04
1.9316	0.0062	0.5552-03	0.2212-04	2.6970	0.0103	0.5552-03	0.3052-04
1.9378	0.0063	0.5942-03	0.2302-04	2.7073	0.0104	0.6072-03	0.3372-04
1.9441	0.0063	0.6302-03	0.2402-04	2.7177	0.0104	0.6242-03	0.3372-04
1.9504	0.0063	0.6662-03	0.2442-04	2.7282	0.0105	0.6272-03	0.3502-04
1.9568	0.0064	0.6482-03	0.2402-04	2.7387	0.0106	0.6042-03	0.3332-04
1.9632	0.0064	0.6452-03	0.2402-04	2.7493	0.0106	0.6102-03	0.3422-04
1.9696	0.0064	0.6652-03	0.2472-04	2.7600	0.0107	0.5842-03	0.3272-04
1.9761	0.0065	0.6872-03	0.2442-04	2.7707	0.0107	0.6122-03	0.3382-04
1.9825	0.0065	0.7322-03	0.2552-04	2.7814	0.0108	0.5802-03	0.3332-04
1.9891	0.0065	0.7332-03	0.2602-04	2.7923	0.0109	0.5982-03	0.3302-04
1.9956	0.0066	0.7262-03	0.2522-04	2.8032	0.0109	0.5982-03	0.3322-04
2.0022	0.0066	0.7212-03	0.2542-04	2.8141	0.0110	0.5742-03	0.3192-04
2.0088	0.0066	0.6952-03	0.2552-04	2.8252	0.0111	0.5552-03	0.3292-04
2.0154	0.0067	0.6742-03	0.2432-04	2.8363	0.0111	0.5472-03	0.3132-04
2.0221	0.0067	0.6482-03	0.2412-04	2.8474	0.0112	0.5392-03	0.3112-04
2.0288	0.0067	0.6232-03	0.2412-04	2.8587	0.0113	0.5252-03	0.2992-04
2.0356	0.0068	0.6032-03	0.2302-04	2.8700	0.0113	0.5542-03	0.3152-04
2.0423	0.0068	0.6172-03	0.2352-04	2.8813	0.0114	0.5772-03	0.3152-04
2.0492	0.0068	0.6302-03	0.2422-04	2.8927	0.0115	0.6082-03	0.3202-04
2.0560	0.0069	0.6412-03	0.2492-04	2.9042	0.0115	0.6142-03	0.3162-04
2.0629	0.0069	0.6442-03	0.2422-04	2.9158	0.0116	0.5742-03	0.3082-04
2.0698	0.0069	0.6432-03	0.2482-04	2.9274	0.0117	0.5632-03	0.3112-04
2.0768	0.0070	0.6592-03	0.2472-04	2.9391	0.0117	0.5752-03	0.3082-04

TABLE 6. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)
2.9509	0.0118	0.573E-03	0.305E-04	4.9999	0.0223	0.557E-03	0.229E-04
2.9628	0.0119	0.598E-03	0.312E-04	4.5223	0.0224	0.560E-03	0.230E-04
2.9747	0.0120	0.613E-03	0.310E-04	4.5448	0.0226	0.551E-03	0.229E-04
2.9867	0.0120	0.630E-03	0.326E-04	4.5675	0.0228	0.547E-03	0.231E-04
2.9987	0.0121	0.628E-03	0.311E-04	4.5903	0.0229	0.543E-03	0.229E-04
3.0109	0.0122	0.609E-03	0.304E-04	4.6133	0.0231	0.541E-03	0.230E-04
3.0231	0.0122	0.565E-03	0.293E-04	4.6366	0.0233	0.548E-03	0.223E-04
3.0354	0.0123	0.580E-03	0.284E-04	4.6599	0.0235	0.553E-03	0.224E-04
3.0477	0.0124	0.507E-03	0.277E-04	4.6835	0.0236	0.561E-03	0.226E-04
3.0601	0.0125	0.534E-03	0.283E-04	4.7072	0.0238	0.548E-03	0.223E-04
3.0727	0.0125	0.530E-03	0.284E-04	4.7311	0.0240	0.549E-03	0.224E-04
3.0852	0.0126	0.531E-03	0.274E-04	4.7552	0.0242	0.524E-03	0.219E-04
3.0979	0.0127	0.555E-03	0.279E-04	4.7795	0.0244	0.527E-03	0.221E-04
3.1107	0.0128	0.537E-03	0.275E-04	4.8040	0.0246	0.524E-03	0.214E-04
3.1235	0.0129	0.544E-03	0.276E-04	4.8287	0.0248	0.539E-03	0.217E-04
3.1364	0.0129	0.521E-03	0.270E-04	4.8535	0.0249	0.528E-03	0.215E-04
3.1494	0.0130	0.507E-03	0.267E-04	4.8786	0.0251	0.544E-03	0.220E-04
3.1624	0.0131	0.539E-03	0.275E-04	4.9038	0.0253	0.528E-03	0.218E-04
3.1756	0.0132	0.526E-03	0.271E-04	4.9292	0.0255	0.537E-03	0.224E-04
3.1889	0.0133	0.529E-03	0.273E-04	4.9549	0.0257	0.551E-03	0.226E-04
3.2021	0.0134	0.528E-03	0.271E-04	4.9807	0.0259	0.537E-03	0.215E-04
3.2155	0.0134	0.508E-03	0.268E-04	5.0068	0.0261	0.546E-03	0.218E-04
3.2290	0.0135	0.478E-03	0.261E-04	5.0330	0.0263	0.558E-03	0.222E-04
3.2425	0.0136	0.459E-03	0.254E-04	5.0595	0.0266	0.566E-03	0.225E-04
3.2562	0.0137	0.470E-03	0.250E-04	5.0861	0.0268	0.574E-03	0.229E-04
3.2699	0.0138	0.494E-03	0.258E-04	5.1130	0.0270	0.556E-03	0.227E-04
3.2838	0.0139	0.497E-03	0.255E-04	5.1401	0.0272	0.562E-03	0.222E-04
3.2977	0.0140	0.491E-03	0.257E-04	5.1674	0.0274	0.563E-03	0.222E-04
3.3117	0.0140	0.520E-03	0.263E-04	5.1949	0.0276	0.563E-03	0.223E-04
3.3258	0.0141	0.532E-03	0.262E-04	5.2227	0.0279	0.575E-03	0.226E-04
3.3399	0.0142	0.531E-03	0.261E-04	5.2506	0.0281	0.557E-03	0.224E-04
3.3542	0.0143	0.529E-03	0.261E-04	5.2788	0.0283	0.553E-03	0.227E-04
3.3686	0.0144	0.541E-03	0.264E-04	5.3072	0.0285	0.547E-03	0.217E-04
3.3830	0.0145	0.516E-03	0.259E-04	5.3359	0.0288	0.556E-03	0.220E-04
3.3976	0.0146	0.516E-03	0.258E-04	5.3648	0.0290	0.577E-03	0.227E-04
3.4122	0.0147	0.519E-03	0.259E-04	5.3939	0.0292	0.570E-03	0.224E-04
3.4269	0.0148	0.522E-03	0.259E-04	5.4233	0.0295	0.573E-03	0.226E-04
3.4410	0.0149	0.523E-03	0.259E-04	5.4529	0.0297	0.563E-03	0.226E-04
3.4567	0.0150	0.504E-03	0.248E-04	5.4827	0.0300	0.579E-03	0.223E-04
3.4717	0.0151	0.517E-03	0.251E-04	5.5128	0.0302	0.567E-03	0.220E-04
3.4869	0.0152	0.509E-03	0.252E-04	5.5431	0.0305	0.568E-03	0.221E-04
3.5021	0.0153	0.501E-03	0.247E-04	5.5737	0.0307	0.565E-03	0.223E-04
3.5174	0.0154	0.502E-03	0.257E-04	5.6046	0.0310	0.570E-03	0.226E-04
3.5328	0.0155	0.531E-03	0.254E-04	5.6357	0.0312	0.570E-03	0.221E-04
3.5484	0.0156	0.533E-03	0.255E-04	5.6671	0.0315	0.575E-03	0.221E-04
3.5640	0.0157	0.547E-03	0.260E-04	5.6987	0.0318	0.566E-03	0.222E-04
3.5797	0.0158	0.561E-03	0.263E-04	5.7306	0.0320	0.567E-03	0.220E-04
3.5956	0.0159	0.562E-03	0.258E-04	5.7628	0.0323	0.565E-03	0.223E-04
3.6115	0.0160	0.563E-03	0.258E-04	5.7952	0.0326	0.571E-03	0.224E-04
3.6276	0.0161	0.552E-03	0.250E-04	5.8279	0.0329	0.556E-03	0.214E-04
3.6437	0.0162	0.545E-03	0.249E-04	5.8609	0.0331	0.554E-03	0.214E-04
3.6600	0.0163	0.506E-03	0.249E-04	5.8942	0.0334	0.566E-03	0.218E-04
3.6764	0.0164	0.514E-03	0.249E-04	5.9277	0.0337	0.570E-03	0.221E-04
3.6929	0.0165	0.580E-03	0.257E-04	5.9616	0.0340	0.581E-03	0.225E-04
3.7095	0.0167	0.602E-03	0.261E-04	5.9957	0.0343	0.559E-03	0.217E-04
3.7262	0.0168	0.544E-03	0.252E-04	6.0302	0.0346	0.562E-03	0.215E-04
3.7430	0.0169	0.511E-03	0.243E-04	6.0649	0.0349	0.557E-03	0.215E-04
3.7599	0.0170	0.520E-03	0.246E-04	6.0999	0.0352	0.560E-03	0.217E-04
3.7770	0.0171	0.511E-03	0.235E-04	6.1353	0.0355	0.556E-03	0.218E-04
3.7942	0.0172	0.529E-03	0.239E-04	6.1709	0.0358	0.557E-03	0.212E-04
3.8114	0.0173	0.540E-03	0.242E-04	6.2069	0.0361	0.552E-03	0.212E-04
3.8289	0.0175	0.514E-03	0.238E-04	6.2432	0.0364	0.566E-03	0.215E-04
3.8464	0.0176	0.530E-03	0.241E-04	6.2798	0.0368	0.559E-03	0.215E-04
3.8640	0.0177	0.523E-03	0.237E-04	6.3167	0.0371	0.553E-03	0.209E-04
3.8818	0.0178	0.538E-03	0.243E-04	6.3539	0.0374	0.552E-03	0.209E-04
3.8997	0.0180	0.534E-03	0.239E-04	6.3915	0.0377	0.560E-03	0.211E-04
3.9177	0.0181	0.513E-03	0.236E-04	6.4294	0.0381	0.566E-03	0.214E-04
3.9359	0.0182	0.527E-03	0.232E-04	6.4677	0.0384	0.564E-03	0.216E-04
3.9541	0.0183	0.544E-03	0.235E-04	6.5063	0.0388	0.552E-03	0.209E-04
3.9725	0.0185	0.544E-03	0.241E-04	6.5452	0.0391	0.540E-03	0.206E-04
3.9910	0.0186	0.517E-03	0.238E-04	6.5845	0.0395	0.552E-03	0.208E-04
4.0097	0.0187	0.517E-03	0.238E-04	6.6242	0.0399	0.544E-03	0.209E-04
4.0285	0.0189	0.520E-03	0.228E-04	6.6642	0.0402	0.555E-03	0.206E-04
4.0474	0.0190	0.531E-03	0.230E-04	6.7046	0.0406	0.565E-03	0.208E-04
4.0665	0.0191	0.526E-03	0.231E-04	6.7453	0.0409	0.549E-03	0.206E-04
4.0857	0.0193	0.534E-03	0.233E-04	6.7865	0.0413	0.563E-03	0.211E-04
4.1050	0.0194	0.526E-03	0.232E-04	6.8280	0.0417	0.563E-03	0.206E-04
4.1244	0.0195	0.532E-03	0.227E-04	6.8699	0.0421	0.555E-03	0.205E-04
4.1440	0.0197	0.546E-03	0.230E-04	6.9121	0.0425	0.543E-03	0.203E-04
4.1638	0.0198	0.547E-03	0.232E-04	6.9548	0.0429	0.556E-03	0.210E-04
4.1837	0.0200	0.575E-03	0.238E-04	6.9979	0.0433	0.551E-03	0.203E-04
4.2037	0.0201	0.560E-03	0.236E-04	7.0413	0.0437	0.556E-03	0.205E-04
4.2239	0.0202	0.550E-03	0.236E-04	7.0852	0.0441	0.542E-03	0.202E-04
4.2442	0.0204	0.537E-03	0.234E-04	7.1295	0.0445	0.549E-03	0.206E-04
4.2647	0.0205	0.531E-03	0.237E-04	7.1742	0.0449	0.540E-03	0.200E-04
4.2853	0.0207	0.522E-03	0.225E-04	7.2193	0.0453	0.553E-03	0.203E-04
4.3060	0.0208	0.518E-03	0.227E-04	7.2649	0.0458	0.556E-03	0.209E-04
4.3269	0.0210	0.527E-03	0.235E-04	7.3109	0.0462	0.554E-03	0.209E-04
4.3480	0.0211	0.531E-03	0.227E-04	7.3573	0.0467	0.549E-03	0.202E-04
4.3692	0.0213	0.537E-03	0.230E-04	7.4042	0.0471	0.556E-03	0.204E-04
4.3906	0.0215	0.557E-03	0.236E-04	7.4515	0.0476	0.550E-03	0.204E-04
4.4122	0.0216	0.562E-03	0.237E-04	7.4993	0.0480	0.558E-03	0.212E-04
4.4339	0.0218	0.562E-03	0.241E-04	7.5476	0.0485	0.546E-03	0.200E-04
4.4557	0.0219	0.556E-03	0.230E-04	7.5963	0.0490	0.552E-03	0.202E-04
4.4777	0.0221	0.561E-03	0.230E-04	7.6455	0.0494	0.545E-03	0.200E-04

