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OF THE UNIVERSITY OF CALIFORNIA o LOS ALAMOS NEW MEXICO

NEUTRON CROSS SECTIONS

FOR FAST AND INTERMEDIATE NUCLEAR REACTORS

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NEUTRON CROSS SECTIONS FOR FAST AND INTERMEDIATE NUCLEAR REACTORS

by

C. B. Mills

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ABSTRACT

A neutron transport equation which was solved numerically (the SNG code by B. Carlson) has been connected with multigroup neutron cross sections and critical assemblies to display the area of coverage (fast to epithermal reactors) and range of errors ($\Delta k \simeq \pm 1\%$). The cross sections, critical assemblies, and results are tabulated.

INTRODUCTION

A continuing effort has been made to generalize neutron cross sections in reactor physics for a very wide variation in neutron flux distribution, i.e., for a very wide variation in reactor size and materials. It is demonstrated in an accompanying note that intermediate reactors are tractable; work by R. Kiehn, G. Hansen and others has shown that fast reactors are tractable. The complete set of possible nuclear reactors is of interest here.

METHOD

The equations used in this study are only the familiar multigroup numerical form of the transport equation known as the SNG equations of Carlson.[1] Diffusion theory results will be reported separately. The associated number and description of fast neutron flux groups proposed to be most general and to make best use of the recent

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[1] B. G. Carlson, "Solution of the Transport Equation by S_n Approximations," LA-1891, Ofc. of Technical Services, Dept. of Commerce.

work of Hansen, Kiehn, and Bell is shown on Table I. This table leans heavily on the technical notes of Hansen and Roach[2] for the higher energy groups 1-6 of the 18 group intermediate reactor set both because of the care with which the group energy limits, etc., were chosen and because of the relative absence of systematic errors.

The complex of neutron cross sections, computing code, and "clean" basic critical experiment is displayed in part in Tables II, containing neutron cross sections, Tables III containing experiments, and Tables IV containing a set of critical experiment calculations. The fast reactor experiments were chosen to provide adequate coverage of a wide variety of fast systems and the intermediate systems were chosen to represent extremes in intermediate reactor parameters for each different moderator. Tables II, the microscopic neutron cross sections, are subject to revision and extension as the systematic study of the experiments in Tables III is developed and as new data appears. Safety experiments and calculations are included to illustrate the extreme versatility of the data and methods.

COMPUTING PROCEDURE

The operational procedure is to compute all reactors with

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[2] L. A. Tech. Notes, N-2-731 and 753 by G. Hansen and W. Roach.

existing neutron cross sections constructed from available tabulations (Bell, Hansen, Kiehn, and Mills), as derived from the many sources of cross section values (see cross section bibliography) consistent with Table I. Systematic errors then force changes in the light of theoretical work of Beyster et al., BNL-325, etc., and other sources such as reactor experiments. A sufficiently wide change of parameters (composition and size) of the reference reactor critical experiments essentially weights different energy regions of the neutron cross sections in an integral way, because of the large change in flux spectrum ($\phi(u)$ or $\phi(E)$) from system to system as well as in various positions in one reactor. Thus a display of k_{eff} for each of a small number but a wide variety of reactors is sufficient as a first order validation of the accuracy of the energy dependence of the neutron cross sections of the materials in an integral sense. More detail is possible by foil activation and material (element) reactivity and reactivity distribution.

NEUTRON CROSS SECTIONS

The group averaged fast (10^7 to 10^3 ev) neutron cross sections for the heavy elements are those evolved by G. Hansen and W. Roach in their fast reactor study.* These could not be improved by a careful

*This is in process of publication.

study and were accepted in toto. A. Green is presently engaged in a theoretical development of fast neutron differential cross sections and may be able to improve this set.

Neutron cross sections in the light elements used as moderators were evolved by conventional procedures, weighted by neutron flux spectra. Resonance analyses by J. Devaney and G. Bell permitted facile inclusion of these very troublesome numbers. The restrictions implied by 1-dimensional computing methods were relieved in part by a simple "equivalent escape probability" for the second dimension in slab or cylindrical systems.

In spite of the great volume of work available in reactor physics, still "the proof of the pudding is in the eating," so a laborious justification of the group averaged neutron cross sections evolved will not be attempted. Possibly in the not too distant future the basic numbers will be in sufficient supply to justify more exact methods and treatment.

REACTOR CRITICAL ASSEMBLIES

The fast reactor critical assemblies were supplied by G. Hansen; the fast reactor "safety" experiments were found in a summary by H. Paxton.[3] Intermediate reactors studied are described with appropriate

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[3] H. C. Paxton, "Critical Masses of Fissionable Metals as Basic Nuclear Safety Data," LA-1958 (1955).

references (through the present writer, when no cross check by the originating person was possible) from the literature.

The existence of possibly correct neutron flux distributions (also see LAMS-2240) for a wide variety of reactor critical experiments is of interest to those groups limited to one or few group methods for few group averaged neutron cross sections. For this reason, the energy and space distribution of neutron flux in these systems is presented below.

It should be emphasized that in a sense all of the reactors herein described are implicit in the neutron cross sections displayed and the numerical computing code. There is then an infinity of reactors both interpolated and extrapolated (but not too far) implicit in the same sense, and novel or developed systems can be analyzed and predicted in detail with confidence consistent with the small systematic errors herein displayed. Clearly, more clean systems should be studied to decrease these errors.

SUMMARY

The compilations of neutron cross sections and the available reasonably clean basic reactor critical assemblies have been coordinated by the SNG transport approximation. It is apparent in studying the tabulated results that few reactor critical assemblies can be considered either "clean" or "basic." Within the normal uncertainties in studies

of this sort the entire set can be considered consistent. The group averaged neutron cross sections are shown to have approximately second order accuracy, so that more detailed experimental analyses of moderated systems is in order. In this connection, the "speed up" probabilities of neutrons moving from the cold to hot regions of reactors, computed by J. G. Griffin (LASL), are added to the cross section tabulation without validation to assist in evaluation of the thermal flux distribution in high temperature critical assemblies.

TABLE I

NEUTRON FLUX GROUPS[2]

Group	Energy Range from 10 Mev	u^i	U^i	(a) $\bar{v}^i(\times 10^8)$cm/sec	(b) Fission Spectrum f^i	(c) $v^{th}/\bar{v}$
1	3 Mev	1.204	1.204	28.5	0.204	
2	1.4	1.966	0.762	19.9	0.344	
3	0.9	2.408	0.442	14.7	0.168	
4	0.4	3.219	0.811	11.0	0.180	
5	0.1	4.605	1.386	6.7	0.090	0.00033
6	17 Kev	6.377	1.772	2.70	0.014	0.00081
7	3	8	1.623	1.237	0	0.00172
8	0.454	10	2	.5071	0	0.00471
9	61.44 ev	12	2	.1866	0	0.0128
10	22.60	13	1	.0854	0	0.0263
11	8.315	14	1	.0518	0	0.0433
12	3.059	15	1	.0314	0	0.0714
13	1.1256	16	1	.0191	0	0.1176
14	0.4141	17	1	.0116	0	0.1770
15	0.1523	18	1	.00701	0	0.320
16	0.0561	19	1	.00425	0	0.528
17	0.0252	19.8	0.8	.00270	0	0.824
18	Thermal	--	1	0.00220	0	1

a. $\bar{v}$ (ϕ weighted)

b. Mean value in group i from integration of spectrum f(u)

c. $\bar{v}$ (ϕ/v weighted)

TABLE II

6-GROUP CROSS SECTIONS FOR FAST SYSTEMS AND 18-GROUP CROSS SECTIONS FOR FAST TO THERMAL SYSTEMS

	i	$\nu\sigma_f$	σ_{tr}	σ_{gg}	σ_{gg+1}	σ_{gg+2}	σ_{gg+3}	σ_{gg+4}	σ_{gg+5}
H-1	i	0.64000 BB	0.04734						
	1	0.000000 00	6.0000000-01	-8.900000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	2	0.000000 00	9.300000-01	-1.300000 00	8.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	3	0.000000 00	1.330000 00	-1.930000 00	8.000000-01	2.500000-01	0.000000 00	0.000000 00	0.000000 00
	4	0.000000 00	1.830000 00	-1.940000 00	1.800000 00	8.000000-01	2.500000-01	0.000000 00	0.000000 00
	5	0.000000 00	3.000000 00	-1.870000 00	2.830000 00	1.100000 00	4.800000-01	1.500000-01	0.000000 00
	6	0.000000 00	5.190000 00	5.190000 00	4.870000 00	9.400000-01	3.600000-01	1.500000-01	4.000000-02
									SEP 12 58
D		0.64000 BB	0.05027						
		0.000000 00	1.290000 00	-2.500000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.770000 00	-1.700000-01	1.020000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.980000 00	-3.500000-01	8.200000-01	3.100000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.080000 00	7.000000-02	1.500000 00	8.200000-01	2.100000-01	0.000000 00	0.000000 00
		0.000000 00	2.250000 00	6.200000-01	1.800000 00	8.300000-01	3.000000-01	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	2.350000 00	1.630000 00	2.100000-01	0.000000 00	0.000000 00	0.000000 00
									SEP 12 58
Be 9		0.64000 BB	0.05110						
		0.000000 00	8.420000-01	-1.800000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.275000 00	7.340000-01	8.180000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.380000 00	1.173000 00	5.090000-01	3.500000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.310000 00	2.397000 00	1.207000 00	1.200000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.940000 00	3.306000 00	9.130000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	5.180000 00	5.180000 00	6.340000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
									SEP 12 58
C 12		0.64000 BB	0.05176						
		0.000000 00	1.230000 00	7.150000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.420000 00	1.105999 00	5.150000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.260000 00	1.404000 00	3.140000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.930000 00	2.326000 00	8.560000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.590000 00	3.157000 00	6.040000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	4.250000 00	4.250000 00	4.330000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
									SEP 12 58
O		0.64000 BB	0.05264						
		0.000000 00	1.330000 00	8.660000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.179999 00	9.890000-01	4.240000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.230000 00	2.328000 00	1.910000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.630000 00	3.074000 00	9.020000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.710000 00	3.373000 00	5.560000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.260000 00	3.260000 00	3.370000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
									SEP 12 58
Fe 26		0.64000 BB	0.05352						
		0.000000 00	1.713000 00	5.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.322000 00	1.500000 00	1.210000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.610000 00	1.899000 00	4.770000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.764000 00	2.641000 00	3.350000-01	3.220000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.816000 00	2.744000 00	1.230000-01	3.460000-01	2.300000-02	0.000000 00	0.000000 00
		0.000000 00	4.377000 00	4.377000 00	7.100000-02	0.000000 00	3.000000-02	0.000000 00	0.000000 00
									SEP 12 58
U^{233}		0.64000 BB	0.05440						
		5.285000 00	4.250000 00	1.179999 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		4.941000 00	4.500000 00	1.510000 00	2.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		4.933000 00	4.800000 00	1.990000 00	1.800000-01	2.700000-01	0.000000 00	0.000000 00	0.000000 00
		4.986000 00	5.700000 00	3.270000 00	4.500000-01	5.000000-01	4.500000-01	0.000000 00	0.000000 00
		5.667000 00	8.400000 00	5.880000 00	2.900000-01	3.000000-01	3.500000-01	3.100000-01	0.000000 00
		8.107000 00	1.200000 01	8.170000 00	5.000000-02	5.000000-02	6.000000-02	5.000000-02	4.000000-02
									SEP 12 58
U^{235}		0.64000 BB	0.05526						
		3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
		2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
		3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00

	5.710000 00	1.200000 01	9.060000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
								SEP 12 58
U^{238}	0.64000 BB	0.05614						
	1.725000 00	4.000000 00	1.254000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	1.213000 00	4.400000 00	1.825000 00	3.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	1.079999-01	4.500000 00	2.906000 00	3.500000-01	4.600000-01	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.250000 00	4.530000 00	8.000000-01	9.600000-01	7.900000-01	0.000000 00	0.000000 00
	0.000000 00	8.200000 00	7.960000 00	5.000000-01	5.500000-01	6.400000-01	5.300000-01	0.000000 00
	0.000000 00	1.179999 01	1.140000 01	8.000000-02	8.000000-02	1.000000-01	9.000000-02	7.000000-02
								SEP 12 58
Pu^{239}	0.64000 BB	0.05702						
	6.612000 00	4.250000 00	1.050000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	6.026000 00	4.500000 00	1.420000 00	2.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	5.472000 00	4.800000 00	2.090000 00	1.800000-01	2.700000-01	0.000000 00	0.000000 00	0.000000 00
	4.981000 00	5.700000 00	3.550000 00	3.000000-01	3.500000-01	3.100000-01	0.000000 00	0.000000 00
	4.810000 00	8.400000 00	6.310000 00	2.900000-01	3.000000-01	3.500000-01	3.100000-01	0.000000 00
	5.863000 00	1.200000 01	9.450000 00	5.000000-02	5.000000-02	6.000000-02	5.000000-02	4.000000-02
								SEP 12 58
Pu^{240}	0.64000 BB	0.05770						
	5.952000 00	4.250000 00	1.030000 00	2.400000-01	3.300000-01	5.500000-01	4.000000-01	5.000000-02
	5.267000 00	4.500000 00	1.620000 00	2.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	4.587000 00	4.650000 00	2.240000 00	2.200000-01	3.300000-01	0.000000 00	0.000000 00	0.000000 00
	2.487000 00	5.450000 00	4.070000 00	5.000000-01	5.800000-01	5.500000-01	0.000000 00	0.000000 00
	1.590000-01	8.200000 00	7.870000 00	4.000000-01	3.500000-01	4.000000-01	4.000000-01	0.000000 00
	0.000000 00	1.179999 01	1.120000 01	5.000000-02	6.000000-02	6.000000-02	6.000000-02	5.000000-02

		$\nu\sigma_f$	σ_{tr}	σ_{gg}	σ_{gg+1}	σ_{gg+2}	σ_{gg+3}	σ_{gg+4}	σ_{gg+5}
H I		0.64000 BB	0.07022						
REFL	1	0.000000 00	1.370000 00	3.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	2	0.000000 00	2.000000 00	5.200000-01	5.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	3	0.000000 00	2.770000 00	6.100000-01	5.300000-01	1.700000-01	0.000000 00	0.000000 00	0.000000 00
	4	0.000000 00	3.520000 00	1.000000 00	1.200000 00	5.300000-01	1.700000-01	0.000000 00	0.000000 00
	5	0.000000 00	4.410000 00	1.170000 00	1.890000 00	7.200000-01	3.200000-01	1.000000-01	0.000000 00
	6	0.000000 00	6.920000 00	2.060000 00	2.690000 00	5.200000-01	2.000000-01	9.000000-02	3.000000-02
	7	0.000000 00	1.047000 01	4.250000 00	3.910000 00	4.500000-01	9.000000-02	3.000000-02	1.000000-02
	8	0.000000 00	1.047200 01	4.740000 00	5.390000 00	8.300000-01	9.000000-02	2.000000-02	1.000000-02
	9	0.000000 00	1.047400 01	4.740000 00	4.990000 00	7.300000-01	1.100000-01	1.000000-02	0.000000 00
	10	0.000000 00	1.223900 01	3.850000 00	3.650000 00	4.900000-01	7.000000-02	1.000000-02	0.000000 00
	11	0.000000 00	1.223400 01	3.850000 00	5.330000 00	1.340000 00	1.800000-01	3.000000-02	0.000000 00
	12	0.000000 00	1.224200 01	3.850000 00	5.320000 00	1.960000 00	4.900000-01	7.000000-02	0.000000 00
	13	0.000000 00	1.226000 01	3.850000 00	5.320000 00	1.960000 00	7.200000-01	1.800000-01	0.000000 00
	14	0.000000 00	1.228400 01	3.850000 00	5.320000 00	1.960000 00	7.200000-01	2.700000-01	7.000000-02
	15	0.000000 00	1.232800 01	3.850000 00	5.320000 00	1.960000 00	7.200000-01	2.700000-01	1.000000-01
	16	0.000000 00	2.001400 01	5.010000 00	5.320000 00	1.960000 00	7.200000-01	2.700000-01	1.000000-01
	17	0.000000 00	2.250000 01	6.940000 00	1.087000 01	1.960000 00	7.200000-01	2.700000-01	1.000000-01
	18	0.000000 00	3.428000 01	3.400000 01	1.530000 01	3.960000 00	1.090000 00	3.700000-01	1.000000-01
									OCT 04 58
H I		0.64000 BB	0.07264						
Bare		0.000000 00	6.000000-01	-8.900000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	9.300000-01	-1.300000 00	8.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.330000 00	-1.930000 00	8.000000-01	2.500000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.830000 00	-1.940000 00	1.800000 00	8.000000-01	2.500000-01	0.000000 00	0.000000 00
		0.000000 00	3.000000 00	-1.870000 00	2.830000 00	1.100000 00	4.800000-01	1.500000-01	0.000000 00
		0.000000 00	5.190000 00	-2.110000 00	4.040000 00	7.800000-01	3.000000-01	1.300000-01	4.000000-02
		0.000000 00	8.330000 00	-1.010000 00	5.870000 00	6.700000-01	1.300000-01	5.000000-02	2.000000-02
		0.000000 00	8.662200 00	7.000000-02	8.080000 00	1.240000 00	1.400000-01	3.000000-02	1.000000-02
		0.000000 00	8.664000 00	7.000000-02	7.480000 00	1.100000 00	1.700000-01	2.000000-02	0.000000 00
		0.000000 00	8.669000 00	-3.900000 00	5.470000 00	7.400000-01	1.100000-01	2.000000-02	0.000000 00
		0.000000 00	8.674000 00	-3.890000 00	7.990000 00	2.010000 00	2.700000-01	4.000000-02	0.000000 00
		0.000000 00	8.682000 00	-3.890000 00	7.980000 00	2.940000 00	7.400000-01	1.000000-01	1.000000-02
		0.000000 00	8.700000 00	-3.890000 00	7.980000 00	2.940000 00	1.080000 00	2.700000-01	0.000000 00
		0.000000 00	8.724000 00	-3.890000 00	7.980000 00	2.940000 00	1.080000 00	4.000000-01	1.000000-01
		0.000000 00	8.768000 00	-3.890000 00	7.980000 00	2.940000 00	1.080000 00	4.000000-01	1.500000-01
		0.000000 00	1.083400 01	-5.650000 00	7.980000 00	2.940000 00	1.080000 00	4.000000-01	1.500000-01
		0.000000 00	1.445000 01	-8.780000 00	1.036999 01	2.940000 00	1.080000 00	4.000000-01	1.500000-01
		0.000000 00	3.428000 01	3.400000 01	2.297000 01	5.940000 00	1.630000 00	5.500000-01	1.500000-01
									OCT 04 58
D 2		0.64000 BB	0.07526						
		0.000000 00	1.290000 00	-2.500000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.770000 00	-1.700000-01	1.020000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	1.980000 00	-3.500000-01	8.200000-01	3.100000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.080000 00	7.000000-02	1.500000 00	8.200000-01	2.100000-01	0.000000 00	0.000000 00
		0.000000 00	2.250000 00	6.200000-01	1.800000 00	8.300000-01	3.000000-01	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	9.300000-01	1.630000 00	2.100000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	8.200000-01	1.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	1.070000 00	1.530000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	1.059999 00	1.280000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	2.700000-01	1.090000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	2.700000-01	1.590000 00	2.000000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.350000 00	2.700000-01	1.590000 00	4.900000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.420000 00	2.800000-01	1.590000 00	4.900000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.500000 00	3.000000-01	1.640000 00	4.900000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.630100 00	3.000000-01	1.680000 00	5.000000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	2.910200 00	3.300000-01	1.780000 00	5.200000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.320300 00	3.800000-01	1.980000 00	5.500000-01	0.000000 00	0.000000 00	0.000000 00
		0.000000 00	3.600400 00	3.600000 00	2.940000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00
									OCT 04 58

	0.64000 BB	0.10474						
Be 9	0.000000 00	8.420000-01	-1.800000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	1.275000 00	7.340000-01	8.180000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	2.380000 00	1.173000 00	5.090000-01	3.500000-01	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	3.310000 00	2.397000 00	1.207000 00	1.200000-01	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	3.940000 00	3.306000 00	9.130000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.180000 00	4.525000 00	6.340000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.280000 00	4.600000 00	6.550000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.370000 00	4.540000 00	6.800000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.420000 00	4.590000 00	8.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.239900 00	8.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.239700 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.239600 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.239300 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.238800 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.238100 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.234800 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.460000 00	4.231600 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.569000 00	5.560000 00	1.220000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
								OCT 04 58
	0.64000 BB	0.10736						
B 5	0.000000 00	1.520000 00	8.100000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	1.790000 00	1.310000 00	6.700000-01	0.000000 00	0.000000 00	0.000000 00	1.000000 07
	0.000000 00	2.140000 00	1.220000 00	4.200000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	2.270000 00	1.690000 00	8.800000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	3.160000 00	2.510000 00	5.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.080000 00	3.110000 00	3.800000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.970000 00	3.100000 00	3.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	7.000000 00	3.200000 00	3.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	1.300000 01	3.200000 00	3.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	2.350000 01	2.900000 00	3.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	3.650000 01	2.900000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	5.450000 01	2.900000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	9.350000 01	2.900000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	1.495000 02	2.900000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	2.425000 02	2.900000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	3.985000 02	2.900000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	6.377000 02	2.900000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	6.415000 02	3.500000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
								OCT 04 58
C 12	0.64000 BB	0.11200						
	0.000000 00	1.230000 00	7.150000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	1.420000 00	1.105999 00	5.150000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	2.260000 00	1.404000 00	3.140000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	2.930000 00	2.326000 00	8.560000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	3.590000 00	3.157000 00	6.040000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.250000 00	3.849000 00	4.330000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.440000 00	4.010000 00	4.010000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.340000 00	3.970000 00	4.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.340000 00	3.970000 00	3.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.340000 00	3.610000 00	3.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.340000 00	3.610000 00	7.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.340000 00	3.610000 00	7.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.340000 00	3.610000 00	7.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.340000 00	3.610000 00	7.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.440000 00	3.690000 00	7.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.440000 00	3.690000 00	7.500000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.441000 00	3.690000 00	7.500000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
	0.000000 00	4.532700 00	4.530000 00	7.500000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00

AL 13

0.64000 BB 0.07077

0.000000 00	1.928900 00	1.121110 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.322350 00	1.686400 00	6.419200-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.344380 00	1.766560 00	3.796200-01	1.204200-01	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.896700 00	2.632000 00	3.953000-01	2.200300-01	2.955000-02	0.000000 00	0.000000 00
0.000000 00	3.521000 00	3.331000 00	2.640000-01	1.702400-01	3.419000-02	0.000000 00	0.000000 00
0.000000 00	2.926000 00	2.798000 00	1.880000-01	1.000000-07	1.190000-02	1.760000-03	0.000000 00
0.000000 00	1.463000 00	1.398000 00	1.230000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.410000 00	1.360000 00	6.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.410000 00	1.360000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.460000 00	1.360000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.470000 00	1.360000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.490000 00	1.370000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.510000 00	1.380000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.550000 00	1.410000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.550000 00	1.380000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.570000 00	1.360000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.640000 00	1.360000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.540000 00	1.360000 00	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00

OCT 04 58

N 7

0.64000 BB 0.07264

0.000000 00	1.200000 00	8.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.700000 00	1.500000 00	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.400000 00	1.500000 00	2.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.200000 00	1.700000 00	9.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.400000 00	3.100000 00	5.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	5.000000 00	4.800000 00	3.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.000000 00	6.000000 00	2.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.011000 01	8.500000 00	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.022000 01	9.500000 00	6.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.145000 01	1.000000 01	7.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.148000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.153000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.163000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.176000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.200000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.240000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.300000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.150000 01	1.000000 01	1.400000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00

OCT 04 58

O 16

0.64000 BB 0.07526

0.000000 00	1.330000 00	8.660000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.179999 00	9.890000-01	4.240000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.230000 00	2.328000 00	1.910000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.630000 00	3.074000 00	9.020000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.710000 00	3.373000 00	5.560000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.260000 00	3.029000 00	3.370000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.550000 00	3.295000 00	2.310000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.410000 00	2.550000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.410000 00	2.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	2.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.640000 00	3.180000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.641200 00	3.641000 00	4.600000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00

OCT 04 58

OCT 04 58

Fe 26

0.64000 BB	0.10232						
0.000000 00	1.713000 00	5.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.322000 00	1.500000 00	1.210000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.610000 00	1.899000 00	4.770000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.764000 00	2.641000 00	3.350000-01	3.220000-01	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.816000 00	2.744000 00	1.230000-01	3.460000-01	2.300000-02	0.000000 00	0.000000 00
0.000000 00	4.377000 00	4.286000 00	7.100000-02	0.000000 00	3.000000-02	0.000000 00	0.000000 00
0.000000 00	5.939000 00	5.783000 00	8.900000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.110000 00	6.799000 00	1.510000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.123000 01	1.100000 01	3.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.147000 01	1.120000 01	2.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.151000 01	1.100000 01	2.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.156999 01	1.100000 01	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.170000 01	1.100000 01	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.189000 01	1.100000 01	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.220000 01	1.100000 01	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.274000 01	1.100000 01	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.353000 01	1.100000 01	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.294000 01	1.080000 01	4.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00

OCT 04 58

Zr 40

0.64000 BB	0.10474						
0.000000 00	3.330000 00	2.467000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	5.110000 00	4.552000 00	8.170000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	5.790000 00	5.310000 00	3.510000-01	3.300000-02	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.540000 00	8.310000 00	2.860000-01	2.000000-01	1.300000-02	0.000000 00	0.000000 00
0.000000 00	8.840000 00	8.700000 00	2.300000-01	1.760000-01	7.000000-03	0.000000 00	0.000000 00
0.000000 00	8.740000 00	8.633000 00	1.400000-01	0.000000 00	1.800000-02	0.000000 00	0.000000 00
0.000000 00	7.640000 00	7.544000 00	1.069999-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.550000 00	6.480000 00	9.600000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.350000 00	6.280000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.150000 00	6.010000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.150000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.160000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.170000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.180000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.210000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.240000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.300000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.160000 00	6.010000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00

OCT 15 58

U233

0.64000 BB	0.06230						
5.285000 00	4.250000 00	1.179999 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.941000 00	4.500000 00	1.510000 00	2.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.933000 00	4.800000 00	1.990000 00	1.800000-01	2.700000-01	0.000000 00	0.000000 00	0.000000 00
4.986000 00	5.700000 00	3.270000 00	4.500000-01	5.000000-01	4.500000-01	0.000000 00	0.000000 00
5.667000 00	8.400000 00	5.880000 00	2.900000-01	3.000000-01	3.500000-01	3.100000-01	0.000000 00
8.107000 00	1.200000 01	8.170000 00	5.000000-02	5.000000-02	6.000000-02	5.000000-02	4.000000-02
1.500000 01	3.000000 01	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
2.250000 01	4.200000 01	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
6.000000 01	9.500000 01	4.500000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.330000 02	6.700000 01	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
2.550000 02	1.290000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
2.250000 02	1.200000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
7.250000 02	3.540000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.300000 02	1.710000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.560000 02	2.104000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
7.060000 02	3.200000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.104000 03	4.950000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.187000 03	5.300000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

U^{235}

0.64000 BB 0.07027 OCT 04 58

3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.463000 02	1.035700 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.180000 02	1.215000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.920000 01	5.704000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
6.040000 01	4.255000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.509000 02	8.310000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.365000 02	1.750000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.311000 02	2.638000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.161000 03	5.562000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.230000 03	6.075000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

U^{235} 1 mil

0.64000 BB 0.07264 OCT 04 58

3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.384000 02	9.675000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.293000 02	1.011000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.780000 01	5.480000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
6.030000 01	1.112000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.501000 02	8.230000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.680000 02	2.357000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
6.248000 02	3.058000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.031000 03	5.006000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.043200 03	5.049000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

U^{235} 2 mil

0.64000 BB 0.07526 OCT 04 58

3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.314000 02	8.330000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.197000 02	1.016000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.600000 01	5.320000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.930000 01	1.094000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.468000 02	7.960000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.425000 02	2.234000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.850000 02	2.871000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
9.420000 02	4.581000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
9.440000 02	4.578000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

U^{235} 4 mil

0.64000 BB	0.10232						
3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.207999 02	8.560000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.063000 02	9.120000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.320000 01	5.080000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.750000 01	1.064000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.413000 02	7.710000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.060000 02	2.058000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.295000 02	2.608000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
8.140000 02	3.972000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
8.044000 02	3.917000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

U^{235} 10 mil

0.64000 BB	0.10474						
3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.003999 02	7.270000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
8.370000 01	7.341000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.730000 01	4.580000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.350000 01	9.950000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.287000 02	7.100000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.302000 02	1.692000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.175000 02	2.077000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.765000 02	2.842000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.630000 02	2.772000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

U^{238}

0.64000 BB	0.10736						
1.725000 00	4.000000 00	1.254000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.213000 00	4.400000 00	1.825000 00	3.300000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.079999-01	4.500000 00	2.906000 00	3.500000-01	4.600000-01	0.000000 00	0.000000 00	0.000000 00
0.000000 00	5.250000 00	4.530000 00	8.000000-01	9.600000-01	7.900000-01	0.000000 00	0.000000 00
0.000000 00	8.200000 00	7.960000 00	5.000000-01	5.500000-01	6.400000-01	5.300000-01	0.000000 00
0.000000 00	1.200000 01	1.145000 01	8.000000-02	8.000000-02	1.000000-01	9.000000-02	7.000000-02
0.000000 00	1.400000 01	1.325000 01	1.000000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.500000 01	1.295000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.200000 01	1.096000 01	4.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	5.900000 01	8.960000 00	4.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.500000 01	8.930000 00	4.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.190000 02	8.930000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	9.400000 00	9.000000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	9.500000 00	8.910000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.000000 01	9.060000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.000000 01	8.500000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.137000 01	9.000000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.144000 01	9.000000 00	7.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

H

DB^2

0.64000 BB 0.07072 OCT 04 58

0.000000 00	1.599000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.787000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.600000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.250000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	5.320000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	3.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.720000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.710000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.710000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.370000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.370000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.370000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.370000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.370000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.370000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.526999-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.370000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	9.230000-03	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00

D

DB^2

0.64000 BB 0.07264 OCT 04 58

0.000000 00	1.750000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.455000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	9.480000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.740000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.300000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.570000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.570000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.570000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.570000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.570000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.570000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.570000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.170000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.090000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.660000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.440000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.730000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.310000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00

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DB^2

0.64000 BB 0.07526 OCT 04 58

0.000000 00	3.960000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.610000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.400000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.007000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	8.460000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.430000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.310000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.150000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	6.100000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	5.980000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00

OCT 04 58

NOV 05 58

$C\text{-}DB^2$

0.64000 BB	0.10376						
0.000000 00	2.710000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	2.350000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.474000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	1.138000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	9.010000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.840000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.500000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.680000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.500000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.500000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.500000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
0.000000 00	7.350000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00

NOV 05 58

U^{235}

T=.05

0.64000 BB	0.10640						
3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.465000 02	1.036700 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.416000 02	1.206000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.880000 01	5.662000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
6.028000 01	4.243000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.510100 02	8.317000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.365000 02	1.750000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.311000 02	2.638000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.161000 03	5.562000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.425900 03	7.040000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

NOV 05 58

U^{235}

T=.10

0.64000 BB	0.11102						
3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.452300 02	1.028399 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.405000 02	1.194500 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.845000 01	5.615000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
6.014000 01	4.233000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.512599 02	8.332000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.365000 02	1.750000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.311000 02	2.638000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.161000 03	5.562000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.425900 03	7.040000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

U^{235} 0.64000 BB 0.11344

T=.20

3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.457000 02	1.032300 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.395000 02	1.184500 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.764000 01	5.545000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
6.000000 01	4.227000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.517800 02	8.360000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.365000 02	1.750000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.311000 02	2.638000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.161000 03	5.562000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.425900 03	7.040000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

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U^{235} 0.64000 BB 0.11606

T=.50

3.557000 00	4.250000 00	1.200000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.196000 00	4.500000 00	1.770000 00	2.700000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.087000 00	4.650000 00	2.300000 00	2.400000-01	3.700000-01	0.000000 00	0.000000 00	0.000000 00
2.988000 00	5.200000 00	3.420000 00	5.500000-01	6.700000-01	6.500000-01	0.000000 00	0.000000 00
3.518000 00	7.900000 00	6.160000 00	3.500000-01	4.000000-01	4.500000-01	4.400000-01	0.000000 00
6.125000 00	1.240000 01	9.200000 00	8.000000-02	8.000000-02	7.000000-02	7.000000-02	6.000000-02
1.029000 01	1.510000 01	9.550000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.936000 01	2.110000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
4.287000 01	3.550000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.432000 02	1.017100 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.384000 02	1.176800 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.696000 01	5.587000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.998000 01	4.223000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.530500 02	8.431000 01	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
3.365000 02	1.750000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
5.311000 02	2.638000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.161000 03	5.562000 02	9.950000 00	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00
1.425900 03	7.040000 02	1.000000 01	5.000000-02	0.000000 00	0.000000 00	0.000000 00	0.000000 00

H
T=.0561 eV

$\nu\sigma_f/\sigma_{gg}+2$	$\sigma_{tr}/\sigma_{gg}+3$	$\sigma_{gg-4}/\sigma_{gg+4}$	σ_{gg-3}	σ_{gg-2}	σ_{gg-1}	σ_{gg}	σ_{gg+1}
0.640000 BR	0.03723						
0.000000 00	1.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.700000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	2.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	5.200000-01	5.300000-01
0.60000 STZ	0.00001						
0.000000 00	2.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.100000-01	5.300000-01
1.700000-01	0.000000 00	0.000000 00					
0.000000 00	3.520000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.000000 00	1.200000 00
5.300000-01	1.700000-01	0.000000 00					
0.000000 00	4.410000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.170000 00	1.890000 00
7.200000-01	3.200000-01	1.300000-01					
0.000000 00	6.920000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.060000 00	2.690000 00
5.200000-01	2.000000-01	1.000000-01					
0.000000 00	1.047000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.250000 00	3.910000 00
4.500000-01	9.000000-02	4.000000-02					
0.000000 00	1.047200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	5.390000 00
8.300000-01	9.000000-02	2.000000-02					
0.000000 00	1.047400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	4.990000 00
7.300000-01	1.100000-01	1.000000-02					
0.000000 00	1.223900 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	3.650000 00
4.900000-01	7.000000-02	1.000000-02					
0.000000 00	1.223400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.330000 00
1.340000 00	1.800000-01	3.000000-02					
0.000000 00	1.224200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	4.900000-01	7.000000-02					
0.000000 00	1.226000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	7.200000-01	2.500000-01					
0.000000 00	1.228400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	7.296250 00	0.003701 00	1.313445 00	9.747319-01	1.513125 00	3.997073 00	5.320000 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	8.735536 00	0.000000 00	0.000000 00	6.046425 00	4.487142 00	4.607001 00	2.292632 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	1.125851 01	0.000000 00	0.000000 00	0.000000 00	5.415353 00	3.519690 00	1.634255 00
6.014763-01	7.200000-01	3.700000-01					
0.000000 00	1.929731 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.242088 00	2.016947 00
8.071546-01	2.970676-01	3.700000-01					

H
T=.1523 eV

0.640000 88	0.04041						
0.000000 00	1.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.700000-01	0.000000 00
0.600000 ST7	0.00001						
0.000000 00	2.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	5.200000-01	5.300000-01
0.600000 ST7	0.00001						
0.000000 00	2.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.100000-01	5.300000-01
1.700000-01	0.000000 00	0.000000 00					
0.000000 00	3.520000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.000000 00	1.200000 00
5.300000-01	1.700000-01	0.000000 00					
0.000000 00	4.410000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.170000 00	1.890000 00
7.200000-01	3.200000-01	1.300000-01					
0.000000 00	6.920000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.060000 00	2.690000 00
5.200000-01	2.000000-01	1.000000-01					
0.000000 00	1.047000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.250000 00	3.910000 00
4.500000-01	9.000000-02	4.000000-02					
0.000000 00	1.047200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	5.390000 00
8.300000-01	9.000000-02	2.000000-02					
0.000000 00	1.047400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	4.990000 00
7.300000-01	1.100000-01	1.000000-02					
0.000000 00	1.223900 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	3.650000 00
4.900000-01	7.000000-02	1.000000-02					
0.000000 00	1.223400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.330000 00
1.340000 00	1.800000-01	3.000000-02					
0.000000 00	1.224200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	4.900000-01	7.000000-02					
0.000000 00	1.226000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	7.200000-01	2.500000-01					
0.000000 00	7.250541 00	2.016809 00	1.160931 00	9.772300-01	1.510787 00	3.995034 00	5.320000 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	8.668168 00	0.000000 00	9.308769 00	5.358375 00	4.510486 00	4.608950 00	2.293599 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	1.145716 01	0.000000 00	0.000000 00	9.994796 00	5.753239 00	4.144159 00	1.832686 00
6.743004-01	7.200000-01	3.700000-01					
0.000000 00	1.637289 01	0.000000 00	0.000000 00	0.000000 00	4.798275 00	2.549744 00	1.134807 00
4.176578-01	1.536688-01	3.700000-01					
0.000000 00	3.057571 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.177063 00	1.290599 00
5.164804-01	1.900870-01	6.993873-02					

H
T=.194 eV

0.64000 BB	0.04041						
0.000000 00	1.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.700000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	2.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	5.200000-01	5.300000-01
0.60000 STZ	0.00001						
0.000000 00	2.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.100000-01	5.300000-01
1.700000-01	0.000000 00	0.000000 00					
0.000000 00	3.520000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.000000 00	1.200000 00
5.300000-01	1.700000-01	0.000000 00					
0.000000 00	4.410000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.170000 00	1.890000 00
7.200000-01	3.200000-01	1.300000-01					
0.000000 00	6.920000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.060000 00	2.690000 00
5.200000-01	2.000000-01	1.000000-01					
0.000000 00	1.047000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.250000 00	3.910000 00
4.500000-01	9.000000-02	4.000000-02					
0.000000 00	1.047200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	5.390000 00
8.300000-01	9.000000-02	2.000000-02					
0.000000 00	1.047400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	4.990000 00
7.300000-01	1.100000-01	1.000000-02					
0.000000 00	1.223900 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	3.650000 00
4.900000-01	7.000000-02	1.000000-02					
0.000000 00	1.223400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.330000 00

1.340000 00	1.800000-01	3.000000-02					
0.000000 00	1.224200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	4.900000-01	7.000000-02					
0.000000 00	1.226000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	7.200000-01	2.500000-01					
0.000000 00	7.288882 00	3.980947 00	2.222586 00	1.750583 00	2.147523 00	4.191865 00	5.320000 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	9.103944 00	0.000000 00	1.165548 01	6.507327 00	5.125389 00	4.608463 00	2.208869 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	1.242705 01	0.000000 00	0.000000 00	1.011035 01	5.644638 00	3.892209 00	1.693461 00
6.230753-01	7.200000-01	3.700000-01					
0.000000 00	1.809931 01	0.000000 00	0.000000 00	0.000000 00	4.462895 00	2.313246 00	1.024052 00
3.768952-01	1.386711-01	3.700000-01					
0.000000 00	3.423833 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.748654 00	1.151513 00
4.608199-01	1.696015-01	6.240152-02					

H
T=.280 eV

0.64000 88	0.04177						
0.000000 00	1.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.700000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	2.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	5.200000-01	5.300000-01
0.60000 STZ	0.00001						
0.000000 00	2.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.100000-01	5.300000-01
1.700000-01	0.000000 00	0.000000 00					
0.000000 00	3.520000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.000000 00	1.200000 00
5.300000-01	1.700000-01	0.000000 00					
0.000000 00	4.410000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.170000 00	1.890000 00
7.200000-01	3.200000-01	1.300000-01					
0.000000 00	6.920000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.060000 00	2.690000 00
5.200000-01	2.000000-01	1.000000-01					
0.000000 00	1.047000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.250000 00	3.910000 00
4.500000-01	9.000000-02	4.000000-02					
0.000000 00	1.047200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	5.390000 00
8.300000-01	9.000000-02	2.000000-02					
0.000000 00	1.047400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	4.990000 00
7.300000-01	1.100000-01	1.000000-02					
0.000000 00	1.223900 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	3.650000 00
4.900000-01	7.000000-02	1.000000-02					
0.000000 00	1.223400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.330000 00

1.340000 00	1.800000-01	3.000000-02					
0.000000 00	1.224200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	4.900000-01	7.000000-02					
0.000000 00	7.109331 00	3.982891-01	2.919567-01	2.817150-01	7.700557-01	3.666541 00	5.320000 00
1.960000 00	7.200000-01	2.500000-01					
0.000000 00	8.038754 00	9.362042 00	4.654069 00	3.411559 00	3.291883 00	4.445612 00	2.386916 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	1.008792 01	0.000000 00	1.448108 01	7.814942 00	5.728566 00	4.462519 00	2.043902 00
7.525485-01	7.200000-01	3.700000-01					
0.000000 00	1.433122 01	0.000000 00	0.000000 00	9.783606 00	5.279855 00	3.468057 00	1.481143 00
5.449567-01	2.006487-01	3.700000-01					
0.000000 00	2.135143 01	0.000000 00	0.000000 00	0.000000 00	3.924075 00	1.978146 00	8.704564-01
3.203654-01	1.178719-01	6.267638-02					
0.000000 00	4.099679 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.165986 00	9.661317-01
3.866326-01	1.422974-01	5.235547-02					

H
T=.414 eV

0.64000 88	0.04177						
0.000000 00	1.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.700000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	2.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	5.200000-01	5.300000-01
0.60000 STZ	0.00001						
0.000000 00	2.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.100000-01	5.300000-01
1.700000-01	0.000000 00	0.000000 00					
0.000000 00	3.520000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.000000 00	1.200000 00
5.300000-01	1.700000-01	0.000000 00					
0.000000 00	4.410000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.170000 00	1.890000 00
7.200000-01	3.200000-01	1.300000-01					
0.000000 00	6.920000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.060000 00	2.690000 00
5.200000-01	2.000000-01	1.000000-01					
0.000000 00	1.047000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.250000 00	3.910000 00
4.500000-01	9.000000-02	4.000000-02					
0.000000 00	1.047200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	5.390000 00
8.300000-01	9.000000-02	2.000000-02					
0.000000 00	1.047400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	4.990000 00
7.300000-01	1.100000-01	1.000000-02					
0.000000 00	1.223900 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	3.650000 00
4.900000-01	7.000000-02	1.000000-02					
0.000000 00	1.223400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.330000 00
1.940000 00	1.800000-01	3.000000-02					
0.000000 00	1.224200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	4.900000-01	7.000000-02					
0.000000 00	7.204061 00	1.708582 00	1.190538 00	9.768872-01	1.510163 00	3.971232 00	5.320000 00
1.960000 00	7.200000-01	2.500000-01					
0.000000 00	8.615681 00	1.822127 01	7.885960 00	5.494928 00	4.508821 00	4.600992 00	2.294246 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	1.139027 01	0.000000 00	1.609625 01	8.475600 00	5.905788 00	4.146332 00	1.833357 00
6.750274-01	7.200000-01	3.700000-01					
0.000000 00	1.681495 01	0.000000 00	0.000000 00	8.992858 00	4.735251 00	3.002856 00	1.264946 00
4.654115-01	1.713608-01	3.700000-01					
0.000000 00	2.552403 01	0.000000 00	0.000000 00	0.000000 00	3.359368 00	1.659506 00	7.270398-01
2.675819-01	9.845136-02	5.219390-02					
0.000000 00	4.958126 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.631507 00	7.991377-01
3.198039-01	1.177016-01	4.330593-02					

H
T=.536 eV

0.640000 00	0.04177						
0.000000 00	1.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.700000-01	0.000000 00
0.600000 ST7	0.00001						
0.000000 00	2.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	5.200000-01	5.300000-01
0.600000 ST7	0.00001						
0.000000 00	2.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.100000-01	5.300000-01
1.700000-01	0.000000 00	0.000000 00					
0.000000 00	3.520000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.000000 00	1.200000 00
5.300000-01	1.700000-01	0.000000 00					
0.000000 00	4.410000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.170000 00	1.890000 00
7.200000-01	3.200000-01	1.300000-01					
0.000000 00	6.920000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.060000 00	2.690000 00
5.200000-01	2.000000-01	1.000000-01					
0.000000 00	1.047000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.250000 00	3.910000 00
4.500000-01	9.000000-02	4.000000-02					
0.000000 00	1.047200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	5.390000 00
8.300000-01	9.000000-02	2.000000-02					
0.000000 00	1.047400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	4.990000 00
7.300000-01	1.100000-01	1.000000-02					
0.000000 00	1.223900 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	3.650000 00
4.900000-01	7.000000-02	1.000000-02					
0.000000 00	1.223400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.330000 00

1.340000 00	1.800000-01	3.000000-02					
0.000000 00	1.224200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	5.320000 00
1.960000 00	4.900000-01	7.000000-02					
0.000000 00	7.247145 00	3.492118 00	2.376600 00	1.812602 00	2.193990 00	4.184397 00	5.320000 00
1.960000 00	7.200000-01	2.500000-01					
0.000000 00	9.083452 00	2.580851 01	9.940933 00	6.765412 00	5.159893 00	4.598995 00	2.202979 00
1.960000 00	7.200000-01	3.700000-01					
0.000000 00	1.242959 01	0.000000 00	1.636835 01	8.519539 00	5.798066 00	3.876069 00	1.684497 00
6.202183-01	7.200000-01	3.700000-01					
0.000000 00	1.874557 01	0.000000 00	0.000000 00	8.335575 00	4.338573 00	2.705946 00	1.132387 00
4.166391-01	1.534031-01	3.700000-01					
0.000000 00	2.872780 01	0.000000 00	0.000000 00	0.000000 00	3.009292 00	1.472396 00	6.437178-01
2.369158-01	8.716841-02	4.614615-02					
0.000000 00	5.612605 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.324316 00	7.042403-01
2.818272-01	1.037245-01	3.816336-02					

H
T=1.126 eV

0.64000 BR 0.04355
0.000000 00 1.370000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.700000-01 0.000000 00
0.60000 STZ 0.00001
0.000000 00 2.000000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 5.200000-01 5.300000-01
0.60000 STZ 0.00001
0.000000 00 2.770000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 6.100000-01 5.300000-01
1.700000-01 0.000000 00 0.000000 00
0.000000 00 3.520000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.000000 00 1.200000 00
5.300000-01 1.700000-01 0.000000 00
0.000000 00 4.410000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.170000 00 1.890000 00
7.200000-01 3.200000-01 1.300000-01
0.000000 00 6.920000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.060000 00 2.690000 00
5.200000-01 2.000000-01 1.000000-01
0.000000 00 1.047000 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.250000 00 3.910000 00
4.500000-01 9.000000-02 4.000000-02
0.000000 00 1.047200 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.740000 00 5.390000 00
8.300000-01 9.000000-02 2.000000-02
0.000000 00 1.047400 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.740000 00 4.990000 00
7.300000-01 1.100000-01 1.000000-02
0.000000 00 1.223900 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.850000 00 3.650000 00
4.900000-01 7.000000-02 1.000000-02
0.000000 00 1.223400 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.850000 00 5.330000 00

1.340000 00 1.800000-01 3.000000-02
0.000000 00 7.210055 00 1.783984 00 1.202363 00 9.859866-01 1.518258 00 4.006500 00 5.320000 00
1.960000 00 4.900000-01 7.000000-02
0.000000 00 8.589831 00 1.521364 01 8.153129 00 5.495019 00 4.506136 00 4.591183 00 2.284138 00
1.960000 00 7.200000-01 2.500000-01
0.000000 00 1.134638 01 5.614087 01 1.341196 01 8.760310 00 5.904245 00 4.140934 00 1.833119 00
6.741026-01 7.200000-01 3.700000-01
0.000000 00 1.675799 01 0.000000 00 1.470002 01 7.495397 00 4.895777 00 3.002925 00 1.264680 00
4.656451-01 1.712341-01 3.700000-01
0.000000 00 2.636605 01 0.000000 00 0.000000 00 6.325711 00 3.225417 00 1.953450 00 8.079083-01
2.972535-01 1.094463-01 5.208058-02
0.000000 00 4.112784 01 0.000000 00 0.000000 00 0.000000 00 2.148028 00 1.033210 00 4.500324-01
1.656313-01 6.094069-02 3.217881-02
0.000000 00 8.121263 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.617988 00 4.882033-01
1.953722-01 7.190540-02 2.645613-02

H
T=3.06 eV

0.640000 BB	0.04553						
0.000000 00	1.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.700000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	2.000000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	5.200000-01	5.300000-01
0.60000 STZ	0.00001						
0.000000 00	2.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.100000-01	5.300000-01
1.700000-01	0.000000 00	0.000000 00					
0.000000 00	3.520000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.000000 00	1.200000 00
5.300000-01	1.700000-01	0.000000 00					
0.000000 00	4.410000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.170000 00	1.890000 00
7.200000-01	3.200000-01	1.300000-01					
0.000000 00	6.920000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.060000 00	2.690000 00
5.200000-01	2.000000-01	1.000000-01					
0.000000 00	1.047000 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.250000 00	3.910000 00
4.500000-01	9.000000-02	4.000000-02					
0.000000 00	1.047200 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	5.390000 00
8.300000-01	9.000000-02	2.000000-02					
0.000000 00	1.047400 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.740000 00	4.990000 00
7.300000-01	1.100000-01	1.000000-02					
0.000000 00	1.223900 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.850000 00	3.650000 00
4.900000-01	7.000000-02	1.000000-02					
0.000000 00	7.200561 00	1.763658 00	1.188424 00	9.739317-01	1.507161 00	3.991374 00	5.330000 00
1.340000 00	1.800000-01	3.000000-02					
0.000000 00	8.581504 00	1.580316 01	8.194129 00	5.521536 00	4.524982 00	4.620738 00	2.300896 00
1.960000 00	4.900000-01	7.000000-02					
0.000000 00	1.131840 01	4.649008 01	1.386989 01	8.739607 00	5.889101 00	4.129551 00	1.824863 00
6.711441-01	7.200000-01	2.500000-01					
0.000000 00	1.670903 01	1.164079 02	1.217031 01	7.767906 00	4.894661 00	3.000512 00	1.265012 00
4.651897-01	1.710864-01	3.700000-01					
0.000000 00	2.629946 01	0.000000 00	1.040103 01	5.241334 00	3.345368 00	1.954492 00	8.081704-01
2.975619-01	1.094240-01	5.205964-02					
0.000000 00	4.257132 01	0.000000 00	0.000000 00	4.054888 00	2.043348 00	1.216995 00	4.999182-01
1.839348-01	6.772333-02	3.212787-02					
0.000000 00	6.713509 01	0.000000 00	0.000000 00	0.000000 00	1.328969 00	6.330075-01	2.751294-01
1.012594-01	3.725637-02	1.964352-02					
0.000000 00	1.334595 02	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.867144-01	2.970045-01
1.188571-01	4.374455-02	1.609492-02					

H
T=8.32 eV

0.64000 BB 0.04771
0.000000 00 1.370000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.700000-01 0.000000 00
0.60000 STZ 0.00001
0.000000 00 2.000000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 5.200000-01 5.300000-01
0.60000 STZ 0.00001
0.000000 00 2.770000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 6.100000-01 5.300000-01
1.700000-01 0.000000 00 0.000000 00
0.000000 00 3.520000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.000000 00 1.200000 00
5.300000-01 1.700000-01 0.000000 00
0.000000 00 4.410000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.170000 00 1.890000 00
7.200000-01 3.200000-01 1.300000-01
0.000000 00 6.920000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.060000 00 2.690000 00
5.200000-01 2.000000-01 1.000000-01
0.000000 00 1.047000 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.250000 00 3.910000 00
4.500000-01 9.000000-02 4.000000-02
0.000000 00 1.047200 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.740000 00 5.390000 00
8.300000-01 9.000000-02 2.000000-02
0.000000 00 1.047400 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.740000 00 4.990000 00
7.300000-01 1.100000-01 1.000000-02
0.000000 00 7.193977 00 1.774421 00 1.195432 00 9.808056-01 1.514506 00 3.996240 00 3.650000 00
4.900000-01 7.000000-02 1.000000-02
0.000000 00 8.574162 00 1.575093 01 8.148198 00 5.489464 00 4.503891 00 4.602610 00 2.289612 00
1.340000 00 1.800000-01 3.000000-02
0.000000 00 1.130714 01 4.830077 01 1.395907 01 8.793801 00 5.924408 00 4.157168 00 1.838685 00
6.766993-01 4.900000-01 7.000000-02

0.000000 00 1.668545 01 9.620498 01 1.258948 01 7.743848 00 4.878393 00 2.990590 00 1.258788 00
4.629543-01 1.703830-01 2.500000-01
0.000000 00 2.625610 01 2.088624 02 8.588967 00 5.436147 00 3.343797 00 1.952539 00 8.081666-01
2.971914-01 1.093004-01 5.204243-02
0.000000 00 4.251654 01 0.000000 00 6.678751 00 3.351006 00 2.120925 00 1.217315 00 4.999419-01
1.840746-01 6.769074-02 3.210609-02
0.000000 00 6.960624 01 0.000000 00 0.000000 00 2.509771 00 1.259262 00 7.454111-01 3.054343-01
1.123783-01 4.137681-02 1.960679-02
0.000000 00 1.102298 02 0.000000 00 0.000000 00 0.000000 00 8.118595-01 3.853045-01 1.673366-01
6.158708-02 2.265972-02 1.194085-02
0.000000 00 2.197424 02 0.000000 00 0.000000 00 0.000000 00 0.000000 00 5.995831-01 1.803139-01
7.215888-02 2.655757-02 9.771322-03

D 2
T =.0561 eV

0.64000 00	0.03723						
0.000000 00	1.790000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 STZ	0.00001						
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	8.200000-01
3.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
8.200000-01	2.100000-01	0.000000 00					
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.200000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.280000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.090000 00
0.60000 STZ	0.00001						

0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.800000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.500000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.000000-01	1.640000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.316897 00	0.003701 00	2.478319-01	2.344717-01	4.776501-01	1.442419 00	1.680000 00
5.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.597002 00	0.000000 00	0.000000 00	1.427169 00	1.258349 00	1.466735 00	6.857375-01
5.200000-01	0.000000 00	0.000000 00					
0.000000 00	3.066286 00	0.000000 00	0.000000 00	0.000000 00	1.414694 00	1.029019 00	4.563360-01
1.349831-01	0.000000 00	0.000000 00					
0.000000 00	4.782123 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.692027 00	5.441459-01
1.960803-01	5.365687-02	0.000000 00					

D 2

T=.1523 eV

0.64000 BR	0.04041						
0.000000 00	1.290000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 STZ	0.00001						
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	8.200000-01
3.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
8.200000-01	2.100000-01	0.000000 00					
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.-00000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.280000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.090000 00
~~0.60000 STZ~~	~~0.00001~~						

33

0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.800000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.316420 00	3.588327-01	2.309946-01	2.314541-01	4.769670-01	1.441799 00	1.640000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.596595 00	0.000000 00	2.108943 00	1.313901 00	1.251001 00	1.467422 00	6.860671-01
5.000000-01	0.000000 00	0.000000 00					
0.000000 00	3.124439 00	0.000000 00	0.000000 00	2.541168 00	1.558220 00	1.199549 00	5.069548-01
1.491392-01	0.000000 00	0.000000 00					
0.000000 00	4.162305 00	0.000000 00	0.000000 00	0.000000 00	1.277715 00	7.104993-01	3.087912-01
1.017970-01	2.787794-02	0.000000 00					
0.000000 00	7.417107 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.130048 00	3.483885-01
1.334431-01	4.335376-02	1.143656-02					

D 2
T=.194 eV

0.64000 RB	0.04041							
0.000000 00	1.290000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 STZ	0.00001							
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 STZ	0.00001							
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	8.200000-01
3.100000-01	0.000000 00	0.000000 00						
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
8.200000-01	2.100000-01	0.000000 00						
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.200000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 STZ	0.00001							
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 STZ	0.00001							
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.280000 00
0.60000 STZ	0.00001							
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.090000 00
0.60000 STZ	0.00001							

0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.800000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.295487 00	7.584905-01	4.597529-01	4.140198-01	6.494625-01	1.472687 00	1.640000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.673401 00	0.000000 00	2.726478 00	1.616052 00	1.403172 00	1.425723 00	6.435354-01
5.000000-01	0.000000 00	0.000000 00					
0.000000 00	3.326504 00	0.000000 00	0.000000 00	2.601681 00	1.525868 00	1.110882 00	4.645825-01
1.408904-01	0.000000 00	0.000000 00					
0.000000 00	4.553450 00	0.000000 00	0.000000 00	0.000000 00	1.192051 00	6.405386-01	2.780738-01
9.350585-02	2.699607-02	0.000000 00					
0.000000 00	8.293139 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.014038 00	3.109375-01
1.201560-01	4.002666-02	1.127744-02					

D 2
T= .280 eV

0.64000 BR 0.04177
0.000000 00 1.290000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 -2.500000-01 0.000000 00
0.60000 STZ 0.00001
0.000000 00 1.770000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 -1.700000-01 1.020000 00
0.60000 STZ 0.00001
0.000000 00 1.980000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 -3.500000-01 8.200000-01
3.100000-01 0.000000 00 0.000000 00
0.000000 00 2.080000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 7.000000-02 1.500000 00
8.200000-01 2.100000-01 0.000000 00
0.000000 00 2.250000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 6.200000-01 1.800000 00
8.300000-01 3.000000-01 0.000000 00
0.000000 00 2.350000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 9.300000-01 1.630000 00
2.100000-01 0.000000 00 0.000000 00
0.000000 00 2.350000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 8.200000-01 1.420000 00
0.60000 STZ 0.00001
0.000000 00 2.350000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.070000 00 1.530000 00
0.60000 STZ 0.00001
0.000000 00 2.350000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.059999 00 1.280000 00
0.60000 STZ 0.00001
0.000000 00 2.350000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.700000-01 1.090000 00
0.60000 STZ 0.00001

0.000000 00 2.350000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.700000-01 1.590000 00
2.000000-01 0.000000 00 0.000000 00
0.000000 00 2.350000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.700000-01 1.590000 00
4.900000-01 0.000000 00 0.000000 00
0.000000 00 2.318502 00 6.406959-02 5.360626-02 6.809031-02 2.622983-01 1.365806 00 1.590000 00
4.900000-01 0.000000 00 0.000000 00
0.000000 00 2.492582 00 1.899942 00 1.017281 00 8.148647-01 9.455395-01 1.489379 00 7.511659-01
4.900000-01 0.000000 00 0.000000 00
0.000000 00 2.863930 00 0.000000 00 3.524102 00 1.978079 00 1.551136 00 1.330725 00 5.774540-01
1.619272-01 0.000000 00 0.000000 00
0.000000 00 3.731541 00 0.000000 00 0.000000 00 2.553812 00 1.425549 00 9.739151-01 4.032245-01
1.276535-01 3.145018-02 0.000000 00
0.000000 00 5.290113 00 0.000000 00 0.000000 00 0.000000 00 1.051916 00 5.438459-01 2.359226-01
8.130206-02 2.505903-02 8.152576-03
0.000000 00 9.886468 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 8.562950-01 2.609872-01
1.018957-01 3.494921-02 1.063857-02

D 2
T=.414 eV

0.64000 BR	0.04177						
0.000000 00	1.290000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 STZ	0.00001						
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	8.200000-01
3.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
8.200000-01	2.100000-01	0.000000 00					
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.200000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.290000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.090000 00
0.60000 STZ	0.00001						

0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.307917 00	3.111171-01	2.348513-01	2.313821-01	4.767905-01	1.432805 00	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.593597 00	3.906239 00	1.816085 00	1.339079 00	1.250533 00	1.464565 00	6.864283-01
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	3.124110 00	0.000000 00	4.042882 00	2.183412 00	1.591664 00	1.200162 00	5.071403-01
1.493619-01	0.000000 00	0.000000 00					
0.000000 00	4.280781 00	0.000000 00	0.000000 00	2.373300 00	1.278304 00	8.331672-01	3.429575-01
1.129087-01	3.088060-02	0.000000 00					
0.000000 00	6.259019 00	0.000000 00	0.000000 00	0.000000 00	9.030102-01	4.538479-01	1.969497-01
6.918063-02	2.247167-02	8.440917-03					
0.000000 00	1.193754 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.117127-01	2.159419-01
8.496974-02	2.979501-02	9.620655-03					

