THE TURBULENT BOUNDARY LAYER ON A POROUS PLATE: AN EXPERIMENTAL STUDY OF THE FLUID MECHANICS FOR ADVERSE FREE-STREAM PRESSURE GRADIENTS

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ABSTRACT

An experimental investigation of transpired turbulent boundary layers in zero and adverse pressure gradients has been carried out. Profiles of: a) the mean velocity, b) the three intensities of the turbulent fluctuations, and c) the Reynolds stress were obtained by hot-wire anemometry. The friction coefficients were measured by using an integrated form of the boundary layer equation to "extrapolate" the measured shear stress profiles to the wall.

The two adverse pressure gradients correspond to freestream velocity distributions of the type, $u_{\infty} \propto x^{m}$, where m < 0. Equilibrium boundary layers (i.e. flows with defect profile similarity) were obtained when the transpiration velocity, v_{0} , was varied such that the blowing parameter, $B = \rho v_{0} u_{\infty} / \tau_{0}$, and the Clauser pressure gradient param-

eter,
$$\beta = \frac{\delta_1}{\tau_0} \frac{dp}{dx}$$
, were held constant.

In the analysis of the data it was found that the Prandtl mixing-length, ℓ , can be expressed as $\ell = \kappa y$ ($\kappa = 0.41$ is the von Karman constant) in the "logarithmic" region of all the mean velocity profiles.

The following new law of the wall,

$$\frac{u}{\sqrt{\tau_c/\rho}} = \frac{1}{0.41} \ln\left(\frac{y\sqrt{\tau_c/\rho}}{v}\right) + 5.0 + 14.0\left(\sqrt{\frac{\tau_o}{\tau_c}} - 1\right)$$

has been proposed and verified for the present data. The shear stress, $\tau_c = \tau(y_c)$ is characteristic for the log-arithmic region. The parameter y_c , which is a measure of the thickness of the viscous sublayer, is related to τ_c through the equation:

$$\frac{y_c}{v} \sqrt{\frac{\tau_c/\rho}{v}} = 72$$

The Reynolds number of turbulence, $\operatorname{Re}_{T} = \ell \sqrt{-u'v'}/\nu$ was found to have the constant value of $\operatorname{Re}_{T,c} = 29$ at $y = y_c$.

Predictions of some of the experimental boundary layers were performed by solving the boundary layer equations numerically. The "mean field closure" in the inner region was provided by van Driests mixing-length model, $\ell = 1 - \exp(-3y/y_c)$. The length scale, y_c , was obtained from $y_c = 72\nu/\sqrt{\tau(y_c)\rho}$ by invoking the computed local shear stress profile.

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NOMENCLATURE

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a		coefficient in Eq. (5-9)
А		length scale in van Driest's mixing-length model, $\ell = \kappa y [1 - \exp(-y/A)]$.
A ⁺	172	Au _t /v
A_0^+		value of A^+ for $v_0^+ = p^+ = 0$
Ъ		exponent in Eq. (5-9)
В	=	$F/(c_f/2)$, blowing parameter
Bo	=	$F/(c_{f}^{2})_{o}$, modified blowing parameter
c _f /2		$\tau_{o}^{}/\rho u_{\infty}^{2}$, friction coefficient
(c _f /2) ₀		friction coefficient for $v_0 = 0$
Е,е,е'		instantaneous value, mean value and fluctuation of linearizer output
F	=	v_o/u_{∞} , blowing fraction
Fl		reference blowing fraction in Eq. (2-13)
G	=	$\frac{1}{\Delta} \int_{0}^{\infty} \frac{u_{\infty} - u}{u_{\tau}}^2 dy$, Clauser shape factor
Н	=	δ_1/δ_2 , shape factor
k	=	€∕δ _l u∞
К	=	$\frac{v}{u_{\infty}^{2}} \frac{du_{\infty}}{dx}$
l	=	$\sqrt{-u'v'} \frac{du}{dy}$, mixing-length
m		exponent in Eq. (2-12)

\mathtt{m}_{F}		exponent in Eq. (2-13)
р		static pressure
p _d		dynamic pressure
^p dl	=	ρu_1^2 , reference dynamic pressure
p ⁺	=	$\frac{\nu}{\rho u_{\tau}^{3}} \frac{dp}{dx}$
${}^{\mathrm{Re}}\delta_{2}$	-	$\delta_2 u_{\infty} / v$, momentum thickness Reynolds number
${ m Re}_{ m T}$	=	$\ell \sqrt{-u'v'}/v$, Reynolds number of turbulence
u,v,w		components of mean velocity
u',v',w'		components of instantaneous turbulent fluctuations
U	=	u + u', instantaneous velocity in the x-direction
ul		reference velocity in Eq. (2-12)
u _i		"indicated" velocity defined by Eq. (A-1)
u _r	=	$\sqrt{\tau_o / \rho}$, friction velocity
u _c	=	$\sqrt{\tau_{\rm c}/ ho}$, "characteristic" velocity scale
u ⁺	=	u/u _t
u_c^+	=	u^+ at $y^+ = y_c^+$
v _o		blowing velocity
v _o +	=	v _o /u _τ
x		streamwise coordinate
× _o		virtual origin of turbulent boundary layer

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reference location in Eqs. (2-12) and (2-13) x₁ coordinate normal to wall У = 3A, characteristic distance from the wall Уc y+ = yu_{τ}/v transverse coordinate \mathbf{Z}

$$\beta = \frac{\delta_1}{\tau_0} \frac{dp}{dx}$$
, Clauser pressure gradient parameter

boundary layer thickness

δ

μ

$$\delta_1 = \int_0^\infty (1 - \frac{u}{u_\infty}) dy$$
, displacement thickness

$$\delta_2 = \int_0^\infty \frac{u}{u_\infty} (1 - \frac{u}{u_\infty}) dy$$
, momentum thickness

^δ99 boundary layer thickness defined such that $u(\delta_{99}) = .99u_{\infty}$

$$\Delta = \int_{0}^{\infty} \frac{u_{\infty} - u}{u_{\tau}} dy , Clauser boundary layer thickness$$

$$\epsilon = \sqrt{-u'v'} / \frac{du}{dy}$$
, eddy viscosity

$$\epsilon^+$$
 = ϵ/ν
 κ von Kármán constant ($l = \kappa y$)
 λ computational value of l/δ_{99} in outer region
 μ dynamic viscosity

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	ν		kinematic viscosity
	ρ		density
	τ		shear stress
	τ _c	=	$\tau(y_{c})$, characteristic shear stress
	τ_{ν}	=	$\mu \frac{du}{dy}$
	τ _ο		shear stress at wall
	τ^+	-	τ/τ ₀
	ϕ		slant of hot-wire
· .	θ		angle of rotation of hot-wire spindle

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CHAPTER 1

PRELIMINARY REMARKS

The present work is primarily concerned with "transpired" turbulent boundary layers, i.e. flows for which the normal velocity at the wall is different from zero. The terms "blowing" and "suction" will be used to describe the direction of the flow normal to the wall.

In the last twenty years interest in transpired turbulent boundary layers has been rapidly increasing and a great number of both experimental and theoretical contributions to the field have been published. For example, the Heat and Mass Transfer group at Stanford University has since 1967 been engaged in a continued effort directed towards the understanding of transpired turbulent boundary layers. Constant pressure boundary layers (Simpson [2]) and boundary layers in favorable pressure gradients (Julien [3], Loyd [4]) have been studied experimentally. Kays [5] summarizes the findings for these flows.

Only one experimental study of turbulent boundary layers in adverse pressure gradients with transpiration has been reported in the literature. McLean [7] studied blown turbulent boundary layers in very strong adverse pressure gradients. The main objective of this work was to study the onset of separation. McLean did not, however, <u>measure</u> the skin friction, but instead relied on Stevenson's [8] law of the wall. This reflects the great difficulty of measurement of the wall shear stress. The severity of this difficulty may be gauged by the very large discrepancies between the skin friction coefficients generated by different experimenters even for the constant pressure blown boundary layers. Squire [6] gives a comparative analysis of McQuaid's [27] and Simpson's [2] data, which disagree considerably.

Coles [24] surveys all existing data for basic transpired turbulent boundary layers.

In the present work it was proposed to determine the wall shear stress by measuring the shear stress away from the wall (as the sum of the Reynolds stress and the viscous stress) and extrapolating to the wall by the integrated boundary layer equations. This novel technique should give a degree of "independence" to the present data.

In addition to investigating the adverse pressure gradient boundary layers, which are the main focus of the present work, it seemed natural to repeat some of Simpson's constant pressure flows. A secondary motivation for doing this was the finding, during exploratory tests, that the mean velocity profiles obtained by hot-wire anemometry differed appreciably (especially very close to the wall) from the earlier flattened pitot tube results of Simpson.

Many ideas have been advanced, over the years, to provide a mean field closure (i.e. an empirical relationship between the shear stress profile and the mean velocity profile). Some of these will be treated as an introduction to the present treatment of the problem of closure. The idea of a law of the wall for transpired boundary layers will likewise be discussed and the empirical bases for some of the laws which have been proposed in the literature will be treated as an introduction to the present attack on the problem.

2

CHAPTER 2

EXPERIMENTAL BOUNDARY CONDITIONS

The principal objective of the experimental part of the present study has been to provide measurements for transpired boundary layers in adverse pressure gradients.

The experimental program was carried out on the Stanford Heat and Mass Transfer Apparatus [1] which has been modified to permit the establishment and accurate control of adverse pressure gradients.

It has been attempted to remove all complicating circumstances from the basic problem. This investigation is therefore limited to low speed, constant property flows with the transpiration fluid being the same as the free-stream fluid (air). Boundary conditions leading to strong deviations from "equilibrium" (e.g. steps in the pressure gradient or in the transpiration rate) have been avoided. Adverse pressure gradients strong enough to cause separation are also outside the scope of this investigation.

It is well known that the "outer region" (say the outer 90%) of the boundary layer reacts much slower than the inner wall region to changes in the boundary conditions. In fact, for most continuously varying boundary conditions the wall region may be considered to be in "equilibrium" in the sense that only local values of the pressure gradient and transpiration rate are important. The outer region of the boundary layer, on the contrary, shows a pronounced "history effect". The experimental boundary conditions will be chosen such that the outer region of the boundary layer is close to equilibrium.

Clauser 1954 [9] considered the problem of similarity in turbulent boundary layers. It had been known for a long time that the constant pressure boundary layer has both inner region similarity ("the law of the wall") and outer

region similarity ("velocity defect law"). It was Clauser's idea to extend the concept of outer similarity to also include turbulent boundary layers in adverse pressure gradients. He succeeded in experimentally creating adverse pressure gradient boundary layers with a defect similarity just as in the case of the zero pressure gradient boundary layer. Clauser called all boundary layers with outer similarity, "equilibrium boundary layers".

In this chapter it will be shown that one reasonably may hope to extend the equilibrium boundary layer concept to also include adverse pressure gradient boundary layers with transpiration. The boundary conditions necessary for such flows will be discussed in Section 2.2.

2.1 The Velocity Defect Law

The velocity defect i.e. $(u_{\infty}-u)$ normalized on the "friction velocity", u_{τ} , is seen to be a similarity variable for the outer region of the constant pressure boundary layer if plotted against y/δ : The outer $\approx 90\%$ of the boundary layer has a unique shape (independent of the Reynolds number) when plotted this way. Thus:

$$\frac{u_{\infty}^{-u}}{u_{\tau}} = F\left(\frac{y}{\delta}\right) , \qquad (2-1)$$

is the defect law for the zero pressure gradient boundary layer (δ is the boundary layer thickness).

Clauser defined a new boundary layer thickness, $\boldsymbol{\Delta}$, such that

$$\Delta = \delta \int_{0}^{1} \frac{u_{\infty} - u}{u_{\tau}} d\left(\frac{y}{\delta}\right)$$
 (2-2)

Note that the Clauser thickness, Δ , is a constant factor times δ when Eq. (2-1) is satisfied, i.e. when the boundary layer has outer region similarity. The defect law Eq. (2-1)

may therefore equivalently be written,

$$\frac{u_{\infty}-u}{u_{\tau}} = F(\frac{y}{\Delta}) \quad . \tag{2-la}$$

The advantage of using the Clauser thickness, Δ , rather than δ is that it is more precisely defined and may be determined with greater accuracy from experimental data.

Clauser now showed experimentally that a relationship of the type (2-la) exists also for certain adverse pressure gradients. The family of these pressure gradients will, following Clauser, be called "equilibrium pressure gradients"; the corresponding boundary layers are equilibrium boundary layers.

Clauser described the shape of the equilibrium velocity profiles by the shape factor,

$$G = \frac{1}{\Delta} \int_{0}^{1} \left(\frac{u_{\infty} - u}{u_{\tau}} \right)^{2} d\left(\frac{y}{\delta} \right) \qquad (2-3)$$

Thus each equilibrium flow corresponds to a certain value of the "Clauser shape factor", G . For example, the zero pressure gradient boundary layer corresponds to $G \simeq 7$. Adverse pressure gradient boundary layers have higher values of G.

Clauser reasoned that an equilibrium boundary layer would be obtained if the ratio of the wall shear force and the pressure force acting on the boundary layer is constant. More precisely this condition implies that $\beta = \frac{\delta_1}{\tau_0} \frac{dp}{dx} = \text{const.}$ Bradshaw [10] writes the von Karman momentum integral equation in the form,

$$\frac{\mathrm{d}}{\mathrm{d}x}(\delta_2 u_{\infty}^2) = \frac{\tau_0}{\rho}(1+\beta) \quad . \tag{2-4}$$

From Eq.(2-4) β can be interpreted as the ratio between the contributions of the pressure and the shear stress to the production of the momentum defect in the boundary layer. Bradshaw found that an adverse equilibrium pressure gradient corresponds to an experimentally decreasing free-stream velocity, $u_{\infty} \propto x^{m}$;m < 0. The basis for this finding is both Clauser's work and Bradshaw's own measurements.

In the present work the idea of an equilibrium boundary layer in an adverse pressure gradient will be extended to include flows with transpiration. If the transpiration velocity, v_0 , is not zero then the momentum integral equation (2-4) takes the form:

$$\frac{d}{dx}(\delta_2 u_{\infty}^2) = \frac{\tau_0}{\rho} (1 + \beta + B) , \qquad (2-5)$$

where $B = \rho v_0 u_0 / \tau_0$ will be called "the blowing parameter"; it is the ratio between the rate of change of x-momentum of the transpiration fluid and the wall shear force. B may also be interpreted as the ratio between the contributions of the transpiration fluid and the wall shear stress to the production of momentum defect in the boundary layer.

For flows with zero pressure gradient ($\beta = 0$) the results of Simpson [2] indicate that constant B flows also have G = constant, i.e. are equilibrium boundary layers. It is therefore reasonable to hope that keeping β and B constant will result in transpired adverse pressure gradient equilibrium boundary layers. The appropriate boundary conditions for such flows will be considered in the following section.

2.2 <u>Analysis of Boundary Conditions for Equilibrium</u> Boundary Layers

The boundary conditions which control the behavior of the boundary layer will be stated as $u_{\infty} = u_{\infty}(x)$ and

F = F(x), where $F = v_0/u_{\infty}$ is the "blowing fraction". A priori it cannot be known which boundary conditions will produce a constant β and B simultaneously. It turns out, however, that a few reasonable assumptions permit the prediction of the correct boundary conditions. Furthermore, the hope that a constant β and B corresponds to an equilibrium boundary layer (constant G) will be verified experimentally (see Chapter 7).

In the following analysis the basic assumption is that β and B are constant. The following additional assumptions will be made:

(a)
$$u_{\infty} = u_{1}x^{m}$$
,

where u_1 is a constant. In other words, it is assumed that the free-stream velocity variation that leads to an equilibrium boundary layer for B = 0 also produces a constant G boundary layer for $B \neq 0$ (assuming of course that the correct transpiration rate boundary condition is used).

(b)
$$(c_f/2)_o = aRe_{\delta_2}^{-b}$$

where $(c_f/2)_o$ is the friction coefficient for a nontranspired boundary layer. This assumption is of course always valid in practice for a small enough range of Reynolds numbers, Re_{δ} . For the present experiments it was found to remain valid² for the whole range of experimental Reynolds numbers.

,

(c)
$$\left(\frac{c_{f}}{c_{fo}}\right)_{m,Re_{\delta_{2}}} = f(B)$$
.

This equation expresses the assumption that the ratio of the friction coefficient for the transpired boundary layer to the friction coefficient for the corresponding (same m) non-transpired boundary layer at the same Reynolds number, is a unique function of the blowing parameter, B. This assumption was verified by Simpson [2] for the case of m = 0. It turns out to be equally valid for m < 0 although the function, f, may depend parametrically upon m.

From the definition of B one has $F = Bc_f/2$, or, on account of assumptions (b) and (c):

$$F = Bf(B)aRe_{\delta_2}^{-b} . \qquad (2-6)$$

An explicit expression for the dependence of the Reynolds number upon x will now be sought by writing the momentum integral Eq. (2-5) in the form,

$$\frac{v}{u_{\infty}^{2}} \frac{d}{dx} \left(u_{\infty} \operatorname{Re}_{\delta_{2}} \right) = (1 + \beta + \beta) c_{f}^{2} . \qquad (2-7)$$

By introducing assumptions (a), (b), and (c) into this equation one may obtain:

$$\frac{d}{dx} \operatorname{Re}_{\delta_{2}} + \operatorname{mx}^{-1} \operatorname{Re}_{\delta_{2}} - \operatorname{x}^{m} \frac{u_{1}}{v} \operatorname{af}(B)(1 + \beta + B) \operatorname{Re}_{\delta_{2}}^{-b} = 0 .$$
(2-8)

For $(\beta + B) = \text{constant}$ the solution is: $\operatorname{Re}_{\delta_{2}} = \left(\frac{u_{1}a(1+b)(1+\beta+B)f(B)}{\nu(2m + mb + 1)}\right)^{\frac{1}{1+b}} x^{\frac{1+m}{1+b}}$ (2-9)

Introducing this result into Eq. (2-6) one obtains the desired boundary condition for the blowing fraction:

$$F(x) \propto x^{m}F$$
, where $m_{F} = -(1 + m)\frac{b}{1 + b}$. (2-10)

In conclusion it is expected that the boundary conditions:

$$u_{\infty} \propto x^{m}$$

(2-11)

 $F \propto x^{m}F; m_{F} = -(1 + m)\frac{b}{1 + b}$

will lead to boundary layers with constant β and B. These flows are then hoped to be equilibrium (constant G) boundary layers.

2.3 Nominal Boundary Conditions

Three different velocity distributions have been established experimentally in the present work. They may all be represented by:

$$u_{\infty} = u_{1} \left(\frac{x - x_{0}}{x_{1} - x_{0}} \right)^{m}$$
, where $u_{1} = \sqrt{\frac{2p_{d_{1}}}{\rho}}$. (2-12)

In this equation, p_{d_1} , is a reference dynamic pressure, whereas ρ is the actual air density during a given experiment (run). x_o is the (virtual) origin of the turbulent boundary layer. The three experimental velocity distributions (nominal) are determined by the parameters given in the table below.

m	u _l [ft/s]	x _o [in]	x _l [in]
0 -0.15	31.1 29.2	- -3	- 4
-0.20	29.2	-2	4

Table 2-1 Experimental velocity distributions (nominal)

The parameters in Table 2-1 are defined by Eq. (2-12). The values of u_1 are only approximate since ρ may vary slightly from run to run. The values of x_0 obtained by upstream extrapolation of δ_2 (see Section 6.5) may vary <u>+1</u> inch from run to run; nevertheless the values indicated in Table 2-1 were always used in Eq. (2-12).

The transpiration boundary condition is expressed as

$$F = F_{1} \left(\frac{x - x_{0}}{x_{1} - x_{0}} \right)^{m} F , \qquad (2-13)$$

where F_1 is a reference value obtained at $x = x_1$. The boundary conditions which have been established in the present work are summarized in Table 2-2 below.

m	Fl	^m F
0	0 0.001 0.002 0.00375 0.008	- 0
-0.15	0 +0.001 +0.002 +0.004	- 0 and -0.17
-0.20	{ 0 -0.002	 -0.16

Table 2-2 Experimental transpiration boundary conditions (nominal)

The non-zero values of m_F satisfy the condition $m_F = -(1 + m)b/(1 + b)$ and thus correspond to constant B boundary layers.

As explained in Appendix B, the nominal boundary conditions (2-12) and (2-13) cannot be satisfied exactly. In the case of the velocity distribution Eq. (2-12) is not satisfied for x < 10 inches (except when m = 0) because of design limitations of the apparatus. The transpiration boundary condition (2-13) is only satisfied exactly at the center of each of the 24 porous plates. The continuous distribution of the blowing fraction of F expressed by Eq. (2-13) is approximated by 24 constant values of the blowing velocity, V_0 .

CHAPTER 3

EXPERIMENTAL APPARATUS, INSTRUMENTATION AND PROCEDURE

The basic wind tunnel, the "Stanford Heat and Mass Transfer Apparatus" has been very adequately described by previous experimenters, see in particular Ref. [1]. The present chapter will therefore only give a very short description of the basic experimental apparatus. The heat transfer characteristics of the apparatus will not be treated at all.

The only major modification of the apparatus was a redesigning of the test section; it was carried out to permit the present work on adverse pressure gradients. The new test section has a constant cross section and features 23 adjustable slots in the top wall. The slots permit control of the pressure gradient and also prevent boundary layer separation on the top wall.

Two different hot-wire probes were designed and built: a horizontal hot-wire probe, and a rotatable probe with a single slant wire. Detailed descriptions of these instruments will be given below.

3.1 Main Air Systems

The apparatus is essentially an open-end wind tunnel. It features two independent air systems which come together in the test section: The Main Air System and the Transpiration Air System.