TABLE 6. CONTINUED

ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)	ENERGY (MEV)	ENERGY SPREAD (MEV)	CTS/INC. NEUT.	ERROR (ABS)
7.6952	0.0099	0.502E-03	0.198E-04	11.7770	0.0948	0.587E-03	0.208E-04
7.7453	0.0504	0.525E-03	0.193E-04	11.8720	0.0960	0.587E-03	0.211E-04
7.7960	0.0509	0.536E-03	0.197E-04	11.9690	0.0972	0.562E-03	0.201E-04
7.8472	0.0514	0.521E-03	0.191E-04	12.0660	0.0984	0.571E-03	0.208E-04
7.8988	0.0519	0.536E-03	0.193E-04	12.1650	0.0996	0.560E-03	0.203E-04
7.9510	0.0524	0.527E-03	0.192E-04	12.2650	0.1008	0.578E-03	0.205E-04
8.0037	0.0530	0.532E-03	0.195E-04	12.3670	0.1021	0.596E-03	0.212E-04
8.0569	0.0535	0.522E-03	0.191E-04	12.4700	0.1034	0.589E-03	0.211E-04
8.1107	0.0540	0.543E-03	0.196E-04	12.5740	0.1047	0.613E-03	0.225E-04
8.1650	0.0546	0.537E-03	0.198E-04	12.6790	0.1060	0.624E-03	0.225E-04
8.2199	0.0551	0.541E-03	0.194E-04	12.7860	0.1073	0.617E-03	0.221E-04
8.2753	0.0557	0.553E-03	0.196E-04	12.8940	0.1087	0.645E-03	0.234E-04
8.3313	0.0563	0.552E-03	0.200E-04	13.0030	0.1101	0.634E-03	0.227E-04
8.3878	0.0568	0.544E-03	0.194E-04	13.1140	0.1115	0.641E-03	0.234E-04
8.4449	0.0574	0.550E-03	0.197E-04	13.2260	0.1130	0.658E-03	0.233E-04
8.5027	0.0580	0.551E-03	0.201E-04	13.3400	0.1144	0.637E-03	0.230E-04
8.5610	0.0586	0.548E-03	0.196E-04	13.4550	0.1159	0.670E-03	0.230E-04
8.6199	0.0592	0.552E-03	0.194E-04	13.5720	0.1175	0.665E-03	0.241E-04
8.6794	0.0598	0.556E-03	0.204E-04	13.6900	0.1190	0.694E-03	0.243E-04
8.7396	0.0605	0.559E-03	0.197E-04	13.8100	0.1206	0.699E-03	0.244E-04
8.8004	0.0611	0.536E-03	0.194E-04	13.9310	0.1222	0.716E-03	0.255E-04
8.8618	0.0617	0.543E-03	0.197E-04	14.0540	0.1238	0.722E-03	0.255E-04
8.9239	0.0624	0.521E-03	0.188E-04	14.1790	0.1255	0.703E-03	0.244E-04
8.9866	0.0631	0.528E-03	0.190E-04	14.3050	0.1272	0.721E-03	0.246E-04
9.0500	0.0637	0.516E-03	0.185E-04	14.4330	0.1289	0.712E-03	0.251E-04
9.1141	0.0644	0.519E-03	0.185E-04	14.5630	0.1307	0.719E-03	0.249E-04
9.1789	0.0651	0.500E-03	0.185E-04	14.6950	0.1325	0.715E-03	0.250E-04
9.2443	0.0658	0.516E-03	0.184E-04	14.8280	0.1343	0.723E-03	0.250E-04
9.3105	0.0665	0.512E-03	0.183E-04	14.9630	0.1361	0.750E-03	0.268E-04
9.3774	0.0672	0.514E-03	0.181E-04	15.1000	0.1380	0.751E-03	0.265E-04
9.4450	0.0680	0.511E-03	0.182E-04	15.2390	0.1400	0.765E-03	0.268E-04
9.5133	0.0687	0.537E-03	0.191E-04	15.3800	0.1419	0.771E-03	0.272E-04
9.5824	0.0695	0.528E-03	0.190E-04	15.5230	0.1439	0.781E-03	0.272E-04
9.6523	0.0702	0.536E-03	0.191E-04	15.6680	0.1459	0.789E-03	0.275E-04
9.7229	0.0710	0.535E-03	0.188E-04	15.8150	0.1480	0.779E-03	0.286E-04
9.7943	0.0718	0.528E-03	0.190E-04	15.9640	0.1501	0.785E-03	0.284E-04
9.8665	0.0726	0.513E-03	0.189E-04	16.1150	0.1523	0.781E-03	0.280E-04
9.9395	0.0734	0.540E-03	0.191E-04	16.2690	0.1545	0.785E-03	0.283E-04
10.0130	0.0742	0.527E-03	0.192E-04	16.4240	0.1567	0.796E-03	0.283E-04
10.0880	0.0751	0.545E-03	0.192E-04	16.5820	0.1590	0.799E-03	0.288E-04
10.1630	0.0759	0.541E-03	0.198E-04	16.7420	0.1614	0.795E-03	0.286E-04
10.2400	0.0768	0.556E-03	0.198E-04	16.9050	0.1637	0.814E-03	0.291E-04
10.3170	0.0777	0.561E-03	0.200E-04	17.0700	0.1661	0.819E-03	0.295E-04
10.3950	0.0785	0.553E-03	0.197E-04	17.2370	0.1686	0.835E-03	0.301E-04
10.4740	0.0794	0.560E-03	0.198E-04	17.4070	0.1712	0.840E-03	0.309E-04
10.5540	0.0804	0.561E-03	0.200E-04	17.5800	0.1737	0.856E-03	0.312E-04
10.6350	0.0813	0.550E-03	0.194E-04	17.7550	0.1763	0.866E-03	0.320E-04
10.7170	0.0822	0.539E-03	0.195E-04	17.9320	0.1790	0.900E-03	0.330E-04
10.7990	0.0832	0.540E-03	0.192E-04	18.1130	0.1818	0.884E-03	0.330E-04
10.8830	0.0842	0.553E-03	0.194E-04	18.2960	0.1846	0.877E-03	0.327E-04
10.9680	0.0852	0.552E-03	0.194E-04	18.4820	0.1874	0.906E-03	0.350E-04
11.0530	0.0862	0.551E-03	0.194E-04	18.6710	0.1903	0.900E-03	0.343E-04
11.1400	0.0872	0.543E-03	0.191E-04	18.8630	0.1933	0.906E-03	0.352E-04
11.2280	0.0882	0.547E-03	0.197E-04	19.0570	0.1963	0.955E-03	0.370E-04
11.3160	0.0893	0.561E-03	0.198E-04	19.2550	0.1994	0.905E-03	0.342E-04
11.4060	0.0904	0.569E-03	0.205E-04	19.4560	0.2026	0.922E-03	0.349E-04
11.4970	0.0914	0.566E-03	0.200E-04	19.6600	0.2058	0.955E-03	0.360E-04
11.5890	0.0925	0.575E-03	0.201E-04	19.8680	0.2091	0.942E-03	0.365E-04
11.6820	0.0937	0.580E-03	0.207E-04	20.0790	0.2125	0.945E-03	0.426E-04

TABLE 7.

SECONDARY NEUTRON SPECTRA FOR A SCATTERING ANGLE OF APPROXIMATELY 90 DEGREES. THE VALUES GIVEN ARE THE LOWER AND UPPER LIMITS OF THE 68% CONFIDENCE INTERVAL FOR THE FLUX AT THE DETECTOR POSITION. THEY REPRESENT THE SECONDARY FLUX AS AVERAGED OVER THE AREA OF THE PROJECTION OF THE DETECTOR IN THE DIRECTION OF A POINT ON THE SCATTERING RING. THE DATA ARE NORMALIZED TO UNIT INCIDENT NEUTRONS.

