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Lifting Reentry Communications

Volume III: Plane Wave Attenuation Tables

FEBRUARY 1967

Prepared by REENTRY AND PLASMA-ELECTROMAGNETICS DEPARTMENT
Plasma Research Laboratory
Laboratories Division
Laboratory Operations
AEROSPACE CORPORATION

Prepared for BALLISTIC SYSTEMS AND SPACE SYSTEMS DIVISIONS
AIR FORCE SYSTEMS COMMAND
LOS ANGELES AIR FORCE STATION
Los Angeles, California

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LIFTING REENTRY COMMUNICATIONS
VOLUME III: PLANE WAVE ATTENUATION TABLES

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Los Angeles, California

FOREWORD

This report is published by the Aerospace Corporation, El Segundo, California, under Air Force Contract Nos. AI 04(695)-669 and AF 04(695)-1001. The report was authored by the following members of the ad hoc Working Group on Reentry Communications:

Donald M. Dix
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This working group was organized by Richard H. Huddlestone, Head, Reentry and Plasma-Electromagnetics Department, Plasma Research Laboratory in anticipation of the requirements of the Space Systems Division. The authors gratefully acknowledge Dr. Huddlestone's many suggestions and his constructive criticism.

This report, which documents research carried out from 1 July 1965 through 1 February 1967, was submitted on 22 March 1967 to Captain Ronald J. Starbuck, SSTRT, for review and approval.

Approved

R. X. Meyer, Director
Plasma Research Laboratory
Laboratories Division
Laboratories Operations

Publication of this report does not constitute Air Force approval of the report's findings or conclusions. It is published only for the exchange and stimulation of ideas.

Ronald J. Starbuck
Captain, USAF
Chief, Space Environment and
Electronics Branch

ABSTRACT

The reentry signal attenuation calculations presented in this volume are a part of the lifting reentry communication system study described in Volumes I and II. Extensive plane wave attenuation tables are given for the following plasma conditions:

$$0.8 \leq \omega_p/\omega \leq 800$$
$$10^{-4} \leq d/\lambda_0 \leq 3.5$$
$$10^{-4} \leq 2\pi c\nu/\omega_p^2 d \leq 1.0$$

A brief review of the plane wave analysis is also included. Plasma antenna effects and the effects of inhomogeneities in the plasma sheath are discussed.

CONTENTS

FIGURES

NOMENCLATURE

a	aperture width
c	velocity of light
d	plasma slab thickness
$E^{\pm}$	electric field amplitudes in plasma slab
$\mathcal{E}_{ap}$	complex amplitude of electric field across aperture
E_o	electric field amplitude in feed waveguide
$g(\theta)$	gain function
$G(\theta)$	normalized gain function
k_o	free space wavenumber
k_p	plasma wavenumber
$k_{oz}(k_{pz})$	z component of $k_o(k_p)$
$\hat{r}_o(\hat{r}_p)$	complex voltage reflection coefficient for aperture radiating into free space (plasma environment)
t	transmission coefficient
$\bar{u}_x(\bar{u}_y)$	unit vector in x (or y) direction
V	ν/ω, collisional parameters
W	ω_p/ω , normalized plasma frequency
Y_o (Y_g)	admittance of free space (feed waveguide)
Z_s	equivalent plasma surface impedance
Z_o	characteristic impedance of free surface

α_p	plasma attenuation constant
γ	equivalent angle of incidence
ϵ_o	permittivity of free space
ϵ_p	complex dielectric constant of plasma region, Eq. (1)
θ	angle of observation with respect to z axis
λ_o	free space wavelength
μ_o	permeability of free space
ν	equivalent collision frequency
ω	radian signal frequency
ω_p	radian plasma frequency

Superscripts

o	without plasma sheath
p	with plasma sheath
i	incident
r	reflected
t	transmitted

I. INTRODUCTION

This is the last of three volumes describing the analysis of lifting reentry communication systems. This volume is concerned with the electromagnetic analysis of plane wave transmission through a plasma slab. The results of attenuation computations, performed on a digital computer, are presented in tabular format in the appendix to this volume. These tables were used extensively in the estimates of reentry signal attenuation which appear in Volumes I and II. However since the plasma parameters appearing in the tables were varied over a wide range, the tables should be useful for many other current reentry applications as well as for lifting reentry.

A plane-wave homogeneous-plasma-slab model is assumed for the attenuation computations. This model was chosen because it is the simplest one which incorporates all the necessary ingredients for attenuation estimates without including the details confronting an actual reentry flight configuration. The validity and limitations of this plane wave approximation are discussed briefly in later sections of this report.

II. PLANE WAVE ANALYSIS

A. PLASMA ATTENUATION

This section contains a brief review of the plane wave analysis and a discussion of the plasma slab attenuation tables. A more detailed discussion of the plane wave transmission through a plasma slab for an arbitrary angle of incidence is given in Ref. 1.

The plasma slab geometry is depicted in Fig. 1. The plasma region is sharply bounded by free space on either side and is assumed to be homogeneous, isotropic, and slightly ionized. Collisional effects are assumed to be due to electron-neutral collisions and to be velocity independent. The plasma region is thus characterized by a complex dielectric constant ϵ_p, which is equal to (Ref. 2)

$$\epsilon_p = \epsilon_o \left(1 - \frac{W^2}{1-jV}\right) \tag{1}$$

with $W = \omega_p/\omega$ and $V = \nu/\omega$, where ϵ_o is the permittivity of free space, ω_p is the radian plasma frequency, ω is the radian signal frequency, and ν is the equivalent collision frequency.

The normal incident plane wave is assumed to impinge upon the plasma slab from the left, $z = -\infty$, and to have an $e^{+j\omega t}$ time dependence. The electromagnetic fields in the three regions can be written in the form (Ref. 1)

$$\bar{E}_1 = \bar{u}_x \left[E^i e^{-jk_o z} + E^r e^{+jk_o z}\right]$$

$$\bar{E}_2 = \bar{u}_x \left[E^- e^{-jk_p z} + E^+ e^{+jk_p z}\right]$$

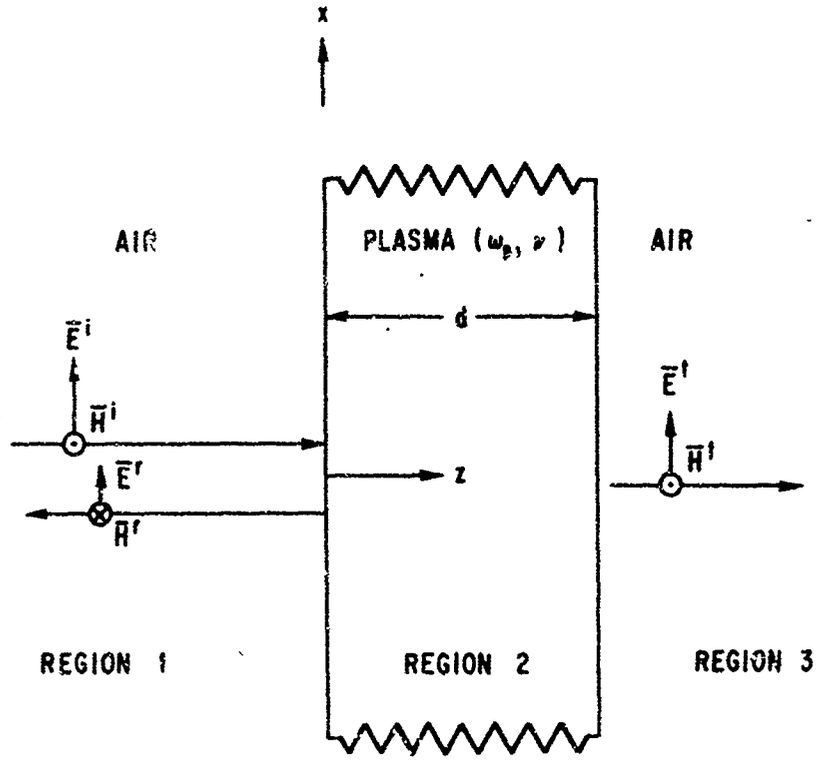

Fig. 1. Plasma Slab Geometry

$$\bar{E}_3 = \bar{u}_x \quad E^t e^{-jk_o z}$$

$$\bar{H}_1 = \bar{u}_y \quad (k_o/\omega\mu_o)\left[E^i e^{-jk_o z} - E^r e^{+jk_o z}\right]$$

$$\bar{H}_2 = \bar{u}_y \quad (k_p/\omega\mu_o)\left[E^- e^{-jk_p z} - E^+ e^{+jk_p z}\right]$$

$$\bar{H}_3 = \bar{u}_y \quad (k_o/\omega\mu_o) \quad E^t e^{-jk_o z}$$

where k_o is the free space wavenumber, k_p is the plasma wavenumber, μ_o is the permeability of free space, $\bar{u}_x$ is the unit vector in the x direction, and $\bar{u}_y$ is the unit vector in the y direction. The subscripts 1, 2 and 3 designate regions 1, 2, and 3 in Fig. 1. The fields in region 1 represent the incident and reflected plane waves, the fields in region 3 comprise the transmitted plane wave, and the fields in region 2 correspond to the standing and traveling wave components in the plasma slab. The transmission coefficient t is defined as the ratio E^t/E^i. It is obtained by applying the appropriate boundary conditions at the two plasma-air interfaces, which results in

$$t = \frac{E^t}{E^i} = \frac{e^{+jk_o d}}{\cos k_p d + (j/2)(\kappa_o/k_p + k_p/k_o)\sin k_p d} \tag{2}$$

where d is the slab thickness and

$$k_o = \omega(\mu_o \epsilon_o)^{1/2}$$

$$k_p = k_o\left(1 - \frac{W^2}{1-jV}\right)^{1/2}$$

The 7094 computer was programmed by the Aerospace Computation and Data Processing Center to calculate the magnitude of the complex transmission coefficient given in Eq. (2) and to display the computer output in tabular form as a function of the various plasma parameters. The Appendix contains the computations for plasma conditions commonly encountered during reentry. The normalized plasma frequency W and the normalized plasma thickness d/λ_o were varied from 0.8 to 800 and 10^{-4} to 3.5, respectively. Each page of the computer printout tabulates the plane wave attenuation through a plasma slab in dB for a given set of values of d/λ_o and ω_p/ω and a fixed value of the parameter $V\lambda_o/W^2d$. The printed parameters D/LAM.0 and VLAM.0/W**2D, which appear on the printout sheets, denote the plasma parameters d/λ_o and $V\lambda_o/W^2d$, respectively.

Some of the computer results are also presented graphically in Figs. 2 through 6. Figure 2 represents the plane wave plasma attenuation as a function of ω_p/ω and d/λ_o when the collisional parameter ν/ω_p is assumed to be zero. The printed numbers associated with each attenuation contour correspond to the attenuation level in dB. The dashed lines represent paths of constant plasma conditions ($\omega_p d/2\pi c$ = const, ν/ω_p = const) and yield the frequency dependence of the plane wave attenuation. Moving to the left on one of the constant plasma contours is equivalent to increasing the signal frequency. For a collisionless plasma, the plane wave attenuation decreases with increasing frequency, and increases with increasing slab thickness or plasma frequency.

Figures 3 and 4 display the attenuation contours with the collisional parameter ν/ω_p equal to 0.1 and 1.0, respectively. The most significant difference between the results for lossy and lossless plasmas is an alteration in the frequency dependence.

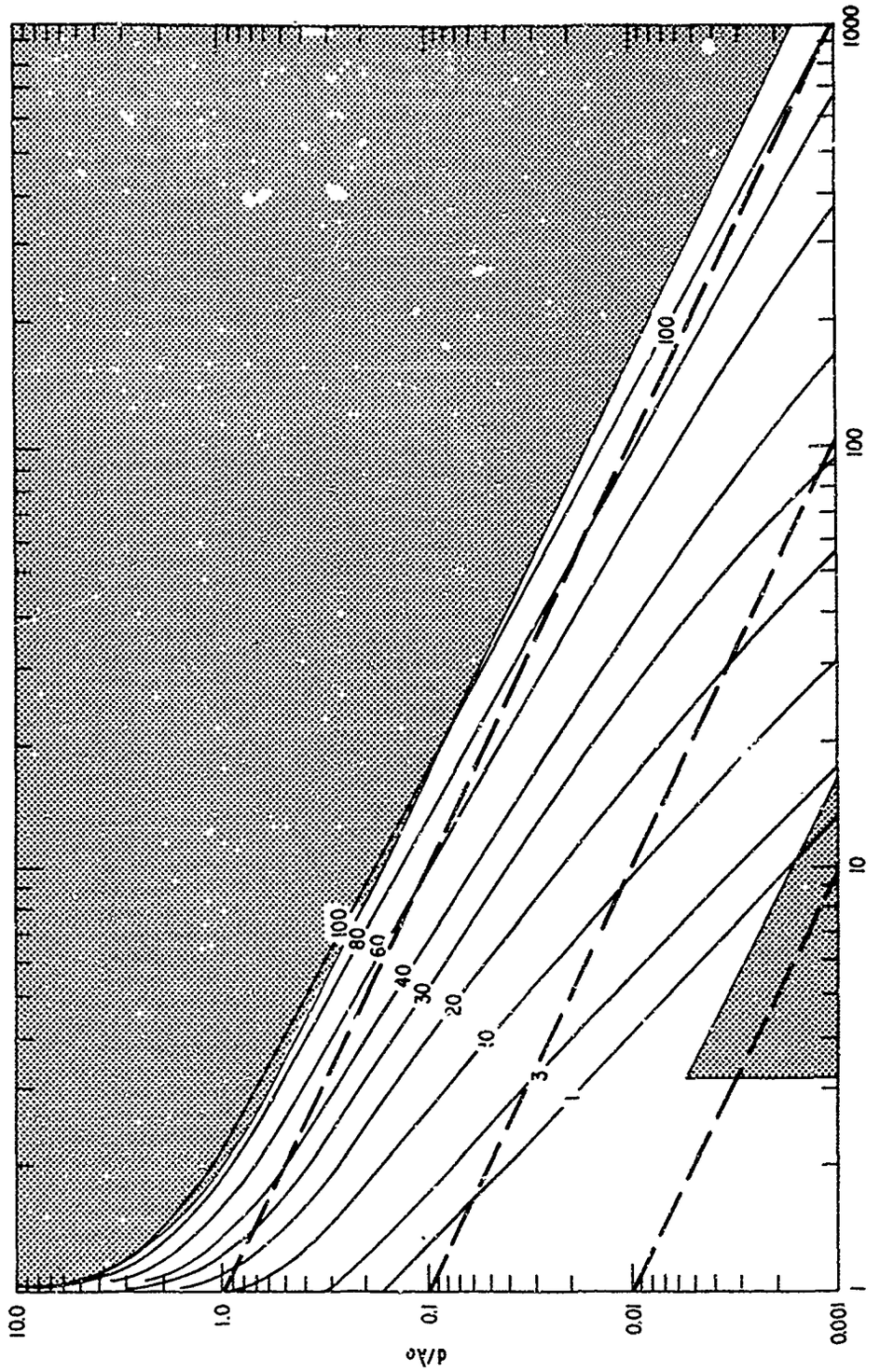

Fig. 2. Plasma Slab Attenuation Contours ($\nu/\omega_p = 0$)

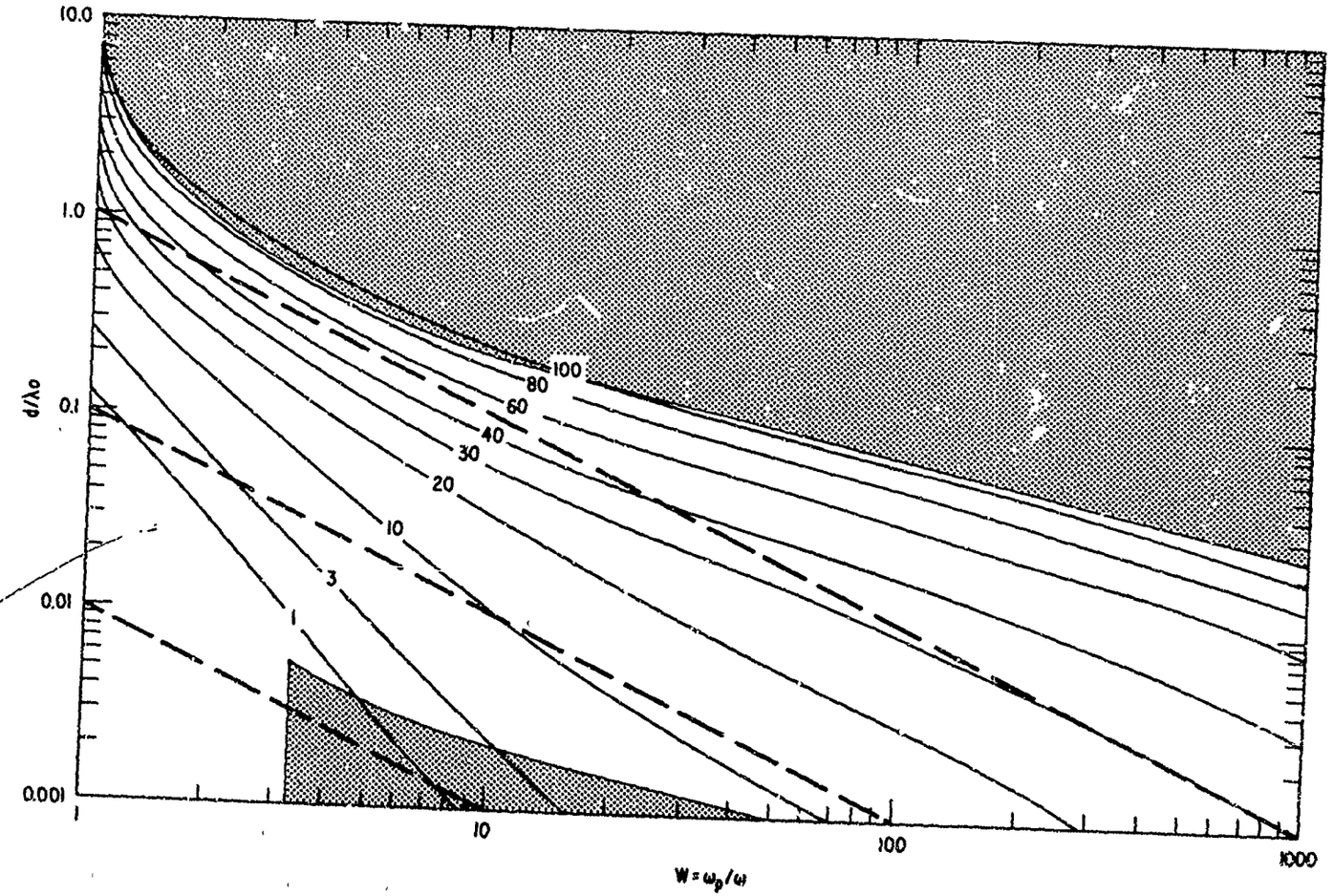

Fig. 3. Plasma Slab Attenuation Contours ($\nu/\omega_p = 0.1$)

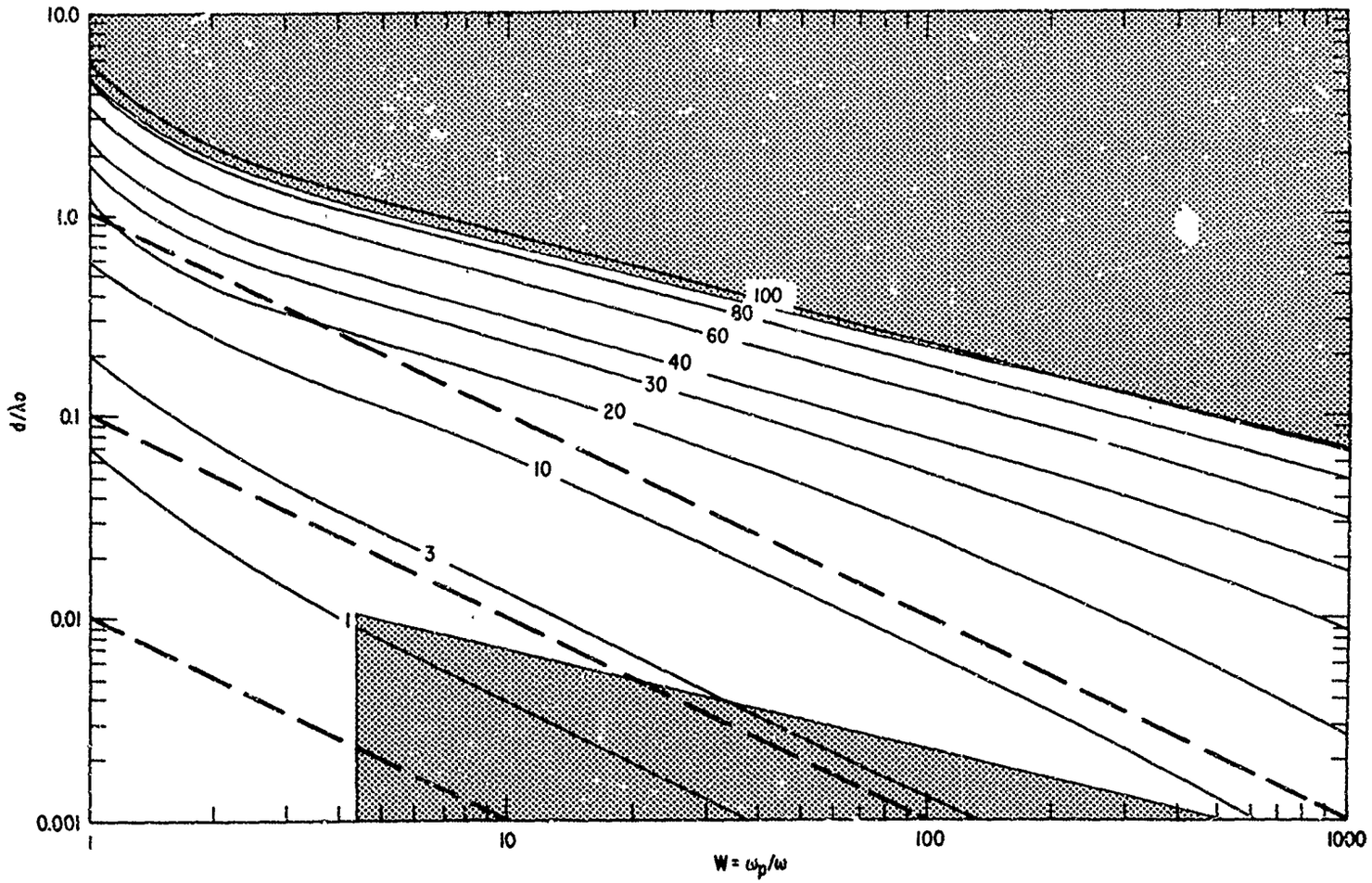

Fig. 4. Plasma Slab Attenuation Contours ($\nu/\omega_p = 1.0$)

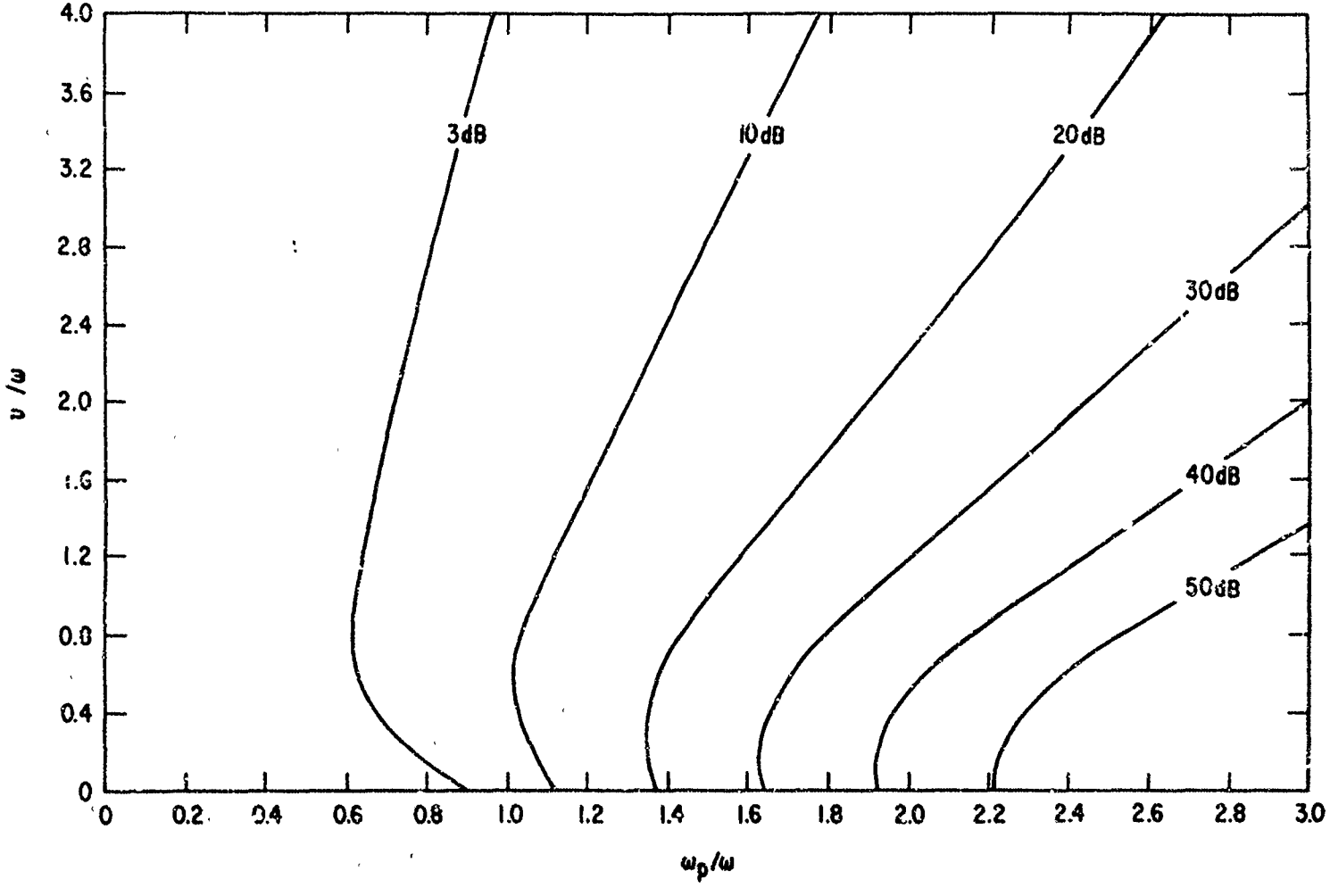

Fig. 5. Dependence of Plasma Slab Attenuation on Electron Density and Collision Frequency ($d/\lambda_o = 0.5$)

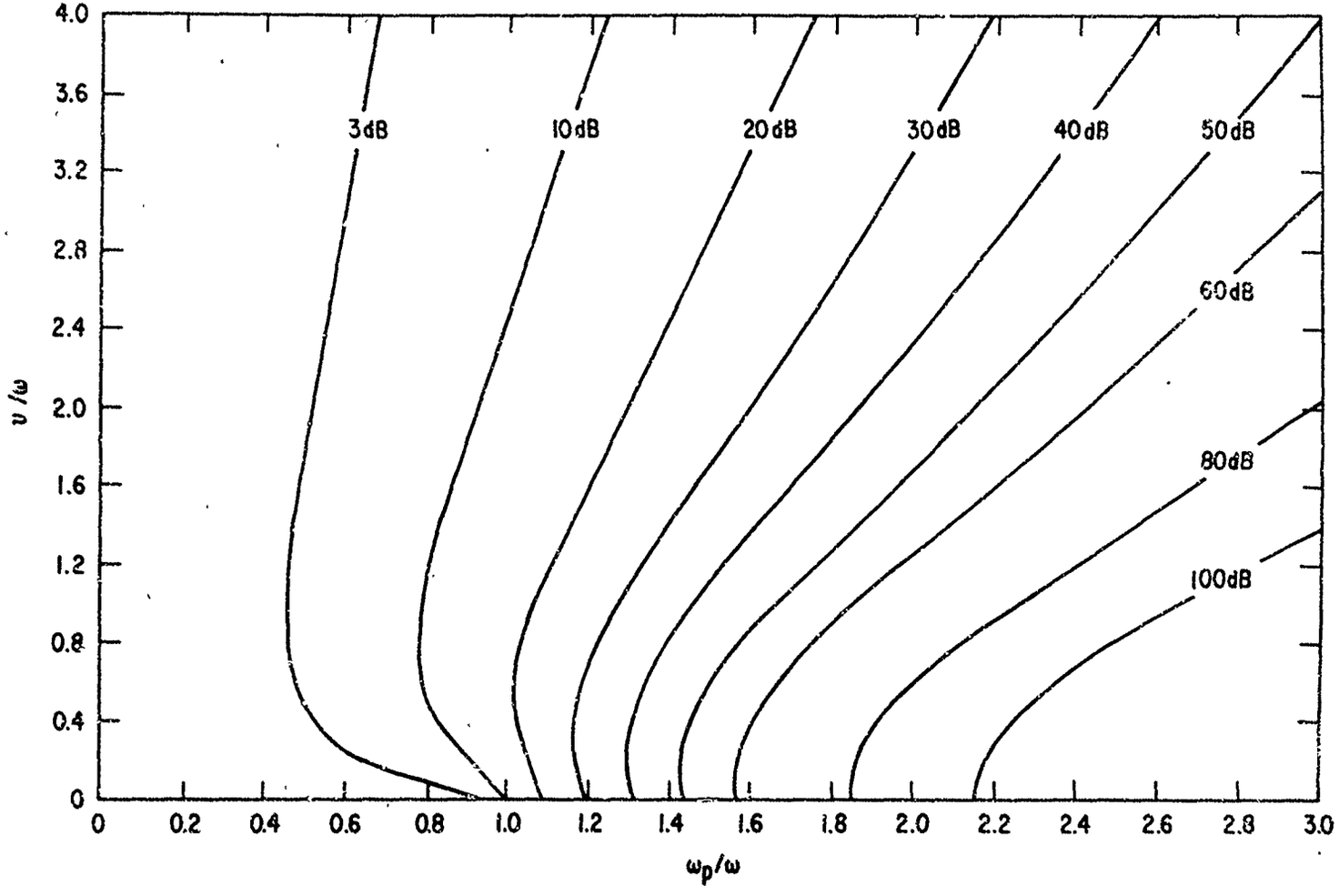

Fig. 6. Dependence of Plasma Slab Attenuation on Electron Density and Collision Frequency ($d/\lambda_o = 1.0$)

For lossy plasmas, the attenuation no longer decreases with increasing signal frequency. Typically, the attenuation approaches an asymptotic value at low frequency and at first increases with increasing frequency. As the signal frequency approaches the plasma frequency, the attenuation goes through a maximum and begins to decrease with increasing signal frequency.

The shaded areas in Figs. 2 through 4 represent the regions where the slab computations can be approximated by asymptotic solutions. In the lower region, jump conditions (Ref. 1) can be used to approximate the plasma layer. In other words, when the plasma thickness is much smaller than an attenuation length, the reflection and transmission characteristics are governed by an equivalent surface impedance or induced surface current density. The transmission coefficient can be approximated by

$$t \simeq \frac{1}{1 + Z_o/2Z_s}$$

where Z_s/Z_o is the normalized plasma surface impedance and

$$Z_s/Z_o = \frac{1}{W^2 k_o d} (V + j)$$

When the plasma thickness is much greater than an attenuation length (upper shaded region), the signal attenuation can be approximated by

$$t \simeq \left[\frac{4\, k_p/k_o}{(k_p/k_o + 1)^2} \right] e^{-\alpha_p d} \qquad (3)$$

where α_p is the plasma attenuation constant. The first term in Eq. (3) is equivalent to a reflecting loss; the exponential term is equal to the amount of attenuation a ray encounters in one pass through the plasma layer.

Figures 5 and 6 illustrate the effects of collisions on the signal attenuation for a plasma thickness of $0.5\,\lambda_o$ and $1.0\,\lambda_o$, respectively. These figures show that collisional effects tend to reduce signal attenuation except in the region near the plasma frequency ($W \sim 1$).

B. PLASMA-ANTENNA INTERACTIONS

The detrimental effects on rf communications produced by reentry plasma sheaths (such as antenna pattern distortion, signal attenuation, and antenna impedance changes) have been discussed in the literature (Refs. 1 - 6). Due to the high attenuation of the fields within the reentry plasma sheath, the antenna pattern distortions produced by multiple reflection inside the sheath are relatively unimportant. If the surrounding plasma is separated from the metallic skin of the vehicle by a dielectric ablating material such as Teflon, the resulting radiation patterns may be distorted due to the ducting of rf energy between the plasma and vehicle; however, when the dielectric spacing is much smaller than a wavelength these effects tend to be relatively small compared with signal absorption in the plasma and with antenna impedance effects.

When the plasma sheath is in contact with the conducting surface of the vehicle and the thickness of the sheath is large compared with an attenuation length, the following infinite slot (see Fig. 7) analysis demonstrates the correspondence between the plane wave theory and

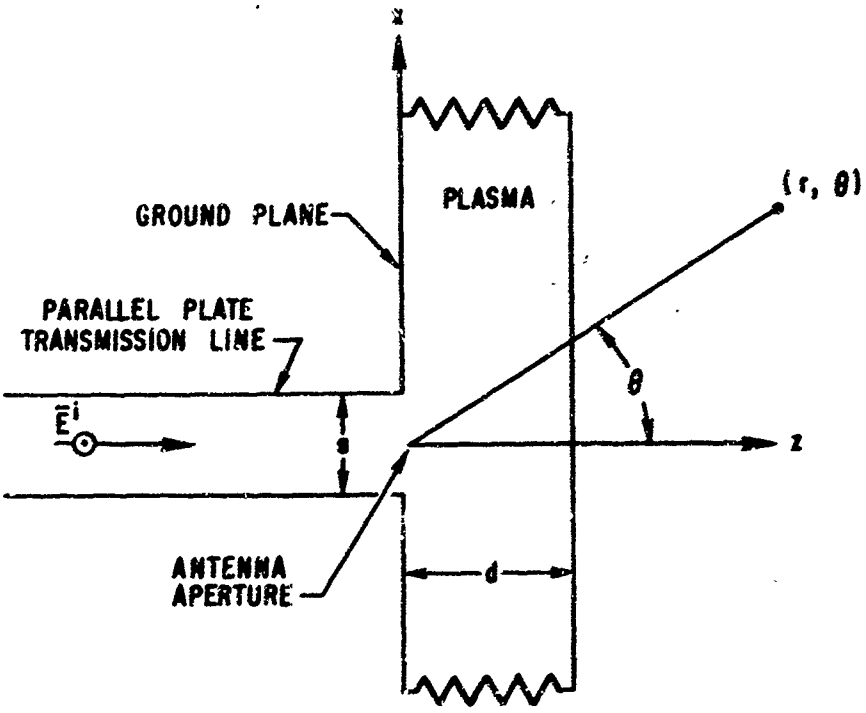

Fig. 7. Slot Antenna Geometry

the antenna formulation. The normalized far-field radiation pattern can be expressed as follows (Ref. 7):

$$E_y(\theta) = E_{ap}\left[\frac{\left(\frac{a}{\pi}\right)^2 \cos\theta \cos\left(\frac{k_o a \sin\theta}{2}\right)}{\left(\frac{\pi}{a}\right)^2 - (k_o \sin\theta)^2}\right]\left[\frac{1}{\cos k_{pz} d + j\frac{k_{oz}}{k_{pz}} \sin k_{pz} d}\right] \quad (4)$$

when the slot is excited by the dominant TE mode (co-sinusoidal aperture distribution), and where a is the aperture width, E_{ap} is the complex amplitude of the electric field across the aperture, θ is the angle of observation with respect to the z axis, the subscript z denotes the z component of the respective wavenumbers, and where

$$k_{oz} = k_o \cos\theta$$

$$k_{pz} = k_o \left[k_p^2/k_o^2 - \sin^2\theta\right]^{1/2}$$

$$k_p^2/k_o^2 = 1 - \frac{W^2}{1+jV}$$

The term E_{ap} accounts for changes in the driving point admittance of the slot, the second term depicts the normal distribution of electromagnetic energy in the far field in the absence of plasma, and the last term expresses the effects of plasma on the radiation. The magnitude of the last term in Eq. (4) approaches unity as the plasma is removed. In order to evaluate the change in signal level caused by the plasma layer the following ratio is determined (Ref. 8)

$$g(\theta) = \frac{\left|E_y^p(\theta, r)\right|^2}{\left|E_y^o(\theta, r)\right|^2} \quad (5)$$

where the superscripts p and o denote the conditions with and without the sheath, respectively. Substitution of Eq. (4) into Eq. (5) yields

$$g(\theta) = \frac{|E_{ap}^{p}|^2}{|E_{ap}^{o}|^2} \left| \frac{1}{\cos k_{pz} d + j \frac{k_{oz}}{k_{pz}} \sin k_{pz} d} \right|^2 \tag{6}$$

The gain function $g(\theta)$ is evaluated for a constant input power to the radiating system, with the source assumed to be well isolated from the aperture, so that changes in the driving point admittance of the aperture have no effect on the frequency or output of the source. Equation (6) therefore represents the total plasma attenuation.

The amplitude of the electric field developed in the aperture in the absence of the plasma E_{ap}^{o} can be expressed (neglecting the evanescent modes) as

$$E_{ap}^{o} = E_{o}^{i} (1 + \hat{r}_{o}) \tag{7}$$

where E_{o}^{i} is the incident electric field in the feed waveguide and $\hat{r}_{o}$ is the complex voltage reflection coefficient for the aperture radiating into free space. In a similar manner the electric field in the presence of the plasma sheath can be expressed as

$$E_{ap}^{p} = E_{o}^{i} (1 + \hat{r}_{p}) \tag{8}$$

where $\hat{r}_{p}$ is the complex voltage reflection coefficient of the aperture radiating into the plasma environment.

Combining Eqs. (6), (7), and (8) and normalizing the gain function yields

$$G(\theta) = g(\theta) \left| 1 + \hat{\Gamma}_o \right|^2$$

$$G(\theta) = \left| 1 + \hat{\Gamma}_p \right|^2 \left| \frac{1}{\cos k_{pz} d + j \frac{k_{oz}}{k_{pz}} \sin k_{pz} d} \right|^2 \qquad (9)$$

When the plasma is highly overdense, i.e., $|k_p| \gg k_o$, and the slab is thick compared with a plasma attenuation length, i.e., $\mathrm{Im}(k_p d) \gg 1$, the following simplifications can be introduced:

$$G(\theta) \cong 4 \left| 1 + \hat{\Gamma}_p \right|^2 \exp\left[-2\mathrm{Im}(k_p d)\right] \qquad (10)$$

Furthermore, the aperture reflection coefficient $\hat{\Gamma}_p$ is related to the driving point admittance of the slot Y_{ap}^p which radiates into the plasma environment

$$\hat{\Gamma}_p = \frac{1 - Y_{ap}^p / Y_g}{1 + Y_{ap}^p / Y_g} \qquad (11)$$

The driving point admittance for an infinite slot antenna radiating into a plasma environment can be approximated by (Ref. 9)

$$Y_{ap}^p \cong \frac{k_p}{k_o} \left(\frac{\epsilon_o}{\mu_o} \right)^{1/2} \qquad (12)$$

when the plasma region is assumed to be highly overdense and semi-infinite in extent. Equation (12) is also applicable for a plasma

slab geometry, provided the plasma is lossy and the slab thickness is much greater than an attenuation length. In other words, the reflections occurring at the aperture interface tend to be insensitive to the plasma thickness and are approximated by results obtained for a slot antenna radiating into a plasma half space.