The flow path of the main air is as follows: (a) <u>Inlet</u> <u>Air Filter</u>: The filter is made of 0.7 micron retention felttype filter material, (b) <u>Main Air Blower</u>: The centrifugal blower has a 2000 scfm capacity at 30 inches of water; it is powered by a 7.5 HP electrical motor, (c) <u>Heat Exchanger</u>: The heat exchanger is water cooled and it is effective enough that the air leaves it essentially at the temperature of the

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cooling water. The cooling water is taken from the building water supply. However, in order to remove unacceptable fluctuations in the temperature of the water which occur at certain hours of the day the water passes through two large tanks in series before entering the heat exchanger. Just upstream and downstream of the heat exchanger the air passes through 1-1/2 inch thick honeycomb with 3/16 inch cell size. (d) In the constant 23 x 23 inch cross section after the heat exchanger the air passes through six 32 x 32 mesh stainless steel screens. (e) The nozzle, which is 36 inches long, provides an almost two-dimensional contraction to a 6 x 20 inch cross section. The nozzle is symmetric with a sine function as basic shape. However, it was found that a small separation occurred in the upstream end of the nozzle. This disturbance was effectively removed by modifying the basic shape of the nozzle to incorporate an initial contracting angle of 5° just downstream of the last screen. Very close to the exit the nozzle features a 3/16 inch wide slot in the bottom wall and the side walls. Because the tunnel is operated with a static pressure slightly above ambient this slot effectively removes the bottom and side wall boundary layers. This boundary layer suction slot was initially incorporated in an effort to eliminate a non-uniformity in the lateral distribution of the boundary layer thickness. It was later found, however, that the non-uniformity was due to a small crease in the last screen and was unrelated to the nozzle boundary layers. The boundary layer suction was never-the-less retained for reasons related to the heat transfer research which was carried out in parallel with the present hydrodynamic investigation. (f) A 6 inch long transition section between the nozzle and the test section contains a 1/32 inch high, 1/4 inch wide boundary layer trip on the bottom wall, 6 inches upstream of the test section. There are no trips on the side walls or on the top wall.

3.2 Test Section

The test section is an 8 ft. long straight duct with a rectangular cross section (20 inches wide and 6 inches high). The <u>test plate</u> (the floor of the test section) is composed of 24 porous plates each 18 inches wide and 4 inches in the direction of the main flow. Each porous plate is connected to the transpiration air system which permits control and measurement of the flow rate. The porous plates are 0.25 inches thick and made of sintered bronze material composed of particles with diameters between 0.0023 and 0.0007 inches. The porosity is approximately 40% and the flow rate uniformity is within $\pm6\%$ in the center 6 inch span. The flow resistance offered by the plates is large enough that the uniformity of the transpiration velocity is not significantly affected by the pressure gradients in the main flow.

The side walls of the test section are made of 1/2 inch plexiglass. One of the side walls has 0.040 inch diameter square edged static pressure tap holes drilled with a 2 inch pitch 1 inch above the test plate. These static pressure taps were used in connection with a Kiel probe in the free-stream, for the measurement of the free-stream dynamic pressure distribution. Every 12 inches in the flow direction four additional pressure taps are provided 2, 3, 4 and 5 inches above the test plate in both side walls. These pressure taps were used for comparing the static pressures at the two side walls and for check of the vertical pressure gradient in the boundary layer. It was found that the difference in static pressures between the two sides of the tunnel was always smaller than 0.002 inches H_2O . No significant pressure differences between static pressures at various heights above the test plate could be detected at any streamwise position for any of the flows.

The upper wall of the test section consists of 24, 5/16 inch thick, 3.5 inches wide plates (material: tooling

aluminum). Each of the 23, 0.5 inches wide spaces between the plate is partially covered with a movable 1.25 x 0.25 inch aluminum bar fastened on top of the upstream plate and a 0.75 x 0.25 bar fixed on top of the downstream plate. See Fig. 3-1 for a longitudinal cross section of the test section. Figure 3-2 is a photograph of the test section; it shows in particular the arrangement of the top plates. The arrangement just described provides 23 slots extending across the tunnel with widths adjustable to between 0 and 0.4 inches. The slot widths can be set to an accuracy of 0.001 inches by means of a simple feeler gauge. Since the tunnel is operated with a static pressure in the test section slightly above ambient (0.4 - 1.1 inches H_2O), the adjustable slots provide a means of controlling the velocity distribution (i.e. pressure gradient) at the test plate. (See Appendix B for details)

The length of the slots (in the lateral direction of the tunnel) may be restricted by movable "fingers". These permit the length of the slots to be equal to or less than the width of the tunnel (20 inches). This feature was incorporated because Clauser [9] reported a lateral divergence in the bottom wall boundary layer of a wind tunnel where an adverse pressure gradient was generated by removal of air through slots in the top wall. Clauser found that this undesired three-dimensionality could be eliminated by restricting the length of the suction slots.

Tests were carried out in the present tunnel both with the fingers flush with the sidewalls and restricting the slot lengths up to 0.5 inches on each side. No significant effect on the rate of growth, $d\delta_2/dx$, of the test plate boundary layer was found. The effect reported by Clauser could therefore not be detected. This is possibly because the present tunnel has a greater width to height ratio (20/6) than Clauser's tunnel (3/4). For all the runs reported the fingers were set to restrict the length of the slots by approximately



Fig. 3-1 Longitudinal cross section of the tunnel test section



Fig. 3-2 Photograph of test section with traversing mechanism in position

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the displacement thickness of the side wall boundary layers in zero pressure gradient.

Each of the 24 plates that form the top wall has a 3/4 inch <u>access hole</u> at the centerline of the test section. Every third plate has 8 additional 3/4 inch access holes at 2 inch intervals in the transverse direction. When not in use the access holes are closed with plugs which are flush with the inside of the top plates.

The test section is at the downstream provided with a 14 inch long <u>extension</u> with constant cross section. The extension is terminated with vertically movable gate. This <u>gate valve</u> permits adjustment of the pressure in the test section. The main function of the extension is to assure that the disturbing effect of the exit gate valve is sufficiently far removed from the test section.

3.3 Transpiration Air System

The flow rate of transpiration air is controlled and metered individually for each of the 24 porous plates. There are two rotameters for each plate providing a metering capability from 0.5 to 18 scfm. The transpiration air is supplied by a <u>transpiration air blower</u>. In the blowing mode the transpiration air is filtered in a 0.7 micron retention felt-type filter.

3.4 Procedure for Setting-up a New Run

The setting-up of a new run to a specified free-stream velocity and transpiration boundary condition is an iterative procedure: For a desired velocity distribution, the computer program, SLOT (see Appendix B) supplies the desired dynamic pressure at x = 2 inches. The total and static pressure at this position (pressure tap #1) are then held constant during the course of the iterations. (This can be done by means of the control provided by the main flow value and

the exit gate valve). The rotameter readings (in case transpiration is used) and the slot widths are reset at each iterative cycle. The computer program mentioned above is designed to aid in the iterative procedure. On the basis of the measured distribution of dynamic pressures, the total pressure and the rotameter settings it computes a correction to the slot widths and the rotameter settings which should result in attainment of the desired boundary conditions. In very few cases have more than two resettings been necessary. As a practical matter the iterations were discontinued when the SLOT predicted changes in slot widths of 0.001 inches or less. This corresponds in practice to an error in the velocity gradient of less than $\simeq 3\%$.

3.5 Pressure Measurements

All pressures were measured with a STATHAM strain gauge transducer, type PM97 with a maximum reading of 1.4 inches H_2O . The Wheatstone bridge for the transducers was powered by stable power supply that assured negligible drift. The transducer was calibrated at regular intervals against a MERIAM micro manometer model 34FB2; the calibration curve was found to be linear and stable to ± 0.001 inches H_2O . The electrical signal was read by a VIDAR 5206 D-DAS Data Acquisition System employing a DIGITAL PDP 8/L computer. The average of 50 measurements taken during 6 seconds was used.

3.6 Velocity Measurements

The <u>free-stream</u> velocity distribution was computed from the dynamic pressure distribution using Bernoulli's equation. However, all <u>velocity profiles</u> and <u>turbulence profiles</u> were obtained by linearized constant temperature hot-wire anemometry. The reason that pitot tubes (which are more convenient to use) were discarded is that serious discrepancies were found in turbulent shear flow between tubes with rounded
and flattened mouths. As an example Fig. 3-3 shows experimental mean velocity profiles obtained by a round mouth (0.020 inches 0.D.) and a flattened mouth pitot tube (external height = 0.015, width = 0.032 inches) in an adverse pressure gradient, non-transpired boundary layer. The Young and Maas [11] shear correction was applied for both pitot probes. The correction amounts to a displacement away from the wall (for all the profile points) of $\Delta y = 0.15D +$ 0.08d, where D is outer diameter and d the inner diameter of the mouth of the pitot tube. For the flattened probe D and d are taken to be external and internal probe heights respectively. It is obvious from Fig. 3-3 that the two pitot probes disagree greatly in the inner regions of the boundary layer. The disagreement would have been even greater without the shear correction; however, no correction amounting to a simple constant displacement, Δy , of the effective probe center would be able to bring the results from the two probes into agreement. The effect displayed on Fig. 3-3 was found very consistently both for the zero and adverse pressure gradient boundary layers for which the probes were compared. Also shown in the figure is the same velocity profile as measured with a hot-wire.

3.6.1 Hot-Wire Instrumentation

The hot-wire instrumentation consisted of a DISA 55D05 Constant Temperature Anemometer in connection with a DISA 55D15 Linearizer. For mean velocity measurements the linearizer output was read by the VIDAR Data Acquisition System effectively using a 6 second average. The mean square of the linearizer output was obtained from a THERMO-SYSTEMS RMS Voltmeter Model 1060 with the time constant set at 10 sec. (It was found that a 3 second time constant gave slightly low readings for the very thick boundary layers). The mean square output from the RMS meter was integrated



Fig. 3-3 Comparison of probes. Velocity profile in an adverse pressure gradient

over 200 secs. by a Hewlett-Packard Integrating Digital Voltmeter, Model 2401C, in connection with an external quartz crystal oscillator. The very long integration time was necessary to reduce the random scatter of the mean square values to below 1%.

Two different hot-wire probes were used:

(a) A <u>horizontal hot-wire</u> was used for the measurement of mean velocities and of u'^2 . The probe features a 0.0002 inches diameter, 0.080 inches long platinum wire soft soldered to the prongs of a DISA 55F01 probe element. The cold resistance of the wire is about 8Ω ; the operating resistance was 13Ω , corresponding to an overheat ratio of ≈ 1.6 . The hot-wire probe is shown in Fig. 3-4.



Fig. 3-4 Horizontal Hot-Wire Probe

Because of the flexibility of the probe stem the "wall stop" effectively prevents the wire from accidentally being damaged by the wall. The wire distance from the wall when the wall stop just touches is nominally 0.005 inches (as measured by an optical comparator). In practice the probe stem may deviate up to $\approx 0.1\%$ from verticality with a corresponding influence on the wire distance from the wall of ≈ 0.001 inches. It appears, however, that for a given xposition (i.e. a given access hole) the wall distance of the wire is reproducible to a greater accuracy; this conclusion is based on repeated evaluations of the wall shear stress using the first data point for the computation of the wall

gradient, $\left(\frac{\mathrm{d}u}{\mathrm{d}y}\right)_{v=0}$

Individual wall distances for the nine x-positions used in the present tests have been computed by the sublayer method using the accepted zero pressure gradient friction coefficient correlation. The wall distances used for the data reduction are: $y_0(2) = 0.0043$, $y_0(34) = 0.0056$ and $y_0(90) = 0.0068$ inches; for all other positions, $y_0 =$ 0.0050 inches. These numbers may give the illusion of greater accuracy than is actually obtained; ± 0.001 inches is a reasonable estimate of the uncertainty of the wire distance from the wall.

(b) A rotatable 45° slant hot-wire was used for the measurement of the Reynolds stress, -u'v' and (in connection with the horizontal wire) of v'^2 and w'^2 . The rotatable probe features a DISA 55F02 hot-wire element. The wire has a total length of 3 mm with a 1.25 mm active center portion. The ends of the wire are gold plated to reduce prong interference at the central sensing part of the wire. The wire is made of tungsten and has a diameter of 5 μ m. The cold resistance is $\simeq 4.8\Omega$ and it was operated at 7.5 Ω giving an overheat ratio of $\simeq 1.6$.

The choice of a single, rotatable, slant wire over xwires was made for three reasons: (1) Any uncertainty about possible interaction between two wires and 4 prongs is eliminated. The directional sensitivity of the single hot-

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wire of the type used is well documented, see for example [12]. (2) The need for two anemometers and two linearizers together with a critical matching of the two hot-wire calibrations is avoided. (3) There is only one wire to break! The rotatable hot-wire probe is shown in Fig. 3-5. A cable drive permits the probe to be rotated while in position in



Fig. 3-5 Rotatable Hot-Wire Probe

the tunnel. The probe spindle incorporates a "lock-drum" which features six radially drilled holes spaced at 60° . The spring loaded "lock pin" which fits into the holes in the lock drum may be lifted by means of a lever located on top of the traversing mechanism. The arrangement permits turning of the probe to any of the six angular positions, $\phi_n = (n - 1)\frac{\pi}{6}$; n = 1, 2...6, while operating in the tunnel.

The "wall stop" is an interchangeable wire of known diameter, D, wrapped around the spindle. The distance, $y_{\rm D}$, (see Fig. 3-5) may be measured by the micrometer drive

incorporated in the traversing mechanism. The knowledge of D and y_2 permits calculation of the position of the center of the hot-wire, y_0 , when the wall stop just touches the wall.

Ideally the hot-wire spindle should be aligned with the "mean flow vector" (see Appendix A on hot-wire anemometry). This alignment has been accomplished to within $\pm 0.25^{\circ}$ by bending the probe stem according to transpiration rate and pressure gradient. The direction of the mean flow vector was inferred from the mean velocity profiles. Figure 3-6 is a photograph of the rotatable probe in operating position in the test section.

3.7 Traversing Mechanisms

Figure 3-7 is a photograph of the traversing mechanism for the rotatable probe. The traversing mechanism for the horizontal probe is identical except that it does not have the cable drive and the spindle lock lever.

The traversing mechanisms fit into the access holes in the top plates and are locked in place. The accuracy of the lateral probe alignment is $\simeq 0.5^{\circ}$.

The probe is traversed manually by starting from the position where the probe wall stop just touches the wall. The smallest division on the micrometers is 0.001 inches.

3.8 Calibration of Hot-Wires

The hot-wires were calibrated in the test section outside of the boundary layer. The dynamic pressure at the position of the wire was measured as the difference between the total pressure measured by a 1/4 inch pitot tube and the static pressure at a wall tap. The minimum calibration velocity was $\simeq 2.4$ ft/s. The corresponding Reynolds number based on the pitot tube 0.D. is $\simeq 340$; according to



Fig. 3-6 Photograph of rotatable hot-wire probe in operating condition



Fig. 3-7 Photograph of rotatable hot-wire traversing mechanism in operating position

McMillan [13], no correction is necessary at this Reynolds number. The maximum temperature variation during a calibration was $+0.25^{\circ}F$.

The calibration curves were obtained by least square fitting measured values of velocity, U, and linearizer output, E. For the horizontal wire a 3rd order polynomial was used.

For the slant wire a straight line was used i.e.

$$U = c_1 + c_2 E$$
 . (3-1)

The calibration would be repeated with a slightly different value of V'_{0} (see the DISA manual for the 55Dl5 linearizer) until the intercept c_{1} in Eq. 3-1 assumed a value below 0.05 ft/s. The reason that special care was taken in obtaining a "straight line through zero" as a calibration curve for the slant wire is that proportionality between U and E is assumed in the data reduction for measurements with this wire (see Section 6.3).

The RMS deviation of the experimental velocities from the calibration curves was always less than 0.02 ft/s. A typical calibration curve together with experimental points is shown in Fig. 3-8.

The calibration of both wires was repeated several times during the course of the experiments. No significant drift was found. All the slant wire results were obtained using the same wire. Two different horizontal wires were used.

3.9 Qualifications of the Apparatus

Surveys in the potential core in the test section have shown that the lateral variation of the free-stream velocity was less than 0.5% at all streamwise locations for all three pressure gradients. The experimental free-stream velocities never deviated more than 0.5% from the desired "practical"

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velocity distribution (see Appendix B for details). For the two adverse pressure gradients the nominal velocity distribution (Eq. 2-12) and the desired "practical" distribution are very nearly identical for x > 10 inches. The temperature drift in the tunnel was less than $1^{\circ}F$ during any run.

The zero pressure gradient boundary layer provides a good test case for the apparatus and the hot-wire equipment. Figure 3-9 shows the friction coefficients as measured by the "shear stress" method, a method that requires measurement of the Reynolds stress -u'v' (see Section 4.1.2); also shown is the "best fit", $c_f/2 = 0.120 \operatorname{Re}_{\delta_2}^{-0.25}$, of the measured friction coefficients. The friction coefficients obtained by the two-dimensional momentum integral equation (Eq. 4-5 with 3D = 0) can be seen to lie slightly below the "best fit"; the difference is probably due to a slight lateral divergence of the stream lines in the boundary layer. Discrepancies of this order of magnitude (i.e. $\Delta c_{f} \approx 0.0001$) were found for most of the experimental flows, the twodimensional momentum integral equation usually giving the lowest friction coefficients. In Fig. 3-9 the skin friction coefficient recommended by Coles [16] is displayed for comparison. The measured skin friction coefficients are slightly lower than the values of Coles.

The uniformity of the boundary layer in the lateral direction was checked by measuring mean velocity profiles at the nine transverse positions, z = -8, -6, $\dots 8$ inches both for zero and adverse pressure gradients. Figure 3-10 shows as an example five mean velocity profiles measured at x = 82 inches in an adverse pressure gradient (m = -0.15). The profiles for $z \leq 4$ inches appear to be identical; for $z \geq 6$ inches the effect of the side wall boundary layer becomes noticeable. The same conclusion may be drawn from Fig. 3-11 in which the momentum thickness, δ_2 , is plotted versus the transverse coordinate, z. It may be seen that





Fig. 3-10 Comparison of measured velocity profiles at five different transverse locations but at the same streamwise position



Fig. 3-11 Lateral variation of the momentum thickness

 δ_2 varies less than 3% over the central 8 inches of the span. Further upstream and for zero pressure gradient flows the width of the uniform central span is even greater. This degree of uniformity was only achieved after a rather extensive "debugging" of the components upstream of the test section. The main reason for the initial non-uniformity was a small crease in the last screen. It was found that the quality of the screens is of the greatest importance (this has also been reported by Bradshaw [15] who did a careful study of wind tunnel screens). The crease responsible for the non-uniformity was barely noticeable!

The mean velocity profiles fit the law-of-the-wall, $u^{+} = \frac{1}{0.41} \ln y^{+} + 5.0$, with constants from Coles [14] (see for example Fig. 7-12). The above law-of-the-wall is applicable for boundary layers on <u>smooth</u> surfaces; the fact that it fits the present velocity profiles is a sensitive test of the aerodynamic smoothness of the porous test plate (at least for zero pressure gradient).

The "strength of the wake" (Coles [16]) i.e. the maximum deviation of u⁺ from the law-of-the-wall, Eq. 3-2, in the outer region is shown in Fig. 3-12 as a function of the Reynolds number, $\operatorname{Re}_{\delta_2}$. Also shown in the figure is Coles "normal" strength of the wake. The profiles appear to be close to normal in the sense of Coles.

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Measured strength of the wake compared to Coles [16] "normal" strength (k = 0.41)Fig. 3-12

CHAPTER 4

MEASUREMENT OF WALL SHEAR STRESS

For a given Reynolds number, $\operatorname{Re}_{\delta_2}$, boundary layers in adverse pressure gradients have lower friction coefficients than constant pressure or favorable pressure gradient boundary layers. Blowing similarly lowers the friction coefficient. In the present work very low values of friction coefficients must therefore be measured.

The method used to measure the wall shear stress must be fundamental because the flow regimes to be explored are unknown a priori. Methods which depend upon similarity in the inner region of the boundary layer cannot be used for the flows investigated in this work.

A direct measurement of the wall shear force is, in practice, impossible to carry out for flows on a porous wall. (It is a very difficult measurement even on an impermeable wall with no pressure gradient). The wall shear stress must therefore be inferred from measurements carried out in the flow and by invoking fundamental principles.

4.1 The Shear Stress Equation

For the incompressible boundary layer the time averaged x-momentum and continuity equations may be written:

$$\frac{\partial u^2}{\partial x} + \frac{\partial (uv)}{\partial y} + \frac{\partial (uw)}{\partial z} = u_{\infty} \frac{du_{\infty}}{dx} + \frac{1}{\rho} \frac{\partial \tau}{\partial y} , \qquad (4-1)$$

$$\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z} = 0 .$$

Note that the shear stress, τ , is understood to be equal to the sum of a viscous contribution, $\mu \frac{\partial u}{\partial y}$, and a Reynolds stress, $-\rho \overline{u'v'}$, thus:

$$\tau(\mathbf{y}) = \mu \frac{\partial u}{\partial \mathbf{y}} - \rho \overline{u' v'} \quad . \tag{4-2}$$

The normal Reynolds stress term, $-\frac{\partial}{\partial x}(\overline{u'}^2)$, which belongs on the right hand side of Eq. (4-1) has been neglected.

Integrating Eqs. (4-1) from y = 0 to y = y leads to an equation for the shear stress, τ :

$$c_{f}/2 = \frac{\tau(y)}{\rho u_{\infty}^{2}} + \frac{y}{u_{\infty}} \frac{du_{\infty}}{dx} - F + \frac{1}{u_{\infty}^{2}} \left(u \int_{0}^{y} \frac{\partial u}{\partial x} dy - 2 \int_{0}^{y} u \frac{\partial u}{\partial x} dy \right) + 3D(y)$$

$$(4-3)$$

where

$$3D(y) = \frac{1}{u_{\infty}^{2}} \left(\int_{0}^{y} u \frac{\partial w}{\partial z} dy - u \int_{0}^{y} \frac{\partial w}{\partial z} dy \right) \text{ (for } w = 0 \text{)} .$$

$$(4-4)$$

In this equation $c_f/2 = \tau_o/\rho u_{\infty}^2$ is the friction coefficient. The term, 3D(y), is non-zero if the boundary layer flow deviates from the ideal of two-dimensionality. It can reasonably be assumed that 3D(y) is an increasing function of y and that it is very small compared to the two integrals involving only u.

4.1.1 The Momentum Integral Equation

If y in the shear stress equation (4-3) is taken to be equal to the boundary layer thickness then τ = 0 , and the equation may be written

$$c_{f}/2 = \frac{d\delta_{2}}{dx} + \delta_{2}(2 + H) \frac{1}{u_{\infty}} \frac{du_{\infty}}{dx} - F + 3D(\delta)$$
 (4-5)

This is the von Karman momentum integral equation with a correction, $3D(\delta)$, for a deviation from the ideal of two-dimensionality.