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.743 TO 4.994 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.163E-04	0.322E-04	4.898	0.162E-04	0.174E-04	9.907	-0.567E-07	0.928E-07
0.910	0.228E-04	0.296E-04	5.093	0.110E-04	0.119E-04	10.209	-0.625E-07	0.877E-07
1.010	0.277E-04	0.328E-04	5.301	0.602E-05	0.672E-05	10.599	-0.636E-07	0.772E-07
1.110	0.322E-04	0.376E-04	5.505	0.276E-05	0.326E-05	10.973	-0.523E-07	0.911E-07
1.209	0.362E-04	0.408E-04	5.690	0.112E-05	0.148E-05	11.412	-0.351E-07	0.948E-07
1.309	0.365E-04	0.414E-04	5.885	0.316E-06	0.584E-06	11.828	-0.183E-07	0.900E-07
1.410	0.339E-04	0.388E-04	6.090	-0.475E-09	0.254E-06	12.219	-0.580E-08	0.831E-07
1.510	0.318E-04	0.358E-04	6.305	-0.747E-07	0.169E-06	12.629	-0.100E-07	0.770E-07
1.609	0.306E-04	0.347E-04	6.513	-0.732E-07	0.136E-06	13.005	-0.563E-08	0.820E-07
1.708	0.298E-04	0.335E-04	6.712	-0.738E-07	0.103E-06	13.400	-0.885E-08	0.855E-07
1.808	0.269E-04	0.310E-04	6.897	-0.895E-07	0.791E-07	13.810	-0.120E-07	0.877E-07
1.931	0.238E-04	0.271E-04	7.092	-0.105E-06	0.729E-07	14.179	-0.128E-07	0.971E-07
2.102	0.166E-04	0.205E-04	7.294	-0.120E-06	0.740E-07	14.563	-0.117E-07	0.851E-07
2.302	0.105E-04	0.145E-04	7.482	-0.124E-06	0.803E-07	14.962	-0.910E-08	0.893E-07
2.500	0.518E-05	0.125E-04	7.677	-0.108E-06	0.799E-07	15.378	-0.586E-08	0.942E-07
2.699	0.635E-05	0.100E-04	7.879	-0.930E-07	0.806E-07	15.813	-0.292E-08	0.100E-06
2.900	0.443E-05	0.786E-05	8.090	-0.703E-07	0.772E-07	16.426	-0.521E-09	0.106E-06
3.099	0.332E-05	0.688E-05	8.309	-0.497E-07	0.722E-07	17.238	-0.770E-10	0.129E-06
3.298	0.404E-05	0.739E-05	8.508	-0.387E-07	0.717E-07	18.019	-0.418E-08	0.129E-06
3.494	0.734E-05	0.106E-04	8.685	-0.346E-07	0.754E-07	18.761	-0.118E-07	0.131E-06
3.700	0.111E-04	0.141E-04	8.899	-0.556E-07	0.797E-07	19.551	-0.172E-07	0.111E-06
3.907	0.127E-04	0.156E-04	9.119	-0.375E-07	0.859E-07	20.506	-0.136E-07	0.118E-06
4.102	0.142E-04	0.165E-04	9.316	-0.390E-07	0.901E-07	21.525	-0.244E-07	0.139E-06
4.303	0.173E-04	0.193E-04	9.518	-0.436E-07	0.885E-07	22.500	-0.393E-07	0.134E-06
4.507	0.204E-04	0.221E-04	9.728	-0.508E-07	0.917E-07	23.545	-0.422E-07	0.123E-06
4.702	0.200E-04	0.214E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.511 TO 4.743 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.440E-05	0.216E-04	4.898	0.112E-04	0.122E-04	9.907	-0.198E-07	0.748E-07
0.910	0.276E-04	0.346E-04	5.093	0.625E-05	0.698E-05	10.209	-0.444E-08	0.719E-07
1.010	0.374E-04	0.444E-04	5.301	0.288E-05	0.339E-05	10.599	-0.232E-08	0.728E-07
1.110	0.375E-04	0.429E-04	5.505	0.112E-05	0.151E-05	10.973	-0.310E-08	0.711E-07
1.209	0.394E-04	0.440E-04	5.690	0.354E-06	0.655E-06	11.412	-0.804E-08	0.739E-07
1.309	0.408E-04	0.455E-04	5.885	-0.328E-08	0.238E-06	11.828	-0.104E-07	0.797E-07
1.410	0.361E-04	0.410E-04	6.090	-0.154E-06	0.424E-07	12.219	-0.108E-07	0.806E-07
1.510	0.300E-04	0.340E-04	6.305	-0.207E-06	-0.144E-07	12.629	-0.105E-07	0.876E-07
1.609	0.251E-04	0.292E-04	6.513	-0.207E-06	-0.535E-07	13.005	-0.106E-07	0.925E-07
1.708	0.216E-04	0.259E-04	6.712	-0.194E-06	-0.522E-07	13.400	-0.109E-07	0.962E-07
1.808	0.185E-04	0.230E-04	6.897	-0.176E-06	-0.421E-07	13.810	-0.112E-07	0.946E-07
1.931	0.161E-04	0.199E-04	7.092	-0.148E-06	-0.176E-07	14.179	-0.111E-07	0.101E-06
2.102	0.120E-04	0.163E-04	7.294	-0.120E-06	0.841E-08	14.563	-0.111E-07	0.106E-06
2.302	0.118E-04	0.160E-04	7.482	-0.943E-07	0.286E-07	14.962	-0.112E-07	0.113E-06
2.500	0.994E-05	0.136E-04	7.677	-0.713E-07	0.463E-07	15.378	-0.120E-07	0.117E-06
2.699	0.270E-05	0.665E-05	7.879	-0.507E-07	0.638E-07	15.813	-0.138E-07	0.111E-06
2.900	-0.107E-06	0.371E-05	8.090	-0.382E-07	0.757E-07	16.426	-0.170E-07	0.116E-06
3.099	0.308E-05	0.707E-05	8.309	-0.363E-07	0.849E-07	17.238	-0.182E-07	0.109E-06
3.298	0.983E-05	0.135E-04	8.508	-0.396E-07	0.948E-07	18.019	-0.179E-07	0.116E-06
3.494	0.155E-04	0.191E-04	8.685	-0.415E-07	0.108E-06	18.761	-0.221E-07	0.127E-06
3.700	0.177E-04	0.210E-04	8.899	-0.435E-07	0.115E-06	19.551	-0.275E-07	0.125E-06
3.907	0.190E-04	0.220E-04	9.119	-0.437E-07	0.160E-06	20.506	-0.275E-07	0.134E-06
4.102	0.217E-04	0.240E-04	9.316	-0.389E-07	0.491E-07	21.525	-0.274E-07	0.146E-06
4.303	0.234E-04	0.256E-04	9.518	-0.327E-07	0.907E-07	22.500	-0.309E-07	0.122E-06
4.507	0.220E-04	0.237E-04	9.728	-0.256E-07	0.406E-07	23.545	-0.235E-07	0.136E-06
4.702	0.171E-04	0.184E-04						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.254 TO 4.511 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.430E-04	0.590E-04	4.898	0.562E-05	0.629E-05	9.907	-0.107E-07	0.793E-07
0.910	0.412E-04	0.475E-04	5.093	0.234E-05	0.242E-05	10.209	-0.104E-07	0.784E-07
1.010	0.322E-04	0.368E-04	5.301	0.613E-06	0.973E-06	10.599	-0.103E-07	0.837E-07
1.110	0.317E-04	0.363E-04	5.505	-0.747E-07	0.216E-06	10.973	-0.106E-07	0.887E-07
1.209	0.350E-04	0.390E-04	5.690	-0.269E-06	-0.692E-08	11.412	-0.118E-07	0.922E-07
1.309	0.347E-04	0.390E-04	5.885	-0.275E-06	-0.361E-07	11.828	-0.130E-07	0.899E-07
1.410	0.298E-04	0.341E-04	6.090	-0.187E-06	0.362E-07	12.219	-0.139E-07	0.931E-07
1.510	0.241E-04	0.277E-04	6.305	-0.750E-07	0.126E-06	12.629	-0.148E-07	0.963E-07
1.609	0.192E-04	0.229E-04	6.513	0.589E-08	0.177E-06	13.005	-0.156E-07	0.100E-06
1.708	0.150E-04	0.194E-04	6.712	0.397E-07	0.192E-06	13.400	-0.164E-07	0.103E-06
1.808	0.122E-04	0.161E-04	6.897	0.344E-07	0.189E-06	13.810	-0.172E-07	0.108E-06
1.931	0.905E-05	0.127E-04	7.092	0.115E-07	0.173E-06	14.179	-0.177E-07	0.113E-06
2.102	0.829E-05	0.125E-04	7.294	-0.139E-07	0.148E-06	14.563	-0.182E-07	0.112E-06
2.302	0.104E-04	0.147E-04	7.482	-0.315E-07	0.124E-06	14.962	-0.186E-07	0.119E-06
2.500	0.723E-05	0.108E-04	7.677	-0.396E-07	0.100E-06	15.378	-0.185E-07	0.122E-06
2.699	0.309E-05	0.708E-05	7.879	-0.388E-07	0.844E-07	15.813	-0.179E-07	0.127E-06
2.900	0.534E-05	0.912E-05	8.090	-0.321E-07	0.721E-07	16.426	-0.166E-07	0.127E-06
3.099	0.100E-04	0.139E-04	8.309	-0.226E-07	0.616E-07	17.238	-0.133E-07	0.122E-06
3.298	0.145E-04	0.180E-04	8.508	-0.139E-07	0.564E-07	18.019	-0.992E-08	0.144E-06
3.494	0.169E-04	0.202E-04	8.685	-0.808E-08	0.570E-07	18.761	-0.878E-08	0.149E-06
3.700	0.202E-04	0.231E-04	8.899	-0.837E-08	0.592E-07	19.551	-0.746E-08	0.158E-06
3.907	0.256E-04	0.280E-04	9.119	-0.986E-08	0.620E-07	20.506	-0.658E-08	0.135E-06
4.102	0.285E-04	0.304E-04	9.316	-0.106E-07	0.675E-07	21.525	-0.664E-08	0.136E-06
4.303	0.257E-04	0.273E-04	9.518	-0.109E-07	0.705E-07	22.500	-0.116E-07	0.104E-06
4.507	0.185E-04	0.198E-04	9.728	-0.109E-07	0.780E-07	23.545	-0.160E-07	0.999E-07
4.702	0.112E-04	0.121E-04						