The ratio $(\epsilon_o/\mu_o)^{1/2}/Y_g$ is related to the equivalent angle of incidence γ of the two plane waves reflecting off the walls of the waveguide which comprise the dominant TE mode (Ref. 10)

$$Y_g/(\epsilon_o/\mu_o)^{1/2} = \cos\gamma \tag{13}$$

Substituting Eqs. (11), (12) and (13) into Eq. (10) yields the approximate expression for the overall degradation by the highly reflecting and absorbing plasma sheath of the rf signal emanating from a slot antenna:

$$G(\theta) \cong \left|\frac{4\,k_o\cos\gamma}{k_p}\right|^2 \exp\left[-2\,\mathrm{Im}(k_p d)\right] \tag{14}$$

The plasma slab transmission coefficient for a plane wave incident upon the slab at an angle γ, with the electric field polarized in the plane of the plasma interface, is (Ref. 1)

$$t = \frac{E^t}{E^i} = \frac{e^{+jk_{oz}d}}{\cos k_{pz}d + (j/2)\,(k_{pz}/k_{oz} + k_{oz}/k_{pz})\sin k_{pz}d} \tag{15}$$

Under the assumptions used in Eq. (14), namely $\mathrm{Im}\, k_p d \gg 1$, $|k_p| \gg k_o$, the plane wave transmission coefficient reduces to

$$|t|^2 = \left| 4 \frac{k_o \cos\gamma}{k_p} \right|^2 \exp\left[-2\mathrm{Im}(k_p d)\right]$$

which is the same result obtained from the slot antenna analysis, i.e.,

$$G(\theta) = |t|^2$$

Thus the net effect produced by the thick overdense plasma sheath on the rf radiation emanating from the slot is an overall attenuation of the signal with no redistribution of the far-field radiation pattern other than what would be predicted from plane wave theory.

C. INHOMOGENEOUS PLASMA PROPERTIES

The equivalent dielectric properties of the plasma slab were assumed to be homogeneous in order to simplify the computations. This assumption seems to yield more than adequate numerical results for most reentry system analyses. For example, where the plasma sheath is highly overdense and thin compared with a plasma attenuation length (conditions which are satisfied in many slender-body reentry vehicle configurations), the plane wave reflection and transmission coefficients are functions of the integrated plasma conductivity and are independent of the electron density distribution. In other words, the signal attenuation through a plasma layer is governed by the equivalent surface current or surface impedance, which can be approximated by means of a homogeneous plasma slab.

When the thickness of the overdense plasma is smaller than a free space wavelength and is of the order of or greater than a plasma attenuation length (conditions which are normally characteristic of severe reentry blackout problems such as are observed in lifting reentry), the plasma reflection and transmission coefficients may be affected by the inhomogeneities within the reentry plasma sheath. Typical errors in the transmission coefficient attributed to the neglect of the inhomogeneities are illustrated in Fig. 8 as a function of both arbitrary polarization and angle of incidence.

The equivalent homogeneous plasma slab used to approximate the inhomogeneous case was characterized by a plasma frequency corresponding to the peak electron density in the sheath profile, a thickness which conserves the integrated electron density, and an average collision frequency. The homogeneous attenuation calculations were computed assuming a plane wave model for an arbitrary angle of incidence (Ref. 1) and results were compared with the inhomogeneous numerical results obtained by G. Bein (Ref. 11). The electron density distribution used by Bein is shown in Fig. 9, and is typical for a boundary layer plasma sheath. The peak electron density is 4×10^{11} electrons per cm^3 and the equivalent collision frequency is about 2×10^8 collisions per second. The equivalent homogeneous slab is also sketched in Fig. 9 and has a thickness of 0.5 cm. The signal frequency is 244.3 MHz. The results illustrated in Fig. 8 demonstrate that the errors associated with the homogeneous slab are well within reasonable tolerances compared with those signal attenuation errors associated with the estimation of electron density. For example, an error of a factor of two in electron density would result in a 6 dB error in the attenuation level, whereas the homogeneous assumption introduces an error of less than 2 dB.

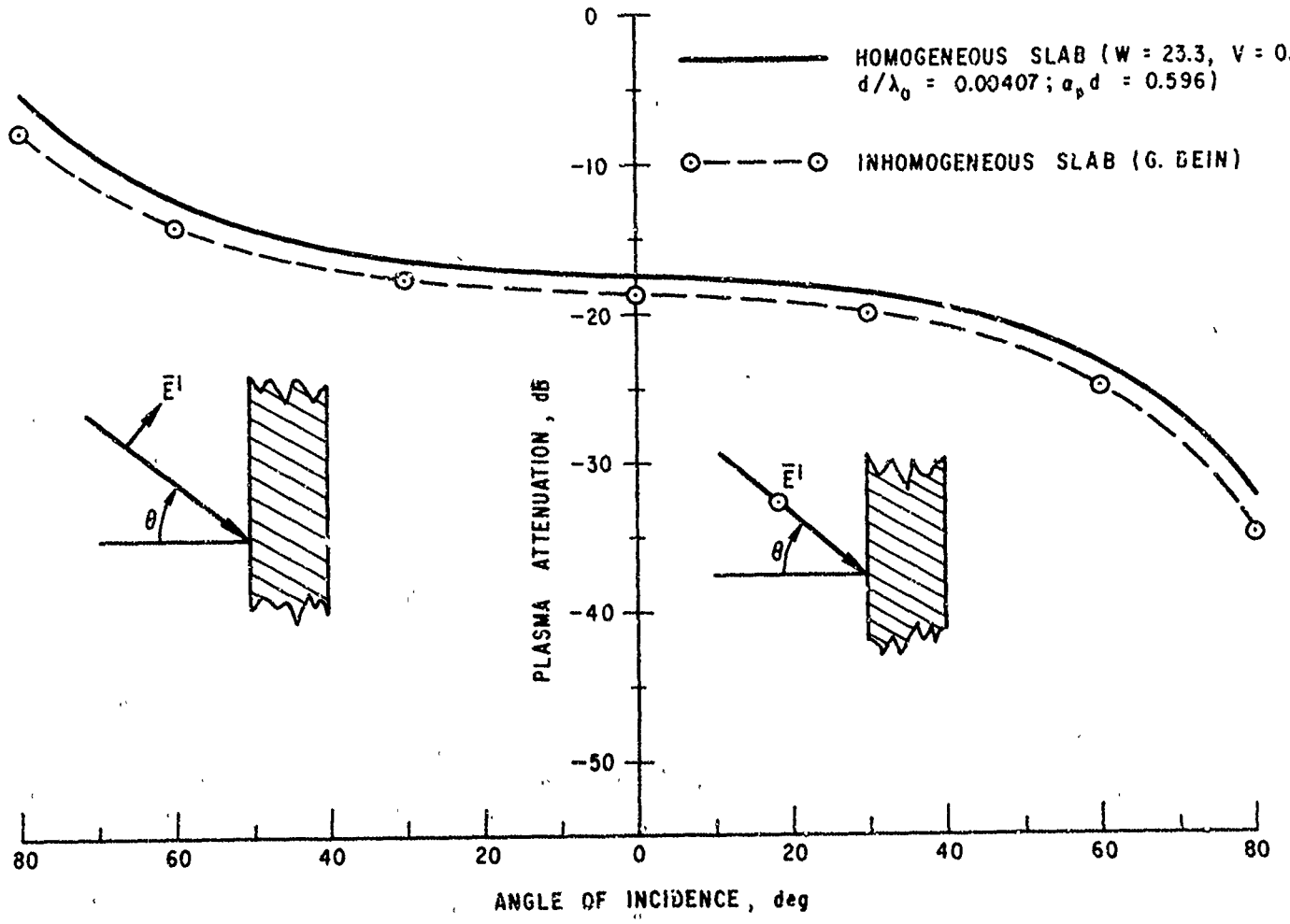

Fig. 8. Inhomogeneous Plasma Slab Attenuation

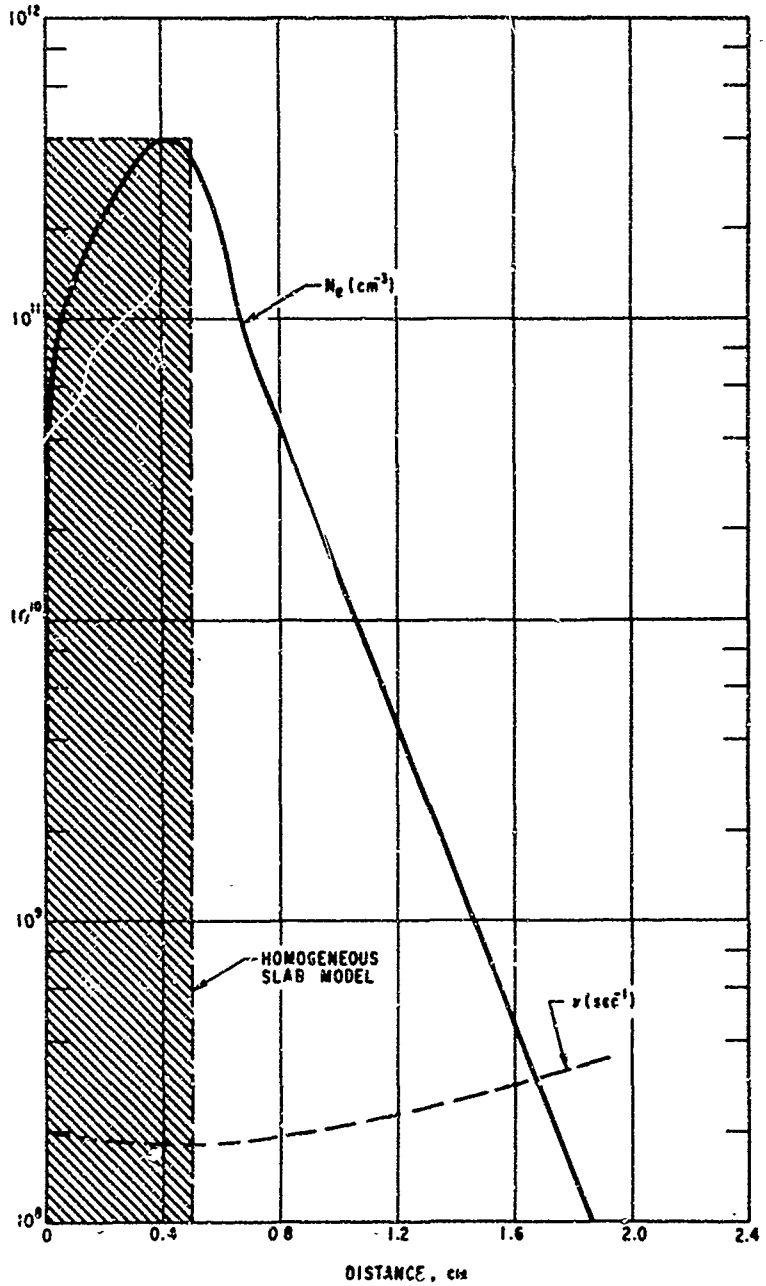

Fig. 9. Plasma Characteristics Used in Inhomogeneous Attenuation Computation

When the reentry plasma sheath has an equivalent thickness which is of the order of a free space wavelength, the reflection coefficient is more strongly dependent upon the inhomogeneous properties of the plasma; however, when the reentry plasma conditions produce severe signal blackout the dominant attenuation mechanism is absorption. Several examples of half-wavelength plasma sheaths characterized by a triangular electron density distribution are given in Volume I of this report. The results were then compared with an equivalent homogeneous slab model. The comparison illustrated that the homogeneous slab computation adequately approximated the signal attenuation produced by the inhomogeneous sheath. Typical errors where of the order of 1 to 2 dB in a total attenuation of -20 dB.

The preceding sample computations illustrate that plasma inhomogeneites introduce small deviations from the signal attenuation results obtainable from a homogeneous plasma slab model. The plasma characteristics used in the analysis were not intended to represent exact lifting reentry conditions, but were chosen to depict regions where departures from plane wave homogeneous results would be most prevalent. These results demonstrate that for most reentry conditions, ranging from slender body to severe lifting reentry configurations, the surrounding plasma sheath can be approximated by an equivalent homogeneous plasma slab.

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APPENDIX

PLANE WAVE ATTENUATION TABLES

NOTE ON USING TABLES

NOMENCLATURE

D/LAM.O = d/λ_o

W = ω_p/ω

VLAM.O/W**2D = $\nu\lambda_o/W^2d$

0.1000 E - 05 denotes 0.1×10^{-5}

0.1000 E 05 denotes $0.1 \times 10^{+5}$

GUIDE TO VALUES OF VARIABLES

A. Pages A-3 through A-22

1. $\omega_p/\omega \rightarrow 0.8$ to 2.0 (complete range each page)
2. $\nu\lambda_o/W^2d \rightarrow 10^{-3}$ to 1 (one value per page)
3. $d/\lambda_o \rightarrow 0.1$ to 3.5 (complete range each page)

B. Pages A-23 through A-42

1. $\omega_p/\omega \rightarrow 2.0$ to 50.0 (complete range each page)
2. $\nu\lambda_o/W^2d \rightarrow 10^{-3}$ to 1 (one value per page)
3. $d/\lambda_o \rightarrow 10^{-4}$ to 2 (complete range each page)

C. Pages A-43 through A-62

1. $\omega_p/\omega \rightarrow 50$ to 800 (complete range each page)
2. $\nu\lambda_o/W^2d \rightarrow 10^{-4}$ to 1 (one value per page)
3. $d/\lambda_o \rightarrow 10^{-5}$ to 1.5 (complete range each page)

-20. LOG /T/ VLAM.0/W**2D= 0.100000E-02 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.1	3.8	4.5	5.2
0.2000E 00	0.5	0.9	1.4	2.2	3.1	4.2	5.4	6.7	8.2	9.6	11.1	12.7	14.2
0.3000E 00	0.9	1.7	2.8	4.2	6.1	8.1	10.2	12.5	14.7	17.0	19.2	21.4	23.6
0.4000E 00	1.1	2.3	4.1	6.6	9.4	12.4	15.4	18.5	21.5	24.4	27.4	30.2	33.0
0.5000E 00	1.0	2.6	5.4	9.0	12.9	16.8	20.7	24.6	28.3	31.9	35.5	39.0	42.5
0.6000E 00	0.7	2.7	6.6	11.5	16.5	21.4	26.1	30.7	35.1	39.4	43.7	47.9	52.0
0.7000E 00	0.3	2.5	7.7	13.9	20.1	25.9	31.4	36.8	41.9	46.9	51.9	56.7	61.4
0.8000E 00	0.0	2.0	8.7	16.4	23.7	30.4	36.8	42.9	48.7	54.4	60.0	65.5	70.9
0.9000E 00	0.1	1.3	9.6	18.9	27.3	34.9	42.1	49.0	55.6	62.0	68.2	74.3	80.3
0.1000E 01	0.4	0.6	10.4	21.4	30.9	39.5	47.5	55.1	62.4	69.5	76.4	83.1	89.8
0.1100E 01	0.8	0.1	11.2	23.9	34.5	44.0	52.8	61.2	69.2	77.0	84.5	91.9	99.2
0.1200E 01	1.1	0.2	11.9	26.4	38.2	48.5	58.2	67.3	76.0	84.5	92.7	100.8	108.7
0.1300E 01	1.1	0.7	12.5	28.9	41.8	53.1	63.5	73.4	82.8	92.0	100.9	109.6	118.1
0.1400E 01	0.8	1.4	13.2	31.4	45.4	57.6	68.9	79.5	89.6	99.5	109.0	118.4	127.6
0.1500E 01	0.5	2.1	13.7	33.9	49.0	62.2	74.2	85.6	96.5	107.0	117.2	127.2	137.0
0.1600E 01	0.1	2.8	14.3	36.4	52.6	66.7	79.6	91.7	103.3	114.5	125.4	136.0	146.5
0.1700E 01	0.1	2.8	14.8	38.9	56.3	71.2	84.9	97.8	110.1	122.0	133.6	144.9	156.0
0.1800E 01	0.3	2.7	15.3	41.5	59.9	75.8	90.3	103.9	116.9	129.5	141.7	153.7	165.4
0.1900E 01	0.7	2.4	15.8	44.0	63.5	80.3	95.6	110.0	123.7	[illegible].0	149.9	162.5	174.9
0.2000E 01	1.1	1.8	16.2	46.5	67.1	84.8	101.0	116.1	130.6	[illegible].5	158.1	171.3	184.3
0.2100E 01	1.2	1.1	16.6	49.0	70.8	89.4	106.3	122.2	137.4	152.0	166.2	180.1	193.8
0.2200E 01	1.0	0.5	17.1	51.5	74.4	93.9	111.7	128.3	144.2	159.5	174.4	189.0	203.2
0.2300E 01	0.6	0.3	17.5	54.0	78.0	98.4	117.0	134.4	151.0	167.0	182.6	197.8	212.7
0.2400E 01	0.3	0.6	17.8	56.5	81.6	103.0	122.4	140.5	157.8	174.5	190.7	206.6	222.1
0.2500E 01	0.1	1.2	18.2	59.0	85.2	107.5	127.7	146.6	164.6	182.0	198.9	215.4	231.6
0.2600E 01	0.3	1.9	18.5	61.5	88.9	112.0	133.1	152.7	171.5	189.5	207.1	224.2	241.0
0.2700E 01	0.7	2.5	18.9	64.0	92.5	116.6	138.4	158.8	178.3	197.0	215.2	233.0	250.5
0.2800E 01	1.0	2.9	19.3	66.5	96.1	121.1	143.8	164.9	185.1	204.5	223.4	241.9	259.9
0.2900E 01	1.2	2.9	19.6	69.0	99.7	125.6	149.1	171.0	191.9	212.0	231.6	250.7	269.4
0.3000E 01	1.1	2.7	19.9	71.5	103.4	130.2	154.4	177.1	198.7	219.5	239.8	259.5	278.9
0.3100E 01	0.9	2.3	20.2	74.0	107.0	134.7	159.8	183.2	205.5	227.0	247.9	268.3	288.3
0.3200E 01	0.5	1.7	20.5	76.5	110.6	139.2	165.1	189.3	212.4	234.6	256.1	277.1	297.8
0.3300E 01	0.2	1.1	20.8	79.0	114.2	143.8	170.5	195.4	219.2	242.1	264.3	285.9	307.2
0.3400E 01	0.3	0.7	21.1	81.5	117.8	148.3	175.8	201.5	226.0	249.6	272.4	294.8	316.7
0.3500E 01	0.6	0.8	21.4	84.0	121.5	152.9	181.2	207.6	232.8	257.1	280.6	303.6	326.1

-20. LOG /T/ VLAM.0/W**2D= 0.100000E-01 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.5	3.1	3.8	4.5	5.2
0.2000E 00	0.5	0.9	1.5	2.2	3.1	4.2	5.4	6.8	8.2	9.7	11.2	12.7	14.2
0.3000E 00	0.9	1.7	2.8	4.3	6.1	8.1	10.3	12.5	14.8	17.1	19.2	21.5	23.7
0.4000E 00	1.1	2.3	4.2	6.6	9.5	12.5	15.6	18.5	21.5	24.5	27.4	30.3	33.1
0.5000E 00	1.0	2.7	5.5	9.1	13.0	16.9	20.8	24.6	28.4	32.0	35.6	39.1	42.6
0.6000E 00	0.7	2.8	6.7	11.6	16.6	21.4	26.2	30.7	35.2	39.5	43.8	47.9	52.0
0.7000E 00	0.4	2.6	7.8	14.1	20.2	26.0	31.5	36.9	42.0	47.0	52.0	56.8	61.5
0.8000E 00	0.2	2.2	8.9	16.6	23.8	30.5	36.9	43.0	48.9	54.6	60.1	65.6	71.0
0.9000E 00	0.2	1.6	9.8	19.1	27.4	35.1	42.3	49.1	55.7	62.1	68.3	74.4	80.4
0.1000E 01	0.6	1.1	10.7	21.6	31.1	39.6	47.6	55.2	62.5	69.6	76.5	83.3	89.9
0.1100E 01	1.0	0.7	11.5	24.2	34.7	44.2	53.0	61.3	69.3	77.1	84.7	92.1	99.3
0.1200E 01	1.3	0.8	12.3	26.7	38.4	48.7	58.3	67.4	76.2	84.6	92.8	100.9	108.8
0.1300E 01	1.3	1.4	13.1	29.2	42.0	53.3	63.7	73.5	83.0	92.1	101.0	109.7	118.2
0.1400E 01	1.2	2.1	13.8	31.7	45.6	57.8	69.1	79.7	89.8	99.6	109.2	118.5	127.7
0.1500E 01	0.9	2.8	14.5	34.2	49.3	62.4	74.4	85.8	96.6	107.1	117.3	127.3	137.1
0.1600E 01	0.6	3.3	15.2	36.8	52.9	66.9	79.8	91.9	103.4	114.6	125.5	136.1	146.5
0.1700E 01	0.6	3.6	15.8	39.3	56.5	71.5	85.1	98.0	110.3	122.1	133.6	144.9	155.9
0.1800E 01	0.9	3.7	16.5	41.8	60.2	76.0	90.5	104.1	117.1	129.6	141.8	153.7	165.3
0.1900E 01	1.3	3.5	17.1	44.3	63.8	80.5	95.8	110.2	123.9	137.1	149.9	162.5	174.7
0.2000E 01	1.7	3.2	17.8	46.9	67.4	85.1	101.2	116.3	130.7	144.6	158.1	171.2	184.1
0.2100E 01	1.8	2.9	18.4	49.4	71.1	89.6	106.5	122.4	137.5	152.1	166.2	180.0	193.5
0.2200E 01	1.8	2.7	19.1	51.9	74.7	94.2	111.9	128.5	144.3	159.6	174.3	188.8	202.9
0.2300E 01	1.5	2.8	19.8	54.5	78.3	98.7	117.2	134.6	151.1	167.0	182.5	197.5	212.3
0.2400E 01	1.3	3.1	20.4	57.0	82.0	103.3	122.6	140.7	157.9	174.5	190.6	206.3	221.6
0.2500E 01	1.3	3.7	21.2	59.5	85.6	107.8	127.9	146.8	164.7	182.0	198.7	215.0	231.0
0.2600E 01	1.5	4.3	21.9	62.0	89.2	112.3	133.3	152.9	171.5	189.4	206.8	223.8	240.3
0.2700E 01	1.9	4.8	22.7	64.6	92.9	116.9	138.6	158.9	178.3	196.9	214.9	232.5	249.7
0.2800E 01	2.3	5.2	23.4	67.1	96.5	121.4	144.0	165.0	185.1	204.3	223.0	241.2	259.0
0.2900E 01	2.5	5.5	24.3	69.6	100.1	125.9	149.3	171.1	191.8	211.8	231.1	249.9	268.3
0.3000E 01	2.5	5.6	25.1	72.2	103.8	130.5	154.6	177.2	198.6	219.2	239.2	258.6	277.6
0.3100E 01	2.4	5.6	26.0	74.7	107.4	135.0	160.0	183.3	205.4	226.7	247.3	267.3	286.9
0.3200E 01	2.3	5.5	26.8	77.2	111.0	139.5	165.3	189.3	212.2	234.1	255.3	276.0	296.1
0.3300E 01	2.3	5.6	27.8	79.8	114.7	144.1	170.6	195.4	218.9	241.5	263.4	284.7	305.4
0.3400E 01	2.4	5.7	28.7	82.3	118.3	148.6	176.0	201.5	225.7	248.9	271.4	293.3	314.6
0.3500E 01	2.7	6.0	29.6	84.8	121.9	153.1	181.3	207.5	232.4	256.4	279.5	302.0	323.9

-20. LOG /T/ VLAM.O/W**2D= 0.200000E-01 Y= 0.

D/LAM.O W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.6	3.2	3.8	4.5	5.2
0.2000E 00	0.6	0.9	1.5	2.2	3.1	4.2	5.4	6.8	8.2	9.7	11.2	12.7	14.3
0.3000E 00	0.9	1.7	2.8	4.3	6.1	8.2	10.3	12.6	14.8	17.1	19.3	21.5	23.7
0.4000E 00	1.1	2.3	4.2	6.7	9.5	12.5	15.6	18.6	21.8	24.6	27.5	30.4	33.2
0.5000E 00	1.1	2.8	5.6	9.2	13.1	17.0	20.9	24.7	28.4	32.1	35.7	39.2	42.7
0.6000E 00	0.8	2.9	6.8	11.7	16.7	21.5	26.3	30.8	35.3	39.6	43.9	48.0	52.1
0.7000E 00	0.5	2.8	8.0	14.2	20.3	26.1	31.6	37.0	42.1	47.1	52.0	56.9	61.6
0.8000E 00	0.3	2.5	9.1	16.7	23.9	30.7	37.0	43.1	49.0	54.7	60.2	65.7	71.0
0.9000E 00	0.4	2.0	10.1	19.3	27.6	35.2	42.4	49.2	55.8	62.2	68.4	74.5	80.5
0.1000E 01	0.8	1.6	11.1	21.8	31.3	39.8	47.8	55.3	62.6	69.7	76.6	83.3	89.9
0.1100E 01	1.2	1.4	12.0	24.4	34.9	44.3	53.1	61.4	69.4	77.2	84.7	92.1	99.3
0.1200E 01	1.5	1.6	12.9	26.9	38.6	48.9	58.5	67.6	76.3	84.7	92.8	100.8	108.7
0.1300E 01	1.6	2.1	13.7	29.5	42.2	53.5	63.8	73.7	83.1	92.1	101.0	109.6	118.0
0.1400E 01	1.5	2.8	14.5	32.0	45.9	58.0	69.2	79.8	89.9	99.6	109.1	118.3	127.4
0.1500E 01	1.3	3.6	15.4	34.6	49.5	62.6	74.6	85.9	96.7	107.1	117.2	127.1	136.7
0.1600E 01	1.1	4.1	16.2	37.1	53.2	67.1	79.9	92.0	103.5	114.5	125.3	135.8	146.0
0.1700E 01	1.2	4.5	17.0	39.7	56.8	71.7	85.3	98.0	110.2	122.0	133.4	144.4	155.3
0.1800E 01	1.5	4.7	17.9	42.2	60.4	76.2	90.6	104.1	117.0	129.4	141.4	153.1	164.5
0.1900E 01	2.0	4.8	18.8	44.8	64.1	80.7	95.9	110.2	123.8	136.8	149.5	161.7	173.7
0.2000E 01	2.3	4.8	19.7	47.3	67.7	85.3	101.3	116.3	130.5	144.2	157.5	170.4	182.9
0.2100E 01	2.6	4.8	20.6	49.9	71.4	89.8	106.6	122.3	137.3	151.6	165.5	179.0	192.1
0.2200E 01	2.6	4.9	21.6	52.5	75.0	94.3	111.9	128.4	144.0	159.0	173.5	187.5	201.2
0.2300E 01	2.5	5.2	22.6	55.0	78.7	98.9	117.2	134.4	150.7	166.3	181.4	196.1	210.3
0.2400E 01	2.5	5.7	23.7	57.6	82.3	103.4	122.5	140.4	157.4	173.7	189.4	204.6	219.3
0.2500E 01	2.6	6.3	24.8	60.1	85.9	107.9	127.8	146.5	164.1	181.0	197.3	213.1	228.4
0.2600E 01	2.8	6.9	25.9	62.7	89.6	112.4	133.1	152.5	170.8	188.3	205.2	221.5	237.4
0.2700E 01	3.2	7.5	27.0	65.3	93.2	116.9	138.4	158.5	177.5	195.6	213.1	230.0	246.3
0.2800E 01	3.6	8.0	28.2	67.8	96.8	121.5	143.7	164.5	184.1	202.9	220.9	238.4	255.2
0.2900E 01	3.9	8.5	29.4	70.4	100.5	126.0	149.0	170.5	190.8	210.1	228.8	246.7	264.1
0.3000E 01	4.1	8.9	30.7	73.0	104.1	130.5	154.3	176.4	197.4	217.4	236.6	255.1	272.9
0.3100E 01	4.2	9.2	31.9	75.6	107.7	135.0	159.5	182.4	204.0	224.6	244.4	263.4	281.7
0.3200E 01	4.2	9.6	33.2	78.1	111.3	139.4	164.8	188.4	210.6	231.8	252.1	271.6	290.4
0.3300E 01	4.4	10.1	34.5	80.7	115.0	143.9	170.1	194.3	217.2	239.0	259.8	279.9	299.1
0.3400E 01	4.7	10.6	35.9	83.3	118.6	148.4	175.3	200.2	223.7	246.1	267.5	288.0	307.8
0.3500E 01	5.0	11.1	37.2	85.9	122.2	152.9	180.5	206.1	230.3	253.2	275.2	296.2	316.4

-20. LOG /T/ VLAM.O/W**20= 0.300000E-01 Y= 0.

D/LAM.O \ W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.0	2.6	3.2	3.8	4.5	5.3
0.2000E 00	0.6	0.9	1.5	2.2	3.1	4.2	5.5	6.8	8.3	9.7	11.3	12.9	14.3
0.3000E 00	0.9	1.7	2.8	4.4	6.2	8.2	10.4	12.6	14.9	17.1	19.4	21.6	23.8
0.4000E 00	1.2	2.4	4.3	6.7	9.6	12.6	15.6	18.7	21.7	24.6	27.5	30.4	33.2
0.5000E 00	1.1	2.8	5.6	9.2	13.1	17.1	21.0	24.8	28.5	32.2	35.7	39.3	42.7
0.6000E 00	0.9	3.0	6.9	11.8	16.8	21.6	26.4	30.9	35.4	39.7	43.9	48.1	52.2
0.7000E 00	0.6	3.0	8.2	14.3	20.4	26.2	31.7	37.1	42.2	47.2	52.1	56.9	61.6
0.8000E 00	0.4	2.7	9.3	16.9	24.1	30.8	37.1	43.2	48.9	54.7	60.7	66.7	71.0
0.9000E 00	0.6	2.4	10.4	19.5	27.7	35.4	42.5	49.?	55.9	62.2	68 .	74.5	80.4
0.1000E 01	1.0	2.1	11.4	22.1	31.4	39.9	47.9	5?.4	62.7	69.7	7?.5	83.2	89.7
0.1100E 01	1.4	2.0	12.4	24.6	35.1	44.5	53.2	?1.5	69.5	77.2	?4.6	91.9	99.0
0.1200E 01	1.8	2.3	13.4	27.2	38.7	49.0	58.6	67.6	76.3	84.6	92.7	100.6	108.3
0.1300E 01	1.9	2.9	14.3	29.8	42.4	53.6	63.?	73.7	83.0	92.0	100.8	109.3	117.5
0.1400E 01	1.9	3.6	15.3	32.3	46.1	58.2	69.3	79.8	89.8	99.5	108.8	117.9	126.7
0.1500E 01	1.7	4.4	16.2	34.9	49.7	62.7	?4.6	85.8	96.5	106.8	116.8	126.5	135.8
0.1600E 01	1.7	5.0	17.2	37.5	53.4	67.2	80.0	91.9	103.3	114.2	124.8	1 5.0	144.9
0.1700E 01	1.8	5.5	18.3	40.1	57.0	71.8	85.3	97.9	110.0	121.5	132.7	143.5	154.0
0.1800E 01	2.1	5.8	19.3	42.7	60.7	76.3	90.6	104.0	116.7	128.9	140.6	151.9	162.9
0.1900E 01	2.6	6.1	20.4	45.2	64.3	80.8	95.9	110.0	123.3	136.1	148.5	160.3	171.8
0.2000E 01	3.0	6.3	21.6	47.8	68.0	85.3	101.2	116.0	130.0	143.4	156.3	168.7	180.7
0.2100E 01	3.3	6.6	22.8	50.4	71.6	89.9	106.5	121.9	136.6	150.6	164.1	177.0	189.5
0.2200E 01	3.5	7.0	24.0	53.0	75.2	94.4	111.7	127.9	143.2	157.8	171.8	185.3	198.2
0.2300E 01	3.5	7.5	25.3	55.6	78.9	98.9	117.0	133.8	149.8	165.0	179.5	193.5	206.9
0.2400E 01	3.6	8.1	26.6	58.2	82.5	103.3	122.2	139.6	156.3	172.1	187.2	201.6	215.4
0.2500E 01	3.8	8.8	28.0	60.8	86.1	107.8	127.4	145.7	162.9	179.2	194.8	209.7	223.9
0.2600E 01	4.1	9.5	29.4	63.4	89.8	112.3	132.7	151.6	169.4	186.2	202.3	217.7	232.4
0.2700E 01	4.6	10.2	30.8	66.0	93.4	116.8	137.9	157.4	175.8	193.3	209.9	225.7	240.7
0.2800E 01	5.0	10.9	32.2	68.6	97.0	121.2	143.0	163.3	182.3	200.2	217.3	233.6	249.0
0.2900E 01	5.4	11.5	33.7	71.2	100.6	125.7	148.2	169.1	188.7	207.2	224.7	241.4	257.2
0.3000E 01	5.7	12.2	35.2	73.9	104.2	130.1	153.4	174.9	195.1	214.1	232.1	249.2	265.3
0.3100E 01	5.9	12.8	36.7	76.5	107.8	134.5	158.5	180.7	201.4	220.9	239.4	256.9	273.4
0.3200E 01	6.1	13.5	38.3	79.1	111.4	138.9	163.6	186.4	207.7	227.8	246.7	264.5	281.3
0.3300E 01	6.4	14.2	39.9	81.7	115.0	143.3	168.8	192.2	214.0	234.5	253.9	272.1	289.2
0.3400E 01	6.8	15.0	41.5	84.4	118.6	147.7	173.8	197.9	220.3	241.3	261.0	279.6	297.0
0.3500E 01	7.3	15.8	43.1	87.0	122.2	152.1	178.9	203.6	226.5	248.0	268.1	287.0	304.7

-20. LOG /T/ VLAM.0/W**2D= 0.400000E-01 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.8	4.5	5.3
0.2000E 00	0.6	0.9	1.5	2.2	3.2	4.3	5.5	6.9	8.3	9.8	11.3	12.8	14.3
0.3000E 00	1.0	1.7	2.9	4.4	6.2	8.3	10.4	12.7	14.9	17.2	19.4	21.6	23.8
0.4000E 00	1.2	2.4	4.3	6.8	9.6	12.6	15.7	18.7	21.7	24.7	27.6	30.5	33.3
0.5000E 00	1.2	2.9	5.7	9.3	13.2	17.2	21.1	24.9	28.6	32.2	35.8	39.3	42.7
0.6000E 00	1.0	3.1	7.1	11.9	16.9	21.7	26.4	31.0	35.4	39.8	44.0	48.1	52.2
0.7000E 00	0.7	3.1	8.3	14.5	20.5	26.3	31.8	37.1	42.3	47.3	52.1	56.9	61.6
0.8000E 00	0.6	3.0	9.5	17.1	24.2	30.9	37.2	43.3	49.1	54.8	60.3	65.6	70.9
0.9000E 00	0.7	2.7	10.6	19.7	27.9	35.5	42.6	49.4	55.9	62.2	68.4	74.4	80.2
0.1000E 01	1.1	2.5	11.7	22.3	31.6	40.0	48.0	55.5	62.7	69.7	76.4	83.0	89.4
0.1100E 01	1.6	2.6	12.8	24.9	35.2	44.6	53.3	61.6	69.5	77.1	84.5	91.6	98.6
0.1200E 01	2.0	3.0	13.9	27.4	38.9	49.2	58.7	67.6	76.2	84.5	92.4	100.2	107.7
0.1300E 01	2.2	3.6	14.9	30.0	42.6	53.7	64.0	73.7	82.9	91.8	100.4	108.7	116.8
0.1400E 01	2.2	4.4	16.0	32.6	46.2	58.3	69.3	79.7	89.6	99.1	108.3	117.1	125.7
0.1500E 01	2.2	5.2	17.1	35.2	49.9	62.8	74.6	85.7	96.3	106.4	116.1	125.5	134.6
0.1600E 01	2.2	5.9	18.3	37.8	53.6	67.3	79.9	91.7	102.9	113.6	123.9	133.8	143.4
0.1700E 01	2.4	6.5	19.4	40.5	57.2	71.8	85.2	97.7	109.5	120.8	131.7	142.1	152.1
0.1800E 01	2.8	7.0	20.7	43.1	60.9	76.3	90.4	103.6	116.1	128.0	139.3	150.2	160.7
0.1900E 01	3.2	7.4	22.0	45.7	64.5	80.8	95.7	109.5	122.6	135.1	147.0	158.3	169.2
0.2000E 01	3.7	7.8	23.4	48.3	68.1	85.3	100.9	115.4	129.1	142.1	154.5	166.3	177.6
0.2100E 01	4.1	8.3	24.8	50.9	71.8	89.8	106.1	121.3	135.6	149.1	162.0	174.3	185.9
0.2200E 01	4.3	8.9	26.2	53.5	75.4	94.2	111.3	127.1	142.0	156.1	169.4	182.1	194.1
0.2300E 01	4.5	9.6	27.7	56.2	79.0	98.7	116.5	132.9	148.4	163.0	176.8	189.9	202.2
0.2400E 01	4.7	10.3	29.2	58.8	82.6	103.1	121.6	138.7	154.7	169.8	184.1	197.5	210.2
0.2500E 01	5.0	11.1	30.8	61.5	86.2	107.5	126.7	144.5	161.0	176.6	191.3	205.1	218.1
0.2600E 01	5.4	12.0	32.3	64.1	89.8	111.9	131.8	150.2	167.3	183.3	198.4	212.6	225.8
0.2700E 01	5.9	12.8	34.0	66.7	93.4	116.3	136.9	155.8	173.5	190.0	205.4	219.9	233.5
0.2800E 01	6.4	13.7	35.6	69.4	97.0	120.7	141.9	161.5	179.6	196.6	212.4	227.2	241.0
0.2900E 01	6.8	14.5	37.3	72.1	100.6	125.0	147.0	167.1	185.7	203.1	219.3	234.4	248.4
0.3000E 01	7.2	15.3	39.0	74.7	104.2	129.4	152.0	172.6	191.8	209.6	226.1	241.5	255.7
0.3100E 01	7.6	16.2	40.7	77.4	107.7	133.7	156.9	178.2	197.8	216.0	232.9	248.5	262.9
0.3200E 01	8.0	17.1	42.4	80.1	111.3	138.0	161.9	183.7	203.7	222.3	239.5	255.4	269.9
0.3300E 01	8.4	18.0	44.2	82.7	114.8	142.3	166.8	189.1	209.6	228.6	246.1	262.1	276.8
0.3400E 01	8.9	19.0	46.0	85.4	118.4	146.6	171.7	194.5	215.5	234.8	252.6	268.8	283.6
0.3500E 01	9.5	20.0	47.8	88.1	121.9	150.8	176.5	199.9	221.3	240.9	258.9	275.4	290.3