There are two reasons why it is difficult to obtain reliable results from Eq. (4-5) for small values of the friction coefficient:

- (a) In adverse pressure gradients, for boundary layers with blowing, du_{∞}/dx and/or F are negative and $c_f/2$ must be computed as the small difference between large numbers.
- (b) The computation of $3D(\delta)$ from Eq. (4-4) would require the knowledge of $\partial w(y)/dz$, but the direct measurement of this quantity was found to be impractical. The term, $3D(\delta)$ in Eq. (4-3) is a priori unknown.

Because of the above reasons the momentum integral Eq. (4-5) was not in any case relied upon for the determination of the friction coefficient correlations (Section 6.1).

However, friction coefficients were computed from Eq. (4-5) with $3D(\delta)$ set equal to zero for all profiles for 34 inches $\leq x \leq 82$ inches and compared to the adopted correlations. It was found that the discrepancy was usually of the order of magnitude $\Delta c_{f}/2 = 0.0001$. The momentum equation results were in most cases the lowest, but not always. Therefore in most cases it may be assumed that $3D(\delta) > 0$ indicating positive average values of $\frac{\partial w}{\partial z}$ i.e. a slight divergence of the streamlines.

4.1.2 The Shear Stress Method

The friction coefficient, $c_f/2$, can be determined from Eq. (4-3) using a measured shear stress $\tau(y)$ evaluated according to Eq. (4-2). The viscous contribution was obtained by differentiation of the mean velocity profile (see Section 5.2 for details). The Reynolds stress was measured using a slant hot-wire (see Section 5.3).

The shear stress $\tau(y)$ was measured in the fully turbulent region of the boundary layer, but as close to the wall as the Reynolds stress measuring hot-wire probe would permit. By performing the measurement of $\tau(y)$ at a small y the accuracy of the terms on the right hand side of Eq. (4-3) becomes of lesser importance. In particular the two integrals containing $\partial u/\partial x$ become very small (in some cases negligible). The same holds to an even greater extent for the 3D-term which can be considered truly vanishing for small y. Figures 6-35 through 6-46 show examples of the relative magnitudes of the various terms in Eq. (4-3). The Reynolds stress measured closest to the wall (at $y \approx .1$ inches) has been used for the determination of the friction coefficient.

All measured wall shear stresses in the present work (with the only exception being those for Runs 112871-1, 102171-1 and 092271-5) were determined by the method described in this section. The reason that a different method had to be used for the above mentioned three runs is a difficulty in measuring the Reynolds stress accurately enough for runs with very low friction coefficients (see Appendix A, Section 5).

CHAPTER 5

DATA REDUCTION

5.1 Mean Velocity Profiles and $\frac{1}{u'^2}$

The distance from the wall, y, was obtained directly from the micrometer readings, the wall having been "found" as explained in Section 3.6.1.

The mean velocity, u , was computed as

$$u = c_1 + c_2 e + c_3 e^2$$
, (5-1)

where e is the time averaged output from the linearizer and the coefficients are known from the hot-wire calibration (see Section 3.8 for details).

The turbulence intensity u'^2/u_{∞}^2 was computed by

$$\frac{\overline{u'^2}}{u_{\infty}^2} = \frac{c_2 + 2c_3 \overline{e'^2}}{c_1 + c_2 e_{\infty}^2 + c_3 e_{\infty}^3} \quad . \tag{5-2}$$

5.2 Viscous Shear Stress

The normalized viscous shear stress is

$$\frac{\tau_{\nu}}{\rho u_{\infty}^2} = \frac{\nu}{u_{\infty}^2} \frac{du}{dy} \qquad (5-3)$$

The derivative, $\frac{du}{dy}$, was evaluated by least-square fitting seven profile points by a polynomial in ℓny ,

$$u = a_1 + a_2 lny + a_3 (lny)^2$$
,

and then computing $\frac{du}{dy}$ at the center point. For the first and last three profile points the fit of the seven first and last points respectively were used.

5.3 $-\overline{u'v'}$, $\overline{v'}^2$ and $\overline{w'}^2$

The calibration curve for the rotatable hot-wire probe is (see Section 3.8):

$$\mathbf{U} = \mathbf{c}_{\mathbf{p}} \mathbf{E} \tag{5-5}$$

The indicated velocity, U_i , defined by Eq. (A-1), is related to U according to Eq. (A-5). In terms of the indicated velocity the calibration curve thus becomes, $U_i = Ac_2E$, where A = 0.502 for a hot-wire with $\phi = 45^{\circ}$ and $k_1 = 0.2$. The mean square of the fluctuating part of the indicated velocity, u_i^{2} , is therefore related to the mean square of the linearizer output, e'^2 , as

$$\overline{u_1'^2} = Ac_2 e'^2$$
 (5-6)

The normalized Reynolds stress, $-\overline{u'v'}/u_{\infty}^2$ was evaluated from either one of Eqs. (A-10) or (A-12). In Eq. (A-10) the Reynolds stress is computed from measurements performed at <u>two</u> angular positions of the hot-wire ($\theta_1 = 0$ and $\theta_2 = \pi$). All the friction coefficients obtained from the "shear stress method" (see Section 4.12) are obtained from Reynolds stresses computed from this equation.

The Reynolds stress profiles (one for each run, taken at x = 70 inches) were all computed from Eq. (A-12) which require measurements at <u>six</u> angular positions of the hotwire ($\theta_n = (n - 1)\frac{\pi}{6}$; n = 1, 2..6). As discussed in Section (A-6) the results from Eqs. (A-10) and (A-12) are equivalent to the order of the triple correlations of the turbulent fluctuations. In practice the two equations give identical values of the Reynolds stress except for Runs 112871-1, 102171-1 and 092271-5. For these three runs, which all have very low values of the friction coefficient, the measured Reynolds stresses were <u>not</u> used for the evaluation of friction coefficients. The normalized turbulent fluctuations, $\overline{v'}^2/u_{\infty}^2$ and $\overline{w'}^2/u_{\infty}^2$ were evaluated using Eq. (A-13) combined with Eq. (5-6).

5.4 The Free-Stream Velocity

The free-stream velocity, u_∞ , was deduced from dy-namic pressures, $P_{\rm d}$, measured at the position of the 46 static pressure taps in the side wall. Thus the free-stream velocity is computed as

$$u_{\infty} = \sqrt{\frac{2P_d}{\rho}}$$
,

where ρ is the air density obtained from the measured values of pressure, temperature and humidity in conjunction with saturation data from Ref. [17].

The measured velocities were curve-fit and du_{∞}/dx was obtained by differentiation of the analytical fit (see Appendix B for details). The RMS - difference between measured values of the free-stream velocity and the fit was about 0.03 ft/s for most runs.

5.5 Virtual Origin and $d\delta_{\rho}/dx$

The experimental values of δ_2 for 10 inches $\leq x \leq 90$ inches were fitted by an equation of the form:

$$\delta_{2,\text{fit}} = \alpha (x - x_0)^{\beta} \quad . \tag{5-8}$$

The constants α , β , and x_0 were determined by the method of least squares. The "virtual origin" of the boundary layer was taken to be at $x = x_0$.

The derivative, $d\delta_2/dx$, was taken to be equal to the derivative of $\delta_{2,fit}$ from Eq. (5-8).

5.6 Correlation of Friction Coefficients

The friction coefficients, $(c_f/2)_o$, for the three boundary layers <u>without transpiration</u> (corresponding to m = 0, -0.15 and -0.20) have been fitted by equations of the form:

$$(c_{f}/2)_{o} = aRe_{\delta_{2}}^{-b}$$
 (5-9)

All the friction coefficients for boundary layers with <u>transpiration</u> belonging to each of the three pressure gradients were correlated with an equation of the type:

$$c_{f}/2 = (c_{f}/2)_{0}[1 + a_{1}B_{0} + a_{2}B_{0}^{2} + a_{3}B_{0}^{3}],$$
 (5-10)

where

$$B_{o} = F/(c_{f}/2)_{o}$$

and $(c_f/2)_o$ is determined from Eq. (5-9). The fitted values of the friction coefficient, as determined by the three equations of type (5-10) were then used for the data reduction (i.e. for the computation of y^+ , u^+ , v_o^+ etc.).

It should again be stressed that the friction coefficients used to evaluate the coefficients for Eqs. (5-9) and (5-10) were all obtained from the "shear stress method" except in the case of Runs 112871-1, 102171-1 and 092271-5 for which $c_f/2$ was evaluated from the "generalized law of the wall", Eq. (7-25).

5.7 Shear Stress Profiles

The shear stress profiles may be computed from Eq. (4-3). However, because of the uncertainty in $\frac{\partial u}{\partial x}$, and because of the unknown magnitude of the left out 3D term, the equation usually predicts a non-zero shear stress at the outer edge of the boundary layer.

The derivative $\partial u/\partial x$ in Eq. (4-3) was evaluated at the measured profile points of a given profile by using interpolated values for u (at the same y) at the first upstream and downstream profiles assuming a linear variation of u with x. The integrations were performed by using the trapezoidal rule.

It was assumed that the major reason for the failure of Eq. (4-3) to satisfy the outer boundary condition, $\tau(\delta) = 0$, was experimental uncertainty of $\frac{\partial u}{\partial x}$. By further assuming that the percentage error in $\frac{\partial u}{\partial x}$ is independent of y, the shear stress profiles may be corrected by multiplying the bracketed term in Eq. (4-3) containing the two integrals, by a factor, α , which is adjusted such that $\tau(\delta) = 0$. The computing equation for the shear stress then becomes:

$$\frac{\tau(\mathbf{y})}{\rho u_{\infty}^{2}} = c_{\mathbf{f}}^{2} - \frac{\mathbf{y}}{u_{\infty}} \frac{\mathrm{d}u_{\infty}}{\mathrm{d}x} - \frac{\alpha}{u_{\infty}^{2}} \left(u \int_{0}^{y} \frac{\mathrm{d}u}{\mathrm{d}x} \, \mathrm{d}y - 2 \int_{0}^{y} u \frac{\mathrm{d}u}{\mathrm{d}x} \, \mathrm{d}y \right),$$
(5-11)

where

$$\alpha = \frac{c_{f}/2 - \frac{y}{u_{\infty}} \frac{du_{\infty}}{dx}}{\left(u \int_{0}^{\delta} \frac{\partial u}{\partial x} dy - 2 \int_{0}^{\delta} u \frac{\partial u}{\partial x} dy\right) / u_{\infty}^{2}}$$

If profiles at x = 10 inches are excluded $\partial u/\partial x$ has in general been corrected by less than $\pm 6\%$. Furthermore, the correction never has the same sign for all profiles belonging to a given run; this seems to indicate that experimental uncertainty on $\partial u/\partial x$ (rather than effects of threedimensionality) is indeed largely responsible for the necessity to correct the shear stress profiles.

It should be noted that the influence of the corrective factor, α , on the shear stress profiles computed from Eq. (5-11) is extremely small close to the wall. For example only in a few cases does the correction influence the evaluation of friction coefficients by the "shear stress" method.

CHAPTER 6

ANALYSIS AND DISCUSSION OF EXPERIMENTAL RESULTS

In the present chapter certain aspects of these results will be discussed in detail. In particular correlations for the friction coefficients and for the Clauser shape factor, G , (defined in Section 2.2), will be given. It will be shown that equilibrium boundary layers are in fact obtained when the acceleration parameter, $\beta = \frac{\delta_1}{\tau_0} \frac{dp}{dx}$,

and the blowing parameter, $B = \rho v_0 u_0 / \tau_0$, are held constant. Attention will be given to the behavior of the "eddy viscosity", ϵ , defined by

$$\tau = \rho \left(\nu + \epsilon \right) \frac{\mathrm{d}u}{\mathrm{d}y} \tag{6-1}$$

and the "mixing length", ℓ , which is related to the eddy viscosity through the definition:

$$\epsilon = \ell^2 \frac{\mathrm{d}u}{\mathrm{d}y} \quad . \tag{6-2}$$

It will be shown that for all the experimental boundary layers reported herein, there exists a range of y close to the wall where the mixing length is approximately proportional to the distance from the wall, i.e. where

$$\ell = \kappa y \quad . \tag{6-3}$$

Moreover, the factor of proportionality, the von Karman constant, κ , is the same for all the flows: i.e., κ is independent of the pressure gradient, the transpiration rate, and the Reynolds number.

The range of distances from the wall where approximate proportionality between ℓ and y exists (i.e. where Eq.

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(6-3) remains valid) will be called the "overlap region". It separates the inner "wall region" from the "outer region". In both the inner and outer regions, $\ell \leq \kappa y$, may then be considered the "common asymptote" for the wall region and the outer region.

6.1 Friction Coefficients

All the measured friction coefficients are plotted versus the momentum thickness Reynolds number in the following figures: Fig. 6-1 for m = 0 (constant pressure flows), Fig. 6-2 and Fig. 6-3 for m = -0.15 and Fig. 6-4 for m = -0.20. The "open" symbols represent friction coefficients evaluated by the shear stress method (Section 4.1.2); the "solid" symbols correspond to friction coefficients obtained from the "generalized law of the wall" (see Section 7.3). Also shown in the figures are lines representing analytical "fits" of the friction coefficient data.

The friction coefficients, $(c_f/2)_0$, for the three non-transpired flows (corresponding to m = 0, -0.15 and -0.20) have been fitted by the following equations:

$$(c_{f}/2)_{o} = aRe_{\delta_{2}}^{-0.25}$$
, (6-4)

where

 $m = 0 , a = 0.0120 (850 < Re_{\delta_2} < 3000)$ $m = -0.15, a = 0.0102 (1500 < Re_{\delta_2} < 3500)$ $m = -0.20, a = 0.0083 (1700 < Re_{\delta_2} < 4200)$

These fits seem to be quite adequate for the present range of Reynolds numbers.







In an attempt to correlate all transpired and nontranspired friction coefficients for flows with the same pressure gradient (same m) one might try to determine a function f = f(B) such that

$$\left(\frac{c_{f}}{c_{f,o}}\right)_{m,Re_{\delta_{2}}} = f(B)$$
, where $B = \frac{F}{(c_{f}/2)}$. (6-6)

A correlation of the above type was shown by Simpson [2] to exist for constant pressure (m = 0) boundary layers. However, for convenience the following relationship will be preferred:

$$\left(\frac{c_{f}}{c_{f,o}}\right)_{m,Re_{\delta_{2}}} = f_{o}(B_{o}) \text{ where } B_{o} = \frac{F}{(c_{f}/2)_{o}} . \quad (6-7)$$

From the above definitions it is obvious that $B_0 = Bf(B)$, $B = B_0/f_0(B_0)$ and $f(B) = f_0(B_0)$ so that if Eq. (6-6) holds true then Eq. (6-7) follows, and vice versa. Therefore correlations (6-6) and (6-7) are equivalent formulations. Figure 6-5 shows $\begin{pmatrix} c \\ c \\ f_0 \end{pmatrix}_{Re_{\delta_0}}$ for constant pressure

(m = 0) boundary layers plotted versus B_0 (only data for $x \ge 22$ inches is shown). The existence of a relationship of the form (6-7) for these zero pressure gradient boundary layers merely confirms Simpson's earlier experimental finding. Simpson's best fit of his experimental results is represented by the dashed line in the figure.

Figure 6-6 displays experimental results (for $x \ge$ 34 inches) for the m = -0.15 boundary layers. Note that the data, as anticipated, can be adequately correlated by an equation of the type (6-7). The best fits (least square)









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for the three pressure gradients are summarized below:

$$m = 0 \quad : \quad f_{0} = 1 - .351B_{0} + .045B_{0}^{2} - .00187B_{0}^{3} ; \quad 0 \le B_{0} < 7$$
$$m = -0.15 : \quad f_{0} = 1 - .370B_{0} + .0438B_{0}^{2} ; \quad -2.2 < B_{0} < 4$$
$$m = -0.20 : \quad f_{0} = 1 - .51B_{0} ; \quad -1.2 < B_{0} \le 0$$
(6-9)

The friction coefficient for a given boundary layer may then be evaluated as $c_f/2 = (c_f/2)_o f_o(B_o)$, where $(c_f/2)_o$ is given by Eqs. (6-4). Note that the correlation for m =-0.20 is based on only two boundary layers. The correlations, Eqs. (6-9) should of course not be used outside the range of experimental Reynolds numbers; these may be read off Figs. 6-1 to 6-4.

6.2 The Outer Region

The outer region includes approximately the outer 90% of the boundary layer. It includes the logarithmic portion of the mean velocity profile as an inner asymptote.

6.2.1 Velocity Defect Profile Similarity

The analysis of Chapter 2 suggested that turbulent boundary layers subject to the boundary conditions Eqs. (2-12) and (2-13) would have a constant acceleration parameter, β , and a constant blowing parameter, B. The data tabulated in Chapter 9 show that this is indeed the case in practice for $x \ge 10$ inches, for m = 0, and for $x \ge 3^4$ inches, for m = -0.15 and m = -0.20. Therefore assumption (a), (b) and (c) of Chapter 2 which formed the basis for the analysis are verified for the present experimental range of parametric variations. Furthermore, the boundary layers with constant β and constant B also have a constant Clauser shape factor, G (defined by Eq. (2-3)). Thus constant β and B boundary layers are equilibrium flows i.e., they have velocity defect profile similarity. Figure 6-7 shows velocity defect profiles for a blown equilibrium boundary layer. Note the near perfect similarity in the outer region of the boundary layer. This similarity is of course also indicated by the constancy of the Clauser shape factor, G.

In Fig. 6-8 G has been plotted against $(\beta + B)$ for all the runs reported (only profiles for $x \ge 3^4$ inches are included). Each run consists of 5 profiles along the plate. The runs for which β and B are constants are, as mentioned, equilibrium boundary layers; measured values of G are substantially the same for all profiles of the run and thus plot almost as a single (filled) symbol. The open symbols are for constant $F \ne 0$ runs. For these runs (β + B) changes along the plate. Note that the shape factor, G, <u>is a unique function of $(\beta + B)</u> (rather than of <math>\beta$ and B separately). The fact that $G = G(\beta + B)$ indicates that the acceleration parameter, β , and the blowing parameter, B, have identical effect on the shape of the velocity defect profile. This is true at least for equilibrium boundary layers and for flows close to equilibrium (constant F).</u>

6.2.2 Shear Stress, Eddy Viscosity and Mixing-Length

In view of the velocity defect profile similarity demonstrated in the previous section for boundary layers with constant β and B it may be reasonable to expect that the shear stress, eddy viscosity and mixing-length profiles are also self-similar (i.e. independent of the Reynolds number) for these flows. Clauser 1956 [18] showed that the assumption of a constant eddy viscosity, $\epsilon = k\delta_1 u_{\infty}$ (k \simeq 0.018), in the outer region of non-transpired equilib-



Fig. 6-7 Defect profiles for a blown equilibrium boundary layer



Fig. 6-8 Clauser shape factor. All runs except 102171-1 and 092271-5 are represented

rium boundary layers leads to the prediction of velocity defect profiles that compare very well with experimental profiles. In Fig. 6-9 $k = \epsilon/\delta_1 u_{\infty}$ is plotted against y/δ_{99} for an equilibrium boundary layer with B = 0. Note that the assumption of a constant k is not quite satisfactory, but that $k = \epsilon/\delta_1 u_{\infty}$ does show outer similarity, i.e. may be expressed as:

$$\mathbf{k} = \mathbf{k} (\mathbf{y} / \Delta) \tag{6-11}$$

(Δ and δ are proportional for constant G flows (see Chapter 2)).

Velocity defect profile similarity means that $(u-u_{\infty})/u_{\tau} = F(y/\Delta)$. Using this in Eq. (6-1) for the shear stress, and neglecting the viscous contribution one may obtain

$$\frac{\tau}{\tau_{o}} = k \left(\frac{y}{\Delta} \right) F' \left(\frac{y}{\Delta} \right) \quad . \tag{6-12}$$

In Fig. 6-10 experimental values of τ/τ_0 are plotted against y/δ_{99} for three equilibrium flows. It may be noted that the similarity indicated by Eq. (6-12) does indeed exist.

From the definition of the mixing length, Eq. (6-2), one may now obtain:

$$\frac{\ell}{\Delta} = \sqrt{k\left(\frac{y}{\Delta}\right)/F'\left(\frac{y}{\Delta}\right)} \quad . \tag{6-13}$$

In Fig. 6-11 experimental values of ℓ/δ_{99} is plotted against y/δ_{99} for the same boundary layer for which $\epsilon/\delta_1 u_{\infty}$ was displayed in Fig. 6-9. Note that the mixing length, as expected, shows the same outer region similarity as $(u-u_{\infty})/u_{\tau}$, τ/τ_0 and $k = \epsilon/\delta_1 u_{\infty}$. The above conclusions concerning similarity (i.e. Reynolds number independence of $k = \epsilon/\delta_1 u_{\infty}$, τ/τ_0 and ℓ/δ_{99}) were based on data corresponding to a rather limited range of Reynolds numbers. There is



Fig. 6-9 Profiles of non-dimensional eddy viscosity in outer region. Weak adverse pressure gradient, no transpiration



Fig. 6-10 Non-dimensional shear stress profiles for three equilibrium boundary layers. Weak adverse pressure gradient

some evidence of a slight Reynolds number effect for small Reynolds numbers. The predictions carried out in Section 7.4 indicate that the value of ℓ/δ_{99} in the outer region decreases as $\operatorname{Re}_{\delta_2}^{-.125}$ for $\operatorname{Re}_{\delta_2} < 6000$. The same effect has previously been reported in connection with predictions of turbulent boundary layers in favorable pressure gradients.

In Fig. 6-12 l/δ_{99} is plotted versus y/δ_{99} for a broad range of pressure gradient and transpiration boundary conditions. All the profiles are for x = 70 or 82 inches. Figure 6-12 includes not only equilibrium boundary layers, but also flows with $F = const. \neq 0$; these latter boundary layers deviate slightly from equilibrium (G is not quite constant). The figure indicates a slight systematic decrease in the value of ℓ/δ_{99} in the outer region with increasing blowing rate. However, all the profiles are for approximately the same x-position. This means that the Reynolds number, ${\rm Re}_{\delta_2}$, increases with an increasing blowing rate for a given $^2 pressure gradient. Because of the$ Reynolds number effect mentioned above it is not possible to deduce a possible effect of transpiration from Fig. 6-12 alone. However, the predictions of the experimental flows carried out in Section 7.4 indicate that increasing values of the blowing fraction, F , correspond to reduced values of ℓ/δ_{QQ} in the outer region.

Figure 6-12 shows very clearly that $\ell = \kappa y$ becomes a common "asymptote" for the mixing length for small enough values of y/δ_{99} . The overlap region, where $\ell = \kappa y$, separates the outer region from the inner region.