D 2

T=.536 eV

0.64000 BB	0.04177						
0.000000 00	1.290000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 STZ	0.00001						
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	8.200000-01
3.130000-01	0.000000 00	0.000000 00					
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
9.200000-01	2.120000-01	0.000000 00					
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.200000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.280000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.090000 00
0.60000 STZ	0.00001						

0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.286276 00	6.793949-01	4.897708-01	4.287882-01	6.617692-01	1.466652 00	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.676292 00	5.692228 00	2.358279 00	1.673724 00	1.411629 00	1.419905 00	6.409242-01
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	3.340915 00	0.000000 00	4.177125 00	2.215903 00	1.561138 00	1.105320 00	4.619117-01
1.405147-01	0.000000 00	0.000000 00					
0.000000 00	4.720690 00	0.000000 00	0.000000 00	2.211804 00	1.171402 00	7.464569-01	3.065958-01
1.031256-01	2.985752-02	0.000000 00					
0.000000 00	7.017287 00	0.000000 00	0.000000 00	0.000000 00	8.100291-01	4.016652-01	1.742242-01
6.183654-02	2.062554-02	8.327618-03					
0.000000 00	1.352021 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.286334-01	1.903423-01
7.517603-02	2.664573-02	8.855458-03					

D 2
T=1.126 eV

0.640000 88	0.04355						
0.000000 00	1.290000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 ST7	0.00001						
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 ST7	0.00001						
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	0.200000-01
3.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
8.200000-01	2.110000-01	0.000000 00					
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.200000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 ST7	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 ST7	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.280000 00
0.60000 ST7	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.000000 00
0.60000 ST7	0.00001						

0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.590000 00
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.316771 00	3.239302-01	2.373531-01	2.336167-01	4.790774-01	1.445584 00	1.590000 00
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	2.592362 00	3.284113 00	1.873245 00	1.339383 00	1.249818 00	1.461078 00	6.829115-01
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	3.123582 00	1.293691 01	3.386262 00	2.252102 00	1.591227 00	1.198348 00	5.071280-01
1.491017-01	0.000000 00	0.000000 00					
0.000000 00	4.282655 00	0.000000 00	3.864141 00	1.987284 00	1.319145 00	8.331514-01	3.429817-01
1.130018-01	3.085209-02	0.000000 00					
0.000000 00	6.476194 00	0.000000 00	0.000000 00	1.695114 00	8.714376-01	5.333360-01	2.194533-01
7.674098-02	2.494450-02	8.421784-03					
0.000000 00	9.941991 00	0.000000 00	0.000000 00	0.000000 00	5.796126-01	2.905952-01	1.217445-01
4.401539-02	1.543053-02	7.131584-03					
0.000000 00	1.951375 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.375684-01	1.319979-01
5.248984-02	1.897110-02	6.645070-03					

D 2
T=3.06 eV

0.64000 BB	0.04553						
0.000000 00	1.290000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 STZ	0.00001						
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	8.200000-01
3.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
8.200000-01	2.100000-01	0.000000 00					
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.200000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.280000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.700000-01	1.090000 00
0.60000 STZ	0.00001						

0.000000 00	2.316283 00	3.198432-01	2.343427-01	2.304845-01	4.757792-01	1.440547 00	1.590000 00
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	2.596134 00	3.408547 00	1.982457 00	1.345715 00	1.254621 00	1.470831 00	6.881769-01
4.900000-01	0.000000 00	0.000000 00					
0.000000 00	3.122009 00	1.073703 01	3.499357 00	2.246996 00	1.587286 00	1.195006 00	5.046105-01
1.483339-01	0.000000 00	0.000000 00					
0.000000 00	4.281325 00	2.755626 01	3.204689 00	2.058020 00	1.318842 00	8.324374-01	3.429992-01
1.128628-01	3.081107-02	0.000000 00					
0.000000 00	6.475961 00	0.000000 00	2.783067 00	1.406852 00	9.032116-01	5.336185-01	2.195241-01
7.682764-02	2.493247-02	8.413905-03					
0.000000 00	1.030612 01	0.000000 00	0.000000 00	1.092875 00	5.524135-01	3.302993-01	1.351737-01
4.885430-02	1.713973-02	7.118139-03					
0.000000 00	1.615307 01	0.000000 00	0.000000 00	0.000000 00	3.591147-01	1.714666-01	7.441751-02
2.720634-02	9.830003-03	4.930212-03					
0.000000 00	3.205856 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.668405-01	9.031990-02
3.206744-02	1.172302-02	4.235186-03					

D 2
T=8.32 eV

0.64000 BB	3.04771						
0.000000 00	1.290000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-2.500000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.770000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.700000-01	1.020000 00
0.60000 STZ	0.00001						
0.000000 00	1.980000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-3.500000-01	8.200000-01
3.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.080000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.000000-02	1.500000 00
8.200000-01	2.100000-01	0.000000 00					
0.000000 00	2.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	6.200000-01	1.800000 00
8.300000-01	3.000000-01	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	9.300000-01	1.630000 00
2.100000-01	0.000000 00	0.000000 00					
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	8.200000-01	1.420000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.070000 00	1.530000 00
0.60000 STZ	0.00001						
0.000000 00	2.350000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.059999 00	1.280000 00
0.60000 STZ	0.00001						
0.000000 00	2.315688 00	3.220058-01	2.358096-01	2.323164-01	4.780687-01	1.442048 00	1.090000 00
0.60000 STZ	0.00001						

40

0.000000 00	2.596337 00	3.395785 00	1.871562 00	1.337468 00	1.249012 00	1.465371 00	6.849359-01
2.000000-01	0.000000 00	0.000000 00					
0.000000 00	3.124427 00	1.115254 01	3.521493 00	2.260684 00	1.596444 00	1.203085 00	5.095906-01
1.496989-01	0.000000 00	0.000000 00					
0.000000 00	4.280865 00	2.279320 01	3.314346 00	2.051758 00	1.314516 00	8.296620-01	3.412366-01
1.122918-01	3.068962-02	0.000000 00					
0.000000 00	6.475998 00	4.993827 01	2.299795 00	1.458764 00	9.027876-01	5.330714-01	2.185303-01
7.672547-02	2.490227-02	8.415559-03					
0.000000 00	1.030868 01	0.000000 00	1.799200 00	9.037675-01	5.732381-01	3.303851-01	1.351801-01
4.689366-02	1.713018-02	7.112829-03					
0.000000 00	1.676571 01	0.000000 00	0.000000 00	6.778365-01	3.405321-01	2.018669-01	8.259959-02
3.018832-02	1.091562-02	4.920617-03					
0.000000 00	2.649063 01	0.000000 00	0.000000 00	0.000000 00	2.194918-01	1.042705-01	4.525996-02
1.661640-02	6.072674-03	3.141369-03					
0.000000 00	5.279735 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.621514-01	4.876672-02
1.949885-02	7.158607-03	2.616162-03					

Be

T=.0561

0.64000 BB	0.03723						
0.000000 00	8.420000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.800000-02	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.275000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.340000-01	8.180000-01
0.60000 STZ	0.00001						
0.000000 00	2.380000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.173000 00	5.090000-01
3.500000-01	0.000000 00	0.000000 00					
0.000000 00	3.310000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.397000 00	1.207000 00
1.200000-01	0.000000 00	0.000000 00					
0.000000 00	3.940000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.306000 00	9.130000-01
0.60000 STZ	0.00001						
0.000000 00	5.180000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.525000 00	6.340000-01
0.60000 STZ	0.00001						
0.000000 00	5.280000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.600000 00	6.550000-01
0.60000 STZ	0.00001						
0.000000 00	5.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.540000 00	6.800000-01
0.60000 STZ	0.00001						
0.000000 00	5.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.590000 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239900 00	8.300000-01

0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239700 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239600 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239300 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.238800 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.428397 00	0.003701 00	1.422766-02	8.064840-02	8.851746-01	4.594793 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.769749 00	0.000000 00	0.000000 00	7.946853-01	2.129632 00	4.010618 00	7.993284-01
0.60000 STZ	0.00001						
0.000000 00	6.029595 00	0.000000 00	0.000000 00	0.000000 00	2.142465 00	2.787453 00	7.347175-01
2.839264-02	0.000000 00	0.000000 00					
0.000000 00	7.045215 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.084837 00	1.023461 00
1.340394-01	2.682511-03	0.000000 00					

Be
T=.1523

0.64000 BB	0.04041						
0.000000 00	8.420000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.900000-02	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.275000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.340000-01	8.180000-01
0.60000 STZ	0.00001						
0.000000 00	2.380000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.173000 00	5.090000-01
3.500000-01	0.000000 00	0.000000 00					
0.000000 00	3.310000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.397000 00	1.207000 00
1.200000-01	0.000000 00	0.000000 00					
0.000000 00	3.940000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.306000 00	9.130000-01
0.60000 STZ	0.00001						
0.000000 00	5.180000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.525000 00	6.340000-01
0.60000 STZ	0.00001						
0.000000 00	5.280000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.600000 00	6.550000-01
0.60000 STZ	0.00001						
0.000000 00	5.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.540000 00	6.800000-01
0.60000 STZ	0.00001						
0.000000 00	5.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.590000 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239900 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239700 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239600 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239300 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.426089 00	8.568595-03	1.833614-02	7.371418-02	8.840588-01	4.593741 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.767062 00	0.000000 00	7.414469-01	9.497174-01	2.010850 00	4.012155 00	7.995021-01
0.60000 STZ	0.00001						
0.000000 00	6.059902 00	0.000000 00	0.000000 00	3.138525 00	3.052370 00	3.152275 00	7.816327-01
2.942894-02	0.000000 00	0.000000 00					
0.000000 00	6.782908 00	0.000000 00	0.000000 00	0.000000 00	2.707241 00	1.939731 00	6.277522-01
6.939539-02	1.311364-03	0.000000 00					
0.000000 00	9.592264 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.987482 00	8.143531-01
1.901102-01	1.662010-02	2.052450-04					

Be
T=.194

0.64000 BB	0.04041						
0.000000 00	8.420000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.800000-02	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.275000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.340000-01	8.180000-01
0.60000 STZ	0.00001						
0.000000 00	2.380000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.173000 00	5.090000-01
3.500000-01	0.000000 00	0.000000 00					
0.000000 00	3.310000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.397000 00	1.207000 00
1.200000-01	0.000000 00	0.000000 00					
0.000000 00	3.940000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.306000 00	9.130000-01
0.60000 STZ	0.00001						
0.000000 00	5.180000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.525000 00	6.340000-01
0.60000 STZ	0.00001						
0.000000 00	5.280000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.600000 00	6.550000-01
0.60000 STZ	0.00001						
0.000000 00	5.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.540000 00	6.800000-01
0.60000 STZ	0.00001						
0.000000 00	5.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.590000 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239900 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239700 00	1.220000 00

0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239600 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239300 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.326011 00	3.921447-02	5.940299-02	1.607323-01	1.114900 00	4.480593 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.808231 00	0.000000 00	1.340391 00	1.383692 00	2.310681 00	3.824234 00	8.016205-01
0.60000 STZ	0.00001						
0.000000 00	6.190541 00	0.000000 00	0.000000 00	3.733171 00	3.135130 00	2.926383 00	7.651437-01
3.906034-02	0.000000 00	0.000000 00					
0.000000 00	7.098455 00	0.000000 00	0.000000 00	0.000000 00	2.673067 00	1.757874 00	5.935704-01
7.904086-02	2.367722-03	0.000000 00					
0.000000 00	1.051521 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.720366 00	7.539549-01
1.939733-01	2.171281-02	4.702196-04					

Be
T=.280

0.64000 BB 0.04177
0.000000 00 8.420000-01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 -1.800000-02 0.000000 00
0.60000 STZ 0.00001
0.000000 00 1.275000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 7.340000-01 8.180000-01
0.60000 STZ 0.00001
0.000000 00 2.380000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.173000 00 5.090000-01
3.500000-01 0.000000 00 0.000000 00
0.000000 00 3.310000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.397000 00 1.207000 00
1.200000-01 0.000000 00 0.000000 00
0.000000 00 3.940000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.306000 00 9.130000-01
0.60000 STZ 0.00001
0.000000 00 5.180000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.525000 00 6.340000-01
0.60000 STZ 0.00001
0.000000 00 5.280000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.600000 00 6.550000-01
0.60000 STZ 0.00001
0.000000 00 5.370000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.540000 00 6.800000-01
0.60000 STZ 0.00001
0.000000 00 5.420000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.590000 00 8.300000-01
0.60000 STZ 0.00001
0.000000 00 5.460000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.239900 00 8.300000-01
0.60000 STZ 0.00001
0.000000 00 5.460000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.239700 00 1.220000 00

0.60000 STZ 0.00001
0.000000 00 5.460000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.239600 00 1.220000 00
0.60000 STZ 0.00001
0.000000 00 5.497020 00 4.422386-04 1.449744-03 1.517558-02 5.825647-01 4.685469 00 1.220000 00
0.60000 STZ 0.00001
0.000000 00 5.699695 00 2.377853-01 2.436002-01 4.199725-01 1.524129 00 4.255607 00 7.928725-01
0.60000 STZ 0.00001
0.000000 00 5.904732 00 0.000000 00 2.677841 00 2.161947 00 2.716325 00 3.511226 00 7.977526-01
1.704864-02 0.000000 00 0.000000 00
0.000000 00 6.459938 00 0.000000 00 0.000000 00 4.414983 00 3.139717 00 2.587200 00 7.306790-01
5.574292-02 4.089416-04 0.000000 00
0.000000 00 7.720413 00 0.000000 00 0.000000 00 0.000000 00 2.525080 00 1.504526 00 5.379250-01
9.106642-02 4.860235-03 2.146138-05
0.000000 00 1.220260 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.337910 00 6.617801-01
1.918651-01 2.925599-02 1.767730-03

Be
T=.414

9.64000 BB	0.04177						
0.000000 00	8.420000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.800000-02	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.275000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.340000-01	8.190000-01
0.60000 STZ	0.00001						
0.000000 00	2.380000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.173000 00	5.090000-01
3.500000-01	0.000000 00	0.000000 00					
0.000000 00	3.310000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.397000 00	1.207000 00
1.200000-01	0.000000 00	0.000000 00					
0.000000 00	3.940000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.306000 00	9.130000-01
0.60000 STZ	0.00001						
0.000000 00	5.180000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.525000 00	6.340000-01
0.60000 STZ	0.00001						
0.000000 00	5.280000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.600000 00	6.550000-01
0.60000 STZ	0.00001						
0.000000 00	5.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.540000 00	6.800000-01
0.60000 STZ	0.00001						
0.000000 00	5.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.590000 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239900 00	9.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239700 00	1.220000 00

0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239600 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.382105 00	9.602053-03	1.740546-02	7.367615-02	8.838296-01	4.548634 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.750306 00	9.756353-01	7.528139-01	9.256119-01	2.009890 00	3.996877 00	8.012326-01
0.60000 STZ	0.00001						
0.000000 00	6.057425 00	0.000000 00	4.444214 00	3.008107 00	3.026776 00	3.153559 00	7.818493-01
2.952172-02	0.000000 00	0.000000 00					
0.000000 00	6.872243 00	0.000000 00	0.000000 00	4.763746 00	3.004443 00	2.240436 00	6.826309-01
7.449407-02	1.395525-03	0.000000 00					
0.000000 00	8.615927 00	0.000000 00	0.000000 00	0.000000 00	2.285459 00	1.265259 00	4.758611-01
9.893703-02	8.618676-03	1.312884-04					
0.000000 00	1.444757 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.969521 00	5.673024-01
1.809525-01	3.553061-02	2.736842-03					

Be
T=.536

0.64000 BB	0.04177						
0.000000 00	8.420000-01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	-1.800000-02	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.275000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.340000-01	8.180000-01
0.60000 STZ	0.00001						
0.000000 00	2.380000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.173000 00	5.090000-01
3.500000-01	0.000000 00	0.000000 00					
0.000000 00	3.310000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.397000 00	1.207000 00
1.200000-01	0.000000 00	0.000000 00					
0.000000 00	3.940000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.306000 00	9.130000-01
0.60000 STZ	0.00001						
0.000000 00	5.180000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.525000 00	6.340000-01
0.60000 STZ	0.00001						
0.000000 00	5.280000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.600000 00	6.550000-01
0.60000 STZ	0.00001						
0.000000 00	5.370000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.540000 00	6.800000-01
0.60000 STZ	0.00001						
0.000000 00	5.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.590000 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239900 00	8.300000-01
0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239700 00	1.220000 00

0.60000 STZ	0.00001						
0.000000 00	5.460000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.239600 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.282830 00	4.488412-02	6.172679-02	1.686848-01	1.131593 00	4.435503 00	1.220000 00
0.60000 STZ	0.00001						
0.000000 00	5.797885 00	1.999903 00	1.339909 00	1.397934 00	2.329521 00	3.798785 00	8.032873-01
0.60000 STZ	0.00001						
0.000000 00	6.198201 00	0.000000 00	5.573975 00	3.482706 00	3.141362 00	2.917254 00	7.640565-01
3.988637-02	0.000000 00	0.000000 00					
0.000000 00	7.235714 00	0.000000 00	0.000000 00	4.786337 00	2.854926 00	2.024367 00	6.455370-01
8.611749-02	2.621757-03	0.000000 00					
0.000000 00	9.364428 00	0.000000 00	0.000000 00	0.000000 00	2.104505 00	1.124642 00	4.347679-01
1.009089-01	1.145573-02	3.310015-04					
0.000000 00	1.622500 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.751285 00	5.099603-01
1.703565-01	3.809354-02	3.976188-03					

C
T=.0561

0.64000 RR	0.03723						
0.000000 00	1.230000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.150000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.105999 00	5.150000-01
0.60000 STZ	0.00001						
0.000000 00	2.260000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.404000 00	3.140000-01
0.60000 STZ	0.00001						
0.000000 00	2.930000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.326000 00	8.560000-01
0.60000 STZ	0.00001						
0.000000 00	3.590000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.157000 00	6.040000-01
0.60000 STZ	0.00001						
0.000000 00	4.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.949000 00	4.330000-01
0.60000 STZ	0.00001						
0.000000 00	4.440000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.010000 00	4.010000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	4.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.430939 00	0.003701 00	3.296255-03	3.353813-02	6.621982-01	3.882340 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.675460 00	0.000000 00	0.000000 00	4.142827-01	1.590839 00	3.395920 00	5.360712-01
0.60000 STZ	0.00001						
0.000000 00	4.826183 00	0.000000 00	0.000000 00	0.000000 00	1.533515 00	2.408634 00	5.409234-01
1.089292-02	0.000000 00	0.000000 00					
0.000000 00	5.382152 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.428358 00	7.906715-01
7.481834-02	6.346326-04	0.000000 00					

C
T=0.1097 eV

0.64000 BB 0.03723

0.000000 00	1.230000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.150000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.105999 00	5.150000-01
0.60000 STZ	0.00001						
0.000000 00	2.260000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.404000 00	3.140000-01
0.60000 STZ	0.00001						
0.000000 00	2.930000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.326000 00	8.560000-01
0.60000 STZ	0.00001						
0.000000 00	3.590000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.157000 00	6.040000-01
0.60000 STZ	0.00001						
0.000000 00	4.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.849000 00	4.330000-01
0.60000 STZ	0.00001						
0.000000 00	4.440000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.010000 00	4.010000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	4.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.177357 00	0.003701 00	9.438957-02	2.598566-01	1.175809 00	3.581130 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.758686 00	0.000000 00	0.000000 00	1.353305 00	2.178930 00	2.947296 00	5.638802-01
0.60000 STZ	0.00001						
0.000000 00	5.083659 00	0.000000 00	0.000000 00	0.000000 00	2.030093 00	1.919900 00	5.189867-01
2.748401-02	0.000000 00	0.000000 00					
0.000000 00	6.363158 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.882669 00	7.224724-01
1.149933-01	3.862729-03	0.000000 00					

C
T=.1523

0.64000 BB 0.04041
0.000000 00 1.230000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 7.150000-01 0.000000 00
0.60000 STZ 0.00001
0.000000 00 1.420000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.105999 00 5.150000-01
0.60000 STZ 0.00001
0.000000 00 2.260000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.404000 00 3.140000-01
0.60000 STZ 0.00001
0.000000 00 2.930000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.326000 00 8.560000-01
0.60000 STZ 0.00001
0.000000 00 3.590000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.157000 00 6.040000-01
0.60000 STZ 0.00001
0.000000 00 4.250000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.849000 00 4.330000-01
0.60000 STZ 0.00001
0.000000 00 4.440000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.017000 00 4.010000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.970000 00 4.300000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.970000 00 3.700000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 3.700000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01

0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.429720 00 1.219646-03 4.308202-03 3.013973-02 6.613774-01 3.881508 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.674239 00 0.000000 00 3.039415-01 5.275695-01 1.482834 00 3.397086 00 5.361460-01
0.60000 STZ 0.00001
0.000000 00 4.845143 00 0.000000 00 0.000000 00 2.023560 00 2.385845 00 2.702626 00 5.694783-01
1.114682-02 0.000000 00 0.000000 00
0.000000 00 5.289404 00 0.000000 00 0.000000 00 0.000000 00 2.143576 00 1.696607 00 4.972410-01
3.806268-02 2.889839-04 0.000000 00
0.000000 00 7.063239 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.588242 00 6.725745-01
1.307015-01 7.234384-03 3.070052-05

C
T=.194

0.64000 BB 0.04041
0.000000 00 1.230000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 7.150000-01 0.000000 00
0.60000 STZ 0.00001
0.000000 00 1.420000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.105999 00 5.150000-01
0.60000 STZ 0.00001
0.000000 00 2.260000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.404000 00 3.140000-01
0.60000 STZ 0.00001
0.000000 00 2.930000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.326000 00 8.560000-01
0.60000 STZ 0.00001
0.000000 00 3.590000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.157000 00 6.040000-01
0.60000 STZ 0.00001
0.000000 00 4.250000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.849000 00 4.330000-01
0.60000 STZ 0.00001
0.000000 00 4.440000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.010000 00 4.010000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.970000 00 4.300000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.970000 00 3.700000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 3.700000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01

0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.349005 00 7.466954-03 1.704391-02 7.166114-02 8.252757-01 3.783351 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.697350 00 0.000000 00 6.126589-01 8.095805-01 1.716896 00 3.245622 00 5.478880-01
0.60000 STZ 0.00001
0.000000 00 4.924382 00 0.000000 00 0.000000 00 2.533207 00 2.485504 00 2.518050 00 5.687376-01
1.642759-02 0.000000 00 0.000000 00
0.000000 00 5.487569 00 0.000000 00 0.000000 00 0.000000 00 2.162284 00 1.541972 00 4.772311-01
4.620730-02 6.439186-04 0.000000 00
0.000000 00 7.689259 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.370940 00 6.309683-01
1.389434-01 1.050754-02 9.350190-05

	0.64000 BB	0.04041						
C	0.000000 00	1.230000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.150000-01	0.000000 00
	0.60000 STZ	0.00001						
T=0.239 eV	0.000000 00	1.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.105999 00	5.150000-01
	0.60000 STZ	0.00001						
	0.000000 00	2.260000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.404000 00	3.140000-01
	0.60000 STZ	0.00001						
	0.000000 00	2.930000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.326000 00	8.560000-01
	0.60000 STZ	0.00001						
	0.000000 00	3.590000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.157000 00	6.040000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.849000 00	4.330000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.440000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.010000 00	4.010000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	4.300000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	3.700000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	3.700000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.270335 00	2.756402-02	4.601244-02	1.359387-01	9.863255-01	3.689655 00	7.300000-01
	0.60000 STZ	0.00001						
	0.000000 00	4.723771 00	0.000000 00	1.018274 00	1.107773 00	1.913465 00	3.105204 00	5.567071-01
	0.60000 STZ	0.00001						
	0.000000 00	5.010627 00	0.000000 00	0.000000 00	2.939436 00	2.532221 00	2.358585 00	5.644534-01
	2.200765-02	0.000000 00	0.000000 00					
	0.000000 00	5.697473 00	0.000000 00	0.000000 00	0.000000 00	2.138172 00	1.416013 00	4.576517-01
	5.306595-02	1.155815-03	0.000000 00					
	0.000000 00	8.313847 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.187699 00	5.929532-01
	1.433860-01	1.372319-02	2.095150-04					

C
T=.280

0.64000 BB	0.04177						
0.000000 00	1.230000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.150000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.105999 00	5.150000-01
0.60000 STZ	0.00001						
0.000000 00	2.260000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.404000 00	3.140000-01
0.60000 STZ	0.00001						
0.000000 00	2.930000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.326000 00	8.560000-01
0.60000 STZ	0.00001						
0.000000 00	3.590000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.157000 00	6.040000-01
0.60000 STZ	0.00001						
0.000000 00	4.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.849000 00	4.330000-01
0.60000 STZ	0.00001						
0.000000 00	4.440000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.010000 00	4.010000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	4.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.481483 00	3.640599-05	2.173206-04	5.217045-03	4.474964-01	3.958644 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.629998 00	6.475632-02	8.846304-02	2.088011-01	1.119857 00	3.590825 00	5.172251-01
0.60000 STZ	0.00001						
0.000000 00	4.752743 00	0.000000 00	1.417935 00	1.361483 00	2.053562 00	2.993523 00	5.621890-01
5.255449-03	0.000000 00	0.000000 00					
0.000000 00	5.089429 00	0.000000 00	0.000000 00	3.208094 00	2.543376 00	2.238617 00	5.589027-01
2.682908-02	5.700170-05	0.000000 00					
0.000000 00	5.884476 00	0.000000 00	0.000000 00	0.000000 00	2.098676 00	1.325241 00	4.415786-01
5.795941-02	1.703048-03	1.567751-06					
0.000000 00	8.844909 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.052745 00	5.633756-01
1.450570-01	1.628320-02	3.559494-04					

C
T=.414

0.64000 BB	0.04177						
0.000000 00	1.230000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	7.150000-01	0.000000 00
0.60000 STZ	0.00001						
0.000000 00	1.420000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.105999 00	5.150000-01
0.60000 STZ	0.00001						
0.000000 00	2.260000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.404000 00	3.140000-01
0.60000 STZ	0.00001						
0.000000 00	2.930000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	2.326000 00	8.560000-01
0.60000 STZ	0.00001						
0.000000 00	3.590000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.157000 00	6.040000-01
0.60000 STZ	0.00001						
0.000000 00	4.250000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.849000 00	4.330000-01
0.60000 STZ	0.00001						
0.000000 00	4.440000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	4.010000 00	4.010000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	4.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.970000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	3.700000-01
0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01

0.60000 STZ	0.00001						
0.000000 00	4.340000 00	0.000000 00	0.000000 00	0.000000 00	0.000000 00	3.610000 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.385843 00	1.481904-03	4.001287-03	3.011055-02	5.611811-01	3.836651 00	7.300000-01
0.60000 STZ	0.00001						
0.000000 00	4.658138 00	3.535687-01	3.306438-01	5.065862-01	1.482081 00	3.381547 00	5.373914-01
0.60000 STZ	0.00001						
0.000000 00	4.844129 00	0.000000 00	2.687691 00	2.037063 00	2.341865 00	2.703644 00	5.696191-01
1.118159-02	0.000000 00	0.000000 00					
0.000000 00	5.345839 00	0.000000 00	0.000000 00	3.670378 00	2.487352 00	1.950086 00	5.368981-01
4.043890-02	3.011366-04	0.000000 00					
0.000000 00	6.467891 00	0.000000 00	0.000000 00	0.000000 00	1.941797 00	1.118926 00	3.984033-01
6.802973-02	3.729814-03	1.821774-05					
0.000000 00	1.039577 01	0.000000 00	0.000000 00	0.000000 00	0.000000 00	1.739643 00	4.899236-01
1.432967-01	2.236532-02	1.022385-03					

C
T=.536

0.64000 BB 0.04177
0.000000 00 1.230000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 7.150000-01 0.000000 00
0.60000 STZ 0.00001
0.000000 00 1.420000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.105999 00 5.150000-01
0.60000 STZ 0.00001
0.000000 00 2.260000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.404000 00 3.140000-01
0.60000 STZ 0.00001
0.000000 00 2.930000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 2.326000 00 8.560000-01
0.60000 STZ 0.00001
0.000000 00 3.590000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.157000 00 6.040000-01
0.60000 STZ 0.00001
0.000000 00 4.250000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.849000 00 4.330000-01
0.60000 STZ 0.00001
0.000000 00 4.440000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 4.010000 00 4.010000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.970000 00 4.300000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.970000 00 3.700000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 3.700000-01
0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01

0.60000 STZ 0.00001
0.000000 00 4.340000 00 0.000000 00 0.000000 00 0.000000 00 0.000000 00 3.610000 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.307870 00 9.438797-03 1.758394-02 7.560606-02 8.371774-01 3.740036 00 7.300000-01
0.60000 STZ 0.00001
0.000000 00 4.686472 00 8.365928-01 6.530588-01 8.099649-01 1.731956 00 3.222626 00 5.498699-01
0.60000 STZ 0.00001
0.000000 00 4.929559 00 0.000000 00 3.629277 00 2.464344 00 2.470916 00 2.506445 00 5.686737-01
1.688767-02 0.000000 00 0.000000 00
0.000000 00 5.575286 00 0.000000 00 0.000000 00 3.803113 00 2.394582 00 1.768770 00 5.163892-01
5.009241-02 7.132860-04 0.000000 00
0.000000 00 6.963600 00 0.000000 00 0.000000 00 0.000000 00 1.808187 00 9.968415-01 3.601996-01
7.252021-02 3.569381-03 6.345412-05
0.000000 00 1.163149 01 0.000000 00 0.000000 00 0.000000 00 0.000000 00 1.551624 00 4.428345-01
1.382614-01 2.564153-02 1.732779-03

TABLES III

CRITICAL EXPERIMENTS

A. Safety Critical Experiments

This set of critical system specifications was obtained from a Nuclear Safety Data tabulation[3] by H. C. Paxton. The central region was Oralloy; the reflectors vary in thickness and material.

	Core Rad. (cm)	Refl.Rad.(cm)	Refl.Density(gm/cc)	k_{eff} (S_4)
Oy H_2O	6.88	11.96	1.00	1.00
	6.77	16.93		1.08
Oy D_2O	7.17	12.25	1.11	1.00
	6.59	16.75		1.00
Oy Be	7.35	9.89	1.84	1.02
	6.57	11.65		1.02
	5.77	15.93		1.02
Oy Fe	7.88	10.42	7.87	1.02
	7.35	12.42		1.02
	7.01	17.17		1.04
Oy Ni	7.14	12.22	8.35	1.00
	6.68	16.84		1.00
Oy	8.71	—	18.8	1.00
Oy Th	7.67	12.75	11.48	1.02
Oy U	7.48	10.02	19.0	1.01
	6.48	11.92		.99
	6.28	16.44		1.02
Pu	6.26	—		1.00
Pu Th	4.56	16.24	11.48	
Pu Oy	3.155	10.539	18.8	1.00
Pu Tu	4.56	16.24	19.0	1.02

Density of Oralloy (Oy) 18.8 gm/cc 93.5 per cent enrichment.
Plutonium (Pu) 15.8 gm/cc.

Oy Th
2 in.

g=0	0.64000 BB	0.04620				
	L_1 0.000000 00	S_1 7.447264 00	L_2 2.595076 00	S_2 9.658329-01	L_3 1.650989 00	
g=1	0.64000 BB	0.04620				
	0.000000 00	1.437459 01	4.673807 00	2.520383 00	3.093333 00	
g=2	0.64000 BB	0.04620				
	0.000000 00	9.219834 00	2.735696 00	3.089374 00	2.310540 00	
g=3	0.64000 BB	0.04620				
	0.000000 00	1.713019 01	4.054453 00	1.015590 01	5.032410 00	
g=4	0.64000 BB	0.04620				
	0.000000 00	1.863147 01	2.221419 00	1.519424 01	4.210281 00	
g=5	0.64000 BB	0.04620				
	0.000000 00	4.092705 00	1.976186-01	3.897259 00	6.550315-01	

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Id. No.	It. Cnt.	k_{eff}	ϵ	ϵ (calc.)	$\bar{f}_0$	$\bar{f}_0^I$	
3.100000-01	4.100000 01	1.022222 00	1.000000-05	1.448482-07	3.089728 01	3.022561 01	8.559131 01

r_i	t_i	n_i	f_i	N_i^0	N_i^1	N_i^2	N_i^3
1.000000 00	1.666666-01	0.005104 00	6.602893-01	5.521444-01	1.038620 00	6.588290-01	1.144970 00
2.000000 00	1.166666 00	0.005104 00	6.437788-01	5.381306-01	1.012121 00	6.422244-01	1.116771 00
3.000000 00	3.166666 00	0.005104 00	6.101378-01	5.091638-01	9.575236-01	6.081067-01	1.059278 00
4.000000 00	6.166667 00	0.005104 00	5.606179-01	4.660765-01	8.764601-01	5.576251-01	9.747757-01
5.000000 00	1.016666 01	0.005104 00	4.975099-01	4.107257-01	7.724498-01	4.930454-01	8.672849-01
6.000000 00	1.516666 01	0.005104 00	4.232285-01	3.443153-01	6.479443-01	4.164652-01	7.415309-01
7.000000 00	2.116666 01	0.005104 00	3.419076-01	2.707442-01	5.101545-01	3.321637-01	6.042986-01
7.670000 00	1.803627 01	0.005104 00	2.653874-01	1.956769-01	3.713443-01	2.506261-01	4.792721-01
8.200000 00	1.669172 01	0.005016 00	4.088073-03	1.390699-01	2.677612-01	1.918060-01	3.947364-01
8.800000 00	2.168399 01	0.005016 00	3.162960-03	1.069699-01	2.081441-01	1.557943-01	3.384525-01
9.400000 00	2.485199 01	0.005016 00	2.520672-03	8.492938-02	1.663717-01	1.284647-01	2.899889-01
1.000000 01	2.823599 01	0.005016 00	2.059820-03	6.926856-02	1.361609-01	1.073846-01	2.488691-01
1.059999 01	3.183599 01	0.005016 00	1.703029-03	5.723372-02	1.126325-01	9.014803-02	2.127821-01
1.120000 01	3.565199 01	0.005016 00	1.415470-03	4.759238-02	9.357922-02	7.561156-02	1.805342-01
1.179999 01	3.968399 01	0.005016 00	1.178971-03	3.969979-02	7.785202-02	6.319763-02	1.516784-01
1.275000 01	7.160665 01	0.005016 00	9.148215-04	3.101853-02	6.007782-02	4.802397-02	1.131365-01

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N_i^4	N_i^5
9.164778-01	1.403118-01
8.939515-01	1.368442-01
8.489335-01	1.300186-01
7.835329-01	1.201971-01
7.010227-01	1.078796-01
6.059437-01	9.402713-02
5.032866-01	7.940666-02
4.156819-01	6.814270-02
3.621811-01	6.255498-02
3.236452-01	5.791809-02
2.849286-01	5.214065-02
2.484095-01	4.603077-02
2.138345-01	3.980157-02
1.810173-01	3.354129-02
1.504941-01	2.754007-02
1.068157-01	1.858610-02

Oy U
2 in.

0.64000 BB 0.04620
0.000000 00 1.080518 01 3.818687 00 1.331620 00 2.668836 00

0.64000 BB 0.04620
0.000000 00 2.083241 01 6.873595 00 3.321247 00 4.931564 00

0.64000 BB 0.04620
0.000000 00 1.413696 01 3.928391 00 4.184405 00 3.599117 00

0.64000 BB 0.04620
0.000000 00 2.609503 01 5.827498 00 1.273752 01 7.320346 00

0.64000 BB 0.04620
0.000000 00 2.697430 01 3.250954 00 1.744461 01 5.648909 00

JUL 30 58

0.64000 BB 0.04620
0.000000 00 5.850713 00 3.154580-01 3.971471 00 7.814777-01

JUL 30 58

1.300000-01 2.800000 01 1.019203 00 1.000000-05 6.211781-07 4.683955 01 4.595705 01 1.965131 02

JUL 30 58

9.000000-01	1.214999-01	0.005026 00	1.017506 00	8.435096-01	1.585506 00	1.023140 00	1.776189 00
1.800000 00	8.505000-01	0.005026 00	9.964393-01	8.259132-01	1.552223 00	1.001714 00	1.739844 00
2.700000 00	2.308499 00	0.005026 00	9.533339-01	7.892002-01	1.483040 00	9.575583-01	1.665648 00
3.600000 00	4.495500 00	0.005026 00	8.893953-01	7.339633-01	1.379201 00	8.917480-01	1.556013 00
4.500000 00	7.411499 00	0.005026 00	8.074498-01	6.631385-01	1.246067 00	8.073373-01	1.415395 00
5.400000 00	1.105649 01	0.005026 00	7.092324-01	5.756339-01	1.082279 00	7.052056-01	1.248932 00
6.300000 00	1.543049 01	0.005026 00	6.020683-01	4.823391-01	9.068156-01	5.941607-01	1.065118 00
7.480000 00	2.807699 01	0.005026 00	4.613596-01	3.459357-01	6.544284-01	4.438896-01	8.356182-01
7.800000 00	9.340499 00	0.005114 00	4.837281-02	2.304952-01	4.428862-01	3.240742-01	6.648727-01
8.100000 00	9.481498 00	0.005114 00	4.057204-02	1.918394-01	3.706018-01	2.811364-01	5.977324-01
8.400000 00	1.021049 01	0.005114 00	3.482480-02	1.638658-01	3.174868-01	2.467940-01	5.373059-01
8.700000 00	1.096649 01	0.005114 00	3.017373-02	1.415843-01	2.746160-01	2.171525-01	4.805362-01
9.000000 00	1.174949 01	0.005114 00	2.626815-02	1.231426-01	2.387177-01	1.908932-01	4.267748-01
9.300000 00	1.255949 01	0.005114 00	2.289012-02	1.074052-01	2.077590-01	1.670948-01	3.752852-01
9.600000 00	1.339649 01	0.005114 00	1.987891-02	9.356798-02	1.802394-01	1.448861-01	3.248026-01
1.002000 01	2.021267 01	0.005114 00	1.640520-02	7.806795-02	1.486047-01	1.171343-01	2.569828-01

JUL 30 58

1.400936 00	2.141992-01
1.372398 00	2.097298-01
1.315302 00	2.009374-01
1.231970 00	1.882079-01
1.125363 00	1.719152-01
1.001773 00	1.533313-01
8.639393-01	1.325735-01
7.040763-01	1.100313-01
5.934720-01	9.585242-02
5.448522-01	8.927363-02
4.952716-01	8.166289-02
4.448357-01	7.339920-02
3.942216-01	6.473733-02
3.436158-01	5.581497-02
2.925408-01	4.671279-02
2.201817-01	3.342025-02

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0.64000 BB	0.04620						
0.000000 00	9.817056 00	3.883868 00	2.587863 00	1.788980 00			
0.64000 BB	0.04620						
0.000000 00	1.876027 01	6.936612 00	6.450076 00	3.318984 00			
0.64000 BB	0.04620						
0.000000 00	1.255742 01	3.840180 00	8.799185 00	2.882861 00			
0.64000 BB	0.04620						
0.000000 00	2.320807 01	5.296872 00	3.134812 01	7.437559 00			
0.64000 BB	0.04620						
0.000000 00	2.537239 01	2.525187 00	5.439300 01	7.312604 00			
0.64000 BB	0.04620						JUL 30 58
0.000000 00	5.691975 00	1.542907-01	1.436539 01	1.149045 00			
1.400000-01	4.300000 01	9.858886-01	1.000000-05	2.312201-07	4.471732 01	4.535746 01	JUL 30 58 2.474708 02
8.000000-01	8.533333-02	0.005016 00	1.301677 00	1.028946 00	1.927631 00	1.242881 00	JUL 30 58 2.183165 00
1.600000 00	5.973333-01	0.005016 00	1.279162 00	1.009951 00	1.891783 00	1.220112 00	2.145774 00
2.400000 00	1.621333 00	0.005016 00	1.232677 00	9.698768-01	1.816466 00	1.172730 00	2.068822 00
3.200000 00	3.157333 00	0.005016 00	1.163045 00	9.086802-01	1.701804 00	1.101248 00	1.954147 00
4.000000 00	5.205333 00	0.005016 00	1.072803 00	8.287728-01	1.552219 00	1.008256 00	1.805727 00
4.800000 00	7.765333 00	0.005016 00	9.631494-01	7.276290-01	1.363877 00	8.935031-01	1.627988 00
5.600000 00	1.083733 01	0.005016 00	8.419222-01	6.167715-01	1.156787 00	7.662746-01	1.429723 00
6.480000 00	1.608029 01	0.005016 00	6.920928-01	4.601749-01	8.698637-01	6.019132-01	1.199166 00
7.200000 00	1.685836 01	0.005104 00	6.435681-02	2.926173-01	5.646243-01	4.332845-01	9.746536-01
7.900000 00	1.996516 01	0.005104 00	4.456529-02	1.978640-01	3.874620-01	3.251049-01	8.025704-01
8.600000 00	2.383616 01	0.005104 00	3.347876-02	1.467466-01	2.889013-01	2.544279-01	6.628772-01
9.300000 00	2.805016 01	0.005104 00	2.563319-02	1.113953-01	2.197086-01	2.005027-01	5.434139-01
1.000000 01	3.260716 01	0.005104 00	1.972422-02	8.527690-02	1.681016-01	1.575472-01	4.393378-01
1.070000 01	3.750715 01	0.005104 00	1.513495-02	6.537318-02	1.284567-01	1.225021-01	3.475439-01
1.140000 01	4.275017 01	0.005104 00	1.145272-02	4.972756-02	9.700483-02	9.293726-02	2.643896-01
1.192000 01	3.535431 01	0.005104 00	8.560228-03	3.782829-02	7.258842-02	6.810398-02	1.892128-01
							JUL 30 58
1.796170 00	2.760559-01						
1.768450 00	2.719142-01						
1.712755 00	2.637883-01						
1.631347 00	2.521330-01						
1.527035 00	2.373276-01						
1.406963 00	2.211698-01						
1.273405 00	2.036675-01						
1.138708 00	1.898771-01						
1.018423 00	1.810372-01						
8.972997-01	1.667098-01						
7.706538-01	1.465444-01						
6.476935-01	1.247552-01						
5.298091-01	1.023027-01						
4.174233-01	7.971044-02						
3.099208-01	5.751199-02						
2.078706-01	3.608002-02						

Oy U
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0.64000 BB 0.04620
0.000000 00 1.295843 01 5.264464 00 5.209676 00 1.149702 00

0.64000 BB 0.04620
0.000000 00 2.471123 01 9.381200 00 1.303420 01 2.139013 00

0.64000 BB 0.04620
0.000000 00 1.651360 01 5.131533 00 1.950883 01 2.344528 00

0.64000 BB 0.04620
0.000000 00 3.097446 01 6.775153 00 8.533272 01 8.503564 00

0.64000 BB 0.04620
0.000000 00 3.642513 01 2.562738 00 2.027964 02 1.193453 01
JUL 30 58

0.64000 BB 0.04620
0.000000 00 8.384460 00 -1.321564-02 6.143108 01 2.089407 00
JUL 30 58

1.500000-01 3.800000 01 1.019295 00 1.000000-05 5.531903-07 6.526342 01 6.402896 01 4.964877 02
JUL 30 58

8.000000-01	8.533333-02	0.005016 00	1.793607 00	1.421422 00	2.663538 00	1.725678 00	3.098720 00
1.600000 00	5.973333-01	0.005016 00	1.765017 00	1.395841 00	2.615157 00	1.694950 00	3.048832 00
2.400000 00	1.621333 00	0.005016 00	1.705896 00	1.341795 00	2.513372 00	1.630916 00	2.946012 00
3.200000 00	3.157333 00	0.005016 00	1.617058 00	1.258752 00	2.357503 00	1.533822 00	2.792308 00
4.000000 00	5.205333 00	0.005016 00	1.501138 00	1.148658 00	2.151249 00	1.406133 00	2.592353 00
4.800000 00	7.765333 00	0.005016 00	1.359941 00	1.008114 00	1.889386 00	1.247313 00	2.351845 00
5.600000 00	1.083733 01	0.005016 00	1.201406 00	8.479253-01	1.590854 00	1.066594 00	2.080878 00
6.280000 00	1.200952 01	0.005016 00	1.027183 00	6.444179-01	1.219286 00	8.571931-01	1.801138 00
7.400000 00	2.625847 01	0.005104 00	8.471319-02	3.929261-01	7.605688-01	6.025957-01	1.466397 00
8.600000 00	3.847199 01	0.005104 00	4.906819-02	2.174494-01	4.306175-01	3.935299-01	1.120736 00
9.800000 00	5.085600 01	0.005104 00	3.251642-02	1.404329-01	2.794221-01	2.739500-01	8.575588-01
1.100000 01	6.496800 01	0.005104 00	2.190956-02	9.220032-02	1.841174-01	1.928788-01	6.550345-01
1.220000 01	8.080798 01	0.005104 00	1.504123-02	6.187769-02	1.237878-01	1.368561-01	4.964465-01
1.340000 01	9.837600 01	0.005104 00	1.038925-02	4.201819-02	8.400883-02	9.686478-02	3.694876-01
1.460000 01	1.176719 02	0.005104 00	7.182730-03	2.875555-02	5.734326-02	6.824010-02	2.696927-01
1.644000 01	2.218603 02	0.005104 00	4.267743-03	1.739212-02	3.411915-02	4.062760-02	1.604033-01
							JUL 30 58

2.698850 00	4.130970-01
2.664470 00	4.084589-01
2.595403 00	3.994347-01
2.494862 00	3.867784-01
2.366963 00	3.712119-01
2.222289 00	3.558079-01
2.065008 00	3.412296-01
1.935579 00	3.373714-01
1.789707 00	3.392868-01
1.554617 00	3.172396-01
1.295714 00	2.757826-01
1.057338 00	2.312439-01
8.409892-01	1.866646-01
6.442222-01	1.433874-01
4.740840-01	1.042773-01
2.681105-01	5.567695-02

0y H_2O 2 in.

1.600000-01	1.200000 01	1.002500 00	1.000000-05	-3.400586-05	1.760654 01	1.755460 01	3.603145 01
							AUG 04 58
0.64000 BB	0.04620						
0.000000 00	4.206628 00	1.756423 00	0.000000 00	1.025508 00			
0.64000 BB	0.04620						
0.000000 00	8.174836 00	3.181569 00	0.000000 00	1.664742 00			
0.64000 BB	0.04620						
0.000000 00	5.065020 00	1.850997 00	5.817042-01	7.119809-01			
0.64000 BB	0.04620						
0.000000 00	8.658542 00	2.755623 00	1.850624 00	1.036445 00			
0.64000 BB	0.04620						
0.000000 00	8.663562 00	1.556823 00	4.074599 00	8.826223-01			
0.64000 BB	0.04620						
0.000000 00	7.242114 00	-1.445297 00	4.076842 01	4.863690 00			
							AUG 04 58
1.600000-01	1.300000 01	1.002471 00	1.000000-05	-2.947407-05	1.761245 01	1.756261 01	3.606738 01
							AUG 04 58
9.000000-01	1.214999-01	0.005172 00	4.599887-01	3.748892-01	6.992108-01	4.358649-01	7.236791-01
1.800000 00	8.505000-01	0.005172 00	4.514003-01	3.670546-01	6.842604-01	4.263869-01	7.071952-01
2.700000 00	2.208499 00	0.005172 00	4.239180-01	3.506832-01	6.531065-01	4.066722-01	6.731258-01
3.600000 00	4.495500 00	0.005172 00	4.081020-01	3.257526-01	6.057320-01	3.767980-01	6.217977-01
4.500000 00	7.411499 00	0.005172 00	3.748176-01	2.927748-01	5.431133-01	3.374186-01	5.544788-01
5.400000 00	1.105649 01	0.005172 00	3.363650-01	2.511071-01	4.640962-01	2.882447-01	4.714102-01
6.300000 00	1.543049 01	0.005172 00	2.947448-01	2.024976-01	3.719686-01	2.312500-01	3.759381-01
6.880000 00	1.260227 01	0.005172 00	2.577204-01	1.459972-01	2.659837-01	1.683509-01	2.757878-01
7.500000 00	1.603572 01	0.005260 00	0.000000 00	9.578229-02	1.722296-01	1.107928-01	1.863756-01
8.100000 00	1.826099 01	0.005260 00	0.000000 00	6.757247-02	1.194955-01	7.492069-02	1.279088-01
8.700000 00	2.117699 01	0.005260 00	0.000000 00	5.225987-02	9.125929-02	5.586594-02	9.543815-02
9.300000 00	2.430899 01	0.005260 00	0.000000 00	4.197084-02	7.241687-02	4.309055-02	7.319796-02
9.900000 00	2.765699 01	0.005260 00	0.000000 00	3.439141-02	5.862708-02	3.478053-02	5.684826-02
1.050000 01	3.122099 01	0.005260 00	0.000000 00	2.853823-02	4.806056-02	2.671454-02	4.643856-02
1.110000 01	3.500099 01	0.005260 00	0.000000 00	2.389758-02	3.975387-02	2.176006-02	3.478234-02
1.196000 01	5.719108 01	0.005260 00	0.000000 00	1.952422-02	3.201008-02	1.582186-02	2.494234-02
							AUG 04 58
5.666610-01	1.782714-01						
5.532386-01	1.805952-01						
5.260917-01	1.864002-01						
4.857732-01	1.973790-01						
4.334709-01	2.140971-01						
3.699579-01	2.362659-01						
2.975904-01	2.642552-01						
2.276351-01	3.772260-01						
1.690583-01	4.696617-01						
1.259520-01	4.968440-01						
9.705103-02	4.724106-01						
7.574062-02	4.290693-01						
5.937614-02	3.753705-01						
4.642479-02	3.153915-01						
3.620835-02	2.545757-01						
2.476034-02	1.662773-01						

AUG 04 58

Oy H_2O 1.700000-01 1.800000 01 1.082746 00 1.000000-05 -1.960171-06 1.234494 01 1.140201 01 1.629761 01

4 in.

AUG 04 58

0.64000 BB 0.04620
0.000000 00 2.786157 00 1.165679 00 0.000000 00 4.028618-01

0.64000 BB 0.04620
0.000000 00 5.276877 00 2.108126 00 0.000000 00 5.874396-01

0.64000 BB 0.04620
0.000000 00 3.258392 00 1.218424 00 6.254482-01 1.909686-01

0.64000 BB 0.04620
0.000000 00 5.537683 00 1.799944 00 1.849050 00 2.566835-01

0.64000 BB 0.04620
0.000000 00 5.529299 00 1.014245 00 3.916079 00 2.281737-01

0.64000 BB 0.04620
0.000000 00 6.586524 00 -1.524942 00 9.467898 01 4.639424 00

AUG 04 58

1.700000-01 1.900000 01 1.082743 00 1.000000-05 -2.077378-06 1.234446 01 1.140151 01 1.629627 01

AUG 04 58

8.000000-01 8.533333-02 0.005172 00 2.791423-01 2.349991-01 4.387958-01 2.748135-01 4.587418-01
1.600000 00 5.973333-01 0.005172 00 2.760522-01 2.317568-01 4.325249-01 2.707359-01 4.513720-01
2.400000 00 1.621333 00 0.005172 00 2.698309-01 2.248524-01 4.192122-01 2.621171-01 4.359287-01
3.200000 00 3.157333 00 0.005172 00 2.605734-01 2.139703-01 3.982945-01 2.486777-01 4.121094-01
4.000000 00 5.205333 00 0.005172 00 2.484558-01 1.998100-01 3.710511-01 2.310925-01 3.808841-01
4.800000 00 7.765333 00 0.005172 00 2.341148-01 1.800020-01 3.332041-01 2.072584-01 3.397652-01
5.600000 00 1.083733 01 0.005172 00 2.190282-01 1.598761-01 2.943695-01 1.821861-01 2.953751-01
6.770000 00 2.244545 01 0.005172 00 1.990254-01 1.358711-01 2.514643-01 1.525075-01 2.450992-01
8.000000 00 3.361854 01 0.005260 00 0.000000 00 5.865868-02 1.051722-01 6.674938-02 1.118497-01
9.300000 00 4.872616 01 0.005260 00 0.000000 00 3.114832-02 5.431073-02 3.241404-02 5.532357-02
1.059999 01 6.444316 01 0.005260 00 0.000000 00 2.045832-02 3.467852-02 1.988270-02 3.344762-02
1.190000 01 8.235716 01 0.005260 00 0.000000 00 1.394075-02 2.297874-02 1.337072-02 2.043550-02
1.320000 01 1.024681 02 0.005260 00 0.000000 00 9.773282-03 1.566776-02 7.987590-03 1.295128-02
1.450000 01 1.247761 02 0.005260 00 0.000000 00 7.008347-03 1.092863-02 5.260947-03 8.364227-03
1.580000 01 1.492811 02 0.005260 00 0.000000 00 5.119150-03 7.765603-03 3.526572-03 5.451989-03
1.693000 01 1.713745 02 0.005260 00 0.000000 00 3.859311-03 5.703375-03 2.313523-03 3.406380-03

AUG 04 58

3.619342-01 1.547574-01
3.557498-01 1.573657-01
3.431089-01 1.629082-01
3.240050-01 1.756200-01
2.990243-01 1.908243-01
2.673217-01 2.191152-01
2.317137-01 2.498415-01
1.744322-01 3.459833-01
1.040307-01 4.814298-01
5.877811-02 5.046411-01
3.579179-02 4.476018-01
2.239573-02 3.758606-01
1.428240-02 2.984444-01
9.206058-03 2.221881-01
5.920692-03 1.517507-01
3.501072-03 8.504010-02

Oy D_2O
2 in.

0.64000 BB	0.05453						
0.000000 00	6.491331 00	2.482486 00	1.343211-01	1.136869 00			
0.64000 BB	0.05453						
0.000000 00	1.228141 01	4.396030 00	1.433501 00	2.133366 00			
0.64000 BB	0.05453						
0.000000 00	8.187926 00	2.508638 00	2.539719 00	1.162503 00			
0.64000 BB	0.05453						
0.000000 00	1.451564 01	3.765265 00	7.061731 00	2.287831 00			
0.64000 BB	0.05453						
0.000000 00	1.494634 01	2.013449 00	1.230280 01	2.967995 00			
0.64000 BB	0.05453						
0.000000 00	6.569676 00	-8.093906-01	2.052643 01	4.652982 00			

SEP 13 58

2.100000-01	1.600000 01	1.009836 00	1.000000-05	2.399087-06	0.000000 00	2.592329 01	2.617829 01

SEP 13 58

9.000000-01	1.214999-01	0.005264 00	6.504636-01	5.307107-01	9.990971-01	6.405892-01	1.088059 00
1.800000 00	8.505000-01	0.005264 00	6.372077-01	5.193626-01	9.776659-01	6.267542-01	1.064371 00
2.700000 00	2.308499 00	0.005264 00	6.102507-01	4.956322-01	9.330440-01	5.981518-01	1.015724 00
3.600000 00	4.495500 00	0.005264 00	5.704031-01	4.596973-01	8.657157-01	5.552529-01	9.432020-01
4.500000 00	7.411499 00	0.005264 00	5.191555-01	4.132115-01	7.786883-01	4.998925-01	8.497970-01
5.400000 00	1.105649 01	0.005264 00	4.587174-01	3.548664-01	6.702792-01	4.318185-01	7.365349-01
6.300000 00	1.543049 01	0.005264 00	3.927489-01	2.912446-01	5.515994-01	3.569389-01	6.115927-01
7.170000 00	1.975913 01	0.005264 00	3.213433-01	2.063205-01	3.977806-01	2.646239-01	4.655553-01
7.800000 00	1.765836 01	0.005352 00	0.000000 00	1.255557-01	2.526112-01	1.770458-01	3.324781-01
8.400000 00	1.969199 01	0.005352 00	0.000000 00	8.663587-02	1.789880-01	1.274723-01	2.523682-01
9.000000 00	2.271599 01	0.005352 00	0.000000 00	6.572953-02	1.374440-01	9.796927-02	1.994735-01
9.600000 00	2.595599 01	0.005352 00	0.000000 00	5.163950-02	1.085310-01	7.678277-02	1.592844-01
1.020000 01	2.941199 01	0.005352 00	0.000000 00	4.130356-02	8.685343-02	6.063892-02	1.273940-01
1.080000 01	3.308399 01	0.005352 00	0.000000 00	3.339582-02	6.998403-02	4.794693-02	1.014619-01
1.140000 01	3.697199 01	0.005352 00	0.000000 00	2.720580-02	5.660398-02	3.786513-02	8.026357-02
1.225000 01	5.945359 01	0.005352 00	0.000000 00	2.142913-02	4.332888-02	2.719954-02	5.673596-02

SEP 13 58

8.646199-01	1.783081-01
8.461840-01	1.773459-01
8.091553-01	1.766206-01
7.548543-01	1.772697-01
6.853368-01	1.785042-01
6.036631-01	1.884667-01
5.129656-01	2.014576-01
4.189374-01	2.495251-01
3.453136-01	3.142548-01
2.939968-01	3.300056-01
2.481717-01	3.171084-01
2.078221-01	2.922719-01
1.722726-01	2.607720-01
1.407786-01	2.252820-01
1.131646-01	1.882229-01
7.929281-02	1.332087-01

Oy

D_2O

Oy D_2O 4 in.

0.64000 BB 0.05453
0.000000 00 4.583531 00 1.915673 00 1.501135-01 4.118457-01

0.64000 BB 0.05453
0.000000 00 8.734921 00 3.383201 00 1.618012 00 7.520801-01

0.64000 BB 0.05453
0.000000 00 5.739364 00 1.909709 00 2.908992 00 3.655142-01

0.64000 BB 0.05453
0.000000 00 9.974226 00 2.801205 00 9.310096 00 7.949349-01

0.64000 BB 0.05453
0.000000 00 1.023189 01 1.463675 00 1.622473 01 1.395463 00

0.64000 BB 0.05453
0.000000 00 6.505246 00 -1.153293 00 5.741137 01 6.583331 00

SEP 13 59

2.200000-01 1.600000 01 1.006896 00 1.000000-05 -8.717179-06 0.000000 00 1.975411 01 1.882345 01

SEP 13 59

Oy

8.000000-01 8.533333-02 0.005264 00 5.517256-01 4.410802-01 8.290581-01 5.292154-01 8.912503-01
1.600000 00 5.973333-01 0.005264 00 5.433019-01 4.335153-01 8.147376-01 5.199312-01 8.753157-01
2.400000 00 1.621333 00 0.005264 00 5.260807-01 4.174843-01 7.845401-01 5.005201-01 8.422692-01
3.200000 00 3.157333 00 0.005264 00 5.003946-01 3.927037-01 7.380737-01 4.708982-01 7.922734-01
4.000000 00 5.205333 00 0.005264 00 4.669642-01 3.603796-01 6.774704-01 4.322686-01 7.271241-01
4.800000 00 7.765333 00 0.005264 00 4.269696-01 3.178467-01 5.975136-01 3.829004-01 6.456361-01
5.600000 00 1.083733 01 0.005264 00 3.833500-01 2.725094-01 5.136080-01 3.289932-01 5.555190-01
6.590000 00 1.842919 01 0.005264 00 3.282244-01 1.959078-01 3.748113-01 2.464017-01 4.271387-01
9.000000 00 3.763480 01 0.005352 00 0.000000 00 8.227857-02 1.890417-01 1.365639-01 2.602998-01
9.300000 00 4.872616 01 0.005352 00 0.000000 00 4.834824-02 9.769393-02 6.905720-02 1.469097-01

D_2O

1.059999 01 6.444316 01 0.005352 00 0.000000 00 2.999573-02 6.291224-02 4.395618-02 9.569393-02
1.190000 01 8.235716 01 0.005352 00 0.000000 00 1.917007-02 4.035792-02 2.766770-02 6.234470-02
1.320000 01 1.024681 02 0.005352 00 0.000000 00 1.259715-02 2.658428-02 1.795725-02 4.109290-02
1.450000 01 1.247761 02 0.005352 00 0.000000 00 8.455807-03 1.777553-02 1.161706-02 2.704359-02
1.580000 01 1.492811 02 0.005352 00 0.000000 00 5.767941-03 1.196213-02 7.509288-03 1.744530-02
1.675000 01 1.258516 02 0.005352 00 0.000000 00 4.134030-03 8.239950-03 4.743868-03 1.091007-02

SEP 13 59

7.142142-01 1.973267-01
7.018751-01 1.985516-01
6.769798-01 2.022525-01
6.399583-01 2.096940-01
5.919822-01 2.195932-01
5.344137-01 2.412075-01
4.692034-01 2.656059-01
3.884645-01 3.412302-01
2.912783-01 4.475359-01
2.051978-01 4.621792-01
1.452278-01 4.120898-01
1.027030-01 3.513117-01
7.180370-02 2.855068-01
4.923386-02 2.196699-01
3.248822-02 1.569399-01
1.996920-02 9.932294-02

Oy Be
I in.