TABLE 7. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 4.000 TO 4.250 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.313E-04	0.460E-04	4.898	0.168E-05	0.207E-05	9.907	0.103E-09	0.401E-07
0.910	0.360E-04	0.419E-04	5.093	0.541E-06	0.826E-06	10.209	-0.639E-09	0.372E-07
1.010	0.410E-04	0.452E-04	5.301	0.954E-07	0.342E-06	10.599	-0.431E-08	0.373E-07
1.110	0.382E-04	0.425E-04	5.505	0.750E-08	0.217E-06	10.973	-0.674E-08	0.374E-07
1.209	0.314E-04	0.352E-04	5.690	0.129E-07	0.204E-06	11.412	-0.818E-08	0.411E-07
1.309	0.266E-04	0.306E-04	5.885	0.249E-07	0.196E-06	11.828	-0.843E-08	0.442E-07
1.410	0.223E-04	0.263E-04	6.090	0.103E-07	0.164E-06	12.219	-0.790E-08	0.478E-07
1.510	0.163E-04	0.198E-04	6.305	-0.135E-07	0.116E-06	12.629	-0.701E-08	0.497E-07
1.609	0.110E-04	0.147E-04	6.513	-0.316E-07	0.688E-07	13.005	-0.626E-08	0.505E-07
1.708	0.964E-05	0.135E-04	6.712	-0.417E-07	0.410E-07	13.400	-0.552E-08	0.529E-07
1.808	0.112E-04	0.149E-04	6.897	-0.440E-07	0.333E-07	13.810	-0.474E-08	0.553E-07
1.931	0.130E-04	0.167E-04	7.092	-0.400E-07	0.353E-07	14.179	-0.418E-08	0.582E-07
2.102	0.121E-04	0.163E-04	7.294	-0.316E-07	0.423E-07	14.563	-0.395E-08	0.672E-07
2.302	0.637E-05	0.102E-04	7.482	-0.225E-07	0.502E-07	14.962	-0.433E-08	0.696E-07
2.500	0.414E-05	0.774E-05	7.677	-0.150E-07	0.598E-07	15.378	-0.520E-08	0.688E-07
2.699	0.878E-05	0.124E-04	7.879	-0.113E-07	0.703E-07	15.813	-0.619E-08	0.655E-07
2.900	0.199E-04	0.184E-04	8.090	-0.113E-07	0.792E-07	16.426	-0.711E-08	0.633E-07
3.099	0.180E-04	0.216E-04	8.309	-0.119E-07	0.841E-07	17.238	-0.765E-08	0.693E-07
3.298	0.187E-04	0.220E-04	8.508	-0.121E-07	0.840E-07	18.019	-0.950E-08	0.677E-07
3.494	0.228E-04	0.258E-04	8.685	-0.109E-07	0.793E-07	18.761	-0.139E-07	0.665E-07
3.700	0.296E-04	0.321E-04	8.899	-0.855E-08	0.690E-07	19.551	-0.188E-07	0.674E-07
3.907	0.310E-04	0.330E-04	9.119	-0.590E-08	0.591E-07	20.506	-0.229E-07	0.579E-07
4.102	0.253E-04	0.269E-04	9.316	-0.356E-08	0.504E-07	21.525	-0.269E-07	0.587E-07
4.303	0.166E-04	0.178E-04	9.518	-0.150E-08	0.442E-07	22.500	-0.306E-07	0.553E-07
4.507	0.896E-05	0.983E-05	9.728	-0.105E-09	0.416E-07	23.545	-0.271E-07	0.501E-07
4.702	0.423E-05	0.481E-05						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 3.751 TO 4.000 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.261E-04	0.401E-04	4.898	0.173E-06	0.460E-06	9.907	-0.428E-08	0.217E-07
0.910	0.317E-04	0.374E-04	5.093	-0.674E-07	0.177E-06	10.209	-0.480E-08	0.227E-07
1.010	0.278E-04	0.318E-04	5.301	-0.315E-07	0.177E-06	10.599	-0.502E-08	0.237E-07
1.110	0.258E-04	0.302E-04	5.505	0.652E-07	0.237E-06	10.973	-0.492E-08	0.248E-07
1.209	0.229E-04	0.268E-04	5.690	0.115E-06	0.271E-06	11.412	-0.462E-08	0.258E-07
1.309	0.164E-04	0.206E-04	5.885	0.123E-06	0.260E-06	11.828	-0.437E-08	0.274E-07
1.410	0.107E-04	0.151E-04	6.090	0.927E-07	0.205E-06	12.219	-0.438E-08	0.276E-07
1.510	0.984E-05	0.136E-04	6.305	0.487E-07	0.135E-06	12.629	-0.471E-08	0.281E-07
1.609	0.124E-04	0.163E-04	6.513	0.144E-07	0.828E-07	13.005	-0.531E-08	0.288E-07
1.708	0.151E-04	0.192E-04	6.712	-0.523E-08	0.476E-07	13.400	-0.596E-08	0.284E-07
1.808	0.155E-04	0.195E-04	6.897	-0.140E-07	0.264E-07	13.810	-0.634E-08	0.309E-07
1.931	0.130E-04	0.170E-04	7.092	-0.172E-07	0.160E-07	14.179	-0.636E-08	0.323E-07
2.102	0.652E-05	0.111E-04	7.294	-0.176E-07	0.142E-07	14.563	-0.611E-08	0.325E-07
2.302	0.383E-05	0.837E-05	7.482	-0.166E-07	0.158E-07	14.962	-0.570E-08	0.345E-07
2.500	0.117E-04	0.156E-04	7.677	-0.147E-07	0.180E-07	15.378	-0.532E-08	0.365E-07
2.699	0.228E-04	0.269E-04	7.879	-0.121E-07	0.208E-07	15.813	-0.516E-08	0.381E-07
2.900	0.264E-04	0.301E-04	8.090	-0.910E-08	0.220E-07	16.426	-0.539E-08	0.353E-07
3.099	0.276E-04	0.263E-04	8.309	-0.613E-08	0.228E-07	17.238	-0.601E-08	0.343E-07
3.298	0.246E-04	0.278E-04	8.508	-0.376E-08	0.229E-07	18.019	-0.620E-08	0.383E-07
3.494	0.331E-04	0.360E-04	8.685	-0.226E-08	0.222E-07	18.761	-0.580E-08	0.348E-07
3.700	0.363E-04	0.385E-04	8.899	-0.140E-08	0.214E-07	19.551	-0.475E-08	0.341E-07
3.907	0.282E-04	0.298E-04	9.119	-0.155E-08	0.210E-07	20.506	-0.294E-08	0.365E-07
4.102	0.169E-04	0.181E-04	9.316	-0.221E-08	0.208E-07	21.525	-0.131E-08	0.326E-07
4.303	0.810E-05	0.891E-05	9.518	-0.303E-08	0.210E-07	22.500	-0.100E-08	0.275E-07
4.507	0.318E-05	0.369E-05	9.728	-0.379E-08	0.213E-07	23.545	-0.978E-09	0.250E-07
4.702	0.102E-05	0.139E-05						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 3.495 TO 3.751 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.273E-04	0.408E-04	4.898	-0.105E-06	0.142E-06	9.907	-0.492E-08	0.327E-07
0.910	0.244E-04	0.343E-04	5.093	-0.113E-06	0.994E-07	10.209	-0.205E-08	0.335E-07
1.010	0.193E-04	0.233E-04	5.301	-0.697E-07	0.117E-06	10.599	-0.403E-08	0.340E-07
1.110	0.143E-04	0.187E-04	5.505	-0.214E-07	0.147E-06	10.973	-0.579E-08	0.373E-07
1.209	0.143E-04	0.183E-04	5.690	0.160E-07	0.170E-06	11.412	-0.680E-08	0.415E-07
1.309	0.159E-04	0.203E-04	5.885	0.304E-07	0.169E-06	11.828	-0.699E-08	0.443E-07
1.410	0.171E-04	0.217E-04	6.090	0.339E-07	0.160E-06	12.219	-0.680E-08	0.472E-07
1.510	0.159E-04	0.198E-04	6.305	0.289E-07	0.148E-06	12.629	-0.651E-08	0.481E-07
1.609	0.128E-04	0.171E-04	6.513	0.122E-07	0.132E-06	13.005	-0.626E-08	0.478E-07
1.708	0.109E-04	0.152E-04	6.712	0.204E-08	0.118E-06	13.400	-0.595E-08	0.489E-07
1.808	0.963E-05	0.140E-04	6.897	-0.287E-08	0.103E-06	13.810	-0.546E-08	0.499E-07
1.931	0.686E-05	0.113E-04	7.092	-0.399E-08	0.795E-07	14.179	-0.485E-08	0.522E-07
2.102	0.397E-05	0.884E-05	7.294	-0.846E-08	0.641E-07	14.563	-0.433E-08	0.609E-07
2.302	0.147E-04	0.192E-04	7.482	-0.160E-07	0.585E-07	14.962	-0.406E-08	0.642E-07
2.500	0.323E-04	0.364E-04	7.677	-0.296E-07	0.596E-07	15.378	-0.406E-08	0.609E-07
2.699	0.389E-04	0.427E-04	7.879	-0.376E-07	0.627E-07	15.813	-0.419E-08	0.626E-07
2.900	0.315E-04	0.349E-04	8.090	-0.459E-07	0.654E-07	16.426	-0.451E-08	0.608E-07
3.099	0.303E-04	0.335E-04	8.309	-0.496E-07	0.628E-07	17.238	-0.539E-08	0.673E-07
3.298	0.395E-04	0.422E-04	8.508	-0.476E-07	0.541E-07	18.019	-0.630E-08	0.678E-07
3.494	0.412E-04	0.435E-04	8.685	-0.426E-07	0.476E-07	18.761	-0.755E-08	0.706E-07
3.700	0.298E-04	0.316E-04	8.899	-0.346E-07	0.422E-07	19.551	-0.933E-08	0.752E-07
3.907	0.157E-04	0.169E-04	9.119	-0.260E-07	0.365E-07	20.506	-0.105E-07	0.693E-07
4.102	0.686E-05	0.761E-05	9.316	-0.189E-07	0.318E-07	21.525	-0.986E-08	0.729E-07
4.303	0.241E-05	0.289E-05	9.518	-0.128E-07	0.305E-07	22.500	-0.924E-08	0.705E-07
4.507	0.649E-06	0.962E-06	9.728	-0.801E-08	0.313E-07	23.545	-0.907E-08	0.627E-07
4.702	0.660E-07	0.340E-06						