-20. LOG /T/ VLAM.0/W**2D= 0.500000E-01 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.3
0.2000E 00	0.6	1.0	1.5	2.2	3.2	4.3	5.5	6.9	8.3	9.8	11.3	12.9	14.4
0.3000E 00	1.0	1.8	2.9	4.4	6.3	8.3	10.5	12.7	15.0	17.2	19.4	21.7	23.8
0.4000E 00	1.2	2.5	4.4	6.9	9.7	12.7	15.8	18.8	21.8	24.7	27.6	30.5	33.3
0.5000E 00	1.2	3.0	5.8	9.4	13.3	17.2	21.1	24.9	28.6	32.3	35.8	39.3	42.8
0.6000E 00	1.0	3.2	7.2	12.0	17.0	21.8	26.5	31.1	35.5	39.8	44.0	48.1	52.2
0.7000E 00	0.8	3.3	8.5	14.6	20.6	26.4	31.9	37.2	42.3	47.3	52.1	56.9	61.5
0.8000E 00	0.7	3.2	9.7	17.2	24.3	31.0	37.3	43.3	49.1	54.8	60.2	65.5	70.7
0.9000E 00	0.9	3.0	10.9	19.8	28.0	35.6	42.7	49.4	55.9	62.2	68.3	74.2	79.9
0.1000E 01	1.3	3.0	12.1	22.5	31.7	40.1	48.0	55.5	62.7	69.6	76.2	82.7	89.0
0.1100E 01	1.8	3.1	13.2	25.1	35.4	44.7	53.4	61.6	69.4	76.9	84.2	91.2	98.0
0.1200E 01	2.2	3.6	14.3	27.7	39.1	49.3	58.7	67.6	76.1	84.2	92.0	99.6	106.9
0.1300E 01	2.5	4.3	15.5	30.3	42.7	53.8	64.0	73.6	82.7	91.4	99.8	107.9	115.7
0.1400E 01	2.6	5.2	16.7	32.9	46.4	58.3	69.3	79.6	89.3	98.6	107.6	116.2	124.4
0.1500E 01	2.6	6.0	17.9	35.6	50.1	62.8	74.5	85.5	95.9	105.8	115.2	124.3	133.0
0.1600E 01	2.7	6.8	19.2	38.2	53.7	67.3	79.8	91.4	102.4	112.8	122.8	132.3	141.4
0.1700E 01	2.9	7.4	20.6	40.8	57.4	71.8	85.0	97.3	108.9	119.9	130.3	140.3	149.7
0.1800E 01	3.4	8.1	22.0	43.5	61.0	76.3	90.2	103.1	115.3	126.8	137.7	148.1	157.9
0.1900E 01	3.9	8.6	23.5	46.1	64.6	80.7	95.3	108.9	121.7	133.7	145.0	155.8	165.9
0.2000E 01	4.4	9.2	25.0	48.8	68.2	85.2	100.5	114.7	128.0	140.5	152.3	163.4	173.8
0.2100E 01	4.8	9.9	26.5	51.4	71.8	89.6	105.6	120.4	134.2	147.2	159.4	170.9	181.6
0.2200E 01	5.1	10.7	28.2	54.1	75.5	94.0	110.7	126.1	140.4	153.8	166.4	178.2	189.2
0.2300E 01	5.4	11.5	29.8	56.7	79.0	98.3	115.7	131.7	146.6	160.4	173.4	185.4	196.6
0.2400E 01	5.7	12.4	31.5	59.4	82.6	102.7	120.7	137.3	152.6	166.9	180.2	192.5	204.0
0.2500E 01	6.1	13.4	33.2	62.1	86.2	107.0	125.7	142.8	158.6	173.3	186.9	199.5	211.1
0.2600E 01	6.6	14.3	34.9	64.8	89.8	111.3	130.7	148.3	164.6	179.6	193.6	206.4	218.1
0.2700E 01	7.2	15.3	36.7	67.4	93.3	115.6	135.6	153.7	170.5	185.9	200.1	213.1	225.0
0.2800E 01	7.8	16.3	38.5	70.1	96.9	119.9	140.4	159.1	176.3	192.0	206.5	219.7	231.7
0.2900E 01	8.3	17.3	40.3	72.8	100.4	124.1	145.3	164.5	182.0	198.1	212.8	226.2	238.3
0.3000E 01	8.8	18.3	42.2	75.5	103.9	128.4	150.1	169.8	187.7	204.1	219.0	232.5	244.7
0.3100E 01	9.3	19.4	44.0	78.2	107.4	132.5	154.8	175.0	193.3	210.0	225.1	238.8	251.0
0.3200E 01	9.8	20.5	45.9	80.9	110.9	136.7	159.6	180.2	198.8	215.8	231.1	244.9	257.1
0.3300E 01	10.3	21.6	47.9	83.6	114.4	140.9	164.2	185.3	204.3	221.5	237.0	250.8	263.1
0.3400E 01	10.9	22.7	49.8	86.3	117.9	145.0	168.9	190.3	209.7	227.1	242.8	256.7	269.0
0.3500E 01	11.6	23.9	51.8	89.0	121.3	149.1	173.5	195.4	215.0	232.7	248.4	262.4	274.7

-20. LOG /T/ VLAM.0/W**2D= 0.600000E-01 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.3
0.2000E 00	0.6	1.0	1.5	2.3	3.2	4.3	5.6	6.9	8.4	9.8	11.4	12.9	14.4
0.3000E 00	1.0	1.8	2.9	4.5	6.3	8.3	10.5	12.8	15.0	17.3	19.5	21.7	23.9
0.4000E 00	1.2	2.5	4.4	6.9	9.8	12.8	15.8	18.8	21.8	24.8	27.7	30.5	33.3
0.5000E 00	1.3	3.0	5.9	9.5	13.4	17.3	21.2	25.0	28.7	32.3	35.9	39.3	42.8
0.6000E 00	1.1	3.3	7.3	12.1	17.1	21.9	26.6	31.1	35.5	39.8	44.0	48.1	52.1
0.7000E 00	0.9	3.5	8.6	14.7	20.8	26.5	32.0	37.3	42.4	47.3	52.1	56.8	61.4
0.8000E 00	0.8	3.4	9.9	17.4	24.5	31.1	37.4	43.4	49.1	54.7	60.1	65.4	70.5
0.9000E 00	1.0	3.4	11.2	20.0	28.1	35.7	42.7	49.4	55.9	62.1	68.1	73.9	79.6
0.1000E 01	1.5	3.4	12.4	22.6	31.8	40.2	48.1	55.5	62.6	69.4	76.0	82.3	88.5
0.1100E 01	2.0	3.7	13.6	25.3	35.5	44.8	53.4	61.5	69.2	76.7	83.8	90.7	97.3
0.1200E 01	2.5	4.2	14.8	27.9	39.2	49.3	58.7	67.5	75.9	83.9	91.5	98.9	106.0
0.1300E 01	2.8	5.0	16.1	30.6	42.9	53.8	63.9	73.4	82.4	91.0	99.2	107.0	114.5
0.1400E 01	2.9	5.9	17.4	33.2	46.5	58.3	69.2	79.3	88.9	98.0	106.7	115.0	122.8
0.1500E 01	3.0	6.8	18.8	35.9	50.2	62.8	74.4	85.2	95.3	105.0	114.1	122.8	131.0
0.1600E 01	3.2	7.6	20.2	38.5	53.8	67.3	79.6	91.0	101.7	111.9	121.4	130.5	139.1
0.1700E 01	3.5	8.4	21.7	41.2	57.5	71.7	84.7	96.7	108.0	118.6	128.7	138.1	146.9
0.1800E 01	4.0	9.1	23.2	43.8	61.1	76.1	89.8	102.5	114.3	125.3	135.8	145.5	154.6
0.1900E 01	4.5	9.9	24.8	46.5	64.7	80.5	94.9	108.1	120.4	132.0	142.7	152.8	162.1
0.2000E 01	5.1	10.6	26.5	49.2	68.3	84.9	99.9	113.7	126.5	138.5	149.6	159.9	169.5
0.2100E 01	5.6	11.4	28.2	51.9	71.9	89.2	104.9	119.3	132.5	144.9	156.3	166.9	176.6
0.2200E 01	6.0	12.3	29.9	54.6	75.4	93.6	109.8	124.7	138.5	151.2	162.9	173.7	183.6
0.2300E 01	6.3	13.3	31.7	57.2	79.0	97.9	114.8	130.2	144.3	157.4	169.4	180.4	190.4
0.2400E 01	6.8	14.4	33.5	59.9	82.6	102.1	119.6	135.5	150.1	163.5	175.8	186.9	197.1
0.2500E 01	7.2	15.4	35.3	62.6	86.1	106.3	124.4	140.8	155.8	169.5	182.0	193.3	203.5
0.2600E 01	7.6	16.5	37.2	65.4	89.6	110.5	129.2	146.1	161.4	175.4	188.1	199.5	209.8
0.2700E 01	8.5	17.6	39.1	68.1	93.1	114.7	133.9	151.2	167.0	181.2	194.1	205.6	215.9
0.2800E 01	9.1	18.7	41.0	70.8	96.6	118.9	138.6	156.3	172.4	186.9	199.9	211.5	221.8
0.2900E 01	9.7	19.9	42.9	73.5	100.1	123.0	143.2	161.4	177.7	192.4	205.6	217.3	227.6
0.3000E 01	10.3	21.1	44.9	76.2	103.5	127.0	147.8	166.4	183.0	197.9	211.2	222.9	233.1
0.3100E 01	10.9	22.3	46.9	78.9	107.0	131.1	152.3	171.3	188.2	203.3	216.6	228.4	238.6
0.3200E 01	11.5	23.5	48.9	81.7	110.4	135.1	156.8	176.1	193.3	208.5	221.9	233.7	243.8
0.3300E 01	12.2	24.8	50.9	84.4	113.8	139.1	161.2	180.8	198.2	213.6	227.1	238.9	249.0
0.3400E 01	12.9	26.1	52.0	87.1	117.2	143.0	165.6	185.5	203.2	218.7	232.2	243.9	253.9
0.3500E 01	13.6	27.4	54.0	89.8	120.5	146.9	169.9	190.1	208.0	223.6	237.2	248.8	258.7

-20. LOG /T/ VLAM.0/W**2D= 0.700000E-01 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.3
0.2000E 00	0.6	1.0	1.5	2.3	3.2	4.3	5.6	6.9	8.4	9.9	11.4	12.9	14.4
0.3000E 00	1.0	1.8	3.0	4.5	6.3	8.4	10.6	12.8	15.0	17.3	19.5	21.7	23.9
0.4000E 00	1.3	2.5	4.5	7.0	9.8	12.8	15.9	18.9	21.9	24.8	27.7	30.6	33.4
0.5000E 00	1.3	3.1	6.0	9.6	13.5	17.4	21.3	25.0	28.7	32.4	35.9	39.4	42.7
0.6000E 00	1.2	3.4	7.4	12.2	17.1	22.0	26.7	31.2	35.6	39.8	44.0	48.1	52.0
0.7000E 00	1.0	3.6	8.8	14.9	20.9	26.6	32.0	37.3	42.4	47.3	52.0	56.7	61.2
0.8000E 00	1.0	3.7	10.1	17.5	24.6	31.2	37.4	43.4	49.1	54.7	60.0	65.2	70.2
0.9000E 00	1.2	3.7	11.4	20.2	28.3	35.7	42.8	49.4	55.8	62.0	67.9	73.6	79.1
0.1000E 01	1.7	3.8	12.7	22.8	32.0	40.3	48.1	55.4	62.5	69.2	75.7	81.9	87.8
0.1100E 01	2.2	4.2	14.0	25.5	35.6	44.8	53.4	61.4	69.0	76.3	83.3	90.0	96.4
0.1200E 01	2.7	4.8	15.3	28.1	39.3	49.4	58.6	67.3	75.6	83.4	90.9	98.0	104.8
0.1300E 01	3.0	5.7	16.6	30.8	43.0	53.9	63.8	73.2	82.0	90.4	98.3	105.9	113.0
0.1400E 01	3.2	6.6	18.0	33.5	46.6	58.3	69.0	79.0	88.4	97.2	105.6	113.5	121.0
0.1500E 01	3.4	7.6	19.5	36.1	50.3	62.8	74.2	84.8	94.7	104.0	112.8	121.1	128.8
0.1600E 01	3.6	8.5	21.1	38.8	53.9	67.2	79.3	90.4	100.9	110.7	119.8	128.4	136.4
0.1700E 01	4.0	9.3	22.7	41.5	57.5	71.6	84.3	96.1	107.0	117.2	126.7	135.6	143.8
0.1800E 01	4.6	10.2	24.3	44.2	61.1	75.9	89.3	101.6	113.1	123.7	133.5	142.6	151.0
0.1900E 01	5.2	11.0	26.1	46.9	64.7	80.3	94.3	107.1	119.0	130.0	140.1	149.4	158.0
0.2000E 01	5.8	11.9	27.8	49.6	68.3	84.6	99.2	112.6	124.9	136.2	146.6	156.1	164.7
0.2100E 01	6.3	12.9	29.6	52.3	71.8	88.8	104.0	117.9	130.6	142.2	152.9	162.6	171.3
0.2200E 01	6.8	13.9	31.5	55.0	75.4	93.0	108.8	123.2	136.3	148.2	159.0	168.9	177.7
0.2300E 01	7.3	15.0	33.3	57.7	78.9	97.2	113.6	128.4	141.8	154.0	165.1	175.0	183.8
0.2400E 01	7.8	16.2	35.2	60.4	82.4	101.4	118.3	133.5	147.3	159.7	170.9	180.9	189.8
0.2500E 01	8.3	17.4	37.2	63.2	85.9	105.5	122.9	138.5	152.6	165.3	176.6	186.7	195.5
0.2600E 01	9.0	18.6	39.1	65.9	89.3	109.6	127.5	143.5	157.9	170.7	182.2	192.3	201.1
0.2700E 01	9.7	19.8	41.1	68.6	92.8	113.6	132.0	148.4	163.0	176.0	187.6	197.7	206.4
0.2800E 01	10.4	21.0	43.1	71.3	96.2	117.6	136.5	153.2	168.1	181.2	192.8	202.9	211.6
0.2900E 01	11.1	22.3	45.2	74.1	99.6	121.6	140.8	157.9	173.0	186.3	197.9	208.0	216.6
0.3000E 01	11.8	23.6	47.2	76.8	102.9	125.5	145.2	162.5	177.8	191.2	202.9	212.9	221.5
0.3100E 01	12.5	25.0	49.3	79.5	106.3	129.3	149.4	167.1	182.6	196.1	207.7	217.7	226.1
0.3200E 01	13.2	26.3	51.4	82.2	109.6	133.2	153.6	171.5	187.2	200.8	212.4	222.3	230.6
0.3300E 01	14.0	27.7	53.5	84.9	112.9	136.9	157.8	175.9	191.7	205.3	217.0	226.8	235.0
0.3400E 01	14.8	29.1	55.6	87.7	116.2	140.7	161.9	180.2	196.1	209.8	221.4	231.1	239.2
0.3500E 01	15.6	30.6	57.8	90.4	119.5	144.4	165.9	184.4	200.4	214.1	225.7	235.3	243.2

-20. LOG /T/ VLAM.0/W**2D= 0.800000E-01 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.4
0.2000E 00	0.6	1.0	1.5	2.3	3.2	4.3	5.6	7.0	8.4	9.9	11.4	13.0	14.5
0.3000E 00	1.0	1.8	3.0	4.5	6.4	8.4	10.6	12.8	15.1	17.3	19.6	21.8	23.9
0.4000E 00	1.3	2.6	4.5	7.0	9.9	12.9	15.9	18.9	21.9	24.9	27.8	30.6	33.4
0.5000E 00	1.3	3.2	6.0	9.6	13.5	17.4	21.3	25.1	28.8	32.4	35.9	39.3	42.7
0.6000E 00	1.2	3.5	7.5	12.3	17.2	22.1	26.7	31.2	35.6	39.8	44.0	48.0	51.9
0.7000E 00	1.1	3.8	8.9	15.0	20.9	26.7	32.1	37.3	42.4	47.2	52.0	56.5	61.0
0.8000E 00	1.1	3.9	10.3	17.7	24.7	31.2	37.5	43.4	49.1	54.6	59.8	64.9	69.9
0.9000E 00	1.9	4.0	11.6	20.3	28.4	35.8	42.8	49.4	55.7	61.8	67.6	73.2	78.6
0.1000E 01	1.9	4.2	13.0	23.0	32.1	40.4	48.1	55.4	62.3	68.9	75.3	81.3	87.1
0.1100E 01	2.4	4.7	14.3	25.7	35.8	44.9	53.3	61.3	68.8	76.0	82.8	89.2	95.4
0.1200E 01	2.9	5.4	15.7	28.4	39.4	49.4	58.5	67.1	75.2	82.9	90.1	97.0	103.5
0.1300E 01	3.3	6.3	17.2	31.0	43.1	53.8	63.7	72.9	81.5	89.7	97.4	104.6	111.4
0.1400E 01	3.6	7.3	18.7	33.7	46.7	58.3	68.8	78.6	87.8	96.4	104.4	112.0	119.0
0.1500E 01	3.8	8.3	20.3	36.4	50.3	62.7	73.9	84.3	93.9	102.9	111.3	119.1	126.4
0.1600E 01	4.1	9.3	21.9	39.1	54.0	67.0	78.9	89.8	99.9	109.3	118.1	126.1	133.5
0.1700E 01	4.6	10.2	23.6	41.8	57.5	71.4	83.8	95.3	105.9	115.6	124.6	132.9	140.4
0.1800E 01	5.1	11.2	25.4	44.5	61.1	75.6	88.7	100.7	111.7	121.8	131.0	139.5	147.1
0.1900E 01	5.8	12.2	27.2	47.2	64.7	79.9	93.6	106.0	117.4	127.8	137.3	145.8	153.6
0.2000E 01	6.4	13.2	29.0	50.0	68.2	84.1	98.3	111.2	123.0	133.6	143.3	152.0	159.8
0.2100E 01	7.0	14.3	30.9	52.7	71.7	88.3	103.0	116.4	128.4	139.4	149.2	158.0	165.7
0.2200E 01	7.6	15.4	32.9	55.4	75.2	92.4	107.7	121.4	133.8	144.9	154.9	163.7	171.5
0.2300E 01	8.1	16.6	34.8	58.1	78.7	96.5	112.3	126.4	139.0	150.4	160.4	169.3	177.0
0.2400E 01	8.7	17.9	36.8	60.9	82.1	100.5	116.8	131.2	144.2	155.6	165.8	174.6	182.3
0.2500E 01	9.4	19.1	38.8	63.6	85.5	104.5	121.2	136.0	149.1	160.8	171.0	179.8	187.4
0.2600E 01	10.1	20.5	40.9	66.3	88.9	108.4	125.5	140.7	154.0	165.8	176.0	184.8	192.3
0.2700E 01	10.9	21.8	42.9	69.1	92.3	112.3	129.8	145.2	158.8	170.6	180.9	189.6	197.0
0.2800E 01	11.7	23.1	45.0	71.8	95.6	116.2	134.1	149.7	163.4	175.3	185.6	194.3	201.6
0.2900E 01	12.4	24.5	47.1	74.5	98.9	119.9	138.2	154.1	168.0	179.9	190.1	198.7	205.9
0.3000E 01	13.2	25.9	49.2	77.2	102.2	123.7	142.3	158.4	172.4	184.3	194.5	203.0	210.1
0.3100E 01	14.0	27.4	51.4	79.9	105.4	127.4	146.3	162.6	176.7	188.6	198.7	207.2	214.1
0.3200E 01	14.8	28.9	53.5	82.6	108.7	131.0	150.2	166.7	180.8	192.8	202.8	211.1	217.9
0.3300E 01	15.7	30.3	55.7	85.3	111.9	134.6	154.0	170.7	184.9	196.9	206.8	215.0	221.6
0.3400E 01	16.6	31.9	57.8	88.0	115.0	138.1	157.8	174.6	188.8	200.8	210.6	218.7	225.1
0.3500E 01	17.5	33.4	60.0	90.7	118.1	141.6	161.5	178.4	192.7	204.6	214.3	222.2	228.5

-20. LOG /T/ VLAM.0/W**2D= 0.900000E-01 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.7	3.3	3.9	4.6	5.4
0.2000E 00	0.6	1.0	1.6	2.3	3.3	4.4	5.6	7.0	8.5	9.9	11.5	13.0	14.5
0.3000E 00	1.0	1.8	3.0	4.6	6.4	8.5	10.6	12.9	15.1	17.4	19.6	21.8	24.0
0.4000E 00	1.3	2.6	4.6	7.1	9.9	12.9	16.0	19.0	22.0	24.9	27.8	30.6	33.4
0.5000E 00	1.4	3.2	6.1	9.7	13.6	17.5	21.4	25.1	28.8	32.4	35.9	39.3	42.6
0.6000E 00	1.3	3.6	7.6	12.4	17.3	22.1	26.8	31.3	35.6	39.8	43.9	47.9	51.8
0.7000E 00	1.2	3.9	9.1	15.1	21.0	26.7	32.2	37.4	42.4	47.2	51.8	56.4	60.7
0.8000E 00	1.2	4.1	10.5	17.8	24.8	31.3	37.5	43.4	49.0	54.4	59.6	64.6	69.5
0.9000E 00	1.5	4.3	11.9	20.5	28.5	35.9	42.8	49.4	55.6	61.6	67.3	72.8	78.0
0.1000E 01	2.0	4.6	13.3	23.2	32.2	40.4	48.1	55.3	62.1	68.6	74.8	80.7	86.3
0.1100E 01	2.6	5.2	14.7	25.9	35.9	44.9	53.3	61.1	68.5	75.5	82.1	88.4	94.3
0.1200E 01	3.2	6.0	16.2	28.6	39.5	49.4	58.4	66.9	74.8	82.3	89.3	95.9	102.1
0.1300E 01	3.6	6.9	17.7	31.3	43.2	53.8	63.5	72.6	81.0	88.9	96.3	103.2	109.6
0.1400E 01	3.9	8.0	19.3	34.0	46.8	58.2	68.6	78.2	87.1	95.4	103.1	110.2	116.8
0.1500E 01	4.2	9.0	20.9	36.7	50.4	62.5	73.5	83.7	93.0	101.7	109.7	117.1	123.8
0.1600E 01	4.6	10.1	22.7	39.4	54.0	66.8	78.4	89.1	98.9	107.9	116.1	123.6	130.5
0.1700E 01	5.1	11.1	24.5	42.1	57.5	71.1	83.3	94.4	104.6	113.9	122.3	130.0	136.9
0.1800E 01	5.7	12.2	26.3	44.8	61.1	75.3	88.1	99.6	110.1	119.7	128.4	136.1	143.1
0.1900E 01	6.4	13.2	28.2	47.6	64.6	79.5	92.7	104.7	115.6	125.4	134.2	142.0	149.0
0.2000E 01	7.1	14.4	30.2	50.3	68.1	83.6	97.4	109.8	120.9	130.9	139.8	147.7	154.6
0.2100E 01	7.7	15.6	32.1	53.0	71.5	87.6	101.9	114.7	126.1	136.3	145.3	153.2	160.1
0.2200E 01	8.4	16.8	34.1	55.8	75.0	91.6	106.4	119.5	131.1	141.5	150.5	158.4	165.2
0.2300E 01	9.0	18.1	36.2	58.5	78.4	95.6	110.8	124.2	136.0	146.5	155.6	163.5	170.2
0.2400E 01	9.7	19.4	38.2	61.2	81.7	99.5	115.1	128.8	140.8	151.4	160.5	168.3	174.9
0.2500E 01	10.4	20.8	40.3	64.0	85.1	103.3	119.3	133.3	145.5	156.1	165.2	172.9	179.4
0.2600E 01	11.2	22.2	42.4	66.7	88.4	107.1	123.4	137.6	150.0	160.6	169.7	177.4	183.7
0.2700E 01	12.0	23.6	44.5	69.4	91.7	110.9	127.5	141.9	154.4	165.0	174.1	181.6	187.9
0.2800E 01	12.9	25.1	46.6	72.1	94.9	114.5	131.5	146.1	158.6	169.3	178.3	185.7	191.8
0.2900E 01	13.7	26.5	48.8	74.8	98.1	118.1	135.3	150.1	162.7	173.4	182.3	189.6	195.6
0.3000E 01	14.6	28.1	50.9	77.5	101.3	121.7	139.2	154.1	166.7	177.3	186.2	193.4	199.2
0.3100E 01	15.5	29.6	53.1	80.2	104.4	125.2	142.9	157.9	170.6	181.2	189.9	196.9	202.6
0.3200E 01	16.4	31.1	55.3	82.9	107.6	128.6	146.5	161.7	174.3	184.9	193.5	200.4	205.9
0.3300E 01	17.3	32.7	57.5	85.5	110.6	132.0	150.1	165.3	178.0	188.4	196.9	203.7	209.0
0.3400E 01	18.3	34.3	59.7	88.2	113.6	135.3	153.6	168.8	181.5	191.9	200.2	206.8	212.0
0.3500E 01	19.2	35.9	61.9	90.8	116.6	138.6	156.9	172.3	184.9	195.2	203.4	209.9	214.9

-20. LOG /T/ VLAM.0/W**2D= 0.100000E 00 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.4	0.6	0.9	1.2	1.6	2.1	2.7	3.3	3.9	4.7	5.4
0.2000E 00	0.6	1.0	1.6	2.3	3.3	4.4	5.7	7.0	8.5	10.0	11.5	13.0	14.5
0.3000E 00	1.0	1.9	3.0	4.6	6.4	8.5	10.7	12.9	15.2	17.4	19.6	21.8	24.0
0.4000E 00	1.3	2.6	4.6	7.1	10.0	13.0	16.0	9.0	22.0	24.9	27.8	30.6	33.4
0.5000E 00	1.4	3.3	6.2	9.8	13.7	17.6	21.4	25.2	28.8	32.4	35.9	39.3	42.6
0.6000E 00	1.4	3.7	7.7	12.5	17.4	22.2	26.8	31.3	35.6	39.8	43.9	47.8	51.6
0.7000E 00	1.3	4.1	9.2	15.2	21.1	26.8	32.2	37.4	42.3	47.1	51.7	56.2	60.4
0.8000E 00	1.3	4.3	10.7	17.9	24.9	31.4	37.5	43.4	48.9	54.3	59.4	64.3	69.0
0.9000E 00	1.7	4.6	12.1	20.6	28.6	35.9	42.8	49.3	55.5	61.3	66.9	72.2	77.3
0.1000E 01	2.2	5.0	13.6	23.3	32.3	40.4	48.0	55.1	61.9	68.2	74.3	80.0	85.3
0.1100E 01	2.9	5.6	15.0	26.0	35.9	44.9	53.2	60.9	68.2	75.0	81.4	87.4	93.1
0.1200E 01	3.4	6.5	16.6	28.8	39.6	49.3	58.3	66.6	74.3	81.6	88.3	94.7	100.5
0.1300E 01	3.9	7.5	18.2	31.5	43.2	53.7	63.3	72.1	80.4	88.0	95.1	101.6	107.7
0.1400E 01	4.2	8.6	19.9	34.2	46.8	58.0	68.2	77.6	86.3	94.3	101.8	108.4	114.5
0.1500E 01	4.6	9.8	21.6	36.9	50.4	62.3	73.1	83.0	92.0	100.4	107.9	114.8	121.1
0.1600E 01	5.0	10.9	23.4	39.8	54.0	66.6	77.9	88.3	97.7	106.3	114.0	121.0	127.3
0.1700E 01	5.6	12.0	25.3	42.4	57.5	70.8	82.6	93.4	103.2	112.0	119.9	127.0	133.3
0.1800E 01	6.3	13.1	27.2	45.1	61.0	74.9	87.3	98.4	108.5	117.5	125.6	132.7	138.9
0.1900E 01	7.0	14.3	29.2	47.9	64.5	79.0	91.8	103.4	113.7	122.9	131.0	138.1	144.3
0.2000E 01	7.7	15.5	31.2	50.6	67.9	83.0	96.3	108.2	118.7	128.0	136.2	143.4	149.5
0.2100E 01	8.5	16.8	33.2	53.3	71.3	86.9	100.7	112.8	123.6	133.0	141.3	148.3	154.4
0.2200E 01	9.1	18.1	35.3	56.1	74.7	90.8	104.9	117.4	129.3	137.8	146.1	153.1	159.0
0.2300E 01	9.9	19.5	37.3	58.8	78.0	94.6	109.1	121.8	132.9	142.5	150.7	157.7	163.5
0.2400E 01	10.6	20.9	39.4	61.5	81.3	98.4	113.2	126.2	137.3	147.0	155.1	162.0	167.7
0.2500E 01	11.4	22.3	41.6	64.2	84.6	102.1	117.2	130.4	141.6	151.3	159.4	166.1	171.7
0.2600E 01	12.3	23.8	43.7	66.9	87.8	105.7	121.2	134.4	145.8	155.4	163.4	170.1	175.5
0.2700E 01	13.2	25.3	45.9	69.6	91.0	109.3	125.0	138.4	149.8	159.4	167.3	173.8	179.1
0.2800E 01	14.1	26.8	48.0	72.3	94.1	112.8	128.7	142.2	153.7	163.2	171.1	177.4	182.5
0.2900E 01	15.0	28.4	50.2	75.0	97.2	116.2	132.3	146.0	157.4	166.9	174.6	180.8	185.8
0.3000E 01	15.9	30.0	52.4	77.7	100.3	119.6	135.9	149.6	161.0	170.4	178.0	184.1	188.9
0.3100E 01	16.9	31.6	54.6	80.3	103.3	122.9	139.3	153.1	164.5	173.8	181.3	187.2	191.8
0.3200E 01	17.8	33.2	56.8	82.9	106.3	126.1	142.7	156.5	167.9	177.1	184.4	190.2	194.6
0.3300E 01	18.8	34.8	59.0	85.5	109.2	129.2	146.0	159.8	171.1	180.2	187.4	193.0	197.3
0.3400E 01	19.9	36.5	61.2	88.1	112.1	132.3	149.2	163.0	174.2	183.2	190.3	195.7	199.9
0.3500E 01	20.9	38.2	63.4	90.7	115.0	135.4	152.3	166.1	177.2	186.1	193.0	198.3	202.3

-20. LOG /T/ VLAM.O/W**2D= 0.200000E 00 Y= 0.

D/LAM.O \ h	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.5	0.7	1.0	1.3	1.7	2.2	2.8	3.4	4.1	4.8	5.6
0.2000E 00	0.6	1.1	1.7	2.5	3.5	4.6	5.9	7.3	8.7	10.2	11.7	13.2	14.7
0.3000E 00	1.2	2.0	3.3	4.9	6.6	8.9	11.0	13.3	15.5	17.7	19.8	21.9	24.0
0.4000E 00	1.6	3.0	5.1	7.6	10.5	13.4	16.4	19.4	22.2	25.0	27.7	30.3	32.8
0.5000E 00	1.8	3.9	6.9	10.5	14.3	18.1	21.8	25.4	28.8	32.1	35.3	38.3	41.1
0.6000E 00	2.0	4.7	8.7	13.3	18.0	22.6	27.0	31.2	35.2	38.9	42.4	45.7	48.8
0.7000E 00	2.2	5.4	10.4	16.2	21.8	27.1	32.2	36.9	41.3	45.4	49.2	52.7	55.9
0.8000E 00	2.6	6.1	12.2	19.0	25.5	31.5	37.1	42.3	47.1	51.5	55.5	59.1	62.4
0.9000E 00	3.2	7.0	14.0	21.8	29.1	35.8	41.9	47.5	52.6	57.2	61.4	65.0	68.3
0.1000E 01	4.0	8.1	15.9	24.6	32.6	39.9	46.5	52.5	57.8	62.6	66.8	70.5	73.6
0.1100E 01	4.8	9.3	17.9	27.4	36.1	43.9	50.9	57.2	62.7	67.6	71.8	75.4	78.5
0.1200E 01	5.7	10.7	19.9	30.1	39.5	47.8	55.2	61.7	67.3	72.2	76.4	79.9	82.9
0.1300E 01	6.5	12.2	21.9	32.8	42.8	51.6	59.2	65.9	71.6	76.5	80.6	84.0	86.8
0.1400E 01	7.3	13.7	24.1	35.6	46.0	55.2	63.1	69.9	75.6	80.5	84.5	87.8	90.4
0.1500E 01	8.1	15.3	26.2	38.3	49.2	58.6	66.7	73.6	79.4	84.1	88.0	91.1	93.6
0.1600E 01	9.1	16.9	28.4	40.9	52.2	62.0	70.2	77.1	82.9	87.5	91.3	94.2	96.5
0.1700E 01	10.1	18.5	30.6	43.5	55.2	65.1	73.5	80.4	86.1	90.7	94.3	97.1	99.2
0.1800E 01	11.1	20.1	32.7	46.1	58.1	68.2	76.6	83.5	89.1	93.5	97.0	99.6	101.6
0.1900E 01	12.3	21.8	34.9	48.6	60.8	71.1	79.6	86.4	91.9	96.2	99.5	102.0	103.8
0.2000E 01	13.4	23.5	37.1	51.1	63.5	73.9	82.4	89.2	94.5	98.6	101.8	104.1	105.8
0.2100E 01	14.5	25.2	39.2	53.6	66.1	76.6	85.0	91.7	96.9	100.9	103.9	106.1	107.7
0.2200E 01	15.7	27.0	41.4	55.9	68.6	79.1	87.5	94.1	99.1	103.0	105.8	107.9	109.3
0.2300E 01	16.9	28.7	43.5	58.3	71.0	81.5	89.8	96.3	101.2	104.9	107.6	109.5	110.9
0.2400E 01	18.1	30.4	45.6	60.5	73.4	83.8	92.0	98.4	103.1	106.7	109.2	111.1	112.3
0.2500E 01	19.4	32.2	47.7	62.7	75.6	86.0	94.1	100.3	104.9	108.3	110.8	112.5	113.6
0.2600E 01	20.6	33.9	49.7	64.9	77.8	88.1	96.1	102.1	106.6	109.9	112.2	113.8	114.9
0.2700E 01	21.9	35.7	51.7	67.0	79.8	90.1	97.9	103.8	108.2	111.3	113.5	115.0	116.0
0.2800E 01	23.2	37.4	53.7	69.0	81.8	91.9	99.7	105.4	109.6	112.6	114.7	116.1	117.0
0.2900E 01	24.5	39.2	55.6	71.0	83.7	93.7	101.3	106.9	110.9	113.8	115.8	117.1	118.0
0.3000E 01	25.8	40.9	57.5	72.9	85.6	95.4	102.9	108.3	112.2	115.0	116.8	118.1	118.9
0.3100E 01	27.2	42.6	59.4	74.8	87.3	97.1	104.3	109.6	113.4	116.0	117.8	119.0	119.7
0.3200E 01	28.5	44.3	61.2	76.6	89.0	98.6	105.7	110.8	114.5	117.0	118.7	119.8	120.5
0.3300E 01	29.8	45.9	63.0	78.3	90.6	100.1	107.0	112.0	115.5	117.9	119.5	120.6	121.2
0.3400E 01	31.2	47.6	64.8	80.0	92.2	101.5	108.2	113.1	116.5	118.8	120.3	121.3	121.9
0.3500E 02	32.5	49.2	66.5	81.6	93.7	102.8	109.4	114.1	117.4	119.6	121.1	122.0	122.6

-20. LOG /T/ VLAM.0/W**2D= 0.300000E 00 Y= 0.

D/LAM.0 W	0.60	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.5	0.7	1.0	1.4	1.8	2.3	2.9	3.6	4.2	5.0	5.8
0.2000E 00	0.7	1.1	1.8	2.6	3.6	4.8	6.1	7.5	9.0	10.4	11.9	13.4	14.8
0.3000E 00	1.3	2.2	3.5	5.2	7.1	9.2	11.3	13.5	15.6	17.7	19.8	21.7	23.5
0.4000E 00	1.8	3.3	5.5	8.0	10.9	13.8	16.6	19.4	22.1	24.7	27.1	29.4	31.6
0.5000E 00	2.2	4.4	7.5	11.0	14.7	18.3	21.8	25.1	28.3	31.2	33.9	36.4	38.6
0.6000E 00	2.6	5.4	9.4	13.9	18.4	22.7	26.8	30.5	34.0	37.1	40.0	42.5	44.7
0.7000E 00	3.0	6.5	11.4	16.8	22.0	26.9	31.4	35.5	39.2	42.5	45.4	47.9	50.0
0.8000E 00	3.7	7.6	13.4	19.6	25.5	30.9	35.8	40.2	44.0	47.3	50.1	52.6	54.6
0.9000E 00	4.5	8.9	15.4	22.4	28.9	34.7	39.9	44.4	48.3	51.6	54.3	56.6	58.5
0.1000E 01	5.5	10.3	17.5	25.1	32.1	38.3	43.7	48.3	52.2	55.4	58.0	60.2	61.9
0.1100E 01	6.6	11.9	19.6	27.8	35.2	41.7	47.2	51.8	55.6	58.8	61.3	63.2	64.8
0.1200E 01	7.6	13.5	21.8	30.4	38.2	44.8	50.4	55.0	58.8	61.8	64.1	65.9	67.3
0.1300E 01	8.7	15.2	23.9	32.9	41.0	47.8	53.4	57.9	61.6	64.4	66.6	68.2	69.5
0.1400E 01	9.8	16.9	26.1	35.4	43.6	50.5	56.1	60.6	64.1	66.8	68.8	70.3	71.4
0.1500E 01	10.9	18.6	28.2	37.8	46.1	53.0	58.6	62.9	66.3	68.8	70.7	72.1	73.0
0.1600E 01	12.1	20.4	30.3	40.1	48.5	55.4	60.9	65.1	68.3	70.7	72.4	73.7	74.5
0.1700E 01	13.4	22.1	32.4	42.3	50.8	57.6	63.0	67.0	70.1	72.3	73.9	75.1	75.8
0.1800E 01	14.7	23.8	34.4	44.4	52.9	59.6	64.9	68.8	71.7	73.8	75.3	76.3	77.0
0.1900E 01	16.0	25.5	36.3	46.4	54.9	61.5	66.6	70.4	73.2	75.1	76.5	77.4	78.0
0.2000E 01	17.3	27.3	38.2	48.4	56.7	63.3	68.2	71.8	74.5	76.3	77.6	78.4	79.0
0.2100E 01	18.6	28.9	40.1	50.2	58.5	64.9	69.7	73.2	75.6	77.4	78.6	79.3	79.8
0.2200E 01	19.9	30.6	41.9	52.0	60.2	66.4	71.0	74.4	76.7	78.3	79.4	80.1	80.6
0.2300E 01	21.3	32.3	43.6	53.7	61.7	67.8	72.3	75.4	77.7	79.2	80.2	80.9	81.3
0.2400E 01	22.6	33.9	45.3	55.3	63.2	69.1	73.4	76.4	78.6	80.0	80.9	81.5	81.9
0.2500E 01	23.9	35.5	46.9	56.8	64.5	70.3	74.4	77.3	79.3	80.7	81.6	82.1	82.5
0.2600E 01	25.3	37.0	48.5	58.3	65.8	71.4	75.4	78.2	80.1	81.3	82.2	82.7	83.0
0.2700E 01	26.6	38.5	50.0	59.6	67.0	72.5	76.3	78.9	80.7	81.9	82.7	83.2	83.5
0.2800E 01	27.9	40.0	51.5	60.9	68.2	73.4	77.1	79.6	81.4	82.5	83.2	83.6	83.9
0.2900E 01	29.2	41.4	52.9	62.2	69.2	74.3	77.9	80.3	81.9	83.0	83.7	84.1	84.3
0.3000E 01	30.5	42.8	54.2	63.4	70.2	75.2	78.6	80.9	82.4	83.4	84.1	84.4	84.7
0.3100E 01	31.7	44.2	55.5	64.5	71.2	75.9	79.2	81.4	82.9	83.8	84.4	84.8	85.0
0.3200E 01	33.0	45.5	56.7	65.6	72.1	76.7	79.8	81.9	83.3	84.2	84.6	85.1	85.3
0.3300E 01	34.2	46.8	57.9	66.6	72.9	77.3	80.4	82.4	83.7	84.6	85.1	85.4	85.6
0.3400E 01	35.4	48.1	59.0	67.5	73.7	78.0	80.9	82.8	84.1	84.9	85.4	85.7	85.9
0.3500E 01	36.6	49.3	60.1	68.4	74.4	78.6	81.4	83.2	84.5	85.2	85.7	86.0	86.1

-20. LOG /T/ VI.AM.O/W**2D= 0.400000E 00 Y= 0.