Figure 6-13 shows experimental profiles of $\epsilon/\delta_1 u_\infty$ versus y/δ_{99} . The plot is equivalent to Fig. 6-12 for the mixing length. It indicates the same systematic behavior for $\epsilon/\delta_1 u_\infty$ in the outer region as was observed for ℓ/δ_{99} .

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Fig. 6-11 Profiles of non-dimensional mixing-length in outer region. Weak adverse pressure gradient, no transpiration



Fig. 6-12 Profiles of non-dimensional mixing-length in outer region. Comparison for selected boundary conditions



Fig. 6-13 Profiles of non-dimensional eddy viscosity in outer region. Comparison for selected boundary conditions

6.3 The Inner Region

In the inner region ("wall region") of the boundary layer, viscous effects are important and u_{τ} and ν/u_{τ} are generally used as velocity and length scales. The nondimensional mean velocity profile, for example, is described, by the "wall coordinates" $u^+ = u/u_{\tau}$ and $y^+ = yu_{\tau}/\nu$. Similarly the transpiration rate will be expressed as $v_o^+ = v_o/u_{\tau}$ (and not by the blowing parameter, B, which is appropriate in the outer region). The proper pressure

gradient parameter is $p^+ = \frac{v}{\rho u_\tau^3} \frac{dp}{dx}$.

6.3.1 Mean Velocity Profiles in Wall Coordinates

Figure 6-14 shows experimental velocity profiles in wall coordinates for the three non-transpired boundary layers (corresponding to m = 0, -0.15 and -0.20). Note that the three flows have pressure gradients ranging from $p^+ = 0$ to a rather severe adverse pressure gradient, $p^+ = 0.0075$, but that they all fit the law of the wall:

$$u^{+} = \frac{1}{0.41} lny^{+} + 5.0$$
 (6-14)

(constants from Coles [14]) reasonably well over a range of y^+ .

Figure 6-15 is a plot of experimental mean velocity profiles in wall coordinates all belonging to the same family (m = -0.15), but having different transpiration rates, v_0^+ , and pressure gradients, p^+ . The profiles for $v_0^+ > 0$ (blowing) lie above the law of the wall, Eq. (6-14), and those for $v_0^+ < 0$ (suction) lie below. It appears however, that all the experimental profiles have a "logarithmic portion" i.e. a region where u is proportional to ℓny . A "generalized law of the wall" that fits this region for all the experimental flows will be presented in Section 7.3.



6.3.2 Mixing-Length and Eddy Viscosity

Figure 6-16 shows experimental values of l/y plotted versus y^+ for boundary layers with different transpiration rates. Note that for large enough values of y^+ they all exhibit a range where $l/y \simeq 0.41$; this is the overlap region between the inner and outer regions of the boundary layer. The thickness (in terms of y^+) of the inner region can be seen to depend greatly upon the transpiration rate, v_0^+ . It depends similarly on the pressure gradient parameter, p^+ . Large values of v_0^+ or p^+ correspond to thin sublayers.

The observed deviation from proportionality between ℓ and y in the inner region may be accounted for by, for example, the van Driest model for the mixing length:

$$\ell = \kappa y \left[1 - \exp\left(-\frac{y}{A}\right)\right] \tag{6-15}$$

Note that this model assures the proper asymptotic behavior, $\ell = \kappa y$, for "large" values of y. The parameter A may be considered a length scale proportional to the thickness of the inner region. The value of $A^+ = Au_r/v$ therefore must depend upon v_0^+ and p^+ i.e. $A^+ = A^+(p^+, v_0^+)$. Experimentally A^+ may be found by fitting $\ell/y =$ $\kappa[1 - \exp(-y^+/A^+)]$ to the experimental values of ℓ/y . Here, however, an indirect method that assures a correct mean velocity profile in the overlap region will be used. From the definitions of ϵ and ℓ , Eqs. (6-1) and (6-2) together with the expression (6-15) one may obtain

$$\frac{du^{+}}{dy^{+}} = \frac{2\tau^{+}}{1 + \sqrt{1 + 4\tau^{+}\kappa^{2}y^{+2}[1 - \exp(-y^{+}/A^{+})]^{2}}}, \quad (6-16)$$

where $\tau^+ = \tau/\tau_0$. Using the experimental shear stress profile this equation may be integrated (numerically) to give u^+ as a function of y^+ with A^+ as a parameter. The experimental values of A^+ have then been chosen such that the velocity profiles thus generated match the experimental velocity profiles in the overlap region (in practice at $y^+ \simeq 2.5A^+$).

In Fig. 6-17 experimental values of ℓ/y are plotted versus $y/A = y^{+}/A^{+}$, where A^{+} is determined by the above method. Note how data points for boundary layers with a wide range of sublayer thickness (as expressed by A) now plot on a single universal curve. The continuous curve in Fig. 6-17 corresponds to the behavior of the mixing-length as predicted by a van Driest model.

The successful correlation of the mixing length data obtained by plotting l/y versus y/A suggests that A may be a significant length scale of the inner region. It is therefore quite reasonable to attempt to correlate the eddy viscosity similarly by plotting $\epsilon^+ = \epsilon/\nu$ versus y/A. This has been done in Fig. 6-18; the plot shows that ϵ^+ is indeed a unique function of y/A over an extended range in the inner region.

The experimental values of A^+ have been expressed as a function of p^+ and v_o^+ by the method of least squares. The best fit was obtained by the following expression:

$$A^{+} = 24 \exp\left(\sum_{i=0}^{2} \sum_{j=0}^{1} a_{ij} \left[\ln(v_{o}^{+} + .08) \right]^{i} \left[\ln(p^{+} + .04) \right]^{j} \right),$$
(6-20)

where

$$a_{ij} = \begin{bmatrix} -6.71751 & -1.50414 \\ -4.81589 & -1.24311 \\ -1.27827 & -0.388216 \end{bmatrix}$$



Fig. 6-16 Comparison of two profiles of the normalized mixinglength in the inner region



Fig. 6-17 Profiles of the normalized mixing-length versus the distance from the wall divided by van Driests length scale



The RMS of the relative error of the fit is $\approx 6\%$. Figure 6-19 is a graphical display of the A⁺-correlation represented by Eq. (6-20).

6.4 Profiles of Turbulence Intensities

All the measured profiles of the mean square of the three components of the turbulent velocity fluctuations are presented in this section. The data are presented as profiles of the three non-dimensional intensities, u'^2/u_{∞}^2 , v'^2/u_{∞}^2 and w'^2/u_{∞}^2 , plotted versus the distance from the wall, y , in inches. All the profiles are measured at x = 70 inches.

Figure 6-20 is for the non-transpired, constant pressure boundary layer. Figures 6-21 to 6-32 are for the adverse pressure gradient corresponding to m = -0.15 and Figs. 6-33 and 6-34 are for the m = -0.20 pressure gradient.

The turbulence intensity profiles were measured in the hope that they may serve as reference for future theoretical work which might involve a "turbulence field closure". They are not important for the conclusions of the present investigation.

6.5 Shear Stress Profiles

Measured profiles of the Reynolds stress are plotted versus the distance from the wall for the adverse pressure gradient boundary layers. Figures 6-35 to 6-44 are for boundary layers corresponding to m = -.15 and Figs. 6-45 and 6-46 are for m = -.20 boundary layers.

Also shown in the figures is the shear stress distribution computed from the momentum equation, Eq. (5-11) and the Reynolds stress distribution computed by subtracting the viscous stress, $\tau_{\nu} = \mu \frac{du}{dy}$ from the total shear stress. The skin friction coefficients indicated in the figures

are obtained as the value of $c_f/2$ in Eq. (5-11) that will produce the measured Reynolds stress closest to the wall. See Section 4.1.2 for more details on the shear stress method.

The computed shear stress profiles shown in the figures of course correspond closely to the profiles tabulated in Chapter 9. However, because the friction coefficients used for the tabulated data in Chapter 9 is a curve fit of the measured, "raw" friction coefficients the plotted and the tabulated shear stress profiles may differ by a small constant amount, namely the difference between the raw values of $c_f/2$ (used in the figures) and the fitted values used for the tables.

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Fig. 6-20 Run 120771-1



Fig. 6-21 Run 122271-2



Fig. 6-22 Run 122771-3



Fig. 6-23 Run 121671-3

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Fig. 6-24 Run 122971-1



Fig. 6-25 Run 121171-3



Fig. 6-26 Run 010372-1



Fig. 6-27 Run 071571-5



Fig. 6-28 Run 111571-1



Fig. 6-29 Run 111771-3



Fig. 6-30 Run 101371-2



Fig. 6-31 Run 112871-1

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Fig. 6-32 Run 102171-1



Fig. 6-33 Run 021572-5



Fig. 6-34 Run 110971-1





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Fig. 6-39 Run 121171-3



Fig. 6-41 Run 071571-5



Fig. 6-43 Run 111771-3



Fig. 6-45 Run 021572-5



Fig. 6-46 Run 110971-1

CHAPTER 7

THEORETICAL RESULTS

7.1 Theories for A^+

As demonstrated in Chapter 6 the thickness of the wall region (expressed in the wall coordinate y^+) varies considerably with pressure gradient and transpiration rate. Adverse pressure gradients and blowing result in "thin" wall regions; favorable pressure gradients and suction have the opposite effect. In the van Driest model (Eq. (6-15)) for the mixing-length, A may be interpreted as a measure of the sublayer thickness. The measured variation of A^+ $(A^+ = Au_{\tau}/v)$ with p⁺ and v⁺_o is expressed by Eq. (6-20) which is a least squares fit of the experimental data. Itwould obviously be desirable to have a theory which would account for the functional dependence of A^+ upon p^+ and v_{\circ}^{+} . Attempts in this direction have been reported by several authors; some of the ideas will be discussed below. One of the proposed theories, the idea of a critical "Reynolds number of turbulence" defining the thickness of the wall region is supported by the present data.

Patankar and Spalding [19] modified van Driest's mixinglength model to read:

$$\ell = \kappa y \left[1 - \exp \left(- \frac{y^+}{A_o^+} \sqrt{\tau^+} \right) \right] , \qquad (7-1)$$

where A_0^+ is a constant. Note that in this formulation the "effective" van Driest length scale, $A^+ = A_0^+ / \sqrt{\tau^+}$, is a function of y^+ . The behavior of the non-dimensional shear stress, τ^+ , may be expressed by the Couette-flow approximation:

$$\tau^{+} = 1 + p^{+}y^{+} + v^{+}_{0}u^{+}$$
 (7-2)

From this it can be seen that the factor, $\sqrt{\tau^+}$, in the modified van Driest model, Eq. (7-1), has the correct qualitative influence; it results, for example, in lower values of the effective local length scale for adverse pressure gradients and blowing (i.e. $p^+ > 0$ and $v_0^+ > 0$). However, although Eq. (7-1) appears to be adequate for flows with weak transpiration rates and pressure gradients, it is not satisfactory for larger values of p^+ and v_0^+ even if the correct value of τ^+ (rather than the Couette-approximation, Eq. (7-2)) is used.

Cebeci [20] improved the performance of the model by evaluating τ^+ in Eq. (7-1) at $y^+ = 11.8$. The result is that the van Driest length scale becomes:

$$A^{+} = A^{+}_{O} \sqrt{\tau^{+}(11.8)} . \qquad (7-3)$$

However, in evaluating the shear stress, τ^+ , Cebeci not only used the Couette-flow approximation Eq. (7-2), but also assumed that the shear stress has no Reynolds stress contribution all the way out to $y^+ = 11.8$. The result is that the value of τ^+ used by Cebeci in Eq. (7.3) is not the actual shear stress at $y^+ = 11.8$, but rather a function of p^+ and v_0^+ that happens to account for the behavior of A^+ . This fact is further emphasized by the arbitrary value of $y^+ = 11.8$.

Launder and Jones [21] proposed that at the "edge" of the sublayer (which was taken to be at $y^+ = A^+$) a Reynolds number of turbulence,

$$\operatorname{Re}_{\mathrm{T}} = \frac{\ell \sqrt{-\overline{u'v'}}}{\nu} \qquad \begin{array}{c} (\ell \text{ is the mixing-length}) \\ (7-4) \end{array}$$

takes on a constant, characteristic value. (Note that since by definition, $-\overline{u'v'} = \epsilon \frac{du}{dy}$ and $\ell = \sqrt{\epsilon/\frac{du}{dy}}$ then

 $\varepsilon^+ = \frac{\varepsilon}{\nu} = \mathrm{Re}_\mathrm{T}$). This assumption seems to have some physical basis and a paper by Bradshaw [22] had indeed suggested that the Reynolds number of turbulence, Re_T , remains smaller than about 12 everywhere in a turbulent boundary layer undergoing laminarization. If laminarization is interpreted as the growth of the sublayer until it penetrates to the edge of the boundary layer, then the idea of a characteristic value of Re_T as defining the edge of the sublayer seems reasonable.

7.2 Sublayer Thickness and Characteristic Shear Stress

The derivative du/dy may be eliminated from the defining equations (Eqs. (6-1) and (6-2)) for the eddy viscosity, ϵ , and the mixing length, ℓ . Introducting $\epsilon^+ = \epsilon/\nu$ and $\tau^+ = \tau/\tau_0$ the result may be expressed as

$$y^{+}\sqrt{\tau^{+}} = \sqrt{\epsilon^{+}(1+\epsilon^{+})}/(\frac{\ell}{y})$$
(7-5)

Now Figs. 6-17 and 6-18 indicate that both ϵ^+ and ℓ/y quite adequately may be described as unique functions of $y/A = y^+/A^+$ over a range in the inner region. It is therefore to be expected that $y^+\sqrt{\tau^+}$, the left hand side of Eq. (7-5), similarly depends upon y^+/A^+ in a range.

For the non-transpired constant pressure boundary layer $\tau^+ \simeq 1$ all the way from the wall and out through the logarithmic region of the velocity profile. The right hand side of Eq. (7-5) must therefore be equal to $y^+A^+_{a}/A^+$ and the equation may be written

$$\sqrt{\tau^+} \simeq A_0^+ / A^+ \qquad (7-6)$$

The validity of this equation may be checked directly by plotting experimental profiles $\frac{A^+}{A^+_o} \sqrt{\tau^+}$ versus $y^+A^+_o/A^+$.

This has been done in Fig. 7-1 for a wide range of boundary conditions. Examination of this graph reveals that there is a range away from the wall where Eq. (7-6) is an adequate description of the shear stress behavior. This range corresponds to the logarithmic region of the mean velocity profiles.

Figure 7-1 is highly suggestive of the idea that Eq. (7-6) might be exactly true at a certain characteristic distance, y_c , from the wall. It is thus suggested that

$$\sqrt{\tau_c^+} = A_0^+ / A^+$$
, (7-7)

where the "characteristic shear stress", τ_c , obtains at the "characteristic point", $y_c = \alpha A \ (\alpha \approx 3)$. It is difficult to give a precise value of the constant, α , because Eq. (7-6) is adequate for a wide range of y^+/A^+ . (By the same token a precise value of α is not needed because $\tau \approx \tau_c$ in a range around $y = \alpha A$).

If the "characteristic velocity scale", $u_c = \sqrt{\tau_c/\rho}$, is introduced Eq. (7-7) may be written

$$\frac{Au_c}{v} = A_o^+ \tag{7-8}$$

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Equations (7-7) and (7-8) are equivalent formulations of a relationship between the measure of the sublayer thickness, A, and the characteristic shear stress, τ_c . Equation (7-8) in particular shows that ν/u_c is a measure of the sublayer thickness entirely equivalent with and proportional to A.

The definitions of the eddy viscosity, ϵ , and the mixing length, ℓ , imply that

$$\epsilon^{+} = \frac{1}{2} + \sqrt{\frac{1}{4} + \ell^{+2} \tau^{+}}$$
, where $\ell^{+} = \ell u_{\tau} / \nu$ (7-9)



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The characteristic point, $y_c = 3A$, is located in the logarithmic region where, as noted, l = 0.41y. The value of the Reynolds number of turbulence, $\text{Re}_T = l \sqrt{-u'v'}/v = \epsilon^+$, may therefore be obtained at the characteristic point by inserting $l_c^+ = 0.41y_c^+$, $y_c^+ = 3A^+$ and the result from Eq. (7-7) into Eq. (7-9). The result is that $\epsilon_c^+ = 29$ i.e. a constant. In other words the Reynolds number of turbulence has a "characteristic" value (independent of the pressure gradient and/or transpiration rate) at the characteristic point, y_c .

A turbulent boundary layer prediction program that solves the differential boundary layer equations may use either Eq. (7-8) or the fact that $\epsilon^+(3A) = \epsilon_c^+ = 29$ to obtain A, and thereby provide "closure" in the inner region.

Predictions of some of the present experimental boundary layers with closure provided by Eq. (7-8) are presented in Section 7.4.

The measure, A , of the sublayer thickness is of course the length scale in the van Driest model

$$\ell = \kappa y \left[1 - \exp\left(-\frac{y}{A}\right)\right] \qquad (7-10)$$

This reference to a particular mixing-length model may at first seem to limit the generality of Eqs. (7-7) and (7-8). However, experience with two alternative models has shown that this is not the case. The two mixing-length models are:

1. The two-layer model:

$$\ell = \begin{cases} 0 & \text{for } y \leq C \\ \kappa y & \text{for } y > C \end{cases}$$
(7-11)

2. The Evans [23] model:

$$\ell = \begin{cases} \kappa y^2 / B & y \leq B \\ \kappa y & y > B \end{cases}$$
(7-12)

For these two models C and B are measures of the sublayer thickness equivalent to A in the van Driest model Eq. (7-10). If C_0 and B_0 represent the case of a nontranspired, constant pressure boundary layer it is found that,

$$\frac{A}{A_{o}} = \frac{C}{C_{o}} = \frac{B}{B_{o}}$$
(7-13)

In other words the ratio $A^+/A_0^+ = A/A_0$ seems to be a true measure of the relative sublayer thickness because its value is independent of any particular assumption about the mixing length behavior in the inner region. Since Eqs. (7-7) and (7-8) only involve the ratio, A^+/A_0^+ they may be thought of as universal and not dependent upon the use of the van Driest model.

7.3 Generalized Law of the Wall

In Chapter 6 it was demonstrated that the classical law of the wall

$$\frac{u}{u_{\tau}} = \frac{1}{\kappa} \ln \frac{y u_{\tau}}{v} + c \quad (\kappa = 0.41 \text{ and } c = 5.0) \quad (7-14)$$

fails for boundary layers with transpiration. It continues to hold, at least approximately, even in rather strong adverse pressure gradients whereas it rapidly becomes inapplicable for favorable pressure gradient boundary layers. (For evidence of the latter statement see for example Loyd [4]). Several authors have proposed forms of the law of the wall applicable for constant pressure flows with transpiration. Coles [24] gives a critical survey of these laws and also proposes a new generalized law of the wall.

All the proposed laws of the wall (except Coles') rely on an integration of the Couette approximation Eq. (7-2)for the shear stress using the Prandtl assumption, $\ell = \kappa y$, for the mixing length behavior in the logarithmic region. The difference between them is essentially the choice of the integration constant. However, it cannot easily be extended to boundary layers with strong adverse pressure gradients because the Couette approximation in this case becomes too inaccurate in the logarithmic region. Simpson's law of the wall, which is especially successful in fitting most available data, becomes inapplicable for very strong suction or blowing rates.

Coles' new law of the wall is based on a Millikan [25] type argument which leads to the conclusion that a logarithmic portion of the mean velocity profile must exist if both wall region similarity and outer region similarity (in the form of a defect law) exists. The difference between Coles' new law of the wall and the classical law, Eq. (7-14), is that u and y are normalized by u_0 and $y_0 = v u_0 / u_{\tau}^2$ respectively rather than on u_{τ} and v / u_{τ} . u_0 is a shear velocity based on the average shear stress for a "laminar sublayer". This computational concept is assumed to extend from the wall to the point where the laminar velocity profile intercepts the logarithmic law of the wall.

Coles himself concludes that his new law of the wall does <u>not</u> fit the experimental data as well as, especially, Simpson's law of the wall. This author feels that the reason for the relative failure of Coles approach is the insistance that the normalizing scales, u_0 and y_0 , satisfy the condition, $u_0/y_0 = u_\tau^2/\nu$. This condition is

rooted in Coles' requirement that the normalized velocity profile (i.e. the profile in terms of u/u_0 and y/y_0) shows similarity in the <u>entire</u> inner region, i.e., not only in the logarithmic region, but also in the viscous sublayer. Such a requirement cannot be satisfied and is furthermore unnecessary. The reason for Coles' insistance on this point is apparently that he arrived at the law of the wall from a Millikan argument which presupposes the existence of a set of wall coordinates i.e. u/u_0 and y/y_0 in terms of which similarity exists all the way to the wall. But in order to conclude that a logarithmic region exists it is enough to assume that <u>two distinct</u> regions exist; the innermost of these two regions does <u>not</u> have to extend into the fully viscous region.

In the following a new law of the wall is proposed. The essential feature is the use of the coordinates u/u_c and yu_c/ν , where $u_c = \sqrt{\tau_c/\rho}$ is a velocity scale based on the characteristic shear stress, τ_c . It was shown in the previous section that τ_c characterizes the shear stress in the logarithmic region and furthermore is directly related to the thickness of the viscous sublayer through Eq. (7-8) which may be written:

$$\frac{u_c}{u_\tau} = \frac{A_o^+}{A^+} \tag{7-15}$$

It was found that τ_c obtains <u>exactly</u> at the characteristic wall distance, $y_c = 3A$, which may be said to define the thickness of the viscous sublayer. The van Driest length scale, A, in Eq. (7-15) can therefore be thought of as merely a convenient measure of the sublayer thickness for which experimental values are available.

It has been shown that both l/y and ϵ/ν plot as unique functions of $y^+A_0^+/A^+ = yu_c/\nu$ (see Figs. 6-17

and 6-18) over an extended range in the wall region. This range includes the logarithmic region.

From the definition of the mixing-length, $\varepsilon = \ell^2 du/dy$, one may obtain

$$\frac{d\left(\frac{u}{u_{c}}\right)}{d\left(\frac{yu_{c}}{\nu}\right)} = \frac{\epsilon/\nu}{\left(\frac{\ell}{y}\right)^{2}\left(\frac{yu_{c}}{\nu}\right)^{2}} \quad . \tag{7-16}$$

The derivative on the left hand side is, in view of what was stated above, expected to be a function of yu_c/v at least in the logarithmic region.