TABLE 7. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 3.249 TO 3.495 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	-0.584E-05	0.756E-05	4.898	-0.905E-07	0.547E-07	9.907	-0.114E-08	0.158E-07
0.910	0.217E-05	0.775E-05	5.093	-0.501E-07	0.800E-07	10.209	-0.110E-08	0.165E-07
1.010	0.127E-04	0.170E-04	5.301	-0.182E-07	0.104E-06	10.599	-0.107E-08	0.170E-07
1.110	0.190E-04	0.236E-04	5.505	0.757E-08	0.107E-06	10.973	-0.106E-08	0.175E-07
1.209	0.701E-04	0.244E-04	5.806	0.224E-07	0.101E-06	11.412	-0.108E-08	0.181E-07
1.309	0.188E-04	0.234E-04	5.885	0.208E-07	0.886E-07	11.828	-0.110E-08	0.190E-07
1.410	0.157E-04	0.204E-04	6.090	0.418E-07	0.736E-07	12.219	-0.110E-08	0.190E-07
1.510	0.126E-04	0.168E-04	6.305	-0.110E-07	0.594E-07	12.629	-0.110E-08	0.196E-07
1.609	0.103E-04	0.149E-04	6.513	-0.174E-07	0.428E-07	13.005	-0.109E-08	0.205E-07
1.708	-0.911E-05	0.137E-04	6.712	-0.178E-07	0.292E-07	13.400	-0.110E-08	0.205E-07
1.808	0.745E-05	0.120E-04	6.897	-0.153E-07	0.191E-07	13.810	-0.112E-08	0.222E-07
1.931	0.691E-05	0.116E-04	7.092	-0.114E-07	0.122E-07	14.179	-0.113E-08	0.232E-07
2.102	0.183E-04	0.232E-04	7.294	-0.699E-08	0.105E-07	14.563	-0.112E-08	0.234E-07
2.302	0.412E-04	0.454E-04	7.482	-0.409E-08	0.992E-08	14.962	-0.108E-08	0.244E-07
2.500	0.446E-04	0.485E-04	7.677	-0.210E-08	0.101E-07	15.378	-0.101E-08	0.259E-07
2.699	0.305E-04	0.339E-04	7.879	-0.422E-09	0.102E-07	15.813	-0.933E-09	0.270E-07
2.900	0.278E-04	0.307E-04	8.090	-0.834E-09	0.108E-07	16.426	-0.835E-09	0.248E-07
3.099	0.391E-04	0.418E-04	8.309	-0.953E-09	0.113E-07	17.238	-0.726E-09	0.247E-07
3.298	0.406E-04	0.427E-04	8.508	-0.102E-08	0.121E-07	18.019	-0.614E-09	0.278E-07
3.494	0.284E-04	0.300E-04	8.685	-0.107E-08	0.127E-07	18.761	-0.487E-09	0.249E-07
3.700	0.137E-04	0.148E-04	8.899	-0.111E-08	0.132E-07	19.551	-0.454E-09	0.249E-07
3.907	0.441E-05	0.447E-05	9.115	-0.114E-08	0.134E-07	20.506	-0.550E-09	0.228E-07
4.102	0.141E-05	0.179E-05	9.316	-0.116E-08	0.143E-07	21.525	-0.650E-09	0.211E-07
4.303	0.193E-06	0.471E-06	9.518	-0.117E-08	0.149E-07	22.500	-0.654E-09	0.171E-07
4.507	-0.106E-06	0.935E-07	9.728	-0.116E-08	0.152E-07	23.545	-0.578E-09	0.152E-07
4.702	-0.125E-06	0.369E-07						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 3.005 TO 3.249 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.799E-05	0.223E-04	4.898	0.119E-07	0.143E-06	9.907	-0.536E-08	0.370E-07
0.910	0.220E-04	0.278E-04	5.093	0.154E-07	0.129E-06	10.209	-0.485E-08	0.383E-07
1.010	0.252E-04	0.296E-04	5.301	0.626E-08	0.933E-07	10.599	-0.445E-08	0.395E-07
1.110	0.191E-04	0.240E-04	5.505	-0.368E-08	0.624E-07	10.973	-0.450E-08	0.405E-07
1.209	0.114E-04	0.159E-04	5.690	-0.130E-07	0.504E-07	11.412	-0.502E-08	0.425E-07
1.309	0.757E-05	0.126E-04	5.885	-0.216E-07	0.576E-07	11.828	-0.563E-08	0.436E-07
1.410	0.741E-05	0.126E-04	6.090	-0.254E-07	0.614E-07	12.219	-0.594E-08	0.426E-07
1.510	0.850E-05	0.131E-04	6.305	-0.237E-07	0.444E-07	12.629	-0.581E-08	0.438E-07
1.609	0.750E-05	0.124E-04	6.513	-0.190E-07	0.374E-07	13.005	-0.542E-08	0.462E-07
1.708	0.545E-05	0.103E-04	6.712	-0.135E-07	0.305E-07	13.400	-0.508E-08	0.483E-07
1.808	0.891E-05	0.139E-04	6.897	-0.894E-08	0.743E-07	13.810	-0.510E-08	0.511E-07
1.931	0.269E-04	0.338E-04	7.092	-0.530E-08	0.246E-07	14.179	-0.552E-08	0.517E-07
2.102	0.599E-04	0.647E-04	7.294	-0.276E-08	0.250E-07	14.563	-0.621E-08	0.535E-07
2.302	0.326E-04	0.569E-04	7.482	-0.138E-08	0.257E-07	14.962	-0.687E-08	0.523E-07
2.500	0.312E-04	0.349E-04	7.677	-0.133E-08	0.259E-07	15.378	-0.704E-08	0.547E-07
2.699	0.358E-04	0.390E-04	7.879	-0.290E-08	0.263E-07	15.813	-0.638E-08	0.532E-07
2.900	0.494E-04	0.519E-04	8.090	-0.438E-08	0.274E-07	16.426	-0.422E-08	0.595E-07
3.099	0.451E-04	0.470E-04	8.309	-0.549E-08	0.279E-07	17.238	-0.250E-08	0.577E-07
3.298	0.277E-04	0.291E-04	8.508	-0.615E-08	0.208E-07	18.019	-0.441E-08	0.676E-07
3.494	0.125E-04	0.134E-04	8.685	-0.649E-08	0.298E-07	18.761	-0.359E-08	0.577E-07
3.700	0.392E-05	0.452E-05	8.899	0.665E-08	0.316E-07	19.551	-0.295E-08	0.603E-07
3.907	0.741E-06	0.114E-05	9.115	-0.658E-08	0.335E-07	20.506	-0.292E-08	0.540E-07
4.102	-0.975E-07	0.192E-06	9.316	-0.637E-08	0.343E-07	21.525	-0.295E-08	0.489E-07
4.303	-0.217E-06	0.868E-08	9.518	-0.606E-08	0.353E-07	22.500	-0.291E-08	0.381E-07
4.507	-0.124E-06	0.599E-07	9.728	-0.569E-08	0.367E-07	23.545	-0.408E-08	0.332E-07
4.702	-0.300E-07	0.124E-06						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 2.755 TO 3.005 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.288E-06	0.156E-04	4.898	-0.656E-07	0.680E-07	9.907	-0.191E-07	0.153E-06
0.910	0.140E-04	0.205E-04	5.093	-0.367E-07	0.728E-07	10.209	-0.242E-07	0.154E-06
1.010	0.177E-04	0.228E-04	5.301	-0.160E-07	0.729E-07	10.599	-0.320E-07	0.153E-06
1.110	0.126E-04	0.183E-04	5.505	-0.604E-08	0.763E-07	10.973	-0.376E-07	0.156E-06
1.209	0.785E-05	0.131E-04	5.690	-0.777E-08	0.805E-07	11.412	-0.382E-07	0.161E-06
1.309	0.499E-05	0.104E-04	5.885	-0.115E-07	0.851E-07	11.828	-0.341E-07	0.160E-06
1.410	0.519E-05	0.112E-04	6.090	-0.160E-07	0.881E-07	12.219	-0.295E-07	0.198E-06
1.510	0.126E-04	0.178E-04	6.305	-0.194E-07	0.948E-07	12.629	-0.253E-07	0.205E-06
1.609	0.271E-04	0.325E-04	6.513	-0.220E-07	0.101E-06	13.005	-0.224E-07	0.200E-06
1.708	0.478E-04	0.530E-04	6.712	-0.241E-07	0.105E-06	13.400	-0.202E-07	0.212E-06
1.808	0.660E-04	0.710E-04	6.897	-0.261E-07	0.107E-06	13.810	-0.191E-07	0.220E-06
1.931	0.710E-04	0.763E-04	7.092	-0.284E-07	0.111E-06	14.179	-0.195E-07	0.228E-06
2.102	0.527E-04	0.573E-04	7.294	-0.310E-07	0.114E-06	14.563	-0.195E-07	0.227E-06
2.302	0.319E-04	0.359E-04	7.482	-0.328E-07	0.116E-06	14.962	-0.184E-07	0.236E-06
2.500	0.418E-04	0.453E-04	7.677	-0.333E-07	0.125E-06	15.378	-0.168E-07	0.253E-06
2.699	0.589E-04	0.616E-04	7.879	-0.313E-07	0.131E-06	15.813	-0.159E-07	0.261E-06
2.900	0.500E-04	0.521E-04	8.090	-0.270E-07	0.134E-06	16.426	-0.176E-07	0.260E-06
3.099	0.273E-04	0.287E-04	8.309	-0.212E-07	0.136E-06	17.238	-0.214E-07	0.196E-06
3.298	0.104E-04	0.112E-04	8.508	-0.164E-07	0.143E-06	18.019	-0.226E-07	0.172E-06
3.494	0.266E-05	0.313E-05	8.685	-0.134E-07	0.153E-06	18.761	-0.231E-07	0.148E-06
3.700	0.936E-07	0.420E-06	8.899	-0.115E-07	0.160E-06	19.551	-0.265E-07	0.118E-06
3.907	-0.368E-06	-0.124E-06	9.115	-0.114E-07	0.162E-06	20.506	-0.317E-07	0.114E-06
4.102	-0.322E-06	-0.129E-06	9.316	-0.125E-07	0.168E-06	21.525	-0.331E-07	0.895E-07
4.303	-0.229E-06	-0.623E-07	9.518	-0.143E-07	0.162E-06	22.500	-0.301E-07	0.801E-07
4.507	-0.156E-06	0.479E-08	9.728	-0.168E-07	0.162E-06	23.545	-0.242E-07	0.739E-07
4.702	-0.105E-06	0.475E-07						