D/LAM.O W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.3	0.5	0.8	1.1	1.4	1.9	2.4	3.0	3.7	4.4	5.1	5.9
0.2000E 00	0.7	1.2	1.9	2.8	3.8	5.0	6.3	7.7	9.1	10.6	12.0	13.4	14.8
0.3000E 00	1.4	2.4	3.8	5.4	7.4	9.4	11.5	13.6	15.6	17.6	19.5	21.3	22.9
0.4000E 00	2.0	3.6	5.8	8.4	11.2	14.0	16.7	19.3	21.8	24.1	26.2	28.2	29.9
0.5000E 00	2.6	4.9	7.9	11.4	14.9	18.4	21.6	24.6	27.4	29.8	32.1	34.0	35.7
0.6000E 00	3.2	6.1	10.1	14.3	18.6	22.5	26.1	29.4	32.3	34.8	37.0	38.9	40.5
0.7000E 00	3.8	7.3	12.1	17.2	22.0	26.4	30.3	33.7	36.6	39.1	41.2	42.9	44.3
0.8000E 00	4.6	8.7	14.2	19.9	25.2	29.9	34.0	37.4	40.4	42.8	44.7	46.3	47.5
0.9000E 00	5.6	10.2	16.3	22.5	28.2	33.1	37.3	40.8	43.8	45.9	47.7	49.0	50.1
0.1000E 01	6.8	11.8	18.4	25.1	31.0	36.1	40.3	43.7	46.4	48.5	50.1	51.4	52.3
0.1100E 01	8.0	13.6	20.6	27.5	33.6	38.8	42.9	46.2	48.8	50.8	52.2	53.3	54.1
0.1200E 01	9.2	15.3	22.7	29.8	36.1	41.2	45.3	48.5	50.9	52.7	54.0	55.0	55.6
0.1300E 01	10.5	17.0	24.7	32.1	38.3	43.4	47.4	50.4	52.7	54.3	55.5	56.4	56.9
0.1400E 01	11.7	18.8	26.7	34.1	40.4	45.4	49.2	52.1	54.2	55.8	56.8	57.6	58.1
0.1500E 01	13.0	20.4	28.6	36.1	42.3	47.2	50.9	53.6	55.6	57.0	58.0	58.6	59.0
0.1600E 01	14.3	22.1	30.4	38.0	44.1	48.8	52.4	54.9	56.8	58.1	58.9	59.5	59.9
0.1700E 01	15.6	23.8	32.2	39.7	45.7	50.3	53.7	56.1	57.8	59.1	59.8	60.3	60.6
0.1800E 01	17.0	25.4	33.9	41.3	47.2	51.6	54.8	57.1	58.7	59.8	60.5	61.0	61.3
0.1900E 01	18.3	27.0	35.5	42.8	48.6	52.8	55.9	58.0	59.5	60.5	61.2	61.6	61.8
0.2000E 01	19.6	28.5	37.1	44.3	49.8	53.9	56.8	58.9	60.2	61.1	61.7	62.1	62.3
0.2100E 01	20.9	30.0	38.5	45.6	51.0	54.9	57.7	59.6	60.9	61.7	62.3	62.6	62.8
0.2200E 01	22.2	31.4	39.9	46.8	52.1	55.8	58.4	60.2	61.4	62.2	62.7	63.0	63.2
0.2300E 01	23.5	32.8	41.2	48.0	53.0	56.6	59.1	60.8	61.9	62.7	63.1	63.4	63.5
0.2400E 01	24.7	34.1	42.5	49.1	53.9	57.4	59.7	61.3	62.4	63.1	63.5	63.7	63.9
0.2500E 01	26.0	35.4	43.6	50.1	54.8	58.1	60.3	61.8	62.8	63.4	63.8	64.0	64.2
0.2600E 01	27.2	36.6	44.7	51.0	55.5	58.7	60.8	62.2	63.1	63.7	64.1	64.3	64.4
0.2700E 01	28.4	37.8	45.8	51.9	56.2	59.2	61.3	62.6	63.5	64.0	64.4	64.6	64.7
0.2800E 01	29.5	38.9	46.8	52.7	56.9	59.8	61.7	63.0	63.8	64.3	64.6	64.8	64.9
0.2900E 01	30.6	40.0	47.7	53.5	57.5	60.3	62.1	63.3	64.1	64.5	64.8	65.0	65.1
0.3000E 01	31.7	41.1	48.6	54.2	58.1	60.7	62.4	63.6	64.3	64.8	65.0	65.2	65.3
0.3100E 01	32.8	42.1	49.5	54.9	58.6	61.1	62.8	63.8	64.5	65.0	65.2	65.4	65.4
0.3200E 01	33.8	43.0	50.3	55.5	59.1	61.5	63.1	64.1	64.7	65.2	65.4	65.5	65.6
0.3300E 01	34.8	43.9	51.0	56.1	59.5	61.8	63.3	64.3	64.9	65.3	65.6	65.7	65.7
0.3400E 01	35.8	44.8	51.7	56.6	60.0	62.2	63.6	64.5	65.1	65.5	65.7	65.8	65.9
0.3500E 01	36.7	45.6	52.4	57.1	60.4	62.5	63.8	64.7	65.3	65.6	65.8	65.9	66.0

-20. LOG /T/ VLAM.0/W**2D= 0.500000E 00 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.4	0.5	0.8	1.1	1.5	2.0	2.5	3.1	3.8	4.5	5.2	6.0
0.2000E 00	0.8	1.3	2.0	2.9	3.9	5.2	6.5	7.8	9.2	10.6	12.0	13.4	14.6
0.3000E 00	1.5	2.6	4.0	5.7	7.6	9.6	11.6	13.6	15.6	17.4	19.1	20.7	22.1
0.4000E 00	2.2	3.9	6.1	8.7	11.4	14.1	16.6	19.0	21.3	23.3	25.1	26.7	28.1
0.5000E 00	2.9	5.3	8.3	11.7	15.0	18.2	21.2	23.9	26.2	28.3	30.1	31.6	32.8
0.6000E 00	3.6	6.7	10.5	14.6	18.5	22.1	25.2	28.0	30.4	32.4	34.0	35.4	36.5
0.7000E 00	4.4	8.1	12.7	17.3	21.6	25.5	28.8	31.6	33.9	35.7	37.2	38.4	39.3
0.8000E 00	5.4	9.6	14.8	19.9	24.5	28.5	31.9	34.6	36.8	38.5	39.8	40.8	41.6
0.9000E 00	6.6	11.2	16.8	22.3	27.2	31.2	34.5	37.1	39.2	40.7	41.9	42.8	43.4
0.1000E 01	7.9	12.9	18.9	24.6	29.6	33.6	36.8	39.3	41.2	42.6	43.6	44.3	44.8
0.1100E 01	9.2	14.6	20.9	26.8	31.7	35.7	38.8	41.1	42.9	44.1	45.0	45.6	46.1
0.1200E 01	10.5	16.4	22.8	28.7	33.7	37.6	40.5	42.7	44.3	45.4	46.2	46.7	47.1
0.1300E 01	11.8	18.0	24.7	30.6	35.4	39.2	42.0	44.0	45.5	46.5	47.2	47.6	47.9
0.1400E 01	13.1	19.7	26.4	32.3	37.0	40.6	43.3	45.1	46.5	47.4	48.0	48.4	48.6
0.1500E 01	14.4	21.2	28.0	33.9	38.5	41.9	44.4	46.1	47.3	48.1	48.7	49.0	49.2
0.1600E 01	15.7	22.8	29.6	35.3	39.7	43.0	45.3	46.9	48.1	48.8	49.3	49.6	49.8
0.1700E 01	17.0	24.2	31.0	36.6	40.9	44.0	46.2	47.7	48.7	49.4	49.8	50.1	50.2
0.1800E 01	18.3	25.7	32.4	37.8	41.9	44.9	46.9	48.3	49.2	49.8	50.2	50.5	50.6
0.1900E 01	19.6	27.0	33.7	39.0	42.9	45.7	47.6	48.9	49.7	50.3	50.6	50.8	50.9
0.2000E 01	20.8	28.3	34.9	40.0	43.7	46.3	48.1	49.3	50.1	50.6	51.0	51.1	51.2
0.2100E 01	22.0	29.5	36.0	40.9	44.5	47.0	48.7	49.8	50.5	51.0	51.3	51.4	51.5
0.2200E 01	23.1	30.7	37.0	41.8	45.2	47.5	49.1	50.2	50.8	51.3	51.5	51.7	51.8
0.2300E 01	24.3	31.8	38.0	42.6	45.8	48.0	49.5	50.5	51.1	51.5	51.8	51.9	52.0
0.2400E 01	25.4	32.8	38.9	43.3	46.4	48.5	49.9	50.8	51.4	51.7	52.0	52.1	52.2
0.2500E 01	26.4	33.8	39.7	44.0	46.9	48.9	50.2	51.1	51.6	52.0	52.2	52.3	52.3
0.2600E 01	27.4	34.8	40.5	44.6	47.4	49.3	50.5	51.3	51.8	52.1	52.3	52.4	52.5
0.2700E 01	28.4	35.6	41.2	45.1	47.8	49.6	50.8	51.5	52.0	52.3	52.5	52.6	52.6
0.2800E 01	29.4	36.5	41.9	45.7	48.2	49.9	51.0	51.7	52.2	52.4	52.6	52.7	52.7
0.2900E 01	30.3	37.3	42.5	46.2	48.6	50.2	51.2	51.9	52.3	52.6	52.7	52.8	52.9
0.3000E 01	31.2	38.0	43.1	46.6	48.9	50.5	51.4	52.1	52.5	52.7	52.9	52.9	53.0
0.3100E 01	32.0	38.7	43.7	47.0	49.2	50.7	51.6	52.2	52.6	52.8	53.0	53.0	53.1
0.3200E 01	32.8	39.4	44.2	47.4	49.5	50.9	51.8	52.4	52.7	52.9	53.0	53.1	53.1
0.3300E 01	33.6	40.0	44.7	47.8	49.8	51.1	51.9	52.5	52.8	53.0	53.1	53.2	53.2
0.3400E 01	34.3	40.6	45.1	48.1	50.0	51.3	52.1	52.6	52.9	53.1	53.2	53.3	53.3
0.3500E 01	35.0	41.2	45.5	48.4	50.3	51.5	52.2	52.7	53.0	53.2	53.3	53.3	53.4

-20. LOG /T/ VLAM.O/W**2D= 0.600000E 00 Y= 0.

D/LAM.O W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.4	0.6	0.8	1.2	1.6	2.1	2.6	3.2	3.9	4.6	5.3	6.1
0.2000E 00	0.8	1.4	2.1	3.0	4.1	5.3	6.6	8.0	9.3	10.7	12.0	13.2	14.4
0.3000E 00	1.6	2.7	4.1	5.9	7.8	9.7	11.7	13.6	15.4	17.0	18.6	20.0	21.2
0.4000E 00	2.4	4.2	6.4	8.9	11.5	14.0	16.4	18.6	20.6	22.4	23.9	25.2	26.3
0.5000E 00	3.2	5.7	8.7	11.9	15.0	18.0	20.6	22.9	24.9	26.6	28.0	29.2	30.2
0.6000E 00	4.1	7.2	10.9	14.7	18.2	21.4	24.2	26.5	28.4	30.0	31.4	32.2	32.9
0.7000E 00	5.0	8.7	13.0	17.3	21.1	24.4	27.2	29.4	31.2	32.6	33.7	34.5	35.1
0.8000E 00	6.1	10.3	15.0	19.6	23.7	27.0	29.7	31.8	33.5	34.7	35.6	36.3	36.7
0.9000E 00	7.4	11.9	17.0	21.8	25.9	29.2	31.8	33.8	35.3	36.3	37.1	37.7	38.0
0.1000E 01	8.7	13.6	19.0	23.8	27.9	31.1	33.6	35.4	36.7	37.7	38.3	38.8	39.1
0.1100E 01	10.0	15.3	20.8	25.7	29.7	32.8	35.1	36.7	37.9	38.7	39.3	39.7	39.9
0.1200E 01	11.4	16.9	22.5	27.4	31.2	34.2	36.3	37.8	38.9	39.6	40.1	40.4	40.6
0.1300E 01	12.7	18.5	24.1	28.9	32.6	35.4	37.3	38.7	39.7	40.3	40.8	41.0	41.2
0.1400E 01	14.0	19.9	25.6	30.2	33.8	36.4	38.2	39.5	40.4	40.9	41.3	41.5	41.7
0.1500E 01	15.2	21.4	26.9	31.5	34.9	37.3	39.0	40.2	40.9	41.4	41.8	42.0	42.1
0.1600E 01	16.5	22.7	28.2	32.6	35.8	38.1	39.7	40.7	41.4	41.9	42.2	42.3	42.4
0.1700E 01	17.7	24.0	29.4	33.6	36.6	38.8	40.2	41.2	41.8	42.2	42.5	42.7	42.7
0.1800E 01	18.9	25.2	30.5	34.5	37.4	39.4	40.7	41.6	42.2	42.6	42.8	42.9	43.0
0.1900E 01	20.0	26.3	31.4	35.3	38.0	39.9	41.1	42.0	42.5	42.8	43.0	43.2	43.2
0.2000E 01	21.1	27.3	32.3	36.0	38.6	40.4	41.5	42.3	42.8	43.1	43.3	43.4	43.4
0.2100E 01	22.2	28.3	33.2	36.7	39.1	40.8	41.8	42.5	43.0	43.3	43.4	43.5	43.6
0.2200E 01	23.2	29.2	33.9	37.3	39.6	41.1	42.1	42.8	43.2	43.5	43.6	43.7	43.7
0.2300E 01	24.2	30.1	34.6	37.9	40.0	41.5	42.4	43.0	43.4	43.6	43.8	43.8	43.9
0.2400E 01	25.1	30.9	35.3	38.4	40.4	41.7	42.6	43.2	43.5	43.8	43.9	44.0	44.0
0.2500E 01	26.0	31.7	35.9	38.8	40.7	42.0	42.8	43.4	43.7	43.9	44.0	44.1	44.1
0.2600E 01	26.8	32.4	36.4	39.2	41.1	42.2	43.0	43.5	43.8	44.0	44.1	44.2	44.2
0.2700E 01	27.6	33.0	37.0	39.6	41.3	42.5	43.2	43.6	43.9	44.1	44.2	44.3	44.3
0.2800E 01	28.3	33.7	37.4	40.0	41.6	42.7	43.3	43.8	44.0	44.2	44.3	44.3	44.4
0.2900E 01	29.0	34.2	37.9	40.3	41.8	42.8	43.5	43.9	44.1	44.3	44.4	44.4	44.4
0.3000E 01	29.7	34.8	38.3	40.6	42.0	43.0	43.6	44.0	44.2	44.4	44.4	44.5	44.5
0.3100E 01	30.4	35.3	38.6	40.8	42.2	43.1	43.7	44.1	44.3	44.4	44.5	44.5	44.6
0.3200E 01	31.0	35.8	39.0	41.1	42.4	43.3	43.8	44.1	44.4	44.5	44.6	44.6	44.6
0.3300E 01	31.6	36.2	39.3	41.3	42.6	43.4	43.9	44.2	44.4	44.5	44.6	44.6	44.7
0.3400E 01	32.1	36.6	39.6	41.5	42.7	43.5	44.0	44.3	44.5	44.6	44.7	44.7	44.7
0.3500E 01	32.6	37.0	39.9	41.7	42.9	43.6	44.1	44.4	44.5	44.6	44.7	44.7	44.7

-20. LOG /T/ VLAM.O/W**2D= 0.700000E 00 Y= 0.

D/LAM.O \ W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.4	0.6	0.9	1.2	1.6	2.1	2.7	3.3	4.0	4.7	5.4	6.2
0.2000E 00	0.9	1.4	2.2	3.1	4.2	5.4	6.7	8.0	9.4	10.6	11.9	13.0	14.1
0.3000E 00	1.7	2.9	4.3	6.0	7.9	9.8	11.7	13.5	15.1	16.6	18.0	19.2	20.2
0.4000E 00	2.6	4.4	6.6	9.1	11.6	14.0	16.2	18.1	19.9	21.4	22.6	23.7	24.6
0.5000E 00	3.5	6.0	8.9	12.0	14.9	17.6	20.0	22.0	23.6	25.0	26.1	27.0	27.7
0.6000E 00	4.5	7.5	11.1	14.6	17.9	20.7	23.1	25.0	26.5	27.7	28.7	29.4	29.9
0.7000E 00	5.5	9.1	13.2	17.0	20.5	23.3	25.6	27.4	28.8	29.8	30.6	31.1	31.5
0.8000E 00	6.7	10.7	15.1	19.2	22.7	25.5	27.6	29.3	30.5	31.4	32.0	32.5	32.8
0.9000E 00	8.0	12.4	17.0	21.2	24.6	27.3	29.3	30.8	31.9	32.6	33.2	33.5	33.8
0.1000E 01	9.4	14.0	18.7	22.9	26.2	28.8	30.7	32.0	33.0	33.6	34.1	34.3	34.5
0.1100E 01	10.7	15.6	20.4	24.5	27.7	30.0	31.8	33.0	33.8	34.4	34.8	35.0	35.1
0.1200E 01	12.0	17.1	21.9	25.9	28.9	31.1	32.7	33.8	34.5	35.0	35.3	35.5	35.6
0.1300E 01	13.3	18.5	23.2	27.1	30.0	32.0	33.4	34.4	35.1	35.5	35.8	36.0	36.1
0.1400E 01	14.5	19.8	24.5	28.2	30.9	32.8	34.1	35.0	35.6	35.9	36.2	36.3	36.4
0.1500E 01	15.7	21.0	25.6	29.1	31.7	33.4	34.6	35.4	36.0	36.3	36.5	36.6	36.7
0.1600E 01	16.9	22.2	26.6	30.0	32.4	34.0	35.1	35.8	36.3	36.6	36.8	36.9	36.9
0.1700E 01	18.0	23.3	27.6	30.7	33.0	34.5	35.5	36.1	36.6	36.8	37.0	37.1	37.1
0.1800E 01	19.0	24.3	28.4	31.4	33.5	34.9	35.8	36.4	36.8	37.0	37.2	37.3	37.3
0.1900E 01	20.0	25.2	29.2	32.0	34.0	35.3	36.1	36.7	37.0	37.2	37.4	37.4	37.5
0.2000E 01	21.0	26.0	29.9	32.6	34.4	35.6	36.4	36.9	37.2	37.4	37.5	37.6	37.6
0.2100E 01	21.9	26.8	30.5	33.0	34.7	35.9	36.6	37.1	37.4	37.5	37.6	37.7	37.7
0.2200E 01	22.7	27.5	31.1	33.5	35.1	36.1	36.8	37.2	37.5	37.7	37.8	37.8	37.8
0.2300E 01	23.5	28.2	31.6	33.9	35.4	36.3	37.0	37.4	37.6	37.8	37.9	37.9	37.9
0.2400E 01	24.3	28.8	32.1	34.2	35.6	36.5	37.1	37.5	37.7	37.9	37.9	38.0	38.0
0.2500E 01	25.0	29.4	32.5	34.5	35.9	36.7	37.3	37.6	37.8	37.9	38.0	38.1	38.1
0.2600E 01	25.7	29.9	32.9	34.8	36.1	36.9	37.4	37.7	37.9	38.0	38.1	38.1	38.1
0.2700E 01	26.3	30.4	33.3	35.1	36.3	37.0	37.5	37.8	38.0	38.1	38.1	38.2	38.2
0.2800E 01	26.9	30.9	33.6	35.3	36.4	37.1	37.6	37.9	38.0	38.1	38.2	38.2	38.2
0.2900E 01	27.4	31.3	33.9	35.6	36.6	37.3	37.7	37.9	38.1	38.2	38.3	38.3	38.3
0.3000E 01	28.0	31.7	34.2	35.8	36.7	37.4	37.8	38.0	38.2	38.2	38.3	38.3	38.3
0.3100E 01	28.5	32.1	34.4	35.9	36.9	37.5	37.8	38.1	38.2	38.3	38.3	38.4	38.4
0.3200E 01	28.9	32.4	34.7	36.1	37.0	37.6	37.9	38.1	38.3	38.3	38.4	38.4	38.4
0.3300E 01	29.4	32.8	34.9	36.3	37.1	37.6	38.0	38.2	38.3	38.4	38.4	38.4	38.4
0.3400E 01	29.8	33.0	35.1	36.4	37.2	37.7	38.0	38.2	38.3	38.4	38.4	38.5	38.5
0.3500E 01	30.2	33.3	35.3	36.5	37.3	37.8	38.1	38.3	38.4	38.4	38.5	38.5	38.5

-20. LOG /T/ VLAM.O/W**2D= 0.800000E 00 Y= 0.

D/LAM.O W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.3	0.4	0.6	0.9	1.3	1.7	2.2	2.8	3.4	4.1	4.8	5.5	6.2
0.2000E 00	0.9	1.5	2.3	3.2	4.3	5.5	6.8	8.1	9.4	10.6	11.7	12.8	13.8
0.3000E 00	1.8	3.0	4.5	6.2	8.0	9.8	11.6	13.3	14.8	16.1	17.3	18.4	19.2
0.4000E 00	2.8	4.6	6.8	9.2	11.6	13.8	15.8	17.6	19.1	20.4	21.4	22.3	23.0
0.5000E 00	3.8	6.3	9.1	12.0	14.7	17.2	19.2	20.9	22.3	23.5	24.3	25.0	25.5
0.6000E 00	4.8	7.9	11.2	14.5	17.4	19.9	21.9	23.5	24.8	25.7	26.4	26.9	27.3
0.7000E 00	5.9	9.4	13.2	16.7	19.7	22.1	24.0	25.5	26.6	27.3	27.9	28.3	28.6
0.8000E 00	7.2	11.0	15.1	18.7	21.6	23.9	25.7	27.0	27.9	28.6	29.0	29.3	29.6
0.9000E 00	8.5	12.6	16.8	20.4	23.2	25.4	27.0	28.2	29.0	29.5	29.9	30.1	30.3
0.1000E 01	9.8	14.2	18.4	21.9	24.6	26.6	28.1	29.1	29.8	30.3	30.6	30.8	30.9
0.1100E 01	11.1	15.6	19.8	23.2	25.8	27.6	28.9	29.8	30.4	30.8	31.1	31.3	31.3
0.1200E 01	12.4	17.0	21.1	24.3	26.7	28.4	29.6	30.4	30.9	31.3	31.5	31.6	31.7
0.1300E 01	13.6	18.2	22.2	25.3	27.6	29.1	30.2	30.9	31.4	31.7	31.8	32.0	32.0
0.1400E 01	14.7	19.4	23.3	26.2	28.3	29.7	30.7	31.3	31.7	32.0	32.1	32.2	32.3
0.1500E 01	15.8	20.5	24.2	27.0	28.9	30.2	31.0	31.6	32.0	32.2	32.4	32.4	32.5
0.1600E 01	16.9	21.4	25.0	27.6	29.4	30.6	31.4	31.9	32.2	32.4	32.6	32.6	32.7
0.1700E 01	17.9	22.3	25.8	28.2	29.9	30.9	31.7	32.1	32.4	32.6	32.7	32.8	32.8
0.1800E 01	18.8	23.2	26.4	28.7	30.2	31.3	31.9	32.3	32.6	32.8	32.9	32.9	32.9
0.1900E 01	19.7	23.9	27.0	29.2	30.6	31.5	32.1	32.5	32.7	32.9	33.0	33.0	33.0
0.2000E 01	20.5	24.6	27.6	29.6	30.9	31.7	32.3	32.6	32.9	33.0	33.1	33.1	33.1
0.2100E 01	21.2	25.2	28.0	29.9	31.2	31.9	32.5	32.8	33.0	33.1	33.2	33.2	33.2
0.2200E 01	21.9	25.8	28.5	30.2	31.4	32.1	32.6	32.9	33.1	33.2	33.3	33.3	33.3
0.2300E 01	22.6	26.3	28.9	30.5	31.6	32.3	32.7	33.0	33.2	33.3	33.3	33.4	33.4
0.2400E 01	23.2	26.8	29.2	30.8	31.9	32.4	32.8	33.1	33.2	33.3	33.4	33.4	33.4
0.2500E 01	23.8	27.2	29.5	31.0	32.0	32.5	32.9	33.2	33.3	33.4	33.4	33.5	33.5
0.2600E 01	24.3	27.6	29.8	31.2	32.1	32.7	33.0	33.2	33.4	33.4	33.5	33.5	33.5
0.2700E 01	24.8	28.0	30.1	31.4	32.2	32.8	33.1	33.3	33.4	33.5	33.5	33.6	33.6
0.2800E 01	25.3	28.4	30.3	31.6	32.4	32.8	33.2	33.3	33.5	33.5	33.6	33.6	33.6
0.2900E 01	25.8	28.7	30.6	31.7	32.5	32.9	33.2	33.4	33.5	33.6	33.6	33.6	33.6
0.3000E 01	26.2	29.0	30.8	31.9	32.6	33.0	33.3	33.4	33.5	33.6	33.6	33.7	33.7
0.3100E 01	26.5	29.3	31.0	32.0	32.7	33.1	33.3	33.5	33.6	33.6	33.7	33.7	33.7
0.3200E 01	26.9	29.5	31.1	32.1	32.7	33.1	33.4	33.5	33.6	33.7	33.7	33.7	33.7
0.3300E 01	27.2	29.7	31.3	32.2	32.8	33.2	33.4	33.6	33.6	33.7	33.7	33.7	33.7
0.3400E 01	27.6	30.0	31.4	32.3	32.9	33.2	33.5	33.6	33.7	33.7	33.7	33.8	33.8
0.3500E 01	27.9	30.2	31.6	32.4	33.0	33.3	33.5	33.6	33.7	33.7	33.8	33.8	33.8

-20. LOG /T/ VLAM.0/W**2D= 0.900000E 00 Y= 0.

D/LAM.0 W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.2	0.4	0.6	0.9	1.3	1.7	2.3	2.8	3.5	4.2	4.9	5.6	6.3
0.2000E 00	1.0	1.6	2.4	3.3	4.4	5.5	6.9	8.1	9.3	10.5	11.6	12.5	13.4
0.3000E 00	1.9	3.1	4.6	6.3	8.1	9.8	11.5	13.0	14.4	15.6	16.7	17.6	18.3
0.4000E 00	3.0	4.8	7.0	9.3	11.5	13.6	15.4	17.0	18.3	19.4	20.2	20.9	21.5
0.5000E 00	4.0	6.5	9.2	12.0	14.5	16.7	18.5	19.9	21.1	22.0	22.7	23.2	23.8
0.6000E 00	5.1	8.1	11.3	14.3	16.9	19.1	20.8	22.1	23.1	23.9	24.4	24.8	25.0
0.7000E 00	6.3	9.7	13.2	16.3	18.9	21.0	22.6	23.7	24.6	25.2	25.6	25.9	26.1
0.8000E 00	7.5	11.2	14.9	18.1	20.6	22.5	23.9	24.9	25.7	26.2	26.5	26.7	26.9
0.9000E 00	8.9	12.8	16.5	19.5	21.9	23.7	25.0	25.9	26.5	26.9	27.2	27.3	27.4
0.1000E 01	10.2	14.2	17.9	20.8	23.1	24.7	25.8	26.6	27.1	27.5	27.7	27.8	27.9
0.1100E 01	11.4	15.5	19.1	21.9	24.0	25.5	26.5	27.2	27.6	27.9	28.1	28.2	28.3
0.1200E 01	12.6	16.7	20.2	22.9	24.8	26.1	27.0	27.6	28.0	28.2	28.4	28.5	28.5
0.1300E 01	13.7	17.8	21.2	23.7	25.4	26.6	27.4	28.0	28.3	28.5	28.7	28.7	28.8
0.1400E 01	14.8	18.8	22.0	24.4	26.0	27.1	27.8	28.3	28.6	28.7	28.9	28.9	29.0
0.1500E 01	15.8	19.7	22.8	25.0	26.5	27.4	28.1	28.5	28.8	28.9	29.0	29.1	29.1
0.1600E 01	16.7	20.6	23.5	25.5	26.9	27.8	28.3	28.7	28.9	29.1	29.2	29.2	29.3
0.1700E 01	17.6	21.3	24.1	25.9	27.2	28.0	28.5	28.9	29.1	29.2	29.3	29.3	29.4
0.1800E 01	18.4	22.0	24.6	26.3	27.5	28.2	28.7	29.0	29.2	29.3	29.4	29.4	29.5
0.1900E 01	19.1	22.6	25.1	26.7	27.8	28.4	28.9	29.2	29.3	29.4	29.5	29.5	29.5
0.2000E 01	19.8	23.2	25.5	27.0	28.0	28.6	29.0	29.3	29.4	29.5	29.6	29.6	29.6
0.2100E 01	20.4	23.7	25.8	27.3	28.2	28.8	29.1	29.4	29.5	29.6	29.6	29.7	29.7
0.2200E 01	21.0	24.1	26.2	27.5	28.4	28.9	29.2	29.4	29.6	29.7	29.7	29.7	29.7
0.2300E 01	21.6	24.5	26.5	27.7	28.5	29.0	29.3	29.5	29.6	29.7	29.7	29.8	29.8
0.2400E 01	22.1	24.9	26.7	27.9	28.6	29.1	29.4	29.6	29.7	29.8	29.8	29.8	29.8
0.2500E 01	22.5	25.2	27.0	28.1	28.8	29.2	29.5	29.6	29.7	29.8	29.8	29.9	29.9
0.2600E 01	23.0	25.6	27.2	28.2	28.9	29.3	29.5	29.7	29.8	29.8	29.9	29.9	29.9
0.2700E 01	23.4	25.8	27.4	28.4	29.0	29.3	29.6	29.7	29.8	29.9	29.9	29.9	29.9
0.2800E 01	23.8	26.1	27.6	28.5	29.1	29.4	29.6	29.8	29.9	29.9	29.9	29.9	29.9
0.2900E 01	24.1	26.4	27.8	28.6	29.1	29.5	29.7	29.8	29.9	29.9	30.0	30.0	30.0
0.3000E 01	24.4	26.6	27.9	28.7	29.2	29.5	29.7	29.8	29.9	30.0	30.0	30.0	30.0
0.3100E 01	24.7	26.8	28.0	28.8	29.3	29.6	29.8	29.9	29.9	30.0	30.0	30.0	30.0
0.3200E 01	25.0	27.0	28.2	28.9	29.3	29.6	29.8	29.9	30.0	30.0	30.0	30.0	30.0
0.3300E 01	25.3	27.1	28.3	29.0	29.4	29.7	29.8	29.9	30.0	30.0	30.0	30.0	30.0
0.3400E 01	25.5	27.3	28.4	29.1	29.5	29.7	29.8	29.9	30.0	30.0	30.1	30.1	30.1
0.3500E 01	25.7	27.5	28.5	29.1	29.5	29.7	29.9	30.0	30.0	30.0	30.1	30.1	30.1

-20. LOG /T/ VLAM.O/W**20= 0.100000E 01 Y= 0.

D/LAM.O \ W	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00
0.1000E 00	0.3	0.4	0.7	1.0	1.4	1.8	2.3	2.9	3.5	4.2	4.9	5.6	6.3
0.2000E 00	1.0	1.6	2.4	3.4	4.5	5.7	6.9	8.1	9.3	10.4	11.3	12.2	13.0
0.3000E 00	2.0	3.2	4.7	6.4	8.1	9.8	11.4	12.8	14.0	15.1	16.0	16.8	17.4
0.4000E 00	3.1	5.0	7.1	9.3	11.4	13.3	15.0	16.4	17.5	18.4	19.1	19.7	20.1
0.5000E 00	4.2	6.7	9.3	11.9	14.2	16.1	17.7	19.0	19.9	20.7	21.2	21.6	21.9
0.6000E 00	5.4	8.3	11.3	14.1	16.4	18.3	19.7	20.8	21.6	22.2	22.6	22.9	23.1
0.7000E 00	6.6	9.8	13.1	15.9	18.2	19.9	21.2	22.2	22.8	23.3	23.6	23.8	24.0
0.8000E 00	7.8	11.3	14.6	17.4	19.6	21.2	22.3	23.1	23.7	24.1	24.3	24.5	24.6
0.9000E 00	9.1	12.7	16.0	18.7	20.7	22.2	23.2	23.9	24.3	24.7	24.9	25.0	25.1
0.1000E 01	10.4	14.1	17.3	19.8	21.6	22.9	23.8	24.4	24.8	25.1	25.3	25.4	25.4
0.1100E 01	11.6	15.3	18.4	20.7	22.4	23.6	24.4	24.9	25.2	25.4	25.6	25.7	25.7
0.1200E 01	12.7	16.4	19.3	21.5	23.0	24.1	24.8	25.2	25.5	25.7	25.8	25.9	25.9
0.1300E 01	13.7	17.3	20.1	22.2	23.6	24.5	25.1	25.5	25.8	25.9	26.0	26.1	26.1
0.1400E 01	14.7	18.2	20.8	22.7	24.0	24.8	25.4	25.7	26.0	26.1	26.2	26.2	26.3
0.1500E 01	15.5	19.0	21.5	23.2	24.4	25.1	25.6	25.9	26.1	26.2	26.3	26.4	26.4
0.1600E 01	16.4	19.7	22.0	23.6	24.7	25.4	25.8	26.1	26.3	26.4	26.4	26.5	26.5
0.1700E 01	17.1	20.3	22.5	24.0	24.9	25.6	26.0	26.2	26.4	26.5	26.5	26.6	26.6
0.1800E 01	17.8	20.8	22.9	24.3	25.2	25.7	26.1	26.3	26.5	26.5	26.6	26.6	26.6
0.1900E 01	18.4	21.3	23.3	24.6	25.4	25.9	26.2	26.4	26.5	26.6	26.7	26.7	26.7
0.2000E 01	19.0	21.8	23.6	24.8	25.5	26.0	26.3	26.5	26.6	26.7	26.7	26.7	26.8
0.2100E 01	19.6	22.2	23.9	25.0	25.7	26.1	26.4	26.6	26.7	26.7	26.8	26.8	26.8
0.2200E 01	20.1	22.5	24.2	25.2	25.8	26.2	26.5	26.6	26.7	26.8	26.8	26.8	26.8
0.2300E 01	20.5	22.9	24.4	25.3	25.9	26.3	26.5	26.7	26.8	26.8	26.9	26.9	26.9
0.2400E 01	20.9	23.2	24.6	25.5	26.0	26.4	26.6	26.7	26.8	26.9	26.9	26.9	26.9
0.2500E 01	21.3	23.4	24.8	25.6	26.1	26.5	26.7	26.8	26.9	26.9	26.9	26.9	26.9
0.2600E 01	21.7	23.7	25.0	25.7	26.2	26.5	26.7	26.8	26.9	26.9	26.9	27.0	27.0
0.2700E 01	22.0	23.9	25.1	25.8	26.3	26.6	26.7	26.8	26.9	27.0	27.0	27.0	27.0
0.2800E 01	22.3	24.1	25.2	25.9	26.4	26.6	26.8	26.9	26.9	27.0	27.0	27.0	27.0
0.2900E 01	22.5	24.3	25.4	26.0	26.4	26.7	26.8	26.9	27.0	27.0	27.0	27.0	27.0
0.3000E 01	22.8	24.5	25.5	26.1	26.5	26.7	26.8	26.9	27.0	27.0	27.0	27.0	27.0
0.3100E 01	23.0	24.6	25.6	26.2	26.5	26.7	26.9	27.0	27.0	27.0	27.0	27.1	27.1
0.3200E 01	23.3	24.8	25.7	26.2	26.6	26.8	26.9	27.0	27.0	27.0	27.1	27.1	27.1
0.3300E 01	23.5	24.9	25.8	26.3	26.6	26.8	26.9	27.0	27.0	27.1	27.1	27.1	27.1
0.3400E 01	23.7	25.0	25.9	26.4	26.6	26.8	26.9	27.0	27.0	27.1	27.1	27.1	27.1
0.3500E 01	23.8	25.2	25.9	26.4	26.7	26.9	27.0	27.0	27.1	27.1	27.1	27.1	27.1

-20. LOG /T/ VLAM.O/W**2D= 0.100000E-02 Y= 0.