The logarithmic part of the velocity profile will be expressed as

$$\frac{u}{u_c} = \frac{1}{0.41} \ln\left(\frac{yu_c}{v}\right) + 5.0 + h(u_{\tau}/u_c) \quad . \tag{7-17}$$

This expression correctly leads to a derivative,

 $d\left(\frac{u}{u_c}\right)/d\left(\frac{yu_c}{v}\right)$, which is a function of yu_c/v as required by Eq. (7-16). For a non-transpired, constant pressure boundary layer, $u_{\tau} = u_c$, and the function h must be such that h = 0 for this case. The <u>simplest</u> function form with this property is $h = c_1(\frac{\tau}{u_c} - 1)$, where the constant, c_1 , remains to be determined. Inserting this expression for h into Eq. (7-17) and solving for c_1 one obtains

$$e_{1} = \left[\frac{u}{u_{\tau}} - \frac{u_{c}}{u_{\tau}}\left(\frac{1}{0.41} \ln \frac{yu_{c}}{v} + 5.0\right)\right] / \left(1 - \frac{u_{c}}{u_{\tau}}\right).$$
(7-18)

For c_1 to be a constant there must therefore exist a set of coordinates, $(u_1/u_{\tau}, y_1u_c/\nu)$, such that $c_1 = u_1/u_{\tau} = \frac{1}{0.41} \ln \frac{y_1u_c}{\nu} + 5.0$. The value of the constant,

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 c_1 , may thus be found by plotting experimental velocity profiles as u/u_τ versus yu_c/ν . If the assumed form of the function, h, is correct, then there must be a point in these coordinates in which all the profiles intersect. Figure 7-2, in which profiles for a broad range of boundary conditions have been plotted, clearly shows that all the experimental profiles have $(u_1/u_\tau, y_1u_c/\nu) = (14.0,40)$ as a common point. It then follows from Eq. (7-18) that $c_1 = 14.0$ and Eq. (7-16) becomes:

$$\frac{u}{u_c} = \frac{1}{0.41} \ln\left(\frac{yu_c}{v}\right) + 5.0 + 14.0\left(\frac{u_\tau}{u_c} - 1\right) \quad . \tag{7-19a}$$

This new "generalized law of the wall" of course reduces to the classical law of the wall, Eq. (7-14), for $u_c = u_{\tau}$. Equation (7-19a) has been verified by plotting experimental profiles of $\frac{u}{u_c} - 14\left(\frac{u_{\tau}}{u_c} - 1\right)$ versus yu_c/v in Fig. 7-3. It may be noted that the logarithmic portion of all the experimental profiles is well fitted by Eq. (7-19a), thus verifying the new law of the wall for the present data.

The new law of the wall Eq. (7-19a) may of course be expressed in the wall coordinates $u^+ = u/u_{\tau}$ and $y^+ = yu_{\tau}/v$ by making use of the identity, $u_c/u_{\tau} = \sqrt{\tau_c^+}$. The result is:

$$u^{+} = \frac{\sqrt{\tau_{c}^{+}}}{0.41} \ln(y^{+}\sqrt{\tau_{c}^{+}}) + 5.0\sqrt{\tau_{c}^{+}} + 14.0(1 - \sqrt{\tau_{c}^{+}})$$
(7-19b)

Since $\sqrt{\tau_c^+} = A_0^+/A^+$, Eq. (7-15), the generalized law of the wall may also be expressed as

$$u^{+} = \frac{A_{o}^{+}}{A^{+}} \frac{1}{0.41} \ln \left(y^{+} \frac{A_{o}^{+}}{A^{+}} \right) + 5.0 \frac{A_{o}^{+}}{A^{+}} + 14.0 \left(1 - \frac{A_{o}^{+}}{A^{+}} \right)$$
(7-19c)



Fig. 7-2 u^+ versus $yu_c/v = y^+A_o^+/A^+$ for selected runs

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Fig. 7-3 Verification of the generalized law of the wall, Eq. (8-19)

This form of the equation makes the sublayer thickness (i.e. the van Driest length scale) appear explicitly.

Note also that the ratio A_O^+/A^+ is independent of the wall hypothesis, as demonstrated by Eq. (7-13).

In order to make the non-dimensional pressure gradient, p^+ , and the non-dimensional transpiration rate, v_0^+ , appear explicitly in the new law of the wall the characteristic shear stress, τ_c , might be expressed by the Couette approximation, Eq. (7-2). However the term, p^+y^+ , is a very poor approximation of the effect of the pressure gradient on the shear stress in the logarithmic region; only the influence of transpiration can be adequately treated by the Couette approximation. For a constant pressure boundary layer the characteristic shear stress, τ_c , may then be approximated by

$$\tau_{c}^{+} = 1 + v_{o}^{+}u_{c}^{+}$$
 (7-20)

The velocity, u_c^+ , at the characteristic point, y_c , may be obtained from Eq. (7-19b) for $y^+\sqrt{\tau^+} = y_c^+\sqrt{\tau_c^+} = 3A_o^+$. The result is

$$u_{c}^{+} = 14 + 1.4 \sqrt{\tau_{c}^{+}}$$
 (7-21)

Inserting this expression into Eq. (7-20) one obtains a 2nd order equation for $\sqrt{\tau_c^+}$; the solution is, with approximation,

$$\sqrt{\tau_{c}^{+}} = 1 + 7.7 v_{o}^{+}$$
 (7-22)

Inserting this result into Eq. (7-19b) the following <u>approximation</u> for the new law of the wall may be obtained:

$$u^{+} = \frac{1 + 7.7 v_{o}^{+}}{0.41} lny^{+} + 5.0 - 50 v_{o}^{+} + 72 v_{o}^{+2}$$
(7-23)

In passing it may be noted that Eq. (7-22) for $\sqrt{\tau_c^+}$ may be used to obtain an approximate (but quite adequate for moderate transpiration rates) expression for the van Driest length scale, namely:

$$A^{+} = \frac{A_{o}^{+}}{\sqrt{\tau_{c}^{+}}} = \frac{24}{1 + 7.7 v_{o}^{+}} \qquad (7-24)$$

The generalized law of the wall may of course be used to obtain the friction velocity, u_{τ} (and thus the friction coefficient, $c_{f}/2 = u_{\tau}^{2}/u_{\infty}^{2}$), from experimental velocity profiles. For this purpose it is convenient to write Eq. (7-19a) in the form:

$$u = \frac{u_c}{0.41} \ln \left(\frac{y_c}{40\nu} \right) + 14.0u_{\tau} . \qquad (7-25)$$

Thus if u is plotted against lny then u_c may be obtained directly from the slope of the logarithmic region. u_{τ} may then be obtained, for example, as the velocity at $y = 40\nu/u_c$ divided by 14.0. If desired the van Driest length scale may be obtained as $A^+ = 24u_{\tau}/u_c$.

7.4 Predictions of Experimental Boundary Layers

Four of the experimental boundary layers representing rather extreme boundary conditions were predicted using a numerical procedure capable of solving the boundary layer Eqs. (3-1) when "closure" is provided in the form of a connection between the shear stress, τ , and the mean velocity field. The solution method is that of Patankar and Spalding [19].

The closure used in the present predictions is provided by the following model:

$$\tau = \rho(v + \epsilon) \frac{du}{dy}$$
, where $\epsilon = \ell^2 \frac{du}{dy}$. (7-26)

The mixing-length, ℓ , is obtained from the van Driest model, Eq. (6-15) in the inner and overlap region. In the outer region ℓ is taken to be equal to $\lambda\delta_{99}$, where λ is a constant. Thus

$$\ell = \begin{cases} \kappa y \left[1 - \exp\left(-\frac{y}{A}\right) \right] & \text{for } y \leq \lambda \delta_{99} / \kappa \\ \lambda \delta_{99} & \text{for } y > \lambda \delta_{99} / \kappa \end{cases}$$
(7-27)

The length scale, A , in the van Driest model was obtained from Eq. (7-8) which may be written

$$A = \frac{vA_0^+}{u_c}, \text{ where } u_c = \sqrt{\tau(3A)/\rho}. \qquad (7-28)$$

The value of λ is very nearly a constant for all the boundary layers. It was found, however, that the following dependence of λ upon the Reynolds number, Re_{52} , and the blowing fraction, F, leads to slightly improved predictions:

$$\lambda = \begin{cases} \lambda_{\infty} (6000/\text{Re}_{\delta_2})^{\cdot 125} (1 - 67.5\text{F}) \text{ for } \text{Re}_{\delta_2} < 6000 \\ \lambda_{\infty} (1 - 67.5\text{F}) & \text{ for } \text{Re}_{\delta_2} > 6000 \end{cases}$$
(7-29)

In the above expression λ_{∞} is a constant. The dependence of λ upon $\operatorname{Re}_{\delta_2}$ and F is rather weak, but the same dependence has been used with success (see Julien [3]) for the prediction of boundary layer with strong favorable pressure gradients; this seems to indicate that Eq. (7-29) is rather universal.

Not counting the constants in Eq. (7-29) associated with the weak Reynolds number and transpiration dependence, the present closure model contains only <u>three</u> empirical

constants, namely:

- 1. The von Karman constant, $\kappa = 0.41$.
- 2. The van Driest length scale for the non-transpired constant pressure boundary layer, $A_{\Omega}^{+} = 24.0$.
- 3. The value of ℓ/δ_{99} in the outer region, $\lambda_{\infty} = 0.0779$.

All the predictions were started at the first experimental velocity profile (at x = 2 inches). The boundary conditions were specified as the measured free-stream velocity distribution and transpiration rate. The four experimental boundary layers which have been predicted are listed below.

m	Fl	${\tt m}_{ m F}$	Run
0	0	0	120771-1
0	.00375	0	090871-3
15	004	17	122271-2
20	0	0	110971-1

The values given for m , F_1 and m_F specify the nominal boundary conditions (see Section 2).

Figures 7-4 and 7-5 compare experimental and predicted variations of the Reynolds number, Res_2 , and the friction coefficient, $c_f/2$. The slight general overprediction of Res_2 is possibly due to a small experimental three-dimensionality.

Figure 7-6 compares experimental and predicted values of A^+/A_0^+ . The agreement is good.

Figures 7-7 and 7-8 display for comparison experimental and predicted velocity profiles at (in wall coordinates) x = 70 inches. The greatest discrepancy between experiment and prediction occurs for the run (090871-3) with the highest blowing rate. The underprediction of the "strength of the wake" seems to be due to a too high value of λ rather than a faulty value of A^+ .







Fig. 7-6 Comparison of prediction of A^+/A_o^+ with experimental data



Fig. 7-7 Comparison of predicted and experimental velocity profiles

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Fig. 7-8 Comparison of predicted and measured velocity profile

CHAPTER 8

SUMMARY AND CONCLUSIONS

Experimental results for turbulent incompressible boundary layers with transpiration (blowing and suction through a porous wall), and both constant pressure and adverse pressure gradients, have been presented. The three different free-stream velocity distributions may be described by an equation of the form:

$$u_{\infty} \propto u_{1} x^{m}$$
, where $m \leq 0$. (8-1)

The transpiration boundary condition may be expressed by

$$F \propto F_1 x^m F$$
 where $F = v_0 / u_\infty$ and
 $F \gtrsim 0$; $m_F \leq 0$. (8-2)

Table 2-2 summarizes the experimental boundary conditions. A total of 20 "runs" (i.e. sets of different boundary conditions), corresponding to a total of 179 mean velocity profiles, are presented.

All velocity profile measurement were carried out using linearized constant temperature anemometry. In addition to mean velocity profiles, Reynolds stress profiles and profiles of the three turbulence intensities were measured.

The skin friction was determined by a technique involving the measurement of the shear stress close to the wall (as the sum of the Reynolds stress and the viscous stress) and then "extrapolating" to the wall using the integrated boundary layer equations.

The analysis of the experimental results has lead to the following conclusions:

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 The skin friction results for a given pressure gradient (i.e. a given m) may be correlated by an equation of the type:

$$c_{f}/2 = (c_{f}/2)_{0} f_{0}(B_{0})$$
, where $B_{0} = \frac{F}{(c_{f}/2)_{0}}$ and (8-3)

$$(c_{f}/2)_{o} = aRe_{\delta_{2}}^{-0.25}$$
 (8-4)

The constant, a , in Eq. (8-4) for the non-transpired boundary layers depends parametrically upon m (see Eq. (6-4)). Explicit expressions for the function $f_0(B_0)$ are given in Eqs. (6-9). Although different functions are presented for each of the three pressure gradients, these functions do not differ greatly within their common ranges of applicability.

Equation (8-3) may be written in the equivalent form:

$$c_{f}^{2} = (c_{f}^{2})_{o}^{f(B)}$$
, where

$$f(B) = f_{o}(B_{o})$$
 and $B = \frac{F}{c_{f}/2} = B_{o}/f_{o}(B_{o})$.
(8-5)

- 2. Clauser-type equilibrium boundary layers (i.e. flows having a constant Clauser shape factor, G) are obtained for constant values of the Clauser pressure gradient parameter, β , and the blowing parameter, B. Furthermore it is shown that G is a function of (β + B), indicating that constant values of β and B have identical effects upon the shape of the defect profile.
- 3. For all the experimental boundary layers there exists a range of y , the "logarithmic region", where the mixing-length may be expressed as

$$\ell = \kappa y \quad (\kappa = 0.41) \quad . \quad (8-6)$$

The von Karman constant, κ , is therefore independent of both transpiration rate and pressure gradient.

4. The logarithmic region is characterized by a shear stress, $\tau_c = \tau(y_c)$. The "characteristic" wall distance, y_c , is related to τ_c through the equation

$$\frac{y_c u_c}{v} = y_{o,c}^+, \text{ where } u_c = \sqrt{\tau_c/\rho} . \qquad (8-7)$$

The constant, $y_{o,c}^+ = 72$, may be interpreted as the characteristic distance (in wall coordinates) for a non-transpired constant pressure boundary layer $(u_c = u_\tau \text{ for this case})$. y_c may be identified as the thickness of the inner region. If for example the van Driest model, Eq. (7-10), is used to describe the mixing-length behavior in the inner region, then the van Driest length scale may be determined as $A = y_c/3$. The length scales for other mixing-length models are also proportional to y_c .

- 5. The Reynolds number of turbulence, $\operatorname{Re}_{T} = \ell \sqrt{-u'v'}/\nu = \epsilon/\nu = \epsilon^{+}$, has the constant, characteristic value, $\epsilon_{c}^{+} = 29$, at the characteristic point, $y = y_{c}$.
- 6. A new generalized law of the wall which fits the logarithmic region of all the experimental velocity profiles, may be expressed as

$$\frac{u}{u_c} = \frac{1}{0.41} \ln\left(\frac{yu_c}{v}\right) + 5.0 + 14.0\left(\frac{u_\tau}{u_c} - 1\right) \quad . \tag{8-8}$$

This new law of the wall reduces to the classical law for $u_c = u_\tau$, i.e., for the case, where the shear stress in the logarithmic region is equal to the wall shear stress.

- 7. Successful predictions of four of the experimental boundary layers have been carried out using a numerical procedure that solves the differential boundary layer equations. The closure (mean velocity field) relies on only three empirical constants:
 - a) The von Kármán constant, $\kappa = 0.41$.
 - b) The constant $y_{0,c}^{+} = 72$ in Eq. (8-6).
 - c) The value $\lambda_{\infty} = \ell/\delta_{99} = 0.0779$ used in the outer region of the boundary layer.

The van Driest model was used for the mixing-length in the inner region. (The length scale was obtained from

$$3A = \frac{v}{u_c} y_{o,c}^+$$
).

CHAPTER 9

TABULATED EXPERIMENTAL DATA

All the experimental data related to the mean velocity profiles are presented in this chapter. The run numbers together with corresponding nominal boundary conditions (see Section 2.3) are listed in the table below.

1.1

Run	m	r1	$^{\rm m}{ m F}$
120771-1 100571-1 090171-2 090871-3 092271-5	0 0 0 0	0 .001 .002 .00375 .008	0 0 0 0
122271-2 122771-3 121671-3 122971-1 121171-3 010372-1 071571-5 111571-1 091771-2 111771-3 101371-2 112871-1 102171-1	15 15 15 15 15 15 15 15	004 002 002 001 001 0 .001 .001 .002 .002 .002 .004	$\begin{array}{c} 0 \\17 \\ 0 \\17 \\ 0 \\17 \\ 0 \\17 \\ 0 \\17 \\ 0 \\17 \end{array}$
021572-5 110971-1	20 20	004 0	16 0

Table 9-1 Run numbers and nominal boundary conditions

Table 9-2 gives the measured streamwise velocity distributions for all the runs and Table 9-3 presents the measured blowing fractions.

Each of the following three sections contains a run by run summary of a few relevant parameters for each velocity profile. The profile tables following this summary contain a detailed list of boundary conditions, skin friction coefficients and integral parameters.

<u>Note</u>: The free-stream velocities listed in the summaries and the profile tables of the following sections are hot-wire results corresponding to the last profile points, whereas the free-stream velocity distributions listed in Table 9-2 is computed from the pressure distribution. As a consequence slight discrepancies between the two quotations of u_{∞} may be found. The pressure gradient parameter, $K = \frac{v}{u_{\infty}^2} \frac{du_{\infty}}{dx}$, is computed on the basis of the velocities in Table 9-2 (see Appendix B for details).

Special Nomenclature and units:

BETA	=	·β
CF2	=	c _f /2
Dl	=	δ _l [in]
D2	=	δ_2 [in]
D99	=	δ ₉₉ [in]
DC	=	Δ
NU	-	v [ft ² /s]
RD2	=	Re _{b2}
vo+	=	v_0^+
UI	=	u_{∞}
บ *	=	u _r
TAU	=	$\tau/\rho u_{\infty}$
TAULAM	=	$\tau_{\gamma}/\rho u_{\infty}$
Х	=	x [in]
Y	=	y [in]

Table 9-2 Measured free-stream velocity distributions; u_[ft/s]

9.1 Constant Pressure, m = 0

RUN:	12077	1-1 NU	= 0.159E-03								
N	x	UI	ĸ	F	RD2	CF / 2	BETA	в	BETA+B	G	A +
ı	2.	31.21	0.1395-C8	0.00000	535.	0.00249	-0.000	0.000	-0.000	7.00	
ź	10.	31.13	0.123E-08	0.000.00	849.	0.00222	-0.001	0.000	-0.001	6.91	
3	22.	31.14	0.9265-09	00707.0	1251.	0.00202	-0.001	0.000	-0.001	7.20	
4	34.	31.05	0.563E-09	00000.0	1588.	0.00190	-0.001	0.000	-0.001	7.07	24.0
5	46.	31.Ç4	C.138E-09	0.0000	1926.	0.00181	-0.000	0.000	-0.000	7.20	24.0
6	58.	31.13	-C.351E-09	C.00000	2240.	0.00174	0.001	0.000	0.001	7.22	24.0
7	70.	31.04	-0.9028-09	C.00000	25/4.	0.00168	0.002	0.000	0.002	7.22	24.0
8	82.	31.06	-0.196E-08	0.00000	3093.	0.00161	0.005	0.000	0.005	7.17	
,		51.000									
RUN:	10057	/1-1 N	J= 0.164E-03								
N	x	UT	к	F	RD2	CF/2	BETA	8	BETA+B	G	A+
,	-	30.05	D (005 CD		6.0.6		0 0 0 0	. /			
1	2.	30.95	0.489E-CB	0.00103	525.	0.00217	-0.002	0.475	0.473	7.80	
2	22	30.20	0.3036-08	0.00101	1622	0.00193	-0.002	0.524	0.522	8.34	
4	34.	30.51	-0.760E-09	0.00100	1878.	0.00150	0.001	0.666	0.644	9 55	19.8
5	46.	31.28	-0.164E-08	0.00103	2404	0.00138	0.001	0.000	0.748	9.05	10.6
6	58.	31.17	-0.186F-C8	0.00102	2857.	0.00132	0.006	0.775	0.781	9.08	19.5
7	70.	31.10	-0.139E-08	0.00105	3326.	0.00125	0.006	3.842	0.848	9.34	19.3
8	82.	31.18	-0.254E-09	0.00105	3776.	0.00120	0.001	0.877	0.878	9.40	19.3
9	90.	31.02	0.879E-09	0.00104	3996.	0.00118	-0.004	0.882	0.377	9.33	
01114	001	71-2 NJ	- 0 1475-03								
				-				-			
N	x	01	ĸ	F	RDZ	CF/2	BETA	8	BETA+B	G	Α*
1	2.	31.66	-0.8736-09	0.00200	566.	0.00183	0.000	1.090	1.091	8.91	
ź	10.	31.57	-0.109E-08	0.00200	1034.	0.00130	0.001	1.534	1.535	9.03	
\$	22.	31+51	-0.113t-08	0.00200	1001.	0.00127	0.002	1.760	1.767	10.34	16 4
5	46.	31.48	-0.508E-09	0.00200	2863.	0.00104	0.003	1.915	1.917	11.20	16.7
6	58.	31.38	0.183E-09	0.00200	3384.	0.00098	-0.001	2.045	2-044	11-40	16.0
7	70.	31.33	0.113E-08	0.00200	3918.	0.00092	-0.007	2.163	2.156	11.54	15.9
8	82.	31.34	0.232E-C8	0.00199	4450.	0.00088	-0.018	2.255	2.237	11.71	15.8
9	90.	31.28	0.326E-08	0.00200	4742.	0.00086	-0.027	2.330	2.303	11.69	
DIIL		171-3	MI= 0 1665-03								
	·· • • • •	. L-J	r	, E	80.7	CE/2	8FT A	в	RFTA+R	6	۸+
	2		• • • • • • • •				0.001		- 476		~
1		31.02	0.1052-08	0.00375	1258	0.000133	-0.001	2.029	2.020	13.26	
â	72.	31.57	0.570E-09	0.00375	2172.	0.00077	-0.003	4-897	4.894	15.03	
4	34.	31.50	0.306E-09	0.00375	3030.	0.00065	-0.002	5.761	5.758	16.25	11.5
Ś	46.	31.39	0.600E-10	0.00376	3863.	0.00057	-0.001	6.554	6.554	17.62	11.2
6	58.	31.40	-0.169E-09	0.00375	4700.	0.00052	0.003	7.226	7.228	18.21	10.9
7	70.	31.31	-0.380E-09	0.00375	5494.	0.00048	0.007	7.861	7.868	18.98	10.7
8	82.	30.94	-0.575E-09	0.00375	6173.	0.00045	0.013	8.381	8.395	19.32	10.6
9	90.	30.98	-0.694E-09	0.00376	6667.	0.00043	0.018	8.802	8.820	19.38	
R UN :	9227	1-5 NL	9.165E−03								
N	x	UI	ĸ	F	RDZ	CF/2	BETA	в	BETA+B	G	
1	7	31 44	0.3475-09	0.00801	750.	0.00104	-0.004	7.557	7.552	13.73	
2	10.	31.47	0.228E-08	0.00796	1783.	0.00031	-0.026	25.492	25.466	28.21	
3	22.	31.46	0.762E-09	0.00804	3349	0.00020	-0.026	40.032	40.005	36.45	
4	34.	31.45	-0.417E-09	0.00801	4876.	0.00016	0.026	49.745	49.771	40.85	
5	46.	31.51	-0.126E-08	0.00802	6340.	0.00014	0.118	57.014	57.132	43.77	
6	58.	31.51	-0.178E-08	0.00798	7830.	0.00013	0.220	61.801	62.021	44.89	
7	70.	31.48	-0.196E-08	0.00798	9327.	0.00012	0.305	65.634	65.939	45.98	
8	82.	31.47	-0.181E-08	0.00799	10787.	0.00012	0.335	68.401	68.736	46.33	