TABLE 7. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 2.497 TO 2.755 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	-0.442E-06	0.127E-04	4.898	-0.255E-07	0.305E-07	9.907	-0.452E-08	0.356E-07
0.910	0.846E-05	0.140E-04	5.093	-0.199E-07	0.328E-07	10.209	-0.479E-08	0.360E-07
1.010	0.112E-04	0.156E-04	5.301	-0.159E-07	0.300E-07	10.599	-0.474E-08	0.372E-07
1.110	0.989E-05	0.146E-04	5.505	-0.185E-07	0.280E-07	10.973	-0.456E-08	0.383E-07
1.209	0.546E-05	0.100E-04	5.690	-0.242E-07	0.262E-07	11.412	-0.444E-08	0.413E-07
1.309	0.105E-04	0.155E-04	5.885	-0.262E-07	0.246E-07	11.828	-0.444E-08	0.425E-07
1.410	0.330E-04	0.381E-04	6.090	-0.329E-07	0.196E-07	12.219	-0.487E-08	0.419E-07
1.510	0.631E-04	0.672E-04	6.305	-0.357E-07	0.209E-07	12.629	-0.521E-08	0.432E-07
1.609	0.821E-04	0.864E-04	6.513	-0.349E-07	0.169E-07	13.005	-0.548E-08	0.450E-07
1.708	0.822E-04	0.863E-04	6.712	-0.312E-07	0.159E-07	13.400	-0.574E-08	0.470E-07
1.808	0.667E-04	0.704E-04	6.897	-0.271E-07	0.177E-07	13.810	-0.605E-08	0.498E-07
1.931	0.024E-04	0.460E-04	7.092	-0.231E-07	0.212E-07	14.179	-0.647E-08	0.499E-07
2.102	0.285E-04	0.319E-04	7.294	-0.186E-07	0.263E-07	14.563	-0.705E-08	0.516E-07
2.302	0.507E-04	0.533E-04	7.482	-0.144E-07	0.290E-07	14.962	-0.773E-08	0.505E-07
2.500	0.667E-04	0.689E-04	7.677	-0.995E-08	0.297E-07	15.378	-0.847E-08	0.516E-07
2.699	0.483E-04	0.498E-04	7.879	-0.572E-08	0.305E-07	15.813	-0.888E-08	0.497E-07
2.900	0.213E-04	0.223E-04	8.090	-0.215E-08	0.304E-07	16.426	-0.923E-08	0.535E-07
3.099	0.628E-05	0.680E-05	8.309	-0.123E-10	0.301E-07	17.238	-0.989E-08	0.496E-07
3.298	0.102E-05	0.132E-05	8.508	0.461E-09	0.306E-07	18.019	-0.993E-08	0.560E-07
3.494	-0.240E-06	-0.317E-07	8.685	-0.713E-11	0.312E-07	18.761	-0.601E-08	0.471E-07
3.700	-0.410E-06	-0.234E-06	8.899	-0.874E-09	0.324E-07	19.551	-0.616E-08	0.477E-07
3.907	-0.333E-06	-0.209E-06	9.119	-0.204E-08	0.336E-07	20.506	-0.564E-08	0.422E-07
4.102	-0.219E-06	-0.137E-06	9.316	-0.289E-08	0.353E-07	21.525	-0.107E-07	0.380E-07
4.303	-0.130E-06	-0.688E-07	9.518	-0.362E-08	0.359E-07	22.500	-0.808E-08	0.292E-07
4.507	-0.759E-07	-0.815E-08	9.728	-0.419E-08	0.357E-07	23.545	-0.877E-08	0.265E-07
4.702	-0.386E-07	0.222E-07						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 2.251 TO 2.497 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.477E-05	0.171E-04	4.898	-0.137E-07	0.227E-07	9.907	-0.302E-08	0.434E-07
0.910	0.731E-05	0.126E-04	5.093	-0.131E-07	0.185E-07	10.209	-0.512E-08	0.441E-07
1.010	0.665E-05	0.109E-04	5.301	-0.138E-07	0.205E-07	10.599	-0.306E-08	0.389E-07
1.110	0.168E-04	0.221E-04	5.505	-0.130E-07	0.242E-07	10.973	-0.172E-08	0.301E-07
1.209	0.480E-04	0.521E-04	5.690	-0.149E-07	0.262E-07	11.412	-0.946E-09	0.311E-07
1.309	0.863E-04	0.911E-04	5.885	-0.134E-07	0.257E-07	11.828	-0.105E-08	0.306E-07
1.410	0.107E-03	0.111E-03	6.090	-0.128E-07	0.227E-07	12.219	-0.145E-08	0.312E-07
1.510	0.963E-04	0.997E-04	6.305	-0.871E-08	0.224E-07	12.629	-0.191E-08	0.315E-07
1.609	0.662E-04	0.697E-04	6.513	-0.776E-08	0.221E-07	13.005	-0.224E-08	0.330E-07
1.708	0.378E-04	0.412E-04	6.712	-0.720E-08	0.224E-07	13.400	-0.244E-08	0.336E-07
1.808	0.243E-04	0.273E-04	6.897	-0.730E-08	0.236E-07	13.810	-0.278E-08	0.361E-07
1.931	0.317E-04	0.346E-04	7.092	-0.777E-08	0.247E-07	14.179	-0.332E-08	0.390E-07
2.102	0.655E-04	0.679E-04	7.294	-0.849E-08	0.279E-07	14.563	-0.392E-08	0.408E-07
2.302	0.796E-04	0.814E-04	7.482	-0.910E-08	0.297E-07	14.962	-0.468E-08	0.407E-07
2.500	0.502E-04	0.514E-04	7.677	-0.147E-07	0.313E-07	15.378	-0.542E-08	0.418E-07
2.699	0.190E-04	0.197E-04	7.879	-0.107E-07	0.335E-07	15.813	-0.597E-08	0.420E-07
2.900	0.430E-05	0.471E-05	8.090	-0.108E-07	0.346E-07	16.426	-0.617E-08	0.417E-07
3.099	0.141E-06	0.385E-06	8.309	-0.113E-07	0.352E-07	17.238	-0.556E-08	0.435E-07
3.298	-0.480E-06	-0.302E-06	8.508	-0.114E-07	0.357E-07	18.019	-0.538E-08	0.458E-07
3.494	-0.360E-06	-0.236E-06	8.685	-0.112E-07	0.373E-07	18.761	-0.757E-08	0.471E-07
3.700	-0.215E-06	-0.113E-06	8.899	-0.104E-07	0.385E-07	19.551	-0.883E-08	0.422E-07
3.907	-0.128E-06	-0.524E-07	9.119	-0.914E-08	0.402E-07	20.506	-0.873E-08	0.351E-07
4.102	-0.712E-07	-0.181E-07	9.316	-0.773E-08	0.427E-07	21.525	-0.561E-08	0.386E-07
4.303	-0.320E-07	0.789E-08	9.518	-0.614E-08	0.437E-07	22.500	-0.288E-08	0.335E-07
4.507	-0.178E-07	0.228E-07	9.728	-0.839E-08	0.444E-07	23.545	-0.229E-08	0.324E-07
4.702	-0.135E-07	0.254E-07						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.999 TO 2.251 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	-0.975E-06	0.142E-04	4.898	-0.176E-07	0.154E-07	9.907	-0.602E-08	0.508E-07
0.910	0.164E-04	0.224E-04	5.093	-0.174E-07	0.242E-07	10.209	-0.747E-08	0.518E-07
1.010	0.618E-04	0.657E-04	5.301	-0.157E-07	0.295E-07	10.599	-0.931E-08	0.548E-07
1.110	0.110E-03	0.115E-03	5.505	-0.133E-07	0.353E-07	10.973	-0.865E-08	0.570E-07
1.209	0.124E-03	0.128E-03	5.690	-0.109E-07	0.312E-07	11.412	-0.567E-08	0.614E-07
1.309	0.987E-04	0.102E-03	5.885	-0.822E-08	0.308E-07	11.828	-0.186E-08	0.672E-07
1.410	0.593E-04	0.620E-04	6.090	-0.471E-08	0.347E-07	12.219	0.344E-09	0.689E-07
1.510	0.311E-04	0.338E-04	6.305	-0.431E-08	0.337E-07	12.629	0.549E-09	0.735E-07
1.609	0.207E-04	0.234E-04	6.513	-0.219E-08	0.332E-07	13.005	-0.705E-09	0.765E-07
1.708	0.266E-04	0.292E-04	6.712	-0.224E-08	0.337E-07	13.400	-0.321E-08	0.773E-07
1.808	0.442E-04	0.465E-04	6.897	-0.419E-08	0.338E-07	13.810	-0.680E-08	0.783E-07
1.931	0.676E-04	0.696E-04	7.092	-0.746E-08	0.343E-07	14.179	-0.105E-07	0.775E-07
2.102	0.719E-04	0.734E-04	7.294	-0.110E-07	0.357E-07	14.563	-0.139E-07	0.734E-07
2.302	0.390E-04	0.400E-04	7.482	-0.136E-07	0.375E-07	14.962	-0.165E-07	0.693E-07
2.500	0.123E-04	0.129E-04	7.677	-0.149E-07	0.383E-07	15.378	-0.189E-07	0.729E-07
2.699	0.239E-05	0.270E-05	7.879	-0.144E-07	0.398E-07	15.813	-0.210E-07	0.655E-07
2.900	-0.294E-07	0.194E-06	8.090	-0.124E-07	0.426E-07	16.426	-0.211E-07	0.574E-07
3.099	-0.325E-06	-0.176E-06	8.309	-0.962E-08	0.452E-07	17.238	-0.125E-07	0.512E-07
3.298	-0.177E-06	-0.599E-07	8.508	-0.736E-08	0.501E-07	18.019	-0.109E-07	0.490E-07
3.494	-0.404E-07	0.485E-07	8.685	-0.607E-08	0.520E-07	18.761	-0.894E-08	0.442E-07
3.700	0.113E-07	0.707E-07	8.899	-0.557E-08	0.474E-07	19.551	-0.585E-08	0.435E-07
3.907	0.113E-09	0.707E-07	9.119	-0.556E-08	0.477E-07	20.506	-0.260E-08	0.433E-07
4.102	0.334E-09	0.391E-07	9.316	-0.566E-08	0.487E-07	21.525	-0.221E-08	0.332E-07
4.303	-0.993E-08	0.209E-07	9.518	-0.572E-08	0.486E-07	22.500	-0.375E-08	0.259E-07
4.507	-0.157E-07	0.126E-07	9.728	-0.576E-08	0.520E-07	23.545	-0.501E-08	0.210E-07
4.702	-0.174E-07	0.122E-07						

TABLE 7. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.749 TO 1.999 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.513E-04	0.662E-04	4.898	-0.456E-08	0.192E-09	9.907	0.110E-09	0.539E-08
0.910	0.102E-03	0.108E-03	5.093	-0.467E-08	0.408E-09	10.209	-0.153E-10	0.536E-08
1.010	0.103E-03	0.107E-03	5.301	-0.470E-08	0.586E-09	10.599	-0.146E-09	0.534E-08
1.110	0.671E-04	0.706E-04	5.505	-0.466E-08	0.855E-09	10.973	-0.199E-09	0.546E-08
1.209	0.316E-04	0.346E-04	5.690	-0.438E-08	0.127E-08	11.412	-0.155E-09	0.562E-08
1.309	0.155E-04	0.186E-04	5.885	-0.380E-08	0.122E-08	11.828	-0.515E-10	0.604E-08
1.410	0.201E-04	0.233E-04	6.090	-0.311E-08	0.127E-08	12.219	0.232E-10	0.626E-08
1.510	0.429E-04	0.453E-04	6.305	-0.252E-08	0.178E-08	12.629	0.841E-10	0.639E-08
1.609	0.751E-04	0.773E-04	6.513	-0.219E-08	0.205E-08	13.005	0.107E-09	0.651E-08
1.708	0.100E-03	0.102E-03	6.712	-0.202E-08	0.230E-08	13.400	0.107E-09	0.658E-08
1.808	0.103E-03	0.105E-03	6.897	-0.195E-08	0.255E-08	13.810	0.857E-10	0.670E-08
1.931	0.792E-04	0.805E-04	7.092	-0.190E-08	0.274E-08	14.179	0.336E-10	0.689E-08
2.102	0.350E-04	0.357E-04	7.294	-0.184E-08	0.306E-08	14.563	-0.841E-10	0.718E-08
2.302	0.747E-05	0.785E-05	7.482	-0.175E-08	0.330E-08	14.962	-0.295E-09	0.715E-08
2.500	0.528E-06	0.758E-06	7.677	-0.162E-08	0.363E-08	15.378	-0.632E-09	0.667E-08
2.699	-0.271E-06	-0.119E-06	7.879	-0.144E-08	0.409E-08	15.813	-0.986E-09	0.615E-08
2.900	-0.139E-06	-0.329E-07	8.090	-0.119E-08	0.444E-08	16.426	-0.152E-08	0.574E-08
3.099	-0.481E-07	0.296E-07	8.309	-0.859E-09	0.478E-08	17.238	-0.207E-08	0.528E-08
3.298	0.647E-08	0.520E-07	8.508	-0.518E-09	0.496E-08	18.019	-0.239E-08	0.447E-08
3.494	0.306E-07	0.612E-07	8.685	-0.246E-09	0.523E-08	18.761	-0.217E-08	0.332E-08
3.700	0.241E-07	0.538E-07	8.899	0.295E-10	0.537E-08	19.551	-0.203E-08	0.350E-08
3.907	0.101E-07	0.293E-07	9.119	0.705E-09	0.540E-08	20.406	-0.192E-08	0.241E-08
4.102	0.112E-08	0.125E-07	9.316	0.255E-09	0.550E-08	21.525	-0.169E-08	0.241E-08
4.303	-0.238E-08	0.340E-08	9.518	0.244E-09	0.552E-08	22.500	-0.145E-08	0.202E-08
4.507	-0.376E-08	0.718E-09	9.728	0.180E-09	0.547E-08	23.545	-0.126E-08	0.190E-08
4.702	-0.435E-08	0.197E-09						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.499 TO 1.749 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.680E-04	0.738E-04	4.898	-0.184E-07	0.122E-07	9.907	-0.189E-09	0.366E-08
0.910	0.418E-04	0.460E-04	5.093	-0.122E-07	0.151E-07	10.209	-0.188E-09	0.376E-08
1.010	0.186E-04	0.216E-04	5.301	-0.930E-08	0.184E-07	10.599	-0.190E-09	0.410E-08
1.110	0.894E-05	0.124E-04	5.505	-0.788E-08	0.210E-07	10.973	-0.198E-09	0.433E-08
1.209	0.177E-04	0.206E-04	5.690	-0.505E-08	0.198E-07	11.412	-0.217E-09	0.449E-08
1.309	0.476E-04	0.505E-04	5.885	-0.263E-08	0.172E-07	11.828	-0.241E-09	0.453E-08
1.410	0.883E-04	0.910E-04	6.090	-0.995E-09	0.147E-07	12.219	-0.261E-09	0.458E-08
1.510	0.113E-03	0.115E-03	6.305	-0.459E-09	0.147E-07	12.629	-0.272E-09	0.466E-08
1.609	0.108E-03	0.110E-03	6.513	-0.136E-08	0.136E-07	13.005	-0.274E-09	0.479E-08
1.708	0.812E-04	0.824E-04	6.712	-0.266E-08	0.129E-07	13.400	-0.269E-09	0.497E-08
1.808	0.493E-04	0.502E-04	6.897	-0.429E-08	0.126E-07	13.810	-0.259E-09	0.517E-08
1.931	0.204E-04	0.212E-04	7.092	-0.508E-08	0.120E-07	14.179	-0.251E-09	0.514E-08
2.102	0.340E-05	0.370E-05	7.294	-0.630E-08	0.107E-07	14.563	-0.247E-09	0.520E-08
2.302	0.219E-06	0.164E-07	7.482	-0.615E-08	0.887E-08	14.962	-0.241E-09	0.544E-08
2.500	0.135E-07	0.174E-06	7.677	-0.585E-08	0.684E-08	15.378	-0.239E-09	0.578E-08
2.699	0.211E-06	0.331E-06	7.879	-0.439E-08	0.490E-08	15.813	-0.235E-09	0.608E-08
2.900	0.176E-06	0.256E-06	8.090	-0.319E-08	0.766E-08	16.426	-0.704E-09	0.647E-08
3.099	0.910E-07	0.151E-06	8.309	-0.209E-08	0.252E-08	17.238	-0.170E-09	0.631E-08
3.298	0.439E-07	0.869E-07	8.508	-0.127E-08	0.256E-08	18.019	-0.122E-09	0.662E-08
3.494	0.213E-07	0.641E-07	8.685	-0.737E-09	0.263E-08	18.761	-0.114E-09	0.655E-08
3.700	0.842E-08	0.433E-07	8.899	-0.266E-08	0.261E-08	19.551	-0.120E-09	0.600E-08
3.907	0.535E-09	0.331E-07	9.119	-0.179E-09	0.293E-08	20.506	-0.155E-09	0.668E-08
4.102	-0.339E-08	0.214E-07	9.316	-0.187E-09	0.306E-08	21.525	-0.185E-09	0.630E-08
4.303	-0.724E-08	0.148E-07	9.518	-0.191E-09	0.322E-08	22.500	-0.222E-09	0.630E-08
4.507	-0.115E-07	0.115E-07	9.728	-0.191E-09	0.357E-08	23.545	-0.205E-09	0.552E-08
4.702	-0.142E-07	0.104E-07						