D/LAM.O \ W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.0	5.4
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.0	10.4
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	5.9	10.1	13.7
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.0	7.9	12.4	16.2
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.6	14.3	18.1
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.4	20.5	24.5
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.4	2.2	3.1	4.2	14.5	21.9	27.5	32.1
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.7	4.0	5.3	6.7	18.4	26.4	32.7	38.1
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.1	5.7	7.4	9.0	21.5	30.2	37.3	43.7
0.1000E-01	0.1	0.3	1.0	2.1	3.7	5.5	7.3	9.1	10.9	24.2	33.7	41.8	49.2
0.2000E-01	0.3	1.3	3.2	5.8	8.5	11.2	13.7	16.0	18.2	35.7	50.2	63.6	76.5
0.4000E-01	1.0	4.0	8.1	12.3	16.2	19.9	23.3	26.5	29.7	57.6	82.9	107.2	130.7
0.6000E-01	2.2	7.1	12.7	18.0	22.9	27.6	32.1	36.4	40.6	79.4	115.6	150.5	184.3
0.8000E-01	3.6	10.3	17.1	23.5	29.5	35.2	40.7	46.2	51.4	101.2	148.2	193.5	237.0
0.1000E 00	5.2	13.4	21.4	28.8	35.9	42.8	49.4	55.9	62.3	123.0	180.7	236.2	288.6
0.2000E 00	14.2	28.9	42.6	55.6	68.2	80.6	92.7	104.7	116.6	231.5	340.9	440.7	523.8
0.3000E 00	23.6	44.3	63.7	82.3	100.5	118.4	136.0	153.5	170.9	339.3	495.6	625.8	
0.4000E 00	33.0	59.8	84.8	109.1	132.8	156.2	179.3	202.3	225.1	445.9	642.8		
0.5000E 00	42.5	75.2	106.0	135.8	165.1	194.0	222.6	251.0	279.3	551.1			
0.6000E 00	52.0	90.6	127.1	162.5	197.4	231.8	265.9	299.8	333.4	654.5			
0.7000E 00	61.4	106.1	148.3	189.3	229.6	269.5	309.1	348.4	387.5				
0.8000E 00	70.9	121.5	169.4	216.0	261.9	307.3	352.3	397.0	441.4				
0.9000E 00	80.3	137.0	190.5	242.7	294.2	345.0	395.5	445.6	495.3				
0.1000E 01	89.8	152.4	211.7	269.5	326.4	382.8	438.7	494.1	549.0				
0.1100E 01	99.2	167.8	232.8	296.2	358.6	420.5	481.8	542.5	602.7				
0.1200E 01	108.7	183.3	253.9	322.9	390.9	458.2	524.8	590.9	656.2				
0.1300E 01	118.1	198.7	275.1	349.6	423.1	495.8	567.8	639.1					
0.1400E 01	127.6	214.1	296.2	376.3	455.3	533.4	610.8	687.3					
0.1500E 01	137.0	229.6	317.3	403.0	487.5	571.0	653.7						
0.1600E 01	146.5	245.0	338.4	429.7	519.7	608.6	696.5						
0.1700E 01	156.0	260.4	359.6	456.4	551.8	646.1							
0.1800E 01	165.4	275.9	380.7	483.1	584.0	683.6							
0.1900E 01	174.9	291.3	401.8	509.7	616.1								
0.2000E 01	184.3	306.8	422.9	536.4	648.2								

-20. LOG /T/ VLAM.0/W**2D= 0.100000E-01 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.0	5.4
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.1	10.4
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	5.9	10.1	13.7
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	7.9	12.4	16.2
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.6	14.3	18.1
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.4	20.5	24.5
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.4	2.2	3.1	4.2	14.6	21.9	27.5	32.1
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.7	4.0	5.4	6.8	18.4	26.4	32.6	38.0
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.1	5.7	7.4	9.0	21.5	30.2	37.2	43.3
0.1000E-01	0.1	0.3	1.0	2.2	3.7	5.3	7.3	9.2	10.9	24.2	33.6	41.5	48.5
0.2000E-01	0.3	1.3	3.2	5.8	8.6	11.2	13.7	16.0	18.2	35.7	49.8	61.9	71.8
0.4000E-01	1.0	4.0	8.1	12.3	16.2	19.9	23.3	26.6	29.7	57.2	79.9	96.3	105.4
0.6000E-01	2.2	7.1	12.7	18.0	23.0	27.6	32.1	36.4	40.6	78.0	106.4	121.9	127.1
0.8000E-01	3.6	10.3	17.1	23.5	29.5	35.2	40.8	46.1	51.4	98.0	129.0	141.2	142.8
0.1000E 00	5.2	13.4	21.4	28.9	36.0	42.8	49.4	55.9	62.2	117.0	148.1	156.5	153.6
0.2000E 00	14.2	28.9	42.6	55.6	68.2	80.4	92.3	103.9	115.1	195.0	211.2	207.1	202.1
0.3000E 00	23.7	44.4	63.7	82.3	100.2	117.6	134.4	150.5	165.8	249.3	250.7	242.8	237.4
0.4000E 00	33.1	59.8	84.8	108.8	132.0	154.2	175.4	195.2	213.5	289.2	281.6	272.7	267.4
0.5000E 00	42.6	75.3	105.9	135.2	163.3	190.0	215.0	237.7	257.7	320.8	309.3	299.2	294.2
0.6000E 00	52.0	90.7	126.8	161.4	194.2	225.0	253.0	277.6	298.4	347.5	332.3	323.3	318.5
0.7000E 00	61.5	106.1	147.7	187.4	224.6	258.9	289.2	314.9	335.5	371.0	354.3	345.6	341.0
0.8000E 00	71.0	121.5	168.6	213.1	254.5	291.7	323.7	349.6	369.3	392.3	374.8	366.4	362.0
0.9000E 00	80.4	136.8	189.3	238.5	283.6	323.3	356.2	381.8	400.1	412.0	394.2	385.9	381.8
0.1000E 01	89.9	152.1	209.9	263.6	312.1	353.7	387.0	411.6	428.3	430.4	412.5	404.5	400.6
0.1100E 01	99.3	167.4	230.4	288.4	339.9	382.9	416.0	439.3	454.1	447.9	429.9	422.2	418.4
0.1200E 01	108.8	182.7	250.7	312.8	367.0	410.8	443.3	465.0	477.8	464.4	446.6	439.2	435.5
0.1300E 01	118.2	197.9	270.9	336.9	393.2	437.5	469.0	488.9	499.8	480.3	462.7	455.4	451.9
0.1400E 01	127.7	213.1	291.0	360.5	418.7	463.1	493.2	511.2	520.2	495.5	478.2	471.1	467.7
0.1500E 01	137.1	228.2	310.9	383.8	443.5	487.4	516.1	532.1	539.3	510.2	493.1	486.2	482.9
0.1600E 01	146.5	243.3	330.6	406.6	467.4	510.7	537.6	551.7	557.2	524.4	507.5	500.9	497.6
0.1700E 01	155.9	258.4	350.2	429.0	490.6	532.9	558.0	570.2	574.1	538.2	521.6	515.0	511.9
0.1800E 01	165.3	273.4	369.6	450.9	513.0	554.2	577.4	587.7	590.1	551.5	535.2	528.8	525.7
0.1900E 01	174.7	288.4	388.8	472.4	534.6	574.4	595.7	604.3	605.3	564.5	548.4	542.2	539.2
0.2000E 01	184.1	303.3	407.7	493.5	555.6	593.8	613.2	620.1	619.9	577.1	561.3	555.2	552.3

-20. LOG /T/ VLAM.0/W**2D= 0.200000E-01 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.4
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.1	10.4
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	5.9	10.1	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	7.9	12.5	16.2
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.6	14.3	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.4	20.5	24.5
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.4	2.2	3.2	4.2	14.6	21.9	27.5	31.9
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.0	5.4	6.8	18.5	26.4	32.5	37.5
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.1	5.8	7.4	9.0	21.5	30.1	36.8	42.3
0.1000E-01	0.1	0.3	1.0	2.2	3.7	5.5	7.4	9.2	10.9	24.2	33.5	40.9	46.6
0.2000E-01	0.3	1.3	3.2	5.6	8.6	11.2	13.7	16.1	18.2	35.6	48.6	57.8	63.0
0.4000E-01	1.0	4.0	8.2	12.4	16.3	19.9	23.3	26.6	29.7	56.0	72.9	79.7	80.8
0.6000E-01	2.2	7.2	12.8	18.1	23.0	27.6	32.1	36.3	40.5	74.3	90.2	93.0	91.9
0.8000E-01	3.6	10.3	17.2	23.5	29.5	35.2	40.7	46.0	51.1	90.3	103.0	102.9	100.9
0.1000E 00	5.2	13.5	21.4	28.9	36.0	42.7	49.2	55.5	61.6	104.1	113.0	111.2	108.7
0.2000E 00	14.3	29.0	42.6	55.5	67.9	79.7	90.8	101.2	110.7	150.5	147.0	142.7	140.0
0.3000E 00	23.7	44.4	63.7	81.9	99.1	115.1	129.6	142.3	153.1	179.0	171.6	167.2	164.8
0.4000E 00	33.2	59.8	84.5	107.7	129.2	148.4	164.9	178.3	188.4	201.0	192.4	188.2	186.0
0.5000E 00	42.7	75.2	105.2	133.0	158.0	179.4	196.5	209.2	217.8	219.7	210.8	206.8	204.9
0.6000E 00	52.1	90.5	125.7	157.6	185.4	207.9	224.6	235.8	242.4	236.4	227.5	223.8	222.0
0.7000E 00	61.6	105.7	145.8	181.5	211.3	234.0	249.5	258.8	263.4	251.7	243.0	239.5	237.8
0.8000E 00	71.0	120.9	165.7	204.6	235.6	257.8	271.6	278.9	281.8	265.9	257.5	254.2	252.5
0.9000E 00	80.5	135.9	185.2	226.7	258.4	279.4	291.4	296.8	298.1	279.2	271.1	267.9	266.4
0.1000E 01	89.9	150.9	204.3	248.0	279.6	299.2	309.2	312.8	312.9	291.9	284.0	280.9	279.5
0.1100E 01	99.3	165.7	223.0	268.4	299.5	317.3	325.4	327.5	326.4	303.9	296.2	293.3	291.9
0.1200E 01	108.7	180.4	241.2	287.8	318.0	334.0	340.2	340.9	339.0	315.4	308.0	305.2	303.8
0.1300E 01	118.0	195.0	259.1	306.4	335.4	349.4	353.9	353.4	350.7	326.4	319.2	316.5	315.2
0.1400E 01	127.4	209.4	276.5	324.1	351.6	363.7	366.6	365.1	361.8	337.0	330.0	327.4	326.2
0.1500E 01	136.7	223.7	293.4	341.0	366.8	377.0	378.5	376.2	372.4	347.2	340.4	337.9	336.7
0.1600E 01	146.0	237.9	309.3	357.0	381.0	389.5	389.8	386.6	382.5	357.1	350.5	348.0	346.9
0.1700E 01	155.3	251.9	325.8	372.4	394.5	401.2	400.4	396.6	392.1	366.7	360.2	357.9	356.7
0.1800E 01	164.5	265.7	341.4	386.9	407.2	412.3	410.5	406.2	401.4	376.0	369.7	367.4	366.3
0.1900E 01	173.7	279.3	356.4	400.9	419.2	422.8	420.1	415.4	410.4	385.0	378.9	376.6	375.5
0.2000E 01	182.9	292.8	371.0	414.2	430.6	432.9	429.4	424.2	419.0	393.8	387.8	385.6	384.5

-20. LOG /T/ VLAM.O/W**2D= 0.300000E-01 Y= 0.

D/LAM.O \ W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.5
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.1	10.5
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.1	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.0	12.5	16.2
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.4	20.5	24.5
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.4	2.2	3.2	4.2	14.6	21.9	27.4	31.7
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.0	5.4	6.8	18.5	26.3	32.2	36.7
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.2	5.8	7.4	9.0	21.5	29.9	36.2	40.8
0.1000E-01	0.1	0.3	1.0	2.2	3.7	5.5	7.4	9.2	10.9	24.2	33.2	39.8	44.3
0.2000E-01	0.3	1.3	3.3	5.9	8.6	11.3	13.7	16.1	18.2	35.3	46.9	53.2	55.4
0.4000E-01	1.1	4.0	8.2	12.4	16.3	19.9	23.3	26.6	29.6	54.1	65.5	67.7	67.1
0.6000E-01	2.2	7.2	12.8	18.1	23.0	27.6	32.0	36.2	40.3	69.4	77.2	76.7	75.2
0.8000E-01	3.7	10.4	17.2	23.5	29.5	35.2	40.6	45.7	50.6	81.6	85.7	83.8	82.1
0.1000E 00	5.3	13.5	21.5	28.9	35.9	42.6	48.9	55.0	60.6	91.4	92.5	90.1	88.5
0.2000E 00	14.3	29.0	42.6	55.3	67.3	78.4	88.5	97.3	104.7	122.9	118.1	115.1	113.6
0.3000E 00	23.8	44.4	63.5	81.1	97.1	111.2	122.8	131.3	138.3	143.5	137.7	135.0	133.6
0.4000E 00	33.2	59.8	84.0	105.9	124.9	140.3	151.7	159.3	163.9	160.3	154.5	152.0	150.8
0.5000E 00	42.7	75.0	104.1	129.6	150.4	165.7	175.8	181.5	184.1	175.1	169.5	167.2	166.1
0.6000E 00	52.2	90.1	123.7	152.0	173.5	187.3	196.0	199.8	200.8	188.5	183.1	181.0	179.9
0.7000E 00	61.6	105.0	142.7	173.0	194.4	207.2	213.4	215.4	215.1	200.8	195.6	193.6	192.7
0.8000E 00	71.0	119.8	161.1	192.7	213.2	224.1	228.4	229.0	227.6	212.2	207.3	205.5	204.6
0.9000E 00	80.4	134.4	178.8	211.0	230.2	239.2	241.8	241.2	239.3	223.0	218.3	216.6	215.7
0.1000E 01	89.7	148.7	195.9	228.1	245.6	252.7	253.8	252.3	249.9	233.2	228.7	227.0	226.2
0.1100E 01	99.0	162.8	212.2	244.0	259.7	264.9	264.8	262.6	259.7	243.0	238.6	237.0	236.2
0.1200E 01	108.3	176.7	227.9	258.7	272.5	276.1	275.0	272.2	269.0	252.2	248.0	246.5	245.8
0.1300E 01	117.5	190.3	242.8	272.5	284.3	286.5	284.5	281.2	277.9	261.1	257.1	255.6	254.9
0.1400E 01	126.7	203.6	257.1	285.3	295.3	296.1	293.4	289.8	286.3	269.6	265.7	264.3	263.6
0.1500E 01	135.8	216.7	270.7	297.3	305.5	305.2	301.9	298.0	294.3	277.9	274.1	272.7	272.0
0.1600E 01	144.9	229.5	283.7	308.5	315.0	313.7	309.9	305.8	302.1	285.8	282.1	280.8	280.1
0.1700E 01	154.0	241.9	296.1	319.0	324.0	321.8	317.6	313.3	309.5	293.5	289.9	288.6	288.0
0.1800E 01	162.9	254.1	307.8	329.0	332.5	329.5	325.0	320.6	316.7	300.9	297.4	296.1	295.5
0.1900E 01	171.8	266.0	319.1	338.3	340.6	336.9	332.1	327.6	323.7	308.1	304.7	303.4	302.9
0.2000E 01	180.7	277.6	329.8	347.2	348.2	344.0	338.9	334.3	330.5	315.1	311.8	310.6	310.0

= -20. LOG /T/ VLAM.0/W**2D= 0.400000E-01 Y= 0.

S/LAM.0 \ H	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.5
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.6	7.1	10.5
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.2	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.0	12.5	16.2
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.5	20.5	24.4
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.4	2.2	3.2	4.2	14.5	21.9	27.2	31.3
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.0	5.4	6.8	18.5	26.2	31.8	35.8
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.2	5.8	7.4	9.0	21.5	29.7	35.5	39.7
0.1000E-01	0.1	0.3	1.0	2.2	3.8	5.5	7.4	9.2	11.0	24.1	32.3	38.6	41.8
0.2000E-01	0.3	1.3	3.3	5.9	8.6	11.3	13.8	16.1	18.3	34.9	44.9	48.9	49.8
0.4000E-01	1.1	4.1	8.2	12.4	16.3	19.9	23.3	26.5	29.6	51.9	59.2	59.5	58.6
0.6000E-01	2.2	7.2	12.8	18.1	23.0	27.6	32.0	36.1	40.0	64.5	67.8	66.5	65.2
0.8000E-01	3.7	10.4	17.2	23.5	29.5	35.1	40.3	45.3	49.9	73.8	74.3	72.4	71.1
0.1000E 00	5.3	13.5	21.5	28.9	35.8	42.4	48.5	54.2	59.4	81.1	79.8	77.6	76.4
0.2000E 00	14.3	29.0	42.5	55.1	66.5	76.8	85.5	92.6	98.0	105.3	101.1	99.1	98.0
0.3000E 00	23.8	44.4	63.2	80.1	94.7	106.5	115.2	121.1	124.7	122.3	118.0	116.2	115.2
0.4000E 00	33.3	59.6	83.2	103.5	119.7	131.3	139.6	142.5	144.1	136.6	132.4	130.8	130.0
0.5000E 00	42.7	74.7	102.9	125.2	141.7	151.9	157.2	159.2	159.4	149.2	145.3	143.8	143.1
0.6000E 00	52.2	89.9	121.0	145.1	160.8	169.8	172.5	173.1	172.2	160.7	157.0	155.6	154.9
0.7000E 00	61.6	104.0	138.7	163.3	177.5	183.9	185.6	185.0	183.4	171.2	167.8	166.5	165.9
0.8000E 00	70.9	118.3	156.4	179.7	192.2	196.7	197.0	195.6	193.6	181.1	177.8	176.6	176.0
0.9000E 00	80.2	132.2	174.1	194.6	205.2	208.0	207.2	205.2	202.9	190.3	187.2	186.0	185.5
0.1000E 01	89.4	145.8	186.0	208.2	216.8	218.2	216.6	214.1	211.5	199.1	196.1	195.0	194.5
0.1100E 01	98.6	159.0	199.9	220.6	227.3	227.5	225.2	222.4	219.7	207.4	204.5	203.5	203.0
0.1200E 01	107.7	171.8	213.0	231.9	236.9	236.0	233.3	230.2	227.4	215.3	212.5	211.5	211.1
0.1300E 01	116.8	184.3	225.3	242.3	245.8	244.0	240.8	237.6	234.8	222.9	220.2	219.2	218.8
0.1400E 01	125.7	196.3	236.8	251.9	254.0	251.6	248.0	244.7	241.8	230.1	227.5	226.6	226.2
0.1500E 01	134.6	208.0	247.6	260.9	261.8	258.7	254.9	251.5	248.6	237.1	234.6	233.7	233.3
0.1600E 01	143.4	219.2	257.7	269.2	269.0	265.4	261.5	258.0	255.1	243.6	241.4	240.5	240.1
0.1700E 01	152.1	230.0	267.3	277.1	275.9	271.9	267.8	264.2	261.4	250.3	248.0	247.1	246.7
0.1800E 01	160.7	240.5	276.3	284.4	282.4	278.1	273.8	270.3	267.4	256.6	254.3	253.5	253.1
0.1900E 01	169.2	250.6	284.8	291.4	288.6	284.0	279.7	276.1	273.3	262.7	260.4	259.7	259.3
0.2000E 01	177.6	260.3	292.9	298.0	294.6	289.7	285.4	281.8	279.0	268.6	266.4	265.6	265.3

-20. LOG /T/ VLAM.0/W**2D= 0.500000E-01 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.5
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.1	10.5
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.2	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.0	12.5	16.3
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.5	20.5	24.3
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.4	2.2	3.2	4.3	14.6	21.9	27.1	30.9
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.1	5.4	6.8	18.5	26.2	31.4	34.8
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.2	5.8	7.5	9.1	21.5	29.5	34.7	37.6
0.1000E-01	0.1	0.3	1.0	2.2	3.8	5.6	7.4	9.2	11.0	24.1	32.4	37.3	39.6
0.2000E-01	0.3	1.3	3.3	5.9	8.6	11.3	13.8	16.1	18.3	34.4	42.8	45.3	45.5
0.4000E-01	1.1	4.1	8.2	12.4	16.3	19.9	23.3	26.5	29.5	49.6	54.1	53.6	52.7
0.6000E-01	2.2	7.2	12.8	18.1	23.0	27.6	31.8	35.9	39.6	59.9	60.9	59.5	58.5
0.8000E-01	3.7	10.4	17.2	23.5	29.4	34.9	40.1	44.8	49.1	67.3	66.3	64.6	63.6
0.1000E 00	5.3	13.5	21.5	28.9	35.7	42.1	48.0	53.3	57.9	73.1	71.0	69.2	68.3
0.2000E 00	14.4	29.0	42.4	54.7	65.5	74.8	82.2	87.7	91.5	93.2	89.8	88.2	87.4
0.3000E 00	23.8	44.4	62.7	78.7	91.8	101.4	107.7	111.4	113.1	108.1	104.7	103.4	102.7
0.4000E 00	33.3	59.4	82.2	100.7	114.1	122.5	126.8	128.5	128.7	120.7	117.6	116.4	115.8
0.5000E 00	42.8	74.2	100.6	120.4	132.9	139.3	141.7	142.0	141.2	131.9	129.0	127.9	127.4
0.6000E 00	52.2	88.7	117.9	137.8	148.7	153.2	154.1	153.3	151.8	142.0	139.3	138.3	137.9
0.7000E 00	61.5	102.8	134.0	153.3	162.3	165.0	164.6	163.1	161.4	151.4	148.9	147.9	147.5
0.8000E 00	70.7	116.4	149.0	167.0	174.0	175.2	174.0	172.1	170.0	160.1	157.7	156.9	156.5
0.9000E 00	79.9	129.6	162.8	179.2	184.4	184.4	182.5	180.2	178.1	168.3	166.0	165.2	164.8
0.1000E 01	89.0	142.3	175.5	190.2	193.7	192.7	190.3	187.8	185.6	176.0	173.9	173.1	172.7
0.1100E 01	98.0	154.5	187.3	200.1	202.1	200.3	197.6	195.0	192.7	183.3	181.3	180.5	180.2
0.1200E 01	106.9	166.2	198.2	209.1	209.9	207.5	204.5	201.8	199.5	190.3	188.3	187.6	187.3
0.1300E 01	115.7	177.4	208.3	217.3	217.0	214.1	211.0	208.2	205.9	197.0	195.1	194.4	194.0
0.1400E 01	124.4	188.1	217.6	225.0	223.7	220.5	217.1	214.3	212.1	203.3	201.5	200.8	200.5
0.1500E 01	133.0	198.3	226.3	232.1	230.1	226.5	223.0	220.2	218.0	209.4	207.7	207.0	206.7
0.1600E 01	141.4	208.1	234.4	238.7	236.0	232.2	228.7	225.9	223.6	215.3	213.6	213.0	212.7
0.1700E 01	149.7	217.4	242.0	245.0	241.7	237.7	234.1	231.3	229.1	221.0	219.3	218.7	218.4
0.1800E 01	157.9	226.3	249.1	250.9	247.1	242.9	239.4	236.6	234.4	226.5	224.8	224.3	224.0
0.1900E 01	165.9	234.7	255.8	256.5	252.3	248.0	244.4	241.7	239.5	231.7	230.2	229.6	229.3
0.2000E 01	173.8	242.8	262.1	261.8	257.3	252.9	249.3	246.6	244.5	236.9	235.3	234.8	234.5

-20. LOG /T/ VLAM.O/W**2D= 0.600000E-01 Y= 0.

D/LAM.O H	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0..	0.3	1.0	2.1
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	3.1	5.5
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.5
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.2	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.0	12.5	15.3
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.9	15.5	20.4	24.2
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.5	2.3	3.2	4.3	14.7	21.8	26.9	30.4
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.1	5.5	6.9	18.5	26.0	30.9	33.9
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.2	5.8	7.5	9.1	21.5	29.2	33.8	36.1
0.1000E-01	0.1	0.3	1.0	2.2	3.8	5.6	7.4	9.3	11.0	24.0	31.3	36.0	37.6
0.2000E-01	0.3	1.3	3.3	5.9	8.7	11.3	13.8	16.1	18.3	33.9	40.8	42.4	42.2
0.4000E-01	1.1	4.1	8.3	12.4	16.3	19.9	23.3	26.4	29.3	47.3	49.9	49.2	48.4
0.6000E-01	2.3	7.3	12.9	18.1	23.0	27.5	31.7	35.6	39.2	55.8	55.7	54.4	53.5
0.8000E-01	3.7	10.4	17.2	23.5	29.4	34.8	39.7	44.2	48.2	61.9	60.4	58.9	58.1
0.1000E 00	5.3	13.6	21.5	28.8	35.6	41.8	47.3	52.2	56.3	66.8	64.5	63.1	62.3
0.2000E 00	14.4	29.0	42.3	54.2	64.4	72.6	78.8	82.9	85.5	84.3	81.5	80.3	79.7
0.3000E 00	23.9	44.3	62.2	77.2	88.7	96.3	100.7	102.8	103.5	97.7	95.0	94.0	93.5
0.4000E 00	33.3	59.2	81.0	97.6	108.4	114.2	116.6	117.1	116.6	109.1	106.7	105.7	105.3
0.5000E 00	42.8	73.7	98.4	115.3	124.5	128.3	129.1	128.5	127.3	119.2	117.0	116.2	115.8
0.6000E 00	52.1	87.7	114.4	130.5	137.8	139.9	139.5	138.2	136.7	128.4	126.4	125.6	125.2
0.7000E 00	61.4	101.2	129.0	143.7	149.1	149.7	148.5	146.8	145.1	136.9	135.0	134.3	133.9
0.8000E 00	70.5	114.2	142.3	155.3	158.9	158.4	156.6	154.6	152.8	144.8	143.0	142.3	142.0
0.9000E 00	79.6	126.6	154.4	165.4	167.5	166.2	164.0	161.9	160.0	152.2	150.4	149.8	149.5
0.1000E 01	88.5	138.3	165.3	174.5	175.3	173.3	170.9	168.6	166.7	159.1	157.5	156.9	156.6
0.1100E 01	97.3	149.5	175.3	182.7	182.4	179.9	177.3	175.0	173.1	165.7	164.1	163.6	163.3
0.1200E 01	106.0	160.1	184.5	190.2	188.9	186.1	183.3	181.0	179.1	171.9	170.4	169.9	169.6
0.1300E 01	114.5	170.1	192.8	197.0	195.0	191.9	189.1	186.7	184.9	177.9	176.5	175.9	175.7
0.1400E 01	122.8	179.5	200.6	203.3	200.8	197.5	194.6	192.2	190.4	183.6	182.2	181.7	181.5
0.1500E 01	131.0	188.4	207.7	209.3	206.2	202.7	199.8	197.5	195.7	189.1	187.7	187.2	187.0
0.1600E 01	139.1	196.9	214.3	214.8	211.4	207.8	204.8	202.5	200.7	194.3	193.0	192.5	192.3
0.1700E 01	146.9	204.8	220.5	220.1	216.3	212.6	209.6	207.4	205.6	199.3	198.1	197.6	197.4
0.1800E 01	154.6	212.3	226.4	225.0	221.0	217.2	214.3	212.0	210.3	204.2	203.0	202.5	202.3
0.1900E 01	162.1	219.4	231.8	229.8	225.5	221.7	218.8	216.5	214.9	208.9	207.7	207.3	207.1
0.2000E 01	169.5	226.2	237.0	234.3	229.8	226.0	223.1	220.9	219.2	213.4	212.3	211.9	211.7

-20. LOG /T/ VLAM.D/W**2D= 0.700000E-01 Y= 0.

D/LAM.D \ W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.0	2.2
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.1	5.5
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.5
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.0	10.2	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.0	12.5	16.3
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.9	15.5	20.4	24.1
0.4000E-02	0.0	0.1	0.2	0.4	0.8	1.5	2.3	3.2	4.3	14.7	21.8	26.7	29.9
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.1	5.5	6.9	18.5	25.8	30.4	32.9
0.8000E-02	0.0	0.2	0.7	1.5	2.7	4.2	5.8	7.5	9.1	21.4	28.8	32.9	34.7
0.1000E-01	0.1	0.4	1.0	2.2	3.8	5.6	7.5	9.3	11.0	23.9	31.3	34.8	35.9
0.2000E-01	0.3	1.3	3.3	5.9	8.7	11.3	13.8	16.1	18.3	33.3	39.0	39.9	39.6
0.4000E-01	1.1	4.1	8.3	12.5	16.3	19.9	23.2	26.3	29.2	45.1	46.6	45.7	45.0
0.6000E-01	2.3	7.3	12.9	18.1	23.0	27.4	31.5	35.3	38.7	52.3	51.6	50.4	49.7
0.8000E-01	3.7	10.4	17.3	23.5	29.3	34.6	39.3	43.5	47.1	57.5	55.8	54.5	53.9
0.1000E 00	5.3	13.6	21.5	28.8	35.4	41.4	46.6	51.0	54.5	61.7	59.5	58.3	57.7
0.2000E 00	14.4	29.0	42.1	53.6	63.1	70.4	75.4	78.4	80.0	77.5	75.1	74.1	73.6
0.3000E 00	23.9	44.2	61.6	75.6	85.4	91.4	94.4	95.4	95.5	89.7	87.5	86.7	86.3
0.4000E 00	33.4	58.9	79.6	94.3	102.9	106.9	108.0	107.8	107.0	100.2	98.2	97.5	97.1
0.5000E 00	42.7	73.1	96.0	110.2	116.8	118.9	118.8	117.8	116.5	109.5	107.7	107.0	106.7
0.6000E 00	52.0	86.6	110.7	123.5	128.2	128.8	127.8	126.4	124.9	118.0	116.3	115.7	115.4
0.7000E 00	61.2	99.5	123.9	134.9	137.9	137.4	135.8	134.1	132.5	125.7	124.2	123.6	123.3
0.8000E 00	70.2	111.8	135.7	144.8	146.2	144.9	143.0	141.1	139.5	132.9	131.5	130.9	130.7
0.9000E 00	79.1	123.3	146.2	153.4	153.7	151.8	149.6	147.7	146.1	139.7	138.3	137.8	137.6
0.1000E 01	87.8	134.1	155.7	161.1	160.4	158.1	155.8	153.8	152.2	146.0	144.7	144.2	144.0
0.1100E 01	96.4	144.2	164.2	168.1	166.6	164.0	161.6	159.6	158.0	152.0	150.8	150.3	150.1
0.1200E 01	104.8	153.7	172.0	174.5	172.3	169.5	167.1	165.1	163.5	157.7	156.5	156.1	155.9
0.1300E 01	113.0	162.6	179.1	180.4	177.7	174.7	172.2	170.3	168.7	163.1	162.0	161.6	161.4
0.1400E 01	121.0	170.9	185.6	185.8	182.8	179.7	177.2	175.2	173.7	168.3	167.2	166.8	166.6
0.1500E 01	128.8	178.7	191.6	190.9	187.6	184.4	181.9	180.0	178.5	173.2	172.2	171.8	171.6
0.1600E 01	136.4	186.0	197.2	195.7	192.1	188.9	186.4	184.5	183.1	178.0	176.9	176.6	176.4
0.1700E 01	143.8	192.8	202.5	200.3	196.5	193.3	190.8	188.9	187.5	182.5	181.5	181.2	181.0
0.1800E 01	151.0	199.2	207.4	204.7	200.7	197.4	195.0	193.1	191.7	186.9	185.9	185.6	185.4
0.1900E 01	158.0	205.2	212.0	208.7	204.7	201.4	199.0	197.2	195.8	191.1	190.2	189.8	189.7
0.2000E 01	164.7	210.9	216.3	212.7	208.5	205.3	202.9	201.1	199.8	195.2	194.3	193.9	193.8

-20. LOG /T/ VLAM.O/W**2D= 0.800000E-01 Y= 0.

D/LAM.O H	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	2.2
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.1	5.6
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.1	10.2	13.9
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.1	8.1	12.6	16.3
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.8	14.4	18.2
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.0	1.5	8.9	15.5	20.4	24.0
0.4000E-02	0.0	0.1	0.2	0.4	0.9	1.5	2.3	3.2	4.3	14.7	21.7	26.4	29.4
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.1	5.5	6.9	18.4	25.6	29.8	32.0
0.8000E-02	0.0	0.2	0.7	1.5	2.8	4.2	5.9	7.5	9.1	21.4	28.5	32.0	33.4
0.1000E-01	0.1	0.4	1.0	2.2	3.8	5.6	7.5	9.3	11.0	23.8	30.7	33.6	34.4
0.2000E-01	0.3	1.3	3.3	5.9	8.7	11.4	13.8	16.1	18.3	32.7	37.4	37.8	37.4
0.4000E-01	1.1	4.1	8.3	12.5	16.3	19.9	23.2	26.2	29.0	43.1	43.8	42.9	42.3
0.6000E-01	2.3	7.3	12.9	18.1	22.9	27.3	31.3	34.9	38.1	49.3	48.2	47.2	46.6
0.8000E-01	3.7	10.5	17.3	23.5	29.2	34.3	38.9	42.8	46.0	53.8	52.1	51.0	50.5
0.1000E 00	5.4	13.6	21.5	28.7	35.2	40.9	45.8	49.8	52.8	57.5	55.5	54.5	54.0
0.2000E 00	14.5	29.0	42.0	53.0	61.8	68.1	72.1	74.3	75.3	72.0	69.9	69.1	68.7
0.3000E 00	23.9	44.0	60.9	73.8	82.2	86.8	88.7	89.1	88.8	83.3	81.5	80.8	80.5
0.4000E 00	33.4	58.5	78.1	91.0	97.7	100.3	100.6	100.0	99.1	93.1	91.4	90.8	90.5
0.5000E 00	42.7	72.3	93.4	105.2	109.9	110.8	110.2	109.0	107.8	101.7	100.2	99.7	99.4
0.6000E 00	51.9	85.4	106.9	117.0	119.8	119.6	118.3	116.8	115.5	109.5	108.2	107.7	107.4
0.7000E 00	61.0	97.7	118.8	126.9	128.2	127.2	125.5	123.9	122.5	116.7	115.5	115.0	114.8
0.8000E 00	69.9	109.1	129.3	135.5	135.6	133.9	132.0	130.4	128.9	123.4	122.2	121.8	121.6
0.9000E 00	78.6	119.8	138.5	143.0	142.2	140.1	138.1	136.4	135.0	129.8	128.5	128.1	127.9
0.1000E 01	87.1	129.7	146.8	149.7	148.2	145.9	143.7	142.0	140.6	135.5	134.4	134.0	133.8
0.1100E 01	95.4	138.9	154.2	155.8	153.7	151.2	149.0	147.3	146.0	141.0	140.0	139.6	139.4
0.1200E 01	103.5	147.5	160.9	161.4	158.9	156.2	154.0	152.3	151.0	145.2	145.2	144.9	144.7
0.1300E 01	111.4	155.3	167.0	166.6	163.7	161.0	158.8	157.1	155.8	151.2	150.2	149.9	149.8
0.1400E 01	119.0	162.7	172.6	171.4	168.3	165.5	163.3	161.7	160.4	155.9	155.0	154.7	154.5
0.1500E 01	126.4	169.4	177.8	175.9	172.6	169.8	167.6	166.0	164.8	160.4	159.6	159.3	159.1
0.1600E 01	133.5	175.7	182.7	180.2	176.7	173.9	171.8	170.2	169.0	164.8	163.9	163.6	163.5
0.1700E 01	140.4	181.6	187.2	184.2	180.7	177.8	175.7	174.2	173.0	168.9	168.1	167.8	167.7
0.1800E 01	147.1	187.1	191.4	188.1	184.4	181.6	179.5	178.0	176.9	172.9	172.1	171.8	171.7
0.1900E 01	153.6	192.3	195.4	191.7	188.1	185.3	183.2	181.7	180.6	176.7	176.0	175.7	175.6
0.2000E 01	159.8	197.1	199.2	196.2	191.5	188.8	186.7	185.3	184.2	180.4	179.7	179.4	179.3

-20. LOG /T/ VLAM.0/W**2D)= 0.900000E-01 Y= 0.

D/LAM.0 \ W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	2.2
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.2	5.6
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.0	6.1	10.3	13.9
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.2	8.1	12.6	16.3
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.8	14.4	18.1
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.5	8.9	15.5	20.3	23.9
0.4000E-02	0.0	0.1	0.2	0.4	0.9	1.5	2.3	3.2	4.3	14.7	21.6	26.2	28.9
0.6000E-02	0.0	0.1	0.4	0.9	1.7	2.8	4.1	5.5	6.9	18.4	25.4	29.3	31.1
0.8000E-02	0.0	0.2	0.7	1.5	2.8	4.3	5.9	7.5	9.1	21.3	28.1	31.2	32.3
0.1000E-01	0.1	0.4	1.0	2.2	3.8	5.6	7.5	9.3	11.1	23.7	30.1	32.5	33.1
0.2000E-01	0.3	1.3	3.3	6.0	8.7	11.4	13.8	16.1	18.2	32.1	35.9	36.0	35.6
0.4000E-01	1.1	4.1	8.3	12.5	16.4	19.9	23.1	26.1	28.8	41.2	41.4	40.6	40.0
0.6000E-01	2.3	7.3	12.9	18.1	22.9	27.2	31.1	34.6	37.5	46.6	45.5	44.5	44.0
0.8000E-01	3.8	10.5	17.3	23.5	29.1	34.1	38.4	42.0	44.9	50.6	49.0	48.1	47.6
0.1000E 00	5.4	13.6	21.5	28.6	35.0	40.5	45.0	48.5	51.1	54.0	52.2	51.4	50.9
0.2000E 00	14.5	29.0	41.7	52.3	60.4	65.8	68.9	70.5	71.0	67.4	65.7	65.0	64.7
0.3000E 00	24.0	4[illegible].9	60.2	72.0	79.1	82.5	83.7	83.7	83.2	78.1	76.5	76.0	75.7
0.4000E 00	33.4	58.1	76.6	87.8	92.9	94.5	94.3	93.5	92.6	87.2	85.8	85.3	85.1
0.5000E 00	42.6	71.5	90.5	100.5	103.7	103.9	102.9	101.7	100.6	95.3	94.0	93.6	93.4
0.6000E 00	51.8	84.0	103.2	110.9	112.5	111.7	110.3	109.0	107.7	102.6	101.5	101.0	100.8
0.7000E 00	60.7	95.7	113.9	119.7	120.0	118.6	117.0	115.5	114.2	109.3	108.2	107.9	107.7
0.8000E 00	69.5	106.4	123.2	127.3	126.6	124.8	123.0	121.5	120.3	115.5	114.5	114.2	114.0
0.9000E 00	78.0	116.3	131.4	134.0	132.6	130.5	128.6	127.1	125.8	121.3	120.4	120.0	119.9
0.1000E 01	86.3	125.4	138.7	139.9	138.0	135.7	133.8	132.3	131.1	126.7	125.9	125.5	125.4
0.1100E 01	94.3	133.7	145.2	145.3	143.0	140.7	138.7	137.2	136.0	131.9	131.0	130.7	130.6
0.1200E 01	102.1	141.3	151.1	150.3	147.7	145.3	143.3	141.9	140.7	136.7	135.9	135.6	135.5
0.1300E 01	109.6	148.3	156.4	155.0	152.1	149.7	147.7	146.3	145.2	141.3	140.5	140.2	140.1
0.1400E 01	116.8	154.8	161.3	159.3	156.3	153.8	151.9	150.5	149.4	145.7	144.9	144.6	144.5
0.1500E 01	123.8	160.7	165.9	163.4	160.3	157.8	155.9	154.5	153.5	149.8	149.1	148.8	148.7
0.1600E 01	130.5	166.3	170.2	167.2	164.0	161.5	159.7	158.3	157.3	153.8	153.1	152.9	152.7
0.1700E 01	136.9	171.4	174.1	170.9	167.6	165.1	163.3	162.0	161.0	157.6	156.9	156.7	156.6
0.1800E 01	143.1	176.1	177.9	174.4	171.1	168.6	166.8	165.5	164.6	161.3	160.6	160.4	160.3
0.1900E 01	149.0	180.6	181.4	177.7	174.4	171.9	170.2	168.9	168.0	164.8	164.1	163.9	163.8
0.2000E 01	154.6	184.7	184.8	180.8	177.5	175.1	173.4	172.2	171.3	168.1	167.5	167.3	167.2

-20. LOG /T/ VLAM.O/W**2D= 0.100000E 00 Y= 0.