9.2 Weak Adverse Pressure Gradient, m = -.15

RUN:	1222	71-2 NE	J≠ 0.161E-03								
N	x	UI	ĸ	F	RD2	CF/2	BETA	B	BETA+B	G	A*
) 2 3 4	2. 10. 22. 34.	29.32 26.81 24.29 27.95	-0.446E-06 -0.838E-06 -0.463E-06 -0.335E-06	-0.00399 -0.00398 -0.00399 -0.00400	451. 557. 662. 712.	0.00397 0.00380 0.00383 0.00381	0.C73 0.174 0.111 0.C84	-1.006 -1.046 -1.041 -1.050	-0.933 -0.873 -0.929 -0.966	4.84 4.75 4.43 4.13	60.4
5	46.58.	22.07	-0.263E-06 -0.218E-06	-0.00401	761. 773.	0.00379 0.00377	0,070 0.059	-1.059 -1.059	-0.989 -1.000	4.04 3.99	62.5 63.1
7 8	70. 82.	20.77 20.38	-0.187E-06 -0.164E-06	-0.00399 -0.00399	788. 814.	0.00376	0.051	-1.061 -1.065	-1.010 -1.018	3.74 3.81	63.9 64.6
ġ	90.	20.14	-0.160E-06	-0.00401	822.	0.00375	0.045	-1.068	-1.023	3.63	
RUN:	12277	'1-3 NU	± C.161E−C3								
N	x	UI	к	F	RD2	CF/2	BETA	8	BETA+B	G	A+
1 2 3	2. 10. 22.	29.29 26.80 24.29	-0.445E-C6 -0.836E-C6 -0.465E-06	-0.00399 -0.00360 -0.00322 -0.00320	465. 567. 720. 843.	0.00389 0.00369 0.00340 0.00322	0.078 0.184 0.137 0.118	-1.027 -0.976 -0.946 -0.936	-0.948 -C.792 -0.809 -C.813	5.05 4.97 4.86 4.68	43.6
5	46. 58.	21.99	-0.257E-06	-0.00287	970.	0.00310	0.110	-0.926	-C.815	4.89 4.81	43-2
7 8	70. 52.	20.77	-0.176E-06	-0.00268	1167.	0.00293	0.054	-J.915	-0.821 -0.818	4.66	42.3
9	90.	20.01	-C.144E-06	-0.00256	1314.	0.00282	0.089	-0.906	-0.818	4.59	
RUN:	1216	71-3 N	J= 0.158F-03								
N	X	UI	к	F	RDZ	CF/2	BETA	P,	BETA+B	G	А+
1 2	2. 10.	29.30 26.95	-0.441E-06 -0.826E-06	-0.00199 -0.00198	510. 741.	0.00323 0.00282	0.104 0.322	-0.617 -0.703	-0.512 -0.381	5.86 6.13	
3	22. 34.	24.59 23.21	-0.457E-06	-0.00199	1070.	0.00264	0.270	-0.755	-0.485	6.09	34.0
5	46. 58.	22.11	-0.253E-06	-0.00199	1482.	0.00250	0.210	-0.795	-0.585	5.74	34.8 35.3
Ť	70.	20.95	-0.182E-06	-0.00197	1797.	0.00242	0.184	-0.814	-0.630	5.40	35.5
9	90.	20.21	-0.1665-06	-0.00199	2065.	0.00240	0.184 0.194	-0.830	-0.643	5.40	30.0
RUN	: 1229	971-1 •	IU= 0.159E-0	3							
N	x	UI	К	F	ROZ	CF/2	BE TA	8	BETA+8	G	A+
1 2	2. 10.	29.20 26.91	-0.440E-06 -0.826E-06	-0.00199 -0.00178	504. 752.	0.00320	0.104 0.335	-0.623 -3.647	-0,519 -0,312	5.88 6.20	
3	22.	24.38 23.00	-0.460E-06	-0.00159	1089.	0.00244	0.298	-0.650	-0.352	6.34	34 3
5	46.	21.97	-0.257E-06	-0.00142	1592.	0.00221	0.263	-3.642	-(-379	6.32	30.2
7	58. 70.	21.27	-0.211E-06 -0.179E-06	-0.00138 -0.00132	1801.	0.00215	0.248 0.242	-0.643	-(). 396 -U. 394	6.15 6.23	30.5 30.4
8 9	82. 90.	20.26 19.91	-0.155E-06 -0.149E-06	-0.00129 -0.00128	2226. 2316.	0.00203	6.237 0.237	-0.636	-0.400	6.24 6.16	30.5
RUN	: 1211	.71-3 N	IU= 0.160E-01	3 –				_			.+
N	x	01	K	+	RUZ	CF/2	BETA	в	BETA+B	G	A
1 2	10.	29.35 26.89	-0.832E-06	-0.00099	826.	0.00244	0.120	-0,336 -0,406	-0.217 0.C1B	6.47 6.80	
3	22.	24.35	-0.461E-06	-0.00098	1253.	0.00212	0.407	-3.463	-0.356	7.14	26.9
5	46.	21.98	-U.254E-06	-0.00099	1871.	0.00196	0.353	-0.505	-0.153	7.05	27.5
7	28. 70.	20.73	-0.181E-06	-0.00098	2332.	0.00191	0.321	-0.523	-0.202	6.90	28.1
8 9	82. 90.	20.28 19.96	-0.165E-96 -0.165E-96	-0.00198 -0.00098	2573. 2774.	6.00184 0.00181	0.325 0.354	-0.533 -J.541	-0.208 -0.187	6.75 6.72	28.3
RUN	: 103	72-1 N	U= 0.161F-03)							
N	x	UI	к	F	RDZ	CF/2	BETA	8	BETA+B	G	۸*
1	2.	29.27	-0.433E-06	-0.00100	515.	0.00293	0.116	-0.341	-0.225	6.35	
ŝ	22.	24.43	-0.4558-06	-0.0090	1271.	0.00238	0.427	-3.388	0.039	7.44	
4 5	34. 46-	23.06	-0.325E-06	-0.00074	1624. 1973.	0.00191 0.00182	0.408	-0.388 -0.390	0.020	7.38 7.52	25.5 25.8
6	58.	21.50	-7.212E-06	-0.00069	2262.	3.00176	0.396	-3.392	0.004	7.43	26.0
7	70. 82.	20.94	-0.180E-06 -0.156E-06	-0.00067	2545. 2780.	0.00171 0.00167	0.388 0.373	-0.392 -0.389	-0.004	r.46 7.41	26.1 26.2
9	90.	20.16	-0.148E-06	-0.00064	2946.	0.00164	0.379	-3.389	-0.010	7.43	

1 1

RUN	: 715	71-5 N	U= 0.166E-03	i							
N	x	UI	к	F	ROZ	CF/2	BETA	8	BETA+B	G	A*
1 2 3	2. 10. 22.	29.69 26.93 24.57 23.26	-0.460E-86 -0.867E-86 -0.485E-86 -0.368E-06	0.00000 0.00000 0.00000 0.00000	532. 971. 1528. 1986.	0.00271 0.00198 0.00169 0.00153	0.141 0.674 0.686 0.696	0.000 0.000 0.000 0.000	0.141 0.674 0.686 0.696	6.89 8.29 8.77 8.96	21.4
5	46.	22.27	-0.2748-06	0.00000	2434.	0.00145	0.708	0.000	0.708	9.23	21.7
6	58.	21.36	-0.228E-06	0.00000	2781.	0.00146	0.685	0.000	0.685	9.10 9.19	22.0
8	82.	20.35	-0.174E-C6	0.00000	3495.	0.00133	0.685	0.000	0.685	9.08	22.3
9	90.	20.05	-0.170E-06	0.00000	3681.	0.00131	0.712	0.000	0.712	9.09	
RUN	1115	71-1 N	U= 0.161E-03								
N	x	UI	κ	F	RD2	CF/Z	BETA	в	BETA+B	G	A *
1	2.	79.39	=0.444E=06	0.00099	563.	0.00249	0.160	0.397	0.557	7.48	
z	10.	26.52	-0.8432-06	0.00092	1100.	0.00176	0.865	0.523	1.387	9.31	
3	22.	24.26	-0.469E-06	0.00081	1785.	0.C0144 0.00118	0.548	0.563	1.510	10.19	17.8
5	46.	21.98	-0.265E-06	0.00072	2910.	0.00112	1.103	0.543	1.746	11.22	18.2
6	58.	21.19	-0.218E-06	0.00070	3345.	0.00108	1.072	0.648	1.720	11.25	18.5
8	82.	20.23	-0.1562-06	0.00065	4225.	0.00102	1.002	0.636	1.637	11.14	19.0
9	90.	20.09	-0.1455-06	0.00064	45Có.	0.00101	1.000	0.675	1.642	11.17	
RUN	: 917	71-2 N	IU= 0.166E-03	l I							
N	x	UI	к	F	RC2	CF/2	BETA	в	BETA+B	G	д+
1	2.	29.49	-0.467E-06	0.00099	555.	0.00249	Û•167	0.398	C. 564	7.52	
2	10.	26.89	-0.872E-06	0.00099	1090.	0.00173	0.968	J.572	1.480	9.50 10.75	
4	34.	22.87	-0.352E-06	0.00100	2395.	0.00109	1.271	0.917	2.189	11.86	16.7
5	46.	21.80	-D.276E-06	0.00099	2959.	0.00102	1.313	0.971	2.284	12.21	16.9
°7	70.	21.41	-0.193E-06	0.00101	4095.	0.00091	1.411	1.114	2.525	12.41	17.0
8	82.	20.36	-0.169E-06	0.00100	4544.	0.00088	1.403	1.139	2.542	12.71	17.2
g	93.	20.16	-7.164E-06	n.00099	4911.	0.00086	1.562	1.154	2.656	12.80	
RUN:	11171	1-3 NU	J= 0.160E-03								_
N	x	UI	к	F	RD2	CF/2	BETA	В	BETA+B	G	A +
1	2.	29.26	-0.452E-06	0.00200	587.	0.00230	0.187	0.871	1.059	6.00	
2	10.	26.59	-0.847E-06	0.00181	1219.	0.00150	1.165	1.207	2.372	10.56	
4	34.	22.78	-0.336E-06	0.00152	2758.	0.00087	1.806	1.751	3.557	13.88	14.5
5	46.	21.79	-0.263E-06	0.00145	3412.	0.00082	1.853	1.768	3.621	14.30	14.8
6	5%. 70.	20.96	-0.218E-06	0.00139	3973.	0.00079	1.820	1.757	3.576	14.16	15-2
8	82.	Z0.00	-0.1692-06	0.00131	5097.	0.00074	1.897	1.765	3.662	14.25	15.5
9	90.	19.73	-0.1685-06	0.00129	5471.	0.00073	2.053	1.771	3.825	14.28	
RUN	1013	71-2 N	U= 0.164E-03								
N	x	UI	ĸ	F	RDZ	CF/2	BETA	8	BETA+B	G	A*
1	2.	29.77	-0.454E-06	0.00200	591.	0.00228	0.189	0.877	1.067	7.94	
2	10.	27.05	-0.855E-06	0.00201	1213.	0.00152	1.164	1.951	2.480	10.60	
4	34.	23.31	-0.342E-06	0.00202	2855.	0.00078	2.185	2.603	4.788	15.23	12.9
5	46.	22.36	-0.268E-06	0.00202	3585.	0.00071	2.361	2.860	5.220	15.95	12.9
7	70.	20.97	-0.189E-06	0.00202	4877.	0.00062	2.524	3.205	5.729	16.60	12.9
8	82.	20.62	-0.165E-06	0.00202	5576.	0.00058	2.657	3.457	6.114	16.85	12.8
9	90.	20.43	-0.159E-06	0.00201	6015.	0.00057	2.840	3.543	6.383	17.06	
RUN	1128	71-1 N	N= 0.163E-03	I							
N	x	UI	ĸ	F	RD 2	CF/2	BETA	В	BETA+B	G	*A
1	2.	29.49	-0.445E-06	0.00399	641.	0.00194	0.248	2.057	2+305 8,218	9.25	
3	22.	24.18	-0.469E-06	0.00322	2549.	0.00056	4.077	5.745	9.822	20.14	
4	34.	22.85	-0.336E-06	0.00300	3546.	0.00051	4.435	5.882	10.317	20.95	9.2
5	70. 58.	21.77	-0.2208-06	0.00286	5258.	0.00048	4.668	6.020	10.687	21.40	9.8
7	70.	20.55	-0.187E-06	0.00266	6046.	0.00044	4.663	6.039	10.702	21.42	10.0
8	82. 90.	20.13 19.81	-U.162E-06 -0.155E-06	0.00260 D.00256	6870. 7331.	0.00042	4.867	6.152	11.028	21.29	10.2

RUN: 102171-1 NU= 0.162E-03

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N	x	UT	ĸ	F	RDZ	CF./2	BETA	8	BETA+B	G	A +
	2	29.71	-0.4555-06	0.00399	639.	0-00194	0.251	2.052	2.303	9.17	
;	10.	27.02	-0.850E-06	0.00402	1472 .	0.00073	3.179	5.507	8.685	17.06	
÷.	22	24.67	-0.470E-06	0.00402	2757.	0.00042	6.117	9.502	15.620	24.27	
4	34.	23.18	-0.3315-06	0.00400	3891.	0.00035	7.333	11.296	18.628	26.78	6.0
2	46	22.13	-0.255E-06	0.00407	4986 .	0.00031	8.252	12.985	21.237	28.55	5.9
4	20	21 46	-0.209E-06	0.004.01	6040.	0.00028	8.947	14.218	23.165	29.76	5.8
7	70	20.97	-0.1795-06	0.00399	7146.	0.00026	9.625	15.250	24.875	30.42	5.7
6	42	20.48	-0-160E-06	0.00400	A207.	0.00025	10.301	16.287	26.588	30.69	5.7
ŝ	90.	20.27	-0.160E-06	0.00399	8785.	0.00024	11.319	16.686	28.005	31.08	

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RUN:	1109	71+1 N	J= 0.161E-03								
N	X	UI	ĸ	F	RD2	&F/2	BETA	ß	BETA+B	G	4*
L	2.	29.13	-0.699E-86	0.00000	541.	0600269	0.219	0.000	0.219	6.93	
2	10.	25.70	-0.127E-35	0.00000	1024.	04 00275	1.201	0.000	1.201	9.05	
3	ZZ.	22.31	-0.702E-86	0.00000	1727.	0-00129	1.559	0.000	1.559	11.05	
- 4	34.	20.53	-0.504E-86	0-00000	2331.	0.00119	1.626	0.000	1.626	11.43	19.1
5	46.	19.39	-0.396E-#6	0.00000	2845.	0.0021%	1.630	0.000	1,630	11.62	19.8
6	58.	18.55	-0.328E-86	0.00000	3269.	000110	1.577	0.000	1.577	11.48	20.2
7	70.	17.97	-0.2825-66	0.00000	3673.	0.00107	1.547	0.000	1.547	11.39	20.5
8	82.	17.42	-0.249E-06	0.00000	4139.	0-00203	1.575	0.000	1.575	11.43	20.7
9	90.	17.10	-0.2428-06	0.00000	4578.	0.00101	1.750	0.000	1.750	11.72	
RUNI	215	72-5 N	U= 0.160E-03	•							
N	x	UI	ĸ	F	RDZ	CF/2	BETA	в	BETA+B	G	A*
1	2.	29.42	-0.685E-06	-0.00201	519.	0.00276	0.194	-0.728	-0.535	6.37	
2	10.	26.05	-0.125E-05	-0.00177	801.	0.00246	0.611	-0.720	-0.109	6.72	
3	22.	22.55	-0.690E-06	-0.00159	1250.	0.00221	0.590	-0.719	-0.129	7.20	
4	34.	20.69	-0.499E-06	-0.00151	1608.	0.00208	0.571	-0.726	-0.155	7.12	28.8
5	46.	19.49	-0.396E-06	-0.00143	1911.	0.00198	0.565	-0.722	-0.158	7.25	29.2
6	58.	18.73	-0.330E-06	-0.00138	2121.	0.00193	0.524	-0.715	-0.191	7.01	29.5
7	70.	18.10	-0.283E-06	-0.00132	2361.	0.00186	0.518	-0.710	-0.192	6.96	29.5
8	82.	17.53	-0.246E-06	-0.00130	2619.	0.00182	0.505	-0.714	-0.210	7.00	29.8
9	90.	17.02	-0.236E-06	-0.00129	2860.	0.00179	0.542	-0.721	-0.178	7.20	

RUN:	1 207 71-1	L X= 2	• Z=	0.				RUN: 1	20771-1	X=10	• Z= ·	0.				
UI = CF/2= F = K =	31.21 0.0024 0.0004 0.0004 0.139	9 0 	D1 = D2 = DC = D99 =	C.C504 0.0328 1.0089 G.2871	867) 8 P+ VO+	-0.000 -0.000 -0.0000 -0.0000	PCZ = 535. H = 1.538 G = 7.002	UI = CF/2= F = K =	31.13 0.0022 0.0000 0.1238	2 10 - C 6	01 - 02 02 - 0 099 - 0	0.0772 0.0521 1.6383 0.4225	8ET. 8 7+ V0+	0.001 - 0.000 0.000 - 0.000	н D Н С G 0	2 = 849. = 1.484 = 6.9I3
۲	v	¥/0C	u/u1	(1-11)/1	* Y+	U+	TALLAM	۲	U	¥/DC	ι/υΙ	10-1170+	٧+	U+	TAU	TAULAR
0.004	5.81	0.0043	0.166	-16.29	3.5	3.73	0.0.2180	0,005	6.66	0.0031	0.214	-16.67	3.8	4.53	0.00222	0.002155
0.005	6 . 52	0.0053	0.209	-15.84	4.3	4.18	0.002067	0.006	7.53	0.0037	0.242	-16.08	4.6	5.13	0.08222	0+001986
0.006	7.41	0.0062	0.237	-15.27	5.1	4.75	0.001955	0.007	8.54	0.0043	0.274	-15.39	5.4	5.8Z	0.00222	0.001817
0.007	8.25	0.072	0.264	-14.73	6.0	5 29	0. 001 808	0.008	9.48	0.0049	0.304	-14.75	6.1	ć. 45	0.00222	0.001592
0.008	9.21	0.0082	0.295	-14.11	6.8	5,91	0.001835	0.009	10.20	0.0055	0.328	-14,26	6.9	6.55	0.00222	0.001484
0.010	11.25	0.0102	0.361	-12.80	8.4	7.22	0.001665	D.011	11.59	0.0067	0.372	-13.31	8.5	7.50	0.00222	0.001217
0.012	12.75	0.0122	0.408	-11.84	10.0	5,18	0.001450	0.013	12.75	0.0079	0.410	-12.52	10.0	8.69	0+00221	0.001026
0.014	14.37	0,0142	0.461	-10,80	11.7	S. 22	0.001209	0.015	13.74	0.092	0.441	-11.85	11.5	9.36	0.00221	0.000865
0.016	15.47	0.0162	0.456	-10.10	13.3	9,93	0.0010.8	0.017	14.56	0,0104	0.468	-11.29	13.1	9.92	0.00221	0.000745
0,018	16.51	0.0181	0.529	-9,43	14.9	10.59	0.00848	0.026	15,64	0.0122	0.902	-10.55	15.4	10.65	0.00220	0.000612
0.070	17.11	0.0201	0.548	-5.05	16-6	10.57	B @ A 00 A - D	0.023	16,37	0,0140	0.526	-10,06	17.7	11.15	0.00219	0.000509
0.023	18.15	0. 0231	0.582	-8.38	19.0	11.64	0.000560	0.027	17.33	0.0165	0.557	-9.40	20.0	11.01	0.00218	0.000405
0.026	18.91	0.0241	0.606	-7.85	21.5	12.13	0-000470	0.033	18.55	0.0201	0.596	-8.57	25.4	12.63	0.00217	0.000303
0.079	19.55	0-0290	0.676	-7.48	23.9	12.54	0.000404	0.041	19.52	0.0250	0.627	-7,91	31.5	13.30	0.00215	0.000222
0.033	20.27	0.0330	0.649	-7.02	27.2	13.00	0.000332	0.051	20.32	0.0311	C.653	-7.37	39.2	13.84	0.00211	0.000162
0.038	21.15	0.0380	0.678	-6.45	31.3	1 7. 17	0.000270	J. 063	21.26	0.0385	0.683	-6.72	48.4	14.49	0.00207	0.000123
0.044	21.79	0.0439	0.698	-6.04	36.2	13.98	9-000219	0.078	21.98	0.0476	0.706	-6.24	59.9	14.57	0+00201	0.000099
0.052	22.57	0.0518	0.773	-5.54	42.7	14.48	0-040175	0.093	22.71	0.0568	0.729	-5.74	71.5	15.47	0.00194	0.000088
0.062	23.31	0.0617	0.747	-5.07	50.8	14.95	0.000147	0.113	23.42	C.0690	C.752	- 5- 25	86.8	15.55	0.00184	J. 000077
0.072	23.58	0.0717	0,768	-4.64	59.0	15.38	0.00124	0,133	24,18	0.0812	0.777	-4,74	102.2	16.47	0.00174	0.000071
0.087	24.85	0.0865	0.796	-4.08	71.2	15.94	0.00116	0.158	25.08	0.0964	9.896	-4.12	171.4	17.09	0-00159	0.000065
0.102	25.60	0.1014	0.820	~3.60	83.5	16.42	0.060095	0.198	26.30	C.1209	0.845	- 3. 29	152.2	17.92	0.00135	0.000058
0.117	26.27	0.1163	0.84Z	-3.17	95.7	16.85	0.000086	G. 238	27.43	0.1453	0.081	-2.52	182.9	18.69	0.00110	0.000050
0.137	27.12	0.1361	0.869	-2.63	112.1	17.40	0.000077	0.278	28.44	0.1657	0.513	-1.83	213.7	15.37	0.00086	0.000042
0.157	27.91	0,1559	0.894	-2.12	128.4	17.91	0.000068	0.318	29.33	ú.1941	0.947	-1.23	244.4	15.58	0+00064	0.000034
0.182	28.72	0.1807	0,920	-1.60	148.8	18.42	0.000057	0.373	30.24	6.2277	0,571	-0.60	286.7	2C. 60	0.00041	0.000023
C.207	29.45	0.2055	0. 944	-1.13	169.2	18.89	0.000046	0.423	30.83	0.2582	0.590	-0.21	325.1	21.00	0.00027	0.000015
0.247	30.32	0.2451	0.571	-0.57	201.8	15.45	0.000030	0.473	31.06	0.2687	6.425	-0.75	363.5	21.16	0.00015	0.000009
0.287	30.90	0.2848	0.990	-0.20	234.5	19.82	0.000018	0.523	31.14	0.3192	1.000	0.01	402.0	21.22	0.00008	0.000003
0.332	31.16	n.3294	0.95B	-0.04	271•2	15.59	0.00008	0.598	31.15	0.3650	1.001	0.01	459.6	21.22	0.00000	-0,000002
0.382	31.22	0.3789	1.000	0.01	312.0	20.03	0.000001	0.673	31.13	0.4108	1.000	9.00	517.2	21.21	0.00000	0.000000
0.432	31.21	0.4285	1.000	0.00	352.8	20.0Z	0.00000									