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 1.249 TO 1.499 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	-0.839E-05	0.426E-05	4.898	-0.790E-08	0.146E-07	9.907	-0.842E-09	0.903E-08
0.910	0.455E-05	0.965E-05	5.093	-0.870E-08	0.182E-07	10.209	-0.121E-08	0.928E-08
1.010	0.301E-04	0.338E-04	5.301	-0.872E-08	0.179E-07	10.599	-0.118E-08	0.101E-07
1.110	0.770E-04	0.802E-04	5.505	-0.752E-08	0.141E-07	10.973	-0.138E-08	0.109E-07
1.209	0.129E-03	0.132E-03	5.690	-0.711E-08	0.122E-07	11.412	-0.136E-08	0.114E-07
1.309	0.148E-03	0.150E-03	5.885	-0.654E-08	0.113E-07	11.828	-0.142E-08	0.123E-07
1.410	0.121E-03	0.123E-03	6.090	-0.624E-08	0.113E-07	12.219	-0.159E-08	0.129E-07
1.510	0.754E-04	0.766E-04	6.305	-0.621E-08	0.117E-07	12.629	-0.188E-08	0.128E-07
1.609	0.374E-04	0.381E-04	6.513	-0.610E-08	0.114E-07	13.005	-0.222E-08	0.126E-07
1.708	0.151E-04	0.155E-04	6.712	-0.544E-08	0.122E-07	13.400	-0.264E-08	0.126E-07
1.808	0.458E-05	0.488E-05	6.897	-0.470E-08	0.134E-07	13.810	-0.106E-08	0.138E-07
1.931	0.231E-06	0.438E-06	7.092	-0.498E-08	0.158E-07	14.179	-0.335E-08	0.142E-07
2.102	-0.491E-06	-0.313E-06	7.294	-0.614E-08	0.189E-07	14.563	-0.350E-08	0.135E-07
2.302	0.652E-07	0.193E-06	7.482	-0.737E-08	0.217E-07	14.962	-0.360E-08	0.148E-07
2.500	0.282E-06	0.390E-06	7.677	-0.811E-08	0.237E-07	15.378	-0.360E-08	0.155E-07
2.699	0.206E-06	0.280E-06	7.879	-0.869E-08	0.243E-07	15.813	-0.142E-08	0.157E-07
2.900	0.957E-07	0.142E-06	8.090	-0.959E-08	0.229E-07	16.426	-0.304E-08	0.170E-07
3.099	0.277E-07	0.648E-07	8.309	-0.806E-08	0.177E-07	17.238	-0.254E-08	0.156E-07
3.298	-0.115E-08	0.288E-07	8.508	-0.638E-08	0.141E-07	18.019	-0.251E-08	0.165E-07
3.494	-0.932E-08	0.112E-07	8.685	-0.486E-08	0.119E-07	18.761	-0.270E-08	0.172E-07
3.700	-0.104E-07	0.829E-08	8.899	-0.321E-08	0.994E-08	19.551	-0.332E-08	0.168E-07
3.907	-0.981E-08	0.918E-08	9.119	-0.198E-08	0.920E-08	20.506	-0.407E-08	0.132E-07
4.102	-0.997E-08	0.889E-08	9.316	-0.123E-08	0.859E-08	21.525	-0.304E-08	0.110E-07
4.303	-0.980E-08	0.954E-08	9.518	-0.702E-09	0.880E-08	22.500	-0.297E-08	0.122E-07
4.507	-0.738E-08	0.111E-07	9.728	-0.582E-09	0.884E-08	23.545	-0.234E-08	0.134E-07
4.702	-0.722E-08	0.129E-07						

TABLE 7. CONTINUED

APPROXIMATE SCATTERING ANGLE = 90 DEGREES.

INCIDENT NEUTRON ENERGY RANGE = 0.999 TO 1.249 MEV.

IRON FILTERED BEAM

NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)		NEUT. ENERGY (MEV)	FLUX(N/CM**2/MEV)	
	LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT		LOWER LIMIT	UPPER LIMIT
0.809	0.247E-04	0.411E-04	4.090	0.143E-09	0.418E-08	9.907	-0.123E-09	0.388E-08
0.910	0.101E-03	0.107E-03	5.093	0.282E-09	0.466E-08	10.209	-0.163E-09	0.386E-08
1.010	0.173E-03	0.176E-03	5.301	0.110E-09	0.466E-08	10.599	-0.219E-09	0.414E-08
1.110	0.176E-03	0.178E-03	5.505	-0.272E-09	0.433E-08	10.973	-0.250E-09	0.429E-08
1.209	0.122E-03	0.124E-03	5.690	-0.606E-09	0.403E-08	11.412	-0.250E-09	0.387E-08
1.309	0.627E-04	0.636E-04	5.885	-0.769E-09	0.328E-08	11.828	-0.234E-09	0.451E-08
1.410	0.244E-04	0.249E-04	6.090	-0.877E-09	0.262E-08	12.219	-0.223E-09	0.457E-08
1.510	0.734E-05	0.764E-05	6.305	-0.105E-08	0.249E-08	12.629	-0.247E-09	0.462E-08
1.609	0.146E-05	0.166E-05	6.513	-0.125E-08	0.229E-08	13.005	-0.300E-09	0.469E-08
1.708	-0.828E-07	0.738E-07	6.712	-0.139E-08	0.219E-08	13.400	-0.359E-09	0.422E-08
1.808	-0.303E-06	-0.169E-06	6.897	-0.152E-08	0.215E-08	13.810	-0.402E-09	0.427E-08
1.911	-0.184E-06	-0.652E-07	7.092	-0.165E-08	0.218E-08	14.179	-0.436E-09	0.477E-08
2.102	0.207E-07	0.123E-06	7.294	-0.173E-08	0.228E-08	14.563	-0.436E-09	0.494E-08
2.302	0.174E-06	0.263E-06	7.482	-0.173E-08	0.228E-08	14.962	-0.467E-09	0.465E-08
2.500	0.169E-06	0.236E-06	7.677	-0.165E-08	0.226E-08	15.378	-0.536E-09	0.477E-08
2.699	0.890E-07	0.139E-06	7.879	-0.149E-08	0.233E-08	15.813	-0.629E-09	0.472E-08
2.900	0.340E-07	0.652E-07	8.090	-0.128E-08	0.234E-08	16.426	-0.629E-09	0.499E-08
3.099	0.910E-08	0.330E-07	8.309	-0.923E-09	0.260E-08	17.238	-0.395E-09	0.533E-08
3.298	0.665E-09	0.193E-07	8.508	-0.609E-09	0.279E-08	18.019	-0.523E-10	0.530E-08
3.494	-0.176E-08	0.991E-08	8.685	-0.378E-09	0.293E-08	18.761	0.169E-09	0.476E-08
3.700	-0.331E-08	0.655E-08	8.899	-0.196E-09	0.314E-08	19.551	0.316E-09	0.496E-08
3.907	-0.402E-08	0.375E-08	9.119	-0.119E-09	0.328E-08	20.506	0.184E-09	0.410E-08
4.102	-0.351E-08	0.209E-08	9.316	-0.970E-10	0.338E-08	21.525	-0.395E-10	0.348E-08
4.303	-0.233E-08	0.179E-08	9.518	-0.946E-10	0.353E-08	22.500	-0.181E-09	0.290E-08
4.507	-0.105E-08	0.254E-08	9.728	-0.105E-09	0.384E-08	23.545	-0.234E-09	0.251E-08
4.702	-0.294E-09	0.342E-08						

TABLE 8.

TOTAL SECONDARY NEUTRON YIELD, NORMALIZED TO UNIT INCIDENT NEUTRON, AND AVERAGE SECONDARY ENERGY AS A FUNCTION OF INCIDENT NEUTRON ENERGY. THE VALUES GIVEN REPRESENT THE AVERAGE OVER THE PROJECTED AREA OF THE DETECTOR AS SEEN FROM THE SCATTERING RING. VALUES IN PARENTHESES ARE STANDARD DEVIATIONS. THE APPROXIMATE SCATTERING ANGLE IS 90 DEGREES. THE MINIMUM NEUTRON ENERGY SAMPLED IS 0.760 MEV.