0.64000 BB 0.05521
0.000000 00 7.009859 00 2.603833 00 4.209947-01 1.766713 00

0.64000 BB 0.05521
0.000000 00 1.360785 01 4.450748 00 3.023390 00 3.958409 00

0.64000 BB 0.05521
0.000000 00 8.734501 00 2.588945 00 3.431565 00 2.211579 00

0.64000 BB 0.05521
0.000000 00 1.608512 01 3.918921 00 9.269174 00 3.450752 00

0.64000 BB 0.05521
0.000000 00 1.736909 01 2.179991 00 1.206692 01 3.066800 00

0.64000 BB 0.05521
0.000000 00 5.259914 00 -2.319045-01 9.721528 00 1.567066 00

AUG 32 58

4.300000-01 1.700000 01 1.025652 00 1.000000-05 -2.562999-06 0.000000 00 2.822240 01 2.894638 01

AUG 32 58

7.000000-01	5.716666-02	0.005326 00	6.684567-01	5.536942-01	1.053733 00	6.711080-01	1.162470 00
1.400000 00	4.001666-01	0.005326 00	6.605664-01	5.468472-01	1.040912 00	6.630589-01	1.148620 00
2.100000 00	1.086166 00	0.005326 00	6.443198-01	5.325545-01	1.014255 00	6.463505-01	1.120047 00
2.800000 00	2.115166 00	0.005326 00	6.199175-01	5.108559-01	9.739301-01	6.211224-01	1.077081 00
3.500000 00	3.487166 00	0.005326 00	5.878346-01	4.821065-01	9.206488-01	5.878472-01	1.020583 00
4.200000 00	5.202166 00	0.005326 00	5.487936-01	4.465196-01	8.550851-01	5.470724-01	9.516710-01
4.900000 00	7.260166 00	0.005326 00	5.036809-01	4.051115-01	7.789562-01	4.998286-01	8.720518-01
5.600000 00	9.661165 00	0.005326 00	4.533306-01	3.586963-01	6.914680-01	4.462019-01	7.826886-01
6.300000 00	1.240516 01	0.005326 00	4.004904-01	3.079573-01	6.012136-01	3.902427-01	6.884995-01
7.350000 00	2.450306 01	0.005326 00	3.264628-01	2.445221-01	4.591108-01	3.069456-01	5.556989-01
7.600000 00	6.985104 00	0.005240 00	0.000000 00	1.504754-01	3.385630-01	2.358784-01	4.427161-01
7.900000 00	9.010498 00	0.005240 00	0.000000 00	1.264005-01	2.964281-01	2.059511-01	3.879587-01
8.200000 00	9.721498 00	0.005240 00	0.000000 00	1.066656-01	2.589175-01	1.788149-01	3.366413-01
8.500000 00	1.045949 01	0.005240 00	0.000000 00	9.156408-02	2.277387-01	1.558288-01	2.918318-01
8.800000 00	1.122449 01	0.005240 00	0.000000 00	7.948728-02	2.009244-01	1.357440-01	2.517476-01
9.100000 00	1.201649 01	0.005240 00	0.000000 00	6.948712-02	1.771915-01	1.177391-01	2.151945-01
9.400000 00	1.283549 01	0.005240 00	0.000000 00	6.095244-02	1.554939-01	1.010825-01	1.810092-01
9.700000 00	1.368149 01	0.005240 00	0.000000 00	5.340586-02	1.345373-01	8.462282-02	1.469134-01
9.800000 00	4.753162 00	0.005240 00	0.000000 00	4.867644-02	1.203861-01	7.321293-02	1.230685-01
9.890000 00	4.361607 00	0.005240 00	0.000000 00	4.649965-02	1.132484-01	6.720195-02	1.102882-01

AUG 32 58

9.313301-01	1.605002-01
9.200846-01	1.593186-01
8.973317-01	1.570107-01
8.634863-01	1.537541-01
8.192890-01	1.496426-01
7.658541-01	1.454684-01
7.043619-01	1.409493-01
6.366821-01	1.389316-01
5.638599-01	1.357309-01
4.703824-01	1.478340-01
3.984193-01	1.682056-01
3.676770-01	1.725464-01
3.241605-01	1.688574-01
2.866130-01	1.590642-01
2.501967-01	1.450634-01
2.148883-01	1.279657-01
1.801105-01	1.083505-01
1.439382-01	8.542120-02
1.179487-01	6.787464-02
1.036256-01	5.762444-02

Oy

Be

AUG 32 58

Oy Be
2 in.

0.640000 BB 0.04620
0.000000 00 3.598556 00 1.514203 00 0.000000 00 7.773468-01

0.640000 BB 0.04620
0.000000 00 6.955594 00 2.517481 00 2.557085 00 1.876296 00

0.640000 BB 0.04620
0.000000 00 4.422588 00 1.411906 00 3.595071 00 9.247828-01

0.640000 BB 0.04620
0.000000 00 8.038832 00 2.057957 00 1.023996 01 1.432424 00

0.640000 BB 0.04620
0.000000 00 8.901076 00 1.054635 00 1.568091 01 1.619883 00

0.640000 BB 0.04620
0.000000 00 3.946455 00 -5.065658-01 2.499721 01 1.923695 00

JUL 23 58
4.200000-01 1.900000 01 1.021514 00 1.000000-05 1.725389-06 1.505229 01 1.473545 01 3.095204 01
JUL 23 58
8.000000-01 8.533333-02 0.005104 00 4.362135-01 3.478358-01 6.683625-01 4.270169-01 7.392754-01
1.600000 00 5.973333-01 0.005104 00 4.297293-01 3.418729-01 6.572690-01 4.200887-01 7.274197-01
2.400000 00 1.621333 00 0.005104 00 4.163730-01 3.292172-01 6.339618-01 4.056057-01 7.028608-01
3.200000 00 3.157333 00 0.005104 00 3.963410-01 3.096092-01 5.982651-01 3.835902-01 6.658609-01
4.000000 00 5.205333 00 0.005104 00 3.703010-01 2.839325-01 5.515290-01 3.547908-01 6.176051-01
Oy 4.800000 00 7.765333 00 0.005104 00 3.386731-01 2.500351-01 4.915671-01 3.186314-01 5.582118-01
5.600000 00 1.083733 01 0.005104 00 3.040417-01 2.136389-01 4.257624-01 2.785463-01 4.918924-01
6.570000 00 1.799623 01 0.005104 00 2.590784-01 1.527484-01 3.251985-01 2.214167-01 4.035471-01
7.200000 00 1.494243 01 0.005016 00 0.000000 00 8.889674-02 2.214174-01 1.596368-01 3.064968-01
7.800000 00 1.688399 01 0.005016 00 0.000000 00 6.079623-02 1.676849-01 1.209431-01 2.371596-01
8.400000 00 1.969199 01 0.005016 00 0.000000 00 4.620511-02 1.343920-01 9.590175-02 1.888773-01
Be 9.000000 00 2.271599 01 0.005016 00 0.000000 00 3.647646-02 1.095731-01 7.682883-02 1.506958-01
9.600000 00 2.595599 01 0.005016 00 0.000000 00 2.936998-02 8.990200-02 6.161044-02 1.195521-01
1.020000 01 2.941199 01 0.005016 00 0.000000 00 2.394413-02 7.381000-02 4.911214-02 9.353277-02
1.080000 01 3.308399 01 0.005016 00 0.000000 00 1.969975-02 6.045787-02 3.883248-02 7.194304-02
1.165000 01 5.357585 01 0.005016 00 0.000000 00 1.578828-02 4.572234-02 2.693069-02 4.688627-02
JUL 23 58
6.065234-01 1.342584-01
5.971719-01 1.344135-01
5.782986-01 1.351830-01
5.504104-01 1.371545-01
5.143094-01 1.401179-01
4.713924-01 1.477744-01
4.229677-01 1.576013-01
3.656290-01 1.883505-01
3.089484-01 2.316588-01
2.620199-01 2.462117-01
2.201635-01 2.375166-01
1.825061-01 2.178229-01
1.486301-01 1.908435-01
1.179197-01 1.586939-01
9.086817-02 1.251530-01
5.758541-02 7.705113-02

Oy Be
4 in.

0.64000 BB 0.05277
0.000000 00 2.631257 00 1.222777 00 0.000000 00 3.345043-01

0.64000 BB 0.05277
0.000000 00 5.043139 00 2.027793 00 3.485032 00 9.581275-01

0.64000 BB 0.05277
0.000000 00 3.152757 00 1.120297 00 4.999929 00 4.139351-01

0.64000 BB 0.05277
0.000000 00 5.579618 00 1.584040 00 1.456607 01 6.240608-01

0.64000 BB 0.05277
0.000000 00 6.165418 00 7.820520-01 2.604467 01 8.912453-01

0.64000 BB 0.05277
0.000000 00 4.386485 00 -8.417514-01 1.072374 02 3.331632 00

SEP 05 58

4.100000-01 3.700000 01 1.022230 00 1.000000-05 -2.518296-06 0.000000 00 1.093565 01 1.117876 01

SEP 05 58

7.000000-01 5.716666-02 0.005176 00 4.289270-01 3.273113-01 6.318985-01 4.018973-01 6.893626-01
1.400000 00 4.001666-01 0.005176 00 4.246053-01 3.227649-01 6.234834-01 3.966460-01 6.803842-01
2.100000 00 1.086166 00 0.005176 00 4.155840-01 3.129584-01 6.055424-01 3.855230-01 6.615788-01
2.800000 00 2.115166 00 0.005176 00 4.018656-01 2.973740-01 5.774106-01 3.682623-01 6.327718-01
Oy 3.500000 00 3.487166 00 0.005176 00 3.838144-01 2.765709-01 5.398986-01 3.452693-01 5.945641-01
4.200000 00 5.202166 00 0.005176 00 3.615350-01 2.477826-01 4.895115-01 3.152372-01 5.460821-01
4.900000 00 7.260166 00 0.005176 00 3.373324-01 2.167680-01 4.339538-01 2.816011-01 4.911265-01
5.770000 00 1.240850 01 0.005176 00 3.039478-01 1.586082-01 3.383087-01 2.282890-01 4.115094-01
7.000000 00 2.514999 01 0.005110 00 0.000000 00 6.478995-02 2.066848-01 1.482668-01 2.859944-01
8.300000 00 3.813116 01 0.005110 00 0.000000 00 4.125434-02 1.220606-01 8.748789-02 1.761450-01
9.600000 00 5.215816 01 0.005110 00 0.000000 00 2.525240-02 8.301344-02 5.770214-02 1.158802-01
Be 1.090000 01 6.838216 01 0.005110 00 0.000000 00 1.619354-02 5.690630-02 3.838383-02 7.686260-02
1.220000 01 8.680316 01 0.005110 00 0.000000 00 1.075246-02 3.974093-02 2.606371-02 5.160759-02
1.350000 01 1.074211 02 0.005110 00 0.000000 00 7.335621-03 2.790357-02 1.766541-02 3.420731-02
1.480000 01 1.302361 02 0.005110 00 0.000000 00 5.114228-03 1.948726-02 1.175398-02 2.194453-02
1.593000 01 1.334471 02 0.005110 00 0.000000 00 3.696524-03 1.311612-02 7.083818-03 1.213279-02

SEP 05 58

5.756898-01 1.993799-01
5.687340-01 2.017785-01
5.545874-01 2.070956-01
5.334395-01 2.161751-01
5.056896-01 2.288600-01
4.719681-01 2.501330-01
4.332281-01 2.765920-01
3.842720-01 3.368951-01
3.102195-01 4.353208-01
2.278021-01 4.766083-01
1.638896-01 4.441854-01
1.166460-01 3.839572-01
8.162519-02 3.092246-01
5.516789-02 2.295049-01
3.504679-02 1.524384-01
1.870859-02 7.914673-02

Oy Fe
l in.

0.640000 BB	0.05277							
0.000000 00	9.108039 00	3.160516 00	4.015430-01	2.186376 00				
0.640000 BB	0.05277							
0.000000 00	1.780996 01	5.349484 00	3.958710 00	4.684359 00				
0.640000 BB	0.05277							
0.000000 00	1.149785 01	3.187463 00	3.622909 00	3.136515 00				
0.640000 BB	0.05277							
0.000000 00	2.128580 01	4.996049 00	8.192045 00	5.779104 00				
0.640000 BB	0.05277							
0.000000 00	2.157811 01	3.181458 00	5.908352 00	3.911612 00				
0.640000 BB	0.05277							
0.000000 00	4.665367 00	3.490187-01	1.455517 00	5.218161-01				
								AUG 32 58
2.500000-01	1.500000 01	1.020491 00	1.000000-05	1.803040-06	0.000000 00	3.636716 01	3.711237 01	
								AUG 32 58
1.000000 00	1.666666-01	0.005176 00	7.724892-01	6.456082-01	1.230720 00	7.812043-01	1.346464 00	
2.000000 00	1.166666 00	0.005176 00	7.529910-01	6.292059-01	1.200042 00	7.619522-01	1.313440 00	
3.000000 00	3.166666 00	0.005176 00	7.132632-01	5.952632-01	1.136956 00	7.224744-01	1.246186 00	
4.000000 00	6.166667 00	0.005176 00	6.548069-01	5.447656-01	1.043714 00	6.642954-01	1.147484 00	
5.000000 00	1.016666 01	0.005176 00	5.805208-01	4.803293-01	9.250070-01	5.903212-01	1.022213 00	
Oy 6.000000 00	1.516666 01	0.005176 00	4.929072-01	4.026986-01	7.844075-01	5.033951-01	8.759257-01	
7.000000 00	2.116666 01	0.005176 00	3.976951-01	3.187801-01	6.319378-01	4.090994-01	7.170332-01	
7.880000 00	2.438397 01	0.005176 00	2.980515-01	2.225558-01	4.691913-01	3.117392-01	5.575142-01	
8.200000 00	1.034401 01	0.005110 00	0.000000 00	1.523261-01	3.559901-01	2.457902-01	4.536078-01	
8.500000 00	1.045949 01	0.005110 00	0.000000 00	1.267933-01	3.087311-01	2.165765-01	4.068479-01	
8.800000 00	1.122449 01	0.005110 00	0.000000 00	1.085315-01	2.714369-01	1.924438-01	3.660323-01	
9.100000 00	1.201649 01	0.005110 00	0.000000 00	9.421356-02	2.396546-01	1.710757-01	3.282999-01	
Fe 9.400000 00	1.283549 01	0.005110 00	0.000000 00	8.256455-02	2.118114-01	1.517219-01	2.928706-01	
9.700000 00	1.368149 01	0.005110 00	0.000000 00	7.279783-02	1.868037-01	1.338156-01	2.590520-01	
1.000000 01	1.455449 01	0.005110 00	0.000000 00	6.438456-02	1.636284-01	1.167471-01	2.258750-01	
1.042000 01	2.189433 01	0.005110 00	0.000000 00	5.545549-02	1.352290-01	9.493874-02	1.818212-01	
								AUG 32 58
1.040493 00	1.605445-01							
1.013122 00	1.562664-01							
9.582521-01	1.477814-01							
8.780996-01	1.354454-01							
7.765401-01	1.198154-01							
6.571862-01	1.015709-01							
5.268212-01	8.154543-02							
3.934130-01	6.166921-02							
3.094408-01	4.977032-02							
2.783223-01	4.524350-02							
2.510125-01	4.094438-02							
2.255826-01	3.671403-02							
2.015138-01	3.254303-02							
1.783506-01	2.841093-02							
1.554393-01	2.425273-02							
1.246825-01	1.843468-02							
								AUG 32 58
2.500000-01	1.500000 01	1.020491 00	1.000000-05	1.803040-06	0.000000 00	3.636716 01	3.711237 01	

Oy Fe 0.64000 BB 0.05277
2 in. 0.000000 00 6.992283 00 2.587708 00 5.548671-01 1.241596 00

0.64000 BB 0.05277
0.000000 00 1.367119 01 4.278775 00 6.053549 00 3.040044 00

0.64000 BB 0.05277
0.000000 00 8.825004 00 2.476705 00 6.105157 00 2.249779 00

0.64000 BB 0.05277
0.000000 00 1.653276 01 3.718529 00 1.578917 01 4.892097 00

0.64000 BB 0.05277
0.000000 00 1.694042 01 2.348357 00 1.230994 01 3.628387 00

0.64000 BB 0.05277
0.000000 00 3.772319 00 2.192769-01 3.611659 00 5.700719-01

2.600000-01 1.700000 01 1.019483 00 1.000000-05 -3.263354-06 0.000000 00 2.814387 01 SEP 03 58 2.869219 01 SEP 03 58

9.000000-01 1.214999-01 0.005176 00 6.828451-01 5.613256-01 1.077862 00 6.875094-01 1.199767 00
1.800000 00 8.505000-01 0.005176 00 6.689448-01 5.494722-01 1.055822 00 6.737583-01 1.176425 00
2.700000 00 2.308499 00 0.005176 00 6.404047-01 5.246718-01 1.010076 00 6.453227-01 1.128564 00
3.600000 00 4.495500 00 0.005176 00 5.979530-01 4.871885-01 9.415482-01 6.029233-01 1.057680 00
Oy 4.500000 00 7.411499 00 0.005176 00 5.434733-01 4.389050-01 8.533644-01 5.484245-01 9.668131-01
5.400000 00 1.105649 01 0.005176 00 4.778271-01 3.786427-01 7.458759-01 4.828585-01 8.589778-01
6.300000 00 1.543049 01 0.005176 00 4.061528-01 3.139585-01 6.289460-01 4.112280-01 7.407034-01
7.350000 00 2.450306 01 0.005176 00 3.161772-01 2.220906-01 4.761849-01 3.219330-01 6.004415-01
8.000000 00 1.915577 01 0.005110 00 0.000000 00 1.340436-01 3.332824-01 2.403071-01 4.783446-01
8.600000 00 2.067599 01 0.005110 00 0.000000 00 9.441440-02 2.575562-01 1.937783-01 4.050450-01
9.200000 00 2.377199 01 0.005110 00 0.000000 00 7.267875-02 2.081955-01 1.607322-01 3.467860-01
9.800000 00 2.708399 01 0.005110 00 0.000000 00 5.754935-02 1.700652-01 1.337022-01 2.955331-01
Fe 1.040000 01 3.061199 01 0.005110 00 0.000000 00 4.621359-02 1.392094-01 1.108076-01 2.494787-01
1.100000 01 3.435599 01 0.005110 00 0.000000 00 3.739724-02 1.135914-01 9.102822-02 2.075977-01
1.160000 01 3.831599 01 0.005110 00 0.000000 00 3.039641-02 9.206707-02 7.383184-02 1.695637-01
1.242000 01 5.916141 01 0.005110 00 0.000000 00 2.367616-02 6.819180-02 5.367524-02 1.222280-01

9.259618-01 1.438174-01
9.065868-01 1.408455-01
8.675312-01 1.349523-01
8.100367-01 1.263702-01
7.365464-01 1.154222-01
6.490259-01 1.027090-01
5.526392-01 8.868629-02
4.370483-01 7.337201-02
3.431346-01 6.222167-02
2.949124-01 5.584354-02
2.554237-01 4.946672-02
2.197221-01 4.307010-02
1.868444-01 3.672523-02
1.562913-01 3.046586-02
1.280354-01 2.448376-02
9.206355-02 1.651469-02

Oy Fe
4 in

0.64000 BB 0.05277
0.000000 00 5.785855 00 2.241491 00 7.201699-01 4.943619-01

0.64000 BB 0.05277
0.000000 00 1.130117 01 3.663065 00 8.852971 00 1.509513 00

0.64000 BB 0.05277
0.000000 00 7.294223 00 2.071827 00 1.018826 01 1.364845 00

0.64000 BB 0.05277
0.000000 00 1.396572 01 2.914091 00 3.441121 01 4.372417 00

0.64000 BB 0.05277
0.000000 00 1.478174 01 1.761955 00 3.174484 01 4.028045 00

0.64000 BB 0.05277
0.000000 00 3.535541 00 7.420235-02 1.354550 01 9.426819-01

SEP 03 58

2.700000-01 2.100000 01 1.042477 00 1.000000-05 -1.177191-06 0.000000 00 2.342760 01 2.442273 01

SEP 03 58

9.000000-01	1.214999-01	0.005176 00	6.114292-01	5.002853-01	9.663096-01	6.203982-01	1.111346 00
1.800000 00	8.505000-01	0.005176 00	5.996262-01	4.897438-01	9.468417-01	6.082976-01	1.091133 00
2.700000 00	2.308499 00	0.005176 00	5.753817-01	4.676779-01	9.063910-01	5.832428-01	1.049653 00
3.600000 00	4.495500 00	0.005176 00	5.392476-01	4.341591-01	8.455074-01	5.457380-01	9.881404-01
4.500000 00	7.411499 00	0.005176 00	4.925382-01	3.902146-01	7.661694-01	4.970874-01	9.090078-01
5.400000 00	1.105649 01	0.005176 00	4.362738-01	3.350850-01	6.687871-01	4.382483-01	8.152080-01
6.300000 00	1.543049 01	0.005176 00	3.736291-01	2.727787-01	5.591227-01	3.724017-01	7.114208-01
7.010000 00	1.573751 01	0.005176 00	3.082749-01	1.980773-01	4.377660-01	3.032149-01	6.098205-01
8.300000 00	3.788581 01	0.005110 00	0.000000 00	1.127694-01	2.947253-01	2.218151-01	4.955101-01
9.600000 00	5.215816 01	0.005110 00	0.000000 00	5.811320-02	1.825273-01	1.512552-01	3.834931-01
1.090000 01	6.838216 01	0.005110 00	0.000000 00	3.722591-02	1.248783-01	1.092301-01	3.011491-01
1.220000 01	8.680316 01	0.005110 00	0.000000 00	2.413207-02	8.632416-02	7.915772-02	2.347237-01
1.350000 01	1.074211 02	0.005110 00	0.000000 00	1.601433-02	6.015429-02	5.726727-02	1.801375-01
1.480000 01	1.302361 02	0.005110 00	0.000000 00	1.079856-02	4.180676-02	4.083854-02	1.342573-01
1.610000 01	1.552481 02	0.005110 00	0.000000 00	7.350473-03	2.860743-02	2.824844-02	9.541115-02
1.717000 01	1.480979 02	0.005110 00	0.000000 00	5.088234-03	1.866950-02	1.809239-02	6.100568-02

SEP 03 58

8.687229-01	1.375639-01
8.521122-01	1.352612-01
8.186533-01	1.307404-01
7.694376-01	1.242735-01
7.064188-01	1.161937-01
6.318363-01	1.074212-01
5.493336-01	9.846721-02
4.692325-01	9.241597-02
3.905165-01	8.874773-02
3.178362-01	8.154958-02
2.591448-01	7.125052-02
2.083203-01	6.013403-02
1.638340-01	4.866376-02
1.243243-01	3.714384-02
8.933913-02	2.611320-02
5.715526-02	1.544362-02

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2 in.

0.64000 BB 0.05277
0.000000 00 6.226112 00 2.359423 00 5.095789-01 1.123182 00

0.64000 BB 0.05277
0.000000 00 1.215034 01 3.903032 00 5.567825 00 2.760823 00

0.64000 BB 0.05277
0.000000 00 7.813456 00 2.252713 00 5.615857 00 2.044598 00

0.64000 BB 0.05277
0.000000 00 1.454070 01 3.364959 00 1.450248 01 4.445702 00

0.64000 BB 0.05277
0.000000 00 1.480444 01 2.120737 00 1.130092 01 3.297687 00

0.64000 BB 0.05277
0.000000 00 3.304012 00 1.992744-01 3.334035 00 5.214358-01

SEP 03 58
2.300000-01 1.800000 01 9.978327-01 1.000000-05 -1.594424-06 0.000000 00 2.513697 01 2.508249 01
SEP 03 58

9.000000-01	1.214999-01	0.005176 00	6.620703-01	5.355804-01	1.028032 00	6.538356-01	1.135347 00
1.800000 00	8.505000-01	0.005176 00	6.479479-01	5.236783-01	1.005968 00	6.401311-01	1.112249 00
2.700000 00	2.308499 00	0.005176 00	6.189589-01	4.988001-01	9.601895-01	6.117954-01	1.064888 00
3.600000 00	4.495500 00	0.005176 00	5.759053-01	4.612802-01	8.917257-01	5.696080-01	9.948419-01
4.500000 00	7.411499 00	0.005176 00	5.206396-01	4.127604-01	8.035034-01	5.153800-01	9.051626-01
5.400000 00	1.105649 01	0.005176 00	4.544299-01	3.527634-01	6.966887-01	4.505136-01	7.992425-01
6.300000 00	1.543049 01	0.005176 00	3.817176-01	2.870482-01	5.792864-01	3.792715-01	6.830598-01
7.140000 00	1.899122 01	0.005176 00	3.008962-01	2.049819-01	4.437414-01	3.006094-01	5.608112-01
7.700000 00	1.542310 01	0.005110 00	0.000000 00	1.317078-01	3.257265-01	2.337679-01	4.622147-01
8.300000 00	1.920899 01	0.005110 00	0.000000 00	9.467892-02	2.554957-01	1.909223-01	3.954579-01
8.900000 00	2.219699 01	0.005110 00	0.000000 00	7.202869-02	2.051965-01	1.577000-01	3.379564-01
9.500000 00	2.540099 01	0.005110 00	0.000000 00	5.664903-02	1.669866-01	1.308867-01	2.878245-01
1.010000 01	2.882099 01	0.005110 00	0.000000 00	4.527183-02	1.363560-01	1.083503-01	2.430244-01
1.070000 01	3.245699 01	0.005110 00	0.000000 00	3.649556-02	1.111035-01	8.999752-02	2.024656-01
1.130000 01	3.630899 01	0.005110 00	0.000000 00	2.958331-02	9.014065-02	7.238236-02	1.660933-01
1.222000 01	6.364933 01	0.005110 00	0.000000 00	2.263839-02	6.571499-02	5.184596-02	1.181106-01

SEP 03 58

8.728897-01	1.361962-01
8.537787-01	1.332601-01
8.152749-01	1.274368-01
7.586762-01	1.189679-01
6.864045-01	1.082016-01
6.007137-01	9.574562-02
5.063116-01	8.212139-02
4.060134-01	6.890620-02
3.307906-01	6.011972-02
2.870467-01	5.438379-02
2.483138-01	4.823782-02
2.135884-01	4.207339-02
1.817615-01	3.596619-02
1.522956-01	2.994496-02
1.253817-01	2.425237-02
8.898112-02	1.616539-02

Oy

Ni

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Oy Ni
4 in.

0.64000 88 0.05277
0.000000 00 4.765894 00 1.914449 00 6.167400-01 4.182401-01

0.64000 88 0.05277
0.000000 00 9.277597 00 3.136963 00 7.600844 00 1.282111 00

0.64000 88 0.05277
0.000000 00 5.948921 00 1.768591 00 8.749958 00 1.162262 00

0.64000 88 0.05277
0.000000 00 1.125387 01 2.477032 00 2.950571 01 3.732019 00

0.64000 88 0.05277
0.000000 00 1.178260 01 1.495570 00 2.720268 01 3.440971 00

0.64000 88 0.05277
0.000000 00 2.831652 00 6.817423-02 1.170773 01 8.125839-01

SEP 05 58

	2.400000-01	2.100000 01	1.004613 00	1.000000-05	5.066395-07	0.000000 00	1.939247 01	1.949193 01
								SEP 05 58
	8.000000-01	8.533333-02	0.005176 00	5.813335-01	4.623604-01	8.924296-01	5.702144-01	1.013371 00
	1.600000 00	5.973333-01	0.005176 00	5.718092-01	4.541131-01	8.771825-01	5.607823-01	9.977390-01
	2.400000 00	1.621333 00	0.005176 00	5.520902-01	4.366565-01	8.452095-01	5.410927-01	9.654347-01
	3.200000 00	3.157333 00	0.005176 00	5.224494-01	4.098539-01	7.966414-01	5.113684-01	9.171522-01
Oy	4.000000 00	5.205333 00	0.005176 00	4.840611-01	3.750054-01	7.334851-01	4.727489-01	8.546655-01
	4.800000 00	7.765333 00	0.005176 00	4.369185-01	3.300714-01	6.542860-01	4.251630-01	7.793996-01
	5.600000 00	1.083733 01	0.005176 00	3.853245-01	2.822437-01	5.680802-01	3.728987-01	6.961192-01
	6.680000 00	2.041027 01	0.005176 00	3.120109-01	2.027137-01	4.372030-01	2.980883-01	5.857806-01
	8.000000 00	3.565372 01	0.005110 00	0.000000 00	1.021130-01	2.722595-01	2.043751-01	4.534814-01
	9.300000 00	4.872616 01	0.005110 00	0.000000 00	5.290223-02	1.653551-01	1.371038-01	3.468959-01
	1.059999 01	6.444316 01	0.005110 00	0.000000 00	3.362551-02	1.125998-01	9.846490-02	2.710828-01
	1.190000 01	8.235716 01	0.005110 00	0.000000 00	2.159746-02	7.727177-02	7.092057-02	2.103135-01
Ni	1.320000 01	1.024681 02	0.005110 00	0.000000 00	1.422848-02	5.352638-02	5.103998-02	1.607301-01
	1.450000 01	1.247761 02	0.005110 00	0.000000 00	9.534239-03	3.699976-02	3.621869-02	1.192903-01
	1.580000 01	1.492811 02	0.005110 00	0.000000 00	6.452589-03	2.517509-02	2.491381-02	8.432954-02
	1.684000 01	1.385449 02	0.005110 00	0.000000 00	4.460995-03	1.640759-02	1.593428-02	5.384370-02

SEP 05 58

7.877621-01	1.261070-01
7.749516-01	1.243119-01
7.489930-01	1.207805-01
7.105441-01	1.156961-01
6.610329-01	1.092122-01
6.015852-01	1.020414-01
5.356338-01	9.419286-02
4.490509-01	8.694206-02
3.562144-01	8.159290-02
2.871626-01	7.444108-02
2.331286-01	6.473298-02
1.866520-01	5.441509-02
1.462427-01	4.386363-02
1.105408-01	3.333889-02
7.902641-02	2.329943-02
5.048572-02	1.374999-02

Pu 0.64000 BB 0.04620
0.000000 00 5.734856 00 2.717988 00

0.64000 BB 0.04620
0.000000 00 1.032661 01 4.714424 00

0.64000 BB 0.04620
0.000000 00 5.995104 00 2.619155 00

0.64000 BB 0.04620
0.000000 00 8.546153 00 3.285966 00

0.64000 BB 0.04620
0.000000 00 7.652648 00 2.083353 00

0.64000 BB 0.04620
0.000000 00 1.548193 00 2.865190-01

JUL 30 58

3.200000-01	2.100000 01	1.000052 00	1.000000-05	2.052419-07	2.445965 01	2.445839 01	7.434521 01

JUL 30 58

4.000000-01	1.066666-02	0.004642 00	1.145388 00	8.226597-01	1.450155 00	8.206795-01	1.090226 00
8.000000-01	7.466666-02	0.004642 00	1.137881 00	8.175140-01	1.440979 00	8.154222-01	1.082973 00
1.200000 00	2.026666-01	0.004642 00	1.121793 00	8.063065-01	1.421081 00	8.040774-01	1.067523 00
1.600000 00	3.946666-01	0.004642 00	1.096944 00	7.888622-01	1.390174 00	7.864954-01	1.043727 00
2.000000 00	6.506666-01	0.004642 00	1.063472 00	7.652620-01	1.348408 00	7.627656-01	1.011726 00
2.400000 00	9.706666-01	0.004642 00	1.021731 00	7.357530-01	1.296219 00	7.331355-01	9.718566-01
2.800000 00	1.354666 00	0.004642 00	9.722367-01	7.007081-01	1.234263 00	6.979731-01	9.246031-01
3.200000 00	1.802666 00	0.004642 00	9.156326-01	6.605977-01	1.163363 00	6.577407-01	8.705715-01
3.600000 00	2.314666 00	0.004642 00	8.526664-01	6.159702-01	1.084478 00	6.129760-01	8.104633-01
4.000000 00	2.890666 00	0.004642 00	7.841659-01	5.674352-01	9.986759-01	5.642761-01	7.450552-01
4.400000 00	3.530666 00	0.004642 00	7.110189-01	5.156493-01	9.071028-01	5.122829-01	6.751801-01
4.800000 00	4.234666 00	0.004642 00	6.341549-01	4.613028-01	8.109651-01	4.576705-01	6.017095-01
5.200000 00	5.002666 00	0.004642 00	5.545177-01	4.051016-01	7.114959-01	4.011273-01	5.255321-01
5.600000 00	5.834666 00	0.004642 00	4.728566-01	3.475497-01	6.095982-01	3.431713-01	4.473779-01
6.000000 00	6.730666 00	0.004642 00	3.862142-01	2.864984-01	5.014563-01	2.816209-01	3.643562-01
6.260000 00	4.885729 00	0.004642 00	3.030935-01	2.284007-01	3.982786-01	2.226966-01	2.843761-01

JUL 30 58

8.110768-01	1.329688-01
8.051826-01	1.319369-01
7.979466-01	1.298316-01
7.743457-01	1.266591-01
7.495271-01	1.224485-01
7.187593-01	1.172459-01
6.824090-01	1.111119-01
6.409222-01	1.041189-01
5.948087-01	9.634893-02
5.446276-01	8.789019-02
4.909715-01	7.883480-02
4.344528-01	6.927577-02
3.756802-01	5.929902-02
3.152735-01	4.900574-02
2.532972-01	3.841690-02
1.890527-01	2.749251-02

Pu Oy 0.64000 BB 0.04620
0.000000 00 1.847309 00 9.273894-01 0.000000 00 9.273894-01 5.130212 00 2.395451 00

0.64000 BB 0.04620
0.000000 00 3.331398 00 1.581415 00 0.000000 00 1.581415 00 9.969261 00 4.362212 00

0.64000 BB 0.04620
0.000000 00 1.939190 00 8.529291-01 0.000000 00 8.529290-01 6.378363 00 2.667247 00

0.64000 BB 0.04620
0.000000 00 2.880454 00 1.016732 00 0.000000 00 1.016732 00 1.128493 01 4.138547 00

0.64000 BB 0.04620
0.000000 00 2.725306 00 6.315275-01 0.000000 00 6.315275-01 1.113283 01 2.594761 00

0.64000 BB 0.04620
0.000000 00 5.656342-01 8.323994-02 0.000000 00 8.323993-02 2.354131 00 3.237335-01

JUL 30 58
6.000000 02 2.500000 01 1.001036 00 1.000000-05 2.447764-07 2.802199 01 2.799302 01 9.740240 01

JUL 30 58
5.000000-01 2.083333-02 0.005346 00 1.896539 00 1.089593 00 1.943869 00 1.120514 00 1.580802 00
1.000000 00 1.458333-01 0.005346 00 1.867644 00 1.072426 00 1.913950 00 1.103539 00 1.557872 00
1.500000 00 3.958333-01 0.005346 00 1.803371 00 1.033518 00 1.845820 00 1.065398 00 1.507938 00
2.000000 00 7.708333-01 0.005346 00 1.701434 00 9.704473-01 1.735975 00 1.004639 00 1.430488 00
2.500000 00 1.270833 00 0.005346 00 1.574402 00 8.924799-01 1.599815 00 9.289556-01 1.333093 00
3.155000 00 2.629991 00 0.005346 00 1.370126 00 7.611062-01 1.373890 00 8.066916-01 1.184640 00
3.170000 00 7.501061-02 0.004642 00 0.000000 00 6.652890-01 1.211153 00 7.205835-01 1.085487 00
3.185000 00 7.572386-02 0.004642 00 0.000000 00 6.629924-01 1.207646 00 7.190892-01 1.084836 00
3.500000 00 1.760940 00 0.005434 00 6.664179-01 6.235041-01 1.140376 00 6.837851-01 1.044914 00
4.000000 00 3.520833 00 0.005434 00 5.935886-01 5.428970-01 9.999323-01 6.069553-01 9.486115-01
4.500000 00 4.520833 00 0.005434 00 5.180504-01 4.668781-01 8.637728-01 5.287207-01 8.393132-01
5.000000 00 5.645833 00 0.005434 00 4.503442-01 4.029359-01 7.471546-01 4.595805-01 7.360905-01
5.500000 00 6.895833 00 0.005434 00 3.869811-01 3.451708-01 6.407818-01 3.954392-01 6.368095-01
6.000000 00 8.270833 00 0.005434 00 3.265166-01 2.915878-01 5.413874-01 3.347761-01 5.404253-01
6.500000 00 9.770833 00 0.005434 00 2.711266-01 2.430853-01 4.511420-01 2.793425-01 4.511513-01
7.354000 00 2.051483 01 0.005434 00 1.893868-01 1.738394-01 3.210371-01 1.983563-01 3.172458-01

JUL 30 58
1.705984 00 1.960406-01
1.187681 00 1.928900-01
1.148854 00 1.863085-01
1.089480 00 1.763294-01
1.014704 00 1.637477-01
9.024015-01 1.449577-01
8.284156-01 1.326362-01
8.281766-01 1.326029-01
7.975986-01 1.272604-01
7.229548-01 1.144319-01
6.373529-01 1.000183-01
5.558427-01 8.648127-02
4.770759-01 7.353264-02
3.998752-01 6.080564-02
3.285531-01 4.911926-02
2.202454-01 3.119913-02

Pu Tu 5 in.

0.64000 BB 0.04620
0.000000 00 9.325048 00 5.193941 00 5.044852 00 8.623135-01

0.64000 BB 0.04620
0.000000 00 1.666215 01 8.853230 00 1.248797 01 1.554521 00

0.64000 BB 0.04620
0.000000 00 9.613114 00 4.562197 00 1.714786 01 1.915699 00

0.64000 BB 0.04620
0.000000 00 1.456356 01 4.911908 00 7.260686 01 6.784629 00

0.64000 BB 0.04620
0.000000 00 1.678321 01 2.073465 00 2.053799 02 1.069672 01

0.64000 BB 0.04620
0.000000 00 3.963714 00 1.070032-01 6.521713 01 1.922494 00

JUL 30 58

3.300000-01	3.400000 01	1.016686 00	1.000000-05	-3.230611-06	5.150192 01	5.066052 01	5.383868 02

JUL 30 58

6.000000-01	3.599999-02	0.004642 00	3.554162 00	2.336064 00	4.140239 00	2.417056 00	3.581820 00
1.200000 00	2.520000-01	0.004642 00	3.501053 00	2.295838 00	4.069092 00	2.377466 00	3.531116 00
1.800000 00	6.840000-01	0.004642 00	3.386468 00	2.207340 00	3.913370 00	2.291538 00	3.423220 00
2.400000 00	1.331999 00	0.004642 00	3.210293 00	2.069069 00	3.670825 00	2.158753 00	3.259309 00
3.000000 00	2.196000 00	0.004642 00	2.975622 00	1.881897 00	3.343358 00	1.980967 00	3.043683 00
3.600000 00	3.275999 00	0.004642 00	2.687842 00	1.647285 00	2.933966 00	1.761287 00	2.783576 00
4.200000 00	4.571999 00	0.004642 00	2.354049 00	1.369145 00	2.449966 00	1.504493 00	2.486870 00
4.560000 00	3.455135 00	0.004642 00	2.025754 00	1.072429 00	1.940658 00	1.247801 00	2.219882 00
6.000000 00	2.019686 01	0.004730 00	1.238097-01	6.418732-01	1.173932 00	8.444383-01	1.762891 00
7.500000 00	3.431250 01	0.004730 00	5.507356-02	2.807279-01	5.217358-01	4.573188-01	1.201629 00
9.000000 00	5.118750 01	0.004730 00	3.118304-02	1.558669-01	2.974191-01	2.856233-01	8.397869-01
1.050000 01	7.143750 01	0.004730 00	1.750621-02	8.673146-02	1.664464-01	1.785866-01	5.892449-01
1.200000 01	9.506250 01	0.004730 00	1.046697-02	5.139473-02	9.943450-02	1.150994-01	4.121129-01
1.350000 01	1.220625 02	0.004730 00	6.356868-03	3.106011-02	6.021715-02	7.428275-02	2.825952-01
1.500000 01	1.524375 02	0.004730 00	3.881076-03	1.894817-02	3.661683-02	4.725129-02	1.861066-01
1.624000 01	1.513497 02	0.004730 00	2.329174-03	1.149717-02	2.178918-02	2.843775-02	1.105657-01

JUL 30 58

3.317213 00	5.752311-01
3.282913 00	5.704919-01
3.212263 00	5.609299-01
3.108069 00	5.472252-01
2.975360 00	5.304173-01
2.823238 00	5.127353-01
2.659310 00	4.957668-01
2.539405 00	4.882515-01
2.294576 00	4.680214-01
1.855886 00	4.048169-01
1.447994 00	3.256991-01
1.102344 00	2.538675-01
8.171712-01	1.895847-01
5.775681-01	1.332771-01
3.780660-01	8.494739-02
2.077401-01	4.326399-02

TABLES III

CRITICAL EXPERIMENTS

B. Clean Critical Experiments

1. Fast clean systems.

These systems were abstracted from LA safety measurements by Hansen.

Date Feb. 1958

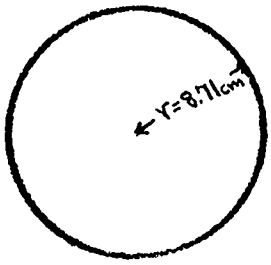
Name Godiva

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



M_c = 51.9 kg 93.9% Oy at 18.75 gm/cm³

2. Elements in each region

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	0.04511						
U-238	2	0.00245						
U-234	3	0.00045						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb. 1958

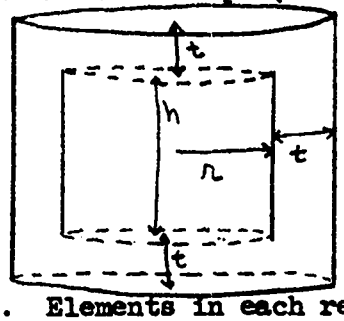
Name 16¼% Jemima

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



2. Elements in each region

$t = 3''$ Tu ; $h = 32.36$ cm ; $r = 19.05$ cm

$\rho_c = 18.75$ gm/cm^3 ($M_c = 692$ kg)

Equivalent sphere: with $\lambda_{cyl.} = 2.70''$;

$B^2 = 0.01327$ cm^{-2}; with $\lambda_{sph.} = 2.74''$;

$R_{sph} = 20.32$ cm core radius, 7.62 cm reflector thickness. This gives

$M_c = 657$ kgm ; $r_1 = 20.32$ cm, $r_2 = 27.94$ cm.

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	.00777	.00034					
U-238	2	.03971	.04721					
U-234	3	.00007						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb. 1958

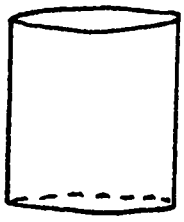
Name 37½% Jemima

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



M_c = 267 kg with height 10.04" and diameter 10.50" (ρ = 18.75 gm/cm³)

Equivalent sphere: M_c = 243 kg at 18.75 gm/cm³ → R_1 = 14.572 cm.

2. Elements in each region

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	.01814						
U-238	2	.02934						
U-234	3	.00018						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb. 1958

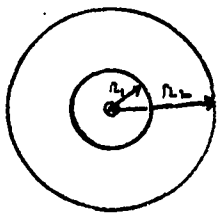
Name Oy reflected U-233

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



$0 \leq$ Void $\leq r_0 = 0.533$ cm.

$r_0 \leq$ "23" $\leq r_1 = 3.1471$ cm.

$r_1 \leq$ Oy $\leq r_2 = 7.9416$ cm.

2. Elements in each region

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-233	1		.04716					
U-238	2		.00048	.00251				
U-235	3			.04517				
U-234	4			.00045				
W	5		.00033					
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb 1958

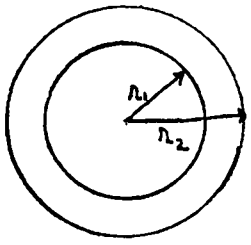
Name 0.695" Tu reflected Oy

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. **Reactor Shape (Sketch)**



M_c = 36.2 kg 93.9% Oy at 18.75 gm/cm^3

R_1 = 7.725 cm.

R_2 = 9.490 cm.

2. **Elements in each region**

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	0.04511	.000346					
U-238	2	0.00245	.047694					
U-234	3	0.00045						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. **Supplementary information** (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb. 1958

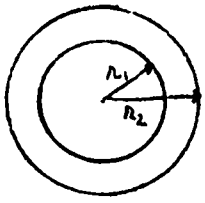
Name 1.76" Tu reflected Oy

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



M_c = 26.5 kg 93.9% Oy at 18.75 gm/cm³

r_1 = 6.962 cm.

r_2 = 11.432 cm.

2. Elements in each region

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	0.04511	.000346					
U-238	2	0.00245	.047694					
U-234	3	0.00045						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb. 1958

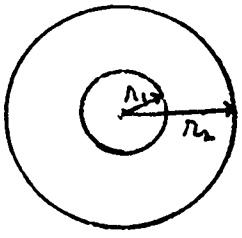
Name 3.525" Tu reflected Oy

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



M_c = 20.5 kg 93.9% Oy at 18.75 gm/cm^3

r_1 = 6.391 cm

r_2 = 15.344 cm

2. Elements in each region

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	0.04511	.000346					
U-238	2	0.00245	.017694					
U-234	3	0.00045						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb 1958

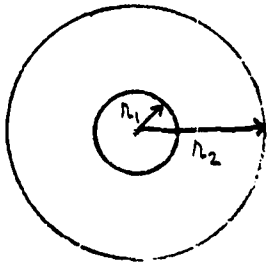
Name 3.925" Tu reflected Oy

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



M_c = 19.75 kg 93.9% Oy at 18.75 gm/cm^3

R_1 = 6.312

R_2 = 16.281

2. Elements in each region

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	0.04511	0.000346					
U-238	2	0.00245	0.047694					
U-234	3	0.00045						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date Feb 1958

Name Topsy

Laboratory LASL

Classification of data Unclass

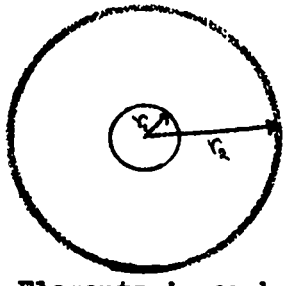
Critical Experiment Summary Sheet

1. **Reactor Shape (Sketch)**

9" Tu reflecting 17.35 kg 93.9% O_4 at 18.75 gm/cm^3.

r_1 = 6.045 cm.

r_2 = 28.905 cm.



2. **Elements in each region**

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U-235	1	0.04511	.000346					
U-238	2	0.00245	.047694					
U-234	3	0.00045						
	4							
	5							
	6							
	7							
Radius or thickness of each region								

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 6-13-58

Name G. Hansen/C.M.

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch) C refl. Oy

		Mc(kg 93.5 % Oy)	H/D ratio	Mc(Sph.)	δ(cm)	Refl. T(in)
1.	ρ(C) 1.67 gm/cc	40.1_0	1.17_2	$\underline{36.7}_5$	0.95_2	1.000
2.	ρ(Oy) 18.80 gm/cc	49.2_8	1.44_1	$\underline{42.0}_3$	0.59_7	0.500

2. Elements in each region

Sphere S_4

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density	1			2			
U-235	1	.0450			.0450			
U-238	2	.0031			.0031			
C	3		.0838			.0838		
	4							
	5							
	6							
	7							
Radius or thickness of each region		7.756	10.296		8.111	9.381		
*Material density required		12	8		12	4		

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 6-13-58

Name G. Hansen/C.M.

Laboratory LASL

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Polythene refl. Oy

	Mc(kg 93.5 % Oy)	Refl. T(in)	H/D ratio	Mc(sph.)	δ(cm)
1.	34.78	1.000	1.014	32.9_2	1.23_2
2.	46.42	.500	1.357	40.5_6	0.69_3

ρ (polythene) 0.921 gm/cc

ρ (Oy) 18.80 gm/cc

2. Elements in each region

Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density		1			2		
U-235	1	.0450			.0450			
U-238	2	.0031			.0031			
H	3		.0790			.0790		
C	4		.0395			.0395		
	5							
	6							
	7							
Radius or thickness of each region		7.477	10.017		8.016	9.286		
*Material density required		12	8		12	4		

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

TABLE III

CRITICAL EXPERIMENTS

B. Clean Critical Experiments

2. Intermediate to thermal systems.

Date 12-13-57

Name A. D. Callihan et al./C.M.

Laboratory ORNL-K343 p. 41 (p.76)

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Cylinder
31 cm long
30.48 cm dia.

$H/U^{235} = 320$

$Mc^{235} = 1.78$ kg U^{235}

Sphereize with $B^2_{cyl} = B^2_{sphere}$

$\delta = .32$ cm

2. Elements in each region

HC6 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
H	1	.0668						
O	2	.0335						
U^{235}	3	.000209						
	4							
	5							
	6							
	7							
Radius of each region (cm)		16.78						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-13-57

Name A. D Callihan/C.M.

Laboratory ORNL, K343, Pt. III, p.39

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Cylinder
34 cm long
25.4 cm dia.

$H/U^{25} = 52.9$
$M_c = 7.90$ kg U^{235}

Sphereize by $B^2_{cyl} = B^2_{sphere}$

with $\delta = .32$ cm

2. Elements in each region

HC3 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
H	1	.0665						
O	2	.0334						
U^{235}	3	.001257						
	4							
	5							
	6							
	7							
Radius of each region (cm)		14.7						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-13-57

Name A. D. Callihan, et al./C.M.

Laboratory ORNL-K343 pt. III p.65

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

$H/U^{235} = 307$
Al can

Cylinder
22.4 cm long
25.4 cm core diam.
60.96 cm refl diam.

Sphereize by

$$B^2_{\text{refl.sph.}} = B^2_{\text{bare}} = \left(\frac{\pi}{H + 2\delta}\right)^2 + \left(\frac{2.405}{R_c + d + \delta}\right)^2$$

$d = 2.88$ cm, $\delta = .32$ cm

2. Elements in each region

HC-1 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
H	1	.0662	.0669					
O	2	.0335	.0335					
U^{235}	3	.0002157						
	4							
	5							
	6							
	7							
Radius of each region (cm)		13.45	31.8					

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-13-57

Name A. D. Callihan et al./C.M.

Laboratory ORNL-K343 part III p.33

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Cylinder
44.3 cm long
38.1 cm core diam.
60.96 cm refl. diam.

$H/U^{235} = 999$

Al can

Sphereize by

$$B^2_{\text{refl. sph.}} = B^2_{\text{bare}} = \left(\frac{\pi}{H + 2\delta}\right)^2 + \left(\frac{2.405}{R_c + d + \delta}\right)$$

$d = 2.88$ cm

$\delta = .32$ cm

2. Elements in each region

HC-2 sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
H	1	.0665	.0670					
O	2	.0334	.0335					
U^{235}	3	.0000713						
	4							
	5							
	6							
	7							
Radius of each region (cm)		22.14	33.7					

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date March 5, 1958

Name J. T. Thomas/C.M.

Laboratory ORNL-1992

Classification of data UNCLASSIFIED

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Spherical Al (3S; 1.27 mm thick)
26.4 and 32.0 cm. diam.
Refl. 15 cm H_2O

U-235 93.4 &

		$\Delta k/\Delta T$
Test 1	95.14 gm/ℓ	$-1.3 \times 10^{-4} {}^{o}C^{-1}$
Test 2	50.29 gm/ℓ	$-5.5 \times 10^{-5} {}^{o}C^{-1}$
Test 3	125.18 gm/ℓ	

2. Elements in each region

		1			2			3 (bare)
Region		1	2	3	1	2	3	... 1
Element		H/U^{235} = 268.8 27.5°C			H/U^{235} =515.1 27.0°C			H/U^{235} -203.5 27°C
Name	Vol. fraction* or atomic density							
H	1	.06548		.0668	.06632		.0668	.0652
O	2	.0328		.0334	.0332		.0334	.0326
U-235	3	.0002436			.0001288			.000320
U-238	4							
Al	5		.06			.06		
	6							
	7							
Radius or thickness of each region		13.2	13.327	28.327	16.0	16.127	31.27	16.0

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date March 5, 1958

Name J. T. Thomas/C.M.

Laboratory ORNL-1992

Classification of data UNCLASSIFIED

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Spherical Al (3S;1.27 mm thick)

26.4 and 32.0 cm diam.

Refl. 15 cm H_2O

U-233 98.7 %

	$\Delta k/\Delta T^{\circ}C$
Test 1 61.34 gm/ℓ	-1.4×10^{-4}
Test 2 38.75 gm/ℓ	-6.7×10^{-5}
Test 3 67.37 gm/ℓ	

Note: $\eta = 2.31$ if

η(U-235) = 2.08

2. Elements in each region

		1			2			3 (bare)
Region		1	2	3	1	2	3	... 1
Element		H/U^{233} = 418.3 32°C	1		H/U^{233} =663.1 26.3°C	2		H/U^{233} =381.0 27°C
Name	Vol. fraction* or atomic density							
H	1	.0663		.0668	.0664		.0668	.06626
O	2	.0332		.0334	.0332		.0334	.0332
U-233	98.7% 3	.0001584			.0001001			.0001739
U-238	4	—						
Al	(35) 5		.060			.060		
	6							
	7							
Radius or thickness of each region		13.2	13.327	28.327	16.0	16.127	31.127	16.0

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 3-27-58

Name J. K. Fox et al./C.M.

Laboratory ORNL-2367 p. 24

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

1) Cylinder in Al to sphere: $B^2_{cyl} = B^2_{sphere}$ 16.4 kg U^{235}

2) Sphere - ∞ refl. H_2O 3.2 kg U^{235}
Al shell

2. Elements in each region

Reactor		1	2	3	4	5	6	...
Element		cyl. H/U = 27.1	sphere core Refl. H/U = 47.3					
Name	Vol. fraction* or atomic density							
U^{235}	1	.002122	.001296					
H	2	.0575	.0613	.0670				
O	3	.02875	.0306	.0335				
	4							
	5							
	6							
	7							
Radius or thickness of each region		11.55	11.43	~ 40				

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-5-57

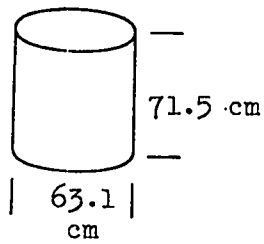
Name R. N. Olcott/ C.M.

Laboratory (LA)- NSE1, 327-341 ('56)

Classification of data unclassified

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



$D/U^{235} = 230$

$\rho(U^{35}) = .1094$ gm/cc $M_c = 21.6$ kg.

$$B^2 = \left(\frac{2.405}{31.55 + 3.9}\right)^2 + \left(\frac{\pi}{71.11 + 7.8}\right)^2 = .006184$$

$R_{sph} = 36.05$ Sphere

$\rho(D_2O) = 1.11$

2. Elements in each region

Calc.No. DC1 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
D	1	.0670						
O	2	.0335						
U^{235}	3	.000291						
	4							
	5							
	6							
	7							
Radius of each region (cm)		36.05						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-5-57

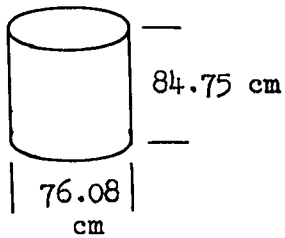
Name R. N. Olcott/ C.M.

Laboratory (IA) - N.S.E. 1, 327 (1956)

Classification of data UNCLASSIFIED

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



$D/U^{235} = 20\ 81.$

$\rho(U^{235}) = 0.0124$ gm/cc $M_c = 4.2$ kg.

$$B^2 = \left(\frac{2.405}{38.04 + 3.9}\right)^2 + \left(\frac{\pi}{84.6 + 7.8}\right)^2 = .004444$$

$R_{bare} = 43.22$ cm Sphere

2. Elements in each region

DC-2 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
D	1	.0670						
O	2	.0335						
U^{235}	3	.0000322						
	4							
	5							
	6							
	7							
Radius of each region (cm)		43.22						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-7-57

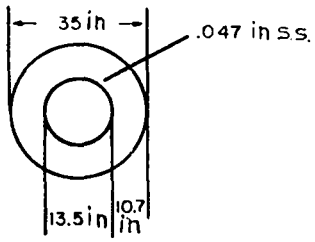
Name R. N. Olcott/C.M.

Laboratory (LA) - NSE 1, 327 (1956)

Classification of data Uncl.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



$D/U^{235} = 34.2$

$\rho(U^{235}) = 0.679$ gm/cc $M_c = 10.7$ kg

2. Elements in each region

Calc. DC-4 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
D	1	.0594		.067				
O	2	.0297		.0335				
U^{235}	3	.00174						
Fe	4		.1306					
	5							
	6							
	7							
Radius of each region (cm)		17.14	17.24	44.45				

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-7-57

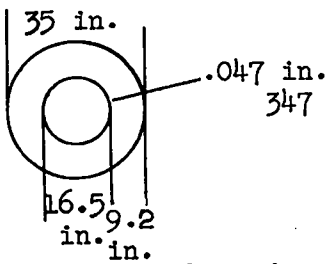
Name R. N. Olcott/ C.M.

Laboratory (LA) - N.S.E. 1, 327 (1956)

Classification of data UNCLASSIFIED

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



$D/U^{235} = 135.3$

$\rho(U^{235}) = 0.85$ gm/cc $\quad M_c = 9.2$ kg.

2. Elements in each region

DC-5 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
D	1	.067		.067				
O	2	.0335		.0335				
U^{235}	3	.000495						
Fe	4		.1306					
	5							
	6							
	7							
Radius or thickness of each region		20.96	21.06	44.45				

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-7-57

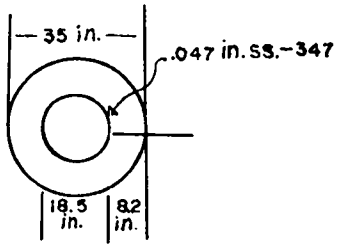
Name R. N. Olcott/ C.M.

Laboratory (IA) - NSE 1, 327 (1956)

Classification of data UNCLASSIFIED

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



$D/U^{235} = 431$

$\rho(U^{235}) = 0.060$ gm/cc $M_c = 3.2$ kg

2. Elements in each region

DC-3 Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
H	1	.0670		.0670				
O	2	.0335		.0335				
U^{235}	3	.0001554						
Fe	4		.1306					
	5							
	6							
	7							
Radius of each region (cm)		23.37	23.47	44.45				

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-7-57

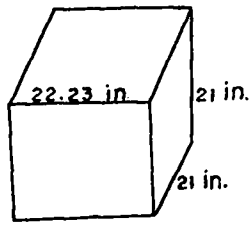
Name Coneybear / C.M.

Laboratory (ORNL) NEPA 1769 (1951)

Classification of data Unclass.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)



Be/U^{235} = 364 → 390 (vol.5,p.430 UN conf.)

Int. Conf. At. E.

M_c = 18.08 kg.

V_f: Be - .9060
Al - .0610
SS - .0004
Void - .0262

B^2 = .00874

R_c = 33.6 - 2 cm

2. Elements in each region

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U^{235}	1 10 mil.	.000308						
Al	2	.00368						
Be	3	.1121						
	4							
	5							
	6							
	7							
Radius of each region (cm)		31.6						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-7-57

Name A. D. Callihan/ C.M.

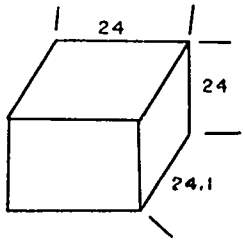
Laboratory ORNL

Classification of data Unclass.

Critical Experiment Summary Sheet

Refer: Int. Conf. ... At.E. 5, 430

1. Reactor Shape (Sketch)



Be/U^{235} = 1455 → 1560

M_c = 7.65 kg U-235

V_f: Be - .9128
Al - .0611
SS - .0003
$Void_2$ - .0242

B^2 = .007236

R_b = 36.9 - 1.5

2. Elements in each region

CA-1

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U^{235}	1 10 mil	.0000725						
Al	2	.00368						
Be	3	.1121						
	4							
	5							
	6							
	7							
Radius of each region (cm)		35.4						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 9/25/58

Name F. Kloverstrom/cm

Laboratory L.R.L. (Communication)

Classification of data Uncl.