RUN:	120771-	1 X=22	• Z•	c.					RUNI	1 20771-	1 X=34	• Z•	e.				
UI - CF/2- K -	31.14 0.0020 0.0000 0.926	72 50 E-09	01 - 02 - 0C - 099 -	C.1135 D.C768 2.5260 D.6242	85 T 8 7+ V0+		L PO D H DO G DO G	2 = 1251. = 1.476 = 7.201	UI = CF/2= F = K =	31.05 0.001 0.000 0.563	90 00 E-09	D1 = D2 = DC = D55 =	0.1412 0.0977 3.2389 0.7854	8ET 8 9+ V0+	A=-C.001 = C.000 =-0.000 = 0.000	RD) 7 .H 90 G 90	2 = 1588. = 1.446 = 7.069
۲	U	Y/DC	U/UI	(0-01)/0	j ≄ γ +	U+	TAL	TAULAM	Y	U	¥/0C	C/UI	(1-01)/(• Y+	U •	T AU	TAULAN
0.005	4.74	0.0020	0.152	-18.87	3.7	3.39	0.00202	0.001489	0.006	5.15	0.0017	0.166	-19,13	4.0	3.80	0.00190	0.001521
0.006	4.94	0.0024	0.159	-18.73	4.4	3.53	0.00202	0.001416	0.007	5.76	0.0020	0.185	-18,68	4,7	4.25	0-00190	0.001445
0.007	5.57	0.0028	0.179	-18.28	5.1	3.98	0.00202	0.001342	0.008	6.31	0.0023	0.203	-18+55	5.4	4.66	0.00190	0.001365
0.008	6.28	0.7032	0.202	-17.77	5.9	4.49	0.00202	0.001334	0.009	6.88	0+[027	0,222	-17.85	6.1	5.C8	0*00140	0.001267
0.009	6.90	0.0036	0.224	-17.29	0.0	4.98	0.00202	J.001453	0.010	7.64	0.(037	2+246	-17.29	6.8	5.64	0.00140	ů. 601 307
0.011	8.32	0.0044	0.267	-16.32	8.1	5.95	0.00202	0.001397	0.012	8.98	0.0036	0.289	-16.30	8.2	6.63	0.00190	C. 0CL 240
0.013	9.96	0.0051	0.320	-15.14	s. 5	7.12	0.00202	0.001266	0.014	10.14	0.004Z	0.327	-15.45	9.6	7.49	0.00140	0.001111
0.015	11.21	0.0059	0,360	-14,25	11.0	8.01	0.00201	0.061129	0.016	11,29	0.0048	0.364	-14.59	11.1	E. 34	0.00190	0.000975
0.017	12.38	0.0067	C. 398	-13.41	12.4	8.85	0.00201	0.000990	0.019	12.81	U. CC57	C.413	-13.47	13.2	9.46	0.00190	0.000797
0.019	13,22	0,0075	0.425	-12.81	13.9	9,45	0.00201	0.000843	0.022	13+BQ	0.(067	0.444	-12.74	15.3	10.19	0.00190	0.000641
0+022	14.48	0.0087	0.465	-11.91	16.1	10.35	0.00201	0.000662	0.025	14.79	0.0076	0.476	-12,01	17.4	10.93	0.00189	0.000519
0.025	15,38	0.0099	0.494	-11.27	18.3	11.00	0.00201	0.000525	0.029	15.62	0.0088	0.503	-11,39	20.3	11.54	0.00189	0.006407
0.028	16.14	0.0111	0,518	-10.72	20.5	11.54	0.00201	0.000435	0.037	16.32	0.0101	0.526	-10.88	23.1	12.05	0.00189	0.000333
0.032	16.74	0.0127	0.538	-10.29	23.4	11.97	0.0200	0.000336	0.038	17.08	C.0116	0.550	-10.31	26.E	12.62	0.00188	0.000261
0.037	17.52	0.0146	0,563	-9.73	27.1	12.53	0.00200	0.00.265	0,046	18.05	0.0141	0.562	-9.59	32.3	13.34	0.00168	0.000194
0.043	18.30	0.0170	0.588	- 5.18	31.5	13.08	0.00199	0.000209	0.056	18.87	0.0172	0.608	-9.00	39.4	13.54	0.00187	0.000143
0.051	18.98	0.0202	0.609	-8.69	37.3	13.57	0.00198	0.000165	0.071	19.60	0.0218	0.631	-8.46	50.0	14.40	0.00185	0.000101
0.061	19.75	0.0241	0.634	-8,14	44.7	14.12	0.00197	0.000127	0.(91	20.45	0.0280	0.659	-7.83	64.Z	15.11	0.00183	0.000675
0.076	20.46	0.0301	0.657	-7.63	55.6	14.63	0.00194	0.000096	0.121	21.35	0.0372	856.0	-7.16	85.5	15.77	0.00180	0.000056
0.076	21.32	0.0380	0.665	-7.02	70.3	15.24	0.00191	9.000676	0.161	22.40	0.0496	0.721	-6.39	113.8	16.54	0.00174	0.000047
0.116	22.02	0.0459	C. 7C 7	-6.52	84.9	15.74	0.00187	0.00004 5	0.201	23.28	0.0619	0.750	-5.74	142.2	17.20	0.00168	0.000041
0.141	22.75	0.0558	0.731	-6.00	103.2	16.27	0.00181	0.000057	0.241	24.01	0.0743	0.773	-5.20	170.5	17.74	0.00161	4.000038
0.171	23.52	0.0677	6.755	-5.45	125.2	16.82	0.00174	J.000051	0.291	24.90	0.0897	0.802	-4.54	205.9	15.40	0.00151	0.000034
0.206	24.40	0.0816	0.784	-4.82	150.8	17.45	0.00164	0.000047	0.341	25.75	0.1052	0.829	-3.91	241.4	19.02	0.00139	0.000032
0.256	25.48	0.1013	0.818	-4.04	187.5	18.22	0.00147	0.000042	0.391	26.54	0.1206	0.855	-3.33	276.8	19.61	0.00126	0.000030
0.306	26.50	0.1211	0.851	-3, 31	224 . I	18.55	0.00128	0.000035	0.441	27.24	0.1360	0.877	-2.81	312-3	20.12	0.00112	0.000028
0.356	27.52	0.1409	0.884	-2.59	260.7	19.68	0.00108	0.000035	0.491	27.98	0.1515	0.901	-2.27	347.7	20.67	0.00297	0.000025
0.406	28.36	0.1607	0.911	-1.59	297.3	20.28	0.00087	0.000030	0.566	28.89	0,1746	0.931	-1.59	400.8	21.34	0.00074	0-000021
0.456	29.15	0.1805	0.936	-1.42	333.9	20.84	0.00067	0.000026	0.641	29.69	0.1578	0.956	-1.00	454.0	21.94	0.00852	0.000017
0.531	30.12	0.2102	0,968	-0.72	368.8	21.54	0.00042	0.000018	0.716	30.14	0.2209	0.971	-0.67	507.1	22.26	0.00832	0.000012
0.606	30.75	0.2399	0.988	-0.28	443.7	21.59	0.00023	0.000011	0.791	30.78	C. 2441	0.551	-0.20	560.3	22. 74	0.00819	0.000008
0.681	31.05	0.2696	0.997	-0.06	498.6	22.20	0.00009	0.00006	0.891	31.00	0.2750	0.999	-0.03	631.2	22.50	0.00806	0.000604
0.756	31.14	0.2993	1.000	0.00	553.6	22.27	0.00000	0.000002	0.591	31.05	0.3058	1.000	C. 00	702.0	22.94	0.00408	0.000001
0.856	31.14	0.3389	1-000	0.00	626.8	22.26	0.00000	0.000000	1.(91	31.05	0.3367	1.000	0.00	772.9	27.54	0.00006	0.000000

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E1 - 1 - 1 - 1 - 1

UI CF/2= F K	31.04 0.00181 0.00000 0.138E-	1 D - 0 9	D1 = 0 D2 = 0 CC = 0 D99 = 0	0.1709 0.1185 4.0149 0.9590	887 A 8 P+ VQ+	=-0.000 = 0.000 =-0.000 = 0.000	RD2 H 10 G	= 1926. = 1.442 = 7.199	UI = CF/2= F = K =	31.13 0.0017 0.0000 -0.3518	4 0 -09	01 = 0 02 = 0 0C = 0 099 = 1	0.1968 0.1375 4.7124 1.1065	BET/ B P+ 70+	- 0.001 - 0.000 - 0.000	RD3 H H0 G	= 2240. = 1.432 = 7.219
Y	U	¥70C	1.701	(L-UT)/0	* Y.	U+	T AU	T AUL AN	¥	U	Y/DC	U/UT	{U-UT }/0	• Y+	U+	TAL	TAULAN
0.005 0.006 0.007 0.008 0.008	4.01 4.57 5.27 6.04 6.62	0.0012 0.0015 0.0017 0.0020 0.0022	0.129 0.147 0.170 0.155 0.213	-20.46 -20.04 -19.51 -18.92 -18.48	3.5 4.1 4.8 5.5 6.2	3.03 3.46 3.59 4.58 5.01	0.00181 0.00181 0.00181 0.00181 0.00181	0.001456 0.001424 0.001393 0.001355 0.001351	0.005 0.006 0.007 0.008 0.009	3,72 3,96 4,37 5,04 5,56	0.0011 0.0013 0.0015 0.0015 0.0017 0.0017	0.120 0.127 0.140 0.162 0.179	-21.08 -20.90 -20.58 -20.07 -19.67	3.4 4.1 4.8 5.4 6.1	2.86 3.04 3.36 3.88 4.28	0.00174 0.00174 0.00174 0.00174 0.00174	0.001234 0.001214 0.001195 0.001182 0.001289
0.011 0.013 0.015 0.015 0.018 0.021	8.06 9.18 10.34 11.71 12.84	0.0027 0.0032 0.0037 0.0045 0.0052	0.260 0.296 0.333 0.377 0.414	-17.40 -16.55 -15.67 -14.63 -13.78	7.6 9.0 10.4 12.4 14.5	6.10 6.95 7.82 8.86 9.72	0.00181 0.00181 0.00181 0.00181 0.00181	0.001228 0.001092 0.000973 0.000750 0.000658	U.011 0.013 0.015 0.017 0.017	7.10 8.24 9.45 10.67 11.85	0.0023 0.0028 0.0032 0.0032 0.0036 0.0040	0.228 0.265 0.303 0.343 0.381	-18.48 -17.60 -16.68 -15.74 -14.83	7.5 8.8 10.2 11.6 12.9	5.46 6.34 7.27 8.20 5.12	0.00174 0.00174 0.00174 0.00174 0.00174	0.001276 0.001221 0.001121 0.000990 0.000890
0.024 0.028 0.033 0.039 0.039	13.79 14.64 15.75 16.58 17.35	0.0060 0.0070 0.0082 C.C097 0.0117	0.444 0.472 0.507 0.534 0.559	-13.04 -12.41 -11.57 -10.94 -10.36	16.6 19.4 22.8 27.0 32.5	10.44 11.09 11.92 12.55 13.13	0.00180 0.00180 0.00180 0.00180 0.00180 0.00179	0.000544 0.000429 0.000328 0.000250 0.000186	0.021 0.023 0.026 0.029 0.033	12.56 13.19 14.21 14.77 15.36	0.0045 0.0045 0.0055 0.0055 0.0052 0.0070	0.404 0.424 0.457 0.475 0.494	-14.28 -13.80 -13.01 -12.58 -12.13	14.3 15.7 17.7 19.7 22.5	9.66 10.15 10.53 11.37 11.82	0.00174 0.00174 0.00174 0.00174 0.00174	0.000759 0.006622 0.000485 0.000469 0.000329
0.059 0.074 0.094 0.119 0.149	18.23 19.08 19.88 20.56 21.30	D.0147 0.0184 0.0234 0.0296 0.0371	0.587 0.615 0.640 0.663 0.686	-9.69 -9.05 -8.45 -7.93 -7.37	40.8 51.2 65.0 82.3 103.1	13.80 14.44 15.05 15.57 16.13	0.00179 0.00178 0.00176 0.00174 0.00171	0.000128 0.000094 C.000073 0.000058 0.000058	0.037 0.042 0.047 0.056 0.066	16.07 16.76 17.22 17.80 18.50	0.0079 0.0089 0.0100 0.0119 0.0140	0.516 0.538 0.553 0.572 0.594	-11.59 -11.06 -10.70 -10.25 -9.72	25.2 28.6 32.0 38.1 44.9	12.36 12.89 13.25 13.69 14.23	0.00173 0.00173 0.00173 0.00173 0.00173	0.000262 0.000219 0.000186 0.000136 0.000105
0.199 0.249 0.299 0.349 0.399	22.44 23.32 24.14 24.85 25.53	0.0496 0.0620 0.0745 0.0869 0.0954	0.723 0.751 0.778 0.801 0.823	-6.51 -5.84 -5.22 -4.69 -4.17	137.6 172.2 206.8 241.4 276.0	16.59 17.65 18.28 18.41 19.33	0.00166 0.00159 0.00152 0.00143 0.00134	0.000039 0.000034 0.000031 0.000028 0.000027	0.081 0.106 0.131 0.181 0.231	19.17 19.98 20.61 21.66 22.49	0.0172 0.0225 0.0278 0.0384 0.0490	D.616 C.642 C.662 D.656 C.722	-9.20 -8.57 -8.09 -7.28 -6.65	55.1 72.1 89.2 123.2 157.2	14.75 15.37 15.85 16.66 17.30	0.00171 0.00170 0.00148 0.00144 0.00159	0.000081 0.000060 0.000049 0.000038 0.000038
0.474 D.549 D.624 0.699 0.799	26.51 27.41 28.22 28.94 29.81	0.1181 0.1367 0.1554 0.1741 0.1990	0.854 0.683 0.909 0.932 0.960	-3.43 -2.75 -2.14 -1.59 -7.93	327.8 379.7 431.6 483.5 552.6	20.07 20.75 21.36 21.90 22.57	0.00118 0.00101 0.00082 0.00064 0.00041	9.000024 0.000022 0.000020 0.000020 0.000017 0.000013	0.281 0.331 0.406 0.481 0.581	23.30 23.99 24.95 25.83 26.91	0.0596 0.0702 0.0862 0.1021 0.1233	0.749 C.771 0.801 0.830 C.84	-6.02 -5.49 -4.75 -4.07 -3.25	191.3 225.3 276.3 327.4 395.5	17.93 18.45 15.19 19.87 20.70	0.00154 0.00148 0.00138 0.00127 0.00110	0.000029 0.000027 0.006025 0.006022 0.000022 0.000026
0.899 0.999 I.099 1.199 1.299	30.51 30.88 31.03 31.06 31.07	0.2239 0.2488 0.2737 0.2986 0.3235	0.983 0.995 1.007 1.001 1.001	-0.40 -0.12 -0.01 0.02 0.02	621.8 691.0 760.1 829.3 898.5	23.09 23.37 23.49 23.51 23.52	0.00022 0.00009 0.00002 0.00000 0.00000	0.00L009 0.000005 0.000003 0.000001 -0.000001	0.681 0.806 0.956 1.106 1.306	27.94 28.98 30.13 30.82 31.14	0.1445 0.1710 0.2029 0.2347 0.2771	0.897 C.931 C.568 D.990 1.000	-2.46 -1.65 -0.77 -9.24 0.01	463,5 548,6 650,7 752,8 888,9	21.49 22.29 23.17 23.70 23.95	0.00092 0.00067 0.00039 0.000317 0.00003	0.000017 0.000014 0.000069 0.000069 0.00006
1.424	31.04	0.3547	1.000	0.00	584.9	23.50	0.00000	0.00000	1.506	31.15 31.13	0.3156 0.3620	1.001	0.01 0.07	1025.1	23.96 23.94	0.00000	0.000000
									BIN+ 1	20771-1	¥=87.	7. 6	1.				
UI = CF/2= F = K =	31.04 0.00168 0.0000 -0.902E-4	09	D1 = 0 C2 = 0 DC = 5 C99 = 1	• 2255 • 1584 • 4933 • 2755	BE TA B P+ ¥0+	0.000 0.000 0.000	RD2 H G	= 2574. = 1.424 = 7.249	UI = CF/2= F = K =	31.07 0.0016 0.000 -0.152E	3 C -C8	D1 = 0 D2 = 0 DC = 0 C99 = 1	0.2533 0.1794 5.2686 1.4808	8E TA 8 P+ V0+	= 0.004 = 0.000 = 0.000 = 0.000	RD2 H 0 G 0	= 2919. = 1.412 = 7.218
Y	U	¥/00	0701	(U-UI)/U*	¥+	U+	TĂL	TAULAM	¥	U	Y/DC	U/UI	(0-01)70	• ••	U+	TAU	TAULAM
0.005 0.005 0.007 0.008 0.009	4.14 4.19 4.75 5.45 6.48	0.0009 0.0011 0.0013 0.0015 0.0015	0.133 0.135 0.153 0.176 0.209	-21.11 -21.58 -20.63 -20.79 -19.27	3.3 4.0 4.7 5.3 6.0	3.25 3.29 3.73 4.28 5.09	0.05168 0.05168 0.05168 0.05168 0.05168	0.001389 0.001384 0.001380 0.001350 0.001350 0.001458	0.005 0.016 0.017 0.018 0.008	3.79 4.15 4.69 5.11 5.83	0.0008 0.0010 0.0011 0.0013 0.0014	0.127 0.134 0.151 0.164 0.168	-21.73 -21.44 -21.01 -27.68 -20.11	3.3 3.9 4.6 5.3 5.5	3.02 3.31 3.74 4.07 4.64	0.00163 0.00163 0.00163 0.00163 0.00163	0.001244 0.001185 0.001127 0.001102 0.001102
0.011 0.013 0.015 0.017 0.017	7.89 9.10 10.26 11.05 11.73	0.0020 0.0024 0.0024 0.0031 0.0031 0.0035	0.254 0.293 0.330 0.356 0.378	-18.17 -17.22 -16.32 -15.69 -15.16	7.3 8.7 1 C. C 1 1.3 1 2.7	6.19 7.14 8.05 8.68 9.21	0.00168 0.00168 0.00168 0.00168 0.00168 0.00168	0.001369 0.001092 0.000969 0.000780 0.000780	0.011 0.013 0.015 0.017 0.020	6.88 8.09 9.22 10.15 11.42	0.0018 0.0021 0.0024 0.0027 0.0032	0.272 0.260 0.297 0.327 0.367	-15.27 -18.31 -17.40 -16.66 -15.66	7.2 8.5 9.9 11.2 13.1	5.48 6.44 7.35 8.09 9.09	0.00163 0.00163 0.00163 0.00163 0.00163	0.001131 0.001058 0.000965 0.000888 0.000730
0.022 0.025 0.029 0.033 0.038	12.66 13.45 14.17 15.04 15.86	0.0040 0.0046 0.0053 0.0053 0.0060 0.0069	0.4CB 0.433 0.456 4.484 0.511	-14.43 -13.81 -13.24 -12.56 -11.92	14.7 16.7 19.3 22.0 25.4	9.94 10.55 11.12 11.80 12.44	0.02168 0.02168 0.02168 0.02167 0.02167	0.000543 0.000472 0.000394 0.000318 0.000255	0.023 0.026 0.030 0.036 0.041	12.49 13.41 14.17 15.30 15.92	0.0037 0.0041 0.0057 0.0057 0.0055	0.402 C.432 C.456 0.492 0.512	-14.8C -14.07 -13.46 -12.56 -12.07	15.1 17.1 19.7 23.7 27.0	9.55 10.68 11.29 12.19 12.68	0.00163 0.00163 0.00163 0.00163 0.00163	0.000404 0.000505 0.000403 0.000295 0.000235
0.043 0.053 0.063 0.078 0.103	16.43 17.06 17.77 18.52 19.14	0.0078 0.0096 0.0115 0.0142 0.0148	0.529 C.550 C.572 C.597 C.597 C.617	-11.47 -10.97 -10.42 -9.93 -9.34	28.7 35.4 42.0 52.0 68.7	12.50 13.39 13.54 14.54 15.02	0.00167 0.00167 0.00166 0.00166 0.00165	0.000211 0.000142 0.000106 0.000081 0.000061	0.046 0.056 0.071 0.096 0.121	16.53 17.28 18.10 18.99 19.65	0.0073 0.0089 0.0113 0.0153 0.0193	0.532 0.556 0.563 0.611 0.632	-11.59 -10.98 -10.33 -9.62 -9.10	30.2 36.8 46.7 63.1 79.5	13.16 13.77 14.42 15.13 15.65	0.00163 0.00162 0.00162 0.00161 0.00161	0.000197 0.000138 0.000095 0.000062 0.000050
0.128 0.178 0.229 0.303 0.378	19.90 20.57 21.84 22.93 23.92	0.0233 0.0324 0.0415 0.0552 0.0552	C. 641 0. 675 n. 703 0. 739 0. 771	-8.75 -7.91 -7.22 -6.37 -5.59	85.4 118.7 152.1 202.1 252.2	15.61 16.46 17.14 18.CO 18.77	0+00164 0+00161 0+00157 0+00157 0+00152 0+001452	0.000049 0.000035 0.000033 0.000027 0.000024	0.146 0.196 0.246 0.321 0.396	20.21 20.96 21.96 22.72 23.64	0.0233 0.0313 0.0352 0.0512 0.0512 0.0632	0.650 0.675 0.707 0.731 0.761	-8.65 -8.05 -7.26 -6.65 -5.92	96.0 128.8 161.7 211.0 260.3	16.10 15.69 17.49 18.10 18.83	0.00160 0.00159 0.09156 0.00152 0.00147	0.000041 0.000033 0.000028 0.000024 0.000022

RUN: 120771-1 X=58. Z= 0.