D/LAM.O \ W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	2.2
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.2	5.6
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.0	3.7	7.2	10.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.1	6.1	10.3	13.9
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.2	8.1	12.6	16.3
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.8	14.4	18.1
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.5	8.9	15.5	20.3	23.7
0.4000E-02	0.0	0.1	0.2	0.4	0.9	1.5	2.3	3.3	4.3	14.7	21.6	25.9	28.4
0.6000E-02	0.0	0.1	0.4	0.9	1.8	2.8	4.1	5.5	6.9	18.4	25.2	28.7	30.3
0.8000E-02	0.0	0.2	0.7	1.5	2.8	4.3	5.9	7.6	9.2	21.2	27.7	30.4	31.3
0.1000E-01	0.1	0.4	1.1	2.2	3.8	5.7	7.5	9.3	11.1	23.5	29.5	31.5	31.9
0.2000E-01	0.3	1.3	3.3	6.0	8.7	11.4	13.8	16.1	18.2	31.4	34.5	34.5	34.1
0.4000E-01	1.1	4.2	8.3	12.5	16.4	19.9	23.1	26.0	28.5	39.6	39.4	38.6	38.1
0.6000E-01	2.3	7.3	12.9	18.1	22.9	27.1	30.9	34.2	36.9	44.3	43.1	42.3	41.8
0.8000E-01	3.8	10.5	17.3	23.4	28.9	33.8	37.9	41.2	43.8	47.9	46.4	45.6	45.2
0.1000E 00	5.4	13.7	21.5	28.5	34.7	39.9	44.1	47.2	49.4	51.1	49.4	48.7	48.3
0.2000E 00	14.5	29.0	41.5	51.6	58.9	63.5	66.0	67.1	67.3	63.6	62.1	61.5	61.2
0.3000E 00	24.0	43.7	59.4	70.1	76.1	78.6	79.2	79.0	78.3	73.6	72.3	71.8	71.6
0.4000E 00	33.4	57.6	74.9	84.6	88.5	89.4	88.9	88.0	87.0	82.2	81.1	80.6	80.4
0.5000E 00	42.6	70.6	88.2	96.1	98.2	97.8	96.8	95.6	94.5	89.8	88.8	88.4	88.2
0.6000E 00	51.6	82.6	99.5	105.4	106.1	105.0	103.6	102.3	101.2	96.7	95.8	95.4	95.2
0.7000E 00	60.4	93.6	109.2	113.3	112.9	111.4	109.8	108.4	107.3	103.0	102.1	101.8	101.6
0.8000E 00	69.0	103.6	117.6	120.1	118.9	117.1	115.4	114.0	112.9	108.9	108.0	107.7	107.6
0.9000E 00	77.3	112.7	124.9	126.1	124.3	122.3	120.6	119.3	118.2	114.3	113.5	113.2	113.1
0.1000E 01	85.3	121.0	131.3	131.4	129.3	127.2	125.5	124.1	123.1	119.4	118.6	118.3	118.2
0.1100E 01	93.1	128.6	137.1	136.4	134.0	131.8	130.0	128.7	127.7	124.1	123.4	123.1	123.0
0.1200E 01	100.5	135.4	142.3	140.9	138.3	136.1	134.4	133.1	132.1	128.6	127.9	127.7	127.6
0.1300E 01	107.7	141.7	147.1	145.1	142.4	140.1	138.4	137.2	136.2	132.9	132.2	132.0	131.9
0.1400E 01	114.5	147.4	151.5	149.0	146.2	144.0	142.3	141.1	140.2	137.0	136.3	136.1	136.0
0.1500E 01	121.1	152.7	155.6	152.8	149.9	147.6	146.0	144.8	143.9	140.8	140.2	140.0	139.9
0.1600E 01	127.3	157.5	159.4	156.3	153.3	151.1	149.5	148.4	147.5	144.5	143.9	143.7	143.6
0.1700E 01	133.3	162.0	162.9	159.6	156.7	154.5	152.9	151.8	150.9	148.0	147.5	147.3	147.2
0.1800E 01	138.9	166.2	166.3	162.8	159.8	157.7	156.1	155.0	154.2	151.4	150.8	150.6	150.6
0.1900E 01	144.3	170.1	169.4	165.8	162.8	160.7	159.2	158.1	157.3	154.6	154.1	153.9	153.8
0.2000E 01	149.5	173.7	172.5	168.7	165.8	163.7	162.2	161.1	160.4	157.7	157.2	157.0	156.9

-20. LOG /T/ VLAM.0/W**2D= 0.200000E 00 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.1	2.3
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	3.3	5.7
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	3.9	7.4	10.7
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.2	6.3	10.4	13.8
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.3	8.3	12.6	16.0
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	4.4	9.9	14.4	17.6
0.2000E-02	0.0	0.0	0.0	0.1	0.2	0.4	0.7	1.1	1.6	9.1	15.3	19.4	21.7
0.4000E-02	0.0	0.1	0.2	0.5	0.9	1.6	2.4	3.4	4.5	14.6	20.4	23.0	24.0
0.6000E-02	0.0	0.1	0.4	1.0	1.8	3.0	4.3	5.7	7.1	17.9	22.6	24.2	24.6
0.8000E-02	0.0	0.2	0.7	1.6	2.9	4.4	6.1	7.7	9.3	20.1	23.9	24.7	24.8
0.1000E-01	0.1	0.4	1.1	2.3	4.0	5.8	7.7	9.5	11.2	21.8	24.6	25.0	25.0
0.2000E-01	0.3	1.4	3.5	6.1	8.9	11.5	13.8	15.9	17.8	25.8	26.2	26.0	25.8
0.4000E-01	1.2	4.3	8.5	12.6	16.2	19.4	22.0	24.1	25.7	28.9	28.2	27.9	27.7
0.6000E-01	2.4	7.5	13.0	17.9	22.0	25.3	27.8	29.5	30.6	31.1	30.3	30.0	29.8
0.8000E-01	3.9	10.7	17.2	22.7	27.0	30.1	32.2	33.3	34.0	33.2	32.4	32.1	31.9
0.1000E 00	5.6	13.8	21.1	27.1	31.3	34.1	35.6	36.3	36.6	35.1	34.4	34.1	33.9
0.2000E 00	14.7	28.2	37.9	43.4	45.8	46.4	46.3	46.0	45.5	43.3	42.7	42.5	42.4
0.3000E 00	24.6	40.8	50.2	53.6	54.2	53.8	53.2	52.6	52.1	49.9	49.5	49.3	49.2
0.4000E 00	32.8	51.4	59.1	60.7	60.5	59.5	58.8	58.1	57.6	55.6	55.2	55.1	55.0
0.5000E 00	41.1	60.1	65.9	66.7	65.4	64.4	63.6	62.9	62.4	60.6	60.2	60.1	60.0
0.6000E 00	48.8	67.4	71.3	70.9	69.7	68.6	67.8	67.2	66.7	65.0	64.7	64.6	64.5
0.7000E 00	55.9	73.4	75.9	74.8	73.5	72.4	71.6	71.0	70.6	69.0	68.7	68.6	68.6
0.8000E 00	62.4	78.4	79.7	78.3	77.0	75.9	75.1	74.6	74.1	72.7	72.4	72.3	72.3
0.9000E 00	68.3	82.7	83.1	81.5	80.1	79.1	78.3	77.8	77.4	76.0	75.8	75.7	75.6
0.1000E 01	73.6	86.5	86.2	84.4	83.0	82.0	81.3	80.8	80.4	79.1	78.9	78.8	78.7
0.1100E 01	78.5	89.8	88.9	87.1	85.7	84.7	84.0	83.5	83.2	82.0	81.7	81.6	81.6
0.1200E 01	82.9	92.7	91.4	89.5	88.2	87.2	86.6	86.1	85.8	84.6	84.4	84.3	84.3
0.1300E 01	86.8	95.3	93.7	91.8	90.5	89.6	89.0	88.5	88.2	87.1	86.9	86.8	86.7
0.1400E 01	90.4	97.7	95.9	94.0	92.7	91.8	91.2	90.7	90.4	89.4	89.2	89.1	89.1
0.1500E 01	93.6	99.9	97.8	95.9	94.7	93.8	93.2	92.8	92.5	91.5	91.3	91.3	91.2
0.1600E 01	96.5	101.8	99.7	97.8	96.6	95.8	95.2	94.8	94.5	93.5	93.4	93.3	93.3
0.1700E 01	99.2	103.6	101.4	99.5	98.3	97.6	97.0	96.6	96.4	95.4	95.3	95.2	95.2
0.1800E 01	101.6	105.3	103.0	101.2	100.0	99.3	98.7	98.4	98.1	97.2	97.1	97.0	97.0
0.1900E 01	103.8	106.8	104.5	102.7	101.6	100.9	100.4	100.0	99.8	98.9	98.7	98.7	98.7
0.2000E 01	105.8	108.3	105.9	104.2	103.1	102.4	101.9	101.5	101.3	100.5	100.3	100.3	100.3

-20. LOG /T/ VLAM.0/W**2D= 0.300000E 00 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.1	2.4
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	3.4	5.9
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.1	4.0	7.5	10.7
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.2	6.4	10.4	13.7
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.4	8.4	12.5	15.6
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	4.6	10.0	14.1	16.9
0.2000E-02	0.0	0.0	0.1	0.1	0.3	0.5	0.8	1.2	1.7	9.2	15.0	18.2	19.8
0.4000E-02	0.0	0.1	0.2	0.5	1.0	1.6	2.5	3.5	4.6	14.3	18.9	20.5	21.0
0.6000E-02	0.0	0.1	0.4	1.0	1.9	3.1	4.4	5.8	7.2	17.1	20.3	21.1	21.3
0.8000E-02	0.1	0.3	0.8	1.7	3.0	4.6	6.2	7.8	9.4	18.8	21.0	21.3	21.4
0.1000E-01	0.1	0.4	1.2	2.4	4.1	6.0	7.8	9.6	11.2	19.9	21.3	21.5	21.5
0.2000E-01	0.3	1.4	3.6	6.3	9.0	11.5	13.7	15.6	17.1	22.1	22.1	21.9	21.8
0.4000E-01	1.2	4.4	8.6	12.6	15.9	18.5	20.5	21.9	22.8	23.7	23.4	23.1	22.9
0.6000E-01	2.5	7.7	13.0	17.5	20.8	23.1	24.5	25.3	25.7	25.1	24.7	24.5	24.4
0.8000E-01	4.1	10.8	16.9	21.5	24.6	26.4	27.3	27.6	27.7	26.6	26.1	26.0	25.9
0.1000E 00	5.8	13.8	20.4	25.0	27.6	28.9	29.4	29.4	29.3	28.0	27.6	27.5	27.4
0.2000E 00	14.8	26.9	33.7	36.3	36.9	36.8	36.4	36.0	35.7	34.3	34.0	33.9	33.9
0.3000E 00	23.6	37.1	42.0	42.8	42.5	41.9	41.4	41.0	40.7	39.5	39.2	39.1	39.1
0.4000E 00	31.6	44.7	47.7	47.5	46.8	46.1	45.6	45.2	44.9	43.8	43.6	43.5	43.5
0.5000E 00	38.6	50.4	52.0	51.3	50.4	49.7	49.2	48 9	48.6	47.6	47.4	47.3	47.3
0.6000E 00	44.7	54.9	55.4	54.4	53.5	52.9	52.4	52.1	51.8	50.9	50.7	50.7	50.6
0.7000E 00	50.0	58.6	58.3	57.2	56.3	55.7	55.2	54.9	54.7	53.8	53.7	53.6	53.6
0.8000E 00	54.6	61.6	60.9	59.7	58.8	58.2	57.8	57.5	57.2	56.5	56.3	56.3	56.3
0.9000E 00	58.5	64.1	63.1	61.9	61.0	60.5	60.1	59.8	59.6	58.9	58.7	58.7	58.7
0.1000E 01	61.9	66.3	65.1	63.9	63.1	62.5	62.1	61.9	61.7	61.0	60.9	60.8	60.8
0.1100E 01	64.8	68.3	66.9	65.7	64.9	64.4	64.0	63.8	63.6	63.0	62.9	62.8	62.8
0.1200E 01	67.3	70.0	68.5	67.4	66.6	66.1	65.8	65.5	65.3	64.8	64.7	64.6	64.6
0.1300E 01	69.5	71.5	70.0	68.9	68.1	67.7	67.3	67.1	66.9	66.4	66.3	66.3	66.2
0.1400E 01	71.4	72.9	71.3	70.2	69.5	69.1	68.8	68.6	68.4	67.9	67.8	67.8	67.8
0.1500E 01	73.0	74.1	72.6	71.5	70.8	70.4	70.1	69.9	69.8	69.3	69.2	69.2	69.2
0.1600E 01	74.5	75.2	73.7	72.7	72.0	71.6	71.4	71.2	71.0	70.6	70.5	70.4	70.4
0.1700E 01	75.8	76.2	74.7	73.8	73.1	72.8	72.5	72.3	72.2	71.7	71.7	71.6	71.6
0.1800E 01	77.0	77.1	75.7	74.7	74.2	73.8	73.5	73.4	73.2	72.8	72.8	72.7	72.7
0.1900E 01	78.0	78.0	76.6	75.7	75.1	74.8	74.5	74.4	74.2	73.8	73.8	73.7	73.7
0.2000E 01	79.0	78.8	77.4	76.5	76.0	75.6	75.4	75.3	75.2	74.8	74.7	74.7	74.7

-20. LOG /T' VLAM.O/W**2D= 0.400000E 00 Y= 0.

D/LAM.O W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.2	2.5
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	3.5	6.0
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2	4.1	7.6	10.7
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.3	6.5	10.4	13.4
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.5	8.4	12.4	15.0
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	4.7	10.0	13.8	16.1
0.2000E-02	0.0	0.0	0.1	0.1	0.3	0.5	0.8	1.2	1.7	9.2	14.5	17.0	18.1
0.4000E-02	0.0	0.1	0.2	0.5	1.0	1.7	2.6	3.6	4.7	14.0	17.5	18.5	18.8
0.6000E-02	0.0	0.2	0.5	1.1	2.0	3.2	4.5	5.9	7.3	16.2	18.4	18.9	19.0
0.8000E-02	0.1	0.3	0.8	1.8	3.1	4.7	6.3	7.9	9.4	17.5	18.8	19.0	19.1
0.1000E-01	0.1	0.4	1.2	2.5	4.2	6.1	7.9	9.6	11.1	18.2	19.0	19.1	19.1
0.2000E-01	0.3	1.5	3.7	6.4	9.0	11.4	13.4	15.0	16.3	19.5	19.5	19.4	19.3
0.4000E-01	1.3	4.6	8.7	12.4	15.4	17.5	19.0	19.8	20.4	20.6	20.3	20.1	20.1
0.6000E-01	2.6	7.8	12.9	16.8	19.4	21.0	21.8	22.1	22.2	21.6	21.3	21.1	21.1
0.8000E-01	4.2	10.8	16.4	20.2	22.3	23.2	23.6	23.7	23.6	22.7	22.4	22.3	22.2
0.1000E 00	5.9	13.6	19.5	22.9	24.4	25.0	25.1	25.0	24.8	23.8	23.5	23.4	23.4
0.2000E 00	14.8	25.3	29.9	31.1	31.1	30.8	30.4	30.1	29.9	29.0	28.8	28.7	28.7
0.3000E 00	22.9	33.3	35.8	35.8	35.4	34.9	34.5	34.2	34.0	33.2	33.1	33.0	33.0
0.4000E 00	29.9	38.9	39.9	39.4	38.8	38.3	37.9	37.7	37.5	36.8	36.6	36.6	36.6
0.5000E 00	35.7	42.9	43.0	42.3	41.6	41.2	40.8	40.6	40.4	39.8	39.7	39.6	39.6
0.6000E 00	40.5	46.0	45.6	44.8	44.1	43.7	43.4	43.1	43.0	42.4	42.3	42.3	42.3
0.7000E 00	44.3	48.5	47.8	46.9	46.3	45.9	45.6	45.4	45.2	44.7	44.6	44.6	44.6
0.8000E 00	47.5	50.6	49.6	48.8	48.2	47.8	47.5	47.3	47.2	46.7	46.7	46.6	46.6
0.9000E 00	50.1	52.3	51.3	50.4	49.9	49.5	49.3	49.1	49.0	48.5	48.5	48.4	48.4
0.1000E 01	52.3	53.8	52.7	51.9	51.4	51.0	50.8	50.6	50.5	50.1	50.1	50.0	50.0
0.1100E 01	54.1	55.1	54.0	53.2	52.7	52.4	52.2	52.0	51.9	51.6	51.5	51.5	51.5
0.1200E 01	55.6	56.2	55.1	54.4	53.9	53.6	53.4	53.3	53.2	52.9	52.8	52.8	52.8
0.1300E 01	56.9	57.2	56.2	55.5	55.0	54.7	54.6	54.4	54.3	54.0	53.9	53.9	53.9
0.1400E 01	58.1	58.1	57.1	56.4	56.0	55.7	55.6	55.4	55.4	55.1	55.0	55.0	55.0
0.1500E 01	59.0	58.9	57.9	57.3	56.9	56.6	56.5	56.4	56.3	56.0	55.9	55.9	55.9
0.1600E 01	59.9	59.6	58.7	58.1	57.7	57.5	57.3	57.2	57.1	56.9	56.8	56.8	56.8
0.1700E 01	60.6	60.3	59.3	58.8	58.4	58.2	58.1	58.0	57.9	57.6	57.6	57.6	57.6
0.1800E 01	61.3	60.8	60.0	59.4	59.1	58.9	58.7	58.6	58.6	58.3	58.3	58.3	58.3
0.1900E 01	61.8	61.4	60.5	60.0	59.7	59.5	59.4	59.3	59.2	59.0	58.9	58.9	58.9
0.2000E 01	62.3	61.8	61.0	60.5	60.2	60.1	59.9	59.8	59.8	59.6	59.5	59.5	59.5

-20. LOG /T/ VLAM.0/W**2D= 0.500000E 00 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.2	2.6
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	3.6	6.1
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2	4.2	7.7	10.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	2.4	6.6	10.3	13.0
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	3.6	8.5	12.1	14.4
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.5	4.8	9.9	13.3	15.2
0.2000E-02	0.0	0.0	0.1	0.1	0.3	0.5	0.8	1.3	1.8	9.2	14.0	15.9	16.7
0.4000E-02	0.0	0.1	0.2	0.5	1.0	1.8	2.7	3.7	4.8	13.5	16.3	17.0	17.2
0.6000E-02	0.0	0.2	0.5	1.1	2.1	3.3	4.6	6.0	7.4	15.3	16.9	17.2	17.3
0.8000E-02	0.1	0.3	0.8	1.8	3.2	4.8	6.4	8.0	9.4	16.3	17.2	17.3	17.3
0.1000E-01	0.1	0.4	1.3	2.6	4.3	6.2	7.9	9.6	11.0	16.8	17.3	17.4	17.4
0.2000E-01	0.4	1.6	3.8	6.5	9.0	11.3	13.0	14.4	15.4	17.7	17.6	17.6	17.5
0.4000E-01	1.3	4.7	8.7	12.2	14.8	16.5	17.5	18.1	18.4	18.4	18.2	18.1	18.0
0.6000E-01	2.7	7.8	12.6	16.1	18.1	19.1	19.5	19.7	19.7	19.1	18.9	18.8	18.8
0.8000E-01	4.3	10.8	15.8	18.8	20.2	20.8	20.9	20.8	20.7	20.0	19.8	19.7	19.7
0.1000E 00	6.0	13.4	18.4	20.9	21.8	22.0	22.0	21.8	21.7	20.9	20.7	20.7	20.6
0.2000E 00	14.6	23.6	26.7	27.1	27.0	26.7	26.4	26.2	26.0	25.3	25.2	25.2	25.1
0.3000E 00	22.1	30.0	31.2	31.0	30.5	30.2	29.9	29.7	29.5	29.0	28.8	28.8	28.8
0.4000E 00	28.1	34.2	34.4	33.9	33.4	33.0	32.8	32.6	32.4	31.9	31.9	31.8	31.8
0.5000E 00	32.8	37.2	36.9	36.2	35.8	35.4	35.2	35.0	34.9	34.5	34.4	34.3	34.3
0.6000E 00	36.5	39.5	38.9	38.2	37.8	37.5	37.3	37.1	37.0	36.6	36.5	36.5	36.5
0.7000E 00	39.3	41.4	40.6	40.0	39.5	39.2	39.0	38.9	38.8	38.5	38.4	38.4	38.4
0.8000E 00	41.6	42.9	42.1	41.5	41.0	40.8	40.6	40.5	40.4	40.1	40.0	40.0	40.0
0.9000E 00	43.4	44.2	43.3	42.7	42.4	42.1	42.0	41.8	41.7	41.5	41.4	41.4	41.4
0.1000E 01	44.8	45.3	44.4	43.9	43.5	43.3	43.1	43.0	43.0	42.7	42.6	42.6	42.6
0.1100E 01	46.1	46.2	45.4	44.9	44.5	44.3	44.2	44.1	44.0	43.8	43.7	43.7	43.7
0.1200E 01	47.1	47.0	46.2	45.7	45.4	45.2	45.1	45.0	45.0	44.7	44.7	44.7	44.7
0.1300E 01	47.9	47.7	47.0	46.5	46.2	46.1	45.9	45.8	45.8	45.6	45.5	45.5	45.5
0.1400E 01	48.6	48.4	47.6	47.2	46.9	46.8	46.7	46.6	46.5	46.3	46.3	46.3	46.3
0.1500E 01	49.2	48.9	48.2	47.8	47.6	47.4	47.3	47.2	47.2	47.0	47.0	47.0	47.0
0.1600E 01	49.8	49.4	48.7	48.4	48.1	48.0	47.9	47.8	47.8	47.6	47.6	47.6	47.6
0.1700E 01	50.2	49.8	49.2	48.8	48.6	48.5	48.4	48.3	48.3	48.1	48.1	48.1	48.1
0.1800E 01	50.6	50.2	49.6	49.3	49.1	48.9	48.9	48.8	48.8	48.6	48.6	48.6	48.6
0.1900E 01	50.9	50.5	50.0	49.7	49.5	49.4	49.3	49.2	49.2	49.1	49.0	49.0	49.0
0.2000E 01	51.2	50.8	50.3	50.0	49.8	49.7	49.7	49.6	49.6	49.4	49.4	49.4	49.4

-20. LOG /T/ VLAM.0/W**2D= 0.600000E 00 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.3	2.6
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	3.7	6.2
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.3	4.3	7.7	10.4
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	2.5	6.6	10.2	12.6
0.8000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.4	3.7	8.4	11.8	13.7
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.6	4.9	9.8	12.9	14.4
0.2000E-02	0.0	0.0	0.1	0.1	0.3	0.5	0.9	1.3	1.9	9.1	13.4	15.0	15.5
0.4000E-02	0.0	0.1	0.2	0.6	1.1	1.8	2.8	3.8	4.9	13.0	15.2	15.7	15.8
0.6000E-02	0.0	0.2	0.5	1.2	2.1	3.4	4.7	6.1	7.4	14.5	15.7	15.9	15.9
0.8000E-02	0.1	0.3	0.9	1.9	3.3	4.9	6.5	8.0	9.3	15.2	15.9	15.9	16.0
0.1000E-01	0.1	0.5	1.3	2.7	4.4	6.2	7.9	9.5	10.8	15.6	16.0	16.0	16.0
0.2000E-01	0.4	1.6	3.9	6.5	9.0	11.1	12.6	13.8	14.6	16.2	16.2	16.1	16.1
0.4000E-01	1.4	4.8	8.7	11.9	14.2	15.5	16.3	16.7	16.8	16.7	16.6	16.5	16.5
0.6000E-01	2.8	7.9	12.4	15.3	16.8	17.5	17.8	17.8	17.8	17.3	17.2	17.1	17.1
0.8000E-01	4.4	10.7	15.2	17.5	18.5	18.8	18.8	18.7	18.6	18.0	17.9	17.8	17.8
0.1000E 00	6.1	13.1	17.4	19.2	19.7	19.8	19.7	19.5	19.4	18.8	18.7	18.6	18.6
0.2000E 00	14.4	22.0	24.0	24.2	23.9	23.6	23.4	23.2	23.1	22.6	22.5	22.5	22.5
0.3000E 00	21.2	27.1	27.7	27.4	27.0	26.7	26.5	26.3	26.2	25.8	25.7	25.7	25.7
0.4000E 00	26.3	30.4	30.3	29.8	29.4	29.2	29.0	28.8	28.7	28.4	28.3	28.3	28.3
0.5000E 00	30.1	32.8	32.4	31.8	31.5	31.2	31.0	30.9	30.8	30.5	30.4	30.4	30.4
0.6000E 00	32.9	34.6	34.0	33.5	33.2	32.9	32.8	32.7	32.6	32.3	32.3	32.2	32.2
0.7000E 00	35.1	36.1	35.4	34.9	34.6	34.4	34.3	34.2	34.1	33.8	33.8	33.8	33.8
0.8000E 00	36.7	37.3	36.6	36.1	35.8	35.6	35.5	35.4	35.4	35.1	35.1	35.1	35.1
0.9000E 00	38.0	38.3	37.6	37.2	36.9	36.7	36.6	36.5	36.5	36.3	36.2	36.2	36.2
0.1000E 01	39.1	39.1	38.5	38.1	37.8	37.6	37.5	37.5	37.4	37.2	37.2	37.2	37.2
0.1100E 01	39.9	39.8	39.2	38.8	38.6	38.4	38.3	38.3	38.2	38.1	38.0	38.0	38.0
0.1200E 01	40.6	40.4	39.8	39.5	39.3	39.1	39.0	39.0	38.9	38.8	38.8	38.7	38.7
0.1300E 01	41.2	40.9	40.4	40.1	39.9	39.7	39.7	39.6	39.6	39.4	39.4	39.4	39.4
0.1400E 01	41.7	41.4	40.9	40.6	40.4	40.3	40.2	40.1	40.1	40.0	40.0	39.9	39.9
0.1500E 01	42.1	41.8	41.3	41.0	40.8	40.7	40.7	40.6	40.6	40.5	40.4	40.4	40.4
0.1600E 01	42.4	42.1	41.7	41.4	41.2	41.2	41.1	41.0	41.0	40.9	40.9	40.9	40.9
0.1700E 01	42.7	42.4	42.0	41.7	41.6	41.5	41.5	41.4	41.4	41.3	41.3	41.3	41.3
0.1800E 01	43.0	42.7	42.3	42.1	41.9	41.8	41.8	41.7	41.7	41.6	41.6	41.6	41.6
0.1900E 01	43.2	42.9	42.5	42.3	42.2	42.1	42.1	42.0	42.0	41.9	41.9	41.9	41.9
0.2000E 01	43.4	43.1	42.8	42.6	42.5	42.4	42.3	42.3	42.3	42.2	42.2	42.2	42.2

-20. LOG /T/ VLAM.O/W**2O= 0.700000E 00 Y= 0.

D/LAM.O \ W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.3	2.7
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.6	3.8	6.2
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.3	4.4	7.7	10.3
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	2.6	6.7	10.0	12.1
0.8000E-03	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	3.8	8.4	11.5	13.1
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.6	5.0	9.7	12.4	13.6
0.2000E-02	0.0	0.0	0.1	0.2	0.3	0.6	0.9	1.4	1.9	9.1	12.8	14.1	14.5
0.4000E-02	0.0	0.1	0.2	0.6	1.1	1.9	2.8	3.9	5.0	12.5	14.3	14.7	14.8
0.6000E-02	0.0	0.2	0.5	1.2	2.2	3.4	4.8	6.2	7.4	13.7	14.6	14.8	14.8
0.8000E-02	0.1	0.3	0.9	2.0	3.4	4.9	6.5	8.0	9.2	14.3	14.8	14.8	14.8
0.1000E-01	0.1	0.5	1.4	2.8	4.5	6.3	7.9	9.4	10.6	14.6	14.8	14.9	14.8
0.2000E-01	0.4	1.7	4.0	6.6	8.9	10.8	12.2	13.2	13.8	15.0	15.0	15.0	14.9
0.4000E-01	1.4	4.8	8.7	11.6	13.5	14.6	15.2	15.4	15.6	15.4	15.3	15.3	15.3
0.6000E-01	2.9	7.9	12.1	14.5	15.7	16.2	16.3	16.4	16.3	15.9	15.8	15.8	15.7
0.8000E-01	4.5	10.5	14.5	16.4	17.0	17.2	17.1	17.1	17.0	16.5	16.4	16.3	16.3
0.1000E 00	6.2	12.8	16.4	17.7	18.0	18.0	17.9	17.7	17.6	17.1	17.0	17.0	17.0
0.2000E 00	14.1	20.5	21.8	21.8	21.5	21.3	21.1	21.0	20.9	20.5	20.4	20.4	20.4
0.3000E 00	20.2	24.7	24.9	24.6	24.3	24.0	23.9	23.7	23.6	23.3	23.3	23.2	23.2
0.4000E 00	24.6	27.4	27.2	26.7	26.4	26.2	26.0	25.9	25.9	25.6	25.5	25.5	25.5
0.5000E 00	27.7	29.4	28.9	28.5	28.2	28.0	27.8	27.7	27.7	27.4	27.4	27.4	27.4
0.6000E 00	29.9	30.8	30.3	29.9	29.6	29.4	29.3	29.2	29.2	29.0	28.9	28.9	28.9
0.7000E 00	31.5	32.0	31.5	31.1	30.8	30.7	30.6	30.5	30.4	30.2	30.2	30.2	30.2
0.8000E 00	32.8	33.0	32.4	32.1	31.8	31.7	31.6	31.5	31.5	31.3	31.3	31.3	31.3
0.9000E 00	33.8	33.8	33.2	32.9	32.7	32.6	32.5	32.4	32.4	32.2	32.2	32.2	32.2
0.1000E 01	34.5	34.4	33.9	33.6	33.4	33.3	33.2	33.2	33.1	33.0	33.0	33.0	33.0
0.1100E 01	35.1	34.9	34.5	34.2	34.0	33.9	33.9	33.8	33.8	33.7	33.6	33.6	33.6
0.1200E 01	35.6	35.4	35.0	34.7	34.6	34.5	34.4	34.4	34.3	34.2	34.2	34.2	34.2
0.1300E 01	36.1	35.8	35.4	35.2	35.0	34.9	34.9	34.8	34.8	34.7	34.7	34.7	34.7
0.1400E 01	36.4	36.1	35.8	35.5	35.4	35.3	35.3	35.2	35.2	35.1	35.1	35.1	35.1
0.1500E 01	36.7	36.4	36.1	35.9	35.8	35.7	35.6	35.6	35.6	35.5	35.5	35.5	35.5
0.1600E 01	36.9	36.7	36.3	36.2	36.1	36.0	35.9	35.9	35.9	35.8	35.8	35.8	35.8
0.1700E 01	37.1	36.9	36.6	36.4	36.3	36.3	36.2	36.2	36.2	36.1	36.1	36.1	36.1
0.1800E 01	37.3	37.1	36.8	36.6	36.6	36.5	36.5	36.4	36.4	36.3	36.3	36.3	36.3
0.1900E 01	37.5	37.2	37.0	36.8	36.8	36.7	36.7	36.6	36.6	36.6	36.6	36.5	36.5
0.2000E 01	37.6	37.4	37.1	37.0	36.9	36.9	36.9	36.8	36.8	36.8	36.7	36.7	36.7

-20. LOG /T/ VLAM.0/W**2D= 0.800000E 00 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.4	2.8
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	3.9	6.2
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.4	4.4	7.7	10.0
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	2.6	6.7	9.9	11.7
0.8000E-03	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	3.9	8.3	11.1	12.5
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	5.0	9.5	11.9	13.0
0.2000E-02	0.0	0.0	0.1	0.2	0.3	0.6	0.9	1.4	2.0	9.0	12.3	13.3	13.6
0.4000E-02	0.0	0.1	0.3	0.6	1.2	1.9	2.9	4.0	5.1	12.0	13.5	13.8	13.8
0.6000E-02	0.0	0.2	0.6	1.3	2.3	3.5	4.9	6.2	7.4	13.0	13.7	13.8	13.9
0.8000E-02	0.1	0.3	1.0	2.0	3.4	5.0	6.5	7.9	9.1	13.5	13.8	13.9	13.9
0.1000E-01	0.1	0.5	1.4	2.8	4.6	6.3	7.9	9.3	10.4	13.7	13.9	13.9	13.9
0.2000E-01	0.4	1.7	4.1	6.6	8.9	10.6	11.8	12.6	13.1	14.0	14.0	14.0	14.0
0.4000E-01	1.5	4.9	8.6	11.3	12.9	13.8	14.2	14.4	14.5	14.4	14.3	14.2	14.2
0.6000E-01	2.9	7.8	11.7	13.8	14.7	15.0	15.1	15.1	15.1	14.8	14.7	14.6	14.6
0.8000E-01	4.6	10.4	13.9	15.3	15.8	15.8	15.8	15.7	15.6	15.3	15.2	15.1	15.1
0.1000E 00	6.2	12.5	15.5	16.4	16.6	16.5	16.4	16.3	16.2	15.8	15.7	15.7	15.7
0.2000E 00	13.8	19.1	20.0	19.9	19.6	19.5	19.3	19.2	19.1	18.8	18.7	18.7	18.7
0.3000E 00	19.2	22.6	22.7	22.3	22.1	21.9	21.8	21.7	21.6	21.3	21.3	21.3	21.3
0.4000E 00	23.0	24.9	24.6	24.3	24.0	23.8	23.7	23.6	23.6	23.3	23.3	23.3	23.3
0.5000E 00	25.5	26.6	26.1	25.8	25.5	25.4	25.3	25.2	25.1	25.0	24.9	24.9	24.9
0.6000E 00	27.3	27.8	27.3	27.0	26.8	26.6	26.6	26.5	26.4	26.3	26.2	26.2	26.2
0.7000E 00	28.6	28.8	28.3	28.0	27.8	27.7	27.6	27.5	27.5	27.4	27.3	27.3	27.3
0.8000E 00	29.6	29.6	29.1	28.8	28.7	28.5	28.5	28.4	28.4	28.3	28.2	28.2	28.2
0.9000E 00	30.3	30.2	29.8	29.5	29.4	29.3	29.2	29.2	29.1	29.0	29.0	29.0	29.0
0.1000E 01	30.9	30.7	30.3	30.1	30.0	29.9	29.8	29.8	29.7	29.6	29.6	29.6	29.6
0.1100E 01	31.3	31.1	30.8	30.6	30.4	30.4	30.3	30.3	30.2	30.2	30.1	30.1	30.1
0.1200E 01	31.7	31.5	31.2	31.0	30.9	30.8	30.7	30.7	30.7	30.6	30.6	30.6	30.6
0.1300E 01	32.0	31.8	31.5	31.3	31.2	31.2	31.1	31.1	31.1	31.0	31.0	31.0	31.0
0.1400E 01	32.3	32.0	31.8	31.6	31.5	31.5	31.4	31.4	31.4	31.3	31.3	31.3	31.3
0.1500E 01	32.5	32.3	32.0	31.9	31.8	31.7	31.7	31.7	31.7	31.6	31.6	31.6	31.6
0.1600E 01	32.7	32.4	32.2	32.1	32.0	32.0	31.9	31.9	31.9	31.8	31.8	31.8	31.8
0.1700E 01	32.8	32.6	32.4	32.3	32.2	32.2	32.1	32.1	32.1	32.0	32.0	32.0	32.0
0.1800E 01	32.9	32.7	32.6	32.4	32.4	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2
0.1900E 01	33.0	32.9	32.7	32.6	32.5	32.5	32.5	32.4	32.4	32.4	32.4	32.4	32.4
0.2000E 01	33.1	33.0	32.8	32.7	32.7	32.6	32.6	32.6	32.6	32.5	32.5	32.5	32.5

-20. LOG /T/ VLAM.0/W**2D= 0.900000E 00 Y= 0.

D/LAM.0 W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.4	2.8
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.7	3.9	6.3
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.4	4.5	7.6	9.8
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	2.7	6.7	9.7	11.3
0.8000E-03	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	3.9	8.3	10.8	12.0
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	5.1	9.4	11.5	12.3
0.2000E-02	0.0	0.0	0.1	0.2	0.3	0.6	1.0	1.5	2.1	8.8	11.8	12.6	12.9
0.4000E-02	0.0	0.1	0.3	0.6	1.2	2.0	3.0	4.0	5.1	11.6	12.7	13.0	13.0
0.6000E-02	0.0	0.2	0.6	1.3	2.3	3.6	4.9	6.2	7.4	12.4	13.0	13.0	13.1
0.8000E-02	0.1	0.3	1.0	2.1	3.5	5.1	6.5	7.9	9.0	12.7	13.0	13.1	13.1
0.1000E-01	0.1	0.5	1.5	2.9	4.6	6.3	7.8	9.1	10.1	12.9	13.1	13.1	13.1
0.2000E-01	0.4	1.8	4.1	6.6	8.7	10.3	11.4	12.1	12.5	13.2	13.2	13.2	13.1
0.4000E-01	1.5	5.0	8.5	11.0	12.4	13.1	13.4	13.5	13.6	13.5	13.4	13.4	13.4
0.6000E-01	3.0	7.8	11.4	13.1	13.8	14.1	14.1	14.1	14.1	13.8	13.7	13.7	13.7
0.8000E-01	4.6	10.2	13.2	14.4	14.7	14.7	14.7	14.6	14.5	14.2	14.2	14.1	14.1
0.1000E 00	6.3	12.1	14.6	15.3	15.4	15.3	15.2	15.1	15.0	14.7	14.6	14.6	14.6
0.2000E 00	13.4	17.9	18.4	18.3	18.1	17.9	17.8	17.7	17.6	17.4	17.3	17.3	17.3
0.3000E 00	18.3	20.9	20.8	20.5	20.3	20.1	20.0	19.9	19.9	19.7	19.6	19.6	19.6
0.4000E 00	21.5	22.9	22.6	22.2	22.0	21.9	21.8	21.7	21.7	21.5	21.5	21.5	21.4
0.5000E 00	23.6	24.3	23.9	23.6	23.4	23.3	23.2	23.1	23.1	22.9	22.9	22.9	22.9
0.6000E 00	25.0	25.3	24.9	24.6	24.5	24.4	24.3	24.2	24.2	24.1	24.0	24.0	24.0
0.7000E 00	26.1	26.1	25.7	25.5	25.3	25.2	25.2	25.1	25.1	25.0	25.0	25.0	25.0
0.8000E 00	26.9	26.8	26.4	26.2	26.1	26.0	25.9	25.9	25.8	25.7	25.7	25.7	25.7
0.9000E 00	27.4	27.3	27.0	26.8	26.6	26.6	26.5	26.5	26.5	26.4	26.4	26.3	26.3
0.1000E 01	27.9	27.7	27.4	27.2	27.1	27.1	27.0	27.0	27.0	26.9	26.9	26.9	26.9
0.1100E 01	28.3	28.1	27.8	27.6	27.5	27.5	27.4	27.4	27.4	27.3	27.3	27.3	27.3
0.1200E 01	28.5	28.3	28.1	27.9	27.9	27.8	27.8	27.7	27.7	27.7	27.7	27.6	27.6
0.1300E 01	28.8	28.6	28.3	28.2	28.1	28.1	28.1	28.0	28.0	28.0	28.0	28.0	28.0
0.1400E 01	29.0	28.8	28.6	28.5	28.4	28.3	28.3	28.3	28.3	28.2	28.2	28.2	28.2
0.1500E 01	29.1	28.9	28.8	28.6	28.6	28.5	28.5	28.5	28.5	28.4	28.4	28.4	28.4
0.1600E 01	29.3	29.1	28.9	28.8	28.8	28.7	28.7	28.7	28.7	28.6	28.6	28.6	28.6
0.1700E 01	29.4	29.2	29.1	29.0	28.9	28.9	28.9	28.8	28.8	28.8	28.8	28.8	28.8
0.1800E 01	29.5	29.3	29.2	29.1	29.0	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9
0.1900E 01	29.5	29.4	29.3	29.2	29.2	29.1	29.1	29.1	29.1	29.1	29.0	29.0	29.0
0.2000E 01	29.6	29.5	29.4	29.3	29.3	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2

-20. LOG /T/ VLAM.O/W**2D= 0.100000E 01 Y= 0.

D/LAM.O W	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	20.00	30.00	40.00	50.00
0.1000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.5	2.9
0.2000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.8	4.0	6.3
0.4000E-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	1.5	4.6	7.6	9.6
0.6000E-03	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	2.7	6.7	9.4	10.9
0.8000E-03	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	4.0	8.2	10.4	11.5
0.1000E-02	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	5.1	9.2	11.0	11.8
0.2000E-02	0.0	0.0	0.1	0.2	0.3	0.6	1.0	1.5	2.1	8.7	11.3	12.0	12.2
0.4000E-02	0.0	0.1	0.3	0.6	1.2	2.1	3.0	4.1	5.1	11.1	12.1	12.3	12.3
0.6000E-02	0.0	0.2	0.6	1.3	2.4	3.6	5.0	6.2	7.3	11.8	12.3	12.3	12.4
0.8000E-02	0.1	0.3	1.0	2.1	3.6	5.1	6.5	7.8	8.8	12.1	12.3	12.4	12.4
0.1000E-01	0.1	0.5	1.5	3.0	4.7	6.3	7.8	8.9	9.8	12.2	12.4	12.4	12.4
0.2000E-01	0.4	1.8	4.2	6.6	8.6	10.0	11.0	11.5	11.9	12.5	12.5	12.4	12.4
0.4000E-01	1.6	5.0	8.4	10.6	11.8	12.4	12.7	12.8	12.8	12.7	12.6	12.6	12.6
0.6000E-01	3.1	7.8	11.0	12.5	13.1	13.2	13.3	13.3	13.2	13.0	12.9	12.9	12.9
0.8000E-01	4.7	10.0	12.6	13.6	13.8	13.8	13.7	13.7	13.6	13.4	13.3	13.3	13.3
0.1000E 00	6.3	11.7	13.8	14.3	14.4	14.3	14.2	14.1	14.0	13.8	13.7	13.7	13.7
0.2000E 00	13.0	16.8	17.1	17.0	16.8	16.6	16.5	16.4	16.4	16.2	16.1	16.1	16.1
0.3000E 00	17.4	19.4	19.3	19.0	18.8	18.7	18.6	18.5	18.5	18.3	18.3	18.2	18.2
0.4000E 00	20.1	21.1	20.8	20.6	20.4	20.3	20.2	20.1	20.1	19.9	19.9	19.9	19.9
0.5000E 00	21.9	22.3	22.0	21.7	21.6	21.5	21.4	21.4	21.3	21.2	21.2	21.2	21.2
0.6000E 00	23.1	23.2	22.9	22.7	22.5	22.4	22.4	22.3	22.3	22.2	22.2	22.2	22.2
0.7000E 00	24.0	23.9	23.6	23.4	23.3	23.2	23.1	23.1	23.1	23.0	23.0	23.0	23.0
0.8000E 00	24.6	24.5	24.2	24.0	23.9	23.8	23.8	23.7	23.7	23.6	23.6	23.6	23.6
0.9000E 00	25.1	24.9	24.6	24.5	24.4	24.3	24.3	24.3	24.2	24.2	24.2	24.1	24.1
0.1000E 01	25.4	25.2	25.0	24.9	24.8	24.7	24.7	24.7	24.6	24.6	24.6	24.6	24.6
0.1100E 01	25.7	25.5	25.3	25.2	25.1	25.1	25.0	25.0	25.0	24.9	24.9	24.9	24.9
0.1200E 01	25.9	25.8	25.6	25.4	25.4	25.3	25.3	25.3	25.3	25.2	25.2	25.2	25.2
0.1300E 01	26.1	25.9	25.8	25.7	25.6	25.6	25.5	25.5	25.5	25.5	25.5	25.5	25.5
0.1400E 01	26.3	26.1	25.9	25.9	25.8	25.8	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.1500E 01	26.4	26.2	26.1	26.0	26.0	25.9	25.9	25.9	25.9	25.8	25.8	25.8	25.8
0.1600E 01	26.5	26.3	26.2	26.1	26.1	26.1	26.0	26.0	26.0	26.0	26.0	26.0	26.0
0.1700E 01	26.6	26.4	26.3	26.3	26.2	26.2	26.2	26.2	26.2	26.1	26.1	26.1	26.1
0.1800E 01	26.6	26.5	26.4	26.4	26.3	26.3	26.3	26.3	26.3	26.2	26.2	26.2	26.2
0.1900E 01	26.7	26.6	26.5	26.4	26.4	26.4	26.4	26.4	26.4	26.3	26.3	26.3	26.3
0.2000E 01	26.8	26.7	26.6	26.5	26.5	26.5	26.5	26.4	26.4	26.4	26.4	26.4	26.4

-20. LOG /T/ VLAM.0/W**2D= 0.100000E-03 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.5	14.2	18.0	21.1	23.8	26.1
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.4	8.6	15.2	20.1	23.9	27.1	29.8	32.1
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.1	14.2	21.1	26.1	30.0	33.1	35.8	38.2
0.6000E-04	0.9	1.6	2.7	3.9	5.2	6.6	17.5	24.6	29.6	33.5	36.7	39.4	41.8
0.8000E-04	1.4	2.6	4.0	5.5	7.1	8.6	20.1	27.1	32.1	36.1	39.3	42.0	44.4
0.1000E-03	2.1	3.6	5.3	7.0	8.7	10.4	22.0	29.1	34.1	38.0	41.3	44.0	46.4
0.2000E-03	5.4	7.9	10.2	12.4	14.3	16.1	28.1	35.3	40.4	44.5	47.9	50.9	53.5
0.4000E-03	10.4	13.3	15.9	18.2	20.3	22.1	34.4	41.9	47.5	52.1	56.2	59.9	63.3
0.6000E-03	13.7	16.8	19.5	21.8	23.9	25.7	38.4	46.4	52.7	58.1	63.1	67.7	72.2
0.8000E-03	16.2	19.3	22.0	24.4	26.5	28.4	41.5	50.2	57.3	63.7	69.7	75.4	80.9
0.1000E-02	18.1	21.3	24.0	26.4	28.6	30.5	44.2	53.7	61.8	69.2	76.2	83.0	89.6
0.2000E-02	24.5	27.9	30.9	33.5	35.9	38.1	55.8	70.2	83.6	96.5	108.9	121.0	132.8
0.4000E-02	32.1	36.2	39.9	43.3	46.6	49.7	77.5	103.0	127.2	150.7	173.5	195.4	216.4
0.6000E-02	38.1	43.1	47.7	52.2	56.5	60.7	99.5	135.5	170.5	204.3	236.6	266.9	294.6
0.8000E-02	43.7	49.7	55.4	60.9	66.3	71.6	121.3	168.2	213.5	257.0	297.6	334.3	365.9
0.1000E-01	49.2	56.3	63.1	69.7	76.2	82.5	143.1	200.7	256.2	308.6	356.2	397.1	429.8
0.2000E-01	76.5	89.0	101.3	113.3	125.3	137.1	251.7	361.0	460.8	543.8	604.1	641.2	659.7
0.4000E-01	131.1	155.5	177.6	200.6	223.4	246.1	466.4	563.0					
0.6000E-01	185.6	219.9	254.0	287.8	321.5	354.9	675.2						
0.8000E-01	240.2	285.4	330.3	374.9	419.3	463.5							
0.1000E 00	294.7	350.8	406.5	461.9	517.0	571.6							
0.2000E 00	567.1	677.1											

-20. LOG /T/ VLAM.D/W**2D= 0.100000E-32 Y= 0.