Critical Experiment Summary Sheet

Be (ρ = 1.83gm/cc)

1. Reactor Shape (Sketch)

Approximate cube -
Base 24 x 24 in^2.

Be/U^{235} = 1360

Critical Height 18.7 in.

Foils 8 mils thick approx.

$\delta \simeq 1.5cm$

B^2 = .009170

2. Elements in each region

Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U^{235}	1 8 mil	.0000899						
Be	2	0.1222						
	3							
	4							
	5							
	6							
	7							
Radius or thickness of each region		31.31						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-10-57

Name A. J. Kirschbaum /ctn

Laboratory UCRL-4983-T p.13

Classification of data Unclassified

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Reduced $B^2 = 21.64 \times 10^{-4}$

$C/U^{25} = 675$

$\rho(C) = 1.645$ gm/cc

B - 14.4 ppm & others:

$\Sigma_a = .00102$

$R_{sph} = 67.53 - 1.92$ cm(assumed δ)

$= 65.61$

2. Elements in each region

Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
C	1	.0825						
U^{235}	2	.0001222						
B	3	1.40×10^{-6}						
	4							
	5							
	6							
	7							
Radius of each region (cm)		65.61						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-10-57

Name A. J. Kirschbaum /cm

Laboratory UCRL-4983-T p.13

Classification of data unclassified

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Reduced $B^2 = 20.68 \times 10^{-4}$

$C/U^{25} = 1379$

$\rho(C) = 1.645$ gm/cc

$R_{sph.\ bare} = 69.08$ cm - 1.92(assumed δ)

Impurities $\Sigma_a = .00102\ cm^{-1}$

2. Elements in each region

Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
C	1	.0825						
U^{235}	2	.00005982						
B	3	1.4×10^{-6}						
	4							
	5							
	6							
	7							
Radius or thickness of each region		67.18						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-10-57

Name A. J. Kirschbaum /cm

Laboratory UCRL-4983-T p.13

Classification of data Unclassified

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Reduced $B^2 = 19.04 \times 10^{-4}$ $C/U^{25} = 2586$

$\rho(C) = 1.645$ gm/cc

$R_{bare\ sph} = 72.00$ cm - 1.92 (assumed δ)

Boron and impurities: $\Sigma_a = .00102 cm^{-1}$

2. Elements in each region

Sphere

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
C	1	.0825						
U^{235}	2	.00003190						
B	3	1.40×10^{-6}						
	4							
	5							
	6							
	7							
Radius of each region (cm)		70.08						

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-7-57

Name E. L. Zimmerman/ C.M.

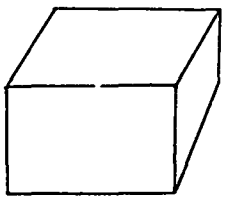
Laboratory ORNL Y-881 (1952)

Classification of data UNCLASSIFIED

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

$C/U^{235} = 1063$



Extrap.(control)
51 x 51 x 44.1 in^3 with
M_c = 52.48 kg. U-235

2. Elements in each region

CA-4 $B^2 = .001863$

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
U^{235}	1 10 mil.	.0000724?						
Al	2	.00368						
C	3	.07702						
	4							
	5							
	6							
	7							
Radius or thickness of each region		71.55						

*Material density required

6 ppm Boron; 0.854 kg 88-316 (in skewers) in core
Cadmium fraction 0.14 to 0.20 in a cell (calc. .145)
for 20 mil Cd on .0015 in In

More data given in report.

Date 8-7-58

Name G. Hansen et al./C.M.

Laboratory LA-2141 p.31

Classification of data UNCLASS.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Right cylinder
core radius (equal area) 40.56 cm
core length 81.28 cm
End reflectors (cm Be)

Ass. 8	10.16	10.16
9	10.16	0
10	0	0

Assemblies 8, 9, 10

C/Oy = 384; Mc = 32.3 kg Oy

ρ(C) = 1.50; ρ(Be) = 1.66 gm/cc

Axial escape $DB^2 = \frac{B^2}{N}\left(\frac{1}{3\sigma_{tr}}\right)$

where $\frac{1}{3\sigma_{tr}}$ is listed as an absorption cross section.

Ass. 10 $B^2 = 1.363 \times 10^{-3}$
9 0.854×10^{-3}
8 $.562 \times 10^{-3}$

2. Elements in each region

Region		1	2	3	4	5	6	...
Element		Ass. 8 (cyl.)		Ass. 9 (cyl.)		Ass. 10		
Name	Vol. fraction* or atomic density							
U-235	1	.000183		.000183		.000183		
C	2	.0752		.0752		.0752		.0782*
Al	3	.0037	.0037	.0037	.0037	.0037	.0037	.0037
Be	4		.1108		.1108		.1108	
C-DB^2x3σ_{tr}	5	.00747		.01149		.01812		
Be-DB^2x3σ_{tr}	6		.00507		.00779		.01229	
	7							
Radius or thickness of each region		40.56	53.64	40.56	57.30	40.56	68.14	73.89

*Material density required

Refl. savings $\delta \simeq 2.2$ Be refl. thickness (ρ(C) = 1.42) from study of Ass. 1-7.

Value of Be on ends assumed $\delta = 2.2\ (10.16 + 1.4)\ \frac{1.42}{1.50} - 1.9$ cm = 22.4 cm

*Second reflector C(ρ = 1.56 gm/cc)

Date 9-25-58

Name F. Kloverstrom/cm

Laboratory LRL (Communication

Classification of data Uncl.

Critical Experiment Summary Sheet

BeO reactor, ρ(Be) = 2.84 gm/cc

1. Reactor Shape (Sketch)

Approximate cube -

Base 24 x 24 in^2.

BeO/U^{235}	Crit.Ht.(in.)	Foils/pack.	ρ(BeO)
245.5	20.8	4	2.83
491	22.3	2	2.84
491	22.8	4	2.84
982	25.4	1	2.84
982	26.6	2	2.84

Foils weigh 16.07gm U^{235}, 17.24gm Oy, and are 5 1/4 x 5 1/4 x .002 in.

2. Elements in each region

Sphere

Region		1	2	3	4	5	6	...
Element			Reactors, BeO/U^{235}					
Name	Vol. fraction* or atomic density	245.5	491	491	982	982		
U^{235}	1 Foils Nx10^4	10 mil 2.77	4 mil 1.393	10 mil 1.393	2 mil .697	4 mil .697		
Be	2	.0681	.0684	.0684	.0684	.0684		
O	3	.0681	.0684	.0684	.0684	.0684		
	4							
	5							
	6							
	7							
Radius or thickness of each region		33.64	34.53	34.81	36.08	36.58		

*Material density required

3. Supplementary information (e.g., foil spacing and thickness, uranium enrichment, impurities, power distribution, etc.; may be on supplementary sheets).

Date 12-10-57

Name A. J. Kirschbaum/C.M.

Laboratory UCRL-4983-T p.6

Classification of data UNCLASS.

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Bare ended 8 sided cylinder with 6 in. thick C on all lateral surfaces.

C/U = 599 Mc = 40.5 kg. U^{235}

Equal area Core radius 46.31 cm

Equal area refl. radius 65.12 cm

ρ(U-235) = .05345 gm/cc

$$B^2_{axial} = \left(\frac{\pi}{108.1 + 3.84}\right)^2 = .0007882$$

2. Elements in each region

Ass.5 Cylinder

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction or atomic density							
C	1	.0825	.0853(1)					
U^{235}	2 (2 mil)	.0001377						
B(14.4ppm)	3	1.2×10^{-6}						
CF_2(neglect)	4							
$N(B^2 D_{axial})$*	5	.00955	.00924					
	6							
	7							
Radius or thickness of each region		49.59(2)	64.83(2)					

(1) Assumed ρ = 1.70 gm/cc

(2) Equal area B^2 correction for an octagon is 1.0090; R_{refl} = 64.83

* $N = \frac{B^2}{N(C)}$ for axial escape $E = \frac{B^2}{N(C)} \frac{1}{3\sigma_{tr}}$

Date 12-11-57

Name A. J. Kirschbaum/C.M.

Laboratory UCRL-4983-T p.6

Classification of data UNCLASS

Critical Experiment Summary Sheet

1. Reactor Shape (Sketch)

Bare ended cube

C = $(36\ \frac{1}{2})^2$ square in.

Be: 6 in. thick on 4 sides

Length 35.05 in.

$C/U^{25} \simeq 2340$

$\rho(U\text{-}235) = .01369$ gm/cc; Mc = 11.0 kg U^{235}

$\rho(C) = 1.645$ gm/cc; $\delta = 1.92$ cm.

$B^2_{cyl} = 2\pi^2/(92.71 + 2 \times 32.8)^2 = .000786$;

$B^2_{axial} = .0011440$

2. Elements in each region

Ass.No. 25 Cylinder

Region		1	2	3	4	5	6	...
Element								
Name	Vol. fraction* or atomic density							
C	1	.0825						
U^{235}	2 (1 mil)	.0000353						
B(14.4 ppm)	3	1.4×10^{-6}						
Be [1]	4		.123					
N(C-DB^2) ⊛	5	.0139						
N(Be-DB^2)	6		.0093					
	7							
Radius or thickness of each region		52.89	68.13					

*Material density required

1. Assumed full density

⊛ $N = \frac{B^2}{N(C)}$ for axial escape $E = \frac{B^2}{N(C)}\ \frac{1}{3\sigma_a}$

CRITICAL EXPERIMENT CALCULATIONS

These experiments are presented as computed because of the general interest in neutron flux spectra for a wide variety of reasonably clean systems. Safety calculations are omitted since the set of specifications are the best interpolations reasonably possible between the actual systems, many of which are presented on Table III B and computed results shown on this tabulation.

A brief summary of computed k_{eff} values is as follows:

Godiva*		(93.4 per cent U^{235})	L.A.	1.00	
Jemima*		(37.5 per cent U^{235})	"	.98	
Jemima*		(16.25 per cent U^{235})	"	.98	
H_2O	1	H/U^{235} = 900 (H_2O refl.)	ORNL	1.01	
	2	H/U^{235} = 300 (H_2O refl.)	"	1.03	
	3	H/U^{235} = 53(bare)	"	.98	
D_2O	1	D/U^{235} = 230 (bare)	L.A.	1.00	
	2	D/U^{235} = 2081 (bare)	"	1.01	
	3	D/U^{235} = 34.2 (refl.)	"	.98	
	4	D/U^{235} = 135.3 (refl.)	"	.98	
Be	1	Be/U^{235} = 364 (bare)	ORNL	.99	10 mil foil
	2	Be/U^{235} = 1546 (bare)	ORNL	1.00	10 mil foil
C	1	C/U = 675 B^2 = 21.64 x 10^{-4}	LRL	.99	
	2	C/U = 1379 20.68 x 10^{-4}	"	.99	
	3	C/U = 2569 19.0 x 10^{-4}	"	.98	
CA-4		C/U = 1063 (bare)	ORNL	1.01	10 mil foil

*S_8 calculations for these three systems reduces k_{eff} by Δk=-.0045, -.0027, and -.0012 respectively.

Mixed Systems

Oy C	(1/2 in. C on Oy)	L.A.	1.00
	(1 in. C on Oy)	"	1.00
Oy CH_2	(1/2 in. CH on Oy)	"	1.00
	(1 in. CH on Oy)	"	1.01
Oy U^{233}		"	1.00
Oy Tu		"	1.00 - 1.01
Be reflected C	C/Oy = 384	"	1.02 - 1.00
C reflected C	C/U^{235} = 599	LRL	.97
Be reflected C	C/U^{235} = 1234	LRL	.96

TABLE IV

CRITICAL EXPERIMENT CALCULATIONS
(1. Fast Clean Systems)

16.25% U^{235}
S_4

0.64000 BR	0.04750						
0.000000 00	2.083163-01	2.623157-02	2.551742-02	8.432797-03			
0.64000 BR	0.04750						
0.000000 00	4.280084-01	4.641356-02	6.248056-02	1.538852-02			
0.64000 BR	0.04750						
0.000000 00	3.985829-01	3.674459-02	9.528582-02	1.869450-02			
0.64000 BR	0.04750						
0.000000 00	1.393384 00	8.587355-02	5.183927-01	7.168811-02			
0.64000 BR	0.04750						
0.000000 00	3.740774 00	8.758998-02	1.825030 00	1.218223-01			
0.64000 BR	0.04750						
0.000000 00	1.057510 00	1.036414-02	5.526383-01	2.052835-02			
							JUL 29 58
1.625000 01	3.900000 01	9.843217-01	1.000000-05	-8.549433-06	7.920887-01	8.046909-01	1.263443-02
							JUL 29 58
2.000000 00	1.333333 00	0.005146 00	9.720985-04	1.284193-03	2.465360-03	2.265015-03	6.898503-03
4.000000 00	9.333333 00	0.005146 00	9.549781-04	1.261533-03	2.421691-03	2.224721-03	6.776214-03
6.000000 00	2.533333 01	0.005146 00	9.210481-04	1.216287-03	2.334607-03	2.144457-03	6.533392-03
8.000000 00	4.933333 01	0.005146 00	8.714043-04	1.149767-03	2.206638-03	2.026612-03	6.177744-03
1.000000 01	8.133333 01	0.005146 00	8.077534-04	1.064350-03	2.042284-03	1.875007-03	5.720811-03
1.200000 01	1.213333 02	0.005146 00	7.319744-04	9.615566-04	1.844576-03	1.693411-03	5.176771-03
1.400000 01	1.693333 02	0.005146 00	6.468182-04	8.458325-04	1.621763-03	1.488092-03	4.563260-03
1.600000 01	2.253333 02	0.005146 00	5.538427-04	7.149972-04	1.370583-03	1.260777-03	3.897228-03
1.800000 01	2.893333 02	0.005146 00	4.580662-04	5.813045-04	1.112219-03	1.024393-03	3.204531-03
2.032000 01	4.263627 02	0.005146 00	3.475912-04	4.039974-04	7.757394-04	7.407040-04	2.437719-03
2.100000 01	1.451371 02	0.005234 00	6.303521-05	2.579602-04	5.027208-04	5.274077-04	1.903412-03
2.180000 01	1.832052 02	0.005234 00	5.057311-05	2.015085-04	3.957055-04	4.393656-04	1.666615-03
2.260000 01	1.971572 02	0.005234 00	4.069930-05	1.584997-04	3.128248-04	3.635895-04	1.437908-03
2.340000 01	2.116212 02	0.005234 00	3.318835-05	1.270674-04	2.513339-04	3.022006-04	1.233855-03
2.400000 01	1.685159 02	0.005234 00	2.781224-05	1.052819-04	2.082859-04	2.565718-04	1.071400-03
2.500000 01	3.001666 02	0.005234 00	2.284562-05	8.586516-05	1.695948-04	2.131234-04	9.053431-04
2.580000 01	2.580852 02	0.005234 00	1.801729-05	6.748476-05	1.327875-04	1.701629-04	7.329701-04
2.660000 01	2.745972 02	0.005234 00	1.440293-05	5.420226-05	1.060263-04	1.373568-04	5.933143-04
2.740000 01	2.916212 02	0.005234 00	1.114947-05	4.263219-05	8.250906-05	1.071469-04	4.580641-04
2.794000 01	2.067263 02	0.005234 00	8.417124-06	3.334535-05	6.325950-05	8.115134-05	3.456342-04
							JUL 29 58
1.190982-02	2.336603-03						
1.170238-02	2.295203-03						
1.129333-02	2.214000-03						
1.069699-02	2.095922-03						
9.933901-03	1.945157-03						
9.032101-03	1.768006-03						
8.021607-03	1.570576-03						
6.942781-03	1.362691-03						
5.829807-03	1.151445-03						
4.661142-03	9.403803-04						
3.885962-03	8.076656-04						
3.513522-03	7.411055-04						
3.112839-03	6.634910-04						
2.721934-03	5.836637-04						
2.389678-03	5.134174-04						
2.025395-03	4.337097-04						
1.628848-03	3.450168-04						
1.290733-03	2.675709-04						
9.550188-04	1.907014-04						
6.416640-04	1.187346-04						

16.25% U^{235}
S_8

0.64000 BR 0.05124
0.000000 00 1.948406 00 2.466631-01 2.390460-01 8.064558-02

0.64000 BR 0.05124
0.000000 00 4.002553 00 4.363735-01 5.952052-01 1.467528-01

0.64000 BR 0.05124
0.000000 00 3.724757 00 3.453706-01 8.917547-01 1.769470-01

0.64000 BR 0.05124
0.000000 00 1.299669 01 8.053467-01 4.842836 00 6.732217-01

0.64000 BR 0.05124
0.000000 00 3.469259 01 8.149820-01 1.699734 01 1.136221 00

0.64000 BR 0.05124
0.000000 00 1.012814 01 9.706201-02 5.476752 00 2.047223-01

JUL 28 58

1.625000 01 9.100000 01 9.829169-01 1.000000-05 2.057422-06 7.401602 00 7.530304 00 1.100868 00

JUL 28 58

2.000000 00 1.333333 00 0.005322 00 9.032425-03 1.192642-02 2.289774-02 2.105055-02 6.409848-02
4.000000 00 9.333333 00 0.005322 00 8.879870-03 1.173705-02 2.252940-02 2.068500-02 6.297154-02
6.000000 00 2.533333 01 0.005322 00 8.567337-03 1.131501-02 2.171860-02 1.995025-02 6.072721-02
8.000000 00 4.933333 01 0.005322 00 8.111771-03 1.070308-02 2.054174-02 1.886366-02 5.744596-02
1.000000 01 8.133333 01 0.005322 00 7.526835-03 9.915217-03 1.902584-02 1.746415-02 5.322844-02
1.200000 01 1.213333 02 0.005322 00 6.829001-03 8.965495-03 1.719986-02 1.578558-02 4.820129-02
1.400000 01 1.693333 02 0.005322 00 6.043357-03 7.894198-03 1.513652-02 1.389528-02 4.252610-02
1.600000 01 2.253333 02 0.005322 00 5.186148-03 6.693056-03 1.282785-02 1.178710-02 3.636001-02
1.800000 01 2.893333 02 0.005322 00 4.293454-03 5.433795-03 1.039902-02 9.576461-03 2.991449-02
2.032000 01 4.263627 02 0.005322 00 3.268144-03 3.795215-03 7.284396-03 6.942019-03 2.277826-02
2.100000 01 1.451371 02 0.005410 00 5.921104-04 2.418773-03 4.713433-03 4.339965-03 1.779541-02
2.180000 01 1.832052 02 0.005410 00 4.732114-04 1.878881-03 3.693539-03 4.107023-03 1.556599-02
2.260000 01 1.971572 02 0.005410 00 3.832189-04 1.489984-03 2.940307-03 3.409303-03 1.343673-02
2.340000 01 2.116212 02 0.005410 00 3.123294-04 1.193572-03 2.360010-03 2.831600-03 1.152866-02
2.400000 01 1.685159 02 0.005410 00 2.612812-04 9.863504-04 1.951293-03 2.401461-03 1.000870-02
2.500000 01 3.001666 02 0.005410 00 2.141269-04 8.017723-04 1.584300-03 1.991654-03 8.452210-03
2.580000 01 2.580852 02 0.005410 00 1.684752-04 6.278887-04 1.236766-03 1.587255-03 6.837739-03
2.660000 01 2.745972 02 0.005410 00 1.342409-04 5.026656-04 9.843182-04 1.277184-03 5.516864-03
2.740000 01 2.916212 02 0.005410 00 1.042316-04 3.964771-04 7.685950-04 1.000701-03 4.280969-03
2.794000 01 2.067263 02 0.005410 00 7.932613-05 3.120920-04 5.939760-04 7.652936-04 3.175162-03

JUL 28 58

1.098629-01 2.194877-02
1.079616-01 2.156734-02
1.042411-01 2.083330-02
9.880636-02 1.976095-02
9.184583-02 1.839086-02
8.359948-02 1.677427-02
7.434299-02 1.496909-02
6.442070-02 1.305667-02
5.416202-02 1.110688-02
4.334166-02 9.147011-03
3.615530-02 7.914445-03
3.269576-02 7.285790-03
2.896765-02 6.542550-03
2.533742-02 5.773529-03
2.225389-02 5.092217-03
1.886079-02 4.309152-03
1.517833-02 3.438494-03
1.198848-02 2.663011-03
8.897920-03 1.900447-03
6.066070-03 1.200708-03

GODIVA
S_4

0.64000 BB 0.04620
0.000000 00 1.169652 01 3.690747 00

0.64000 BB 0.04620
0.000000 00 2.265665 01 6.779895 00

0.64000 BB 0.04620
0.000000 00 1.529331 01 4.154639 00

0.64000 BB 0.04620
0.000000 00 2.738295 01 6.737337 00

0.64000 BB 0.04620
0.000000 00 2.626077 01 4.253734 00

0.64000 BB 0.04620
0.000000 00 5.527768 00 5.220640-01

JUL 28 59

7.400000-01	2.600000 01	1.001557 00	1.000000-05	4.376769-07	4.623251 01	4.616067 01	1.525256 02

JUL 28 59

5.000000-01	2.083333-02	0.005522 00	8.787720-01	7.404615-01	1.390493 00	8.967541-01	1.499882 00
1.000000 00	1.458333-01	0.005522 00	8.730965-01	7.358918-01	1.381831 00	8.911398-01	1.490241 00
1.500000 00	3.958333-01	0.005522 00	8.613691-01	7.263108-01	1.363732 00	8.794790-01	1.470305 00
2.000000 00	7.708333-01	0.005522 00	8.436092-01	7.117012-01	1.336180 00	8.617758-01	1.440115 00
2.500000 00	1.270833 00	0.005522 00	8.199454-01	6.921495-01	1.299346 00	8.381497-01	1.399890 00
3.000000 00	1.895833 00	0.005522 00	7.907353-01	6.679757-01	1.253921 00	7.989677-01	1.350238 00
4.000000 00	6.166667 00	0.005522 00	7.351599-01	6.218163-01	1.166962 00	7.433647-01	1.255757 00
4.500000 00	4.520833 00	0.005522 00	6.723411-01	5.695641-01	1.068669 00	6.804760-01	1.149956 00
5.000000 00	5.645833 00	0.005522 00	6.242734-01	5.296038-01	9.934979-01	6.323638-01	1.067228 00
5.500000 00	6.895833 00	0.005522 00	5.729199-01	4.869506-01	9.132227-01	5.809775-01	9.799102-01
6.000000 00	8.270833 00	0.005522 00	5.188213-01	4.420741-01	8.287477-01	5.269672-01	8.879176-01
6.500000 00	9.770833 00	0.005522 00	4.625667-01	3.954983-01	7.410358-01	4.706398-01	7.922560-01
7.000000 00	1.139583 01	0.005522 00	4.047628-01	3.477619-01	6.518029-01	4.129136-01	6.939454-01
7.500000 00	1.314583 01	0.005522 00	3.459729-01	2.994740-01	5.599983-01	3.543616-01	5.940260-01
8.000000 00	1.502083 01	0.005522 00	2.882425-01	2.518667-01	4.702678-01	2.967377-01	4.958524-01
8.710000 00	2.479604 01	0.005522 00	2.070163-01	1.859889-01	3.454558-01	2.159250-01	3.572381-01

JUL 28 59

1.147203 00	1.772368-01
1.139334 00	1.759777-01
1.123340 00	1.734449-01
1.099315 00	1.696573-01
1.067473 00	1.646503-01
1.028255 00	1.584849-01
9.539929-01	1.468310-01
8.702224-01	1.336912-01
8.061066-01	1.236139-01
7.375566-01	1.128166-01
6.652617-01	1.013999-01
5.899533-01	8.945961-02
5.123774-01	7.711168-02
4.330337-01	6.431373-02
3.555428-01	5.185690-02
2.450755-01	3.380726-02

GODIVA
S_8

0.64000 BR 0.04754
0.000000 00 1.167644 01 3.710929 00

0.64000 BR 0.04754
0.000000 00 2.262749 01 6.813331 00

0.64000 BR 0.04754
0.000000 00 1.530321 01 4.167253 00

0.64000 BR 0.04754
0.000000 00 2.737077 01 6.753289 00

0.64000 BR 0.04754
0.000000 00 2.615861 01 4.256437 00

0.64000 BR 0.04754
0.000000 00 5.510086 00 5.218411-01

JUL 28 58

7.400000-01	1.700000 01	9.976138-01	1.000000-05	-2.512196-07	4.604330 01	4.615341 01	1.519468 02

JUL 28 58

5.000000-01	2.083333-02	0.005240 00	8.816873-01	7.408613-01	1.390712 00	8.868820-01	1.499096 00
1.000000 00	1.458333-01	0.005240 00	8.757001-01	7.359364-01	1.381431 00	8.809206-01	1.488946 00
1.500000 00	3.958333-01	0.005240 00	8.634254-01	7.258158-01	1.362374 00	8.686955-01	1.468153 00
2.000000 00	7.708333-01	0.005240 00	8.450646-01	7.106299-01	1.333798 00	8.503875-01	1.437049 00
2.500000 00	1.270833 00	0.005240 00	8.208344-01	6.905629-01	1.296049 00	8.262157-01	1.396004 00
3.000000 00	1.895833 00	0.005240 00	7.910804-01	6.659325-01	1.249711 00	7.965382-01	1.345601 00
4.000000 00	6.166667 00	0.005240 00	7.349996-01	6.194446-01	1.162279 00	7.405715-01	1.250597 00
4.500000 00	4.520833 00	0.005240 00	6.718058-01	5.670401-01	1.063728 00	6.774984-01	1.143546 00
5.000000 00	5.645833 00	0.005240 00	6.237382-01	5.272231-01	9.888331-01	6.295441-01	1.062122 00
5.500000 00	6.895833 00	0.005240 00	5.723534-01	4.847358-01	9.088840-01	5.783182-01	9.750862-01
6.000000 00	8.270833 00	0.005240 00	5.185720-01	4.402874-01	8.252378-01	5.247147-01	8.839939-01
6.500000 00	9.770833 00	0.005240 00	4.622941-01	3.938955-01	7.378927-01	4.686746-01	7.896699-01
7.000000 00	1.139583 01	0.005240 00	4.050859-01	3.467667-01	6.491313-01	4.117262-01	6.917771-01
7.500000 00	1.314583 01	0.005240 00	3.455535-01	2.979280-01	5.570556-01	3.525289-01	5.908950-01
8.000000 00	1.502083 01	0.005240 00	2.871609-01	2.500562-01	4.667958-01	2.944861-01	4.919519-01
8.710000 00	2.479604 01	0.005240 00	2.078957-01	1.860208-01	3.455320-01	2.159349-01	3.572882-01

JUL 28 58

1.144193 00	1.768937-01
1.136171 00	1.756391-01
1.119775 00	1.730606-01
1.095340 00	1.692287-01
1.063149 00	1.641832-01
1.023604 00	1.579779-01
9.492109-01	1.463058-01
8.654340-01	1.331541-01
8.016394-01	1.231156-01
7.333145-01	1.123236-01
6.617781-01	1.010039-01
5.867398-01	8.906812-02
5.104315-01	7.699371-02
4.307513-01	6.499304-02
3.525769-01	5.148394-02
2.452101-01	3.396530-02

37.5% U^{235}

0.64000 BB	0.04620						
0.000000 00	1.037384 00	1.924138-01					
0.64000 BB	0.04620						
0.000000 00	2.089482 00	3.527886-01					
0.64000 BB	0.04620						
0.000000 00	1.674274 00	2.749554-01					
0.64000 BB	0.04620						
0.000000 00	4.296376 00	5.954174-01					
0.64000 BB	0.04620						
0.000000 00	6.731768 00	5.081489-01					
0.64000 BB	0.04620						
0.000000 00	1.605418 00	6.773085-02					JUL 29 58
3.750000 01	6.000000 01	9.846026-01	1.000000-05	-2.050922-06	3.778767 00	3.837649 00	4.940519-01
							JUL 29 58
9.000000-01	1.214999-01	0.005016 00	1.733709-02	1.920448-02	3.656920-02	2.861327-02	6.639956-02
1.800000 00	8.505000-01	0.005016 00	1.718211-02	1.903794-02	3.624956-02	2.836373-02	6.581362-02
2.700000 00	2.308499 00	0.005016 00	1.686869-02	1.869759-02	3.559840-02	2.785576-02	6.462667-02
3.600000 00	4.495500 00	0.005016 00	1.640071-02	1.818702-02	3.462299-02	2.709502-02	6.285301-02
4.500000 00	7.411499 00	0.005016 00	1.578544-02	1.751412-02	3.333845-02	2.609326-02	6.052024-02
5.400000 00	1.105649 01	0.005016 00	1.503277-02	1.668993-02	3.176582-02	2.486692-02	5.766614-02
6.300000 00	1.543049 01	0.005016 00	1.415487-02	1.572815-02	2.993107-02	2.343614-02	5.433721-02
7.200000 00	2.053350 01	0.005016 00	1.316583-02	1.464467-02	2.786435-02	2.182440-02	5.058720-02
8.100000 00	2.636549 01	0.005016 00	1.208129-02	1.345722-02	2.559919-02	2.005775-02	4.647575-02
9.000000 00	3.292650 01	0.005016 00	1.091803-02	1.218496-02	2.317186-02	1.816429-02	4.206666-02
9.900000 00	4.021649 01	0.005016 00	9.693760-03	1.084810-02	2.062043-02	1.617349-02	3.742751-02
1.080000 01	4.823549 01	0.005016 00	8.425933-03	9.467653-03	1.798429-02	1.411556-02	3.262529-02
1.170000 01	5.698349 01	0.005016 00	7.133794-03	8.064594-03	1.530297-02	1.202105-02	2.772945-02
1.260000 01	6.646049 01	0.005016 00	5.827556-03	6.659690-03	1.261269-02	9.916256-03	2.278964-02
1.350000 01	7.666651 01	0.005016 00	4.561356-03	5.295478-03	1.000256-02	7.873278-03	1.799624-02
1.457000 01	1.054359 02	0.005016 00	3.022636-03	3.670812-03	6.869227-03	5.398817-03	1.212580-02
							JUL 29 58
7.525818-02	1.296348-02						
7.456246-02	1.284193-02						
7.316832-02	1.259943-02						
7.109546-02	1.223940-02						
6.837629-02	1.176729-02						
6.505394-02	1.119028-02						
6.118098-02	1.051714-02						
5.681800-02	9.757891-03						
5.203228-02	8.923793-03						
4.689553-02	8.026426-03						
4.148351-02	7.078874-03						
3.586809-02	6.091129-03						
3.013487-02	5.080726-03						
2.429751-02	4.039298-03						
1.865473-02	3.029382-03						
1.173571-02	1.787283-03						

Oy U^{233}	0.640000 BB	0.05715						
	0.000000 00	0.000000 00	-1.322892-09	1.856743 00	8.905752-01	7.584757 00	3.082569 00	
	0.640000 BB	0.05715						
	0.000000 00	0.000000 00	-2.381206-09	3.343060 00	1.502060 00	1.474364 01	5.628868 00	
	0.640000 BB	0.05715						
	0.000000 00	0.000000 00	-1.190603-09	1.918225 00	7.806139-01	9.441468 00	3.456742 00	
	0.640000 BB	0.05715						
	0.000000 00	0.000000 00	-1.587471-09	2.991981 00	9.560048-01	1.689270 01	5.471841 00	
	0.640000 BB	0.05715						
	0.000000 00	0.000000 00	-7.937355-10	2.575413 00	4.646448-01	1.654873 01	3.371293 00	
	0.640000 BB	0.05715						
	0.000000 00	0.000000 00	-1.653615-10	4.868577-01	4.346932-02	3.452438 00	4.152296-01	
								AUG 32 58
	2.330000 02	1.800000 01	1.005739 00	1.000000-05	1.639127-06	0.000000 00	3.746034 01	3.767533 01
								AUG 32 58
	2.665000-01	3.154571-03	0.004734 00	0.000000 00	1.020900 00	1.830320 00	1.052512 00	1.572633 00
	5.330000-01	2.208200-02	0.004734 00	0.000000 00	1.040441 00	1.863436 00	1.069917 00	1.594261 00
	1.000000 00	1.414300-01	0.005440 00	1.720614 00	1.080485 00	1.931016 00	1.105311 00	1.637563 00
	1.400000 00	2.906666-01	0.005440 00	1.715570 00	1.078663 00	1.927209 00	1.102953 00	1.632811 00
	1.800000 00	5.146666-01	0.005440 00	1.666755 00	1.043958 00	1.867146 00	1.070669 00	1.589542 00
Oy	2.200000 00	8.026666-01	0.005440 00	1.599498 00	9.946153-01	1.782438 00	1.025869 00	1.531134 00
	2.600000 00	1.154666 00	0.005440 00	1.518029 00	9.360702-01	1.681304 00	9.716969-01	1.459147 00
	3.147100 00	2.265604 00	0.005440 00	1.389760 00	8.350571-01	1.510940 00	8.848087-01	1.353073 00
	3.600000 00	2.581961 00	0.005526 00	7.568737-01	7.095241-01	1.300829 00	7.800828-01	1.231045 00
	4.200000 00	4.571999 00	0.005526 00	6.729647-01	6.119552-01	1.131645 00	6.898469-01	1.112307 00
	4.800000 00	6.083999 00	0.005526 00	5.905438-01	5.289652-01	9.821451-01	6.038317-01	9.846293-01
U^{233}	5.400000 00	7.812000 00	0.005526 00	5.124318-01	4.555540-01	8.475705-01	5.237309-01	8.593477-01
	6.000000 00	9.756000 00	0.005526 00	4.364874-01	3.869592-01	7.205953-01	4.467035-01	7.353307-01
	6.600000 00	1.191599 01	0.005526 00	3.618790-01	3.215563-01	5.986716-01	3.717953-01	6.122780-01
	7.200000 00	1.429200 01	0.005526 00	2.909145-01	2.601993-01	4.839206-01	3.007990-01	4.944352-01
	7.941600 00	2.127014 01	0.005526 00	2.031296-01	1.863359-01	3.446985-01	2.137317-01	3.474921-01
								AUG 32 58
	1.108881 00	1.626132-01						
	1.116521 00	1.636585-01						
	1.136423 00	1.664089-01						
	1.130388 00	1.642340-01						
	1.103095 00	1.605572-01						
	1.067317 00	1.558622-01						
	1.022708 00	1.499996-01						
	9.677264-01	1.428532-01						
	8.959022-01	1.332180-01						
	8.202202-01	1.228314-01						
	7.295260-01	1.112566-01						
	6.363735-01	9.688202-02						
	5.418197-01	8.207187-02						
	4.458680-01	6.675162-02						
	3.534403-01	5.192547-02						
	2.661241-01	3.878663-02						
								AUG 32 58
	2.330000 02	1.800000 01	1.005739 00	1.000000-05	1.639127-06	0.000000 00	3.746034 01	3.767533 01

Oy Tu
0.695 in.

0.640000 BB	0.05277						
0.000000 00	1.132770 01	3.933844 00	9.904195-01	3.082454 00			
0.640000 BB	0.05277						
0.000000 00	2.185801 01	7.104158 00	2.455547 00	5.684610 00			
0.640000 BB	0.05277						
0.000000 00	1.397657 01	4.186539 00	2.740089 00	4.009269 00			
0.640000 BB	0.05277						
0.000000 00	2.562771 01	6.322888 00	7.985029 00	7.462923 00			
0.640000 BB	0.05277						
0.000000 00	2.709786 01	3.609934 00	1.074497 01	5.328519 00			
0.640000 BB	0.05277						
0.000000 00	5.820815 00	3.831618-01	2.326538 00	7.090265-01			
							AUG 32 58
6.950000-01	1.700000 01	1.000408 00	1.000000-05	2.235174-06	0.000000 00	4.726609 01	4.728540 01
							AUG 32 58
1.000000 00	1.666666-01	0.005110 00	1.009544 00	8.428303-01	1.583362 00	9.988695-01	1.713136 00
2.000000 00	1.166666 00	0.005110 00	9.834033-01	8.210057-01	1.542141 00	9.731080-01	1.669443 00
3.000000 00	3.166666 00	0.005110 00	9.301841-01	7.759129-01	1.457253 00	9.202222-01	1.580464 00
4.000000 00	6.166667 00	0.005110 00	8.520063-01	7.090314-01	1.331570 00	8.421920-01	1.449976 00
5.000000 00	1.016666 01	0.005110 00	7.526161-01	6.235856-01	1.171134 00	7.427689-01	1.284296 00
6.000000 00	1.516666 01	0.005110 00	6.361750-01	5.217630-01	9.803648-01	6.256728-01	1.091522 00
7.000000 00	2.116666 01	0.005110 00	5.090788-01	4.103576-01	7.716022-01	4.976871-01	8.812668-01
7.725000 00	1.966569 01	0.005110 00	3.889236-01	2.961550-01	5.603230-01	3.740940-01	6.902972-01
8.000000 00	8.500965 00	0.005176 00	4.619963-02	2.192625-01	4.193548-01	2.957731-01	5.771081-01
8.200000 00	6.561327 00	0.005176 00	4.013148-02	1.895833-01	3.637351-01	2.633635-01	5.257326-01
8.400000 00	6.889335 00	0.005176 00	3.599622-02	1.696485-01	3.258965-01	2.397445-01	4.847092-01
8.600000 00	7.225326 00	0.005176 00	3.242334-02	1.526217-01	2.932478-01	2.183289-01	4.451742-01
8.800000 00	7.569335 00	0.005176 00	2.926842-02	1.377572-01	2.644566-01	1.985567-01	4.066955-01
9.000000 00	7.921335 00	0.005176 00	2.641898-02	1.244902-01	2.384857-01	1.799078-01	3.686259-01
9.200000 00	8.281325 00	0.005176 00	2.377260-02	1.123353-01	2.143906-01	1.617781-01	3.298549-01
9.490000 00	1.266372 01	0.005176 00	2.058626-02	9.807107-02	1.854004-01	1.383851-01	2.764219-01
							AUG 32 58
1.351833 00	2.072060-01						
1.316651 00	2.016705-01						
1.246439 00	1.907622-01						
1.144549 00	1.750100-01						
1.015841 00	1.551193-01						
8.678638-01	1.324253-01						
7.068927-01	1.078061-01						
5.681139-01	8.722676-02						
4.909598-01	7.652501-02						
4.520819-01	7.091926-02						
4.179326-01	6.557569-02						
3.831270-01	5.990545-02						
3.477608-01	5.398468-02						
3.115696-01	4.782111-02						
2.736405-01	4.130525-02						
2.184175-01	3.150130-02						
							AUG 32 58
6.950000-01	1.700000 01	1.000408 00	1.000000-05	2.235174-06	0.000000 00	4.726609 01	4.728540 01

Oy

Tu

Oy Tu
1.76 in.

0.64000 BB	0.05277							
0.000000 00	1.148751 01	4.330699 00	2.435071 00	2.297289 00				
0.64000 BB	0.05277							
0.000000 00	2.204216 01	7.753614 00	6.086679 00	4.258071 00				
0.64000 BB	0.05277							
0.000000 00	1.403794 01	4.405747 00	7.445879 00	3.599110 00				
0.64000 BB	0.05277							
0.000000 00	2.608111 01	6.207992 00	2.546908 01	8.313348 00				
0.64000 BB	0.05277							
0.000000 00	2.953414 01	3.029062 00	4.407389 01	7.482230 00				
0.64000 BB	0.05277							
0.000000 00	6.534514 00	2.190849-01	1.110024 01	1.128390 00				
								AUG 32 58
1.760000 00	1.800000 01	1.005813 00	1.000000-05	2.577901-06	0.000000 00	5.142741 01		5.172640 01
								AUG 32 58
9.000000-01	1.214999-01	0.005110 00	1.257280 00	1.030437 00	1.934570 00	1.226910 00		2.147105 00
1.800000 00	8.505000-01	0.005110 00	1.231543 00	1.008227 00	1.892608 00	1.200885 00		2.103776 00
2.700000 00	2.308499 00	0.005110 00	1.178725 00	9.618458-01	1.805304 00	1.146960 00		2.014899 00
3.600000 00	4.495500 00	0.005110 00	1.100235 00	8.918424-01	1.673867 00	1.066243 00		1.883240 00
Oy 4.500000 00	7.411499 00	0.005110 00	9.990213-01	8.005081-01	1.502653 00	9.615661-01		1.713956 00
5.400000 00	1.105649 01	0.005110 00	8.781447-01	6.879048-01	1.292364 00	8.349538-01		1.513797 00
6.300000 00	1.543049 01	0.005110 00	7.437595-01	5.608546-01	1.055300 00	6.930017-01		1.291801 00
6.962000 00	1.456621 01	0.005110 00	6.106321-01	4.194062-01	7.958360-01	5.466998-01		1.083028 00
7.500000 00	1.407178 01	0.005176 00	6.278120-02	2.945596-01	5.683669-01	4.239110-01		9.185721-01
8.100000 00	1.826099 01	0.005176 00	4.677355-02	2.157211-01	4.209590-01	3.367549-01		7.810319-01
8.600000 00	1.743583 01	0.005176 00	3.668751-02	1.674005-01	3.284756-01	2.749411-01		6.657549-01
Tu 9.200000 00	2.377199 01	0.005176 00	2.951653-02	1.338611-01	2.631070-01	2.270613-01		5.652930-01
9.800000 00	2.708399 01	0.005176 00	2.335844-02	1.055454-01	2.073259-01	1.836561-01		4.669653-01
1.030000 01	2.525583 01	0.005176 00	1.879790-02	8.491437-02	1.663171-01	1.499359-01		3.853342-01
1.080000 01	2.783083 01	0.005176 00	1.536760-02	6.962764-02	1.356971-01	1.234196-01		3.174140-01
1.143200 01	3.905720 01	0.005176 00	1.179801-02	5.421147-02	1.041041-01	9.378954-02		2.354170-01
								AUG 32 58
1.766089 00	2.693549-01							
1.727780 00	2.643185-01							
1.666062 00	2.544198-01							
1.568950 00	2.402150-01							
1.445747 00	2.223774-01							
1.304627 00	2.027575-01							
1.151350 00	1.822996-01							
1.023806 00	1.680310-01							
9.334136-01	1.606107-01							
8.356754-01	1.488107-01							
7.346865-01	1.333519-01							
6.341293-01	1.161616-01							
5.269381-01	9.662614-02							
4.316643-01	7.832259-02							
3.483981-01	6.201987-02							
2.822311-01	4.871198-02							
								AUG 32 58
1.760000 00	1.800000 01	1.005813 00	1.000000-05	2.577901-06	0.000000 00	5.142741 01		5.172640 01

Oy Tu
3.525 in.

0.640000 BB 0.05277
0.000000 00 1.575986 01 6.353343 00 5.852576 00 1.703195 00

0.640000 BB 0.05277
0.000000 00 3.007226 01 1.132744 01 1.463738 01 3.169198 00

0.640000 BB 0.05277
0.000000 00 1.901461 01 6.312349 00 1.961824 01 3.447907 00

0.640000 BB 0.05277
0.000000 00 3.548085 01 8.436134 00 8.111054 01 1.080220 01

0.640000 BB 0.05277
0.000000 00 4.313681 01 3.283156 00 1.935302 02 1.373513 01

0.640000 BB 0.05277
0.000000 00 9.892399 00 3.330982-02 5.757035 01 2.385340 00

AUG 32 58
3.525000 00 1.900000 01 1.006818 00 1.000000-05 -2.816319-06 0.000000 00 7.672614 01 7.724930 01

AUG 32 58

8.000000-01	8.533333-02	0.005110 00	2.091623 00	1.673846 00	3.137056 00	1.992466 00	3.545934 00
1.600000 00	5.973333-01	0.005110 00	2.058499 00	1.644284 00	3.081155 00	1.957967 00	3.489900 00
2.400000 00	1.621333 00	0.005110 00	1.989877 00	1.581763 00	2.963438 00	1.885712 00	3.372791 00
3.200000 00	3.157333 00	0.005110 00	1.886651 00	1.485693 00	2.783166 00	1.775928 00	3.197958 00
Oy 4.000000 00	5.205333 00	0.005110 00	1.752107 00	1.359014 00	2.545768 00	1.631636 00	2.970382 00
4.800000 00	7.765333 00	0.005110 00	1.587772 00	1.196880 00	2.243732 00	1.452277 00	2.685928 00
5.600000 00	1.083733 01	0.005110 00	1.404562 00	1.015661 00	1.905412 00	1.250458 00	2.387483 00
6.391000 00	1.423727 01	0.005110 00	1.187177 00	7.671870-01	1.451115 00	9.976692-01	2.042354 00
7.500000 00	2.680589 01	0.005176 00	9.937611-02	4.600042-01	8.905791-01	6.914733-01	1.632953 00
8.600000 00	3.569683 01	0.005176 00	5.871481-02	2.607416-01	5.159930-01	4.599874-01	1.250526 00
9.700000 00	4.610282 01	0.005176 00	4.012969-02	1.744786-01	3.467816-01	3.302835-01	9.696824-01
Tu 1.080000 01	5.783982 01	0.005176 00	2.779275-02	1.184075-01	2.360356-01	2.392768-01	7.494545-01
1.190000 01	7.090782 01	0.005176 00	1.949213-02	8.165262-02	1.629459-01	1.739598-01	5.733275-01
1.300000 01	8.530682 01	0.005176 00	1.369610-02	5.673541-02	1.130472-01	1.257516-01	4.297037-01
1.400000 01	9.116667 01	0.005176 00	9.712624-03	4.006823-02	7.951466-02	9.116010-02	3.180886-01
1.534400 01	1.447609 02	0.005176 00	6.271368-03	2.637349-02	5.144666-02	5.926413-02	2.035364-01

AUG 32 58

3.092123 00	4.735846-01
3.051779 00	4.680133-01
2.970718 00	4.571647-01
2.852515 00	4.418575-01
2.701458 00	4.227550-01
2.520692 00	4.003225-01
2.340385 00	3.786834-01
2.169337 00	3.752666-01
1.978893 00	3.732478-01
1.710604 00	3.464685-01
1.427561 00	3.005850-01
1.165404 00	2.516110-01
9.247814-01	2.021991-01
7.038788-01	1.537320-01
5.173282-01	1.110871-01
3.091961-01	6.240324-02

AUG 32 58
3.525000 00 1.900000 01 1.006818 00 1.000000-05 -2.816319-06 0.000000 00 7.672614 01 7.724930 01

Oy Tu
3.925 in.

0.64000 BB	0.05365						
0.000000 00	1.743234 01	7.095328 00	6.972355 00	1.623369 00			
0.64000 BB	0.05365						
0.000000 00	3.323534 01	1.264410 01	1.742189 01	3.020644 00			
0.64000 BB	0.05365						
0.000000 00	2.098648 01	7.032000 00	2.368025 01	3.450797 00			
0.64000 BB	0.05365						
0.000000 00	3.914683 01	9.340475 00	1.012729 02	1.148827 01			
0.64000 BB	0.05365						
0.000000 00	4.809127 01	3.494858 00	2.568376 02	1.568174 01			
0.64000 BB	0.05365						
0.000000 00	1.109208 01	-8.611454-03	7.855968 01	2.787741 00			
							AUG 32 58
3.925000 00	2.000000 01	1.005927 00	1.000000-05	-6.079674-06	0.000000 00	8.613738 01	8.664793 01
							AUG 32 58
8.000000-01	8.533333-02	0.005176 00	2.384095 00	1.899716 00	3.559108 00	2.260078 00	4.029123 00
1.600000 00	5.973333-01	0.005176 00	2.346326 00	1.865798 00	3.494982 00	2.220560 00	3.964723 00
2.400000 00	1.621333 00	0.005176 00	2.268054 00	1.794064 00	3.359945 00	2.137777 00	3.831466 00
3.200000 00	3.157333 00	0.005176 00	2.150290 00	1.683799 00	3.153076 00	2.011948 00	3.631800 00
4.000000 00	5.205333 00	0.005176 00	1.996577 00	1.537804 00	2.879655 00	1.846372 00	3.371702 00
4.800000 00	7.765333 00	0.005176 00	1.809099 00	1.351290 00	2.532294 00	1.640238 00	3.058168 00
5.600000 00	1.083733 01	0.005176 00	1.598997 00	1.139920 00	2.138336 00	1.406568 00	2.704927 00
6.312000 00	1.264376 01	0.005176 00	1.362489 00	8.654431-01	1.637187 00	1.128966 00	2.329839 00
7.600000 00	3.124957 01	0.005264 00	1.105547-01	5.099055-01	9.877180-01	7.722629-01	1.648692 00
8.800000 00	4.041599 01	0.005264 00	6.131133-02	2.692592-01	5.346144-01	4.891851-01	1.374273 00
1.000000 01	5.308800 01	0.005264 00	4.132816-02	1.775544-01	3.534109-01	3.448332-01	1.049183 00
1.130000 01	7.381616 01	0.005264 00	2.758765-02	1.155972-01	2.308366-01	2.415862-01	7.909701-01
1.250000 01	8.503800 01	0.005264 00	1.861185-02	7.630211-02	1.525690-01	1.693729-01	5.885592-01
1.380000 01	1.124911 02	0.005264 00	1.267370-02	5.122509-02	1.022568-01	1.187055-01	4.296425-01
1.500000 01	1.244880 02	0.005264 00	8.505365-03	3.419827-02	6.792172-02	8.157943-02	3.024902-01
1.628100 01	1.367700 02	0.005264 00	5.349101-03	2.198851-02	4.287410-02	5.179372-02	1.889205-01
							AUG 32 58
3.548034 00	5.443385-01						
3.502671 00	5.382136-01						
3.411488 00	5.262906-01						
3.278640 00	5.095454-01						
3.109359 00	4.888710-01						
2.917526 00	4.683023-01						
2.708005 00	4.484798-01						
2.530620 00	4.425461-01						
2.308114 00	4.421014-01						
1.971704 00	4.087752-01						
1.631006 00	3.521108-01						
1.309883 00	2.905622-01						
1.019149 00	2.293437-01						
7.583867-01	1.775312-01						
5.297115-01	1.167690-01						
3.074816-01	6.337390-02						

Oy

Tu

TOPSY
Oy Tu
9 in.

0.64000 BB	0.05365				
0.000000 00	7.279654 01	3.086657 01	4.351862 01	1.034638 00	
0.64000 BB	0.05365				
0.000000 00	1.382395 02	5.494362 01	1.070786 02	1.872202 00	
0.64000 BB	0.05365				
0.000000 00	8.684032 01	3.022138 01	1.565298 02	2.953038 00	
0.64000 BB	0.05365				
0.000000 00	1.614246 02	3.928498 01	8.567456 02	1.756354 01	
0.64000 BB	0.05365				
0.000000 00	2.086622 02	1.180391 01	3.617094 03	5.023169 01	
0.64000 BB	0.05365				SEP 24 58
0.000000 00	4.942329 01	-9.719423-01	1.334569 03	1.047548 01	

IDENT	ITERATIONS	k_{eff}	CONV. CRIT. ϵ	ϵ		$\bar{f}_0$	$\bar{f}_0^1$
-3.070000 01	2.100000 01	1.003895 00	1.000000-05	-1.296401-06	0.000000 00	3.991896 02	4.007447 02

RADII	t_i	n_i	f_i	N_r^0	N_r^1 ←FLUXES→ N_r^2		N_r^3
8.000000-01	8.533333-02	0.005176 00	1.106973 01	8.664260 00	1.620088 01	1.028527 01	1.842986 01
1.600000 00	5.973333-01	0.005176 00	1.089512 01	8.502531 00	1.589524 01	1.009817 01	1.812902 01
2.400000 00	1.621333 00	0.005176 00	1.053248 01	8.160620 00	1.525175 01	9.706022 00	1.750542 01
3.200000 00	3.157333 00	0.005176 00	9.986281 00	7.634294 00	1.426437 01	9.108997 00	1.656946 01
4.000000 00	5.205333 00	0.005176 00	9.268435 00	6.924109 00	1.293647 01	8.314068 00	1.534525 01
4.800000 00	7.765333 00	0.005176 00	8.398142 00	6.024818 00	1.126199 01	7.329209 00	1.387093 01
5.600000 00	1.083733 01	0.005176 00	7.398946 00	4.941176 00	9.253895 00	6.169060 00	1.218928 01
6.045000 00	7.546755 00	0.005176 00	6.465811 00	3.781980 00	7.144915 00	5.033705 00	1.071137 01
9.000000 00	8.468391 01	0.005264 00	3.533775-01	1.509814 00	3.116072 00	2.965292 00	7.653806 00
1.200000 01	1.665000 02	0.005264 00	1.391735-01	5.827327-01	1.116770 00	1.093426 00	4.064491 00
1.450000 01	2.201041 02	0.005264 00	6.454404-02	2.437509-01	4.808567-01	5.708261-01	2.366096 00
1.750000 01	3.851250 02	0.005264 00	3.148926-02	1.072800-01	2.097699-01	2.800558-01	1.404900 00
2.000000 01	4.401041 02	0.005264 00	1.713340-02	5.309744-02	1.049757-01	1.513028-01	8.307367-01
2.330000 01	6.945000 02	0.005264 00	9.616099-03	2.755427-02	5.406789-02	8.249177-02	4.982229-01
2.600000 01	9.015000 02	0.005264 00	5.053289-03	1.367379-02	2.678010-02	4.235553-02	2.727933-01
2.890500 01	1.095683 03	0.005264 00	2.267072-03	6.264336-03	1.203571-02	1.941824-02	1.269249-01

Oy

Tu

SEP 24 58

N_r^4	N_r^5
1.703959 01	2.635678 00
1.684349 01	2.612715 00
1.644809 01	2.567908 00
1.587382 01	2.506645 00
1.515335 01	2.436608 00
1.434829 01	2.377170 00
1.351468 01	2.344827 00
1.296693 01	2.379718 00
1.141342 01	2.386103 00
8.385015 00	2.026647 00
5.855661 00	1.501811 00
4.070498 00	1.081779 00
2.724131 00	7.397182-01
1.782605 00	4.894498-01
1.029490 00	2.802627-01
4.589037-01	1.177183-01

Oy C
l/2 in.

0.64000 BB	0.05365						
0.000000 00	9.875296 00	3.289505 00	3.562634-01	3.032897 00			
0.64000 BB	0.05365						
0.000000 00	1.915755 01	5.891785 00	1.369356 00	5.832482 00			
0.64000 BB	0.05365						
0.000000 00	1.227857 01	3.601952 00	1.197493 00	3.380384 00			
0.64000 BB	0.05365						
0.000000 00	2.240843 01	5.673131 00	3.126445 00	5.538339 00			
0.64000 BB	0.05365						
0.000000 00	2.295269 01	3.468607 00	3.288957 00	3.782010 00			
0.64000 BB	0.05365						
0.000000 00	5.083927 00	3.451186-01	1.091935 00	7.040087-01			

AUG 32 58

-6.830200-01	1.600000 01	9.946181-01	1.000000-05	2.391636-06	0.000000 00	3.923183 01	3.902069 01

AUG 32 58

1.000000 00	1.666666-01	0.005176 00	8.220272-01	6.843013-01	1.288758 00	8.121461-01	1.386507 00
2.000000 00	1.166666 00	0.005176 00	8.002065-01	6.663989-01	1.255026 00	7.909180-01	1.350129 00
3.000000 00	3.166666 00	0.005176 00	7.558446-01	6.295589-01	1.185839 00	7.474440-01	1.276073 00
4.000000 00	6.166667 00	0.005176 00	6.907979-01	5.752252-01	1.083991 00	6.835006-01	1.167466 00
5.000000 00	1.016666 01	0.005176 00	6.081631-01	5.059060-01	9.542784-01	6.021347-01	1.029559 00
6.000000 00	1.516666 01	0.005176 00	5.117241-01	4.246332-01	8.025300-01	5.070618-01	8.687833-01
6.400000 00	7.690666 00	0.005176 00	4.389159-01	3.630575-01	6.877637-01	4.352332-01	7.475215-01
6.800000 00	8.714666 00	0.005176 00	3.953018-01	3.260196-01	6.188919-01	3.921886-01	6.749945-01
7.200000 00	9.802666 00	0.005176 00	3.509918-01	2.882122-01	5.487735-01	3.484263-01	6.014237-01
7.520000 00	8.668499 00	0.005176 00	3.104890-01	2.533169-01	4.843963-01	3.083437-01	5.343527-01
7.840000 00	9.438547 00	0.005176 00	2.731767-01	2.201643-01	4.242262-01	2.711356-01	4.729992-01
8.111000 00	8.619791 00	0.005176 00	2.358156-01	1.844965-01	3.617492-01	2.330889-01	4.123205-01
8.382000 00	9.215471 00	0.005264 00	0.000000 00	1.551511-01	3.105842-01	1.999086-01	3.578908-01
8.700000 00	1.160017 01	0.005264 00	0.000000 00	1.339737-01	2.714202-01	1.717475-01	3.075135-01
9.000000 00	1.174949 01	0.005264 00	0.000000 00	1.160163-01	2.361577-01	1.464950-01	2.604253-01
9.381000 00	1.609293 01	0.005264 00	0.000000 00	9.935326-02	2.001194-01	1.203685-01	2.086014-01

AUG 32 58

1.082742 00	1.684601-01
1.052886 00	1.638296-01
9.931824-01	1.546616-01
9.062595-01	1.413902-01
7.962294-01	1.246988-01
6.681068-01	1.054677-01
5.714774-01	9.110975-02
5.135837-01	8.263488-02
4.548130-01	7.415296-02
4.013347-01	6.658045-02
3.529521-01	6.012961-02
3.062927-01	5.547406-02
2.668831-01	5.246286-02
2.310049-01	4.825214-02
1.953028-01	4.212167-02
1.526696-01	3.291941-02

AUG 32 58

-6.830200-01	1.600000 01	9.946181-01	1.000000-05	2.391636-06	0.000000 00	3.923183 01	3.902069 01

Oy

C

Oy C
l in.