IRON FILTERED BEAM

INC. NT. ENERGY (MEV)	ENERGY SPREAD (MEV)	SECONDARY NEUTRON FLUX (N/CM**2)	AVERAGE ENERGY (MEV)	INC. NT. ENERGY (MEV)	ENERGY SPREAD (MEV)	SECONDARY NEUTRON FLUX (N/CM**2)	AVERAGE ENERGY (MEV)
1.010	0.021	0.590E-04 (0.452E-05)	0.995E 00(0.958E-01)	2.408	0.017	0.106E-03 (0.485E-05)	0.177E 01(0.893E-01)
1.030	0.019	0.101E-03 (0.546E-05)	0.966E 00(0.661E-01)	2.430	0.027	0.941E-04 (0.384E-05)	0.190E 01(0.851E-01)
1.050	0.020	0.104E-03 (0.530E-05)	0.100E 01(0.642E-01)	2.452	0.018	0.997E-04 (0.452E-05)	0.182E 01(0.915E-01)
1.070	0.021	0.699E-04 (0.441E-05)	0.102E 01(0.800E-01)	2.470	0.018	0.984E-04 (0.491E-05)	0.192E 01(0.105E 00)
1.089	0.018	0.727E-04 (0.463E-05)	0.102E 01(0.807E-01)	2.488	0.018	0.107E-03 (0.514E-05)	0.187E 01(0.988E-01)
1.110	0.022	0.575E-04 (0.434E-05)	0.106E 01(0.984E-01)	2.506	0.018	0.964E-04 (0.489E-05)	0.194E 01(0.108E 00)
1.130	0.020	0.721E-04 (0.472E-05)	0.106E 01(0.855E-01)	2.530	0.028	0.960E-04 (0.385E-05)	0.192E 01(0.847E-01)
1.150	0.020	0.575E-04 (0.434E-05)	0.113E 01(0.103E 00)	2.553	0.019	0.860E-04 (0.464E-05)	0.203E 01(0.119E 00)
1.171	0.021	0.593E-04 (0.405E-05)	0.108E 01(0.904E-01)	2.572	0.019	0.865E-04 (0.474E-05)	0.196E 01(0.118E 00)
1.190	0.018	0.571E-04 (0.455E-05)	0.118E 01(0.112E 00)	2.592	0.019	0.795E-04 (0.465E-05)	0.206E 01(0.131E 00)
1.210	0.022	0.730E-04 (0.425E-05)	0.114E 01(0.799E-01)	2.611	0.020	0.974E-04 (0.498E-05)	0.197E 01(0.110E 00)
1.230	0.019	0.787E-04 (0.458E-05)	0.116E 01(0.809E-01)	2.631	0.020	0.922E-04 (0.498E-05)	0.203E 01(0.120E 00)
1.249	0.019	0.806E-04 (0.455E-05)	0.118E 01(0.790E-01)	2.651	0.020	0.930E-04 (0.518E-05)	0.204E 01(0.124E 00)
1.269	0.020	0.830E-04 (0.449E-05)	0.120E 01(0.771E-01)	2.671	0.020	0.838E-04 (0.482E-05)	0.208E 01(0.131E 00)
1.289	0.020	0.572E-04 (0.404E-05)	0.126E 01(0.104E 00)	2.692	0.020	0.870E-04 (0.531E-05)	0.205E 01(0.137E 00)
1.310	0.021	0.807E-04 (0.440E-05)	0.121E 01(0.783E-01)	2.712	0.021	0.956E-04 (0.588E-05)	0.213E 01(0.143E 00)
1.329	0.018	0.797E-04 (0.483E-05)	0.132E 01(0.421E-01)	2.733	0.021	0.100E-03 (0.582E-05)	0.212E 01(0.134E 00)
1.349	0.022	0.633E-04 (0.403E-05)	0.133E 01(0.975E-01)	2.755	0.021	0.937E-04 (0.582E-05)	0.217E 01(0.146E 00)
1.369	0.019	0.449E-04 (0.357E-05)	0.129E 01(0.119E 00)	2.771	0.011	0.873E-04 (0.879E-05)	0.228E 01(0.247E 00)
1.390	0.023	0.550E-04 (0.335E-05)	0.133E 01(0.937E-01)	2.787	0.022	0.933E-04 (0.593E-05)	0.215E 01(0.149E 00)
1.411	0.020	0.695E-04 (0.396E-05)	0.134E 01(0.880E-01)	2.809	0.022	0.897E-04 (0.568E-05)	0.220E 01(0.151E 00)
1.431	0.020	0.710E-04 (0.373E-05)	0.128E 01(0.785E-01)	2.831	0.022	0.809E-04 (0.560E-05)	0.226E 01(0.169E 00)
1.451	0.020	0.706E-04 (0.368E-05)	0.139E 01(0.831E-01)	2.853	0.022	0.829E-04 (0.519E-05)	0.217E 01(0.148E 00)
1.470	0.016	0.507E-04 (0.359E-05)	0.138E 01(0.112E 00)	2.870	0.011	0.862E-04 (0.759E-05)	0.215E 01(0.206E 00)
1.489	0.021	0.459E-04 (0.303E-05)	0.141E 01(0.106E 00)	2.887	0.023	0.936E-04 (0.558E-05)	0.218E 01(0.141E 00)
1.510	0.022	0.557E-04 (0.304E-05)	0.137E 01(0.860E-01)	2.910	0.023	0.904E-04 (0.533E-05)	0.225E 01(0.144E 00)
1.530	0.018	0.668E-04 (0.360E-05)	0.144E 01(0.884E-01)	2.933	0.023	0.921E-04 (0.532E-05)	0.214E 01(0.135E 00)
1.550	0.022	0.562E-04 (0.300E-05)	0.147E 01(0.888E-01)	2.951	0.012	0.848E-04 (0.766E-05)	0.225E 01(0.220E 00)
1.570	0.018	0.513E-04 (0.316E-05)	0.147E 01(0.103E 00)	2.969	0.024	0.109E-03 (0.541E-05)	0.208E 01(0.113E 00)
1.588	0.019	0.616E-04 (0.336E-05)	0.142E 01(0.885E-01)	2.993	0.024	0.989E-04 (0.547E-05)	0.236E 01(0.141E 00)
1.610	0.024	0.719E-04 (0.310E-05)	0.143E 01(0.708E-01)	3.011	0.012	0.104E-03 (0.778E-05)	0.230E 01(0.166E 00)
1.631	0.019	0.727E-04 (0.326E-05)	0.137E 01(0.710E-01)	3.029	0.025	0.908E-04 (0.501E-05)	0.231E 01(0.138E 00)
1.651	0.020	0.852E-04 (0.332E-05)	0.131E 01(0.597E-01)	3.048	0.012	0.931E-04 (0.764E-05)	0.211E 01(0.189E 00)
1.671	0.020	0.837E-04 (0.329E-05)	0.131E 01(0.603E-01)	3.066	0.025	0.891E-04 (0.503E-05)	0.224E 01(0.137E 00)
1.691	0.020	0.905E-04 (0.353E-05)	0.130E 01(0.594E-01)	3.092	0.025	0.867E-04 (0.489E-05)	0.237E 01(0.144E 00)
1.712	0.021	0.959E-04 (0.357E-05)	0.128E 01(0.559E-01)	3.111	0.013	0.950E-04 (0.710E-05)	0.222E 01(0.182E 00)
1.730	0.016	0.972E-04 (0.425E-05)	0.128E 01(0.657E-01)	3.130	0.026	0.907E-04 (0.484E-05)	0.228E 01(0.132E 00)
1.749	0.022	0.115E-03 (0.399E-05)	0.131E 01(0.532E-01)	3.149	0.013	0.779E-04 (0.661E-05)	0.245E 01(0.224E 00)
1.771	0.022	0.106E-03 (0.389E-05)	0.139E 01(0.588E-01)	3.169	0.026	0.849E-04 (0.473E-05)	0.244E 01(0.147E 00)
1.790	0.017	0.901E-04 (0.426E-05)	0.140E 01(0.761E-01)	3.189	0.013	0.918E-04 (0.647E-05)	0.231E 01(0.179E 00)
1.810	0.023	0.949E-04 (0.368E-05)	0.139E 01(0.621E-01)	3.209	0.027	0.792E-04 (0.459E-05)	0.250E 01(0.157E 00)
1.829	0.017	0.897E-04 (0.445E-05)	0.150E 01(0.841E-01)	3.229	0.013	0.808E-04 (0.660E-05)	0.230E 01(0.204E 00)
1.850	0.023	0.940E-04 (0.392E-05)	0.142E 01(0.676E-01)	3.249	0.027	0.690E-04 (0.438E-05)	0.248E 01(0.170E 00)
1.871	0.018	0.939E-04 (0.455E-05)	0.148E 01(0.814E-01)	3.270	0.014	0.811E-04 (0.629E-05)	0.236E 01(0.195E 00)
1.888	0.018	0.835E-04 (0.436E-05)	0.145E 01(0.863E-01)	3.291	0.028	0.754E-04 (0.435E-05)	0.247E 01(0.155E 00)
1.910	0.025	0.810E-04 (0.377E-05)	0.146E 01(0.771E-01)	3.312	0.014	0.771E-04 (0.655E-05)	0.250E 01(0.229E 00)
1.932	0.019	0.876E-04 (0.430E-05)	0.140E 01(0.787E-01)	3.333	0.028	0.718E-04 (0.427E-05)	0.269E 01(0.172E 00)
1.950	0.019	0.102E-03 (0.479E-05)	0.137E 01(0.738E-01)	3.354	0.014	0.805E-04 (0.602E-05)	0.252E 01(0.204E 00)
1.970	0.019	0.105E-03 (0.460E-05)	0.144E 01(0.722E-01)	3.369	0.014	0.947E-04 (0.601E-05)	0.223E 01(0.157E 00)
1.989	0.020	0.110E-03 (0.473E-05)	0.153E 01(0.746E-01)	3.390	0.029	0.767E-04 (0.418E-05)	0.254E 01(0.150E 00)
2.009	0.020	0.104E-03 (0.466E-05)	0.151E 01(0.762E-01)	3.412	0.015	0.720E-04 (0.590E-05)	0.269E 01(0.237E 00)
2.029	0.020	0.962E-04 (0.450E-05)	0.145E 01(0.771E-01)	3.427	0.015	0.726E-04 (0.692E-05)	0.272E 01(0.235E 00)
2.049	0.020	0.949E-04 (0.447E-05)	0.152E 01(0.807E-01)	3.449	0.030	0.833E-04 (0.390E-05)	0.246E 01(0.129E 00)
2.070	0.021	0.943E-04 (0.453E-05)	0.157E 01(0.845E-01)	3.472	0.015	0.844E-04 (0.540E-05)	0.239E 01(0.169E 00)
2.091	0.021	0.111E-03 (0.477E-05)	0.152E 01(0.737E-01)	3.487	0.015	0.776E-04 (0.586E-05)	0.255E 01(0.210E 00)
2.112	0.021	0.908E-04 (0.445E-05)	0.157E 01(0.864E-01)	3.510	0.031	0.800E-04 (0.423E-05)	0.249E 01(0.143E 00)
2.130	0.014	0.886E-04 (0.541E-05)	0.157E 01(0.107E 00)	3.533	0.015	0.845E-04 (0.605E-05)	0.243E 01(0.189E 00)
2.148	0.022	0.935E-04 (0.448E-05)	0.154E 01(0.830E-01)	3.548	0.016	0.965E-04 (0.642E-05)	0.224E 01(0.164E 00)
2.170	0.022	0.920E-04 (0.442E-05)	0.159E 01(0.855E-01)	3.572	0.031	0.938E-04 (0.409E-05)	0.247E 01(0.119E 00)
2.189	0.015	0.889E-04 (0.524E-05)	0.165E 01(0.108E 00)	3.595	0.016	0.835E-04 (0.588E-05)	0.267E 01(0.204E 00)
2.208	0.023	0.103E-03 (0.438E-05)	0.161E 01(0.769E-01)	3.611	0.016	0.842E-04 (0.577E-05)	0.267E 01(0.198E 00)
2.231	0.023	0.982E-04 (0.424E-05)	0.165E 01(0.796E-01)	3.627	0.016	0.911E-04 (0.585E-05)	0.245E 01(0.173E 00)
2.251	0.016	0.986E-04 (0.509E-05)	0.166E 01(0.954E-01)	3.644	0.016	0.750E-04 (0.615E-05)	0.267E 01(0.236E 00)
2.270	0.024	0.940E-04 (0.428E-05)	0.171E 01(0.856E-01)	3.668	0.033	0.854E-04 (0.416E-05)	0.259E 01(0.137E 00)
2.290	0.016	0.978E-04 (0.545E-05)	0.179E 01(0.109E 00)	3.693	0.016	0.809E-04 (0.601E-05)	0.287E 01(0.229E 00)
2.311	0.025	0.109E-03 (0.430E-05)	0.176E 01(0.769E-01)	3.709	0.017	0.870E-04 (0.601E-05)	0.263E 01(0.197E 00)
2.331	0.017	0.114E-03 (0.509E-05)	0.174E 01(0.665E-01)	3.726	0.017	0.883E-04 (0.567E-05)	0.240E 01(0.171E 00)
2.348	0.017	0.109E-03 (0.513E-05)	0.175E 01(0.917E-01)	3.751	0.034	0.774E-04 (0.420E-05)	0.250E 01(0.148E 00)
2.369	0.025	0.100E-03 (0.398E-05)	0.183E 01(0.801E-01)	3.777	0.017	0.710E-04 (0.564E-05)	0.273E 01(0.234E 00)
2.391	0.017	0.111E-03 (0.494E-05)	0.180E 01(0.888E-01)	3.798	0.017	0.807E-04 (0.543E-05)	0.262E 01(0.193E 00)

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