D/LAM.D \ W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.5	14.2	18.0	21.1	23.8	26.1
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.4	8.6	15.2	20.1	25.9	27.1	29.8	32.1
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.1	14.2	21.1	26.1	30.0	33.1	35.8	38.2
0.6000E-04	0.9	1.6	2.7	3.9	5.2	6.6	17.6	24.6	29.6	33.5	36.7	39.4	41.8
0.8000E-04	1.4	2.6	4.0	5.6	7.1	8.6	20.1	27.1	32.2	36.1	39.3	42.0	44.4
0.1000E-03	2.1	3.6	5.3	7.0	8.7	10.4	22.0	29.1	34.1	38.0	41.3	44.0	46.4
0.2000E-03	5.4	7.9	10.2	12.4	14.3	16.1	28.1	35.3	40.4	44.5	47.9	50.8	53.4
0.4000E-03	10.4	13.4	15.9	18.2	20.3	22.1	34.4	41.9	47.5	52.1	56.0	59.6	62.8
0.6000E-03	13.7	16.8	19.5	21.8	23.9	25.7	38.4	46.4	52.6	57.9	62.7	66.9	70.6
0.8000E-03	16.2	19.3	22.0	24.4	26.5	28.4	41.5	50.1	57.2	63.3	68.8	73.5	77.6
0.1000E-02	18.1	21.3	24.0	26.4	28.6	30.5	44.2	53.6	61.5	68.5	74.5	79.7	83.7
0.2000E-02	24.5	27.9	30.9	33.5	35.9	38.1	55.7	69.8	81.9	91.7	98.8	103.2	105.5
0.4000E-02	32.1	36.2	39.9	43.3	46.6	49.7	77.2	99.8	116.2	125.2	128.8	129.3	128.6
0.6000E-02	38.1	43.1	47.7	52.2	56.5	60.7	98.0	126.3	141.8	146.9	147.1	145.7	144.1
0.8000E-02	43.7	49.7	55.4	60.9	66.3	71.5	118.0	148.9	161.1	162.7	161.0	158.8	156.9
0.1000E-01	49.2	56.2	63.0	69.6	76.0	82.3	136.9	168.0	176.3	175.4	172.7	170.2	168.3
0.2000E-01	76.5	88.9	101.0	112.8	124.3	135.4	215.0	231.1	226.9	221.8	218.1	215.6	213.9
0.4000E-01	130.7	153.5	175.5	196.4	216.1	234.2	309.3	301.6	292.6	287.3	284.1	282.0	280.7
0.6000E-01	184.3	216.6	246.9	274.6	299.0	319.5	367.8	352.5	343.4	338.6	335.8	334.1	333.0
0.8000E-01	237.0	277.6	314.3	345.9	371.5	391.0	413.0	395.4	386.8	382.5	380.0	378.5	377.5
0.1000E 00	288.6	336.2	377.1	409.9	434.1	450.5	451.6	433.4	425.4	421.0	419.2	417.8	416.9
0.2000E 00	523.8	584.1	621.2	639.8	646.1	645.4	601.4	585.3	579.1	576.2	574.6	573.6	572.9

-20. LOG /T/ VLAM.O/W**2O= 0.100000E-01 Y= 0.

D/LAM.O / W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.6	14.2	18.0	21.1	23.8	26.1
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.2	20.1	24.0	27.1	29.8	32.1
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.1	14.2	21.1	26.1	30.0	33.1	35.7	37.9
0.6000E-04	0.9	1.7	2.7	3.9	5.2	6.4	17.7	24.6	29.6	33.4	36.5	39.1	41.2
0.8000E-04	1.5	2.6	4.0	5.6	7.1	8.4	20.1	27.1	32.1	35.9	38.9	41.4	43.5
0.1000E-03	2.1	3.6	5.3	7.1	8.8	10.4	22.1	29.1	34.0	37.8	40.7	43.1	44.9
0.2000E-03	5.4	7.9	10.2	12.4	14.3	16.1	28.1	35.1	40.0	43.4	45.8	47.4	48.5
0.4000E-03	10.4	13.4	16.0	18.3	20.3	22.1	34.3	41.3	45.6	48.1	49.4	49.9	50.2
0.6000E-03	13.7	16.8	19.5	21.8	23.9	25.7	38.1	44.9	48.5	50.0	50.6	50.7	50.7
0.8000E-03	16.2	19.3	22.0	24.4	26.5	28.4	40.9	47.4	50.2	51.0	51.2	51.1	51.0
0.1000E-02	18.1	21.3	24.1	26.4	28.6	30.5	43.3	49.3	51.3	51.6	51.6	51.5	51.3
0.2000E-02	24.5	27.9	30.8	33.4	35.8	37.9	51.1	54.2	54.1	53.7	53.4	53.2	53.0
0.4000E-02	32.1	36.1	39.6	42.8	45.7	48.3	59.1	58.8	58.0	57.5	57.2	57.0	56.9
0.6000E-02	38.0	42.7	46.9	50.6	53.9	56.6	63.7	62.4	61.6	61.1	60.8	60.6	60.5
0.8000E-02	43.3	48.8	53.6	57.6	60.9	63.4	67.2	65.6	64.8	64.4	64.1	64.0	63.9
0.1000E-01	48.5	54.6	59.7	63.8	66.8	68.9	70.3	68.6	67.8	67.4	67.2	67.1	67.0
0.2000E-01	71.8	78.9	83.3	85.6	86.5	86.7	82.7	81.1	80.5	80.2	80.1	80.0	79.9
0.4000E-01	105.4	108.9	109.5	108.8	107.8	106.7	101.6	100.4	99.9	99.7	99.6	99.5	99.5
0.6000E-01	127.1	127.3	125.9	124.3	122.9	121.7	116.9	115.8	115.5	115.3	115.2	115.1	115.1
0.8000E-01	142.8	141.2	139.0	137.2	135.6	134.4	130.0	129.1	128.8	128.7	128.6	128.5	128.5
0.1000E 00	155.6	152.9	150.5	148.5	147.0	145.9	141.8	141.0	140.7	140.6	140.5	140.4	140.4
0.2000E 00	202.1	198.4	195.9	194.2	192.9	192.0	189.0	188.4	188.2	188.1	188.0	188.0	188.0
0.3000E 00	237.4	233.9	231.7	230.2	229.1	228.3	225.8	225.3	225.1	225.1	225.0	225.0	225.0
0.4000E 00	267.4	264.3	262.2	260.9	260.0	259.3	257.1	256.5	256.5	256.4	256.4	256.4	256.3
0.5000E 00	294.2	291.2	289.4	288.2	287.3	286.7	284.7	284.3	284.2	284.1	284.1	284.1	284.1
0.6000E 00	318.5	315.8	314.1	312.9	312.2	311.6	309.8	309.4	309.3	309.3	309.2	309.2	309.2
0.7000E 00	341.0	338.4	336.8	335.8	335.1	334.5	332.9	332.5	332.4	332.4	332.3	332.3	332.3
0.8000E 00	362.0	359.6	358.1	357.1	356.4	355.9	354.3	354.1	353.9	353.9	353.9	353.9	353.8
0.9000E 00	381.8	379.5	378.1	377.2	376.5	376.0	374.5	374.3	374.2	374.1	374.1	374.1	374.1
0.1000E 01	400.6	398.4	397.0	396.1	395.5	395.1	393.6	393.4	393.3	393.2	393.2	393.2	393.2
0.1100E 01	418.4	416.3	415.0	414.2	413.6	413.2	411.8	411.5	411.5	411.4	411.4	411.4	411.4
0.1200E 01	435.5	433.5	432.2	431.4	430.9	430.5	429.2	428.9	428.8	428.8	428.8	428.8	428.8
0.1300E 01	451.9	449.9	448.7	448.0	447.4	447.0	445.8	445.6	445.5	445.4	445.4	445.4	445.4
0.1400E 01	467.7	465.8	464.6	463.9	463.4	463.0	461.8	461.6	461.5	461.4	461.4	461.4	461.4
0.1500E 01	482.9	481.1	480.0	479.2	478.7	478.4	477.2	477.0	476.9	476.9	476.9	476.8	476.8

-20. LOG /T/ WLAM.D/W**2D= 0.200000E-01 Y= D.

D/LAM.D W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.1	9.6	14.2	18.0	21.1	23.8	26.1
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.2	20.1	24.0	27.1	29.7	31.9
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.1	14.2	21.1	26.1	29.9	32.9	35.3	37.2
0.6000E-04	0.9	1.7	2.7	3.9	5.3	6.6	17.7	24.5	29.5	33.2	36.0	38.2	39.8
0.8000E-04	1.5	2.6	4.0	5.6	7.2	8.7	20.1	27.1	31.9	35.5	38.0	39.9	41.2
0.1000E-03	2.1	3.6	5.3	7.1	8.8	10.4	22.1	29.0	33.7	37.1	39.4	41.0	42.0
0.2000E-03	5.4	7.9	10.3	12.4	14.4	16.1	28.0	34.8	38.9	41.3	42.5	43.2	43.6
0.4000E-03	10.4	13.4	16.0	18.3	20.3	22.1	34.0	39.8	42.5	43.5	43.9	44.0	44.1
0.6000E-03	13.8	16.8	19.5	21.8	23.9	25.7	37.4	42.1	43.7	44.1	44.2	44.2	44.2
0.8000E-03	16.2	19.4	22.0	24.4	26.5	28.3	39.6	43.4	44.2	44.3	44.3	44.3	44.3
0.1000E-02	18.2	21.3	24.1	26.4	28.5	30.4	41.3	44.1	44.5	44.5	44.5	44.4	44.4
0.2000E-02	24.5	27.9	30.7	33.2	35.4	37.3	45.3	45.6	45.3	45.2	45.0	44.9	44.9
0.4000E-02	31.9	35.7	38.8	41.5	43.5	45.1	48.1	47.4	47.0	46.8	46.7	46.6	46.6
0.6000E-02	37.5	41.6	44.8	47.2	48.8	49.9	50.2	49.3	49.0	48.8	48.7	48.6	48.6
0.8000E-02	42.3	46.5	49.5	51.5	52.6	53.1	52.1	51.2	50.9	50.8	50.7	50.6	50.6
0.1000E-01	46.6	50.8	53.4	54.8	55.5	55.6	53.9	53.1	52.8	52.7	52.6	52.5	52.5
0.2000E-01	63.0	65.1	65.5	65.3	64.9	64.4	61.9	61.3	61.1	61.0	60.9	60.9	60.8
0.4000E-01	80.8	80.1	79.1	78.2	77.4	76.8	74.7	74.2	74.0	74.0	73.9	73.9	73.9
0.6000E-01	91.9	90.4	89.2	88.2	87.5	87.0	85.1	84.7	84.6	84.5	84.5	84.4	84.4
0.8000E-01	100.9	99.1	97.9	97.0	96.3	95.8	94.1	93.8	93.7	93.6	93.6	93.6	93.6
0.1000E 00	108.7	106.9	105.7	104.8	104.2	103.8	102.2	101.9	101.8	101.8	101.8	101.7	101.7
0.2000E 00	140.0	138.5	137.5	136.8	136.3	136.0	134.9	134.7	134.6	134.6	134.5	134.5	134.5
0.3000E 00	164.8	163.4	162.6	162.0	161.6	161.4	160.4	160.3	160.2	160.2	160.2	160.2	160.2
0.4000E 00	186.0	184.8	184.1	183.6	183.2	183.0	182.2	182.0	182.0	182.0	182.0	181.9	181.9
0.5000E 00	204.9	203.8	203.1	202.7	202.3	202.1	201.4	201.3	201.2	201.2	201.2	201.2	201.2
0.6000E 00	222.0	221.0	220.4	220.0	219.7	219.5	218.8	218.7	218.7	218.7	218.6	218.6	218.6
0.7000E 00	237.8	236.9	236.3	235.9	235.7	235.5	234.9	234.8	234.7	234.7	234.7	234.7	234.7
0.8000E 00	252.5	251.7	251.1	250.8	250.5	250.3	249.8	249.7	249.6	249.6	249.6	249.6	249.6
0.9000E 00	266.4	265.6	265.0	264.7	264.5	264.3	263.8	263.7	263.7	263.6	263.6	263.6	263.6
0.1000E 01	279.5	278.7	278.2	277.9	277.7	277.5	277.0	276.9	276.9	276.9	276.9	276.9	276.9
0.1100E 01	291.9	291.2	290.7	290.4	290.2	290.1	289.6	289.5	289.5	289.5	289.4	289.4	289.4
0.1200E 01	303.8	303.1	302.7	302.4	302.2	302.0	301.6	301.5	301.5	301.4	301.4	301.4	301.4
0.1300E 01	315.2	314.5	314.1	313.8	313.6	313.5	313.1	313.0	312.9	312.9	312.9	312.9	312.9
0.1400E 01	326.2	325.5	325.1	324.8	324.6	324.5	324.1	324.0	324.0	324.0	323.9	323.9	323.9
0.1500E 01	336.7	336.1	335.7	335.4	335.2	335.1	334.7	334.6	334.6	334.6	334.6	334.6	334.6

-20. LOG /T/ VLAM.O/W**2O= 0.300000E-01 Y=).

D/LAM.O	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.6	14.3	18.0	21.1	23.8	26.0
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.3	20.1	23.9	27.0	29.5	31.6
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.2	14.3	21.1	26.0	29.7	32.5	34.6	36.2
0.6000E-04	0.9	1.7	2.7	4.0	5.3	6.6	17.7	24.6	29.4	32.8	35.2	37.0	38.1
0.8000E-04	1.5	2.6	4.1	5.6	7.2	8.7	20.1	27.0	31.6	34.8	36.9	38.2	39.0
0.1000E-03	2.1	3.6	5.3	7.1	8.8	10.4	22.1	28.9	33.3	36.1	37.9	38.9	39.5
0.2000E-03	5.5	7.9	10.3	12.4	14.4	16.2	27.9	34.2	37.5	39.1	39.8	40.1	40.3
0.4000E-03	10.5	13.4	16.0	18.3	20.3	22.1	33.5	38.2	39.8	40.3	40.4	40.5	40.5
0.6000E-03	13.8	16.9	19.5	21.8	23.8	25.7	36.4	39.6	40.4	40.5	40.6	40.6	40.6
0.8000E-03	16.2	19.4	22.0	24.4	26.4	28.2	38.1	40.2	40.6	40.7	40.7	40.6	40.6
0.1000E-02	18.2	21.3	24.0	26.4	28.4	30.2	39.1	40.6	40.8	40.7	40.7	40.7	40.7
0.2000E-02	24.5	27.8	30.5	32.8	34.8	36.4	41.3	41.3	41.1	41.0	41.0	40.9	40.9
0.4000E-02	31.7	35.1	37.8	39.7	41.1	42.0	42.7	42.3	42.0	41.9	41.9	41.8	41.8
0.6000E-02	36.7	40.1	42.3	43.6	44.4	44.7	43.9	43.4	43.2	43.1	43.1	43.0	43.0
0.8000E-02	40.8	43.8	45.5	46.3	46.5	46.5	45.2	44.7	44.5	44.4	44.4	44.4	44.3
0.1000E-01	44.3	46.7	47.9	48.2	48.2	48.0	46.5	46.1	45.9	45.8	45.8	45.7	45.7
0.2000E-01	55.4	55.8	55.4	55.0	54.5	54.2	52.6	52.3	52.1	52.1	52.0	52.0	52.0
0.4000E-01	67.1	66.1	65.3	64.7	64.2	63.8	62.6	62.3	62.2	62.2	62.2	62.2	62.2
0.6000E-01	75.2	74.0	73.2	72.6	72.2	71.9	70.8	70.6	70.5	70.5	70.5	70.5	70.5
0.8000E-01	82.1	80.9	80.2	79.6	79.2	79.0	78.0	77.8	77.8	77.8	77.7	77.7	77.7
0.10 0E 00	88.3	87.2	86.4	85.9	85.6	85.3	84.5	84.3	84.3	84.2	84.2	84.2	84.2
0.20 E 00	113.6	112.7	112.1	111.7	111.5	111.3	110.7	110.6	110.5	110.5	110.5	110.5	110.5
0.30 E 00	133.6	132.9	132.4	132.1	131.9	131.7	131.2	131.1	131.1	131.1	131.1	131.1	131.1
0.4000E 00	150.8	150.2	149.7	149.5	149.3	149.2	148.7	148.6	148.6	148.6	148.6	148.6	148.6
0.5000E 00	166.1	165.5	165.1	164.9	164.7	164.6	164.2	164.1	164.1	164.1	164.1	164.1	164.1
0.6000E 00	179.9	179.4	179.0	178.8	178.7	178.6	178.2	178.1	178.1	178.1	178.1	178.1	176.1
0.7000E 00	192.7	192.2	191.9	191.7	191.5	191.4	191.1	191.0	191.0	191.0	191.0	191.0	191.0
0.8000E 00	204.6	204.1	203.8	203.6	203.5	203.4	203.1	203.0	203.0	203.0	203.0	203.0	203.0
0.9000E 00	215.7	215.3	215.0	214.8	214.7	214.6	214.3	214.2	214.2	214.2	214.2	214.2	214.2
0.1000E 01	226.2	225.8	225.5	225.4	225.3	225.2	224.9	224.8	224.8	224.8	224.8	224.8	224.8
0.1100E 01	236.2	235.8	235.6	235.4	235.3	235.2	235.0	234.9	234.9	234.9	234.9	234.9	234.9
0.1200E 01	245.8	245.4	245.1	245.0	244.9	244.8	244.5	244.5	244.5	244.5	244.5	244.5	244.5
0.1300E 01	254.9	254.5	254.3	254.1	254.0	253.9	253.7	253.6	253.6	253.6	253.6	253.6	253.6
0.1400E 01	263.6	263.2	263.0	262.9	262.8	262.7	262.5	262.4	262.4	262.4	262.4	262.4	262.4
0.1500E 01	272.0	271.7	271.5	271.3	271.2	271.1	270.9	270.9	270.9	270.9	270.9	270.9	270.9

-20. LOG /T/ VLAM.0/W**2D= 0.400000E-01 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.6	14.3	18.0	21.1	23.7	25.9
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.7	15.3	20.1	23.9	26.9	29.3	31.2
0.4000E-04	0.4	0.8	1.4	2.2	3.1	4.2	14.3	21.1	25.9	29.4	32.0	33.8	35.1
0.6000E-04	0.9	1.7	2.7	4.0	5.3	6.7	17.7	24.5	29.1	32.3	34.4	35.7	36.5
0.8000E-04	1.5	2.6	4.1	5.6	7.2	8.7	20.1	26.9	31.2	34.0	35.6	36.6	37.1
0.1000E-03	2.1	3.6	5.4	7.1	8.8	10.5	22.0	28.7	32.7	35.1	36.4	37.1	37.4
0.2000E-03	5.5	8.0	10.3	12.5	14.4	16.2	27.8	33.5	36.1	37.2	37.6	37.8	37.9
0.4000E-03	10.5	13.4	16.0	18.3	20.3	22.1	32.9	36.6	37.6	37.9	38.0	38.0	38.0
0.6000E-03	13.8	16.9	19.5	21.8	23.8	25.6	35.2	37.5	38.0	38.0	38.1	38.1	38.1
0.8000E-03	16.2	19.4	22.0	24.3	26.3	28.0	36.5	37.9	38.1	38.1	38.1	38.1	38.1
0.1000E-02	18.2	21.3	24.0	26.3	28.2	29.9	37.2	38.1	38.2	38.2	38.1	38.1	38.1
0.2000E-02	24.4	27.6	30.2	32.3	34.0	35.3	38.6	38.5	38.4	38.3	38.3	38.3	38.3
0.4000E-02	31.3	34.4	36.5	37.9	38.8	39.3	39.4	39.1	38.9	38.9	38.8	38.8	38.8
0.6000E-02	35.8	38.4	39.9	40.6	40.9	41.0	40.2	39.9	39.7	39.7	39.6	39.6	39.6
0.8000E-02	39.2	41.2	42.1	42.3	42.3	42.2	41.1	40.8	40.6	40.6	40.6	40.5	40.5
0.1000E-01	41.8	43.2	43.6	43.6	43.5	43.3	42.1	41.8	41.6	41.6	41.6	41.5	41.5
0.2000E-01	49.8	49.5	49.1	48.7	48.3	48.0	46.9	46.7	46.6	46.6	46.6	46.6	46.6
0.4000E-01	58.6	57.7	57.1	56.7	56.3	56.1	55.3	55.1	55.0	55.0	55.0	55.0	55.0
0.6000E-01	65.2	64.4	63.8	63.4	63.1	62.9	62.2	62.1	62.0	62.0	62.0	62.0	62.0
0.8000E-01	71.1	70.2	69.7	69.3	69.1	68.9	68.3	68.2	68.1	68.1	68.1	68.1	68.1
0.1000E 00	76.4	75.6	75.1	74.7	74.5	74.3	73.8	73.7	73.7	73.6	73.6	73.6	73.6
0.2000E 00	98.0	97.4	97.0	96.8	96.6	96.5	96.1	96.0	96.0	96.0	96.0	96.0	96.0
0.3000E 00	115.2	114.7	114.4	114.2	114.1	114.0	113.7	113.6	113.6	113.6	113.6	113.6	113.6
0.4000E 00	130.0	129.6	129.3	129.1	129.0	128.9	128.6	128.6	128.6	128.6	128.5	128.5	128.5
0.5000E 00	143.1	142.7	142.4	142.3	142.2	142.1	141.9	141.8	141.8	141.8	141.8	141.8	141.8
0.6000E 00	154.9	154.6	154.4	154.2	154.1	154.0	153.8	153.8	153.8	153.8	153.8	153.7	153.7
0.7000E 00	165.9	165.5	165.3	165.2	165.1	165.0	164.8	164.8	164.8	164.8	164.7	164.7	164.7
0.8000E 00	176.0	175.7	175.5	175.4	175.3	175.2	175.0	175.0	175.0	175.0	175.0	175.0	175.0
0.9000E 00	185.5	185.2	185.0	184.9	184.8	184.8	184.6	184.6	184.5	184.5	184.5	184.5	184.5
0.1000E 01	194.5	194.2	194.0	193.9	193.8	193.8	193.6	193.6	193.5	193.5	193.5	193.5	193.5
0.1100E 01	203.0	202.7	202.5	202.4	202.4	202.3	202.1	202.1	202.1	202.1	202.1	202.1	202.1
0.1200E 01	211.1	210.8	210.6	210.5	210.5	210.4	210.3	210.2	210.2	210.2	210.2	210.2	210.2
0.1300E 01	218.8	218.5	218.4	218.3	218.2	218.2	218.0	218.0	218.0	218.0	218.0	218.0	218.0
0.1400E 01	226.2	225.9	225.8	225.7	225.6	225.6	225.5	225.4	225.4	225.4	225.4	225.4	225.4
0.1500E 01	233.3	233.1	232.9	232.8	232.8	232.7	232.6	232.6	232.6	232.6	232.5	232.5	232.5

-20. LOG /T/ VLAM.D/W**2D= 0.500000E-01 Y= 0.

D/LAM) W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.3	18.0	21.1	23.7	25.8
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.3	20.1	23.8	26.7	29.0	30.7
0.4000E-04	0.4	0.8	1.4	2.2	3.2	4.2	14.3	21.1	25.8	29.1	31.5	33.0	34.1
0.6000E-04	0.9	1.7	2.7	4.0	5.3	6.7	17.7	24.5	28.9	31.7	33.4	34.5	35.1
0.8000E-04	1.5	2.7	4.1	5.6	7.2	8.8	20.1	26.7	30.8	33.1	34.4	35.1	35.5
0.1000E-03	2.1	3.7	5.4	7.1	8.9	10.5	22.0	28.4	32.1	34.0	35.0	35.5	35.7
0.2000E-03	5.5	8.0	10.3	12.5	14.4	16.2	27.4	32.7	34.8	35.5	35.8	36.0	36.0
0.4000E-03	10.5	13.5	16.0	18.3	20.3	22.1	32.2	35.1	35.8	36.0	36.1	36.1	36.1
0.6000E-03	13.8	16.9	19.5	21.8	23.7	25.5	34.1	35.8	36.1	36.1	36.1	36.1	36.1
0.8000E-03	16.3	19.4	22.0	24.2	26.2	27.8	35.1	36.0	36.2	36.2	36.2	36.2	36.2
0.1000E-02	18.2	21.3	23.9	26.1	28.0	29.6	35.6	36.2	36.2	36.2	36.2	36.2	36.2
0.2000E-02	24.3	27.4	29.9	31.8	33.2	34.2	36.5	36.4	36.3	36.3	36.3	36.3	36.3
0.4000E-02	30.9	33.6	35.3	36.3	36.9	37.1	37.0	36.8	36.7	36.7	36.6	36.6	36.6
0.6000E-02	34.8	36.8	37.8	38.2	38.3	38.3	37.6	37.4	37.3	37.2	37.2	37.2	37.2
0.8000E-02	37.6	38.9	39.3	39.4	39.3	39.1	38.3	38.0	37.9	37.9	37.9	37.9	37.9
0.1000E-01	39.6	40.3	40.4	40.3	40.1	39.9	39.0	38.8	38.7	38.7	38.6	38.6	38.6
0.2000E-01	45.5	45.1	44.7	44.3	44.0	43.8	43.0	42.9	42.8	42.8	42.8	42.7	42.7
0.4000E-01	52.7	52.0	51.5	51.2	51.0	50.8	50.2	50.1	50.0	50.0	50.0	50.0	50.0
0.6000E-01	58.5	57.8	57.4	57.1	56.9	56.7	56.2	56.1	56.1	56.1	56.1	56.1	56.1
0.8000E-01	63.6	63.0	62.6	62.3	62.2	62.0	61.6	61.5	61.5	61.5	61.4	61.4	61.4
0.1000E 00	68.3	67.7	67.3	67.1	66.9	66.8	66.4	66.3	66.3	66.3	66.3	66.3	66.3
0.2000E 00	87.4	87.0	86.7	86.6	86.4	86.4	86.1	86.0	86.0	86.0	86.0	86.0	86.0
0.3000E 00	102.7	102.4	102.1	102.0	101.9	101.8	101.6	101.5	101.5	101.5	101.5	101.5	101.5
0.4000E 00	115.8	115.5	115.3	115.2	115.1	115.0	114.8	114.8	114.8	114.8	114.8	114.8	114.8
0.5000E 00	127.4	127.1	126.9	126.8	126.7	126.7	126.5	126.5	126.5	126.5	126.5	126.5	126.4
0.6000E 00	137.9	137.6	137.5	137.4	137.3	137.2	137.1	137.0	137.0	137.0	137.0	137.0	137.0
0.7000E 00	147.5	147.3	147.1	147.0	147.0	146.9	146.8	146.7	146.7	146.7	146.7	146.7	146.7
0.8000E 00	156.5	156.2	156.1	156.0	155.9	155.9	155.8	155.7	155.7	155.7	155.7	155.7	155.7
0.9000E 00	164.8	164.6	164.5	164.4	164.3	164.3	164.2	164.2	164.1	164.1	164.1	164.1	164.1
0.1000E 01	172.7	172.5	172.4	172.3	172.3	172.2	172.1	172.1	172.1	172.1	172.1	172.1	172.1
0.1100E 01	180.2	180.0	179.9	179.8	179.7	179.7	179.6	179.6	179.6	179.6	179.6	179.6	179.6
0.1200E 01	187.3	187.1	187.0	186.9	186.9	186.8	186.7	186.7	186.7	186.7	186.7	186.7	186.7
0.1300E 01	194.0	193.9	193.8	193.7	193.6	193.6	193.5	193.5	193.5	193.5	193.5	193.5	193.5
0.1400E 01	200.5	200.4	200.2	200.2	200.1	200.1	200.0	200.0	200.0	200.0	200.0	200.0	200.0
0.1500E 01	206.7	206.6	206.5	206.4	206.4	206.3	206.2	206.2	206.2	206.2	206.2	206.2	206.2

-20. LOG /T/ VLAM.0/W**20= 0.600000E-01 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.3	18.0	21.1	23.6	25.6
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.3	20.1	23.7	26.5	28.7	30.2
0.4000E-04	0.4	0.8	1.4	2.2	3.2	4.2	14.3	21.1	25.7	28.8	30.9	32.2	33.0
0.6000E-04	0.9	1.7	2.8	4.0	5.3	6.7	17.7	24.4	28.5	31.1	32.5	33.4	33.8
0.8000E-04	1.5	2.7	4.1	5.7	7.2	8.8	20.1	26.5	30.3	32.3	33.3	33.9	34.1
0.1000E-03	2.1	3.7	5.4	7.2	8.9	10.5	22.0	28.1	31.4	33.0	33.7	34.1	34.3
0.2000E-03	5.5	8.0	10.3	12.5	14.4	16.2	27.3	32.0	33.6	34.1	34.4	34.5	34.5
0.4000E-03	10.5	13.5	16.0	18.3	20.3	22.0	31.5	33.8	34.4	34.5	34.5	34.5	34.6
0.6000E-03	13.8	16.9	19.5	21.7	23.7	25.3	33.1	34.3	34.5	34.6	34.6	34.6	34.6
0.8000E-03	16.3	19.3	21.9	24.1	26.0	27.6	33.8	34.5	34.6	34.6	34.6	34.6	34.6
0.1000E-02	18.2	21.3	23.8	26.0	27.7	29.2	34.2	34.6	34.6	34.6	34.6	34.6	34.6
0.2000E-02	24.2	27.2	29.5	31.2	32.4	33.2	34.8	34.8	34.7	34.7	34.7	34.7	34.7
0.4000E-02	30.4	32.7	34.1	34.8	35.2	35.4	35.2	35.0	35.0	35.0	34.9	34.9	34.9
0.6000E-02	33.9	35.4	36.0	36.2	36.2	36.2	35.6	35.4	35.4	35.4	35.3	35.3	35.3
0.8000E-02	36.1	36.9	37.1	37.1	37.0	36.8	36.1	36.0	35.9	35.9	35.8	35.8	35.8
0.1000E-01	37.6	38.0	38.0	37.8	37.6	37.4	36.7	36.5	36.5	36.5	36.4	36.4	36.4
0.2000E-01	42.2	41.8	41.4	41.1	40.9	40.7	40.1	39.9	39.9	39.9	39.9	39.9	39.9
0.4000E-01	48.4	47.8	47.4	47.2	47.0	46.8	46.4	46.3	46.3	46.3	46.2	46.2	46.2
0.6000E-01	53.5	53.0	52.7	52.4	52.3	52.2	51.8	51.7	51.7	51.7	51.7	51.7	51.7
0.8000E-01	58.1	57.6	57.3	57.1	57.0	56.9	56.6	56.5	56.5	56.5	56.5	56.5	56.5
0.1000E 00	62.3	61.9	61.6	61.4	61.3	61.2	60.9	60.8	60.8	60.8	60.8	60.8	60.8
0.2000E 00	79.7	79.3	79.1	79.0	78.9	78.8	78.6	78.6	78.6	78.6	78.6	78.6	78.6
0.3000E 00	93.5	93.2	93.0	92.9	92.9	92.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6
0.4000E 00	105.3	105.1	104.9	104.8	104.8	104.7	104.6	104.5	104.5	104.5	104.5	104.5	104.5
0.5000E 00	115.8	115.6	115.4	115.3	115.3	115.2	115.1	115.1	115.1	115.1	115.1	115.1	115.1
0.6000E 00	125.2	125.0	124.9	124.8	124.8	124.8	124.6	124.6	124.6	124.6	124.6	124.6	124.6
0.7000E 00	133.9	133.7	133.6	133.6	133.5	133.5	133.4	133.3	133.3	133.3	133.3	133.3	133.3
0.8000E 00	142.0	141.8	141.7	141.6	141.6	141.6	141.5	141.4	141.4	141.4	141.4	141.4	141.4
0.9000E 00	149.5	149.4	149.3	149.2	149.2	149.1	149.0	149.0	149.0	149.0	149.0	149.0	149.0
0.1000E 01	156.6	156.4	156.4	156.3	156.3	156.2	156.1	156.1	156.1	156.1	156.1	156.1	156.1
0.1100E 01	163.3	163.1	163.1	163.0	163.0	162.9	162.8	162.8	162.8	162.8	162.8	162.8	162.8
0.1200E 01	169.6	169.5	169.4	169.4	169.3	169.3	169.2	169.2	169.2	169.2	169.2	169.2	169.2
0.1300E 01	175.7	175.6	175.5	175.4	175.4	175.4	175.3	175.3	175.3	175.3	175.3	175.3	175.3
0.1400E 01	181.5	181.3	181.3	181.2	181.2	181.2	181.1	181.1	181.1	181.1	181.1	181.1	181.1
0.1500E 01	187.0	186.9	186.8	186.8	186.7	186.7	186.6	186.6	186.6	186.6	186.6	186.6	186.6

-20. LOG /T/ VLAM.D/W**2D= 0.700000E-01 Y= D.