0.64000 BB 0.05521
0.000000 00 8.411737 00 2.908939 00 6.067550-01 2.471907 00

0.64000 BB 0.05521
0.000000 00 1.631956 01 5.129069 00 2.452424 00 4.993924 00

0.64000 BB 0.05521
0.000000 00 1.043936 01 3.106214 00 2.146226 00 2.718724 00

0.64000 BB 0.05521
0.000000 00 1.910653 01 4.802739 00 5.774315 00 4.512185 00

0.64000 BB 0.05521
0.000000 00 1.985692 01 2.860824 00 6.627126 00 3.373601 00

0.64000 BB 0.05521
0.000000 00 4.704791 00 1.848215-01 2.853841 00 9.223017-01

AUG 32 58

-6.830100-01	1.500000 01	9.964624-01	1.000000-05	1.691281-06	0.000000 00	3.356653 01	3.344778 01

AUG 32 58

Oy								
1.000000 00	1.666666-01	0.005326 00	7.535515-01	6.241409-01	1.178717 00	7.431669-01	1.273746 00
2.000000 00	1.166666 00	0.005326 00	7.336960-01	6.076777-01	1.147784 00	7.237137-01	1.240515 00
3.000000 00	3.166666 00	0.005326 00	6.932991-01	5.737526-01	1.084277 00	6.838350-01	1.172819 00
4.000000 00	6.166667 00	0.005326 00	6.340221-01	5.235795-01	9.906133-01	6.250868-01	1.073466 00
5.000000 00	1.016666 01	0.005326 00	5.586637-01	4.592833-01	8.709767-01	5.501608-01	9.472150-01
6.000000 00	1.516666 01	0.005326 00	4.706629-01	3.833896-01	7.304024-01	4.623211-01	7.998899-01
6.300000 00	5.674499 00	0.005326 00	4.091716-01	3.299201-01	6.317053-01	4.007594-01	6.969970-01
6.600000 00	6.241499 00	0.005326 00	3.794208-01	3.037671-01	5.836562-01	3.708632-01	6.472532-01
6.900000 00	6.835499 00	0.005326 00	3.492322-01	2.769896-01	5.346568-01	3.404354-01	5.968181-01
7.200000 00	7.456499 00	0.005326 00	3.184553-01	2.492417-01	4.842745-01	3.092522-01	5.455084-01
7.500000 00	8.104499 00	0.005326 00	2.863226-01	2.190890-01	4.305910-01	2.762797-01	4.922401-01
7.756000 00	7.448554 00	0.005326 00	2.536517-01	1.856201-01	3.733401-01	2.416752-01	4.384729-01
8.000000 00	7.572276 00	0.005414 00	0.000000 00	1.580031-01	3.265363-01	2.116652-01	3.907952-01
8.200000 00	6.561327 00	0.005414 00	0.000000 00	1.411917-01	2.968045-01	1.905209-01	3.544623-01
8.400000 00	6.889335 00	0.005414 00	0.000000 00	1.288186-01	2.740658-01	1.744203-01	3.258625-01
8.800000 00	1.479466 01	0.005414 00	0.000000 00	1.139157-01	2.454141-01	1.541832-01	2.886029-01
9.200000 00	1.620266 01	0.005414 00	0.000000 00	9.741994-02	2.123323-01	1.308642-01	2.443661-01
9.500000 00	1.311449 01	0.005414 00	0.000000 00	8.555131-02	1.872975-01	1.132756-01	2.099544-01
9.800000 00	1.396949 01	0.005414 00	0.000000 00	7.682497-02	1.679539-01	9.975877-02	1.829022-01
1.029600 01	2.504372 01	0.005414 00	0.000000 00	6.617530-02	1.422758-01	8.159232-02	1.450717-01

AUG 32 58

C		
9.999669-01	1.581279-01	
9.728481-01	1.541323-01	
9.186086-01	1.462405-01	
8.396660-01	1.349233-01	
7.398340-01	1.209643-01	
6.238045-01	1.054744-01	
5.429690-01	9.512605-02	
5.039636-01	9.044852-02	
4.645077-01	8.594870-02	
4.246274-01	8.171463-02	
3.840067-01	7.811802-02	
3.446608-01	7.697720-02	
3.120749-01	7.726736-02	
2.878353-01	7.634529-02	
2.675928-01	7.433420-02	
2.395403-01	6.983692-02	
2.044940-01	6.250555-02	
1.757656-01	5.507580-02	
1.522514-01	4.807752-02	
1.173813-01	3.610967-02	

AUG 32 58

Oy CH_2 1/2 in.	0.640000 BB	0.06157						
	0.000000 00	9.689165 00	3.388781 00	0.000000 00	2.869572 00			
	0.640000 BB	0.06157						
	0.000000 00	1.864116 01	6.186349 00	0.000000 00	4.945805 00			
	0.640000 BB	0.06157						
	0.000000 00	1.161712 01	3.745467 00	2.551755-01	2.845329 00			
	0.640000 BB	0.06157						
	0.000000 00	2.107237 01	5.828188 00	1.146812 00	4.377632 00			
	0.640000 BB	0.06157						
	0.000000 00	2.175603 01	3.382596 00	3.208671 00	3.226054 00			
	0.640000 BB	0.06157						
	0.000000 00	8.929397 00	-9.021373-01	1.201242 01	3.708511 00			
								AUG 32 58
	-6.880200-01	1.700000 01	1.003773 00	1.000000-05	2.622604-06	0.000000 00	3.871710 01	3.886321 01
								AUG 32 58
	1.000000 00	1.666666-01	0.005264 00	7.919967-01	6.628389-01	1.242929 00	7.812560-01	1.324206 00
	2.000000 00	1.166666 00	0.005264 00	7.719261-01	6.459624-01	1.210928 00	7.610071-01	1.289186 00
	3.000000 00	3.166666 00	0.005264 00	7.311025-01	6.112213-01	1.145236 00	7.194900-01	1.217773 00
	4.000000 00	6.166667 00	0.005264 00	6.712482-01	5.590156-01	1.048115 00	6.581496-01	1.112547 00
	5.000000 00	1.016666 01	0.005264 00	5.953063-01	4.936186-01	9.234316-01	5.794695-01	9.778619-01
Oy	6.000000 00	1.516666 01	0.005264 00	5.070721-01	4.156712-01	7.757317-01	4.864077-01	8.189660-01
	6.400000 00	7.690666 00	0.005264 00	4.408249-01	3.559489-01	6.628034-01	4.153965-01	6.979065-01
	6.800000 00	6.714666 00	0.005264 00	4.015240-01	3.195620-01	5.939507-01	3.721347-01	6.244795-01
	7.200000 00	9.802666 00	0.005264 00	3.618417-01	2.876492-01	5.225796-01	3.274572-01	5.488831-01
	7.472000 00	7.319935 00	0.005264 00	3.280664-01	2.486761-01	4.598326-01	2.883567-01	4.831887-01
	7.744000 00	7.872743 00	0.005264 00	2.997704-01	2.188589-01	4.035303-01	2.536797-01	4.259072-01
	8.016000 00	8.445675 00	0.005264 00	2.710605-01	1.914066-01	3.529797-01	2.213005-01	3.682224-01
	8.288000 00	9.038735 00	0.005352 00	0.000000 00	1.474645-01	2.677535-01	1.704265-01	2.911586-01
	8.560000 00	9.651906 00	0.005352 00	0.000000 00	1.258524-01	2.290057-01	1.412793-01	2.399794-01
CH_2	8.900000 00	1.295782 01	0.005352 00	0.000000 00	1.076863-01	1.900160-01	1.173573-01	1.970943-01
	9.286000 00	1.596014 01	0.005352 00	0.000000 00	9.170961-02	1.569225-01	9.524047-02	1.551547-01
								AUG 32 58
	1.043883 00	1.938571-01						
	1.015301 00	1.916068-01						
	9.580990-01	1.873370-01						
	8.746152-01	1.821325-01						
	7.685152-01	1.780532-01						
	6.442616-01	1.785431-01						
	5.501021-01	1.830232-01						
	4.933298-01	1.892900-01						
	4.353537-01	1.990325-01						
	3.857577-01	2.106065-01						
	3.443423-01	2.258858-01						
	2.997713-01	2.642082-01						
	2.555132-01	3.457749-01						
	2.169207-01	3.131798-01						
	1.796320-01	2.855738-01						
	1.348926-01	2.081043-01						
								AUG 32 58
	-6.880200-01	1.700000 01	1.003773 00	1.000000-05	2.622604-06	0.000000 00	3.871710 01	3.886321 01
								AUG 32 58
	-6.880200-01	1.800000 01	1.003777 00	1.000000-05	4.023313-06	0.000000 00	3.871710 01	3.886336 01

Oy CH_2 0.64000 BB 0.06313
0.000000 00 7.554687 00 2.854243 00 0.000000 00 2.077122 00

0.64000 BB 0.06313
0.000000 00 1.444138 01 5.190765 00 0.000000 00 3.383136 00

0.64000 BB 0.06313
0.000000 00 9.052611 00 3.090069 00 3.871414-01 1.819390 00

0.64000 BB 0.06313
0.000000 00 1.584470 01 4.696394 00 1.669123 00 2.659121 00

0.64000 BB 0.06313
0.000000 00 1.625873 01 2.666517 00 4.574379 00 2.059891 00

0.64000 BB 0.06313
0.000000 00 1.016145 01 -1.706837 00 2.976664 01 5.280135 00

SFP 03 58

-6.880100-01 1.700000 01 1.009782 00 1.000000-05 2.428889-06 0.000000 00 3.048329 01 3.078148 01

SFP 03 58

1.000000 00	1.666666-01	0.005414 00	6.818740-01	5.674781-01	1.061999 00	6.654283-01	1.120813 00
2.000000 00	1.166666 00	0.005414 00	6.655790-01	5.531297-01	1.034695 00	6.480796-01	1.090636 00
3.000000 00	3.166666 00	0.005414 00	6.323620-01	5.234982-01	9.784628-01	6.123858-01	1.028895 00
4.000000 00	6.166667 00	0.005414 00	5.836477-01	4.792690-01	8.946021-01	5.592221-01	9.372924-01
5.000000 00	1.016666 01	0.005414 00	5.220109-01	4.216254-01	7.853347-01	4.901247-01	8.187820-01
Oy 6.000000 00	1.516666 01	0.005414 00	4.510747-01	3.517830-01	6.529487-01	4.067823-01	6.768019-01
6.300000 00	5.674499 00	0.005414 00	4.022383-01	3.015566-01	5.577462-01	3.470684-01	5.756127-01
6.600000 00	6.241499 00	0.005414 00	3.791130-01	2.761653-01	5.096382-01	3.170728-01	5.252071-01
6.900000 00	6.835499 00	0.005414 00	3.556969-01	2.491119-01	4.584587-01	2.853676-01	4.724428-01
7.200000 00	7.456499 00	0.005414 00	3.314298-01	2.180985-01	4.000198-01	2.497169-01	4.144240-01
7.385000 00	4.919463 00	0.005414 00	3.111490-01	1.874614-01	3.425700-01	2.154232-01	3.603007-01
7.477000 00	2.540141 00	0.005414 00	2.995870-01	1.652740-01	3.011426-01	1.912554-01	3.233613-01
7.569000 00	2.603423 00	0.005502 00	0.000000 00	1.519424-01	2.757526-01	1.757630-01	2.999529-01
7.754000 00	5.429881 00	0.005502 00	0.000000 00	1.388855-01	2.500678-01	1.596820-01	2.701431-01
8.000000 00	7.632419 00	0.005502 00	0.000000 00	1.220392-01	2.172086-01	1.369023-01	2.331289-01
CH_2 8.300000 00	9.964498 00	0.005502 00	0.000000 00	1.054004-01	1.851123-01	1.156751-01	1.966177-01
8.600000 00	1.071149 01	0.005502 00	0.000000 00	9.118859-02	1.579940-01	9.772799-02	1.653129-01
9.000000 00	1.549067 01	0.005502 00	0.000000 00	7.858450-02	1.342094-01	8.191977-02	1.372867-01
9.500000 00	2.139583 01	0.005502 00	0.000000 00	6.606844-02	1.108332-01	6.625444-02	1.091080-01
1.001700 01	2.462227 01	0.005502 00	0.000000 00	5.511981-02	9.061812-02	5.200125-02	8.216605-02

SFP 03 59

8.863497-01	2.111797-01
8.617446-01	2.124143-01
8.124027-01	2.153006-01
7.400718-01	2.218084-01
6.475016-01	2.359451-01
5.379831-01	2.651110-01
4.606256-01	2.931767-01
4.225719-01	3.123517-01
3.834085-01	3.360625-01
3.422286-01	3.692780-01
3.062811-01	4.113510-01
2.834990-01	4.504546-01
2.682979-01	4.783107-01
2.483496-01	5.022000-01
2.207544-01	5.200372-01
1.909505-01	5.176886-01
1.632060-01	4.944816-01
1.363319-01	4.476461-01
1.076834-01	3.712278-01
7.629621-02	2.495928-01

TABLE IV

CRITICAL EXPERIMENT CALCULATIONS
(2. Intermediate to Thermal Systems)

								AUG 09 58
H/U^{235} =27 CYL.	8.142700-01	1.100000 01	9.850212-01	1.000000-05	4.298985-06	0.000000 00	1.956566 01	0.000220 00
								AUG 09 58
	0.64000 BB	0.07213						
	0.000000 00	3.381334 00	1.279610 00					
	0.64000 BB	0.07213						
	0.000000 00	6.366932 00	2.097440 00					
	0.64000 BB	0.07213						
	0.000000 00	5.076230 00	9.053224-01					
	0.64000 BB	0.07213						
	0.000000 00	8.535739 00	1.199917 00					
	0.64000 BB	0.07213						
	0.000000 00	1.078240 01	1.061094 00					
	0.64000 BB	0.07213						
	0.000000 00	1.018695 01	6.341187-01					
	0.64000 BB	0.07213						
	0.000000 00	1.042258 01	3.766217-01					
	0.64000 BB	0.07213						
	0.000000 00	1.188589 01	3.819442-01					
	0.64000 BB	0.07213						
	0.000000 00	1.099742 01	3.206169-01					
	0.64000 BB	0.07213						
	0.000000 00	5.246724 00	1.144232-01					
	0.64000 BB	0.07213						
	0.000000 00	4.511184 00	9.057830-02					
	0.64000 BB	0.07213						
	0.000000 00	3.705712 00	9.360032-02					
	0.64000 BB	0.07213						
	0.000000 00	3.333541 00	8.868319-02					
	0.64000 BB	0.07213						
	0.000000 00	3.160270 00	7.054172-02					
	0.64000 BB	0.07213						
	0.000000 00	2.819872 00	4.516783-02					
	0.64000 BB	0.07213						
	0.000000 00	2.108748 00	2.266781-02					
	0.64000 BB	0.07213						
	0.000000 00	1.571942 00	8.370248-03					
	0.64000 BB	0.07213						
	0.000000 00	5.141195 00	1.276763-02					

8.142700-01	1.100000 01	9.850212-01	1.000000-05	4.298985-06	0.000000 00	1.956566 01	1.927250 01

1.000000 00	2.500000-01	0.006220 00	1.086410 00	1.295689 00	2.239574 00	1.212606 00	1.746458 00
2.000000 00	7.500000-01	0.006220 00	1.069046 00	1.280192 00	2.211669 00	1.195466 00	1.720931 00
3.100000 00	1.402499 00	0.006220 00	1.032530 00	1.238326 00	2.138694 00	1.155187 00	1.662700 00
4.100000 00	1.800000 00	0.006220 00	9.796635-01	1.177702 00	2.033248 00	1.097094 00	1.578794 00
5.100000 00	2.300000 00	0.006220 00	9.139728-01	1.104055 00	1.904595 00	1.025815 00	1.475702 00
6.100000 00	2.800000 00	0.006220 00	8.348003-01	1.016986 00	1.752449 00	9.410257-01	1.352906 00
7.100000 00	3.300000 00	0.006220 00	7.431890-01	9.184782-01	1.580125 00	8.444695-01	1.212870 00
8.100000 00	3.799999 00	0.006220 00	6.401600-01	8.104202-01	1.391001 00	7.388126-01	1.058296 00
8.500000 00	1.660000 00	0.006220 00	5.676554-01	7.308428-01	1.251660 00	6.592373-01	9.439419-01
9.000000 00	2.187500 00	0.006220 00	5.094168-01	6.775877-01	1.158376 00	6.064577-01	8.668602-01
9.500000 00	2.312500 00	0.006220 00	4.476596-01	6.173960-01	1.052886 00	5.464873-01	7.795752-01
1.000000 01	2.437500 00	0.006220 00	3.835744-01	5.563752-01	9.457767-01	4.852752-01	6.902072-01
1.050000 01	2.562500 00	0.006220 00	3.154752-01	4.949832-01	8.376157-01	4.227360-01	5.985667-01
1.100000 01	2.687500 00	0.006220 00	2.451034-01	4.338569-01	7.290036-01	3.598474-01	5.029070-01
1.155000 01	3.100624 00	0.006220 00	1.517096-01	3.725676-01	6.177421-01	2.954447-01	4.013943-01

1.743019 00	1.221626 00	8.855117-01	9.685156-01	8.650878-01	3.443574-01	2.842205-01	2.768451-01
1.716636 00	1.202604 00	8.714830-01	9.530531-01	8.512042-01	3.388185-01	2.797426-01	2.723796-01
1.658444 00	1.161815 00	8.419480-01	9.206886-01	8.222204-01	3.272790-01	2.702103-01	2.630728-01
1.574598 00	1.103012 00	7.993166-01	8.739627-01	7.803512-01	3.105925-01	2.564187-01	2.496087-01
1.471442 00	1.030538 00	7.466627-01	8.161382-01	7.284469-01	2.898869-01	2.392935-01	2.328770-01
1.348384 00	9.439309-01	6.836121-01	7.467479-01	6.660307-01	2.649615-01	2.186626-01	2.126999-01
1.207831 00	8.448101-01	6.112728-01	6.669156-01	5.940374-01	2.361738-01	1.948119-01	1.893467-01
1.052353 00	7.348490-01	5.307144-01	5.776771-01	5.133042-01	2.038337-01	1.679847-01	1.632050-01
9.371307-01	6.531343-01	4.706285-01	5.109014-01	4.527433-01	1.795373-01	1.478097-01	1.432644-01
8.593490-01	5.977201-01	4.296310-01	4.651354-01	4.111186-01	1.628056-01	1.338985-01	1.296190-01
7.708134-01	5.343798-01	3.824937-01	4.123468-01	3.630347-01	1.434408-01	1.177849-01	1.136358-01
6.799500-01	4.689863-01	3.334428-01	3.572177-01	3.127864-01	1.231846-01	1.009135-01	9.733031-02
5.862670-01	4.010279-01	2.818375-01	2.991423-01	2.599169-01	1.017689-01	8.307420-02	8.001684-02
4.875001-01	3.290005-01	2.270805-01	2.374004-01	2.040842-01	7.933111-02	6.438440-02	6.185333-02
3.658985-01	2.354787-01	1.537739-01	1.570408-01	1.331180-01	5.028222-02	4.034702-02	3.946870-02

2.601654-01	2.207487-01	1.587399-01	9.101958-02	4.154184-02	8.592234-02
2.559597-01	2.171736-01	1.561680-01	8.954624-02	4.087052-02	8.453791-02
2.471890-01	2.097237-01	1.508116-01	8.647621-02	3.946926-02	8.163999-02
2.344976-01	1.989353-01	1.430476-01	8.202372-02	3.743766-02	7.743778-02
2.187148-01	1.855104-01	1.333814-01	7.647902-02	3.490667-02	7.219962-02
1.996640-01	1.692942-01	1.216998-01	6.977757-02	3.184925-02	6.587231-02
1.775927-01	1.504923-01	1.081480-01	6.200141-02	2.829977-02	5.852263-02
1.527212-01	1.292892-01	9.285502-02	5.322429-02	2.429614-02	5.023254-02
1.340026-01	1.133244-01	8.133269-02	4.660779-02	2.127358-02	4.396884-02
1.211002-01	1.023182-01	7.338446-02	4.204490-02	1.919887-02	3.967375-02
1.061914-01	8.959908-02	6.418571-02	3.675092-02	1.677295-02	3.466138-02
9.064021-02	7.634438-02	5.460091-02	3.124397-02	1.427765-02	2.946389-02
7.439334-02	6.247976-02	4.451158-02	2.538933-02	1.157227-02	2.389919-02
5.746118-02	4.813565-02	3.414024-02	1.941191-02	8.870223-03	1.803814-02
3.688153-02	3.041862-02	2.093113-02	1.151319-02	5.046632-03	9.536678-03

H/U^{235} =52.9 BARE

AUG 01 58

1.700000 01	1.600000 01	1.029761 00	1.000000-06	5.008495-05	1.882936 02	1.828685 02	1.071307 03

AUG 01 58

0.64000 BB	0.05022						
0.000000 00	3.112672 01	1.187142 01					
0.64000 BB	0.05022						
0.000000 00	5.860392 01	1.926925 01					
0.64000 BB	0.05022						
0.000000 00	4.725648 01	7.972548 00					
0.64000 BB	0.05022						
0.000000 00	7.971775 01	1.043339 01					
0.64000 BB	0.05022						
0.000000 00	1.013154 02	9.172746 00					
0.64000 BB	0.05022						
0.000000 00	9.670128 01	5.490403 00					
0.64000 BB	0.05022						
0.000000 00	1.009290 02	3.270149 00					
0.64000 BB	0.05022						
0.000000 00	1.169134 02	3.404799 00					
0.64000 BB	0.05022						
0.000000 00	1.111739 02	3.025908 00					
0.64000 BB	0.05022						
0.000000 00	5.414250 01	1.238813 00					
0.64000 BB	0.05022						
0.000000 00	4.960511 01	1.075185 00					
0.64000 BB	0.05022						
0.000000 00	4.411564 01	1.089068 00					
0.64000 BB	0.05022						
0.000000 00	4.135422 01	1.046080 00					
0.64000 BB	0.05022						
0.000000 00	4.008622 01	9.138404-01					
0.64000 BB	0.05022						
0.000000 00	3.757318 01	6.961881-01					
0.64000 BB	0.05022						
0.000000 00	3.056818 01	3.983057-01					
0.64000 BB	0.05022						
0.000000 00	2.492863 01	1.783873-01					
0.64000 BB	0.05022						
0.000000 00	1.558062 02	4.257422-01					

AUG 01 58

1.700000 01	1.700000 01	1.029791 00	1.000000-06	2.908880-05	1.882893 02	1.828516 02	1.071132 03

AUG 01 58

1.000000 00	1.666666-01	0.006056 00	8.655014-01	9.212561-01	1.591729 00	8.628919-01	1.242460 00
2.000000 00	1.166666 00	0.006056 00	8.556817-01	9.121560-01	1.575626 00	8.535445-01	1.228783 00
3.000000 00	3.166666 00	0.006056 00	8.358253-01	8.927761-01	1.541705 00	8.344619-01	1.201067 00
4.000000 00	6.166667 00	0.006056 00	8.065029-01	8.632806-01	1.490317 00	8.059279-01	1.159747 00

5.000000 00	1.016666 01	0.006056 00	7.682902-01	8.242128-01	1.422415 00	7.684782-01	1.105602 00
6.000000 00	1.516666 01	0.006056 00	7.217103-01	7.763904-01	1.339402 00	7.228572-01	1.039700 00
7.000000 00	2.116666 01	0.006056 00	6.679449-01	7.208258-01	1.243003 00	6.699676-01	9.633411-01
8.000000 00	2.816666 01	0.006056 00	6.074483-01	6.587224-01	1.135268 00	6.108690-01	8.780300-01
9.000000 00	3.616666 01	0.006056 00	5.419811-01	5.913773-01	1.018404 00	5.467052-01	7.854244-01
1.000000 01	4.516666 01	0.006056 00	4.714423-01	5.202688-01	8.949331-01	4.787339-01	6.872559-01
1.100000 01	5.516666 01	0.006056 00	3.984615-01	4.468053-01	7.672674-01	4.082924-01	5.855856-01
1.200000 01	6.616666 01	0.006056 00	3.208983-01	3.728978-01	6.386029-01	3.364738-01	4.813909-01
1.300000 01	7.816667 01	0.006056 00	2.460664-01	2.996273-01	5.115595-01	2.668852-01	3.814121-01
1.470000 01	1.632538 02	0.006056 00	1.269840-01	2.069430-01	3.482352-01	1.710704-01	2.398637-01
							AUG 01 58
1.246447 00	8.823272-01	6.471901-01	7.240137-01	6.778075-01	2.985065-01	2.673149-01	2.625113-01
1.232537 00	8.723810-01	6.398442-01	7.157524-01	6.700422-01	2.950809-01	2.642431-01	2.594895-01
1.204546 00	8.524707-01	6.251884-01	6.992997-01	6.545930-01	2.882669-01	2.581346-01	2.534827-01
1.162919 00	8.229168-01	6.034611-01	6.749375-01	6.317328-01	2.781864-01	2.490996-01	2.446007-01
1.108446 00	7.842821-01	5.750869-01	6.431331-01	6.019000-01	2.650368-01	2.373146-01	2.330126-01
1.042186 00	7.372976-01	5.405718-01	6.044651-01	5.656344-01	2.490468-01	2.229847-01	2.189276-01
9.654520-01	6.829145-01	5.006574-01	5.597299-01	5.236724-01	2.305529-01	2.064089-01	2.026235-01
8.797183-01	6.221164-01	4.559719-01	5.096656-01	4.766991-01	2.098316-01	1.878338-01	1.843623-01
7.867067-01	5.562236-01	4.076269-01	4.554233-01	4.257589-01	1.873719-01	1.676923-01	1.645282-01
6.879803-01	4.861017-01	3.559715-01	3.974886-01	3.713032-01	1.633121-01	1.461035-01	1.432878-01
5.859623-01	4.139121-01	3.030157-01	3.378299-01	3.150363-01	1.384593-01	1.237757-01	1.212405-01
4.804982-01	3.384832-01	2.471453-01	2.749154-01	2.556016-01	1.121131-01	1.000873-01	9.789380-02
3.806365-01	2.677242-01	1.946991-01	2.145856-01	1.978101-01	8.643552-02	7.690565-02	7.488675-02
2.333782-01	1.588070-01	1.107383-01	1.193478-01	1.083389-01	4.669887-02	4.123646-02	4.019990-02
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2.522369-01	2.298167-01	1.891793-01	1.221811-01	6.610256-02	2.348215-01		
2.493292-01	2.271647-01	1.869952-01	1.207722-01	6.534536-02	2.321936-01		
2.435498-01	2.218935-01	1.826526-01	1.179665-01	6.382622-02	2.267764-01		
2.350048-01	2.140998-01	1.762316-01	1.138170-01	6.157968-02	2.188030-01		
2.238571-01	2.039343-01	1.678595-01	1.084113-01	5.865829-02	2.084212-01		
2.103063-01	1.915738-01	1.576745-01	1.018273-01	5.509052-02	1.957432-01		
1.946182-01	1.772664-01	1.458915-01	9.422152-02	5.098292-02	1.811380-01		
1.770416-01	1.612247-01	1.326658-01	8.566722-02	4.634471-02	1.646528-01		
1.579396-01	1.437949-01	1.183084-01	7.640282-02	4.134407-02	1.468437-01		
1.374705-01	1.250878-01	1.028650-01	6.640484-02	3.592077-02	1.275862-01		
1.161931-01	1.056511-01	8.684412-02	5.606722-02	3.034269-02	1.076398-01		
9.365266-02	8.501641-02	6.978697-02	4.501781-02	2.434145-02	8.643680-02		
7.141379-02	6.470977-02	5.306089-02	3.425890-02	1.859697-02	6.620729-02		
3.829360-02	3.448341-02	2.796078-02	1.778619-02	9.496948-03	3.217374-02		

H/U^{235} =204 BARE

AUG 01 58

-1.332999-01 3.600000 01 1.006671 00 1.000000-05 4.311842-06 6.592600 01 6.548797 01 1.380081 02

AUG 01 58

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0.000000 00 1.403324 01 1.479197-01

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0.000000 00 3.218624 02 9.317924-01

AUG 01 58

-1.332999-01 3.700000 01 1.006676 00 1.000000-05 4.588296-06 6.593259 01 6.548908 01 1.380075 02

AUG 01 58

1.000000 00	1.666666-01	0.006204 00	2.494765-01	2.804529-01	4.836112-01	2.614404-01	3.757144-01
2.000000 00	1.166666 00	0.006204 00	2.469774-01	2.780468-01	4.793553-01	2.589703-01	3.721086-01
3.000000 00	3.166666 00	0.006204 00	2.419642-01	2.729188-01	4.703879-01	2.539294-01	3.648026-01
4.000000 00	6.166667 00	0.006204 00	2.345467-01	2.650941-01	4.567722-01	2.463793-01	3.538929-01

5.000000 00	1.016666 01	0.006204 00	2.248574-01	2.546966-01	4.387274-01	2.364451-01	3.395614-01
6.000000 00	1.516666 01	0.006204 00	2.130321-01	2.419165-01	4.165800-01	2.243016-01	3.220588-01
7.000000 00	2.116666 01	0.006204 00	1.993087-01	2.269941-01	3.907397-01	2.101630-01	3.016921-01
8.000000 00	2.816666 01	0.006204 00	1.838449-01	2.102130-01	3.616883-01	1.942802-01	2.788190-01
9.000000 00	3.616666 01	0.006204 00	1.669696-01	1.918868-01	3.299592-01	1.769285-01	2.538337-01
1.000000 01	4.516666 01	0.006204 00	1.488032-01	1.723613-01	2.961404-01	1.584100-01	2.271656-01
1.100000 01	5.516666 01	0.006204 00	1.297606-01	1.519968-01	2.608457-01	1.390378-01	1.992613-01
1.200000 01	6.616666 01	0.006204 00	1.098138-01	1.311815-01	2.247383-01	1.191474-01	1.705891-01
1.300000 01	7.816667 01	0.006204 00	8.948660-02	1.102975-01	1.884754-01	9.907625-02	1.416343-01
1.400000 01	9.116667 01	0.006204 00	6.831839-02	8.974868-02	1.527635-01	7.916319-02	1.128124-01
1.500000 01	1.051666 02	0.006204 00	4.689981-02	6.978991-02	1.180662-01	5.986756-02	8.499201-02
1.600000 01	1.201666 02	0.006204 00	2.246291-02	5.155939-02	8.579071-02	4.049939-02	5.616783-02
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3.780035-01	2.694186-01	1.993126-01	2.268054-01	2.204192-01	1.058781-01	1.020209-01	1.008832-01
3.743301-01	2.667763-01	1.973446-01	2.245553-01	2.182247-01	1.048222-01	1.010022-01	9.987485-02
3.669360-01	2.614843-01	1.934171-01	2.200725-01	2.138569-01	1.027214-01	9.897599-02	9.786927-02
3.559224-01	2.536169-01	1.875864-01	2.134247-01	2.073841-01	9.960912-02	9.597474-02	9.489902-02
3.414729-01	2.433044-01	1.799495-01	2.047220-01	1.989139-01	9.553728-02	9.204861-02	9.101370-02
3.238379-01	2.307240-01	1.706352-01	1.941115-01	1.885890-01	9.057410-02	8.726322-02	8.627819-02
3.033256-01	2.160944-01	1.598067-01	1.817762-01	1.765858-01	8.480418-02	8.169971-02	8.077213-02
2.802937-01	1.996677-01	1.476452-01	1.679235-01	1.631041-01	7.832228-02	7.544889-02	7.458514-02
2.551387-01	1.817282-01	1.343669-01	1.527912-01	1.483712-01	7.123729-02	6.961471-02	6.781829-02
2.282875-01	1.625715-01	1.201734-01	1.366138-01	1.326107-01	6.365353-02	6.129642-02	6.056971-02
2.001910-01	1.425286-01	1.053321-01	1.196706-01	1.160817-01	5.569482-02	5.361123-02	5.295119-02
1.712924-01	1.218731-01	8.998289-02	1.021340-01	9.894489-02	4.743115-02	4.562435-02	4.502950-02
1.421001-01	1.010187-01	7.450766-02	8.436045-02	8.150807-02	3.901061-02	3.747603-02	3.693603-02
1.128415-01	7.988793-02	5.861369-02	6.605956-02	6.351290-02	3.030321-02	2.904508-02	2.856883-02
8.475244-02	5.963902-02	4.327152-02	4.810443-02	4.573438-02	2.169234-02	2.070730-02	2.029884-02
5.430474-02	3.668844-02	2.522718-02	2.735040-02	2.562335-02	1.203991-02	1.143333-02	1.119989-02
							AUG 01 58
9.865788-02	9.549061-02	8.916793-02	6.481558-02	4.214302-02	4.831295-01		
9.767070-02	9.453417-02	8.827395-02	6.416543-02	4.172058-02	4.782845-01		
9.570745-02	9.263227-02	8.649650-02	6.287295-02	4.088010-02	4.685424-01		
9.280019-02	8.981607-02	8.386476-02	6.095926-02	3.963549-02	4.541349-01		
8.899750-02	8.613265-02	8.042272-02	5.845682-02	3.800883-02	4.353231-01		
8.436265-02	8.164298-02	7.622705-02	5.540576-02	3.602409-02	4.123584-01		
7.897317-02	7.642195-02	7.134760-02	5.185839-02	3.371866-02	3.857219-01		
7.291603-02	7.055284-02	6.586116-02	4.786763-02	3.112176-02	3.556896-01		
6.628920-02	6.413017-02	5.985606-02	4.350177-02	2.828527-02	3.229358-01		
5.918725-02	5.724353-02	5.341372-02	3.881260-02	2.523188-02	2.876394-01		
5.171812-02	4.999772-02	4.663343-02	3.388304-02	2.203081-02	2.506611-01		
4.394596-02	4.245188-02	3.956613-02	2.873203-02	1.867276-02	2.118708-01		
3.599970-02	3.473624-02	3.234152-02	2.348078-02	1.526481-02	1.723316-01		
2.778837-02	2.676338-02	2.487269-02	1.802723-02	1.170525-02	1.310874-01		
1.968870-02	1.891778-02	1.753829-02	1.268796-02	8.236196-03	8.895150-02		
1.084476-02	1.038146-02	9.562482-03	6.784655-03	4.295092-03	4.049479-02		

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H/U^{235} =47 REFL.	8.447000-01	3.300000 01	9.945761-01	1.000000-04	-6.266743-04	3.399999 01	3.439666 01	6.727059 01
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	0.64000 BB	0.05526						
	0.000000 00	9.132428 00	3.633554 00	2.232484 00	2.416453-01			
	0.64000 BB	0.05526						
	0.000000 00	1.873257 01	5.962546 00	7.065009 00	3.016363-01			
	0.64000 BB	0.05526						
	0.000000 00	1.387692 01	2.485378 00	7.629511 00	7.364759-02			
	0.64000 BB	0.05526						
	0.000000 00	2.319910 01	2.989530 00	1.579682 01	9.367623-02			
	0.64000 BB	0.05526						
	0.000000 00	2.588674 01	2.258630 00	2.232955 01	9.339036-07			
	0.64000 BB	0.05526						
	0.000000 00	2.371410 01	1.030356 00	2.483685 01	5.896390-02			
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	0.000000 00	2.395098 01	4.765976-01	2.824299 01	3.616080-02			
	0.64000 BB	0.05526						
	0.000000 00	2.667017 01	4.602235-01	3.406321 01	4.112191-02			
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	0.000000 00	2.472207 01	3.361163-01	3.502009 01	4.110550-02			
	0.64000 BB	0.05526						
	0.000000 00	1.260884 01	3.534561-02	2.027943 01	1.912651-02			
	0.64000 BB	0.05526						
	0.000000 00	1.101013 01	-1.780509-02	2.035625 01	1.917867-02			
	0.64000 BB	0.05526						
	0.000000 00	9.970170 00	1.424487-02	2.037600 01	1.911550-02			
	0.64000 BB	0.05526						
	0.000000 00	9.361970 00	2.053780-02	2.031392 01	1.893055-02			
	0.64000 BB	0.05526						
	0.000000 00	8.677136 00	-2.122139-02	2.033945 01	1.897093-02			
	0.64000 BB	0.05526						
	0.000000 00	7.373107 00	-9.671210-02	2.010639 01	1.889254-02			
	0.64000 BB	0.05526						
	0.000000 00	5.476837 00	-7.105058-02	1.752866 01	7.703284-03			
	0.64000 BB	0.05526						
	0.000000 00	4.923976 00	-1.151090-01	2.030948 01	6.826836-03			
	0.64000 BB	0.05526						
	0.000000 00	2.213350 01	-2.745055 00	1.086584 03	2.737328-01			
								AUG 01 58
	8.447000-01	3.400000 01	9.939361-01	1.000000-04	-6.434737-04	3.377278 01	3.418541 01	6.639094 01
								AUG 01 58
	1.000000 00	1.666666-01	0.006562 00	1.650626-01	2.502121-01	4.620302-01	2.480243-01	3.655738-01
	2.000000 00	1.166666 00	0.006562 00	1.634739-01	2.479013-01	4.576454-01	2.455724-01	3.619231-01
	3.000000 00	3.166666 00	0.006562 00	1.600248-01	2.430962-01	4.486369-01	2.406215-01	3.545876-01
	4.000000 00	6.166667 00	0.006562 00	1.549826-01	2.358863-01	4.351892-01	2.332842-01	3.437277-01

5.000000 00	1.016666 01	0.006562 00	1.484724-01	2.264257-01	4.175952-01	2.237237-01	3.295774-01
6.000000 00	1.516666 01	0.006562 00	1.405116-01	2.149306-01	3.962570-01	2.121616-01	3.124495-01
7.000000 00	2.116666 01	0.006562 00	1.315719-01	2.016602-01	3.716569-01	1.988677-01	2.927223-01
8.000000 00	2.816666 01	0.006562 00	1.216548-01	1.869240-01	3.443641-01	1.841637-01	2.708364-01
8.500000 00	1.702083 01	0.006562 00	1.144156-01	1.751967-01	3.226465-01	1.724867-01	2.534014-01
9.000000 00	1.914583 01	0.006562 00	1.090236-01	1.671158-01	3.076479-01	1.644189-01	2.412796-01
9.500000 00	2.139583 01	0.006562 00	1.059776-01	1.590865-01	2.926491-01	1.562884-01	2.289579-01
1.000000 01	2.377083 01	0.006562 00	1.026455-01	1.517429-01	2.786565-01	1.484795-01	2.169092-01
1.050000 01	2.627083 01	0.006562 00	1.109014-01	1.461412-01	2.674631-01	1.417843-01	2.055935-01
1.100000 01	2.889583 01	0.006562 00	1.377491-01	1.420684-01	2.591320-01	1.368732-01	1.960940-01
1.143000 01	2.704519 01	0.006562 00	2.517975-01	1.259996-01	2.305866-01	1.221252-01	1.757445-01
1.200000 01	3.912146 01	0.007024 00	0.000000 00	9.739179-02	1.795781-01	9.475783-02	1.402088-01
1.300000 01	7.816667 01	0.007024 00	0.000000 00	6.921078-02	1.291699-01	6.643165-02	1.012218-01
1.500000 01	1.963333 02	0.007024 00	0.000000 00	4.275355-02	7.915874-02	3.975830-02	6.183355-02
1.800000 01	4.095000 02	0.007024 00	0.000000 00	2.212039-02	4.023607-02	1.986838-02	2.939516-02
2.200000 01	8.026667 02	0.007024 00	0.000000 00	9.716673-03	1.691771-02	7.166516-03	1.097100-02
2.600000 01	1.154666 03	0.007024 00	0.000000 00	3.714466-03	6.062116-03	2.340693-03	3.511981-03
2.900000 01	1.135500 03	0.007024 00	0.000000 00	1.609002-03	2.464730-03	9.047383-04	1.327055-03
3.100000 01	9.003333 02	0.007024 00	0.000000 00	8.742550-04	1.238725-03	4.058280-04	5.699734-04
							AUG 01 58
3.662615-01	2.591120-01	1.890949-01	2.086390-01	1.889384-01	7.741146-02	6.555988-02	6.389696-02
3.625796-01	2.564885-01	1.871669-01	2.064984-01	1.869888-01	7.661044-02	6.488029-02	6.323366-02
3.552098-01	2.512590-01	1.833334-01	2.022454-01	1.831168-01	7.502035-02	6.353154-02	6.191747-02
3.443013-01	2.435220-01	1.776645-01	1.959567-01	1.773924-01	7.267004-02	6.153850-02	5.997363-02
3.300764-01	2.334272-01	1.702658-01	1.877458-01	1.699185-01	6.960224-02	5.893825-02	5.744027-02
3.128251-01	2.211647-01	1.612695-01	1.777541-01	1.608251-01	6.587180-02	5.577965-02	5.436938-02
2.928896-01	2.069531-01	1.508245-01	1.661415-01	1.502649-01	6.154627-02	5.212595-02	5.083191-02
2.706470-01	1.910179-01	1.390789-01	1.530721-01	1.384110-01	5.671011-02	4.806442-02	4.693185-02
2.528272-01	1.781875-01	1.295958-01	1.425191-01	1.288744-01	5.284109-02	4.483973-02	4.386418-02
2.403171-01	1.691049-01	1.228560-01	1.350277-01	1.221512-01	5.014140-02	4.262151-02	4.178672-02
2.274663-01	1.596951-01	1.158496-01	1.272601-01	1.152399-01	4.740989-02	4.041946-02	3.975201-02
2.144547-01	1.499808-01	1.085707-01	1.192342-01	1.081905-01	4.468320-02	3.828902-02	3.783267-02
2.016144-01	1.399932-01	1.010129-01	1.109759-01	1.010900-01	4.210084-02	3.640316-02	3.613703-02
1.890693-01	1.294334-01	9.299534-02	1.024494-01	9.398168-02	3.964831-02	3.478075-02	3.476974-02
1.706272-01	1.176304-01	8.506174-02	9.454370-02	8.797264-02	3.840972-02	3.458884-02	3.431883-02
1.426404-01	1.025458-01	7.588369-02	8.580126-02	8.172075-02	3.775467-02	3.520751-02	3.422380-02
1.085049-01	8.149905-02	6.195318-02	7.176751-02	7.034723-02	3.404628-02	3.282773-02	3.199554-02
6.909812-02	5.354797-02	4.163019-02	4.959277-02	5.022148-02	2.509660-02	2.493169-02	2.467400-02
3.373513-02	2.659613-02	2.095679-02	2.557828-02	2.673647-02	1.368480-02	1.391746-02	1.406707-02
1.269534-02	1.002215-02	7.895507-03	9.697238-03	1.027372-02	5.299991-03	5.439999-03	5.564287-03
4.027645-03	3.154486-03	2.470154-03	3.006090-03	3.154004-03	1.619888-03	1.655428-03	1.685553-03
1.489460-03	1.150104-03	8.901613-04	1.068901-03	1.106191-03	5.637421-04	5.731831-04	5.805661-04
6.165653-04	4.530021-04	3.329661-04	3.876874-04	3.924711-04	1.962019-04	1.969918-04	1.977161-04
							AUG 01 58
6.054549-02	5.250940-02	3.914592-02	1.877783-02	1.264426-02	2.695581-02		
5.991649-02	5.196365-02	3.873882-02	1.858255-02	1.251424-02	2.674833-02		
5.866874-02	5.088152-02	3.793194-02	1.819504-02	1.225262-02	2.615729-02		
5.682744-02	4.928597-02	3.674304-02	1.762398-02	1.186738-02	2.531559-02		
5.443138-02	4.721290-02	3.520033-02	1.688320-02	1.136908-02	2.425092-02		
5.153495-02	4.471387-02	3.334512-02	1.599148-02	1.076686-02	2.291076-02		
4.821535-02	4.186431-02	3.124022-02	1.498007-02	1.008807-02	2.148744-02		
4.458811-02	3.877972-02	2.898588-02	1.389498-02	9.355551-03	1.985348-02		
4.176271-02	3.640312-02	2.727433-02	1.307368-02	8.811933-03	1.887795-02		
3.987641-02	3.484418-02	2.618178-02	1.254449-02	8.443743-03	1.791029-02		
3.805403-02	3.337180-02	2.519982-02	1.208535-02	8.168919-03	1.825951-02		
3.636235-02	3.204746-02	2.438244-02	1.169050-02	7.878761-03	1.834168-02		
3.489018-02	3.099221-02	2.394101-02	1.155686-02	7.928546-03	2.500882-02		
3.372501-02	3.024517-02	2.385540-02	1.164555-02	8.132413-03	4.280983-02		
3.325691-02	3.043180-02	2.529659-02	1.287915-02	1.022823-02	1.119221-01		
3.299919-02	3.110741-02	2.781156-02	1.511667-02	1.427028-02	2.511393-01		
3.086064-02	2.978025-02	2.795143-02	1.570456-02	1.593248-02	3.908394-01		
2.424905-02	2.388287-02	2.313656-02	1.311458-02	1.361460-02	4.376238-01		
1.411336-02	1.420345-02	1.411913-02	8.021194-03	8.411312-03	3.188359-01		
5.658543-03	5.775509-03	5.829003-03	3.305635-03	3.474333-03	1.405393-01		
1.708382-03	1.740608-03	1.755682-03	9.980671-04	1.051789-03	4.688869-02		
5.841064-04	5.901411-04	5.899386-04	3.330280-04	3.471059-04	1.809494-02		
1.981635-04	1.998197-04	1.991800-04	1.130864-04	1.198660-04	5.526929-03		

								JUL 31 58
H/U^{235} =269 REFL.	-1.331000-01	6.000000 00	1.009131 00	1.000000-05	1.527789-04	1.666881 01	1.658763 01	1.545398 01
								JUL 31 58
	0.64000 BB	0.05150						
	0.000000 00	4.615183 00	1.467741 00	0.000000 00	1.467741 00	8.290523-01	2.036086-01	
	0.64000 BB	0.05150						
	0.000000 00	9.710974 00	2.374643 00	0.000000 00	2.374643 00	2.619265 00	2.730692-01	
	0.64000 BB	0.05150						
	0.000000 00	7.455379 00	9.359702-01	0.000000 00	9.359702-01	2.805613 00	7.043083-02	
	0.64000 BB	0.05150						
	0.000000 00	1.273587 01	1.137889 00	0.000000 00	1.137888 00	5.783933 00	9.032251-02	
	0.64000 BB	0.05150						
	0.000000 00	1.461168 01	9.120400-01	0.000000 00	9.120399-01	8.189216 00	9.077782-02	
	0.64000 BB	0.05150						
	0.000000 00	1.381191 01	4.518363-01	0.000000 00	4.518363-01	9.142164 00	5.740885-02	
	0.64000 BB	0.05150						
	0.000000 00	1.434977 01	2.243020-01	0.000000 00	2.243020-01	1.043237 01	3.527477-02	
	0.64000 BB	0.05150						
	0.000000 00	1.638233 01	2.386428-01	0.000000 00	2.386428-01	1.263066 01	4.037088-02	
	0.64000 BB	0.05150						
	0.000000 00	1.593715 01	2.167866-01	0.000000 00	2.167866-01	1.307872 01	4.065879-02	
	0.64000 BB	0.05150						
	0.000000 00	8.835737 00	8.181492-02	0.000000 00	8.181491-02	7.635266 00	1.897050-02	
	0.64000 BB	0.05150						
	0.000000 00	8.553604 00	7.336368-02	0.000000 00	7.336368-02	7.731231 00	1.902406-02	
	0.64000 BB	0.05150						
	0.000000 00	8.327948 00	7.506357-02	0.000000 00	7.506356-02	7.805573 00	1.908001-02	
	0.64000 BB	0.05150						
	0.000000 00	8.138873 00	7.346287-02	0.000000 00	7.346287-02	7.844365 00	1.907269-02	
	0.64000 BB	0.05150						
	0.000000 00	7.971590 00	6.627152-02	0.000000 00	6.627152-02	7.921101 00	1.920354-02	
	0.64000 BB	0.05150						
	0.000000 00	7.598934 00	5.112905-02	0.000000 00	5.112904-02	7.913929 00	1.914673-02	
	0.64000 BB	0.05150						
	0.000000 00	6.395410 00	1.347876-02	0.000000 00	1.347876-02	6.948113 00	8.569352-03	
	0.64000 BB	0.05150						
	0.000000 00	6.994168 00	7.221722-04	0.000000 00	7.221672-04	8.106992 00	8.195527-03	
	0.64000 BB	0.05150						
	0.000000 00	1.052817 02	-5.205911-01	0.000000 00	-5.205912-01	2.850913 02	1.366236-01	
								JUL 31 58
	-1.331000-01	7.000000 00	1.009245 00	1.000000-05	1.130319-04	1.660203 01	1.651798 01	1.530677 01
								JUL 31 58
	2.000000 00	1.333333 00	0.006204 00	6.881356-02	1.039982-01	1.916667-01	1.018258-01	1.495539-01
	4.000000 00	9.333333 00	0.006204 00	6.597718-02	1.005733-01	1.852083-01	9.830657-02	1.442875-01
	7.000000 00	4.650000 01	0.006204 00	5.915069-02	9.026290-02	1.660197-01	8.793338-02	1.289580-01
	9.000000 00	6.433333 01	0.006204 00	4.967360-02	7.541792-02	1.386543-01	7.335670-02	1.075872-01

1.100000 01	1.033333 02	0.006204 00	3.925571-02	6.184362-02	1.133611-01	5.965748-02	8.712192-02
1.320000 01	1.614946 02	0.006204 00	3.627105-02	4.391968-02	8.027937-02	4.177991-02	6.097664-02
1.333000 01	8.778158 00	0.000000 00	0.000000 00	3.099991-02	5.692161-02	2.941425-02	4.375963-02
1.332700 01	2.392861 00	0.000000 00	0.000000 00	3.056407-02	5.626731-02	2.919219-02	4.354978-02
1.400000 01	6.283431 01	0.006446 00	0.000000 00	2.682559-02	4.944936-02	2.546446-02	3.838615-02
1.600000 01	2.253333 02	0.006446 00	0.000000 00	1.765493-02	3.250067-02	1.623808-02	2.500124-02
1.800000 01	2.893333 02	0.006446 00	0.000000 00	9.795219-03	1.780728-02	8.385462-03	1.305985-02
2.000000 01	3.613333 02	0.006446 00	0.000000 00	6.051782-03	1.074518-02	4.775333-03	7.350869-03
2.200000 01	4.413333 02	0.006446 00	0.000000 00	3.794585-03	6.556426-03	2.766216-03	4.222129-03
2.400000 01	5.293333 02	0.006446 00	0.000000 00	2.408517-03	4.041903-03	1.634735-03	2.469519-03
2.600000 01	6.253333 02	0.006446 00	0.000000 00	1.541007-03	2.503411-03	9.721317-04	1.447675-03
2.832700 01	8.590200 02	0.006446 00	0.000000 00	9.315881-04	1.422792-03	4.985748-04	7.136753-04
							JUL 31 58
1.507974-01	1.080564-01	7.999330-02	9.091944-02	8.800665-02	4.207764-02	4.049288-02	3.996220-02
1.453443-01	1.040537-01	7.698331-02	8.745496-02	8.461782-02	4.044219-02	3.890850-02	3.839739-02
1.298108-01	9.287329-02	6.868166-02	7.798744-02	7.541983-02	3.603735-02	3.466462-02	3.420195-02
1.083164-01	7.749215-02	5.728448-02	6.498954-02	6.280268-02	3.000157-02	2.885422-02	2.846379-02
8.727225-02	6.213708-02	4.578931-02	5.187757-02	5.013684-02	2.394870-02	2.304606-02	2.277442-02
6.131782-02	4.380079-02	3.240782-02	3.699621-02	3.610382-02	1.740649-02	1.689391-02	1.677684-02
4.545686-02	3.335999-02	2.508767-02	2.903872-02	2.875062-02	1.409413-02	1.384761-02	1.377049-02
4.536013-02	3.335435-02	2.509801-02	2.905271-02	2.876637-02	1.410455-02	1.385879-02	1.377881-02
4.073277-02	3.039837-02	2.306766-02	2.688534-02	2.679288-02	1.323625-02	1.307304-02	1.299271-02
2.765566-02	2.128452-02	1.646385-02	1.956908-02	1.988558-02	9.992446-03	1.000383-02	9.993530-03
1.498009-02	1.180520-02	9.285434-03	1.129723-02	1.177662-02	6.019570-03	6.119608-03	6.188305-03
8.456697-03	6.661845-03	5.240842-03	6.414507-03	6.757131-03	3.475286-03	3.554841-03	3.620976-03
4.867048-03	3.832471-03	3.011051-03	3.682478-03	3.883642-03	1.999283-03	2.048032-03	2.090387-03
2.832777-03	2.221000-03	1.740042-03	2.121581-03	2.230768-03	1.146789-03	1.173532-03	1.196652-03
1.643669-03	1.278144-03	9.942881-04	1.199325-03	1.248668-03	6.390025-04	6.513686-04	6.618757-04
7.845131-04	5.846142-04	4.352205-04	5.127262-04	5.251147-04	2.645735-04	2.676836-04	2.703267-04
							JUL 31 58
3.906276-02	3.771587-02	3.492895-02	1.914111-02	1.807813-02	1.719891-01		
3.753104-02	3.623017-02	3.353961-02	1.837634-02	1.734555-02	1.647980-01		
3.342392-02	3.226174-02	2.986497-02	1.636247-02	1.544376-07	1.480778-01		
2.781690-02	2.685626-02	2.487152-02	1.363013-02	1.287682-02	1.246949-01		
2.229703-02	2.155687-02	1.998128-02	1.093426-02	1.029372-02	9.808611-02		
1.650561-02	1.606939-02	1.507171-02	8.293702-03	7.934395-03	9.660471-02		
1.359357-02	1.336142-02	1.277809-02	7.132398-03	7.107313-03	1.131534-01		
1.360092-02	1.337017-02	1.279002-02	7.137857-03	7.115345-03	1.131910-01		
1.283445-02	1.266614-02	1.221927-02	6.865477-03	6.971883-03	1.228094-01		
9.927039-03	9.893019-03	9.711139-03	5.504266-03	5.731468-03	1.242983-01		
6.216743-03	6.270518-03	6.253830-03	3.554095-03	3.735480-03	9.428636-02		
3.666524-03	3.726962-03	3.746262-03	2.128039-03	2.239323-03	5.705254-02		
2.121927-03	2.163200-03	2.181840-03	1.239133-03	1.304791-03	3.311999-02		
1.214024-03	1.237401-03	1.248182-03	7.090847-04	7.475599-04	1.900283-02		
6.692124-04	6.800947-04	6.842208-04	3.891317-04	4.094361-04	1.024393-02		
2.719422-04	2.752437-04	2.758836-04	1.545057-04	1.612587-04	3.778755-03		

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REFL.

								JUL 31 58
5.010100 00	2.700000 01	1.007430 00	1.000000-04	-3.278919-04	1.902577 01	1.892669 01	1.911612 01	
							JUL 31 58	
5.010100 00	2.800000 01	1.007099 00	1.000000-04	-3.287352-04	1.897876 01	1.888544 01	1.902150 01	
							JUL 31 58	
0.64000 BB	0.05126							
0.000000 00	5.275726 00	1.659219 00	9.944629-01	1.382012-01				
0.64000 BB	0.05126							
0.000000 00	1.111347 01	2.683888 00	3.130222 00	1.748354-01				
0.64000 BB	0.05126							
0.000000 00	8.541238 00	1.056635 00	3.334243 00	4.302092-02				
0.64000 BB	0.05126							
0.000000 00	1.459783 01	1.279297 00	6.846284 00	5.467523-02				
0.64000 BB	0.05126							
0.000000 00	1.675777 01	1.015736 00	9.670948 00	5.454237-02				
0.64000 BB	0.05126							
0.000000 00	1.584199 01	4.977950-01	1.077780 01	3.440073-02				
0.64000 BB	0.05126							
0.000000 00	1.645272 01	2.454583-01	1.227668 01	2.105218-02				
0.64000 BB	0.05126							
0.000000 00	1.877223 01	2.606877-01	1.483629 01	2.388288-02				
0.64000 BB	0.05126							
0.000000 00	1.826136 01	2.369498-01	1.533454 01	2.383715-02				
0.64000 BB	0.05126							
0.000000 00	1.014183 01	9.041499-02	8.946854 00	1.108851-02				
0.64000 BB	0.05126							
0.000000 00	9.843410 00	8.182493-02	9.055860 00	1.107810-02				
0.64000 BB	0.05126							
0.000000 00	9.598559 00	8.328916-02	9.139208 00	1.105170-02				
0.64000 BB	0.05126							
0.000000 00	9.384994 00	8.136379-02	9.180082 00	1.099372-02				
0.64000 BB	0.05126							
0.000000 00	9.200843 00	7.397327-02	9.265621 00	1.102940-02				
0.64000 BB	0.05126							
0.000000 00	8.797103 00	5.858827-02	9.254254 00	1.096337-02				
0.64000 BB	0.05126							
0.000000 00	7.428853 00	1.624559-02	8.125122 00	4.853009-03				
0.64000 BB	0.05126							
0.000000 00	8.172413 00	3.070891-03	9.473995 00	4.546122-03				
0.64000 BB	0.05126							
0.000000 00	1.406165 02	-8.585135-01	5.652299 02	1.316168-01				
							JUL 31 58	
5.010100 00	2.900000 01	1.006768 00	1.000000-04	-3.281544-04	1.893254 01	1.884497 01	1.892877 01	
							JUL 31 58	
2.000000 00	1.333333 00	0.006162 00	7.175741-02	1.100435-01	2.028986-01	1.073354-01	1.577086-01	
4.000000 00	9.333333 00	0.006162 00	6.899097-02	1.061931-01	1.956811-01	1.034212-01	1.519423-01	

6.000000 00	2.533333 01	0.006162 00	6.389590-02	9.859201-02	1.815547-01	9.585356-02	1.407970-01
8.000000 00	4.933333 01	0.006162 00	5.660573-02	8.777335-02	1.615085-01	8.514688-02	1.250126-01
1.000000 01	8.133333 01	0.006162 00	4.770756-02	7.437209-02	1.367424-01	7.199863-02	1.056279-01
1.200000 01	1.213333 02	0.006162 00	4.027319-02	5.977388-02	1.095670-01	5.737737-02	8.383819-02
1.300000 01	7.816667 01	0.006162 00	3.974545-02	4.789869-02	8.748833-02	4.543877-02	6.596688-02
1.345000 01	3.935642 01	0.006162 00	4.525174-02	3.913999-02	7.167262-02	3.710271-02	5.430927-02
1.400000 01	5.181022 01	0.006424 00	0.000000 00	3.128418-02	5.751981-02	2.951841-02	4.414925-02
1.600000 01	2.253333 02	0.006424 00	0.000000 00	2.068077-02	3.800822-02	1.897797-02	2.905944-02
1.800000 01	2.893333 02	0.006424 00	0.000000 00	1.115101-02	2.029121-02	9.570886-03	1.492150-02
2.000000 01	3.613333 02	0.006424 00	0.000000 00	6.905546-03	1.229031-02	5.483434-03	8.438432-03
2.300000 01	6.945000 02	0.006424 00	0.000000 00	3.986058-03	6.882002-03	2.895349-03	4.414514-03
2.600000 01	9.015000 02	0.006424 00	0.000000 00	2.016256-03	3.333332-03	1.320436-03	1.985279-03
2.900000 01	1.135500 03	0.006424 00	0.000000 00	1.042512-03	1.645816-03	6.225214-04	9.218679-04
3.180000 01	1.294738 03	0.006424 00	0.000000 00	5.357886-04	7.852558-04	2.687045-04	3.826765-04
							JUL 31 58
1.592833-01	1.142399-01	8.453518-02	9.609279-02	9.312917-02	4.470922-02	4.317788-02	4.262027-02
1.534631-01	1.100644-01	8.144257-02	9.257370-02	8.971271-02	4.306620-02	4.158915-02	4.105108-02
1.421950-01	1.019748-01	7.544981-02	8.574814-02	8.308140-02	3.987853-02	3.850711-02	3.800481-02
1.262122-01	9.048570-02	6.692973-02	7.603172-02	7.363150-02	3.533398-02	3.411245-02	3.366122-02
1.065264-01	7.628541-02	5.636853-02	6.396167-02	6.189043-02	2.968903-02	2.865921-02	2.828232-02
8.415981-02	6.000636-02	4.422060-02	5.013201-02	4.854659-02	2.331733-02	2.254652-02	2.228941-02
6.579612-02	4.665574-02	3.434095-02	3.906177-02	3.804136-02	1.836987-02	1.785752-02	1.772509-02
5.496580-02	3.945860-02	2.928435-02	3.358916-02	3.299630-02	1.607777-02	1.574233-02	1.565226-02
4.633684-02	3.426391-02	2.582905-02	2.993977-02	2.969975-02	1.464691-02	1.445380-02	1.434923-02
3.188965-02	2.439627-02	1.877803-02	2.219705-02	2.243631-02	1.124353-02	1.123399-02	1.120362-02
1.712222-02	1.349721-02	1.060364-02	1.286492-02	1.336193-02	6.817089-03	6.918505-03	6.982779-03
9.692857-03	7.625649-03	5.988831-03	7.315891-03	7.687917-03	3.948270-03	4.033517-03	4.103478-03
5.086182-03	4.001440-03	3.138319-03	3.830343-03	4.030946-03	2.073054-03	2.121660-03	2.163238-03
2.272929-03	1.778418-03	1.389719-03	1.690143-03	1.772998-03	9.103443-04	9.307324-04	9.484025-04
1.043958-03	8.110283-04	6.300079-04	7.586508-04	7.878407-04	4.026564-04	4.099833-04	4.159827-04
4.189117-04	3.125000-04	2.331970-04	2.739908-04	2.792468-04	1.405039-04	1.418275-04	1.428908-04
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4.168826-02	4.036196-02	3.761314-02	2.068702-02	1.974433-02	2.079385-01		
4.015183-02	3.887227-02	3.622213-02	1.991998-02	1.900746-02	1.998211-01		
3.716836-02	3.598064-02	3.352507-02	1.843727-02	1.759377-02	1.850881-01		
3.291558-02	3.186111-02	2.968570-02	1.632506-02	1.557720-02	1.639806-01		
2.766171-02	2.678381-02	2.496433-02	1.372763-02	1.309866-02	1.382998-01		
2.184230-02	2.119519-02	1.981175-02	1.089566-02	1.040710-02	1.189978-01		
1.743457-02	1.699450-02	1.599603-02	8.818098-03	8.478762-03	1.236533-01		
1.543026-02	1.511940-02	1.438112-02	7.982726-03	7.831784-03	1.473515-01		
1.415710-02	1.395864-02	1.346104-02	7.559518-03	7.668862-03	1.775408-01		
1.111007-02	1.105313-02	1.083029-02	6.132356-03	6.370733-03	1.965835-01		
7.001589-03	7.049859-03	7.019154-03	3.986542-03	4.185086-03	1.714792-01		
4.149187-03	4.211015-03	4.225449-03	2.398236-03	2.519042-03	1.160560-01		
2.193594-03	2.234066-03	2.251048-03	1.277611-03	1.343843-03	6.467204-02		
9.614829-04	9.793063-04	9.871220-04	5.602826-04	5.896636-04	2.848862-02		
4.199179-04	4.260645-04	4.279432-04	2.430251-04	2.552602-04	1.168659-02		
1.433602-04	1.446636-04	1.444959-04	8.120446-05	8.486524-05	3.533759-03		

								JUL 31 58
H/U^{235} =515 REFL.	-1.332100-01	9.100000 01	1.011725 00	1.000000-04	-9.568815-05	2.561813 01	2.532776 01	2.659936 01
								JUL 31 58
	0.64000 BB	0.05360						
	0.000000 00	7.375508 00	1.771508 00	6.982298-01	1.693496 00	9.579671-01	2.242189-01	
	0.64000 BB	0.05360						
	0.000000 00	1.595792 01	2.662495 00	2.451975 00	2.543205 00	2.910914 00	2.830487-01	
	0.64000 BB	0.05360						
	0.000000 00	1.266593 01	9.607795-01	1.814303 00	1.028474 00	3.088029 00	7.230455-02	
	0.64000 BB	0.05360						
	0.000000 00	2.200493 01	1.299856 00	2.303366 00	1.236226 00	6.346032 00	9.228319-02	
	0.64000 BB	0.05360						
	0.000000 00	2.584162 01	1.054624 00	2.372326 00	1.193492 00	9.132827 00	9.252648-02	
	0.64000 BB	0.05360						
	0.000000 00	2.487253 01	6.644056-01	7.548499-01	6.950022-01	1.042441 01	5.838306-02	
	0.64000 BB	0.05360						
	0.000000 00	2.598142 01	3.433543-01	5.314248-01	3.457488-01	1.209002 01	3.575708-02	
	0.64000 BB	0.05360						
	0.000000 00	2.971880 01	3.630271-01	5.871872-01	3.463220-01	1.473073 01	4.069999-02	
	0.64000 BB	0.05360						
	0.000000 00	2.904331 01	3.318151-01	5.704301-01	3.085408-01	1.531105 01	4.075012-02	
	0.64000 BB	0.05360						
	0.000000 00	1.625561 01	1.410084-01	2.718808-01	1.178890-01	8.960053 00	1.896817-02	
	0.64000 BB	0.05360						
	0.000000 00	1.593153 01	1.121532-01	3.442117-01	1.280373-01	9.094142 00	1.896405-02	
	0.64000 BB	0.05360						
	0.000000 00	1.563538 01	1.365351-01	2.754193-01	1.003383-01	9.191855 00	1.897310-02	
	0.64000 BB	0.05360						
	0.000000 00	1.532406 01	1.437671-01	2.381244-01	8.442966-02	9.225864 00	1.892200-02	
	0.64000 BB	0.05360						
	0.000000 00	1.508860 01	1.159055-01	2.862737-01	9.887803-02	9.312232 00	1.899901-02	
	0.64000 BB	0.05360						
	0.000000 00	1.459698 01	8.045291-02	3.372969-01	1.095376-01	9.326867 00	1.888770-02	
	0.64000 BB	0.05360						
	0.000000 00	1.248944 01	2.268518-02	2.011506-01	4.437136-02	8.211516 00	8.514494-03	
	0.64000 BB	0.05360						
	0.000000 00	1.402031 01	3.155577-02	1.700213-01	1.255958-02	9.584696 00	8.201923-03	
	0.64000 BB	0.05360						
	0.000000 00	3.355036 02	-5.168648-01	3.935908 00	-1.096173 00	7.902628 02	3.912778-01	
								JUL 31 58
	-1.332100-01	9.200000 01	1.011630 00	1.000000-04	-9.345704-05	2.560919 01	2.532124 01	2.658266 01
								JUL 31 58
	2.000000 00	1.333333 00	0.006656 00	6.220287-02	1.043281-01	1.924611-01	1.006449-01	1.481282-01
	4.000000 00	9.333333 00	0.006656 00	6.057734-02	1.016838-01	1.875469-01	9.801993-02	1.442377-01
	6.000000 00	2.533333 01	0.006656 00	5.731663-02	9.634983-02	1.777226-01	9.282855-02	1.365654-01
	8.000000 00	4.933333 01	0.006656 00	5.260158-02	8.857783-02	1.634751-01	8.532478-02	1.254770-01

1.000000 01	8.133333 01	0.006656 00	4.660533-02	7.875500-02	1.455464-01	7.589642-02	1.115218-01
1.200000 01	1.213333 02	0.006656 00	3.963494-02	6.737314-02	1.249130-01	6.507569-02	9.542570-02
1.400000 01	1.693333 02	0.006656 00	3.279350-02	5.512906-02	1.028876-01	5.353128-02	7.796498-02
1.500000 01	1.051666 02	0.006656 00	2.883378-02	4.581745-02	8.629401-02	4.476493-02	6.436867-02
1.570000 01	8.248214 01	0.006656 00	2.840480-02	4.032088-02	7.708007-02	3.989997-02	5.626163-02
1.600000 01	3.768449 01	0.006656 00	2.896493-02	3.664118-02	7.160329-02	3.717049-02	5.105151-02
1.612700 01	1.638535 01	0.006414 00	0.000000 00	3.017457-02	5.665149-02	2.969239-02	4.151093-02
1.650000 01	4.963548 01	0.007120 00	0.000000 00	2.324173-02	4.037311-02	2.122315-02	3.137943-02
1.700000 01	7.014583 01	0.007120 00	0.000000 00	1.973971-02	3.427841-02	1.771841-02	2.667030-02
1.800000 01	1.531666 02	0.007120 00	0.000000 00	1.555748-02	2.698390-02	1.364289-02	2.088242-02
2.000000 01	3.613333 02	0.007120 00	0.000000 00	1.044825-02	1.800619-02	8.749923-03	1.354611-02
2.200000 01	4.413333 02	0.007120 00	0.000000 00	6.327808-03	1.071951-02	4.896764-03	7.563436-03
2.400000 01	5.293333 02	0.007120 00	0.000000 00	4.027980-03	6.666008-03	2.878861-03	4.398263-03
2.600000 01	6.253333 02	0.007120 00	0.000000 00	2.596370-03	4.183564-03	1.721375-03	2.603229-03
2.850000 01	9.288542 02	0.007120 00	0.000000 00	1.617762-03	2.526528-03	9.953707-04	1.485141-03
3.127000 01	1.237847 03	0.007120 00	0.000000 00	8.950921-04	1.307507-03	4.629428-04	6.640022-04
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1.510030-01	1.091215-01	8.111083-02	9.278562-02	9.078595-02	4.424985-02	4.329362-02	4.286299-02
1.470278-01	1.062398-01	7.896432-02	9.032628-02	8.837623-02	4.307439-02	4.214284-02	4.172315-02
1.392051-01	1.005833-01	7.475773-02	8.551047-02	8.365928-02	4.077389-02	3.989074-02	3.949183-02
1.279067-01	9.241666-02	6.868613-02	7.855904-02	7.684722-02	3.745051-02	3.663609-02	3.626587-02
1.136908-01	8.212966-02	6.103323-02	6.978375-02	6.823049-02	3.324181-02	3.251058-02	3.217285-02
9.726637-02	7.019298-02	5.212085-02	5.951685-02	5.810765-02	2.828782-02	2.764855-02	2.734558-02
7.938809-02	5.695236-02	4.214193-02	4.795349-02	4.669116-02	2.270073-02	2.218260-02	2.192627-02
6.538485-02	4.629235-02	3.402503-02	3.855117-02	3.746720-02	1.820025-02	1.782941-02	1.760771-02
5.727371-02	3.969928-02	2.897324-02	3.279068-02	3.193109-02	1.551877-02	1.532116-02	1.508567-02
5.274161-02	3.542245-02	2.573864-02	2.917499-02	2.852674-02	1.382888-02	1.397716-02	1.345291-02
4.528511-02	3.226369-02	2.391613-02	2.730045-02	2.683988-02	1.304630-02	1.335858-02	1.267864-02
3.641189-02	2.860532-02	2.186738-02	2.533900-02	2.514642-02	1.237892-02	1.252987-02	1.212753-02
3.104787-02	2.462349-02	1.911308-02	2.253299-02	2.264806-02	1.127936-02	1.134169-02	1.118067-02
2.442099-02	1.950647-02	1.531442-02	1.836204-02	1.874948-02	9.441458-03	9.512450-03	9.486094-03
1.590370-02	1.272711-02	1.005578-02	1.225145-02	1.274989-02	6.500216-03	6.596781-03	6.652855-03
8.865959-03	7.051948-03	5.565017-03	6.837589-03	7.221355-03	3.717666-03	3.803559-03	3.873924-03
5.117931-03	4.042054-03	3.175755-03	3.888852-03	4.108002-03	2.116906-03	2.169877-03	2.215859-03
3.004697-03	2.360004-03	1.847350-03	2.252167-03	2.368747-03	1.217928-03	1.246751-03	1.271708-03
1.694048-03	1.320202-03	1.027327-03	1.240019-03	1.291399-03	6.610711-04	6.739364-04	6.848384-04
7.325428-04	5.486325-04	4.102373-04	4.834178-04	4.944381-04	2.492997-04	2.521457-04	2.544590-04
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4.211240-02	4.121061-02	3.923032-02	2.182922-02	2.155745-02	3.303996-01		
4.099134-02	4.011248-02	3.818439-02	2.124588-02	2.098434-02	3.217963-01		
3.879741-02	3.796377-02	3.613702-02	2.010710-02	1.985815-02	3.044565-01		
3.562403-02	3.485427-02	3.317270-02	1.845774-02	1.822827-02	2.793857-01		
3.159351-02	3.090190-02	2.940316-02	1.635966-02	1.615608-02	2.474924-01		
2.683907-02	2.623878-02	2.495478-02	1.388475-02	1.370752-02	2.105209-01		
2.150127-02	2.101530-02	2.000058-02	1.112658-02	1.098897-02	1.752438-01		
1.723934-02	1.687438-02	1.613233-02	8.982369-03	8.873948-03	1.565728-01		
1.470614-02	1.446297-02	1.398882-02	7.813002-03	7.741696-03	1.575485-01		
1.293237-02	1.299992-02	1.297030-02	7.308830-03	7.078319-03	1.632041-01		
1.210275-02	1.234033-02	1.254015-02	7.158650-03	6.825895-03	1.680269-01		
1.170818-02	1.177531-02	1.181096-02	6.746392-03	6.725375-03	1.830760-01		
1.093242-02	1.089402-02	1.080269-02	6.136741-03	6.335298-03	2.021394-01		
9.379550-03	9.358843-03	9.261399-03	5.255005-03	5.473262-03	2.122109-01		
6.658936-03	6.695359-03	6.660003-03	3.778014-03	3.955913-03	1.961238-01		
3.920349-03	3.980557-03	3.995278-03	2.266943-03	2.381022-03	1.494338-01		
2.250264-03	2.294418-03	2.313901-03	1.313065-03	1.380839-03	9.899079-02		
1.290411-03	1.315463-03	1.327048-03	7.525595-04	7.914516-04	6.078203-02		
6.924519-04	7.036311-04	7.077185-04	4.021389-04	4.227842-04	3.283850-02		
2.557186-04	2.585414-04	2.588370-04	1.451343-04	1.512182-04	1.097864-02		

H/U^{235}	5.010200 00	7.000000 00	1.019444 00	1.000000-04	-6.025987-05	5.773208 01	5.666829 01	6.577123 01
								JUL 31 58
=932	5.010200 00	8.000000 00	1.019375 00	1.000000-04	-6.773474-05	5.769162 01	5.663095 01	6.571159 01
(HC-2)								JUL 31 58
REFL.	5.010200 00	9.000000 00	1.019303 00	1.000000-04	-7.011518-05	5.765202 01	5.659509 01	6.565403 01
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	0.64000 BB	0.05126						
	0.000000 00	1.702658 01	3.127969 00	1.607241 00	6.656798-01			
	0.64000 BB	0.05126						
	0.000000 00	3.716434 01	4.919182 00	5.027777 00	9.076061-01			
	0.64000 BB	0.05126						
	0.000000 00	2.976810 01	1.813869 00	5.310507 00	2.407982-01			
	0.64000 BB	0.05126						
	0.000000 00	5.233437 01	2.199325 00	1.084229 01	3.090626-01			
	0.64000 BB	0.05126						
	0.000000 00	6.235791 01	1.796995 00	1.526847 01	3.103509-01			
	0.64000 BB	0.05126						
	0.000000 00	6.104066 01	9.055730-01	1.697485 01	1.963106-01			
	0.64000 BB	0.05126						
	0.000000 00	6.477350 01	4.557351-01	1.928692 01	1.206196-01			
	0.64000 BB	0.05126						
	0.000000 00	7.493554 01	4.980847-01	2.326075 01	1.379271-01			
	0.64000 BB	0.05126						
	0.000000 00	7.414648 01	4.707073-01	2.400711 01	1.387331-01			
	0.64000 BB	0.05126						
	0.000000 00	4.196853 01	1.950509-01	1.400256 01	6.471283-02			
	0.64000 BB	0.05126						
	0.000000 00	4.154120 01	1.874329-01	1.417679 01	6.483010-02			
	0.64000 BB	0.05126						
	0.000000 00	4.111272 01	1.865227-01	1.431082 01	6.495025-02			
	0.64000 BB	0.05126						
	0.000000 00	4.059862 01	1.825676-01	1.437613 01	6.487088-02			
	0.64000 BB	0.05126						
	0.000000 00	4.028345 01	1.754594-01	1.451347 01	6.524513-02			
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	0.000000 00	3.937910 01	1.607341-01	1.450677 01	6.495652-02			
	0.64000 BB	0.05126						
	0.000000 00	3.400589 01	5.531550-02	1.274486 01	2.926939-02			
	0.64000 BB	0.05126						
	0.000000 00	3.878139 01	4.194408-02	1.486723 01	2.821987-02			
	0.64000 BB	0.05126						
	0.000000 00	1.434592 03	-4.562398-01	1.018410 03	9.234654-01			
	5.010200 00	1.000000 01	1.019229 00	1.000000-04	-7.249805-05	5.761317 01	5.656021 01	JUL 31 58 6.559788 01
	3.000000 00	4.500000 00	0.006162 00	5.112717-02	1.007450-01	1.844939-01	9.450301-02	JUL 31 58 1.398405-01

6.000000 00	3.150000 01	0.006162 00	5.002624-02	9.810407-02	1.796154-01	9.206136-02	1.362014-01
9.000000 00	8.550000 01	0.006162 00	4.790197-02	9.269178-02	1.696485-01	8.703076-02	1.286983-01
1.200000 01	1.665000 02	0.006162 00	4.415191-02	8.434290-02	1.542993-01	7.922738-02	1.170886-01
1.500000 01	2.745000 02	0.006162 00	3.884673-02	7.304881-02	1.335558-01	6.865555-02	1.013630-01
1.800000 01	4.095000 02	0.006162 00	3.179228-02	5.903943-02	1.077758-01	5.537969-02	8.167713-02
2.100000 01	5.715000 02	0.006162 00	2.451725-02	4.321746-02	7.854748-02	4.007067-02	5.884114-02
2.214000 01	2.652627 02	0.006162 00	2.106573-02	2.991431-02	5.425048-02	2.735515-02	4.032158-02
2.300000 01	2.190706 02	0.006424 00	0.000000 00	2.168095-02	3.931332-02	1.942955-02	2.930519-02
2.400000 01	2.761666 02	0.006424 00	0.000000 00	1.628561-02	2.938930-02	1.413335-02	2.166332-02
2.500000 01	3.001666 02	0.006424 00	0.000000 00	1.243735-02	2.230253-02	1.046817-02	1.614825-02
2.700000 01	6.763333 02	0.006424 00	0.000000 00	8.881469-03	1.572000-02	7.133256-03	1.098388-02
2.900000 01	7.843333 02	0.006424 00	0.000000 00	5.676917-03	9.789442-03	4.207119-03	6.418529-03
3.100000 01	9.003333 02	0.006424 00	0.000000 00	3.704612-03	6.173398-03	2.505230-03	3.761583-03
3.200000 01	4.961666 02	0.006424 00	0.000000 00	2.648082-03	4.265963-03	1.645827-03	2.424545-03
3.370000 01	9.174587 02	0.006424 00	0.000000 00	1.945446-03	2.975168-03	1.038386-03	1.471986-03
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1.447667-01	1.058783-01	7.929837-02	9.157829-02	9.068189-02	4.478477-02	4.431059-02	4.406400-02
1.409064-01	1.030041-01	7.712747-02	8.904850-02	8.815354-02	4.352899-02	4.306258-02	4.281860-02
1.329896-01	9.713738-02	7.270681-02	8.390644-02	8.302285-02	4.098506-02	4.053754-02	4.029893-02
1.208131-01	8.814924-02	6.594329-02	7.605109-02	7.519781-02	3.710815-02	3.669166-02	3.646403-02
1.043651-01	7.603077-02	5.683552-02	6.548905-02	6.468865-02	3.190402-02	3.153123-02	3.132081-02
8.392094-02	6.102994-02	4.556325-02	5.241478-02	5.169598-02	2.547695-02	2.516561-02	2.498556-02
6.018947-02	4.360110-02	3.249160-02	3.737811-02	3.691213-02	1.821021-02	1.800977-02	1.790567-02
4.166848-02	3.042300-02	2.280769-02	2.644842-02	2.634744-02	1.307745-02	1.300015-02	1.297211-02
3.155494-02	2.378604-02	1.814827-02	2.133216-02	2.150614-02	1.077478-02	1.078174-02	1.077943-02
2.409119-02	1.859460-02	1.439075-02	1.714082-02	1.748846-02	8.832136-03	8.891589-03	8.918844-03
1.825862-02	1.424680-02	1.111126-02	1.337076-02	1.378576-02	7.003801-03	7.086511-03	7.140240-03
1.252487-02	9.815970-03	7.679830-03	9.304531-03	9.675313-03	4.939821-03	5.020285-03	5.080052-03
7.348574-03	5.764337-03	4.512193-03	5.485643-03	5.738355-03	2.940772-03	2.999409-03	3.046781-03
4.278396-03	3.332039-03	2.593158-03	3.135538-03	3.266954-03	1.671103-03	1.702840-03	1.728823-03
2.720619-03	2.090817-03	1.606330-03	1.911556-03	1.966376-03	9.997657-04	1.013624-03	1.024692-03
1.601220-03	1.175269-03	8.594603-04	1.002325-03	1.018469-03	5.093160-04	5.133323-04	5.166377-04
							JUL 31 58
4.352637-02	4.300091-02	4.163042-02	2.335469-02	2.364040-02	5.237418-01		
4.229165-02	4.177620-02	4.043904-02	2.268632-02	2.296211-02	5.129483-01		
3.979418-02	3.930124-02	3.803607-02	2.133974-02	2.160040-02	4.911356-01		
3.599560-02	3.553873-02	3.438406-02	1.929195-02	1.952757-02	4.548619-01		
3.090346-02	3.049725-02	2.949314-02	1.654892-02	1.675021-02	4.014471-01		
2.464313-02	2.431259-02	2.350705-02	1.319056-02	1.335182-02	3.295775-01		
1.768581-02	1.747459-02	1.692489-02	9.497764-03	9.618430-03	2.562506-01		
1.285924-02	1.275976-02	1.243203-02	6.990829-03	7.125167-03	2.238648-01		
1.071487-02	1.068568-02	1.050257-02	5.939374-03	6.154609-03	2.261858-01		
8.895186-03	8.910414-03	8.816529-03	4.999513-03	5.225768-03	2.168548-01		
7.150643-03	7.191166-03	7.147793-03	4.055040-03	4.245559-03	1.924798-01		
5.109498-03	5.160355-03	5.152922-03	2.923826-03	3.066862-03	1.489041-01		
3.076912-03	3.120381-03	3.129836-03	1.776075-03	1.864974-03	9.594378-02		
1.745738-03	1.770973-03	1.777534-03	1.008483-03	1.059547-03	5.501298-02		
1.030983-03	1.042975-03	1.044450-03	5.939567-04	6.230847-04	3.121578-02		
5.179857-04	5.226134-04	5.221100-04	2.894895-04	2.995355-04	1.380210-02		

H/U^{233} =418.3 REFL.

0.64000 BB	0.11357						
0.000000 00	9.566891-01	3.087935-01	4.977896-03	3.052068-01	1.720367-01	4.126012-02	
0.64000 BB	0.11357						
0.000000 00	2.009792 00	4.982173-01	1.669207-02	4.958476-01	5.451299-01	5.511310-02	
0.64000 BB	0.11357						
0.000000 00	1.538136 00	1.971391-01	1.119555-02	1.983218-01	5.862084-01	1.407746-02	
0.64000 BB	0.11357						
0.000000 00	2.618427 00	2.381262-01	2.025770-02	2.400791-01	1.208590 00	1.798834-02	
0.64000 BB	0.11357						
0.000000 00	2.993925 00	1.889399-01	2.430574-02	1.903822-01	1.708849 00	1.803476-02	
0.64000 BB	0.11357						
0.000000 00	2.820648 00	9.349359-02	1.447885-02	9.417610-02	1.904376 00	1.137673-02	
0.64000 BB	0.11357						
0.000000 00	2.914632 00	4.587000-02	5.480382-03	4.622211-02	2.166080 00	6.964697-03	
0.64000 BB	0.11357						
0.000000 00	3.297511 00	4.769659-02	5.660344-03	4.770654-02	2.610214 00	7.932965-03	
0.64000 BB	0.11357						
0.000000 00	3.226041 00	4.444786-02	5.587505-03	4.445018-02	2.689898 00	7.947007-03	
0.64000 BB	0.11357						
0.000000 00	1.794740 00	1.807048-02	2.860842-03	1.807274-02	1.567683 00	3.698204-03	
0.64000 BB	0.11357						
0.000000 00	1.752633 00	1.618444-02	2.812061-03	1.616863-02	1.585634 00	3.698721-03	
0.64000 BB	0.11357						
0.000000 00	1.702130 00	1.518294-02	2.784192-03	1.514829-02	1.598071 00	3.699644-03	
0.64000 BB	0.11357						
0.000000 00	1.611657 00	1.054161-02	2.659826-03	1.049805-02	1.599793 00	3.689393-03	
0.64000 BB	0.11357						
0.000000 00	1.540152 00	1.121757-02	2.671054-03	1.114917-02	1.608796 00	3.705796-03	
0.64000 BB	0.11357						
0.000000 00	1.468999 00	9.696937-03	2.523506-03	9.584583-03	1.602420 00	3.685134-03	
0.64000 BB	0.11357						
0.000000 00	1.244259 00	2.705773-03	1.463469-03	2.676110-03	1.404946 00	1.658574-03	
0.64000 BB	0.11357						
0.000000 00	1.386015 00	1.420702-03	1.404598-03	1.246204-03	1.636038 00	1.597868-03	
0.64000 BB	0.11357						
0.000000 00	3.377894 01	-1.635574-01	3.821378-02	-1.685055-01	1.564762 02	9.626758-02	
							OCT 15 58
-1.334010-01	2.790000 02	1.005445 00	1.000000-05	-9.149313-06	0.000000 00	3.437880 00	3.456601 00
							OCT 15 58
2.000000 00	1.333 33 00	0.006734 00	1.331667-02	2.041714-02	3.759653-02	1.987676-02	2.913683-02
2.000000 00	1.333333 00	0.006734 00	1.331667-02	2.041714-02	3.759653-02	1.987676-02	2.913683-02
4.000000 00	9.333333 00	0.006734 00	1.282742-02	1.971772-02	3.628728-02	1.916785-02	2.809311-02

6.000000 00	2.533333 01	0.006734 00	1.188054-02	1.832420-02	3.370182-02	1.778430-02	2.605999-02
8.000000 00	4.933333 01	0.006734 00	1.054848-02	1.633813-02	3.003019-02	1.582899-02	2.318345-02
1.000000 01	8.133333 01	0.006734 00	9.044418-03	1.390184-02	2.553129-02	1.343876-02	1.965329-02
1.100000 01	5.516666 01	0.006734 00	8.017793-03	1.190222-02	2.182762-02	1.146138-02	1.671517-02
1.200000 01	6.616666 01	0.006734 00	7.726271-03	1.049904-02	1.920996-02	1.003618-02	1.457385-02
1.250000 01	3.752083 01	0.006734 00	7.866162-03	9.368602-03	1.711368-02	8.892625-03	1.285558-02
1.300000 01	4.064583 01	0.006734 00	8.376852-03	8.290795-03	1.518296-02	7.872322-03	1.140728-02
1.320000 01	1.716131 01	0.006734 00	8.988715-03	7.220193-03	1.329971-02	6.885915-03	1.008622-02
1.332700 01	1.117101 01	0.006472 00	0.000000 00	6.624504-03	1.224586-02	6.372140-03	9.427988-03
1.345400 01	1.138599 01	0.007176 00	0.000000 00	6.260168-03	1.157846-02	6.050217-03	9.003621-03
1.400000 01	5.144831 01	0.007176 00	0.000000 00	5.473795-03	1.012604-02	5.240871-03	7.884888-03
1.450000 01	5.077083 01	0.007176 00	0.000000 00	4.471965-03	8.272765-03	4.218772-03	6.441369-03
1.600000 01	1.745625 02	0.007176 00	0.000000 00	3.330356-03	6.142312-03	3.062045-03	4.722359-03
1.800000 01	2.893333 02	0.007176 00	0.000000 00	2.067043-03	3.766038-03	1.788805-03	2.773349-03
2.000000 01	3.613333 02	0.007176 00	0.000000 00	1.259906-03	2.243802-03	1.003940-03	1.544966-03
2.300000 01	6.945000 02	0.007176 00	0.000000 00	7.246151-04	1.250593-03	5.273247-04	8.027723-04
2.600000 01	9.015000 02	0.007176 00	0.000000 00	3.629774-04	5.963012-04	2.338557-04	3.490127-04
2.832700 01	8.590200 02	0.007176 00	0.000000 00	1.887561-04	2.871957-04	9.973169-05	1.421552-04

OCT 15 58

2.938723-02	2.105535-02	1.547857-02	1.745547-02	1.705753-02	8.321232-03	8.042447-03	7.810053-03
2.833212-02	2.029767-02	1.492052-02	1.682473-02	1.643938-02	8.019135-03	7.750031-03	7.525621-03
2.627817-02	1.882405-02	1.383589-02	1.559835-02	1.523660-02	7.431131-03	7.180704-03	6.971711-03
2.336358-02	1.672698-02	1.228900-02	1.384525-02	1.351416-02	6.588447-03	6.364555-03	6.177654-03
1.976101-02	1.411665-02	1.035475-02	1.164795-02	1.135530-02	5.533066-03	5.343875-03	5.186601-03
1.673878-02	1.191000-02	8.713206-03	9.784436-03	9.530752-03	4.643657-03	4.486535-03	4.357325-03
1.451909-02	1.027854-02	7.500194-03	8.422072-03	8.213338-03	4.006961-03	3.878286-03	3.774100-03
1.274556-02	8.981135-03	6.544355-03	7.365330-03	7.204709-03	3.523661-03	3.420689-03	3.338704-03
1.135950-02	8.027808-03	5.870436-03	6.643706-03	6.528457-03	3.204803-03	3.124288-03	3.059877-03
1.021034-02	7.303320-03	5.382092-03	6.132665-03	6.052909-03	2.984927-03	2.925088-03	2.873667-03
9.687969-03	7.034697-03	5.229770-03	5.978820-03	5.909830-03	2.921146-03	2.870115-03	2.822540-03
9.340398-03	6.860868-03	5.136876-03	5.887734-03	5.825669-03	2.883371-03	2.837605-03	2.792434-03
8.346198-03	6.227842-03	4.708306-03	5.444325-03	5.415501-03	2.692182-03	2.663690-03	2.629604-03
7.003455-03	5.330809-03	4.081295-03	4.779602-03	4.796691-03	2.399138-03	2.390179-03	2.371306-03
5.249450-03	4.056671-03	3.139601-03	3.729132-03	3.791227-03	1.910598-03	1.917578-03	1.915535-03
3.157126-03	2.475222-03	1.936268-03	2.340147-03	2.423183-03	1.234079-03	1.250941-03	1.261915-03
1.774603-03	1.396032-03	1.094741-03	1.333641-03	1.397164-03	7.164690-04	7.309916-04	7.426337-04
9.227828-04	7.247368-04	5.674209-04	6.911618-04	7.254366-04	3.725124-04	3.807482-04	3.876921-04
3.970801-04	3.090142-04	2.401517-04	2.896336-04	3.014004-04	1.541872-04	1.571270-04	1.595954-04
1.558412-04	1.158174-04	8.587696-05	1.006758-04	1.025561-04	5.152641-05	5.201334-05	5.240662-05

OCT 15 58

7.099813-03	6.955820-03	6.554016-03	3.611890-03	3.560765-03	5.069739-02
6.840876-03	6.701691-03	6.314165-03	3.479689-03	3.430357-03	4.882894-02
6.336510-03	6.206697-03	5.847022-03	3.222233-03	3.176415-03	4.522194-02
5.613639-03	5.497716-03	5.178573-03	2.853782-03	2.813060-03	4.018397-02
4.713927-03	4.618400-03	4.352875-03	2.398675-03	2.364815-03	3.472965-02
3.965029-03	3.890625-03	3.673639-03	2.024468-03	1.997115-03	3.138869-02
3.446796-03	3.392275-03	3.214298-03	1.772305-03	1.751588-03	3.131376-02
3.067161-03	3.029959-03	2.883946-03	1.592660-03	1.579666-03	3.314922-02
2.836698-03	2.809740-03	2.686640-03	1.488650-03	1.485990-03	3.655185-02
2.699107-03	2.671100-03	2.565241-03	1.429558-03	1.439828-03	4.024641-02
2.671078-03	2.636870-03	2.537154-03	1.418908-03	1.436550-03	4.181530-02
2.654093-03	2.616842-03	2.521017-03	1.412400-03	1.435615-03	4.280234-02
2.530987-03	2.493754-03	2.413068-03	1.358647-03	1.394717-03	4.642371-02
2.314957-03	2.285825-03	2.225559-03	1.258350-03	1.303648-03	5.024928-02
1.892106-03	1.881601-03	1.847074-03	1.046518-03	1.089994-03	5.093490-02
1.263947-03	1.270530-03	1.262000-03	7.160324-04	7.497676-04	4.513402-02
7.499357-04	7.602323-04	7.619637-04	4.323302-04	4.537914-04	3.374058-02
3.925787-04	3.992464-04	4.016611-04	2.278284-04	2.394157-04	2.067220-02
1.612913-04	1.638221-04	1.646951-04	9.353324-05	9.829261-05	9.395285-03
5.259046-05	5.310028-05	5.309155-05	2.966824-05	3.083804-05	2.772711-03

H/U^{233} =663.1 REFL.

0.64000 BR 0.11475							
0.000000 00 1.251286 00	3.309528-01	5.364395-03	3.270876-01	1.846931-01	4.372260-02		
0.64000 BR 0.11475							
0.000000 00 2.672658 00	5.278400-01	1.793494-02	5.253064-01	5.817444-01	5.756663-02		
0.64000 BR 0.11475							
0.000000 00 2.088258 00	2.025903-01	1.191156-02	2.038991-01	6.199676-01	1.456808-02		
0.64000 BB 0.11475							
0.000000 00 3.608149 00	2.451066-01	2.157552-02	2.471944-01	1.272326 00	1.857721-02		
0.64000 BR 0.11475							
0.000000 00 4.205433 00	1.974454-01	2.618736-02	1.989614-01	1.797119 00	1.859295-02		
0.64000 BB 0.11475							
0.000000 00 4.034748 00	9.914078-02	1.577722-02	9.986908-02	2.003136 00	1.172671-02		
0.64000 BR 0.11475							
0.000000 00 4.221058 00	4.941333-02	6.020695-03	4.979542-02	2.280366 00	7.179996-03		
0.64000 BB 0.11475							
0.000000 00 4.822384 00	5.248907-02	6.278106-03	5.249801-02	2.751569 00	8.166706-03		
0.64000 BR 0.11475							
0.000000 00 4.747983 00	4.942315-02	6.243138-03	4.942410-02	2.840383 00	8.170366-03		
0.64000 BR 0.11475							
0.000000 00 2.665978 00	2.052945-02	3.216129-03	2.053059-02	1.657499 00	3.800707-03		
0.64000 BB 0.11475							
0.000000 00 2.624711 00	1.906804-02	3.186100-03	1.904836-02	1.678422 00	3.798610-03		
0.64000 BR 0.11475							
0.000000 00 2.572448 00	1.821675-02	3.174724-03	1.817585-02	1.693875 00	3.797521-03		
0.64000 BR 0.11475							
0.000000 00 2.475060 00	1.456159-02	3.083548-03	1.450725-02	1.698877 00	3.783749-03		
0.64000 BR 0.11475							
0.000000 00 2.400897 00	1.496529-02	3.113887-03	1.488456-02	1.711867 00	3.799649-03		
0.64000 BR 0.11475							
0.000000 00 2.318389 00	1.361945-02	2.969273-03	1.348516-02	1.708581 00	3.776289-03		
0.64000 BR 0.11475							
0.000000 00 1.984940 00	4.369605-03	1.730688-03	4.333513-03	1.499968 00	1.703082-03		
0.64000 BR 0.11475							
0.000000 00 2.244454 00	3.241964-03	1.678101-03	3.032174-03	1.748624 00	1.641785-03		
							OCT 15 58
0.64000 BB 0.11475							
0.000000 00 7.343909 01	-1.285096-01	5.457456-02	-1.356017-01	1.736172 02	9.800704-02		
							OCT 15 58
-1.335009-01	3.320000 02	1.019360 00	1.000000-05	-9.834766-06	0.000000 00	4.355222 00	4.439542 00

2.000000 00	1.333333 00	0.007050 00	1.055272-02	1.753479-02	3.224511-02	1.688342-02	2.482959-02
4.000000 00	9.333333 00	0.007050 00	1.025969-02	1.707482-02	3.138524-02	1.642374-02	2.415103-02
6.000000 00	2.533333 01	0.007050 00	9.688030-03	1.615245-02	2.967520-02	1.551903-02	2.281829-02
8.000000 00	4.933333 01	0.007050 00	8.864751-03	1.481484-02	2.720332-02	1.421559-02	2.089864-02
1.000000 01	8.133333 01	0.007050 00	7.837301-03	1.313259-02	2.409987-02	1.258205-02	1.849092-02
1.200000 01	1.213333 02	0.007050 00	6.700375-03	1.119252-02	2.052273-02	1.070041-02	1.571125-02
1.300000 01	7.816667 01	0.007050 00	5.857212-03	9.635401-03	1.764801-02	9.184716-03	1.346506-02
1.400000 01	9.116667 01	0.007050 00	5.397134-03	8.559726-03	1.565288-02	8.121168-03	1.187942-02
1.450000 01	5.077083 01	0.007050 00	5.141535-03	7.741866-03	1.413204-02	7.302074-03	1.065313-02
1.500000 01	5.439583 01	0.007050 00	5.073309-03	7.169758-03	1.307321-02	6.729399-03	9.795515-03
1.550000 01	5.814583 01	0.007050 00	5.103330-03	6.512530-03	1.188009-02	6.098318-03	8.868533-03
1.600000 01	6.202083 01	0.007050 00	5.298254-03	5.569577-03	1.020924-02	5.224670-03	7.668500-03
1.612700 01	1.638535 01	0.006606 00	0.000000 00	4.867050-03	8.965024-03	4.600286-03	6.843112-03
1.625400 01	1.664546 01	0.007312 00	0.000000 00	4.628276-03	8.525053-03	4.389315-03	6.560841-03
1.650000 01	3.298995 01	0.007312 00	0.000000 00	4.308686-03	7.933062-03	4.058296-03	6.102237-03
1.700000 01	7.014583 01	0.007312 00	0.000000 00	3.776425-03	6.947147-03	3.514826-03	5.334364-03
1.850000 01	2.364375 02	0.007312 00	0.000000 00	2.818571-03	5.166155-03	2.551651-03	3.921189-03
2.100000 01	4.882291 02	0.007312 00	0.000000 00	1.685381-03	3.046532-03	1.429808-03	2.213144-03
2.350000 01	6.194791 02	0.007312 00	0.000000 00	9.272089-04	1.626384-03	7.091335-04	1.086273-03
2.600000 01	7.663541 02	0.007312 00	0.000000 00	5.319145-04	8.988140-04	3.673656-04	5.550642-04
2.850000 01	9.288542 02	0.007312 00	0.000000 00	3.084283-04	5.005055-04	1.945006-04	2.893697-04
3.112700 01	1.168252 03	0.007312 00	0.000000 00	1.723215-04	2.610214-04	9.117947-05	1.303118-04
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2.527403-02	1.824685-02	1.351147-02	1.538280-02	1.513213-02	7.445530-03	7.283290-03	7.137005-03
2.458205-02	1.774634-02	1.314029-02	1.495969-02	1.471540-02	7.240326-03	7.082438-03	6.940066-03
2.322446-02	1.676572-02	1.241381-02	1.413189-02	1.390012-02	6.838898-03	6.689505-03	6.554750-03
2.126851-02	1.535258-02	1.136676-02	1.293828-02	1.272384-02	6.259517-03	6.122221-03	5.998310-03
1.881113-02	1.357427-02	1.004751-02	1.143218-02	1.123766-02	5.527020-03	5.404743-03	5.294361-03
1.596284-02	1.150498-02	8.508311-03	9.671619-03	9.499039-03	4.670054-03	4.565657-03	4.471655-03
1.365100-02	9.817982-03	7.250131-03	8.231525-03	8.078388-03	3.970575-03	3.881724-03	3.802231-03
1.201069-02	8.614866-03	6.351237-03	7.206216-03	7.072845-03	3.477464-03	3.401549-03	3.334284-03
1.074064-02	7.682266-03	5.655449-03	6.417423-03	6.304560-03	3.102319-03	3.037745-03	2.981176-03
9.856668-03	7.036092-03	5.176558-03	5.881120-03	5.787896-03	2.851793-03	2.796440-03	2.748249-03
8.921511-03	6.364634-03	4.686998-03	5.341921-03	5.274316-03	2.604189-03	2.559202-03	2.520489-03
7.827460-03	5.642081-03	4.183097-03	4.799779-03	4.763337-03	2.361503-03	2.330677-03	2.302276-03
7.127208-03	5.231476-03	3.920309-03	4.522555-03	4.503086-03	2.239847-03	2.218248-03	2.195187-03
6.888889-03	5.107897-03	3.852046-03	4.453727-03	4.438854-03	2.210134-03	2.191296-03	2.169651-03
6.479985-03	4.846529-03	3.673736-03	4.267218-03	4.264651-03	2.127886-03	2.114956-03	2.097053-03
5.764348-03	4.367306-03	3.336863-03	3.906845-03	3.926203-03	1.966018-03	1.961686-03	1.950470-03
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2.520649-03	1.976245-03	1.545722-03	1.868361-03	1.935750-03	9.862598-04	1.000293-03	1.009811-03
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1.431582-04	1.068536-04	7.962627-05	9.357331-05	9.545531-05	4.804225-05	4.852995-05	4.891953-05
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6.687682-03	6.590071-03	6.309014-03	3.512670-03	3.534726-03	7.120481-02		
6.503025-03	6.407990-03	6.134576-03	3.415529-03	3.436940-03	6.922438-02		
6.141717-03	6.051673-03	5.793176-03	3.225451-03	3.245624-03	6.536416-02		
5.619823-03	5.536884-03	5.299865-03	2.950783-03	2.969147-03	5.980933-02		
4.959491-03	4.885574-03	4.675852-03	2.603320-03	2.619401-03	5.290195-02		
4.188558-03	4.126237-03	3.949573-03	2.198910-03	2.212540-03	4.537174-02		
3.562673-03	3.511361-03	3.363137-03	1.872384-03	1.884338-03	3.994050-02		
3.127849-03	3.086502-03	2.960323-03	1.648277-03	1.659691-03	3.724306-02		
2.801785-03	2.769437-03	2.661181-03	1.481954-03	1.493454-03	3.598667-02		
2.589555-03	2.563797-03	2.468537-03	1.375499-03	1.387992-03	3.601152-02		
2.383606-03	2.365997-03	2.284133-03	1.273844-03	1.288391-03	3.686150-02		
2.197862-03	2.183189-03	2.115523-03	1.184277-03	1.204904-03	3.908385-02		
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2.095087-03	2.076484-03	2.019105-03	1.136169-03	1.165515-03	4.129299-02		
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1.908963-03	1.892894-03	1.850336-03	1.045916-03	1.083854-03	4.410940-02		
1.571134-03	1.565972-03	1.541286-03	8.732160-04	9.100675-04	4.422865-02		
1.012468-03	1.018988-03	1.013644-03	5.750796-04	6.024059-04	3.774769-02		
5.318371-04	5.401594-04	5.425288-04	3.078258-04	3.232992-04	2.578993-02		
2.692393-04	2.739944-04	2.759008-04	1.564726-04	1.644713-04	1.512851-02		
1.321526-04	1.341121-04	1.347113-04	7.654313-05	8.043763-05	7.755213-03		
4.910965-05	4.959143-05	4.958618-05	2.777238-05	2.890465-05	2.612518-03		

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OCT 04 58

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OCT 04 58

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OCT 04 58

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OCT 04 58

2.000000 00 1.333333 00 0.006162 00 2.302944-01 3.485075-01 7.195832-01 4.603951-01 9.035153-01
4.000000 00 9.333333 00 0.006162 00 2.282806-01 3.455238-01 7.133619-01 4.563960-01 8.956221-01
6.000000 00 2.533333 01 0.006162 00 2.242743-01 3.395368-01 7.009726-01 4.484222-01 8.799933-01
9.000000 00 8.550000 01 0.006162 00 2.162821-01 3.275194-01 6.761124-01 4.324654-01 8.487076-01

1.100000 01	1.003333 02	0.006162 00	2.060229-01	3.120501-01	6.441382-01	4.120097-01	8.065201-01
1.300000 01	1.443333 02	0.006162 00	1.957145-01	2.965099-01	6.120205-01	3.914407-01	7.681504-01
1.500000 01	1.963333 02	0.006162 00	1.839259-01	2.787432-01	5.753006-01	3.679204-01	7.219880-01
1.800000 01	4.095000 02	0.006162 00	1.672157-01	2.535782-01	5.232955-01	3.346055-01	6.566032-01
2.000000 01	3.613333 02	0.006162 00	1.491845-01	2.264216-01	4.671801-01	2.986602-01	5.860595-01
2.200000 01	4.413333 02	0.006162 00	1.336885-01	2.031550-01	4.190925-01	2.678312-01	5.255504-01
2.400000 01	5.293333 02	0.006162 00	1.176659-01	1.790926-01	3.693589-01	2.359556-01	4.629900-01
2.600000 01	6.253333 02	0.006162 00	1.012303-01	1.546163-01	3.187284-01	2.034102-01	3.990859-01
2.800000 01	7.293333 02	0.006162 00	8.484129-02	1.300889-01	2.680408-01	1.709417-01	3.353485-01
3.000000 01	8.413333 02	0.006162 00	6.816269-02	1.058105-01	2.175715-01	1.381718-01	2.706993-01
3.300000 01	1.489500 03	0.006162 00	4.853757-02	7.722224-02	1.585052-01	1.000925-01	1.958996-01
3.605000 01	1.818944 03	0.006162 00	2.401649-02	4.402647-02	8.852415-02	5.322538-02	1.029733-01
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1.451276 00	1.708096 00	1.460569 00	1.556157 00	1.334568 00	5.702235-01	4.504168-01	4.190337-01
1.438634 00	1.693212 00	1.447836 00	1.542585 00	1.322924 00	5.652451-01	4.464827-01	4.153739-01
1.413458 00	1.663575 00	1.422486 00	1.515569 00	1.299747 00	5.553386-01	4.386553-01	4.080909-01
1.363190 00	1.604407 00	1.371888 00	1.461651 00	1.253495 00	5.355714-01	4.230379-01	3.935582-01
1.298635 00	1.528426 00	1.306918 00	1.392421 00	1.194109 00	5.101929-01	4.029877-01	3.748996-01
1.233789 00	1.452109 00	1.241661 00	1.322884 00	1.134456 00	4.846994-01	3.828460-01	3.561549-01
1.159639 00	1.364844 00	1.167042 00	1.243367 00	1.066239 00	4.555445-01	3.598105-01	3.347160-01
1.054615 00	1.241249 00	1.061354 00	1.130732 00	9.695974-01	4.142368-01	3.271706-01	3.043375-01
9.413097-01	1.107904 00	9.473258-01	1.009195 00	8.653074-01	3.696594-01	2.919445-01	2.715473-01
8.441119-01	9.935175-01	8.494888-01	9.048946-01	7.757889-01	3.313852-01	2.616956-01	2.433914-01
7.436114-01	8.752127-01	7.482963-01	7.969930-01	6.831654-01	2.917874-01	2.303957-01	2.142467-01
6.409116-01	7.543278-01	6.448386-01	6.866386-01	5.884099-01	2.512496-01	1.983466-01	1.844189-01
5.384459-01	6.336020-01	5.415309-01	5.764128-01	4.937543-01	2.107786-01	1.663416-01	1.546028-01
4.347092-01	5.114545-01	4.368777-01	4.647144-01	3.978154-01	1.696944-01	1.338466-01	1.243826-01
3.136319-01	3.686321-01	3.144882-01	3.339825-01	2.855033-01	1.215860-01	9.574194-02	8.893142-02
1.631945-01	1.919208-01	1.628374-01	1.721996-01	1.466957-01	6.191869-02	4.853208-02	4.531803-02
							OCT 04 58
3.753151-01	3.182508-01	2.360885-01	1.602035-01	8.630203-02	1.391599-01		
3.720363-01	3.154689-01	2.340231-01	1.588011-01	8.554637-02	1.379403-01		
3.655113-01	3.099337-01	2.299148-01	1.560120-01	8.404335-02	1.355150-01		
3.524909-01	2.988890-01	2.217188-01	1.504488-01	8.104577-02	1.306796-01		
3.357730-01	2.847086-01	2.111970-01	1.433079-01	7.719902-02	1.244749-01		
3.189780-01	2.704620-01	2.006253-01	1.361324-01	7.333252-02	1.182385-01		
2.997681-01	2.541666-01	1.885333-01	1.279254-01	6.891194-02	1.111070-01		
2.725458-01	2.310723-01	1.713939-01	1.162908-01	6.264195-02	1.009923-01		
2.431611-01	2.061437-01	1.528947-01	1.037347-01	5.587921-02	9.008043-02		
2.179269-01	1.847318-01	1.369997-01	9.294181-02	5.005968-02	8.069017-02		
1.918069-01	1.625725-01	1.205559-01	8.178103-02	4.405182-02	7.098850-02		
1.650721-01	1.398799-01	1.036994-01	7.032710-02	3.786969-02	6.100523-02		
1.383544-01	1.172195-01	8.688601-02	5.891385-02	3.172754-02	5.105936-02		
1.112750-01	9.422470-02	6.978718-02	4.728324-02	2.544481-02	4.089622-02		
7.955317-02	6.730748-02	4.975701-02	3.362721-02	1.806440-02	2.877049-02		
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0.000000 00	3.189590 02	7.867979 00					
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0.000000 00	6.792149 02	1.480101 01					
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0.000000 00	1.162515 03	2.327078 01					
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0.000000 00	1.243248 03	2.462525 01					
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0.000000 00	4.785015 03	5.348711 01					
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2.010100 00	3.800000 01	1.009289 00	1.000000-04	3.870580-04	6.207499 02	6.150013 02	3.711654 03
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3.000000 00	4.500000 00	0.006162 00	1.295262-01	2.031909-01	4.202191-01	2.684789-01	5.297026-01
6.000000 00	3.150000 01	0.006162 00	1.277082-01	2.003704-01	4.143650-01	2.647237-01	5.222875-01
9.000000 00	8.550000 01	0.006162 00	1.241118-01	1.947529-01	4.027293-01	2.572796-01	5.075955-01
1.200000 01	1.665000 02	0.006162 00	1.188268-01	1.864811-01	3.856068-01	2.463326-01	4.859937-01
1.500000 01	2.745000 02	0.006162 00	1.119849-01	1.757660-01	3.634317-01	2.321580-01	4.580243-01
1.800000 01	4.095000 02	0.006162 00	1.037541-01	1.628743-01	3.367553-01	2.151069-01	4.243804-01

2.000000 01	3.613333 02	0.006162 00	9.604436-02	1.508005-01	3.117723-01	1.991380-01	3.928730-01
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2.700000 01	9.765000 02	0.006162 00	7.285322-02	1.145686-01	2.367878-01	1.511802-01	2.982536-01
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3.300000 01	1.489500 03	0.006162 00	4.953814-02	7.837488-02	1.618542-01	1.031925-01	2.035877-01
3.600000 01	1.786500 03	0.006162 00	3.783962-02	6.039814-02	1.245979-01	7.928934-02	1.564254-01
3.900000 01	2.110500 03	0.006162 00	2.637517-02	4.321669-02	8.890837-02	5.619778-02	1.107730-01
4.200000 01	2.461500 03	0.006162 00	1.540400-02	2.725211-02	5.560151-02	3.441408-02	6.750227-02
4.322000 01	1.107598 03	0.006162 00	7.452168-03	1.646319-02	3.253338-02	1.866485-02	3.597762-02
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8.500208-01	1.025638 00	9.035577-01	1.011503 00	9.429995-01	4.668027-01	4.250196-01	4.154810-01
8.261007-01	9.967691-01	8.781212-01	9.830278-01	9.164557-01	4.536638-01	4.130576-01	4.037884-01
7.909365-01	9.543338-01	8.407354-01	9.411793-01	8.774479-01	4.343560-01	3.954793-01	3.866061-01
7.454106-01	8.993997-01	7.923425-01	8.870145-01	8.269626-01	4.093676-01	3.727298-01	3.643691-01
6.906528-01	8.333331-01	7.341489-01	8.218860-01	7.662613-01	3.793234-01	3.453775-01	3.376331-01
6.393756-01	7.714727-01	6.796659-01	7.609148-01	7.094365-01	3.511982-01	3.197722-01	3.126044-01
6.062358-01	7.314984-01	6.444608-01	7.215192-01	6.727206-01	3.330256-01	3.032277-01	2.964323-01
5.590014-01	6.745308-01	5.942985-01	6.653886-01	6.204067-01	3.071323-01	2.796531-01	2.733875-01
4.854135-01	5.857987-01	5.161686-01	5.779615-01	5.389186-01	2.667963-01	2.429276-01	2.374855-01
4.089495-01	4.936148-01	4.350082-01	4.871318-01	4.542431-01	2.248779-01	2.047575-01	2.001681-01
3.314193-01	4.001643-01	3.527094-01	3.949936-01	3.683187-01	1.823324-01	1.660112-01	1.622648-01
2.546693-01	3.076059-01	2.711661-01	3.036413-01	2.830886-01	1.401227-01	1.275655-01	1.246919-01
1.802119-01	2.177688-01	1.918939-01	2.147359-01	2.001056-01	9.901412-02	9.011862-02	8.808193-02
1.093099-01	1.321455-01	1.162076-01	1.297829-01	1.208233-01	5.973738-02	5.434284-02	5.312083-02
5.745753-02	6.971893-02	6.087540-02	6.771581-02	6.296353-02	3.107292-02	2.824336-02	2.764062-02
							OCT 04 58
3.969254-01	3.731882-01	3.357775-01	2.894614-01	2.358171-01	2.609657 00		
3.913619-01	3.679572-01	3.310704-01	2.854027-01	2.325097-01	2.573017 00		
3.803487-01	3.576031-01	3.217544-01	2.773715-01	2.259666-01	2.500544 00		
3.641651-01	3.423882-01	3.080653-01	2.655710-01	2.163531-01	2.394044 00		
3.432206-01	3.226975-01	2.903492-01	2.502990-01	2.039116-01	2.256157 00		
3.180384-01	2.990225-01	2.690482-01	2.319364-01	1.889521-01	2.090255 00		
2.944640-01	2.768587-01	2.491065-01	2.147455-01	1.749473-01	1.934833 00		
2.792311-01	2.625366-01	2.362196-01	2.036349-01	1.658941-01	1.834295 00		
2.575240-01	2.421271-01	2.178551-01	1.878031-01	1.529967-01	1.690897 00		
2.237041-01	2.103264-01	1.892376-01	1.631273-01	1.328883-01	1.467083 00		
1.885487-01	1.772678-01	1.594865-01	1.374736-01	1.119847-01	1.233987 00		
1.528549-01	1.436963-01	1.292643-01	1.114004-01	9.072341-02	9.963877-01		
1.174340-01	1.103789-01	9.926668-02	8.551673-02	6.961499-02	7.600182-01		
8.292912-02	7.790366-02	6.999486-02	6.021166-02	4.892180-02	5.281826-01		
4.996989-02	4.686130-02	4.197746-02	3.593260-02	2.898919-02	3.064330-01		
2.592636-02	2.419004-02	2.147850-02	1.810908-02	1.427570-02	1.462111-01		

D/U^{235} =431 REFL. D_2O

SEP 06 58

4.330000-01	5.700000 01	9.831851-01	1.000000-04	8.678436-05	0.000000 00	1.231450 01	1.210744 01

SEP 06 58

4.000000 00	1.066666 01	0.006462 00	6.244056-03	9.742537-03	2.018113-02	1.289924-02	2.541958-02
8.000000 00	7.466666 01	0.006462 00	6.040359-03	9.448259-03	1.958012-02	1.252384-02	2.469638-02
1.200000 01	2.026666 02	0.006462 00	5.682336-03	8.937446-03	1.852527-02	1.186105-02	2.338504-02
1.600000 01	3.946666 02	0.006462 00	5.311262-03	8.315267-03	1.721116-02	1.102482-02	2.161995-02
1.800000 01	2.893333 02	0.006462 00	5.142742-03	7.769323-03	1.606144-02	1.030096-02	2.000999-02
2.000000 01	3.613333 02	0.006462 00	5.279863-03	7.568005-03	1.547838-02	9.845008-03	1.874625-02
2.300000 01	6.945000 02	0.006462 00	6.351272-03	6.470524-03	1.319356-02	8.298376-03	1.552001-02
2.337000 01	9.944776 01	0.006462 00	7.464996-03	4.842626-03	1.015846-02	6.425270-03	1.221901-02
2.347000 01	2.742483 01	0.006724 00	0.000000 00	4.193941-03	8.905815-03	5.730314-03	1.119279-02
2.400000 01	1.492940 02	0.007166 00	0.000000 00	3.610987-03	7.654166-03	4.989966-03	9.999607-03
2.600000 01	6.253333 02	0.007166 00	0.000000 00	2.359336-03	5.102086-03	3.359314-03	7.131369-03
3.000000 01	1.570666 03	0.007166 00	0.000000 00	1.017298-03	2.281020-03	1.501120-03	3.460724-03
3.500000 01	2.645833 03	0.007166 00	0.000000 00	3.576651-04	7.761297-04	4.775031-04	1.153409-03
4.000000 01	3.520833 03	0.007166 00	0.000000 00	1.134269-04	2.378493-04	1.321666-04	3.212770-04
4.445000 01	3.970736 03	0.007166 00	0.000000 00	3.740501-05	7.227734-05	3.762151-05	8.849898-05

SEP 06 58

4.113362-02	4.888674-02	4.212500-02	4.534104-02	3.982353-02	1.811130-02	1.521132-02	1.436819-02
3.996459-02	4.741607-02	4.075611-02	4.374467-02	3.835139-02	1.742976-02	1.463517-02	1.382487-02
3.774620-02	4.450274-02	3.800117-02	4.054419-02	3.542888-02	1.608654-02	1.350830-02	1.276922-02
3.449695-02	4.002447-02	3.376611-02	3.573889-02	3.115633-02	1.415475-02	1.190879-02	1.128837-02
3.135572-02	3.563813-02	2.969366-02	3.125379-02	2.726259-02	1.243313-02	1.049952-02	9.997357-03
2.860451-02	3.183929-02	2.633445-02	2.774179-02	2.435481-02	1.116091-02	9.482097-03	9.076721-03
2.624367-02	2.903926-02	2.436217-02	2.505122-02	2.065394-02	9.617850-03	8.262517-03	7.969362-03
1.884316-02	2.135974-02	1.825166-02	1.983312-02	1.623956-02	8.647501-03	7.477853-03	7.252068-03
1.757030-02	2.040456-02	1.753222-02	1.911070-02	1.755053-02	8.395891-03	7.300162-03	7.066530-03
1.625151-02	1.922740-02	1.665499-02	1.827042-02	1.671541-02	8.084686-03	7.114374-03	6.862781-03
1.253034-02	1.586947-02	1.425698-02	1.604853-02	1.493598-02	7.351076-03	6.585918-03	6.360958-03
6.871739-03	9.840220-03	9.555105-03	1.142193-02	1.110210-02	5.638979-03	5.201054-03	5.091615-03
2.576561-03	4.316676-03	4.702809-03	6.200917-03	6.483042-03	3.434425-03	3.278823-03	3.296557-03
7.711199-04	1.487701-03	1.821486-03	2.690439-03	3.067017-03	1.700423-03	1.680763-03	1.741239-03
2.117496-04	4.418098-04	5.816087-04	9.308970-04	1.132206-03	6.485349-04	6.568179-04	6.956073-04

SEP 06 58

1.308317-02	1.159553-02	9.400254-03	7.124751-03	4.624146-03	1.303698-02	
1.259203-02	1.116497-02	9.055371-03	6.866078-03	4.457175-03	1.268644-02	
1.164367-02	1.033797-02	8.396337-03	6.374891-03	4.142221-03	1.218970-02	
1.032511-02	9.196124-03	7.493131-03	5.707742-03	3.718810-03	1.216097-02	
9.162728-03	8.211745-03	6.720154-03	5.142351-03	3.365437-03	1.293518-02	
8.374253-03	7.520326-03	6.186270-03	4.764018-03	3.139836-03	1.480556-02	
7.366174-03	6.677365-03	5.564878-03	4.359634-03	2.980399-03	2.167620-02	
6.728907-03	6.111915-03	5.157853-03	4.100658-03	2.918758-03	2.828867-02	
6.554476-03	5.980573-03	5.104113-03	4.112632-03	3.027211-03	3.200448-02	
6.371995-03	5.859315-03	5.084350-03	4.185524-03	3.217574-03	3.690995-02	
5.926782-03	5.505995-03	4.876199-03	4.121741-03	3.322514-03	4.410560-02	
4.800546-03	4.533472-03	4.120467-03	3.595326-03	3.040789-03	5.164273-02	
3.176108-03	3.061874-03	2.848454-03	2.547865-03	2.219720-03	4.876577-02	
1.721016-03	1.676194-03	1.609413-03	1.464308-03	1.295436-03	3.468247-02	
6.992332-04	6.983860-04	6.687927-04	6.104073-04	5.388299-04	1.592150-02	