D/LAM.D W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.3	18.0	21.0	23.5	25.5
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.3	20.1	23.6	26.3	28.3	29.7
0.4000E-04	0.4	0.8	1.4	2.2	3.2	4.2	14.3	21.0	25.5	28.4	30.3	31.4	32.1
0.6000E-04	0.9	1.7	2.8	4.0	5.4	6.7	17.7	24.2	28.2	30.5	31.7	32.3	32.7
0.8000E-04	1.5	2.7	4.1	5.7	7.3	8.8	20.1	26.3	29.8	31.5	32.3	32.7	32.9
0.1000E-03	2.2	3.7	5.4	7.2	8.9	10.5	21.9	27.8	30.7	32.0	32.6	32.9	33.0
0.2000E-03	5.5	8.0	10.4	12.5	14.4	16.2	27.1	31.2	32.5	32.9	33.1	33.2	33.2
0.4000E-03	10.5	13.5	16.0	18.3	20.2	22.0	30.9	32.7	33.1	33.2	33.2	33.2	33.2
0.6000E-03	13.8	16.9	19.5	21.7	23.6	25.2	32.1	33.1	33.2	33.2	33.3	33.3	33.3
0.8000E-03	16.3	19.3	21.9	24.0	25.8	27.3	32.7	33.2	33.3	33.3	33.3	33.3	33.3
0.1000E-02	18.2	21.2	23.7	25.8	27.4	28.8	33.0	33.3	33.3	33.3	33.3	33.3	33.3
0.2000E-02	24.1	27.0	29.0	30.5	31.6	32.2	33.4	33.4	33.4	33.3	33.3	33.3	33.3
0.4000E-02	29.9	31.9	33.0	33.5	33.8	33.9	33.7	33.6	33.6	33.5	33.5	33.5	33.5
0.6000E-02	32.9	34.0	34.5	34.6	34.6	34.5	34.1	33.9	33.9	33.8	33.8	33.8	33.8
0.8000E-02	34.7	35.2	35.3	35.2	35.1	35.0	34.4	34.3	34.3	34.2	34.2	34.2	34.2
0.1000E-01	35.9	36.1	36.0	35.8	35.6	35.5	34.9	34.8	34.7	34.7	34.7	34.7	34.7
0.2000E-01	39.6	39.2	38.8	38.6	38.4	38.2	37.7	37.6	37.6	37.6	37.6	37.6	37.6
0.4000E-01	45.0	44.5	44.2	44.0	43.9	43.8	43.4	43.3	43.3	43.3	43.3	43.3	43.3
0.6000E-01	49.7	49.3	49.0	48.8	48.7	48.6	48.3	48.2	48.2	48.2	48.2	48.2	48.2
0.8000E-01	53.9	53.5	53.2	53.1	53.0	52.9	52.6	52.6	52.6	52.6	52.5	52.5	52.5
0.1000E 00	57.7	57.4	57.1	57.0	56.9	56.8	56.6	56.5	56.5	56.5	56.5	56.5	56.5
0.2000E 00	73.6	73.3	73.2	73.1	73.1	73.0	72.8	72.8	72.7	72.7	72.7	72.7	72.7
0.3000E 00	86.3	86.1	86.0	85.9	85.8	85.8	85.6	85.6	85.6	85.6	85.6	85.6	85.6
0.4000E 00	97.1	97.0	96.8	96.8	96.7	96.7	96.6	96.5	96.5	96.5	96.5	96.5	96.5
0.5000E 00	106.7	106.6	106.5	106.4	106.3	106.3	106.2	106.2	106.2	106.2	106.2	106.2	106.2
0.6000E 00	115.4	115.2	115.2	115.1	115.1	115.0	114.9	114.9	114.9	114.9	114.9	114.9	114.9
0.7000E 00	123.3	123.2	123.1	123.1	123.0	123.0	122.9	122.9	122.9	122.9	122.9	122.9	122.9
0.8000E 00	130.7	130.6	130.5	130.4	130.4	130.4	130.3	130.3	130.3	130.3	130.3	130.3	130.3
0.9000E 00	137.6	137.4	137.4	137.3	137.3	137.3	137.2	137.2	137.2	137.2	137.2	137.2	137.2
0.1000E 01	144.0	143.9	143.8	143.8	143.8	143.7	143.7	143.6	143.6	143.6	143.6	143.6	143.6
0.1100E 01	150.1	150.0	149.9	149.9	149.9	149.8	149.8	149.7	149.7	149.7	149.7	149.7	149.7
0.1200E 01	155.9	155.8	155.7	155.7	155.6	155.6	155.5	155.5	155.5	155.5	155.5	155.5	155.5
0.1300E 01	161.4	161.3	161.2	161.2	161.1	161.1	161.0	161.0	161.0	161.0	161.0	161.0	161.0
0.1400E 01	166.6	166.5	166.4	166.4	166.4	166.4	166.3	166.3	166.3	166.3	166.3	166.3	166.3
0.1500E 01	171.6	171.5	171.4	171.4	171.4	171.4	171.3	171.3	171.3	171.3	171.3	171.3	171.3

-20. LOG /T/ VLAM.0/W**2D= 0.80000DE-01 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.2	9.7	14.3	18.0	21.0	23.4	25.3
0.2000E-04	0.1	0.2	0.4	0.7	1.0	1.5	8.8	15.3	20.0	23.5	26.1	27.9	29.2
0.4000E-04	0.4	0.8	1.5	2.3	3.2	4.2	14.3	21.0	25.3	28.0	29.7	30.6	31.2
0.6000E-04	0.9	1.7	2.8	4.0	5.4	6.7	17.7	24.1	27.8	29.8	30.9	31.4	31.7
0.8000E-04	1.5	2.7	4.1	5.7	7.3	8.8	20.0	26.1	29.2	30.7	31.4	31.7	31.9
0.1000E-03	2.2	3.7	5.4	7.2	8.9	10.5	21.8	27.5	30.1	31.2	31.6	31.8	32.0
0.2000E-03	5.6	8.0	10.4	12.5	14.5	16.2	26.8	30.5	31.5	31.9	32.0	32.0	32.1
0.4000E-03	10.6	13.5	16.1	18.3	20.2	21.9	30.2	31.7	32.0	32.1	32.1	32.1	32.1
0.6000E-03	13.9	16.9	19.4	21.6	23.4	25.0	31.2	32.0	32.1	32.1	32.1	32.1	32.1
0.8000E-03	16.3	19.3	21.8	23.9	25.6	27.0	31.7	32.1	32.1	32.1	32.1	32.1	32.1
0.1000E-02	18.2	21.2	23.6	25.6	27.1	28.4	31.9	32.1	32.1	32.1	32.1	32.1	32.1
0.2000E-02	24.0	26.7	28.6	29.9	30.8	31.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2
0.4000E-02	29.4	31.1	32.0	32.4	32.6	32.6	32.5	32.4	32.4	32.3	32.3	32.3	32.3
0.6000E-02	32.0	32.8	33.1	33.2	33.2	33.1	32.7	32.6	32.6	32.6	32.6	32.6	32.6
0.8000E-02	33.4	33.8	33.8	33.7	33.6	33.5	33.1	33.0	32.9	32.9	32.9	32.9	32.9
0.1000E-01	34.4	34.5	34.3	34.2	34.0	33.9	33.4	33.3	33.3	33.3	33.3	33.3	33.3
0.2000E-01	37.4	37.1	36.8	36.5	36.4	36.3	35.9	35.8	35.7	35.7	35.7	35.7	35.7
0.4000E-01	42.3	41.9	41.6	41.5	41.3	41.2	40.9	40.9	40.9	40.8	40.8	40.8	40.8
0.6000E-01	46.6	46.2	46.0	45.9	45.7	45.7	45.4	45.4	45.4	45.4	45.3	45.3	45.3
0.8000E-01	50.5	50.1	49.9	49.8	49.7	49.6	49.4	49.4	49.4	49.4	49.4	49.4	49.4
0.1000E 00	54.0	53.7	53.5	53.4	53.3	53.3	53.1	53.0	53.0	53.0	53.0	53.0	53.0
0.2000E 00	68.7	68.5	68.4	68.3	68.2	68.2	68.1	68.0	68.0	68.0	68.0	68.0	68.0
0.3000E 00	80.5	80.3	80.2	80.1	80.1	80.1	79.9	79.9	79.9	79.9	79.9	79.9	79.9
0.4000E 00	90.5	90.4	90.3	90.2	90.2	90.2	90.1	90.0	90.0	90.0	90.0	90.0	90.0
0.5000E 00	99.4	99.3	99.2	99.2	99.1	99.1	99.0	99.0	99.0	99.0	99.0	99.0	99.0
0.6000E 00	107.4	107.3	107.2	107.2	107.2	107.1	107.1	107.0	107.0	107.0	107.0	107.0	107.0
0.7000E 00	114.8	114.7	114.6	114.6	114.5	114.5	114.4	114.4	114.4	114.4	114.4	114.4	114.4
0.8000E 00	121.6	121.5	121.4	121.4	121.3	121.3	121.2	121.2	121.2	121.2	121.2	121.2	121.2
0.9000E 00	127.9	127.8	127.7	127.7	127.7	127.7	127.6	127.6	127.6	127.6	127.6	127.6	127.6
0.1000E 01	133.8	133.7	133.7	133.7	133.6	133.6	133.5	133.5	133.5	133.5	133.5	133.5	133.5
0.1100E 01	139.4	139.3	139.3	139.3	139.2	139.2	139.2	139.1	139.1	139.1	139.1	139.1	139.1
0.1200E 01	144.7	144.6	144.6	144.6	144.5	144.5	144.5	144.5	144.5	144.4	144.4	144.4	144.4
0.1300E 01	149.8	149.7	149.6	149.6	149.6	149.6	149.5	149.5	149.5	149.5	149.5	149.5	149.5
0.1400E 01	154.5	154.5	154.4	154.4	154.4	154.4	154.3	154.3	154.3	154.3	154.3	154.3	154.3
0.1500E 01	159.1	159.0	159.0	159.0	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9

-20. LOG /T/ VLAM.D/W**2D= 0.900000E-01 Y= 0.

D/LAM.D W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.7	14.3	18.0	20.9	23.2	25.1
0.2000E-04	0.1	0.2	0.4	0.7	1.1	1.5	8.8	15.3	20.0	23.4	25.8	27.5	28.7
0.4000E-04	0.4	0.9	1.5	2.3	3.2	4.3	14.3	20.9	25.1	27.6	29.1	29.9	30.4
0.6000E-04	0.9	1.7	2.8	4.0	5.4	6.8	17.7	23.9	27.4	29.2	30.1	30.5	30.8
0.8000E-04	1.5	2.7	4.2	5.7	7.3	8.8	20.0	25.8	28.7	30.0	30.5	30.8	30.9
0.1000E-03	2.2	3.7	5.4	7.2	8.9	10.6	21.7	27.1	29.4	30.3	30.7	30.9	31.0
0.2000E-03	5.6	8.1	10.4	12.5	14.5	16.2	26.5	29.8	30.6	30.9	31.0	31.1	31.1
0.4000E-03	10.6	13.5	16.0	18.2	20.2	21.8	29.5	30.8	31.0	31.1	31.1	31.1	31.1
0.6000E-03	13.9	16.9	19.4	21.5	23.3	24.8	30.4	31.0	31.1	31.1	31.1	31.1	31.1
0.8000E-03	16.3	19.3	21.7	23.7	25.4	26.7	30.8	31.1	31.1	31.1	31.1	31.1	31.1
0.1000E-02	18.1	21.1	23.5	25.4	26.8	27.9	31.0	31.1	31.1	31.1	31.1	31.1	31.1
0.2000E-02	23.9	26.4	28.1	29.3	30.0	30.5	31.2	31.2	31.2	31.2	31.2	31.2	31.2
0.4000E-02	28.9	30.3	31.0	31.4	31.5	31.6	31.4	31.3	31.3	31.3	31.3	31.3	31.3
0.6000E-02	31.1	31.8	32.0	32.0	32.0	31.9	31.6	31.5	31.5	31.5	31.5	31.5	31.5
0.8000E-02	32.3	32.5	32.5	32.4	32.3	32.3	31.9	31.8	31.8	31.8	31.7	31.7	31.7
0.1000E-01	33.1	33.1	33.0	32.8	32.7	32.6	32.2	32.1	32.1	32.1	32.1	32.1	32.1
0.2000E-01	35.6	35.3	35.0	34.9	34.7	34.6	34.3	34.2	34.2	34.2	34.2	34.2	34.2
0.4000E-01	40.0	39.7	39.5	39.3	39.2	39.1	38.9	38.8	38.8	38.8	38.8	38.8	38.8
0.6000E-01	44.0	43.7	43.5	43.4	43.3	43.2	43.0	43.0	43.0	43.0	43.0	43.0	43.0
0.8000E-01	47.6	47.3	47.2	47.1	47.0	46.9	46.7	46.7	46.7	46.7	46.7	46.7	46.7
0.1000E 00	50.9	50.7	50.5	50.4	50.3	50.3	50.1	50.1	50.1	50.1	50.1	50.1	50.1
0.2000E 00	64.7	64.5	64.4	64.3	64.3	64.2	64.1	64.1	64.1	64.1	64.1	64.1	64.1
0.3000E 00	75.7	75.5	75.4	75.4	75.3	75.3	75.2	75.2	75.2	75.2	75.2	75.2	75.2
0.4000E 00	85.1	84.9	84.9	84.8	84.8	84.7	84.7	84.7	84.6	84.6	84.6	84.6	84.6
0.5000E 00	93.4	93.2	93.2	93.1	93.1	93.1	93.0	93.0	93.0	93.0	93.0	93.0	93.0
0.6000E 00	100.8	100.7	100.7	100.6	100.6	100.6	100.5	100.5	100.5	100.5	100.5	100.5	100.5
0.7000E 00	107.7	107.6	107.5	107.5	107.5	107.4	107.4	107.4	107.4	107.4	107.4	107.4	107.4
0.8000E 00	114.0	113.9	113.9	113.8	113.8	113.8	113.7	113.7	113.7	113.7	113.7	113.7	113.7
0.9000E 00	119.9	119.8	119.7	119.7	119.7	119.7	119.6	119.6	119.6	119.6	119.6	119.6	119.6
0.1000E 01	125.4	125.3	125.3	125.2	125.2	125.2	125.1	125.1	125.1	125.1	125.1	125.1	125.1
0.1100E 01	130.6	130.5	130.4	130.4	130.4	130.4	130.3	130.3	130.3	130.3	130.3	130.3	130.3
0.1200E 01	135.5	135.4	135.3	135.3	135.3	135.3	135.2	135.2	135.2	135.2	135.2	135.2	135.2
0.1300E 01	140.1	140.0	140.0	140.0	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9	139.9
0.1400E 01	144.5	144.5	144.4	144.4	144.4	144.4	144.3	144.3	144.3	144.3	144.3	144.3	144.3
0.1500E 01	148.7	148.7	148.6	148.6	148.6	148.6	148.5	148.5	148.5	148.5	148.5	148.5	148.5

-20. LOG /T/ VLAM.0/W**2D= 0.100000E 00 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.4	4.3	9.7	14.3	18.0	20.8	23.1	24.9
0.2000E-04	0.1	0.2	0.4	0.7	1.1	1.5	8.9	15.3	19.9	23.2	25.6	27.1	28.2
0.4000E-04	0.4	0.9	1.5	2.3	3.2	4.3	14.3	20.9	24.9	27.2	28.5	29.2	29.6
0.6000E-04	0.9	1.7	2.8	4.1	5.4	6.8	17.7	23.8	27.0	28.6	29.4	29.8	29.9
0.8000E-04	1.5	2.7	4.2	5.7	7.3	8.9	19.9	25.6	28.2	29.3	29.7	30.0	30.1
0.1000E-03	2.2	3.7	5.5	7.2	8.9	10.6	21.7	26.8	28.8	29.6	29.9	30.0	30.1
0.2000E-03	5.6	8.1	10.4	12.5	14.5	16.2	26.2	29.1	29.8	30.1	30.1	30.2	30.2
0.4000E-03	10.6	13.5	16.0	18.2	20.1	21.7	28.9	30.0	30.1	30.2	30.2	30.2	30.2
0.6000E-03	13.9	16.9	19.4	21.4	23.2	24.6	29.6	30.1	30.2	30.2	30.2	30.2	30.2
0.8000E-03	16.3	19.2	21.6	23.6	25.1	26.4	29.9	30.2	30.2	30.2	30.2	30.2	30.2
0.1000E-02	18.1	21.0	23.3	25.1	26.5	27.5	30.1	30.2	30.2	30.2	30.2	30.2	30.2
0.2000E-02	23.7	26.1	27.7	28.7	29.3	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3
0.4000E-02	28.4	29.6	30.2	30.5	30.6	30.6	30.5	30.4	30.4	30.4	30.4	30.4	30.4
0.6000E-02	30.3	30.8	31.0	31.0	31.0	30.9	30.6	30.6	30.5	30.5	30.5	30.5	30.5
0.8000E-02	31.3	31.4	31.4	31.3	31.2	31.2	30.9	30.8	30.8	30.8	30.7	30.7	30.7
0.1000E-01	31.9	31.9	31.8	31.6	31.5	31.4	31.1	31.1	31.0	31.0	31.0	31.0	31.0
0.2000E-01	34.1	33.8	33.6	33.4	33.3	33.2	32.9	32.9	32.8	32.8	32.8	32.8	32.8
0.4000E-01	38.1	37.8	37.6	37.5	37.4	37.3	37.1	37.1	37.1	37.1	37.1	37.1	37.1
0.6000E-01	41.8	41.6	41.4	41.3	41.2	41.2	41.0	41.0	40.9	40.9	40.9	40.9	40.9
0.8000E-01	45.2	45.0	44.8	44.7	44.7	44.6	44.5	44.4	44.4	44.4	44.4	44.4	44.4
0.1000E 00	48.3	48.1	48.0	47.9	47.8	47.8	47.6	47.6	47.6	47.6	47.6	47.6	47.6
0.2000E 00	61.2	61.1	61.0	60.9	60.9	60.9	60.8	60.7	60.7	60.7	60.7	60.7	60.7
0.3000E 00	71.6	71.5	71.4	71.3	71.3	71.3	71.2	71.2	71.2	71.2	71.2	71.2	71.2
0.4000E 00	80.4	80.3	80.2	80.2	80.2	80.2	80.1	80.1	80.1	80.1	80.1	80.1	80.1
0.5000E 00	88.2	88.1	88.1	88.0	88.0	88.0	87.9	87.9	87.9	87.9	87.9	87.9	87.9
0.6000E 00	95.2	95.1	95.1	95.1	95.0	95.0	95.0	95.0	94.9	94.9	94.9	94.9	94.9
0.7000E 00	101.6	101.6	101.5	101.5	101.5	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4
0.8000E 00	107.6	107.5	107.4	107.4	107.4	107.4	107.3	107.3	107.3	107.3	107.3	107.3	107.3
0.9000E 00	113.1	113.0	112.9	112.9	112.9	112.9	112.8	112.8	112.8	112.8	112.8	112.8	112.8
0.1000E 01	118.2	118.1	118.1	118.1	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
0.1100E 01	123.0	123.0	122.9	122.9	122.9	122.9	122.8	122.8	122.8	122.8	122.8	122.8	122.8
0.1200E 01	127.6	127.5	127.5	127.5	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4
0.1300E 01	131.9	131.8	131.8	131.8	131.8	131.8	131.8	131.7	131.7	131.7	131.7	131.7	131.7
0.1400E 01	136.0	135.9	135.9	135.9	135.9	135.9	135.8	135.8	135.8	135.8	135.8	135.8	135.8
0.1500E 01	139.9	139.8	139.8	139.8	139.8	139.8	139.7	139.7	139.7	139.7	139.7	139.7	139.7

-20. LOG /T/ VLAM.0/W**2D= 0.200000E 00 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.5	4.4	9.9	14.3	17.5	19.8	21.4	22.4
0.2000E-04	0.1	0.2	0.4	0.7	1.1	1.6	9.0	15.2	19.1	21.5	22.8	23.5	23.8
0.4000E-04	0.5	0.9	1.5	2.4	3.4	4.4	14.3	19.8	22.4	23.5	24.0	24.2	24.3
0.6000E-04	1.0	1.8	2.9	4.2	5.6	6.9	17.3	21.8	23.4	24.0	24.2	24.3	24.4
0.8000E-04	1.6	2.8	4.3	5.9	7.5	9.0	19.1	22.8	23.9	24.2	24.3	24.4	24.4
0.1000E-03	2.3	3.9	5.6	7.4	9.1	10.7	20.4	23.3	24.1	24.3	24.4	24.4	24.4
0.2000E-03	5.7	8.2	10.5	12.6	14.4	16.0	23.1	24.2	24.4	24.4	24.4	24.5	24.5
0.4000E-03	10.7	13.5	15.8	17.7	19.3	20.5	24.1	24.4	24.4	24.5	24.5	24.5	24.5
0.6000E-03	13.8	16.6	18.7	20.3	21.4	22.3	24.3	24.4	24.5	24.5	24.5	24.5	24.5
0.8000E-03	16.0	18.6	20.4	21.7	22.5	23.1	24.4	24.5	24.5	24.5	24.5	24.5	24.5
0.1000E-02	17.6	20.0	21.5	22.5	23.2	23.6	24.4	24.5	24.5	24.5	24.5	24.5	24.5
0.2000E-02	21.7	23.0	23.7	24.0	24.2	24.3	24.5	24.5	24.5	24.5	24.5	24.5	24.5
0.4000E-02	24.0	24.3	24.5	24.5	24.6	24.6	24.5	24.5	24.5	24.5	24.5	24.5	24.5
0.6000E-02	24.6	24.7	24.7	24.7	24.7	24.7	24.6	24.6	24.6	24.5	24.5	24.5	24.5
0.8000E-02	24.8	24.8	24.8	24.8	24.7	24.7	24.6	24.6	24.6	24.6	24.6	24.6	24.6
0.1000E-01	25.0	25.0	24.9	24.9	24.8	24.8	24.7	24.7	24.7	24.7	24.7	24.7	24.7
0.2000E-01	25.8	25.6	25.6	25.5	25.5	25.4	25.4	25.3	25.3	25.3	25.3	25.3	25.3
0.4000E-01	27.7	27.5	27.5	27.4	27.4	27.4	27.3	27.3	27.3	27.3	27.3	27.3	27.3
0.6000E-01	29.8	29.7	29.7	29.6	29.6	29.6	29.5	29.5	29.5	29.5	29.5	29.5	29.5
0.8000E-01	31.9	31.9	31.8	31.8	31.8	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
0.1000E 00	33.9	33.9	33.8	33.8	33.8	33.8	33.7	33.7	33.7	33.7	33.7	33.7	33.7
0.2000E 00	42.4	42.4	42.3	42.3	42.3	42.3	42.2	42.2	42.2	42.2	42.2	42.2	42.2
0.3000E 00	49.2	49.2	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
0.4000E 00	55.0	55.0	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
0.5000E 00	60.0	60.0	60.0	60.0	60.0	60.0	59.9	59.9	59.9	59.9	59.9	59.9	59.9
0.6000E 00	64.5	64.5	64.5	64.5	64.5	64.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4
0.7000E 00	68.6	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
0.8000E 00	72.3	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
0.9000E 00	75.6	75.6	75.6	75.6	75.6	75.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5
0.1000E 01	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
0.1100E 01	81.6	81.6	81.6	81.6	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
0.1200E 01	84.3	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
0.1300E 01	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
0.1400E 01	89.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
0.1500E 01	91.2	91.7	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2

-20. LOG /T/ VLAM.0/W**20* 0.300000E 00 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.5	4.6	9.9	14.1	16.8	18.5	19.6	20.2
0.2000E-04	0.1	0.3	0.5	0.8	1.2	1.7	9.1	14.8	18.0	19.6	20.4	20.7	20.9
0.4000E-04	0.5	0.9	1.6	2.5	3.5	4.6	14.1	18.5	20.2	20.7	21.0	21.1	21.1
0.6000E-04	1.0	1.9	3.0	4.3	5.7	7.1	16.5	19.8	20.7	21.0	21.1	21.1	21.2
0.8000E-04	1.7	2.9	4.4	6.0	7.6	9.1	18.0	20.4	20.9	21.1	21.1	21.2	21.2
0.1000E-03	2.4	4.0	5.8	7.5	9.2	10.7	18.9	20.6	21.0	21.1	21.2	21.2	21.2
0.2000E-03	5.9	8.0	10.6	12.5	14.2	15.5	20.5	21.1	21.2	21.2	21.2	21.2	21.2
0.4000E-03	10.7	13.4	15.4	17.0	18.1	19.0	21.0	21.2	21.2	21.2	21.2	21.2	21.2
0.6000E-03	13.7	16.0	17.7	18.8	19.6	20.1	21.1	21.2	21.2	21.2	21.2	21.2	21.2
0.8000E-03	15.6	17.6	18.9	19.7	20.2	20.6	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.1000E-02	16.9	18.6	19.6	20.2	20.6	20.8	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.2000E-02	19.8	20.5	20.8	21.0	21.1	21.1	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.4000E-02	21.0	21.1	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.6000E-02	21.3	21.3	21.3	21.3	21.3	21.3	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.8000E-02	21.4	21.4	21.4	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
0.1000E-01	21.5	21.4	21.4	21.4	21.4	21.4	21.3	21.3	21.3	21.3	21.3	21.3	21.3
0.2000E-01	21.8	21.8	21.7	21.7	21.7	21.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
0.4000E-01	22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
0.6000E-01	24.4	24.3	24.3	24.3	24.3	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
0.8000E-01	25.9	25.8	25.8	25.8	25.8	25.8	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.1000E 00	27.4	27.3	27.3	27.3	27.3	27.3	27.3	27.2	27.2	27.2	27.2	27.2	27.2
0.2000E 00	33.9	33.9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
0.3000E 00	39.1	39.1	39.1	39.1	39.1	39.1	39.0	39.0	39.0	39.0	39.0	39.0	39.0
0.4000E 00	43.5	43.5	43.5	43.5	43.5	43.5	43.4	43.4	43.4	43.4	43.4	43.4	43.4
0.5000E 00	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
0.6000E 00	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
0.7000E 00	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
0.8000E 00	56.3	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
0.9000E 00	58.7	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
0.1000E 01	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
0.1100E 01	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
0.1200E 01	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
0.1300E 01	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
0.1400E 01	67.8	67.8	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
0.1500E 01	69.2	69.2	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1

-20. LOG /T/ VLAM.O/We*2D= 0.400000E 00 Y= 0.

D/LAM.O \ W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.3	0.5	4.7	9.9	13.7	16.0	17.3	18.0	18.3
0.2000E-04	0.1	0.3	0.5	0.8	1.2	1.7	9.1	14.4	16.9	18.0	18.5	18.7	18.8
0.4000E-04	0.5	1.0	1.7	2.6	3.6	4.7	13.7	17.3	18.3	18.7	18.8	18.9	18.9
0.6000E-04	1.1	2.0	3.1	4.4	5.8	7.2	15.8	18.1	18.7	18.8	18.9	18.9	18.9
0.8000E-04	1.7	3.0	4.6	6.1	7.7	9.1	16.9	18.5	18.8	18.9	18.9	18.9	18.9
0.1000E-03	2.5	4.1	5.9	7.6	9.2	10.7	17.5	18.6	18.8	18.9	18.9	18.9	18.9
0.2000E-03	6.0	8.4	10.5	12.3	13.8	15.0	18.6	18.9	18.9	18.9	18.9	18.9	18.9
0.4000E-03	10.7	13.1	14.9	16.1	17.0	17.6	18.8	18.9	18.9	18.9	18.9	18.9	18.9
0.6000E-03	13.4	15.4	16.7	17.5	18.0	18.3	18.9	18.9	18.9	18.9	18.9	18.9	18.9
0.8000E-03	15.0	16.6	17.5	18.1	18.4	18.6	18.9	18.9	18.9	18.9	18.9	18.9	18.9
0.1000E-02	16.1	17.3	18.0	18.4	18.6	18.7	18.9	18.9	18.9	18.9	18.9	18.9	18.9
0.2000E-02	18.1	18.5	18.7	18.8	18.9	18.9	19.0	18.9	18.9	18.9	18.9	18.9	18.9
0.4000E-02	18.8	18.9	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
0.6000E-02	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
0.8000E-02	19.1	19.1	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
0.1000E-01	19.1	19.1	19.1	19.1	19.1	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
0.2000E-01	19.3	19.3	19.3	19.3	19.3	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
0.4000E-01	20.1	20.0	20.0	20.0	20.0	20.0	20.0	19.9	19.9	19.9	19.9	19.9	19.9
0.6000E-01	21.1	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
0.8000E-01	22.2	22.2	22.2	22.2	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
0.1000E 00	23.4	23.4	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
0.2000E 00	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.6	28.6	28.6	28.6	28.6	28.6
0.3000E 00	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
0.4000E 00	36.6	36.6	36.6	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
0.5000E 00	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6
0.6000E 00	42.3	42.3	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2
0.7000E 00	44.6	44.6	44.6	44.6	44.6	44.6	44.6	44.5	44.5	44.5	44.5	44.5	44.5
0.8000E 00	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
0.9000E 00	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
0.1000E 01	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
0.1100E 01	51.5	51.5	51.5	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
0.1200E 01	52.8	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
0.1300E 01	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
0.1400E 01	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
0.1500E 01	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9

-20. LOG /T/ VLAM.D/W**2D= 0.500000E 00 Y= 0.

D/LAM.D \ W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.4	0.5	4.8	9.9	13.3	15.2	16.1	16.6	16.9
0.2000E-04	0.1	0.3	0.5	0.8	1.3	1.8	9.1	13.9	15.8	16.6	16.9	17.1	17.1
0.4000E-04	0.5	1.0	1.7	2.6	3.7	4.8	13.3	16.1	16.9	17.1	17.2	17.2	17.2
0.6000E-04	1.1	2.0	3.2	4.5	5.9	7.2	15.0	16.7	17.1	17.2	17.2	17.2	17.2
0.8000E-04	1.8	3.1	4.7	6.2	7.7	9.1	15.9	16.9	17.1	17.2	17.2	17.2	17.2
0.1000E-03	2.6	4.2	6.0	7.7	9.2	10.6	16.3	17.0	17.2	17.2	17.2	17.2	17.2
0.2000E-03	6.1	8.4	10.5	12.1	13.4	14.3	17.0	17.2	17.2	17.2	17.2	17.2	17.2
0.4000E-03	10.6	12.8	14.3	15.2	15.9	16.3	17.2	17.2	17.2	17.2	17.2	17.2	17.2
0.6000E-03	13.0	14.7	15.7	16.3	16.6	16.8	17.2	17.2	17.2	17.2	17.2	17.2	17.2
0.8000E-03	14.4	15.6	16.3	16.7	16.9	17.0	17.2	17.2	17.2	17.2	17.2	17.2	17.2
0.1000E-02	15.2	16.2	16.6	16.9	17.0	17.1	17.2	17.2	17.2	17.2	17.2	17.2	17.2
0.2000E-02	16.7	17.0	17.1	17.2	17.2	17.2	17.3	17.3	17.2	17.2	17.2	17.2	17.2
0.4000E-02	17.2	17.2	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.6000E-02	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.8000E-02	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.1000E-01	17.4	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.2000E-01	17.5	17.5	17.5	17.5	17.5	17.5	17.4	17.4	17.4	17.4	17.4	17.4	17.4
0.4000E-01	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
0.6000E-01	18.8	18.8	18.8	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
0.8000E-01	19.7	19.7	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
0.1000E 00	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
0.2000E 00	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
0.3000E 00	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
0.4000E 00	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
0.5000E 00	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
0.6000E 00	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
0.7000E 00	38.4	38.4	38.4	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
0.8000E 00	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
0.9000E 00	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
0.1000E 01	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
0.1100E 01	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7	43.7
0.1200E 01	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
0.1300E 01	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
0.1400E 01	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
0.1500E 01	47.0	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9

-20. LOG /T/ VLAM.O/W**2D= 0.600000E 00 Y= 0.

D/LAM.O W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.4	0.6	4.9	9.8	12.8	14.4	15.1	15.4	15.6
0.2000E-04	0.1	0.3	0.5	0.9	1.3	1.9	9.1	13.3	14.9	15.5	15.7	15.8	15.8
0.4000E-04	0.6	1.1	1.8	2.7	3.8	4.9	12.8	15.1	15.6	15.8	15.8	15.9	15.9
0.6000E-04	1.2	2.1	3.3	4.6	6.0	7.3	14.2	15.5	15.8	15.8	15.9	15.9	15.9
0.8000E-04	1.9	3.2	4.8	6.3	7.8	9.1	14.9	15.7	15.8	15.9	15.9	15.9	15.9
0.1000E-03	2.6	4.3	6.0	7.7	9.2	10.4	15.2	15.8	15.9	15.9	15.9	15.9	15.9
0.2000E-03	6.2	8.4	10.3	11.8	12.9	13.7	15.7	15.9	15.9	15.9	15.9	15.9	15.9
0.4000E-03	10.4	12.4	13.6	14.4	14.9	15.2	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.6000E-03	12.6	14.0	14.7	15.2	15.4	15.6	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.8000E-03	13.7	14.7	15.2	15.5	15.6	15.7	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.1000E-02	14.4	15.1	15.5	15.6	15.7	15.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.2000E-02	15.5	15.7	15.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.4000E-02	15.8	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.6000E-02	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.8000E-02	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.1000E-01	16.0	16.0	16.0	16.0	16.0	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
0.2000E-01	16.1	16.1	16.1	16.1	16.1	16.1	16.0	16.0	16.0	16.0	16.0	16.0	16.0
0.4000E-01	16.5	16.5	16.5	16.5	16.5	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
0.6000E-01	17.1	17.1	17.1	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
0.8000E-01	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.7	17.7	17.7	17.7	17.7	17.7
0.1000E 00	18.6	18.6	18.6	18.6	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
0.2000E 00	22.5	22.5	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
0.3000E 00	25.7	25.7	25.7	25.7	25.7	25.6	25.6	25.6	25.6	25.6	25.6	25.6	25.6
0.4000E 00	28.3	28.3	28.3	28.3	28.3	28.3	28.2	28.2	28.2	28.2	28.2	28.2	28.2
0.5000E 00	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
0.6000E 00	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
0.7000E 00	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.7	33.7	33.7	33.7	33.7
0.8000E 00	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
0.9000E 00	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
0.1000E 01	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
0.1100E 01	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
0.1200E 01	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
0.1300E 01	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
0.1400E 01	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
0.1500E 01	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4

-20. LOG /T/ VLAM.D/W**2D= 0.700000E 00 Y= 0.

D/LAM.0 W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.1	0.2	0.4	0.6	4.9	9.7	12.4	13.6	14.2	14.4	14.6
0.2000E-04	0.2	0.3	0.6	0.9	1.4	1.9	9.0	12.8	14.0	14.5	14.6	14.7	14.7
0.4000E-04	0.6	1.1	1.9	2.8	3.8	4.9	12.4	14.2	14.6	14.7	14.7	14.8	14.8
0.6000E-04	1.2	2.2	3.4	4.7	6.0	7.3	13.5	14.5	14.7	14.8	14.8	14.8	14.8
0.8000E-04	1.9	3.3	4.8	6.4	7.8	9.0	14.0	14.6	14.7	14.8	14.8	14.8	14.8
0.1000E-03	2.7	4.4	6.1	7.7	9.1	10.2	14.3	14.7	14.8	14.8	14.8	14.8	14.8
0.2000E-03	6.2	8.4	10.1	11.5	12.4	13.1	14.7	14.8	14.8	14.8	14.8	14.8	14.8
0.4000E-03	10.3	12.0	13.0	13.7	14.1	14.3	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.6000E-03	12.1	13.3	13.9	14.3	14.5	14.6	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.8000E-03	13.1	13.9	14.3	14.5	14.6	14.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.1000E-02	13.6	14.2	14.5	14.6	14.7	14.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.2000E-02	14.5	14.7	14.7	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.4000E-02	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.6000E-02	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.8000E-02	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.1000E-01	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
0.2000E-01	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
0.4000E-01	15.3	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
0.6000E-01	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
0.8000E-01	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
0.1000E 00	17.0	17.0	17.0	17.0	17.0	17.0	16.9	16.9	16.9	16.9	16.9	16.9	16.9
0.2000E 00	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
0.3000E 00	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
0.4000E 00	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
0.5000E 00	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
0.6000E 00	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
0.7000E 00	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
0.8000E 00	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
0.9000E 00	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
0.1000E 01	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
0.1100E 01	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
0.1200E 01	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
0.1300E 01	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
0.1400E 01	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1
0.1500E 01	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5

-20. LOG /T/ VLAM.D/W**2D= 0.800000E 00 Y= 0.

D/LAM.D W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.2	0.3	0.4	0.6	5.0	9.5	11.9	12.9	13.4	13.6	13.7
0.2000E-04	0.2	0.3	0.6	0.9	1.4	2.0	8.9	12.2	13.3	13.6	13.7	13.8	13.8
0.4000E-04	0.6	1.2	1.9	2.9	3.9	5.0	11.9	13.4	13.7	13.8	13.8	13.8	13.8
0.8000E-04	1.2	2.2	3.5	4.8	6.1	7.3	12.9	13.6	13.8	13.8	13.8	13.8	13.8
0.1000E-03	2.0	3.4	4.9	6.4	7.7	8.9	13.3	13.7	13.8	13.8	13.8	13.8	13.8
0.2000E-03	3.8	4.4	6.1	7.7	9.0	10.0	13.5	13.8	13.8	13.8	13.8	13.8	13.9
0.2000E-03	6.2	8.3	9.9	11.1	11.9	12.5	13.8	13.8	13.8	13.8	13.9	13.9	13.9
0.4000E-03	10.0	11.6	12.5	13.0	13.3	13.5	13.8	13.8	13.9	13.9	13.9	13.9	13.9
0.6000E-03	11.7	12.7	13.2	13.4	13.6	13.7	13.8	13.9	13.9	13.9	13.9	13.9	13.9
0.8000E-03	12.5	13.2	13.5	13.6	13.7	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9
0.1000E-02	13.0	13.4	13.6	13.7	13.8	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9
0.2000E-02	13.6	13.8	13.8	13.8	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.4000E-02	13.8	13.8	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.6000E-02	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.8000E-02	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.1000E-01	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.2000E-01	14.0	14.0	14.0	14.0	14.0	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
0.4000E-01	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
0.6000E-01	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
0.8000E-01	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
0.1000E 00	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
0.2000E 00	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
0.3000E 00	21.3	21.3	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.4000E 00	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
0.5000E 00	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
0.6000E 00	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
0.7000E 00	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
0.8000E 00	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
0.9000E 00	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
0.1000E 01	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6
0.1100E 01	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
0.1200E 01	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
0.1300E 01	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
0.1400E 01	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
0.1500E 01	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6

-20. LOG /T/ VLAM.D/W**2D= 0.900000E 00 Y= D.

D/LAM.D \ N	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.2	0.3	0.4	0.6	5.1	9.3	11.4	12.3	12.7	12.8	12.9
0.2000E-04	0.2	0.3	0.6	1.0	1.5	2.0	8.8	11.7	12.6	12.8	12.9	13.0	13.0
0.4000E-04	0.6	1.2	2.0	2.9	4.0	5.1	11.4	12.7	12.9	13.0	13.0	13.0	13.0
0.6000E-04	1.3	2.3	3.5	4.8	6.1	7.3	12.3	12.9	13.0	13.0	13.0	13.0	13.0
0.8000E-04	2.0	3.4	4.9	6.4	7.7	8.8	12.6	12.9	13.0	13.0	13.0	13.0	13.0
0.1000E-03	2.8	4.5	6.2	7.6	8.8	9.8	12.7	13.0	13.0	13.0	13.0	13.0	13.0
0.2000E-03	6.3	8.2	9.7	10.8	11.5	11.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.4000E-03	9.8	11.2	11.9	12.3	12.6	12.7	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.6000E-03	11.3	12.1	12.5	12.7	12.8	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.8000E-03	12.0	12.5	12.7	12.9	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.1000E-02	12.3	12.7	12.9	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.2000E-02	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
0.4000E-02	13.0	13.0	13.0	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0	13.0	13.0
0.6000E-02	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.8000E-02	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.1000E-01	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.2000E-01	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
0.4000E-01	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
0.6000E-01	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
0.8000E-01	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
0.1000E 00	14.6	14.6	14.6	14.6	14.6	14.6	14.5	14.6	14.6	14.6	14.6	14.6	14.6
0.2000E 00	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
0.3000E 00	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
0.4000E 00	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
0.5000E 00	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
0.6000E 00	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
0.7000E 00	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
0.8000E 00	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.9000E 00	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
0.1000E 01	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9	26.9
0.1100E 01	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3
0.1200E 01	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
0.1300E 01	28.0	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
0.1400E 01	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2
0.1500E 01	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4

-20. LOG /T/ VLAM.D/W**2D= 0.100000E 31 Y= 3.

D/LAM.D W	50.00	60.00	70.00	80.00	90.00	100.00	200.00	300.00	400.00	500.00	600.00	700.00	800.00
0.1000E-04	0.0	0.1	0.2	0.3	0.4	0.6	5.1	9.2	11.0	11.7	12.0	12.2	12.2
0.2000E-04	0.2	0.3	0.6	1.0	1.5	2.1	8.6	11.3	12.0	12.2	12.3	12.3	12.3
0.4000E-04	0.6	1.2	2.0	3.0	4.0	5.1	11.0	12.0	12.2	12.3	12.3	12.3	12.3
0.6000E-04	1.3	2.4	3.6	4.9	6.1	7.2	11.7	12.2	12.3	12.3	12.3	12.3	12.3
0.8000E-04	2.1	3.5	5.0	6.4	7.6	8.6	12.0	12.3	12.3	12.3	12.3	12.3	12.3
0.1000E-03	2.9	4.6	6.2	7.6	8.7	9.6	12.1	12.3	12.3	12.3	12.3	12.3	12.3
0.2000E-03	6.3	8.1	9.5	10.4	11.0	11.4	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.4000E-03	9.6	10.8	11.4	11.8	12.0	12.1	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.6000E-03	10.9	11.6	11.9	12.1	12.2	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.8000E-03	11.5	11.9	12.1	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.1000E-02	11.8	12.1	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.2000E-02	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.4000E-02	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
0.6000E-02	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.3	12.3	12.3	12.3	12.3
0.8000E-02	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
0.1000E-01	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
0.2000E-01	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
0.4000E-01	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
0.6000E-01	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
0.8000E-01	13.3	13.3	13.3	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2
0.1000E 00	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
0.2000E 00	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
0.3000E 00	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
0.4000E 00	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
0.5000E 00	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
0.6000E 00	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
0.7000E 00	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
0.8000E 00	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
0.9000E 00	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
0.1000E 01	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
0.1100E 01	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9
0.1200E 01	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
0.1300E 01	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
0.1400E 01	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
0.1500E 01	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8

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13. ABSTRACT

The reentry signal attenuation calculations presented in this volume are a part of the lifting reentry communication system study described in Vols. I and II. Extensive plane wave attenuation tables are given for the following plasma conditions:

$$0.8 \leq \omega_p/\omega \leq 800$$
$$10^{-4} \leq d/\lambda_0 \leq 3.5$$
$$10^{-4} \leq 2\pi c\nu/\omega_p^2 d \leq 1.0$$

A brief review of the plane wave analysis is also included. Plasma antenna effects and the effects of inhomogeneities in the plasma sheath are discussed.

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14. KEY WORDS

Communication System
Reentry Communications
Lifting Reentry
Antenna Window
Aerodynamics
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RF Breakdown
Aerodynamic Shaping
Fluid Injection
Magnetic Window
Electrophilic Seeding
Millimeter Waves
Optical Communications Systems
High-Frequency Communications
Communication Blackout

Abstract (Continued)