D/U^{235} =34.2 REFL. D_2O

							SEP 06 58
4.346000-01	5.000000 01	9.759099-01	1.000000-04	9.422749-05	0.000000 00	4.571967 01	4.461827 01
							SEP 06 58
0.64000 BB	0.12567						
0.000000 00	9.993527 00	3.638251 00	5.819832-02	3.497056 00	3.582251-01	2.826917-02	
0.64000 BB	0.12567						
0.000000 00	2.186654 01	6.309822 00	5.032185-01	6.252071 00	3.785860 00	4.388208-02	
0.64000 BB	0.12567						
0.000000 00	1.796487 01	3.093747 00	4.074567-01	3.099567 00	6.698500 00	1.663480-02	
0.64000 BB	0.12567						
0.000000 00	3.481042 01	4.506674 00	8.755902-01	4.601250 00	1.885564 01	3.404004-02	
0.64000 BB	0.12567						
0.000000 00	5.243735 01	4.694624 00	1.194169 00	4.759293 00	4.258136 01	7.638788-02	
0.64000 BB	0.12567						
0.000000 00	5.306958 01	3.476299 00	1.795633 00	3.471966 00	6.219209 01	1.771942-01	
0.64000 BB	0.12567						
0.000000 00	4.111077 01	1.940559 00	1.867232 00	1.927772 00	6.537106 01	2.523548-01	
0.64000 BB	0.12567						
0.000000 00	3.745541 01	1.186419 00	2.067654 00	1.141812 00	8.188645 01	4.610750-01	
0.64000 BB	0.12567						
0.000000 00	2.543069 01	1.130473-01	2.486304 00	1.520131-01	8.103056 01	6.346764-01	
0.64000 BB	0.12567						
0.000000 00	8.565324 00	-4.837471-01	9.099362-01	-4.610599-01	4.133459 01	3.871665-01	
0.64000 BB	0.12567						
0.000000 00	4.726672 00	-5.427509-01	6.190443-01	-5.552748-01	3.809366 01	4.117666-01	
0.64000 BB	0.12567						
0.000000 00	3.190130 00	-4.283508-01	5.625959-01	-4.344297-01	3.712308 01	4.551952-01	
0.64000 BB	0.12567						
0.000000 00	2.633703 00	-3.393094-01	4.908403-01	-3.496457-01	3.545002 01	4.701195-01	
0.64000 BB	0.12567						
0.000000 00	2.115090 00	-3.539514-01	3.978608-01	-3.676324-01	3.406307 01	4.791202-01	
0.64000 BB	0.12567						
0.000000 00	1.365332 00	-3.715822-01	2.954394-01	-3.884653-01	3.199803 01	4.627976-01	
0.64000 BB	0.12567						
0.000000 00	7.458453-01	-3.297441-01	2.166176-01	-3.521562-01	2.988478 01	4.165695-01	
0.64000 BB	0.12567						
0.000000 00	3.575368-01	-2.760071-01	1.566511-01	-3.028118-01	2.788813 01	3.566484-01	
0.64000 BB	0.12567						
0.000000 00	1.891536 00	-5.204374 00	2.543097 00	-5.702105 00	8.694136 02	1.470356 01	
							SEP 06 58
4.346000-01	5.100000 01	9.759560-01	1.000000-04	4.611164-05	0.000000 00	4.571967 01	4.462038 01
							SEP 06 58
2.000000 00	1.333333 00	0.010144 00	4.397410-02	6.969845-02	1.437939-01	9.258276-02	1.807980-01
4.000000 00	9.333333 00	0.010144 00	4.353032-02	6.903766-02	1.424381-01	9.173247-02	1.791104-01
6.000000 00	2.533333 01	0.010144 00	4.266117-02	6.776245-02	1.398150-01	9.007798-02	1.758087-01
8.000000 00	4.933333 01	0.010144 00	4.143891-02	6.598038-02	1.361301-01	8.773599-02	1.710539-01

1.000000 01	8.133333 01	0.010144 00	4.001650-02	6.386016-02	1.317024-01	8.402821-02	1.650667-01
1.200000 01	1.213333 02	0.010144 00	3.862602-02	6.157421-02	1.268764-01	8.175747-02	1.580367-01
1.400000 01	1.693333 02	0.010144 00	3.827102-02	5.945421-02	1.222312-01	7.966714-02	1.508630-01
1.500000 01	1.051666 02	0.010144 00	4.021997-02	5.867027-02	1.199230-01	7.869500-02	1.437672-01
1.600000 01	1.201666 02	0.010144 00	5.079791-02	6.068372-02	1.225040-01	7.702781-02	1.405444-01
1.650000 01	8.602083 01	0.010144 00	7.476023-02	6.338401-02	1.265704-01	7.819806-02	1.388495-01
1.690000 01	5.578061 01	0.010144 00	1.145536-01	6.204742-02	1.243403-01	7.655377-02	1.340334-01
1.714000 01	3.470219 01	0.010144 00	1.739876-01	5.466657-02	1.121061-01	6.989161-02	1.246149-01
1.724000 01	1.477483 01	0.006472 00	0.000000 00	4.726017-02	9.808857-02	6.247906-02	1.147262-01
1.800000 01	1.179948 02	0.010406 00	0.000000 00	3.753780-02	7.815926-02	5.072350-02	9.713827-02
2.000000 01	3.613333 02	0.010406 00	0.000000 00	2.161788-02	4.649150-02	3.083671-02	6.421410-02
2.500000 01	1.270833 03	0.010406 00	0.000000 00	8.184458-03	1.827218-02	1.215776-02	2.782174-02
3.000000 01	1.895833 03	0.010406 00	0.000000 00	2.108637-03	4.587961-03	2.726407-03	6.727931-03
3.500000 01	2.645833 03	0.010406 00	0.000000 00	6.242733-04	1.295559-03	7.042557-04	1.748295-03
4.000000 01	3.520833 03	0.010406 00	0.000000 00	1.897882-04	3.845457-04	2.176010-04	5.097227-04
4.445000 01	3.970736 03	0.010406 00	0.000000 00	6.497745-05	1.220507-04	5.876254-05	1.406544-04

SEP 06 58

2.621296-01	3.072715-01	2.346964-01	2.043678-01	1.234364-01	2.884473-02	1.361245-02	1.036401-02
2.793030-01	3.038075-01	2.320053-01	2.017730-01	1.219236-01	2.851350-02	1.346506-02	1.031720-02
2.737159-01	2.968978-01	2.262215-01	1.965932-01	1.190125-01	2.786434-02	1.318343-02	1.019624-02
2.654625-01	2.865282-01	2.175393-01	1.888918-01	1.147179-01	2.693865-02	1.279688-02	1.006862-02
2.546068-01	2.726122-01	2.059418-01	1.787872-01	1.092594-01	2.561642-02	1.237160-02	1.002807-02
2.410252-01	2.549078-01	1.914119-01	1.665027-01	1.029770-01	2.466576-02	1.205844-02	1.026619-02
2.242153-01	2.329578-01	1.739849-01	1.524454-01	9.646204-02	2.388326-02	1.224991-02	1.116614-02
2.095565-01	2.138793-01	1.593471-01	1.411665-01	9.161510-02	2.381996-02	1.300524-02	1.247078-02
1.984722-01	1.992175-01	1.486398-01	1.334424-01	8.927942-02	2.456776-02	1.438344-02	1.405020-02
1.891759-01	1.872512-01	1.403096-01	1.277257-01	8.785987-02	2.571575-02	1.604176-02	1.562605-02
1.808610-01	1.790806-01	1.352224-01	1.244754-01	8.752665-02	2.712020-02	1.772940-02	1.696396-02
1.711601-01	1.724905-01	1.310096-01	1.223455-01	8.780078-02	2.885570-02	1.953845-02	1.818229-02
1.626930-01	1.669666-01	1.285259-01	1.208201-01	8.846224-02	3.140862-02	2.227854-02	1.993295-02
1.460138-01	1.556319-01	1.222549-01	1.172766-01	8.890603-02	3.447566-02	2.576212-02	2.254734-02
1.079108-01	1.268496-01	1.053625-01	1.061364-01	8.507689-02	3.607709-02	2.864064-02	2.513435-02
5.393850-02	7.375601-02	6.800433-02	7.532573-02	6.634111-02	3.100218-02	2.656266-02	2.427062-02
1.570041-02	2.721988-02	2.982066-02	3.862239-02	3.889031-02	1.999543-02	1.859891-02	1.796469-02
4.370055-03	8.839602-03	1.112349-02	1.665055-02	1.892202-02	1.042209-02	1.019925-02	1.042764-02
1.245855-03	2.725238-03	3.768000-03	6.337855-03	7.985242-03	4.647097-03	4.756019-03	5.074601-03
3.441214-04	7.716256-04	1.114703-03	2.019992-03	2.732573-03	1.652756-03	1.742449-03	1.910081-03

SEP 06 58

7.766125-03	4.349743-03	1.658966-03	5.482559-04	1.109512-04	3.796958-05	
7.766456-03	4.367619-03	1.667554-03	5.515025-04	1.115957-04	3.942039-05	
7.780659-03	4.415552-03	1.691166-03	5.604368-04	1.134071-04	4.008805-05	
7.860313-03	4.532219-03	1.747287-03	5.812399-04	1.176555-04	4.042406-05	
8.101372-03	4.769869-03	1.871264-03	6.277841-04	1.270254-04	4.770015-05	
8.677537-03	5.323736-03	2.137845-03	7.326497-04	1.473617-04	4.283349-05	
9.882678-03	6.391497-03	2.748716-03	1.021966-03	2.088276-04	1.690458-04	
1.131532-02	7.668093-03	3.584962-03	1.486967-03	3.207296-04	7.952219-04	
1.279360-02	9.042886-03	4.696196-03	2.273846-03	6.342348-04	4.538889-03	
1.417680-02	1.038623-02	5.945215-03	3.281916-03	1.209630-03	1.382058-02	
1.520937-02	1.148669-02	7.161884-03	4.392651-03	2.067382-03	2.995989-02	
1.605050-02	1.250660-02	8.515315-03	5.766304-03	3.425160-03	5.441737-02	
1.739189-02	1.405316-02	1.039406-02	7.617707-03	5.505231-03	9.541123-02	
1.943064-02	1.623998-02	1.277975-02	9.859856-03	7.508283-03	1.311883-01	
2.167495-02	1.865926-02	1.543968-02	1.245965-02	9.923307-03	1.850175-01	
2.121313-02	1.920266-02	1.664211-02	1.402626-02	1.164393-02	2.526374-01	
1.669603-02	1.555060-02	1.403887-02	1.226614-02	1.050894-02	2.764758-01	
1.015044-02	9.842969-03	9.194203-03	8.255162-03	7.226338-03	2.299651-01	
5.132784-03	5.148544-03	4.949317-03	4.545349-03	4.047567-03	1.516807-01	
1.978983-03	2.026685-03	1.979680-03	1.833577-03	1.636577-03	6.736663-02	

Be/U^{235} =364 10 MIL FOIL

0.64000 BR	0.05106		
0.000000 00	4.414243 01	6.016926 00	
0.64000 BR	0.05106		
0.000000 00	2.315463 02	1.909589 01	
0.64000 BR	0.05106		
0.000000 00	2.551030 02	8.813713 00	
0.64000 BR	0.05106		
0.000000 00	6.315497 02	1.278599 01	
0.64000 BR	0.05106		
0.000000 00	1.103367 03	1.626049 01	
0.64000 BR	0.05106		
0.000000 00	1.306378 03	1.217384 01	
0.64000 BR	0.05106		
0.000000 00	1.169279 03	1.037522 01	
0.64000 BR	0.05106		
0.000000 00	8.917879 02	7.559303 00	
0.64000 BR	0.05106		
0.000000 00	7.915672 02	6.468578 00	
0.64000 BR	0.05106		
0.000000 00	4.664802 02	3.634837 00	
0.64000 BR	0.05106		
0.000000 00	3.927022 02	3.038822 00	
0.64000 BR	0.05106		
0.000000 00	3.431587 02	2.702586 00	
0.64000 BR	0.05106		
0.000000 00	2.826271 02	2.129321 00	
0.64000 BR	0.05106		
0.000000 00	2.383484 02	1.828480 00	
0.64000 BR	0.05106		
0.000000 00	1.808759 02	1.285343 00	
0.64000 BR	0.05106		
0.000000 00	1.259291 02	8.651912-01	
0.64000 BR	0.05106		
0.000000 00	7.965947 01	5.155710-01	
0.64000 BR	0.05106		
0.000000 00	1.233103 02	7.742928-01	

							AUG 04 58
2.501000-01	7.500000 01	9.939030-01	1.000000-04	-6.893208-04	2.103321 02	2.117476 02	9.749600 02
							AUG 04 58
2.000000 00	1.333333 00	0.006404 00	1.127793-01	1.866748-01	6.991738-01	4.547274-01	8.348474-01
4.000000 00	9.333333 00	0.006404 00	1.115451-01	1.846957-01	6.915948-01	4.497316-01	8.256230-01
6.000000 00	2.533333 01	0.006404 00	1.090968-01	1.806810-01	6.763750-01	4.397711-01	8.072836-01

8.000000 00	4.933333 01	0.006404 00	1.054682-01	1.746869-01	6.537570-01	4.250059-01	7.801313-01
1.000000 01	8.133333 01	0.006404 00	1.007092-01	1.668147-01	6.241435-01	4.056914-01	7.446275-01
1.200000 01	1.213333 02	0.006404 00	9.489775-02	1.572023-01	5.880763-01	3.821748-01	7.014102-01
1.400000 01	1.693333 02	0.006404 00	8.811307-02	1.460253-01	5.462341-01	3.548837-01	6.512381-01
1.600000 01	2.253333 02	0.006404 00	8.048157-02	1.334921-01	4.994228-01	3.243427-01	5.950846-01
1.800000 01	2.893333 02	0.006404 00	7.210189-02	1.196481-01	4.485717-01	2.911243-01	5.339327-01
2.000000 01	3.613333 02	0.006404 00	6.316624-02	1.053730-01	3.947376-01	2.559450-01	4.691422-01
2.300000 01	6.945000 02	0.006404 00	5.135582-02	8.660774-02	3.250331-01	2.102077-01	3.845765-01
2.600000 01	9.015000 02	0.006404 00	3.694005-02	6.408021-02	2.413428-01	1.551175-01	2.822947-01
2.800000 01	7.293333 02	0.006404 00	2.489387-02	4.593607-02	1.735763-01	1.098765-01	1.974403-01
3.000000 01	8.413333 02	0.006404 00	1.573195-02	3.259465-02	1.234079-01	7.604224-02	1.330373-01
3.160000 01	7.590826 02	0.006404 00	7.453337-03	2.164021-02	7.855740-02	4.410449-02	7.199789-02

AUG 04 58

1.241386 00	1.142871 00	1.016468 00	7.631439-01	6.684850-01	3.849131-01	3.244697-01	2.876871-01
1.227635 00	1.130239 00	1.005764 00	7.547454-01	6.611376-01	3.806833-01	3.209051-01	2.845277-01
1.220330 00	1.105191 00	9.830467-01	7.380914-01	6.465672-01	3.722960-01	3.138361-01	2.782612-01
1.159927 00	1.068128 00	9.501652-01	7.134380-01	6.249928-01	3.598750-01	3.033658-01	2.689775-01
1.107105 00	1.019644 00	9.071338-01	6.811620-01	5.967359-01	3.436026-01	2.896457-01	2.568095-01
1.042814 00	9.606202-01	8.547145-01	6.418248-01	5.622794-01	3.237547-01	2.729059-01	2.419582-01
9.681490-01	8.919835-01	7.937106-01	5.960129-01	5.221238-01	3.006144-01	2.533826-01	2.246319-01
8.845621-01	8.151133-01	7.253099-01	5.446037-01	4.770280-01	2.746181-01	2.314409-01	2.051512-01
7.934267-01	7.311097-01	6.504676-01	4.882936-01	4.275894-01	2.461041-01	2.073663-01	1.837714-01
6.967842-01	6.419630-01	5.708923-01	4.283545-01	3.749205-01	2.157180-01	1.817026-01	1.609734-01
5.961972-01	5.496550-01	4.659344-01	3.491898-01	3.053093-01	1.755472-01	1.477752-01	1.308400-01
4.164557-01	3.836366-01	3.376518-01	2.523812-01	2.202020-01	1.264529-01	1.063278-01	9.404823-02
2.881363-01	2.654985-01	2.298397-01	1.711083-01	1.488604-01	8.533581-02	7.165081-02	6.330626-02
1.900781-01	1.689084-01	1.469811-01	1.088809-01	9.440491-02	5.398975-02	4.525540-02	3.995879-02
9.827929-02	8.256080-02	7.091797-02	5.216568-02	4.499672-02	2.559293-02	2.141177-02	1.892873-02

AUG 04 58

2.312295-01	1.977707-01	1.434896-01	9.821998-02	6.007873-02	9.153958-02	
2.286914-01	1.956022-01	1.419182-01	9.714603-02	5.942291-02	9.055145-02	
2.236573-01	1.913004-01	1.388013-01	9.501599-02	5.812237-02	8.859120-02	
2.161982-01	1.849247-01	1.341808-01	9.185761-02	5.619355-02	8.568121-02	
2.064186-01	1.765630-01	1.281187-01	8.771243-02	5.366118-02	8.185557-02	
1.944790-01	1.663503-01	1.207125-01	8.264630-02	5.056525-02	7.717124-02	
1.805438-01	1.544261-01	1.120606-01	7.672553-02	4.694531-02	7.168419-02	
1.648715-01	1.410094-01	1.023234-01	7.005950-02	4.286850-02	6.549309-02	
1.476643-01	1.262740-01	9.162414-02	6.273203-02	3.838504-02	5.867127-02	
1.293144-01	1.105571-01	8.021064-02	5.491350-02	3.360029-02	5.137753-02	
1.050591-01	8.978484-02	6.512265-02	4.457590-02	2.727149-02	4.170915-02	
7.546031-02	6.444625-02	4.672300-02	3.196835-02	1.955153-02	2.989224-02	
5.074645-02	4.330872-02	3.137489-02	2.145092-02	1.310894-02	2.001552-02	
3.199180-02	2.728798-02	1.973668-02	1.346991-02	8.215367-03	1.250621-02	
1.509294-02	1.288520-02	9.254102-03	6.286278-03	3.809244-03	5.766238-03	

Be/U^{235} =1670
10 MIL FOIL

								JUL 31 58
3.110000-01	2.600000 01	1.002064 00	1.000000-05	-3.922290-04	1.746973 02	1.744174 02	6.820281 02	
								JUL 31 58
3.110000-01	2.700000 01	1.001699 00	1.000000-05	-3.639199-04	1.745612 02	1.743374 02	6.818236 02	
								JUL 31 58
0.64000 BB	0.05360							
0.000000 00	3.624106 01	4.206903 00						
0.64000 BB	0.05360							
0.000000 00	1.962859 02	1.353087 01						
0.64000 BB	0.05360							
0.000000 00	2.186903 02	6.194165 00						
0.64000 BB	0.05360							
0.000000 00	5.455508 02	8.991381 00						
0.64000 BB	0.05360							
0.000000 00	9.641508 02	1.154448 01						
0.64000 BB	0.05360							
0.000000 00	1.162802 03	8.787117 00						
0.64000 BB	0.05360							
0.000000 00	1.069140 03	7.698717 00						
0.64000 BB	0.05360							
0.000000 00	8.444799 02	5.827226 00						
0.64000 BB	0.05360							
0.000000 00	7.984292 02	5.356801 00						
0.64000 BB	0.05360							
0.000000 00	5.146945 02	3.366941 00						
0.64000 BB	0.05360							
0.000000 00	4.817292 02	3.134353 00						
0.64000 BB	0.05360							
0.000000 00	4.553584 02	2.966907 00						
0.64000 BB	0.05360							
0.000000 00	4.230583 02	2.720496 00						
0.64000 BB	0.05360							
0.000000 00	3.950218 02	2.546041 00						
0.64000 BB	0.05360							
0.000000 00	3.570300 02	2.254253 00						
0.64000 BB	0.05360							
0.000000 00	3.145141 02	1.965924 00						
0.64000 BB	0.05360							
0.000000 00	2.685498 02	1.649951 00						
0.64000 BB	0.05360							
0.000000 00	1.560699 03	9.247534 00						
								JUL 31 58
3.110000-01	2.800000 01	1.001368 00	1.000000-05	-3.305773-04	1.744374 02	1.742650 02	6.816493 02	
								JUL 31 58
1.867000 00	1.084630 00	0.006414 00	6.819548-02	1.167694-01	4.456900-01	2.892424-01	5.325537-01	
3.734000 00	7.592411 00	0.006414 00	6.765347-02	1.158719-01	4.421869-01	2.969475-01	5.283052-01	

5.601000 00	2.060797 01	0.006414 00	6.657509-02	1.140519-01	4.351681-01	2.823656-01	5.198432-01
7.468000 00	4.013131 01	0.006414 00	6.497307-02	1.113281-01	4.247063-01	2.755520-01	5.072745-01
9.335000 00	6.616243 01	0.006414 00	6.286642-02	1.077352-01	4.109410-01	2.665967-01	4.907637-01
1.120200 01	9.870134 01	0.006414 00	6.028033-02	1.033207-01	3.940598-01	2.556179-01	4.705302-01
1.306900 01	1.377480 02	0.006414 00	5.724613-02	9.814447-02	3.742964-01	2.427662-01	4.468466-01
1.493600 01	1.833025 02	0.006414 00	5.380098-02	9.227709-02	3.519275-01	2.282181-01	4.200362-01
1.680300 01	2.353647 02	0.006414 00	4.998791-02	8.580017-02	3.272703-01	2.121767-01	3.904694-01
1.867000 01	2.939347 02	0.006414 00	4.585508-02	7.880544-02	3.006802-01	1.948695-01	3.585603-01
2.053700 01	3.590126 02	0.006414 00	4.145597-02	7.139435-02	2.725476-01	1.765462-01	3.247606-01
2.240400 01	4.305981 02	0.006414 00	3.684788-02	6.367764-02	2.432939-01	1.574753-01	2.895535-01
2.427100 01	5.086916 02	0.006414 00	3.209308-02	5.577477-02	2.133678-01	1.379407-01	2.534431-01
2.613800 01	5.932926 02	0.006414 00	2.725483-02	4.781410-02	1.832402-01	1.182363-01	2.169421-01
2.800500 01	6.844017 02	0.006414 00	2.240233-02	3.993228-02	1.533990-01	9.865725-02	1.805508-01
2.987200 01	7.820184 02	0.006414 00	1.759893-02	3.227590-02	1.243400-01	7.948690-02	1.447242-01
3.173900 01	8.861427 02	0.006414 00	1.291900-02	2.500129-02	9.658182-02	6.097753-02	1.099169-01
3.360600 01	9.967750 02	0.006414 00	8.404131-03	1.826419-02	7.048713-02	4.325795-02	7.595814-02
3.450000 01	5.183740 02	0.006414 00	5.217217-03	1.362420-02	5.196912-02	3.052978-02	5.151483-02
3.540000 01	5.497062 02	0.006414 00	3.023014-03	1.085711-02	3.936266-02	2.112309-02	3.347975-02
							JUL 31 58
7.997750-01	7.491408-01	6.847892-01	5.333667-01	5.001461-01	3.191904-01	2.991791-01	2.940885-01
7.933779-01	7.431518-01	6.793205-01	5.291107-01	4.961580-01	3.166455-01	2.967938-01	2.818232-01
7.806487-01	7.312411-01	6.684453-01	5.206472-01	4.882270-01	3.115846-01	2.920500-01	2.773179-01
7.617525-01	7.135636-01	6.523049-01	5.080858-01	4.764550-01	3.040722-01	2.850080-01	2.706295-01
7.369387-01	6.903515-01	6.311105-01	4.915893-01	4.609932-01	2.942044-01	2.757572-01	2.618422-01
7.065375-01	6.619118-01	6.051400-01	4.713726-01	4.420410-01	2.821075-01	2.644152-01	2.510671-01
6.709573-01	6.286239-01	5.747365-01	4.477000-01	4.198432-01	2.679366-01	2.511265-01	2.384405-01
6.306810-01	5.909346-01	5.403031-01	4.208815-01	3.946871-01	2.518738-01	2.360604-01	2.241224-01
5.862605-01	5.493543-01	5.022988-01	3.912697-01	3.668987-01	2.341257-01	2.194096-01	2.082946-01
5.383085-01	5.044457-01	4.612280-01	3.592512-01	3.368362-01	2.149192-01	2.013858-01	1.911579-01
4.874899-01	4.568187-01	4.176352-01	3.252436-01	3.048865-01	1.945003-01	1.822190-01	1.729309-01
4.345073-01	4.071082-01	3.720855-01	2.896797-01	2.714526-01	1.731258-01	1.621508-01	1.539438-01
3.800869-01	3.559726-01	3.251630-01	2.530101-01	2.369578-01	1.510674-01	1.414375-01	1.341420-01
3.249522-01	3.040435-01	2.774315-01	2.156734-01	2.018192-01	1.285950-01	1.203365-01	1.140766-01
2.698038-01	2.519537-01	2.294629-01	1.781267-01	1.664816-01	1.059996-01	9.912691-02	9.391574-02
2.152626-01	2.002069-01	1.817406-01	1.407726-01	1.313482-01	8.354794-02	7.806682-02	7.391254-02
1.618478-01	1.493140-01	1.348012-01	1.040852-01	9.690278-02	6.156123-02	5.746585-02	5.436739-02
1.097809-01	9.932884-02	8.988806-02	6.832785-02	6.343035-02	4.022799-02	3.750911-02	3.546274-02
7.230031-02	6.333476-02	5.604309-02	4.285900-02	3.966010-02	2.509983-02	2.337690-02	2.209273-02
4.520065-02	3.754169-02	3.296955-02	2.509740-02	2.315635-02	1.461643-02	1.360572-02	1.286296-02
							JUL 31 58
2.626441-01	2.463030-01	2.203918-01	1.934902-01	1.638899-01	9.361648-01		
2.605492-01	2.443378-01	2.186327-01	1.919453-01	1.625811-01	9.287479-01		
2.563829-01	2.404297-01	2.151340-01	1.888726-01	1.599776-01	9.139888-01		
2.501972-01	2.346257-01	2.099387-01	1.843095-01	1.561112-01	8.920540-01		
2.420697-01	2.269996-01	2.031112-01	1.783122-01	1.510291-01	8.631937-01		
2.321022-01	2.176459-01	1.947359-01	1.709545-01	1.447936-01	8.277407-01		
2.204202-01	2.066817-01	1.849173-01	1.623278-01	1.374816-01	7.861110-01		
2.071708-01	1.942443-01	1.737779-01	1.525394-01	1.291842-01	7.388055-01		
1.925219-01	1.804910-01	1.614584-01	1.417128-01	1.200057-01	6.864035-01		
1.766587-01	1.655957-01	1.481145-01	1.299851-01	1.100628-01	6.295628-01		
1.597839-01	1.497491-01	1.339179-01	1.175078-01	9.948424-02	5.690209-01		
1.421117-01	1.331539-01	1.190512-01	1.044423-01	8.840766-02	5.055730-01		
1.238724-01	1.160283-01	1.037117-01	9.096365-02	7.698254-02	4.400918-01		
1.052992-01	9.859448-02	8.810061-02	7.724992-02	6.536089-02	3.734669-01		
8.664714-02	8.109511-02	7.243787-02	6.349624-02	5.370921-02	3.066766-01		
6.815391-02	6.375705-02	5.692776-02	4.988284-02	4.219033-02	2.406133-01		
5.010137-02	4.684671-02	4.181020-02	3.662060-02	3.095318-02	1.763260-01		
3.265718-02	3.052334-02	2.722314-02	2.382919-02	2.012696-02	1.143931-01		
2.032894-02	1.899617-02	1.692474-02	1.480136-02	1.248763-02	7.074091-02		
1.182196-02	1.105068-02	9.825338-03	8.582737-03	7.227566-03	4.077019-02		

BeO/U^{235} =982
2 MIL FOIL

0.64000 BB	0.12567							
0.000000 00	2.026894 00	1.392403-01						
0.64000 BB	0.12567							
0.000000 00	9.535562 00	5.769927-01						
0.64000 BB	0.12567							
0.000000 00	1.012906 01	1.731214-01						
0.64000 BB	0.12567							
0.000000 00	2.408607 01	2.772270-01						
0.64000 BB	0.12567							
0.000000 00	4.147176 01	3.906493-01						
0.64000 BB	0.12567							
0.000000 00	4.722376 01	3.691871-01						
0.64000 BB	0.12567							
0.000000 00	4.357745 01	3.103023-01						
0.64000 BB	0.12567							
0.000000 00	3.670277 01	2.494948-01						
0.64000 BB	0.12567							
0.000000 00	3.415697 01	2.275984-01						
0.64000 BB	0.12567							
0.000000 00	2.013871 01	1.315184-01						
0.64000 BB	0.12567							
0.000000 00	1.848711 01	1.198884-01						
0.64000 BB	0.12567							
0.000000 00	1.731142 01	1.129676-01						
0.64000 BB	0.12567							
0.000000 00	1.588841 01	1.024482-01						
0.64000 BB	0.12567							
0.000000 00	1.468336 01	9.501703-02						
0.64000 BB	0.12567							
0.000000 00	1.279447 01	8.054778-02						
0.64000 BB	0.12567							
0.000000 00	1.068105 01	6.631323-02						
0.64000 BB	0.12567							
0.000000 00	8.295349 00	4.985372-02						
0.64000 BB	0.12567							
0.000000 00	2.697498 01	1.579131-01						
								OCT 17 58
-3.930400-01	1.260000 02	9.713224-01	1.000000-04	1.005828-06	0.000000 00	6.325099 00	6.143710 00	OCT 17 58
1.740000 00	8.780040-01	0.010144 00	2.646015-03	5.090649-03	2.101801-02	1.043728-02	2.038584-02	
3.480000 00	6.146028 00	0.010144 00	2.626421-03	5.053656-03	2.086565-02	1.036062-02	2.023555-02	
5.220000 00	1.668207 01	0.010144 00	2.587444-03	4.979299-03	2.055985-02	1.020779-02	1.993639-02	
6.960000 00	3.248614 01	0.010144 00	2.529566-03	4.868452-03	2.010430-02	9.980662-03	1.949214-02	
8.700000 00	5.355824 01	0.010144 00	2.453503-03	4.722548-03	1.950501-02	9.682163-03	1.890852-02	

1.044000 01	7.989836 01	0.010144 00	2.360190-03	4.543494-03	1.877002-02	9.316195-03	1.819310-02
1.218000 01	1.115065 02	0.010144 00	2.250782-03	4.333633-03	1.790922-02	8.887566-03	1.735521-02
1.392000 01	1.483826 02	0.010144 00	2.126621-03	4.095717-03	1.693419-02	8.401924-03	1.640576-02
1.567000 01	1.917538 02	0.010144 00	1.988825-03	3.832052-03	1.585475-02	7.864026-03	1.535395-02
1.741000 01	2.382267 02	0.010144 00	1.839468-03	3.546878-03	1.468861-02	7.282533-03	1.421651-02
1.915000 01	2.909372 02	0.010144 00	1.680866-03	3.244803-03	1.345498-02	6.666868-03	1.301166-02
2.089000 01	3.489158 02	0.010144 00	1.514510-03	2.929147-03	1.216765-02	6.023648-03	1.175192-02
2.263000 01	4.121623 02	0.010144 00	1.342591-03	2.604206-03	1.084436-02	5.361572-03	1.045396-02
2.437000 01	4.806769 02	0.010144 00	1.166990-03	2.274550-03	9.503562-03	4.689163-03	9.133408-03
2.611000 01	5.544595 02	0.010144 00	9.903232-04	1.944871-03	8.163980-03	4.015942-03	7.808327-03
2.785000 01	6.335101 02	0.010144 00	8.139187-04	1.620231-03	6.844757-03	3.348741-03	6.489689-03
2.959000 01	7.178288 02	0.010144 00	6.415207-04	1.305659-03	5.564729-03	2.699517-03	5.200190-03
3.133000 01	8.074155 02	0.010144 00	4.721030-04	1.006785-03	4.341076-03	2.063016-03	3.926817-03
3.307000 01	9.022702 02	0.010144 00	3.132950-04	7.305306-04	3.204142-03	1.468705-03	2.723595-03
3.481000 01	1.002392 03	0.010144 00	1.539832-04	4.692925-04	2.057681-03	8.288633-04	1.452910-03
							OCT 17 58
3.211838-02	3.334250-02	2.952731-02	2.443177-02	2.263144-02	1.323561-02	1.214225-02	1.144466-02
3.188128-02	3.309639-02	2.930944-02	2.425154-02	2.246449-02	1.313796-02	1.205263-02	1.136014-02
3.140959-02	3.260685-02	2.887611-02	2.389307-02	2.213244-02	1.294371-02	1.187436-02	1.119203-02
3.070935-02	3.188021-02	2.823290-02	2.336096-02	2.163950-02	1.265534-02	1.160970-02	1.094243-02
2.978964-02	3.092587-02	2.738808-02	2.266200-02	2.099191-02	1.227647-02	1.126196-02	1.061447-02
2.866234-02	2.975610-02	2.635245-02	2.180506-02	2.019783-02	1.181185-02	1.083548-02	1.021220-02
2.734208-02	2.838601-02	2.513929-02	2.080101-02	1.926724-02	1.126730-02	1.033558-02	9.740634-03
2.584595-02	2.683315-02	2.376395-02	1.966246-02	1.821171-02	1.064956-02	9.768415-03	9.205565-03
2.418822-02	2.511217-02	2.223922-02	1.839984-02	1.704083-02	9.964204-03	9.139083-03	8.611785-03
2.239493-02	2.324971-02	2.058839-02	1.703227-02	1.577219-02	9.221500-03	8.457011-03	7.968187-03
2.049446-02	2.127489-02	1.883705-02	1.558078-02	1.442524-02	8.432823-03	7.732637-03	7.284623-03
1.850574-02	1.920663-02	1.700152-02	1.405874-02	1.301233-02	7.605408-03	6.972624-03	6.567418-03
1.645440-02	1.707127-02	1.510500-02	1.248536-02	1.155135-02	6.749777-03	6.186681-03	5.825771-03
1.436359-02	1.489153-02	1.316723-02	1.087699-02	1.005761-02	5.874953-03	5.383173-03	5.067676-03
1.226112-02	1.269681-02	1.121468-02	9.255918-03	8.552173-03	4.993416-03	4.573664-03	4.304110-03
1.016217-02	1.050121-02	9.259858-03	7.632903-03	7.045519-03	4.111435-03	3.764061-03	3.540818-03
8.103444-03	8.345797-03	7.340808-03	6.040454-03	5.568445-03	3.247279-03	2.971244-03	2.793770-03
6.066006-03	6.211128-03	5.442067-03	4.467100-03	4.111389-03	2.395532-03	2.190457-03	2.058721-03
4.138560-03	4.192599-03	3.649435-03	2.984457-03	2.740949-03	1.595124-03	1.457346-03	1.369252-03
2.143230-03	2.122293-03	1.824925-03	1.483222-03	1.358375-03	7.887557-04	7.198828-04	6.766600-04
							OCT 17 58
1.045139-02	9.700540-03	8.329909-03	6.913088-03	5.277162-03	1.700533-02		
1.037416-02	9.628811-03	8.268270-03	6.861896-03	5.238057-03	1.687921-02		
1.022055-02	9.486130-03	8.145661-03	6.760066-03	5.160271-03	1.662832-02		
9.992465-03	9.274269-03	7.963599-03	6.608857-03	5.044765-03	1.625572-02		
9.692750-03	8.995860-03	7.724342-03	6.410140-03	4.892965-03	1.576600-02		
9.325109-03	8.654337-03	7.430833-03	6.166357-03	4.706737-03	1.516512-02		
8.894103-03	8.253925-03	7.086703-03	5.880522-03	4.488381-03	1.446047-02		
8.405018-03	7.799532-03	6.696165-03	5.556135-03	4.240573-03	1.366067-02		
7.862230-03	7.295222-03	6.262718-03	5.196108-03	3.965542-03	1.277292-02		
7.273867-03	6.748558-03	5.792867-03	4.805849-03	3.667423-03	1.181058-02		
6.648956-03	6.167943-03	5.293858-03	4.391395-03	3.350842-03	1.078867-02		
5.993304-03	5.558808-03	4.770372-03	3.956649-03	3.018783-03	9.716867-03		
5.315377-03	4.929058-03	4.229256-03	3.507325-03	2.675638-03	8.609465-03		
4.622532-03	4.285596-03	3.676446-03	3.048368-03	2.325173-03	7.478687-03		
3.924902-03	3.637878-03	3.120154-03	2.586629-03	1.972661-03	6.341658-03		
3.227791-03	2.990925-03	2.564647-03	2.125645-03	1.620751-03	5.206958-03		
2.545896-03	2.358385-03	2.021744-03	1.675229-03	1.276981-03	4.098961-03		
1.875346-03	1.726763-03	1.488302-03	1.232748-03	9.392477-04	3.011132-03		
1.246732-03	1.154357-03	9.885167-04	8.181695-04	6.227229-04	1.992216-03		
6.154716-04	5.699884-04	4.868710-04	4.022834-04	3.051822-04	9.778027-04		

BeO/U^{235} =491
4 MIL FOIL

0.64000 BB	0.12567						
0.000000 00	3.941246 00	2.739766-01					
0.64000 BB	0.12567						
0.000000 00	1.847958 01	1.131265 00					
0.64000 BB	0.12567						
0.000000 00	1.961230 01	3.400106-01					
0.64000 BB	0.12567						
0.000000 00	4.663073 01	5.447269-01					
0.64000 BB	0.12567						
0.000000 00	8.019298 01	7.664057-01					
0.64000 BB	0.12567						
0.000000 00	9.097731 01	7.210141-01					
0.64000 BB	0.12567						
0.000000 00	8.342822 01	6.019009-01					
0.64000 BB	0.12567						
0.000000 00	6.956310 01	4.785453-01					
0.64000 BB	0.12567						
0.000000 00	6.336188 01	4.260830-01					
0.64000 BB	0.12567						
0.000000 00	3.598797 01	2.349151-01					
0.64000 BB	0.12567						
0.000000 00	3.175363 01	2.059805-01					
0.64000 BB	0.12567						
0.000000 00	2.898503 01	1.902685-01					
0.64000 BB	0.12567						
0.000000 00	2.544177 01	1.634132-01					
0.64000 BB	0.12567						
0.000000 00	2.261255 01	1.464466-01					
0.64000 BB	0.12567						
0.000000 00	1.825075 01	1.127273-01					
0.64000 BB	0.12567						
0.000000 00	1.375849 01	8.306415-02					
0.64000 BB	0.12567						
0.000000 00	9.381394 00	5.388981-02					
0.64000 BB	0.12567						
0.000000 00	1.888238 01	1.057943-01					
							OCT 17 58
-3.930200-01	1.210000 02	9.915700-01	1.000000-04	1.169741-06	0.000000 00	1.230902 01	1.220525 01
							OCT 17 58
1.730000 00	8.629528-01	0.010144 00	5.257284-03	1.008001-02	4.150275-02	2.062407-02	4.028820-02
3.450000 00	5.980984 00	0.010144 00	5.218567-03	1.000714-02	4.120340-02	2.047334-02	3.999267-02
5.180000 00	1.632136 01	0.010144 00	5.141435-03	9.860478-03	4.060171-02	2.017743-02	3.940354-02
6.910000 00	3.182459 01	0.010144 00	5.026616-03	9.641274-03	3.970307-02	1.972410-02	3.852691-02
8.630000 00	5.213271 01	0.010144 00	4.876176-03	9.353604-03	3.852443-02	1.913666-02	3.737778-02

1.036000 01	7.819982 01	0.010144 00	4.691525-03	9.000391-03	3.707816-02	1.841607-02	3.596890-02
1.209000 01	1.092062 02	0.010144 00	4.474409-03	8.585213-03	3.537943-02	1.756967-02	3.431406-02
1.381000 01	1.444361 02	0.010144 00	4.228706-03	8.115840-03	3.346065-02	1.661335-02	3.244411-02
1.554000 01	1.864983 02	0.010144 00	3.956756-03	7.597065-03	3.134210-02	1.555697-02	3.037805-02
1.727000 01	2.330080 02	0.010144 00	3.661066-03	7.034211-03	2.904625-02	1.441139-02	2.813675-02
1.899000 01	2.828913 02	0.010144 00	3.347022-03	6.437906-03	2.661716-02	1.319830-02	2.576223-02
2.072000 01	3.412169 02	0.010144 00	3.017427-03	5.814443-03	2.408104-02	1.193022-02	2.327809-02
2.245000 01	4.032298 02	0.010144 00	2.675639-03	5.170472-03	2.146534-02	1.062054-02	2.070987-02
2.417000 01	4.674982 02	0.010144 00	2.327290-03	4.518649-03	1.882123-02	9.293488-03	1.810291-02
2.590000 01	5.423555 02	0.010144 00	1.976541-03	3.866352-03	1.617798-02	7.963936-03	1.548520-02
2.762000 01	6.160558 02	0.010144 00	1.625959-03	3.223512-03	1.357305-02	6.645280-03	1.287829-02
2.935000 01	7.020726 02	0.010144 00	1.282984-03	2.600130-03	1.104384-02	5.361114-03	1.032700-02
3.108000 01	7.899142 02	0.010144 00	9.445144-04	2.005604-03	8.617251-03	4.097493-03	7.798487-03
3.280000 01	8.775526 02	0.010144 00	6.276972-04	1.457044-03	6.367125-03	2.920088-03	5.414703-03
3.453000 01	9.805478 02	0.010144 00	3.092397-04	9.377590-04	4.096102-03	1.651323-03	2.895124-03
							OCT 17 58
6.339613-02	6.555700-02	5.769042-02	4.723322-02	4.275946-02	2.395590-02	2.114135-02	1.949324-02
6.293045-02	6.507541-02	5.726673-02	4.688638-02	4.244545-02	2.377993-02	2.098600-02	1.934992-02
6.200262-02	6.411611-02	5.642281-02	4.619552-02	4.181997-02	2.342941-02	2.067653-02	1.906442-02
6.062181-02	6.268860-02	5.516698-02	4.516742-02	4.088909-02	2.290771-02	2.021592-02	1.863944-02
5.881362-02	6.081931-02	5.352241-02	4.382093-02	3.966977-02	2.222432-02	1.961251-02	1.808272-02
5.659610-02	5.852681-02	5.150526-02	4.216914-02	3.817374-02	2.138576-02	1.887203-02	1.739944-02
5.399148-02	5.583389-02	4.913537-02	4.022812-02	3.641540-02	2.040006-02	1.800152-02	1.659611-02
5.104801-02	5.279009-02	4.645601-02	3.803305-02	3.442642-02	1.928491-02	1.701658-02	1.568709-02
4.779524-02	4.942560-02	4.349338-02	3.560516-02	3.222583-02	1.805094-02	1.592655-02	1.468096-02
4.426535-02	4.577293-02	4.027555-02	3.296709-02	2.983395-02	1.670949-02	1.474143-02	1.358698-02
4.052377-02	4.189918-02	3.686113-02	3.016665-02	2.729401-02	1.528479-02	1.348262-02	1.242488-02
3.660614-02	3.783976-02	3.328054-02	2.722846-02	2.462825-02	1.378931-02	1.216118-02	1.120495-02
3.255144-02	3.363447-02	2.956857-02	2.418106-02	2.186268-02	1.223774-02	1.079015-02	9.939283-03
2.842821-02	2.935186-02	2.578492-02	2.107340-02	1.904200-02	1.065523-02	9.391892-03	8.648699-03
2.427929-02	2.503724-02	2.197035-02	1.793966-02	1.619789-02	9.059856-03	7.982528-03	7.348175-03
2.013458-02	2.071844-02	1.814943-02	1.480074-02	1.335021-02	7.462881-03	6.572280-03	6.047488-03
1.606660-02	1.647636-02	1.439671-02	1.171966-02	1.055734-02	5.897545-03	5.190653-03	4.773908-03
1.202668-02	1.226092-02	1.067141-02	8.665541-03	7.793279-03	4.349399-03	3.825311-03	3.516599-03
8.214104-03	8.284815-03	7.163305-03	5.794891-03	5.199968-03	2.897955-03	2.546283-03	2.340161-03
4.264008-03	4.203652-03	3.590384-03	2.886350-03	2.582017-03	1.434418-03	1.258924-03	1.158093-03
							OCT 17 58
1.692502-02	1.515526-02	1.191171-02	8.885470-03	5.896352-03	1.177373-02		
1.680050-02	1.504369-02	1.182395-02	8.819970-03	5.852862-03	1.168686-02		
1.655247-02	1.482143-02	1.164915-02	8.689487-03	5.766226-03	1.151379-02		
1.618325-02	1.449057-02	1.138892-02	8.495245-03	5.637254-03	1.125614-02		
1.569952-02	1.405706-02	1.104795-02	8.240726-03	5.468258-03	1.091848-02		
1.510581-02	1.352497-02	1.062942-02	7.928301-03	5.260807-03	1.050393-02		
1.440773-02	1.289930-02	1.013726-02	7.560904-03	5.016852-03	1.001637-02		
1.361774-02	1.219121-02	9.580255-03	7.145081-03	4.740734-03	9.464461-03		
1.274330-02	1.140738-02	8.963661-03	6.684775-03	4.435081-03	8.853431-03		
1.179244-02	1.055504-02	8.293151-03	6.184222-03	4.102701-03	8.188912-03		
1.078236-02	9.649625-03	7.580920-03	5.652544-03	3.749674-03	7.483075-03		
9.722021-03	8.699213-03	6.833323-03	5.094502-03	3.379152-03	6.742250-03		
8.622045-03	7.713388-03	6.057998-03	4.515832-03	2.994984-03	5.974176-03		
7.500574-03	6.708532-03	5.267786-03	3.926130-03	2.603508-03	5.191543-03		
6.370829-03	5.696538-03	4.472226-03	3.332558-03	2.209545-03	4.404019-03		
5.241318-03	4.685219-03	3.677293-03	2.739544-03	1.815933-03	3.617290-03		
4.135994-03	3.695992-03	2.900070-03	2.159838-03	1.431217-03	2.848415-03		
3.045340-03	2.720578-03	2.133670-03	1.588236-03	1.051780-03	2.090421-03		
2.025321-03	1.808914-03	1.417166-03	1.053670-03	6.967207-04	1.381392-03		
1.000405-03	8.939616-04	6.973752-04	5.170363-04	3.401903-04	6.718418-04		

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0.64000 BB	0.12567							
0.000000 00	3.539208 01	6.472651-01						
0.64000 BB	0.12567							
0.000000 00	8.408296 01	1.037800 00						
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0.000000 00	1.619196 02	1.353286 00						
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0.000000 00	1.463953 02	1.112801 00						
0.64000 BB	0.12567							
0.000000 00	1.194962 02	8.642119-01						
0.64000 BB	0.12567							
0.000000 00	1.042837 02	7.332733-01						
0.64000 BB	0.12567							
0.000000 00	5.643310 01	3.818455-01						
0.64000 BB	0.12567							
0.000000 00	4.737216 01	3.188305-01						
0.64000 BB	0.12567							
0.000000 00	4.161020 01	2.847956-01						
0.64000 BB	0.12567							
0.000000 00	3.393865 01	2.232161-01						
0.64000 BB	0.12567							
0.000000 00	2.826964 01	1.891125-01						
0.64000 BB	0.12567							
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0.64000 BB	0.12567							
0.000000 00	8.382412 00	4.803029-02						
0.64000 BB	0.12567							
0.000000 00	1.229463 01	6.891500-02						
								OCT 17 58
-3.930100-01	1.130000 02	9.744221-01	1.000000-04	1.326203-06	0.000000 00	2.253960 01	2.196309 01	OCT 17 58
1.680000 00	7.902720-01	0.010144 00	1.035429-02	1.972124-02	8.048766-02	4.009705-02	7.833672-02	
3.360000 00	5.531904 00	0.010144 00	1.027849-02	1.957974-02	7.991144-02	3.980591-02	7.776567-02	
5.050000 00	1.514242 01	0.010144 00	1.012701-02	1.929382-02	7.874905-02	3.922281-02	7.662373-02	
6.730000 00	2.933893 01	0.010144 00	9.902138-03	1.886761-02	7.701748-02	3.835644-02	7.492844-02	
8.410000 00	4.833368 01	0.010144 00	9.607294-03	1.830782-02	7.474451-02	3.722040-02	7.270638-02	

1.008999 01	7.207006 01	0.010144 00	9.245607-03	1.762080-02	7.195672-02	3.582759-02	6.998250-02
1.177000 01	1.005480 02	0.010144 00	8.821490-03	1.681544-02	6.869109-02	3.419602-02	6.679173-02
1.346000 01	1.346729 02	0.010144 00	8.338480-03	1.589913-02	6.497881-02	3.234079-02	6.316309-02
1.514000 01	1.719691 02	0.010144 00	7.803921-03	1.488645-02	6.088026-02	3.029152-02	5.915402-02
1.682000 01	2.147002 02	0.010144 00	7.225799-03	1.379360-02	5.646232-02	2.808102-02	5.482783-02
1.850000 01	2.621730 02	0.010144 00	6.609832-03	1.263216-02	5.177316-02	2.573271-02	5.022955-02
2.018000 01	3.143874 02	0.010144 00	5.963197-03	1.141753-02	4.687600-02	2.327719-02	4.541727-02
2.187000 01	3.737339 02	0.010144 00	5.292148-03	1.016221-02	4.182196-02	2.073929-02	4.043815-02
2.355000 01	4.334225 02	0.010144 00	4.605851-03	8.887271-03	3.669538-02	1.815869-02	3.536584-02
2.523000 01	4.998900 02	0.010144 00	3.916274-03	7.614381-03	3.158203-02	1.557860-02	3.028276-02
2.691000 01	5.710992 02	0.010144 00	3.226450-03	6.359083-03	2.653892-02	1.301746-02	2.521602-02
2.859000 01	6.470500 02	0.010144 00	2.550731-03	5.140547-03	2.163695-02	1.051950-02	2.025025-02
3.028000 01	7.323254 02	0.010144 00	1.882957-03	3.977224-03	1.692896-02	8.058492-03	1.552310-02
3.196000 01	8.136992 02	0.010144 00	1.255208-03	2.898679-03	1.254115-02	5.754160-03	1.065847-02
3.364000 01	9.039030 02	0.010144 00	6.236933-04	1.877099-03	8.112829-03	3.271927-03	5.731566-03
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1.227992-01	1.257782-01	1.091199-01	8.737502-02	7.556560-02	4.013739-02	3.373401-02	3.002575-02
1.219027-01	1.248597-01	1.083231-01	8.673693-02	7.501361-02	3.984408-02	3.348737-02	2.980608-02
1.201108-01	1.230243-01	1.067310-01	8.546199-02	7.391066-02	3.925800-02	3.299454-02	2.936713-02
1.174514-01	1.203006-01	1.043683-01	8.356989-02	7.227368-02	3.838812-02	3.226303-02	2.871555-02
1.139664-01	1.167314-01	1.012718-01	8.108988-02	7.012780-02	3.724773-02	3.130398-02	2.786124-02
1.096947-01	1.123563-01	9.747570-02	7.804893-02	6.749611-02	3.584904-02	3.012760-02	2.681325-02
1.046907-01	1.072304-01	9.302730-02	7.448478-02	6.441098-02	3.420918-02	2.874824-02	2.558432-02
9.899926-02	1.013992-01	8.796527-02	7.042787-02	6.089844-02	3.234188-02	2.717739-02	2.418466-02
9.270968-02	9.495328-02	8.236766-02	6.594028-02	5.701192-02	3.027549-02	2.543885-02	2.263541-02
8.591988-02	8.799147-02	7.631923-02	6.108939-02	5.280944-02	2.804078-02	2.355848-02	2.095965-02
7.869899-02	8.058350-02	6.987969-02	5.592267-02	4.833197-02	2.565953-02	2.155461-02	1.917372-02
7.113533-02	7.281721-02	6.312402-02	5.049976-02	4.363110-02	2.315915-02	1.945038-02	1.729935-02
6.330034-02	6.476493-02	5.611465-02	4.487088-02	3.875065-02	2.056318-02	1.726568-02	1.535136-02
5.530433-02	5.653549-02	4.894505-02	3.911108-02	3.375617-02	1.790653-02	1.503014-02	1.335944-02
4.727476-02	4.826197-02	4.173278-02	3.331623-02	2.873202-02	1.523465-02	1.278220-02	1.135696-02
3.924681-02	3.997480-02	3.450451-02	2.750909-02	2.369936-02	1.255884-02	1.053180-02	9.353387-03
3.135825-02	3.182713-02	2.739969-02	2.180507-02	1.876036-02	9.934347-03	8.325587-03	7.390256-03
2.351715-02	2.372475-02	2.034263-02	1.614794-02	1.386935-02	7.336868-03	6.143886-03	5.451104-03
1.608979-02	1.605586-02	1.367487-02	1.081311-02	9.265075-03	4.892963-03	4.092814-03	3.630516-03
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2.396494-02	2.022905-02	1.423152-02	9.386957-03	5.514550-03	8.038857-03		
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2.291850-02	1.934501-02	1.360917-02	8.976208-03	5.273121-03	7.686806-03		
2.223612-02	1.876850-02	1.320330-02	8.708327-03	5.115663-03	7.457168-03		
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1.672233-02	1.410935-02	9.922835-03	6.542977-03	3.842813-03	5.600096-03		
1.529535-02	1.290348-02	9.073801-03	5.982561-03	3.513395-03	5.119349-03		
1.379692-02	1.163733-02	8.182332-03	5.394165-03	3.167534-03	4.614588-03		
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1.065026-02	8.979081-03	6.311085-03	4.159282-03	2.441758-03	3.555365-03		
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2.886873-03	2.429988-03	1.703072-03	1.118964-03	6.547209-04	9.478374-04		
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JUL 23 58

-4.333000 01	4.300000 01	9.824316-01	1.000000-05	3.368968-06	5.998578 02	6.106001 02	2.029051 03

JUL 23 58

3.000000 00	4.500000 00	0.006414 00	3.827196-02	1.581944-01	6.231981-01	3.030725-01	5.363906-01
7.000000 00	5.266666 01	0.006414 00	3.794903-02	1.568728-01	6.179844-01	3.005218-01	5.318643-01
1.000000 01	1.095000 02	0.006414 00	3.735187-02	1.544068-01	6.082745-01	2.957917-01	5.234849-01
1.300000 01	1.995000 02	0.006414 00	3.657244-02	1.511845-01	5.955913-01	2.896170-01	5.125498-01
1.600000 01	3.165000 02	0.006414 00	3.557280-02	1.470505-01	5.793268-01	2.817005-01	4.985315-01
2.000000 01	6.506667 02	0.006414 00	3.412355-02	1.410567-01	5.557595-01	2.702320-01	4.782249-01

2.300000 01	6.945000 02	0.006414 00	3.244664-02	1.341223-01	5.285089-01	2.569725-01	4.547475-01
2.600000 01	9.015000 02	0.006414 00	3.079918-02	1.273184-01	5.017889-01	2.439675-01	4.317161-01
3.000000 01	1.570666 03	0.006414 00	2.866323-02	1.185092-01	4.672243-01	2.271397-01	4.019074-01
3.300000 01	1.489500 03	0.006414 00	2.636527-02	1.090471-01	4.301294-01	2.090755-01	3.698994-01
3.600000 01	1.786500 03	0.006414 00	2.425834-02	1.003905-01	3.962298-01	1.925587-01	3.406200-01
3.900000 01	2.110500 03	0.006414 00	2.205754-02	9.137936-02	3.609772-01	1.753705-01	3.101294-01
4.300000 01	3.364666 03	0.006414 00	1.940098-02	8.054148-02	3.186343-01	1.547063-01	2.734385-01
4.600000 01	2.971500 03	0.006414 00	1.669101-02	6.954868-02	2.757304-01	1.337423-01	2.361636-01
4.900000 01	3.385500 03	0.006414 00	1.435010-02	6.010325-02	2.389037-01	1.157197-01	2.040662-01
5.300000 01	5.204666 03	0.006414 00	1.162613-02	4.926878-02	1.966563-01	9.495843-02	1.669427-01
5.600000 01	4.456500 03	0.006414 00	8.957607-03	3.873110-02	1.555294-01	7.470277-02	1.306240-01
5.900000 01	4.960500 03	0.006414 00	6.709136-03	3.013758-02	1.217752-01	5.782335-02	1.000996-01
6.200000 01	5.491500 03	0.006414 00	4.599697-03	2.219330-02	9.054350-02	4.217919-02	7.157619-02
6.561000 01	7.350255 03	0.006414 00	2.266261-03	1.374978-02	5.564423-02	2.410909-02	3.881983-02

JUL 23 58

7.903224-01	8.118175-01	7.057648-01	7.400455-01	6.346810-01	2.633294-01	2.092849-01	1.854511-01
7.836469-01	8.049616-01	6.998083-01	7.338037-01	6.293298-01	2.611091-01	2.075202-01	1.838871-01
7.712983-01	7.922846-01	6.887955-01	7.222629-01	6.194353-01	2.570038-01	2.042571-01	1.809949-01
7.551857-01	7.757442-01	6.744261-01	7.072035-01	6.065229-01	2.516461-01	1.999984-01	1.772202-01
7.345312-01	7.545411-01	6.560051-01	6.878958-01	5.899658-01	2.447756-01	1.945370-01	1.723791-01
7.046128-01	7.238266-01	6.293178-01	6.599188-01	5.659695-01	2.348173-01	1.866203-01	1.653609-01
6.700234-01	6.883160-01	5.984597-01	6.275630-01	5.382114-01	2.232969-01	1.774608-01	1.572402-01
6.360873-01	6.534701-01	5.681729-01	5.957970-01	5.109511-01	2.119815-01	1.684634-01	1.492623-01
5.921592-01	6.083561-01	5.289501-01	5.546416-01	4.756198-01	1.973138-01	1.567987-01	1.389179-01
5.449800-01	5.598890-01	4.867976-01	5.103942-01	4.376204-01	1.815361-01	1.442497-01	1.277882-01
5.018101-01	5.155260-01	4.481961-01	4.698501-01	4.027860-01	1.670703-01	1.327427-01	1.175815-01
4.568263-01	4.692657-01	4.079188-01	4.275229-01	3.664052-01	1.519599-01	1.207218-01	1.069186-01
4.026559-01	4.135185-01	3.593411-01	3.764328-01	3.224761-01	1.337133-01	1.062053-01	9.404165-02
3.475483-01	3.567286-01	3.098076-01	3.243095-01	2.776496-01	1.150927-01	9.139167-02	8.090295-02
3.000337-01	3.077070-01	2.670009-01	2.792344-01	2.388861-01	9.899367-02	7.858574-02	6.954636-02
2.448772-01	2.506259-01	2.170916-01	2.266922-01	1.937295-01	8.024342-02	6.367536-02	5.633063-02
1.908065-01	1.945766-01	1.680449-01	1.750871-01	1.494255-01	6.185674-02	4.905896-02	4.338042-02
1.451002-01	1.470343-01	1.264578-01	1.314521-01	1.120424-01	4.635050-02	3.673914-02	3.247639-02
1.021450-01	1.021537-01	8.721496-02	9.043246-02	7.698021-02	3.181036-02	2.518912-02	2.226597-02
5.319373-02	5.142606-02	4.333551-02	4.494221-02	3.820325-02	1.573056-02	1.243374-02	1.101732-02

JUL 23 58

1.685788-01	1.424930-01	1.040221-01	6.765472-02	3.193365-02	2.613936-02
1.671566-01	1.412904-01	1.031440-01	6.708345-02	3.166398-02	2.591870-02
1.645267-01	1.390666-01	1.015202-01	6.602716-02	3.116537-02	2.551070-02
1.610940-01	1.361640-01	9.940068-02	6.464829-02	3.051447-02	2.497806-02
1.566914-01	1.324409-01	9.668192-02	6.287958-02	2.967954-02	2.429477-02
1.509082-01	1.275426-01	9.273955-02	6.031470-02	2.846869-02	2.330374-02
1.429718-01	1.207953-01	8.817703-02	5.734624-02	2.706732-02	2.215667-02
1.356644-01	1.146568-01	8.369343-02	5.442895-02	2.568998-02	2.102914-02
1.262533-01	1.066959-01	7.787860-02	5.064534-02	2.390365-02	1.956664-02
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1.068397-01	9.027287-02	6.588221-02	4.283922-02	2.021805-02	1.654878-02
9.713743-02	8.206499-02	5.988637-02	3.893764-02	1.837574-02	1.504006-02
8.542115-02	7.215455-02	5.264801-02	3.422797-02	1.615231-02	1.321916-02
7.346847-02	6.204535-02	4.526440-02	2.942389-02	1.388387-02	1.136123-02
6.313978-02	5.331242-02	3.888828-02	2.527601-02	1.192598-02	9.757444-03
5.112619-02	4.315822-02	3.147383-02	2.045232-02	9.647958-03	7.890682-03
3.936048-02	3.321817-02	2.421793-02	1.573156-02	7.418859-03	6.062695-03
2.946747-02	2.485920-02	1.811335-02	1.175830-02	5.540900-03	4.521336-03
2.020397-02	1.704142-02	1.239684-02	8.032600-03	3.776618-03	3.069238-03
1.000775-02	8.426337-03	6.084123-03	3.920544-03	1.822166-03	1.467313-03

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3.000000 00	4.500000 00	0.006414 00	3.257306-02	1.357222-01	5.377387-01	2.612955-01	4.621471-01
7.000000 00	5.266666 01	0.006414 00	3.230655-02	1.346252-01	5.333915-01	2.591700-01	4.583775-01
1.000000 01	1.095000 02	0.006414 00	3.181382-02	1.325792-01	5.252989-01	2.552299-01	4.514002-01
1.300000 01	1.995000 02	0.006414 00	3.117078-02	1.299067-01	5.147309-01	2.500869-01	4.422953-01
1.700000 01	4.526666 02	0.006414 00	3.017517-02	1.257644-01	4.983592-01	2.421239-01	4.282017-01
2.000000 01	5.145000 02	0.006414 00	2.897937-02	1.207875-01	4.786967-01	2.325625-01	4.112810-01

2.400000 01	9.706667 02	0.006414 00	2.753667-02	1.147857-01	4.549976-01	2.210375-01	3.908845-01
2.700000 01	9.765000 02	0.006414 00	2.592554-02	1.080866-01	4.285590-01	2.081800-01	3.681282-01
3.000000 01	1.219499 03	0.006414 00	2.439315-02	1.017221-01	4.034569-01	1.959687-01	3.465114-01
3.400000 01	2.050666 03	0.006414 00	2.245647-02	9.369274-02	3.718145-01	1.805706-01	3.192446-01
3.700000 01	1.891500 03	0.006414 00	2.041223-02	8.522904-02	3.384879-01	1.643481-01	2.905095-01
4.000000 01	2.224500 03	0.006414 00	1.857199-02	7.763494-02	3.086148-01	1.497966-01	2.647172-01
4.400000 01	3.530666 03	0.006414 00	1.635793-02	6.852699-02	2.728274-01	1.323496-01	2.337670-01
4.700000 01	3.106500 03	0.006414 00	1.410444-02	5.930570-02	2.366269-01	1.146809-01	2.023827-01
5.000000 01	3.529500 03	0.006414 00	1.216235-02	5.139415-02	2.055964-01	9.951543-02	1.754057-01
5.400000 01	5.410666 03	0.006414 00	9.305255-03	4.232434-02	1.700181-01	8.205816-02	1.442316-01
5.700000 01	4.621500 03	0.006414 00	7.696917-03	3.350257-02	1.353872-01	6.503923-02	1.137659-01
6.100000 01	6.964667 03	0.006414 00	5.544790-03	2.519286-02	1.025379-01	4.864155-02	8.413781-02
6.400000 01	5.860500 03	0.006414 00	3.512862-03	1.747483-02	7.189648-02	3.328191-02	5.618293-02
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6.668565-01	6.900828-01	6.066601-01	6.509007-01	5.855709-01	2.640628-01	2.312291-01	2.143704-01
6.534026-01	6.761638-01	5.944277-01	6.377785-01	5.737644-01	2.587376-01	2.265649-01	2.100446-01
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6.075826-01	6.287637-01	5.527704-01	5.930859-01	5.335458-01	2.405963-01	2.106737-01	1.953050-01
5.774507-01	5.975930-01	5.253737-01	5.636865-01	5.070824-01	2.286579-01	2.002147-01	1.856028-01
5.438320-01	5.628132-01	4.948016-01	5.308735-01	4.775404-01	2.153293-01	1.885368-01	1.747689-01
5.118941-01	5.297699-01	4.657510-01	4.996843-01	4.494522-01	2.026551-01	1.774310-01	1.644646-01
4.715998-01	4.880693-01	4.290776-01	4.602957-01	4.139672-01	1.866407-01	1.633965-01	1.514419-01
4.291282-01	4.441074-01	3.904029-01	4.187390-01	3.765167-01	1.697371-01	1.485813-01	1.376938-01
3.909835-01	4.045978-01	3.556246-01	3.813487-01	3.428075-01	1.545199-01	1.352429-01	1.253156-01
3.451818-01	3.571287-01	3.138088-01	3.363591-01	3.022332-01	1.362022-01	1.191865-01	1.104153-01
2.986769-01	3.088677-01	2.712572-01	2.905544-01	2.609163-01	1.175487-01	1.028365-01	9.524456-02
2.586566-01	2.672934-01	2.345612-01	2.510252-01	2.252607-01	1.014535-01	8.873123-02	8.215899-02
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1.667961-01	1.714990-01	1.498556-01	1.598088-01	1.430728-01	6.437403-02	5.625425-02	5.205045-02
1.223161-01	1.248933-01	1.086384-01	1.155690-01	1.033279-01	4.646243-02	4.058096-02	3.753728-02
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JUL 29 58

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1.972092-01	1.782706-01	1.487802-01	1.161116-01	7.401691-02	1.193895-01	
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1.742466-01	1.574994-01	1.314345-01	1.025669-01	6.537881-02	1.054430-01	
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1.543842-01	1.395302-01	1.164274-01	9.084768-02	5.790464-02	9.337471-02	
1.421462-01	1.284580-01	1.071800-01	8.362614-02	5.329890-02	8.593787-02	
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2.235224-02	2.016395-02	1.676793-02	1.304004-02	8.279165-03	1.323720-02	
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AUG 01 58

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AUG 01 58

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7.008000 00 5.019252 01 0.006414 00 2.777417-02 1.171823-01 4.683172-01 2.272766-01 4.020150-01
1.051200 01 1.362368 02 0.006414 00 2.735990-02 1.154340-01 4.613249-01 2.238779-01 3.959988-01
1.401600 01 2.653033 02 0.006414 00 2.674470-02 1.128331-01 4.509295-01 2.188295-01 3.870661-01

1.752000 01	4.373920 02	0.006414 00	2.593612-02	1.094132-01	4.372672-01	2.121968-01	3.753319-01
2.102400 01	6.525028 02	0.006414 00	2.494399-02	1.052182-01	4.205175-01	2.040658-01	3.609476-01
2.452800 01	9.106358 02	0.006414 00	2.378056-02	1.003020-01	4.009010-01	1.945426-01	3.440993-01
2.803200 01	1.211790 03	0.006414 00	2.245996-02	9.472804-02	3.786767-01	1.837517-01	3.250055-01
3.153600 01	1.555968 03	0.006414 00	2.099872-02	8.856852-02	3.541395-01	1.718348-01	3.039156-01
3.504000 01	1.943167 03	0.006414 00	1.941442-02	8.190400-02	3.276174-01	1.589495-01	2.811048-01
3.854400 01	2.373389 03	0.006414 00	1.772747-02	7.482212-02	2.994671-01	1.452673-01	2.568745-01
4.204800 01	2.846633 03	0.006414 00	1.595750-02	6.741769-02	2.700716-01	1.309706-01	2.315398-01
4.555200 01	3.362899 03	0.006414 00	1.412871-02	5.979072-02	2.398343-01	1.162537-01	2.054422-01
4.905600 01	3.922187 03	0.006414 00	1.226014-02	5.204780-02	2.091768-01	1.013116-01	1.789061-01
5.256000 01	4.524497 03	0.006414 00	1.038137-02	4.429852-02	1.785311-01	8.635735-02	1.523112-01
5.606400 01	5.169830 03	0.006414 00	8.504797-03	3.666015-02	1.483321-01	7.156415-02	1.259070-01
5.956800 01	5.858184 03	0.006414 00	6.672463-03	2.925393-02	1.190399-01	5.719287-02	1.001829-01
6.307200 01	6.589561 03	0.006414 00	4.873267-03	2.219745-02	9.096383-02	4.322091-02	7.497234-02
6.657600 01	7.363960 03	0.006414 00	3.185279-03	1.570626-02	6.505069-02	3.026255-02	5.137490-02
7.008000 01	8.181381 03	0.006414 00	1.508551-03	9.496648-03	3.903665-02	1.683157-02	2.702456-02
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5.959645-01	6.207579-01	5.500300-01	5.980246-01	5.512899-01	2.589522-01	2.378190-01	2.253654-01
5.870447-01	6.114733-01	5.418108-01	5.890965-01	5.430657-01	2.550897-01	2.342719-01	2.220041-01
5.738035-01	5.976918-01	5.296108-01	5.758438-01	5.308567-01	2.493555-01	2.290059-01	2.170135-01
5.564116-01	5.795911-01	5.135868-01	5.584354-01	5.148176-01	2.418219-01	2.220870-01	2.104560-01
5.350924-01	5.574024-01	4.939428-01	5.370918-01	4.951494-01	2.325831-01	2.136012-01	2.024129-01
5.101219-01	5.314135-01	4.709323-01	5.120859-01	4.721013-01	2.217556-01	2.036552-01	1.929848-01
4.818221-01	5.019562-01	4.448471-01	4.837321-01	4.459603-01	2.094734-01	1.923716-01	1.822874-01
4.505626-01	4.694160-01	4.160263-01	4.523945-01	4.170583-01	1.958921-01	1.798926-01	1.704553-01
4.167456-01	4.342040-01	3.848294-01	4.184596-01	3.857483-01	1.811765-01	1.663694-01	1.576313-01
3.808182-01	3.967867-01	3.516657-01	3.823654-01	3.524304-01	1.655143-01	1.519741-01	1.439787-01
3.432324-01	3.576162-01	3.169270-01	3.445338-01	3.174914-01	1.490870-01	1.368735-01	1.296559-01
3.044964-01	3.172267-01	2.810809-01	3.054646-01	2.813919-01	1.321116-01	1.212677-01	1.148533-01
2.650522-01	2.760373-01	2.444858-01	2.655505-01	2.444982-01	1.147612-01	1.053172-01	9.972495-02
2.254760-01	2.346653-01	2.076851-01	2.253786-01	2.073611-01	9.729775-02	8.926472-02	8.450223-02
1.860498-01	1.933304-01	1.708653-01	1.851793-01	1.702116-01	7.983282-02	7.321587-02	6.928873-02
1.475481-01	1.528804-01	1.347871-01	1.457974-01	1.338522-01	6.274844-02	5.752404-02	5.442043-02
1.096053-01	1.128809-01	9.911126-02	1.069449-01	9.805183-02	4.594006-02	4.209636-02	3.981288-02
7.386265-02	7.502010-02	6.535944-02	7.033783-02	6.440821-02	3.015714-02	2.761935-02	2.611651-02
3.721615-02	3.647001-02	3.133426-02	3.373147-02	3.086059-02	1.443173-02	1.320830-02	1.249674-02
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2.165848-01	2.022820-01	1.805731-01	1.549505-01	1.172833-01	3.363440-01		
2.149725-01	2.007759-01	1.792286-01	1.537966-01	1.164098-01	3.338420-01		
2.117658-01	1.977805-01	1.765543-01	1.515014-01	1.146724-01	3.288651-01		
2.070047-01	1.933328-01	1.725832-01	1.480932-01	1.120923-01	3.214732-01		
2.007483-01	1.874880-01	1.673646-01	1.436140-01	1.087013-01	3.117560-01		
1.930738-01	1.803178-01	1.609621-01	1.381184-01	1.045406-01	2.998298-01		
1.840769-01	1.719114-01	1.534552-01	1.316744-01	9.966171-02	2.858408-01		
1.738678-01	1.623715-01	1.449352-01	1.243603-01	9.412369-02	2.699568-01		
1.625744-01	1.518174-01	1.355090-01	1.162677-01	8.799603-02	2.523763-01		
1.503331-01	1.403766-01	1.252899-01	1.074941-01	8.135232-02	2.333094-01		
1.372996-01	1.281948-01	1.144088-01	9.815200-02	7.427822-02	2.130075-01		
1.236258-01	1.154144-01	1.029926-01	8.835045-02	6.685604-02	1.916915-01		
1.094941-01	1.022067-01	9.119608-02	7.822297-02	5.918772-02	1.696710-01		
9.505304-02	8.871160-02	7.914309-02	6.787618-02	5.135329-02	1.471700-01		
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5.183266-02	4.834517-02	4.310545-02	3.694690-02	2.793738-02	7.990789-02		
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2.486709-02	2.318411-02	2.063841-02	1.766305-02	1.333185-02	3.795787-02		
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10 MIL

0.64000 BB	0.05360						
0.000000 00	2.981001 02	1.204282 01					
0.64000 BB	0.05360						
0.000000 00	1.351198 03	4.537034 01					
0.64000 BB	0.05360						
0.000000 00	1.024852 03	1.726872 01					
0.64000 BB	0.05360						
0.000000 00	2.371924 03	2.560364 01					
0.64000 BB	0.05360						
0.000000 00	4.297194 03	3.229309 01					
0.64000 BB	0.05360						
0.000000 00	5.193116 03	2.927743 01					
0.64000 BB	0.05360						
0.000000 00	4.698938 03	2.475643 01					
0.64000 BB	0.05360						
0.000000 00	4.894223 03	2.643997 01					
0.64000 BB	0.05360						
0.000000 00	4.350104 03	2.326375 01					
0.64000 BB	0.05360						
0.000000 00	1.948608 03	1.015436 01					
0.64000 BB	0.05360						
0.000000 00	1.735079 03	9.088272 00					
0.64000 BB	0.05360						
0.000000 00	1.596072 03	8.431396 00					
0.64000 BB	0.05360						
0.000000 00	1.488112 03	7.874341 00					
0.64000 BB	0.05360						
0.000000 00	1.345279 03	7.023838 00					
0.64000 BB	0.05360						
0.000000 00	1.122959 03	5.443510 00					
0.64000 BB	0.05360						
0.000000 00	8.661662 02	4.106988 00					
0.64000 BB	0.05360						
0.000000 00	6.236912 02	2.869576 00					
0.64000 BB	0.05360						
0.000000 00	1.402269 03	6.139464 00					

JUL 23 56

3.140000-01	2.430000 02	1.009633 00	1.000000-05	3.121086-06	6.536290 02	6.474060 02	2.190207 03

JUL 23 58

3.500000 00	7.145833 00	0.006414 00	3.248469-02	1.366221-01	5.346713-01	2.687671-01	4.874826-01
7.000000 00	5.002083 01	0.006414 00	3.224716-02	1.356295-01	5.307811-01	2.668036-01	4.839147-01
1.050000 01	1.357708 02	0.006414 00	3.177469-02	1.336447-01	5.230115-01	2.628916-01	4.768138-01
1.400000 01	2.643958 02	0.006414 00	3.107312-02	1.306922-01	5.114603-01	2.570809-01	4.662703-01
1.750000 01	4.358958 02	0.006414 00	3.015114-02	1.268099-01	4.962777-01	2.494457-01	4.524191-01
2.100000 01	6.502708 02	0.006414 00	2.902001-02	1.220475-01	4.776614-01	2.400847-01	4.354377-01

2.450000 01	9.075208 02	0.006414 00	2.769375-02	1.164658-01	4.558535-01	2.291186-01	4.155442-01
2.800000 01	1.207645 03	0.006414 00	2.618847-02	1.101363-01	4.311384-01	2.166891-01	3.929938-01
3.150000 01	1.550645 03	0.006414 00	2.452294-02	1.031399-01	4.038386-01	2.029572-01	3.680771-01
3.500000 01	1.936520 03	0.006414 00	2.271709-02	9.556680-02	3.743121-01	1.881012-01	3.411140-01
3.850000 01	2.365270 03	0.006414 00	2.079385-02	8.751455-02	3.429475-01	1.723149-01	3.124545-01
4.200000 01	2.836895 03	0.006414 00	1.877529-02	7.908852-02	3.101612-01	1.558039-01	2.824630-01
4.550000 01	3.351396 03	0.006414 00	1.668843-02	7.039931-02	2.763906-01	1.387871-01	2.515355-01
4.900000 01	3.908770 03	0.006414 00	1.455434-02	6.156452-02	2.420925-01	1.214832-01	2.200442-01
5.250000 01	4.509020 03	0.006414 00	1.240625-02	5.270438-02	2.077355-01	1.041338-01	1.884354-01
5.600000 01	5.152146 03	0.006414 00	1.025670-02	4.394704-02	1.737870-01	8.692926-02	1.569836-01
5.950000 01	5.838146 03	0.006414 00	8.154869-03	3.542630-02	1.407635-01	7.018325-02	1.263022-01
6.300000 01	6.567021 03	0.006414 00	6.082639-03	2.725823-02	1.089311-01	5.382904-02	9.611399-02
6.650000 01	7.338771 03	0.006414 00	4.140544-03	1.973632-02	7.964778-02	3.874045-02	6.798869-02
7.080000 01	1.013587 04	0.006414 00	1.996451-03	1.175395-02	4.710691-02	2.144747-02	3.581020-02
							JUL 23 58
7.769717-01	7.560839-01	6.676324-01	7.119810-01	6.320332-01	2.794566-01	2.502564-01	2.317610-01
7.216478-01	7.505490-01	6.627485-01	7.067763-01	6.274152-01	2.774148-01	2.484279-01	2.300674-01
7.110575-01	7.395413-01	6.530357-01	6.964254-01	6.182307-01	2.733540-01	2.447912-01	2.266990-01
6.953360-01	7.232014-01	6.386180-01	6.810598-01	6.045955-01	2.673251-01	2.393918-01	2.216977-01
6.746846-01	7.017388-01	6.196798-01	6.608747-01	5.866815-01	2.594040-01	2.322973-01	2.151259-01
6.493672-01	6.754261-01	5.964607-01	6.361239-01	5.647122-01	2.496889-01	2.235955-01	2.070646-01
6.197088-01	6.446016-01	5.692577-01	6.071213-01	5.389638-01	2.383017-01	2.133949-01	1.976140-01
5.860878-01	6.096548-01	5.384125-01	5.742282-01	5.097539-01	2.253822-01	2.018205-01	1.868895-01
5.489378-01	5.710370-01	5.043204-01	5.378610-01	4.774492-01	2.110920-01	1.890165-01	1.750243-01
5.087291-01	5.292285-01	4.674005-01	4.984626-01	4.424394-01	1.956028-01	1.751364-01	1.621607-01
4.659844-01	4.847737-01	4.281285-01	4.565326-01	4.051653-01	1.791094-01	1.603545-01	1.484599-01
4.212294-01	4.381983-01	3.869597-01	4.125534-01	3.660532-01	1.617999-01	1.448397-01	1.340791-01
3.750588-01	3.901263-01	3.444378-01	3.670961-01	3.256112-01	1.439004-01	1.287949-01	1.192067-01
3.279810-01	3.410401-01	3.009773-01	3.206079-01	2.842409-01	1.255885-01	1.123812-01	1.039939-01
2.806822-01	2.916738-01	2.572204-01	2.737703-01	2.425580-01	1.071404-01	9.584695-02	8.867171-02
2.334638-01	2.422578-01	2.133683-01	2.268296-01	2.007984-01	8.866161-02	7.929056-02	7.333443-02
1.873037-01	1.938543-01	1.703649-01	1.808090-01	1.598936-01	7.056959-02	6.308648-02	5.832976-02
1.416474-01	1.458398-01	1.277204-01	1.352696-01	1.194850-01	5.270723-02	4.709877-02	4.353529-02
9.878917-02	1.005342-01	8.749597-02	9.246430-02	8.158500-02	3.596111-02	3.211902-02	2.968500-02
5.002878-02	4.937093-02	4.253712-02	4.497693-02	3.964546-02	1.743653-02	1.557332-02	1.440267-02
							JUL 23 58
2.165646-01	1.944675-01	1.556035-01	1.188804-01	8.430450-02	1.852519-01		
2.149817-01	1.930457-01	1.544656-01	1.180108-01	8.368774-02	1.838970-01		
2.118334-01	1.902178-01	1.522023-01	1.162813-01	8.246095-02	1.812020-01		
2.071587-01	1.860187-01	1.488415-01	1.137130-01	8.063921-02	1.771997-01		
2.010157-01	1.805004-01	1.444248-01	1.103377-01	7.824493-02	1.719388-01		
1.934799-01	1.737305-01	1.390060-01	1.061964-01	7.530720-02	1.654827-01		
1.846446-01	1.657927-01	1.326521-01	1.013402-01	7.186226-02	1.579108-01		
1.746175-01	1.567835-01	1.254400-01	9.582792-02	6.795172-02	1.493138-01		
1.635230-01	1.468146-01	1.174595-01	8.972804-02	6.362424-02	1.397987-01		
1.514939-01	1.360053-01	1.088056-01	8.311330-02	5.893138-02	1.294784-01		
1.386812-01	1.244918-01	9.958807-02	7.606773-02	5.393294-02	1.184848-01		
1.252323-01	1.124065-01	8.991245-02	6.867213-02	4.868615-02	1.069435-01		
1.113242-01	9.990967-02	7.990864-02	6.102610-02	4.326204-02	9.501171-02		
9.709952-02	8.712968-02	6.967798-02	5.320720-02	3.771535-02	8.280878-02		
8.277553-02	7.426357-02	5.938148-02	4.533873-02	3.213403-02	7.052946-02		
6.844232-02	6.139248-02	4.908033-02	3.746716-02	2.655023-02	5.824304-02		
5.442608-02	4.881082-02	3.901387-02	2.977453-02	2.109327-02	4.623475-02		
4.061403-02	3.641665-02	2.909491-02	2.219407-02	1.571525-02	3.440220-02		
2.769178-02	2.482330-02	1.980799-02	1.509105-02	1.067399-02	2.330863-02		
1.343918-02	1.203486-02	9.545962-03	7.251672-03	5.113918-03	1.110649-02		

LA ASS. 8 C/Oy =384 Be REFL.

1.800000-01	5.000000 00	1.023300 00	1.000000-04	-7.644296-06	0.000000 00	1.153254 00	1.195242 00

2.704000 00	1.827904 00	0.010144 00	2.812170-03	1.202944-02	4.668785-02	2.353212-02	4.282504-02
5.408000 00	5.483712 00	0.010144 00	2.799858-03	1.198312-02	4.649731-02	2.343404-02	4.265053-02
8.112000 00	9.139520 00	0.010144 00	2.776056-03	1.188581-02	4.610391-02	2.323998-02	4.230903-02
1.081600 01	1.279532 01	0.010144 00	2.740864-03	1.174324-02	4.552561-02	2.295565-02	4.180647-02
1.352000 01	1.645113 01	0.010144 00	2.695525-03	1.155825-02	4.476998-02	2.258502-02	4.115254-02
1.622400 01	2.010694 01	0.010144 00	2.640015-03	1.133405-02	4.384398-02	2.213266-02	4.035493-02
1.892800 01	2.376275 01	0.010144 00	2.577591-03	1.107436-02	4.275469-02	2.160387-02	3.942309-02
2.163200 01	2.741856 01	0.010144 00	2.508137-03	1.078440-02	4.151084-02	2.100618-02	3.837000-02
2.433600 01	3.107436 01	0.010144 00	2.440627-03	1.046978-02	4.011964-02	2.034627-02	3.720463-02
2.704000 01	3.473017 01	0.010144 00	2.375211-03	1.013941-02	3.859078-02	1.963615-02	3.594252-02
2.974400 01	3.838599 01	0.010144 00	2.342068-03	9.800529-03	3.692316-02	1.887757-02	3.457304-02
3.244800 01	4.204179 01	0.010144 00	2.348961-03	9.473981-03	3.512846-02	1.809212-02	3.310744-02
3.515200 01	4.569759 01	0.010144 00	2.531091-03	9.147699-03	3.312691-02	1.721746-02	3.140170-02
3.785600 01	4.935340 01	0.010144 00	2.957692-03	8.896710-03	3.093355-02	1.631626-02	2.945736-02
4.056000 01	5.300920 01	0.010144 00	4.550990-03	7.041387-03	2.565110-02	1.420374-02	2.572103-02
4.317600 01	5.476332 01	0.010406 00	0.000000 00	3.963346-03	1.716852-02	1.008327-02	1.868177-02
4.579200 01	5.818507 01	0.010406 00	0.000000 00	2.093625-03	1.052234-02	6.299684-03	1.190014-02
4.840800 01	6.160680 01	0.010406 00	0.000000 00	1.233443-03	6.737504-03	4.011809-03	7.596307-03
5.102400 01	6.502851 01	0.010406 00	0.000000 00	7.724062-04	4.326567-03	2.515256-03	4.651144-03
5.364000 01	6.845026 01	0.010406 00	0.000000 00	5.010872-04	2.557035-03	1.332978-03	2.479909-03

6.390608-02	6.589137-02	5.719247-02	5.849542-02	4.746222-02	1.791886-02	1.277469-02	1.072615-02
6.364890-02	6.562430-02	5.695343-02	5.823657-02	4.724086-02	1.783356-02	1.271316-02	1.067471-02
6.314739-02	6.510217-02	5.648493-02	5.772835-02	4.680635-02	1.766634-02	1.259266-02	1.057433-02
6.240948-02	6.432842-02	5.578742-02	5.696995-02	4.615804-02	1.741695-02	1.241350-02	1.042609-02
6.144140-02	6.330406-02	5.485875-02	5.595685-02	4.529300-02	1.708515-02	1.217618-02	1.023165-02
6.025029-02	6.202856-02	5.369447-02	5.468262-02	4.420684-02	1.666961-02	1.188131-02	9.983712-03
5.884240-02	6.049865-02	5.228855-02	5.313839-02	4.289591-02	1.617176-02	1.153186-02	9.717595-03
5.722354-02	5.870665-02	5.063093-02	5.131390-02	4.135551-02	1.559109-02	1.113177-02	9.411410-03
5.539153-02	5.663682-02	4.870993-02	4.919487-02	3.958517-02	1.493614-02	1.069228-02	9.089717-03
5.333977-02	5.426388-02	4.650767-02	4.676797-02	3.758354-02	1.421047-02	1.022729-02	8.772632-03
5.103268-02	5.154587-02	4.401081-02	4.401230-02	3.536441-02	1.344790-02	9.772375-03	8.494829-03
4.842623-02	4.842740-02	4.119841-02	4.091779-02	3.293762-02	1.266356-02	9.365901-03	8.297164-03
4.536668-02	4.482155-02	3.808446-02	3.744589-02	3.036570-02	1.198758-02	9.115281-03	8.251401-03
4.172359-02	4.064622-02	3.466377-02	3.361221-02	2.767373-02	1.144632-02	9.093638-03	8.406902-03
3.662614-02	3.569927-02	3.112862-02	2.920108-02	2.515369-02	1.173137-02	9.705169-03	8.917274-03
2.842737-02	2.843594-02	2.618095-02	2.309615-02	2.167744-02	1.227889-02	1.057252-02	9.511294-03
1.957966-02	2.025294-02	1.977206-02	1.672790-02	1.675767-02	1.084895-02	9.933911-03	9.069789-03
1.288785-02	1.361497-02	1.370088-02	1.161972-02	1.180893-02	7.934084-03	7.658790-03	7.254269-03
7.894548-03	8.357967-03	8.537086-03	7.264051-03	7.461795-03	5.104861-03	5.041583-03	4.895670-03
3.705860-03	3.764506-03	3.841188-03	3.273114-03	3.367068-03	2.312737-03	2.311500-03	2.274357-03

9.381833-03	7.349923-03	4.652417-03	2.513345-03	8.991293-04	4.588979-04	
9.338352-03	7.317759-03	4.633301-03	2.503674-03	8.957863-04	4.572495-04	
9.253945-03	7.255685-03	4.596635-03	2.485267-03	8.896124-04	4.546097-04	
9.130446-03	7.165702-03	4.543875-03	2.458949-03	8.805696-04	4.502219-04	
8.970688-03	7.051042-03	4.477711-03	2.426609-03	8.700261-04	4.463703-04	
8.779012-03	6.916250-03	4.401383-03	2.390061-03	8.577163-04	4.409483-04	
8.562646-03	6.765681-03	4.320852-03	2.353602-03	8.469716-04	4.404083-04	
8.331758-03	6.617590-03	4.242268-03	2.320639-03	8.367786-04	4.400304-04	
8.102168-03	6.477400-03	4.177588-03	2.300659-03	8.353805-04	4.604613-04	
7.893788-03	6.363693-03	4.136752-03	2.299713-03	8.396685-04	4.948145-04	
7.736257-03	6.301734-03	4.144403-03	2.341619-03	8.737162-04	6.271553-04	
7.659387-03	6.310876-03	4.214203-03	2.438411-03	9.307082-04	8.792030-04	
7.708367-03	6.435197-03	4.410530-03	2.667464-03	1.104031-03	1.689506-03	
7.898350-03	6.678517-03	4.745734-03	3.055531-03	1.395945-03	3.341307-03	
8.304974-03	7.190703-03	5.526795-03	3.995886-03	2.401893-03	9.075077-03	
8.720279-03	7.823200-03	6.678264-03	5.497630-03	4.270463-03	2.091003-02	
8.336809-03	7.659099-03	6.932832-03	6.130379-03	5.279469-03	3.022743-02	
6.805707-03	6.344779-03	5.860978-03	5.336157-03	4.767544-03	3.063072-02	
4.686802-03	4.437971-03	4.159112-03	3.846715-03	3.504735-03	2.425171-02	
2.203667-03	2.106702-03	1.993062-03	1.855333-03	1.704698-03	1.272274-02	

LA
ASS. 9
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Be REFL.

							AUG 15 58
1.800000-01	5.000000 00	1.023300 00	1.000000-04	-7.644296-06	0.000000 00	1.158254 00	1.185242 00
							AUG 15 58
1.900000-01	8.300000 01	1.008685 00	1.000000-04	9.259582-05	0.000000 00	9.927753-01	1.001397 00
							AUG 15 58
2.704000 00	1.827904 00	0.010144 00	2.140169-03	9.121133-03	3.531964-02	1.781934-02	3.244539-02
5.408000 00	5.483712 00	0.010144 00	2.132849-03	9.095367-03	3.521266-02	1.776458-02	3.234931-02
8.112000 00	9.139520 00	0.010144 00	2.118751-03	9.041425-03	3.499168-02	1.765642-02	3.216203-02
1.081600 01	1.279532 01	0.010144 00	2.097814-03	8.962762-03	3.466705-02	1.749839-02	3.188888-02
1.352000 01	1.645113 01	0.010144 00	2.071034-03	8.861471-03	3.424349-02	1.729320-02	3.153474-02
1.622400 01	2.010694 01	0.010144 00	2.038135-03	8.740045-03	3.372579-02	1.704444-02	3.110656-02
1.892800 01	2.376275 01	0.010144 00	2.001945-03	8.601858-03	3.311906-02	1.675632-02	3.061178-02
2.163200 01	2.741856 01	0.010144 00	1.961963-03	8.451836-03	3.243035-02	1.643545-02	3.006169-02
2.433600 01	3.107436 01	0.010144 00	1.926648-03	8.295660-03	3.166586-02	1.608786-02	2.946371-02
2.704000 01	3.473017 01	0.010144 00	1.895833-03	8.143307-03	3.083595-02	1.572595-02	2.883328-02
2.974400 01	3.838598 01	0.010144 00	1.900262-03	8.004292-03	2.994225-02	1.535249-02	2.816014-02
3.244800 01	4.204179 01	0.010144 00	1.949306-03	7.905617-03	2.900531-02	1.499399-02	2.745981-02
3.515200 01	4.569759 01	0.010144 00	2.189135-03	7.843850-03	2.795680-02	1.459000-02	2.658756-02
3.785600 01	4.935340 01	0.010144 00	2.705963-03	7.924248-03	2.684919-02	1.422103-02	2.555352-02
4.056000 01	5.300920 01	0.010144 00	4.534095-03	6.426969-03	2.268784-02	1.262468-02	2.270997-02
4.390800 01	7.069971 01	0.010406 00	0.000000 00	3.384257-03	1.440964-02	8.517037-03	1.575508-02
4.725600 01	7.630426 01	0.010406 00	0.000000 00	1.470314-03	7.679739-03	4.634109-03	8.834415-03
5.060400 01	8.190881 01	0.010406 00	0.000000 00	7.731702-04	4.428757-03	2.651655-03	5.078719-03
5.395200 01	8.751336 01	0.010406 00	0.000000 00	4.388316-04	2.576958-03	1.501388-03	2.809854-03
5.730000 01	9.311791 01	0.010406 00	0.000000 00	2.593873-04	1.378712-03	7.245786-04	1.356105-03
							AUG 15 58
4.840854-02	4.986902-02	4.324496-02	4.416830-02	3.576148-02	1.348197-02	9.596086-03	8.044213-03
4.827019-02	4.972519-02	4.311334-02	4.401971-02	3.562971-02	1.343049-02	9.559589-03	8.012744-03
4.800069-02	4.944356-02	4.285440-02	4.372653-02	3.536984-02	1.332914-02	9.484909-03	7.951203-03
4.760488-02	4.902501-02	4.246638-02	4.328546-02	3.497907-02	1.317688-02	9.374701-03	7.860019-03
4.708670-02	4.846823-02	4.194485-02	4.268940-02	3.445209-02	1.297243-02	9.227631-03	7.739977-03
4.645076-02	4.776987-02	4.128242-02	4.192850-02	3.378148-02	1.271327-02	9.043233-03	7.592597-03
4.570023-02	4.692292-02	4.046891-02	4.098933-02	3.295930-02	1.239880-02	8.822800-03	7.421450-03
4.483764-02	4.591511-02	3.948912-02	3.985585-02	3.197587-02	1.202654-02	8.568299-03	7.232373-03
4.385705-02	4.472492-02	3.832439-02	3.850688-02	3.082400-02	1.160127-02	8.287655-03	7.036604-03
4.274827-02	4.331990-02	3.694858-02	3.692068-02	2.949529-02	1.112362-02	7.991148-03	6.850237-03
4.147077-02	4.164854-02	3.533661-02	3.506751-02	2.799334-02	1.061941-02	7.707374-03	6.701852-03
3.997580-02	3.964296-02	3.345450-02	3.292609-02	2.631886-02	1.009941-02	7.467852-03	6.625837-03
3.809734-02	3.719893-02	3.129617-02	3.045106-02	2.451719-02	9.671213-03	7.362903-03	6.683410-03
3.569059-02	3.420937-02	2.883746-02	2.764278-02	2.260254-02	9.356547-03	7.455148-03	6.917655-03
3.180565-02	3.044161-02	2.623426-02	2.431650-02	2.082303-02	9.740661-03	8.091293-03	7.464399-03
2.390257-02	2.369542-02	2.176624-02	1.894278-02	1.781857-02	1.027463-02	8.962254-03	8.126375-03
1.493135-02	1.560592-02	1.548085-02	1.298695-02	1.317101-02	8.779544-03	8.249743-03	7.677055-03
8.876248-03	9.594156-03	9.908416-03	8.485583-03	8.730948-03	5.986994-03	5.961774-03	5.821598-03
4.935704-03	5.388932-03	5.689667-03	4.935346-03	5.171911-03	3.606756-03	3.654944-03	3.664110-03
2.103930-03	2.215265-03	2.338596-03	2.045308-03	2.150956-03	1.503207-03	1.541481-03	1.565185-03
							AUG 15 58
7.024707-03	5.494069-03	3.471655-03	1.872019-03	6.683178-04	3.395144-04		
6.998308-03	5.474907-03	3.460543-03	1.866560-03	6.664604-04	3.386094-04		
6.947062-03	5.438026-03	3.439363-03	1.856291-03	6.631395-04	3.373920-04		
6.872112-03	5.384827-03	3.409179-03	1.841825-03	6.582745-04	3.350970-04		
6.775367-03	5.317706-03	3.372083-03	1.824684-03	6.530362-04	3.339095-04		
6.659904-03	5.240104-03	3.330595-03	1.806292-03	6.471060-04	3.317208-04		
6.531127-03	5.157791-03	3.289548-03	1.790243-03	6.433953-04	3.349255-04		
6.396917-03	5.078172-03	3.253958-03	1.779347-03	6.408902-04	3.398798-04		
6.269962-03	5.013130-03	3.233932-03	1.781831-03	6.469369-04	3.650824-04		
6.166629-03	4.975734-03	3.238005-03	1.802996-03	6.586691-04	4.075460-04		
6.111794-03	4.987654-03	3.287755-03	1.864073-03	6.978317-04	5.582880-04		
6.131013-03	5.065975-03	3.395709-03	1.976257-03	7.584810-04	8.481805-04		
6.263644-03	5.249825-03	3.619351-03	2.209313-03	9.255420-04	1.775956-03		
6.524057-03	5.544335-03	3.971385-03	2.529399-03	1.203034-03	3.697248-03		
6.981914-03	6.053841-03	4.726470-03	3.470230-03	2.133477-03	1.039493-02		
7.501071-03	6.805876-03	5.925844-03	5.007176-03	4.036205-03	2.638045-02		

7.165425-03	6.700360-03	6.217641-03	5.671067-03	5.078015-03	4.008263-02		
5.610330-03	5.364030-03	5.093313-03	4.788304-03	4.441683-03	4.067737-02		
3.627460-03	3.550651-03	3.440118-03	3.294337-03	3.118025-03	3.155311-02		
1.571425-03	1.558769-03	1.528041-03	1.479229-03	1.413621-03	1.512262-02		
							AUG 15 58
1.900000-01	8.300000 01	1.008685 00	1.000000-04	9.259582-05	0.000000 00	9.927753-01	1.001397 00

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AUG 15 58

1.100000-01	7.000000 00	1.004206 00	1.000000-04	-2.961486-03	0.000000 00	9.829959-01	9.871310-01

AUG 15 58

2.704000 00	1.827904 00	0.010250 00	1.200140-03	5.292789-03	2.135880-02	1.077458-02	2.004447-02
5.408000 00	5.483712 00	0.010250 00	1.199246-03	5.301327-03	2.139595-02	1.079407-02	2.008429-02
8.112000 00	9.139520 00	0.010250 00	1.197858-03	5.322153-03	2.147758-02	1.083539-02	2.016658-02
1.081600 01	1.279532 01	0.010250 00	1.196054-03	5.356730-03	2.160669-02	1.090162-02	2.029774-02
1.352000 01	1.645113 01	0.010250 00	1.195243-03	5.408915-03	2.179198-02	1.099850-02	2.048846-02
1.622400 01	2.010694 01	0.010250 00	1.195646-03	5.484896-03	2.204668-02	1.113493-02	2.075476-02
1.892800 01	2.376275 01	0.010250 00	1.201293-03	5.593011-03	2.238746-02	1.132209-02	2.111565-02
2.163200 01	2.741856 01	0.010250 00	1.212848-03	5.745582-03	2.283657-02	1.157645-02	2.159830-02
2.433600 01	3.107436 01	0.010250 00	1.242785-03	5.957993-03	2.341826-02	1.191525-02	2.222707-02
2.704000 01	3.473017 01	0.010250 00	1.294540-03	6.255022-03	2.416667-02	1.236846-02	2.304255-02
2.974400 01	3.838598 01	0.010250 00	1.416901-03	6.664428-03	2.510689-02	1.295140-02	2.404673-02
3.244800 01	4.204179 01	0.010250 00	1.636269-03	7.251497-03	2.630346-02	1.372500-02	2.528829-02
3.515200 01	4.569759 01	0.010250 00	2.211617-03	8.040246-03	2.768499-02	1.459833-02	2.653675-02
3.785600 01	4.935340 01	0.010250 00	3.343214-03	9.283487-03	2.942882-02	1.574358-02	2.781570-02
4.056000 01	5.300920 01	0.010250 00	6.973238-03	8.124752-03	2.643540-02	1.488296-02	2.617257-02
4.607600 01	1.194710 02	0.010512 00	0.000000 00	3.499273-03	1.453079-02	8.724023-03	1.597393-02
5.159200 01	1.346841 02	0.010512 00	0.000000 00	8.703688-04	4.931211-03	3.006415-03	5.856069-03
5.710800 01	1.498972 02	0.010512 00	0.000000 00	3.391455-04	2.140353-03	1.265363-03	2.413895-03
6.262400 01	1.651104 02	0.010512 00	0.000000 00	1.465112-04	9.006041-04	5.092627-04	9.547995-04
6.814000 01	1.803235 02	0.010512 00	0.000000 00	6.892069-05	4.104137-04	2.263122-04	4.149214-04
7.101500 01	1.000176 02	0.010754 00	0.000000 00	4.685800-05	2.235055-04	1.025927-04	1.767891-04
7.389000 01	1.041504 02	0.010754 00	0.000000 00	3.352373-05	1.475599-04	6.154353-05	1.005577-04

AUG 15 58

3.133405-02	3.441670-02	3.031914-02	2.995119-02	2.262338-02	8.168880-03	5.544439-03	4.382327-03
3.139784-02	3.446375-02	3.033382-02	2.993493-02	2.259249-02	8.155150-03	5.533929-03	4.373866-03
3.152666-02	3.455718-02	3.036211-02	2.990178-02	2.253122-02	8.128190-03	5.513472-03	4.357723-03
3.172705-02	3.469878-02	3.040257-02	2.984926-02	2.243831-02	8.087708-03	5.483351-03	4.334910-03
3.200873-02	3.488987-02	3.045196-02	2.977251-02	2.231169-02	8.033901-03	5.444456-03	4.307392-03
3.238430-02	3.512955-02	3.050363-02	2.966444-02	2.214875-02	7.966537-03	5.398225-03	4.278560-03
3.286484-02	3.541035-02	3.054551-02	2.951358-02	2.194723-02	7.887780-03	5.348384-03	4.254532-03
3.346120-02	3.571532-02	3.055743-02	2.930519-02	2.170483-02	7.799050-03	5.300398-03	4.244892-03
3.417107-02	3.600943-02	3.050941-02	2.901665-02	2.142177-02	7.709104-03	5.266102-03	4.265450-03
3.498596-02	3.623630-02	3.035713-02	2.862160-02	2.109738-02	7.623634-03	5.260943-03	4.338443-03
3.584649-02	3.630148-02	3.004571-02	2.807727-02	2.073729-02	7.570575-03	5.317056-03	4.497811-03
3.667922-02	3.607560-02	2.949872-02	2.733770-02	2.033546-02	7.561903-03	5.469509-03	4.783596-03
3.719232-02	3.535117-02	2.864880-02	2.631091-02	1.990676-02	7.693098-03	5.802997-03	5.254706-03
3.710427-02	3.389046-02	2.739737-02	2.493156-02	1.941552-02	7.975958-03	6.376775-03	5.952408-03
3.461481-02	3.120444-02	2.582516-02	2.292976-02	1.902030-02	8.946291-03	7.507078-03	6.985093-03
2.366755-02	2.263218-02	2.064285-02	1.760970-02	1.677416-02	1.008454-02	9.098485-03	8.441379-03
1.063563-02	1.138900-02	1.202606-02	1.047035-02	1.138882-02	8.071545-03	8.025684-03	7.823980-03
4.370614-03	4.889455-03	5.513266-03	5.256897-03	5.920859-03	4.259048-03	4.522609-03	4.714722-03
1.768221-03	1.970307-03	2.245547-03	2.140380-03	2.513027-03	1.863987-03	1.972650-03	2.085590-03
7.063282-04	7.564140-04	8.220362-04	7.815317-04	8.696802-04	6.217464-04	6.687409-04	7.077441-04
3.011775-04	3.149445-04	3.317746-04	3.141653-04	3.375938-04	2.225782-04	2.269472-04	2.351527-04
1.611063-04	1.633155-04	1.634279-04	1.679590-04	1.661920-04	9.875699-05	1.085023-04	1.138470-04

AUG 15 58

3.588882-03	2.638751-03	1.589980-03	8.322027-04	2.928660-04	1.479530-04		
3.582990-03	2.635862-03	1.589247-03	8.324094-04	2.930459-04	1.481219-04		
3.572221-03	2.631113-03	1.588570-03	8.333472-04	2.937665-04	1.491014-04		
3.558279-03	2.626394-03	1.589380-03	8.358693-04	2.950352-04	1.501357-04		
3.544240-03	2.625120-03	1.594477-03	8.419396-04	2.982167-04	1.539119-04		
3.535105-03	2.632477-03	1.607655-03	8.537926-04	3.032813-04	1.583992-04		
3.539029-03	2.656796-03	1.635605-03	8.761883-04	3.136653-04	1.723360-04		
3.568042-03	2.709465-03	1.686365-03	9.138869-04	3.290482-04	1.919193-04		
3.640149-03	2.807554-03	1.773933-03	9.776358-04	3.580222-04	2.508820-04		
3.778927-03	2.971356-03	1.912597-03	1.076642-03	3.991354-04	3.519437-04		
4.016074-03	3.229587-03	2.129678-03	1.236454-03	4.771107-04	6.591826-04		
4.384381-03	3.607375-03	2.445426-03	1.474826-03	5.890063-04	1.270353-03		
4.922389-03	4.144715-03	2.920850-03	1.868140-03	8.302970-04	3.176181-03		
5.642952-03	4.848338-03	3.577120-03	2.455341-03	1.217421-03	7.224885-03		

6.587632-03	5.830753-03	4.685395-03	3.613796-03	2.370015-03	2.118411-02
7.943504-03	7.407290-03	6.738285-03	6.014214-03	5.208642-03	6.586628-02
7.595061-03	7.379360-03	7.139115-03	6.820563-03	6.452248-03	1.040868-01
4.824642-03	4.864350-03	4.838809-03	4.757630-03	4.626357-03	9.685618-02
2.198863-03	2.299538-03	2.370749-03	2.403701-03	2.409609-03	6.575090-02
7.445939-04	7.823039-04	8.190789-04	8.516533-04	8.771700-04	3.199133-02
2.442065-04	2.545742-04	2.663635-04	2.780021-04	2.930347-04	1.350537-02
1.178736-04	1.215501-04	1.248668-04	1.298824-04	1.359064-04	6.590741-03

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							AUG 15 58
1.500000-01	1.200000 01	9.691823-01	1.000000-04	9.682030-05	0.000000 00	2.752337-01	1.492609-01
							AUG 15 58
3.306000 00	2.732409 00	0.010144 00	1.996621-03	8.263847-03	3.256991-02	1.584029-02	2.804462-02
6.612000 00	8.197227 00	0.010144 00	1.982654-03	8.207288-03	3.234324-02	1.572948-02	2.784701-02
9.918000 00	1.366204 01	0.010144 00	1.955393-03	8.092675-03	3.188938-02	1.550936-02	2.746180-02
1.322400 01	1.912686 01	0.010144 00	1.914994-03	7.924619-03	3.122420-02	1.518759-02	2.689523-02
1.653000 01	2.459168 01	0.010144 00	1.862011-03	7.705289-03	3.035590-02	1.476692-02	2.615322-02
1.983600 01	3.005649 01	0.010144 00	1.796720-03	7.437143-03	2.929233-02	1.425147-02	2.524359-02
2.314200 01	3.552131 01	0.010144 00	1.720355-03	7.123201-03	2.804710-02	1.364690-02	2.417546-02
2.644800 01	4.098613 01	0.010144 00	1.633398-03	6.767426-03	2.663023-02	1.295976-02	2.296089-02
2.975400 01	4.645095 01	0.010144 00	1.538572-03	6.374343-03	2.505705-02	1.219712-02	2.161088-02
3.306000 01	5.191577 01	0.010144 00	1.436773-03	5.949807-03	2.334417-02	1.136851-02	2.014037-02
3.636600 01	5.738058 01	0.010144 00	1.335023-03	5.498841-03	2.150489-02	1.047821-02	1.855379-02
3.967200 01	6.284540 01	0.010144 00	1.236070-03	5.029534-03	1.955517-02	9.538195-03	1.686314-02
4.297800 01	6.831022 01	0.010144 00	1.163469-03	4.535265-03	1.747611-02	8.524208-03	1.502485-02
4.628400 01	7.377504 01	0.010144 00	1.130028-03	4.037352-03	1.527916-02	7.454537-03	1.303461-02
4.959000 01	7.923985 01	0.010144 00	1.251193-03	3.546217-03	1.296967-02	6.374770-03	1.096801-02
5.263300 01	7.739772 01	0.010406 00	0.000000 00	1.995939-03	8.795091-03	4.209891-03	7.529588-03
5.568600 01	8.254290 01	0.010406 00	0.000000 00	1.228239-03	6.164111-03	2.877435-03	5.209120-03
5.873400 01	8.718902 01	0.010406 00	0.000000 00	7.976724-04	4.345678-03	1.988805-03	3.565466-03
6.178200 01	9.183317 01	0.010406 00	0.000000 00	5.241750-04	2.992121-03	1.329653-03	2.319165-03
6.483000 01	9.647835 01	0.010406 00	0.000000 00	3.260132-04	1.832190-03	7.444109-04	1.215446-03
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4.136655-02	4.246648-02	3.685593-02	3.846506-02	3.263136-02	1.378713-02	1.110760-02	9.808995-03
4.107679-02	4.217079-02	3.659981-02	3.819705-02	3.240315-02	1.369051-02	1.102466-02	9.740022-03
4.051212-02	4.159364-02	3.609930-02	3.767301-02	3.195684-02	1.350155-02	1.087222-02	9.605150-03
3.967981-02	4.074090-02	3.535856-02	3.689673-02	3.129542-02	1.322146-02	1.064629-02	9.405367-03
3.858789-02	3.961986-02	3.438305-02	3.587320-02	3.042310-02	1.285213-02	1.034848-02	9.142192-03
3.724674-02	3.823948-02	3.317934-02	3.460960-02	2.934520-02	1.239581-02	9.980726-03	8.817659-03
3.566853-02	3.661049-02	3.175557-02	3.311114-02	2.806944-02	1.185621-02	9.546371-03	8.434985-03
3.386766-02	3.474414-02	3.012012-02	3.138988-02	2.660475-02	1.123723-02	9.048949-03	7.998187-03
3.185731-02	3.269152-02	2.828219-02	2.945642-02	2.496393-02	1.054554-02	8.494858-03	7.513513-03
2.965121-02	3.034158-02	2.625009-02	2.732335-02	2.316133-02	9.787553-03	7.890276-03	6.988507-03
2.725326-02	2.782066-02	2.403436-02	2.500939-02	2.121975-02	8.976232-03	7.248413-03	6.435619-03
2.725326-02	2.782066-02	2.403436-02	2.500939-02	2.121975-02	8.976232-03	7.248413-03	6.435619-03
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2.466546-02	2.509044-02	2.164535-02	2.253588-02	1.916333-02	8.122171-03	6.580411-03	5.868815-03
2.466546-02	2.509044-02	2.164535-02	2.253588-02	1.916333-02	8.122171-03	6.580411-03	5.868815-03
2.185284-02	2.215093-02	1.910496-02	1.994115-02	1.703660-02	7.254581-03	5.917941-03	5.313308-03
1.879164-02	1.900583-02	1.644138-02	1.726554-02	1.487574-02	6.388955-03	5.279429-03	4.789152-03
1.527056-02	1.567606-02	1.372391-02	1.459845-02	1.278491-02	5.623031-03	4.772263-03	4.347912-03
1.156374-02	1.238321-02	1.110614-02	1.203392-02	1.079371-02	4.939315-03	4.349685-03	3.938393-03
8.402598-03	9.390639-03	8.635212-03	9.538693-03	8.742274-03	4.122179-03	3.737812-03	3.391255-03
5.862166-03	6.710278-03	6.283299-03	7.052733-03	6.565327-03	3.143544-03	2.904818-03	2.661162-03
3.802442-03	4.381992-03	4.141776-03	4.705735-03	4.430985-03	2.142241-03	2.003516-03	1.850172-03
1.912939-03	2.147147-03	2.021531-03	2.318684-03	2.197548-03	1.067504-03	1.004547-03	9.321973-04
							AUG 15 58
7.780085-03	6.516172-03	4.278324-03	2.587236-03	1.268587-03	1.216880-03		
7.725361-03	6.470379-03	4.248329-03	2.569149-03	1.259737-03	1.208449-03		
7.618390-03	6.380904-03	4.189759-03	2.533856-03	1.242514-03	1.192197-03		
7.459984-03	6.248538-03	4.103087-03	2.481621-03	1.216957-03	1.167907-03		
7.251559-03	6.074593-03	3.989412-03	2.413252-03	1.183659-03	1.136754-03		
6.994836-03	5.860812-03	3.849786-03	2.329341-03	1.142678-03	1.098197-03		
6.692915-03	5.610086-03	3.686695-03	2.231721-03	1.095392-03	1.055185-03		
6.349216-03	5.325940-03	3.502146-03	2.121511-03	1.041822-03	1.006717-03		
5.969948-03	5.014098-03	3.301278-03	2.002640-03	9.850827-04	9.606003-04		
5.561362-03	4.681040-03	3.087444-03	1.876995-03	9.249644-04	9.161932-04		
5.136045-03	4.337854-03	2.871586-03	1.753776-03	8.695177-04	8.985625-04		
4.704375-03	3.995277-03	2.658440-03	1.636466-03	8.135560-04	9.161535-04		
4.292975 03	3.674713-03	2.475532-03	1.552754-03	7.998668-04	1.069604-03		
3.912703-03	3.388176-03	2.320109-03	1.513048-03	8.204427-04	1.427410-03		
3.642411-03	3.187559-03	2.335521-03	1.650464-03	1.036142-03	2.512660-03		

3.425504-03	3.014099-03	2.431533-03	1.991988-03	1.395038-03	4.095121-03		
3.024533-03	2.687265-03	2.290891-03	1.939941-03	1.495108-03	4.937623-03		
2.403250-03	2.151744-03	1.880465-03	1.600816-03	1.316037-03	4.701929-03		
1.685686-03	1.519675-03	1.345012-03	1.165054-03	9.792926-04	3.684260-03		
8.532350-04	7.722897-04	6.852130-04	5.982243-04	5.081404-04	1.959247-03		

AUG 15 58

1.500000-01	1.200000 01	9.691823-01	1.000000-04	9.682030-05	0.000000 00	3.752337-01	9.482609-01

LRL
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Be REFL.
1 MIL U^{235}

1.250000-01	1.[illegible] 02	9.495[illegible]-01	1.000000-04	3.400296-04	[illegible].000000 00	5.[illegible]-01	AUG 15 5[illegible] .[illegible]-01
1.250000-01	1.520001 02	9.593202-01	1.000000-04	9.980053-05	0.000000 00	5.398738-01	AUG 15 5[illegible] 5.[illegible]-01
3.526000 00	3.108169 00	0.010144 00	8.475173-04	3.566721-03	1.421979-02	6.905360-03	AUG 15 5[illegible] 1.231573-02
7.052000 00	9.324507 00	0.010144 00	8.435848-04	3.551270-03	1.415686-02	6.874509-03	1.[illegible]-02
1.057800 01	1.554084 01	0.010144 00	8.359153-04	3.520258-03	1.403142-02	6.814178-03	1.209706-02
1.410400 01	2.175718 01	0.010144 00	8.245533-04	3.474994-03	1.384753-02	6.725661-03	1.190327-02
1.763000 01	2.797352 01	0.010144 00	8.097556-04	3.416342-03	1.360743-02	6.610193-03	1.170265-02
2.115600 01	3.417936 01	0.010144 00	7.917351-04	3.345476-03	1.331868-02	6.469322-03	1.145838-02
2.468200 01	4.040619 01	0.010144 00	7.712803-04	3.263945-03	1.296914-02	6.304902-03	1.117396-02
2.820800 01	4.662253 01	0.010144 00	7.491160-04	3.173525-03	1.257697-02	6.119463-03	1.085390-02
3.173400 01	5.283887 01	0.010144 00	7.273684-04	3.077299-03	1.213899-02	5.914674-03	1.050091-02
3.526000 01	5.905520 01	0.010144 00	7.080052-04	2.976770-03	1.165496-02	5.692683-03	1.011804-02
3.878600 01	6.527155 01	0.010144 00	6.964881-04	2.872005-03	1.111520-02	5.449553-03	9.695561-03
4.231200 01	7.148788 01	0.010144 00	6.975287-04	2.762031-03	1.050196-02	5.181226-03	9.222220-03
4.583800 01	7.770422 01	0.010144 00	7.254432-04	2.623397-03	9.747068-03	4.952659-03	9.631896-03
4.936400 01	8.392056 01	0.010144 00	7.897877-04	2.452318-03	8.790671-03	4.438371-03	7.969746-03
5.289000 01	9.013690 01	0.010144 00	9.364831-04	1.822526-03	6.893294-03	3.667563-03	6.[illegible]62690-03
5.593800 01	9.592692 01	0.010406 00	0.000000 00	9.298767-04	4.266401-03	2.440778-03	4.470725-03
5.898600 01	9.757207 01	0.010406 00	0.000000 00	4.432357-04	2.392748-03	1.401595-03	2.614507-03
6.203400 01	9.221725 01	0.010406 00	0.000000 00	2.429394-04	1.420509-03	8.259646-04	1.545948-03
6.508200 01	9.686237 01	0.010406 00	0.000000 00	1.426389-04	8.491724-04	4.[illegible]22943-04	[illegible].215130-04
6.813000 01	1.015074 02	0.010406 00	0.000000 00	8.720737-05	4.664055-04	2.379234-04	4.021543-04
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1.803483-02	1.375864-02	1.659920-02	1.801588-02	1.655097-02	7.759628-03	7.156661-03	6.765055-03
1.786327-02	1.360403-02	1.646295-02	1.786513-02	1.640749-02	7.690910-03	7.091747-03	6.702183-03
1.766026-02	1.337534-02	1.626019-02	1.763955-02	1.619174-02	7.587318-03	6.993908-03	6.607438-03
1.736849-02	1.307399-02	1.599097-02	1.733730-02	1.590124-02	7.447746-03	6.861868-03	6.479682-03
1.701132-02	1.770122-02	1.565422-02	1.695566-02	1.553197-02	7.269810-03	6.693781-03	6.317370-03
1.659200-02	1.725711-02	1.524780-02	1.648934-02	1.507873-02	7.051636-03	6.487666-03	6.119126-03
1.611345-02	1.673952-02	1.476638-02	1.593157-02	1.453401-02	6.799084-03	6.241153-03	5.889619-03
1.557472-02	1.614147-02	1.420196-02	1.527062-02	1.388949-02	6.490538-03	5.952848-03	5.611119-03
1.497047-02	1.544965-02	1.354046-02	1.449439-02	1.313433-02	6.120446-03	5.622227-03	5.303448-03
1.428100-02	1.463949-02	1.276587-02	1.358282-02	1.226039-02	5.712950-03	5.253799-03	4.967797-03
1.347379-02	1.367631-02	1.185547-02	1.252315-02	1.125835-02	5.254436-03	4.856729-03	4.615350-03
1.247596-02	1.250913-02	1.079860-02	1.128539-02	1.013341-02	4.777694-03	4.456712-03	4.268806-03
1.120286-02	1.109165-02	9.586435-03	9.872375-03	8.891525-03	4.292995-03	4.086562-03	3.949023-03
9.437081-03	9.366015-03	8.286606-03	8.183059-03	7.599743-03	3.990522-03	3.819275-03	3.689646-03
6.895188-03	7.014628-03	6.598243-03	5.981490-03	5.964595-03	3.661045-03	3.464053-03	3.326635-03
4.384905-03	4.608963-03	4.628210-03	3.960607-03	4.145762-03	2.840230-03	2.766981-03	2.691690-03
2.663042-03	2.865295-03	2.965918-03	2.564226-03	2.685563-03	1.872212-03	1.903040-03	1.905128-03
1.515432-03	1.635058-03	1.716959-03	1.492325-03	1.577914-03	1.111016-03	1.140113-03	1.162792-03
6.581612-04	6.818007-04	7.119963-04	6.215936-04	6.567372-04	4.620273-04	4.781088-04	4.912298-04
6.224507-03	5.781554-03	4.949500-03	4.099832-03	3.094031-03	9.385116-03		AUG 15 58
6.194711-03	5.753321-03	4.924985-03	4.079317-03	3.078450-03	9.343902-03		
6.135874-03	5.697621-03	4.876681-03	4.038947-03	3.047841-03	9.264700-03		
6.047293-03	5.613922-03	4.804205-03	3.978492-03	3.002066-03	9.149523-03		
5.928100-03	5.501629-03	4.707317-03	3.897961-03	2.941339-03	9.005562-03		
5.777155-03	5.360074-03	4.585668-03	3.797283-03	2.865676-03	8.839519-03		
5.593825-03	5.189241-03	4.439856-03	3.677386-03	2.776223-03	8.670885-03		
5.377709-03	4.989625-03	4.270656-03	3.539256-03	2.673780-03	8.518128-03		
5.130519-03	4.763791-03	4.081328-03	3.386309-03	2.561848-03	8.430234-03		
4.855276-03	4.515668-03	3.875294-03	3.221748-03	2.442811-03	8.453494-03		
4.560469-03	4.253642-03	3.661325-03	3.054189-03	2.325615-03	8.710197-03		
4.255983-03	3.986825-03	3.446054-03	2.889876-03	2.215362-03	9.309426-03		

3.962[illegible]4-03	3.731773-03	3.243352-03	2.749362-03	2.136637-03	1.056823-02
3.689966-03	3.497209-03	3.074411-03	2.641969-03	2.100531-03	1.270867-02
3.477049-03	3.312723-03	2.982644-03	2.639321-03	2.206824-03	1.672172-02
3.179886-03	3.045152-03	2.860232-03	2.643431-03	2.378650-03	2.263343-02
2.618993-03	2.542293-03	2.459563-03	2.354036-03	2.226470-03	2.581390-02
1.890602-03	1.866326-03	1.832248-03	1.785972-03	1.725421-03	2.326805-02
1.175367-03	1.178123-03	1.173036-03	1.157929-03	1.133920-03	1.697200-02
5.010992-04	5.072104-04	5.091359-04	5.064884-04	4.994415-04	7.917431-03

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This partial list should be supplemented by many unpublished works and communications by G. Bell, J. Griffin, R. Henkel, et al., in Los Alamos and by very numerous publications and communications from elsewhere. These will be listed in a following work.