0.000019 0.000018 0.000016 0.000014 0.000011

-5.18 326.0 19.57 0.00140 -4.38 391.8 20.37 0.00133 -3.68 457.5 21.07 0.00133 -2.77 55.61 21.98 0.00103 -1.55 654.7 22.60 0.00101

1.146 29.56 0.1828 0.951 -1.20 753.3 23.55 0.00039 0.000009 1.346 30.44 0.2147 0.980 -0.50 884.8 24.25 0.00032 0.000000 1.546 30.91 0.2466 0.555 -1.613 10162.246.2 0.00014 0.000003 1.796 31.64 0.2865 1.000 -0.01 1180.6 24.74 0.00008 0.000010 2.070 31.07 0.3344 1.000 0.077 1377.8 24.75 0.000000

RUN: 120771-1 X=46, Z= C.

0.453 24.66 0.0225 0.754 0.553 25.78 0.1007 0.830 0.653 26.74 0.1189 0.862 0.753 27.59 0.1371 0.889 0.853 28.37 0.1553 0.914

1.003 29.49 0.1826 0.950 1.153 30.29 0.2059 0.576 1.303 30.83 0.2372 0.993 1.503 31.65 0.2372 0.993 1.503 31.65 0.2136 1.000

1.878 31.04 0.3419 1.000

112

0.05137 0.00125 0.00112 0.00097 0.00881

-5.01 302.2 19.35 -4.13 368.9 20.23 -3.37 435.6 20.99 -2.71 502.3 21.65 -2.10 569.1 22.27

-1.22 669.1 23.14 0.00057 -C.59 769.2 23.77 0.00035 -0.16 869.3 24.20 0.00035 C.C1 1022.7 24.37 0.00005 0.73 1136.1 24.39 0.00000

0.00 1252.9 24.36 0.00000 0.000000

0.000022 0.000020 0.000018 0.000016 0.000014

0.000611 0.000007 0.000005 0.000002 -0.000002

0.496 24.57 0.0791 0.791 0.596 25.58 0.0551 C.823 0.696 25.66 0.1110 0.851 0.846 27.60 0.1355 C.888 0.996 28.63 0.1589 0.921

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	x= 2. ₹= 0.	RUN: 100571-1 X= ;			X=90. Z= 0.	120771-1 X=9	RUN: 1
Y U Y/DC U/UI (U-UI)/U* Y* U* TAULAR Y U Y/DC U/UI IU-UI/I/U* Y* U* TAULAR Y U Y/DC U/UI IU-UI/I/U* Y* U* TAULAR 0.007 4.455 0.0010 0.159 -20.56 4.4 1.57 0.001215 0.0028 0.01275 0.0067 0.206 -17.05 3.9 4.42 0.0027 0.001 6.58 0.0015 0.212 -19.65 6.4 5.28 0.001275 0.0067 10.0056 0.226 -16.39 4.6 5.67 0.0011 0.001 0.226 -15.37 4.45 0.0021 0.0067 0.0121 0.0067 0.0214 0.0226 -15.27 5.4 5.54 0.0014 0.0111 7.20 0.0014 0.0121 0.008 8.93 0.00274 0.228 -15.27 5.4 5.54 0.0014 0.0114 0.0127 0.0014 0.0124 0.0104 0.0124	D1 = 0.0524 BETA=-0.002 PD2 = 525. D2 = 0.0334 B = 0.475 H = 1.570 DC = 1.1252 P + -0.0000 G = 7.795 18 D99 = 0.2946 V0+ 0.0221	UI = 30.95 CF/2= 0.00217 F = 0.00103 K = 0.489E-08	RD2 - 3093. H = 1.404 G = 7.169	570 BE TA= 0.005 502 B = 0.000 566 P+ = 0.0000 10 V0+ = 0.0000	01 = 0.2670 D2 = 0.1902 DC = 6.6566 D99 = 1.5810	= 31.06 = 0.00161 = 0.00000 = -0.196E-08	U1 - CF/2- F - K -
0.007 4.45 0.0010 0.159 -20.56 4.4 2.67 0.001316 0.004 5.39 0.0038 0.174 -17.72 3.2 3.74 0.002 0.008 5.42 6.0012 0.174 -10.72 3.2 3.74 0.002 0.008 5.42 6.0012 0.174 -10.72 3.2 3.74 0.002 0.008 5.42 6.0017 6.017 0.0047 0.2047 0.2064 -17.72 3.2 3.74 0.002 0.008 5.42 0.0017 0.17 0.0067 0.2064 0.236 -16.33 4.42 0.0021 0.011 0.621 0.461 0.0017 0.0067 0.2065 0.236 -16.33 4.42 0.0017 0.011 0.621 0.621 0.615 0.617 0.0117 0.0065 0.236 -15.75 0.001 0.012 0.0168 0.223 -16.87 9.0 7.28 0.001168 0.012 0.008 <	Y/DC U/UT TU-UT)/U+ Y+ U+ TAULAH	Y U Y/DC	TAULAH	-UI}/U# ¥+ U+	4/DC U/UI {U+UI}/U+	U ¥/00	Ŷ
0.003 5.42 6.0012 0.1074 -20.58 5.1 4.35 0.001295 0.005 6.37 0.0047 0.2064 0.206 -17.05 3.9 4.42 0.0027 0.005 6.07 0.0015 0.212 -19.05 5.7 4.88 0.001275 0.006 7.31 0.005 0.234 -16.39 4.65 5.67 0.001 0.010 6.58 0.0015 0.212 -19.65 6.4 5.28 0.001217 0.007 7.94 0.0065 0.236 -15.92 5.4 5.55 0.0011 0.011 7.20 0.0018 0.229 -17.65 9.0 7.28 0.001166 0.012 11.0 0.0109 0.385 -15.20 9.0 8.26 0.0011 0.011 9.07 0.0021 0.329 -17.65 9.0 7.28 0.001247 0.012 0.0129 0.339 -15.20 9.0 8.26 0.0013 0.012 0.90 0.022 0.335	.0038 0.174 -17.72 3.2 3.74 0.002193	0.004 5.39 0.003	0.061316	0.56 4.4 3.57	0.0010 0.159 -20.56	7 4.95 0.001	0.007
0.009 6.67 0.0013 0.166 -20.65 5.7 4.88 0.001275 0.006 7.31 0.0056 0.236 -16.39 4.6 5.67 0.001 0.010 6.58 0.0015 0.212 -16.45 5.74 4.88 0.001275 0.007 7.99 0.0056 0.236 -16.39 4.6 5.54 0.001 0.011 7.20 0.0016 0.232 -16.15 7.0 5.78 0.001112 0.008 8.93 0.0074 6.236 -15.72 6.1 6.1 6.1001 0.011 7.20 0.0018 0.243 -18.37 7.7 6.36 0.001166 3.010 10.49 0.0020 0.339 -14.19 7.5 7.28 0.0011 0.014 9.07 0.6024 0.339 -14.19 7.5 7.28 0.0011 0.014 9.49 0.6024 0.332 -14.61 10.53 0.00137 0.0121 13.10 0.017 0.435 -15.37	1.0047 0.206 -17.05 3.9 4.42 0.002047	0.005 6.37 0.004	0.001295	0.58 5.1 4.35	0.0012 0.174 -20.58	8 5.42 0.001	0.008
0.010 6.58 0.0015 0.212 -19.65 6.4 5.28 0.001217 0.007 7.99 0.0065 0.238 -15.92 >.4 5.28 0.0011 0.011 7.20 0.0016 0.221 -16.15 7.0 5.78 0.00112 0.008 8.93 0.0045 0.238 -15.92 >.4 5.28 0.00114 0.012 8.17 0.0018 0.228 -16.15 7.0 5.78 0.001168 0.008 8.93 0.0045 0.238 -13.20 9.0 8.26 0.0011 0.014 9.07 0.0021 0.322 -17.65 9.0 7.28 0.001467 0.014 14.01 0.0127 0.105 0.245 -12.37 0.1 0.0011 0.018 11.03 0.6072 0.335 -16.68 11.6 8.65 0.00056 0.016 14.31 0.0145 0.425 12.37 11.9 9.44 0.0013 0.0201 12.54 0.0305 0.00056	.0056 0.236 -16.39 4.6 5.C7 U.001901	0.006 7.31 0.005	0.001275	0.05 5.7 4.88	0.0013 0.196 -20.05	9 6.07 0.001	0.009
D.011 7.20 0.0011 0.232 -1.4.15 1.0 5.18 D.001112 0.0014 5.43 0.014 C.232 -1.5.7 0.1 0.00154 0.1 0.1 0.000557 0.016 1.1.3 0.0143 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 0.1.43 <th0.1.43< th=""> <th0.1.43< th=""> <th0.1.43<< td=""><td></td><td>0.007 7.99 0.006</td><td>0.001217</td><td>9.65 6.4 5.28</td><td>0.0015 0.212 -19.65</td><td>0 6.58 0.001</td><td>0.010</td></th0.1.43<<></th0.1.43<></th0.1.43<>		0.007 7.99 0.006	0.001217	9.65 6.4 5.28	0.0015 0.212 -19.65	0 6.58 0.001	0.010
0.012 8.17 0.0018 0.243 -18.37 7.7 6.56 0.001168 0.010 10.49 0.0022 0.339 -14.19 7.5 7.28 0.001 0.014 9.07 0.0021 0.292 -17.65 9.0 7.28 0.00134 0.012 11.41 0.0109 0.385 -13.29 9.0 8.26 0.001 0.018 11.03 0.022 -17.65 9.0 7.28 0.00034 0.012 11.41 0.0127 0.455 -13.29 9.0 8.26 0.0011 0.018 11.03 0.6027 0.335 -14.68 11.6 8.25 0.00056 0.016 14.31 0.0145 0.453 -11.53 11.9 9.44 0.001 0.6020 11.29 0.6035 0.501 0.613 15.19 0.613 11.49 10.33 0.00056 0.6021 12.47 0.6034 0.400 0.60054 0.0201 16.07 0.0180 0.519 -10.32 14.9 <td></td> <td>0.008 8.93 0.007</td> <td>0.001212</td> <td>9.15 7.0 5.78</td> <td>0.0016 0.232 -19.15</td> <td>1 7.20 0.001</td> <td>0.011</td>		0.008 8.93 0.007	0.001212	9.15 7.0 5.78	0.0016 0.232 -19.15	1 7.20 0.001	0.011
0.014 0.07 0.0021 0.202 -17.65 0.0 7.28 0.001034 0.012 11.01 0.0109 0.385 -13.20 9.0 8.26 0.0011 0.014 0.00 0.022 11.01 0.0109 0.385 -13.20 9.0 8.26 0.0011 0.018 11.03 0.027 0.355 -16.68 11.4 8.15 0.000367 0.014 3.14 0.0127 0.425 -12.35 10.5 9.44 0.0011 0.018 11.03 0.0034 0.425 -12.35 10.5 9.44 0.0011 0.021 12.47 0.0034 0.425 -12.37 11.4 0.433 0.0145 0.443 -10.433 11.4 0.433 0.0001 0.022 12.47 0.0034 0.425 -14.34 10.43 0.001 0.000542 0.0201 0.618 0.519 -10.32 14.4 11.45 0.0001 0.023 12.44 16.659 0.000542 0.020	1.0097 0.339 -14.19 7.5 7.28 0.001496	0.010 10.49 0.009	0.001168	8.37 7.7 4.56	A-AA18 A-243 -18-37	2 6.17 0.001	0 01 7
0.011 0.024 0.322 -14.01 10.3 8.02 0.003647 0.014 13.14 0.0127 0.427	1.0109 0.385 -13.20 9.0 8.26 0.001323	0.012 11.91 0.010	0.001034	7.65 9.0 7.28	0.0021 0.292 -17.65	4 9.07 0.002	0.014
1.018 1.03 0.4027 0.355 -16.68 11.6 4.85 0.000727 0.016 14.33 0.0145 0.463 -11.53 11.9 9.94 0.001 0.020 11.59 0.0034 0.462 11.68 0.018 15.19 0.0145 0.461 -10.53 11.9 9.94 0.001 0.020 11.59 0.0034 0.462 0.018 15.19 0.0145 0.441 -10.32 14.4 10.43 0.0001 0.023 12.47 0.0034 0.4625 -10.021 16.07 0.018 0.519 -10.32 14.4 11.14 0.0001 0.023 12.47 0.0034 0.425 -14.34 16.8 10.59 0.0001 0.0201 0.519 -10.32 14.4 11.14 0.0001 0.023 12.41 10.59 0.00054 0.0221 16.94 0.0207 0.574 -9.51 12.41 0.0005 0.033 14.42 0.0055 0.455 0.	J.0127 0.425 -12.35 10.5 9.11 0.001159	0.014 13.14 0.012	0.000867	6.91 10.3 8.02	0.0024 0.322 -16.91	6 9.99 0.002	0.016
0.020 11.59 0.0030 0.401 -10.43 13.4 10.53 0.0001 0.023 12.47 0.0034 0.402 -14.92 14.9 10.01 0.000542 0.023 16.07 0.0180 0.519 -10.42 14.9 11.14 0.0001 0.023 12.47 0.0034 0.462 -14.92 14.9 10.01 0.000542 0.023 16.07 0.0180 0.519 -10.32 14.9 11.14 0.0001 0.023 12.47 0.0203 0.423 -14.34 16.83 0.0001 0.023 16.94 0.027 0.517 -9.71 17.1 11.75 0.0003 0.033 14.12 0.0053 0.457 0.450 0.0224 0.578 -9.05 19.3 12.41 0.0003 0.033 14.42 0.0453 0.4031 0.024 0.024 0.578 -9.05 19.3 12.41 0.0044 0.033 15.85 0.0057 0.502 0.627 -	J.0145 0.463 -11.53 11.9 9.94 0.001002	0.016 14.33 0.014	0.060727	6.08 11.6 8.85	0.0027 0.355 -16.08	8 11.03 0.002	0.010
0.023 12.47 0.0034 0.402 -14.92 14.9 10.01 0.000542 0.020 16.07 0.0180 0.519 -10.32 14.9 11.14 0.000; 0.026 13.19 0.0039 0.425 -14.34 16.8 10.59 0.000464 0.023 16.94 0.0207 0.547 -9.71 17.1 11.75 0.0004 0.030 14.12 0.0045 0.455 -13.60 19.4 11.33 0.000314 0.026 17.0 0.0234 0.578 -9.05 19.3 12.41 0.000 0.031 14.82 0.0051 0.477 -13.04 22.0 11.89 0.000314 0.026 17.00 0.0230 0.617 -8.56 21.5 12.90 0.0004 0.033 14.82 0.0051 0.477 -13.04 12.3 0.000464 0.000314 0.029 0.626 1.601 -8.56 21.5 12.90 0.0004	/.0163 0.491 -10.93 13.4 10.53 0.000878	0.018 15.19 0.016	0.000656	5.63 12.9 9.30	0.0030 0.373 -15.63	0 11.59 0.003	0.020
0.023 12.47 0.0034 0.402 -14.92 14.9 10.01 0.00094 0.023 16.07 0.0160 0.016 0.016 -10.21 14.7 11.75 0.000 0.026 13.19 0.0239 0.425 -14.34 16.8 10.59 0.00064 0.023 16.49 0.0207 0.547 -9.71 17.1 11.75 0.000 0.030 14.12 0.0045 0.455 -13.60 19.4 11.33 0.00031 0.026 17.90 0.0234 0.578 -9.05 19.3 12.41 0.000 0.034 14.82 0.0055 0.477 -13.04 22.0 11.89 0.000314 0.029 18.60 0.0260 0.601 -9.56 21.5 12.90 0.0003 0.034 14.82 0.0057 0.507 -12.42 24.7 12.51 0.00028 0.033 19.41 0.0256 0.627 -8.00 24.4 13.46 0.0003	0.000767		0.000543				
0.020 15.19 0.025 0.455 - 13.60 19.4 10.35 0.0001 0.025 17.90 0.0254 0.578 - 9.05 19.3 12.41 0.000 0.033 14.82 0.0051 0.477 - 13.60 19.4 11.33 0.000314 0.026 17.90 0.0224 0.578 - 9.05 19.3 12.41 0.000 0.034 14.82 0.0051 0.477 - 13.60 19.4 21.0 11.88 0.000314 0.026 19.60 0.0226 0.601 - 9.56 21.5 12.90 0.0004	0.000629	0.020 18.07 0.018	0.000542			3 12.47 0.003	0.023
0.034 14.62 0.0051 0.477 -13.04 22.0 11.89 0.000314 0.024 18.60 0.0260 1.601 -8.56 21.5 12.90 0.000 0.038 14.62 0.0057 0.502 -12.42 24.7 12.51 0.000268 0.033 19.41 0.0296 0.627 -8.00 24.4 13.46 0.0003	0.0234 0.578 -9.05 19.3 12.41 0.000531	0.025 17.90 0.023	0.000391	3.40 10.4 11.33	0 004E 0 4EE -13.40	0 13.19 U.(U)	0.020
0.038 15.58 0.0057 0.502 -12.42 24.7 12.51 0.000268 0.033 19.41 0.0296 0.627 -8.00 24.4 13.46 0.0003	0.0260 0.601 -8.56 21.5 12.90 0.000450	0.029 18.60 0.026	6.000314	3.04 22.0 11.89	0.0053 0.477 -13.04	A 14-82 0.004	0.034
	J. 0296 0.627 -8.00 24.4 L3.46 0.000377	0.033 19.41 0.029	0.000268	2.42 24.7 12.51	0.0057 0.502 -12.42	8 15.58 0.005	0.038
A ALE A ANAL A BUT -17 AL 17 A 17 B 10 0.000213 A ALE 10 40 0.0158 0.442 -7.26 29.5 14.21 0.000	0.000277	0 040 30 49 0 035	0.000213				
0.043 [6.06 0.0004 0.51] -12.04 21.4 12.57 0.000215 0.000 20.47 0.0558 0.0558 -1.20 2.15 1.121 0.0002 0.0002 0.000 0.058 0.05	A AAAA A AAA -A.8/ 33.7 14.60 0.000237	0.040 20.44 0.035	0.000215	1 40 74 4 13 44		3 16.06 0.000	0.043
	0.0491 0.713 -6.16 40.5 15.30 0.000188	0.055 22.07 0.049	0.000100	0.57 44.7 14.36	0.0077 0.535 -11.44	9 17 00 0 010	0.055
0.003 18.34 0.0124 0.391 10.19 54.0 14.74 0.000077 0.065 72.78 0.0580 0.736 -5.56 47.9 15.80 0.0007	0.0580 0.736 -5.66 47.9 15.80 0.000159	0.065 72.78 0.058	0.000077	0.19 54.0 14.74	0.0124 0.591 -10.19	3 18.36 0.012	0.083
0,108 19,07 0,0182 0,614 -9,62 70,3 15.31 0,000056 0,080 23.86 0,0714 0.771 -4.91 58.9 16.55 0,000	3.0714 0.771 -4.91 58.9 16.55 0.000134	0.080 23.86 0.071	0.000056	9.62 70.3 15.31	0.0162 0.614 -9.62	8 19.07 0.016	0.108
R 133 19.94 A A30A A.443 -R.91 R6.4 16.02 0.000044 D.100 25.11 0.0891 0.811 -4.05 73.5 17.41 0.000	0.0891 0.811 -4.C5 73.5 17.41 0.000111	0.100 25.11 0.089	0.000044	R. 91 86.6 16.02	0.0200 0.663 -8.91	1 19.94 0.020	A 111
0.153 20.23 0.0237 0.651 -8.70 107.9 16.23 0.000039 0.120 26.16 0.1069 0.845 -3.32 88.2 18.14 0.000	0.1069 0.845 -3.32 88.2 18.14 0.000094	0.120 26.16 0.106	6.000039	8.70 102.9 16.23	0.0237 0.651 -8.70	8 20.23 0.023	0.158
0.208 21.07 0.0312 0.679 -8.01 135.5 16.92 0.00031 0.140 26.95 0.1247 0.871 -2.77 102.8 18.69 0.000	0.1247 C.871 -2.77 102.8 18.69 0.000J61	0.140 26.95 0.124	0.000031	8.01 135.5 16.92	0.0312 0.679 -8.01	8 21.07 0.031	0.208
0.758 21.76 0.0387 0.701 -7.46 168.2 17.47 0.000027 0.160 27.67 0.1425 0.894 -2.27 117.5 19.19 0.000	3.1425 0.894 -2.27 117.5 19.19 0.000070	0.160 27.67 0.142	4.000027	7.46 168.2 17.47	0.0387 0.701 -7.46	8 21.76 0.038	0.258
0.333 22.77 0.0500 0.733 -6.65 217.1 18.28 0.000024 0.185 28.49 0.1647 0.921 -1.71 135.8 19.76 0.000	J.1647 J.921 -1.71 135.8 19.76 0.000057	0.185 28.49 0.164	0.000024	6.65 217.1 18.28	0.0500 0.733 -6.65	3 22.77 0.050	0.333
0.488 23.84 0.0413 0.788 -4.02 244.0 18.51 0.400021 0.210 29.71 0.1869 0.964 -1.21 154.1 20.26 0.000/	0.1869 0.944 -1.21 154.1 20.26 0.00047	0.210 29.21 0.186	0.000021	A-02 266-0 18-51	0-0413 0-758 -4-02	4 23.56 0-041	0 404
0.508 24.55 0.0763 0.750 -5.22 331.2 19.71 0.000018 0.200 30.30 0.2313 0.979 -0.45 193.8 21.01 0.000	J.2313 0.979 -0.45 193.8 21.01 0.000028	0.260 30.30 0.231	0.000018	5. 22 331.2 19.71	0.0763 0.750 -5.22	8 24.55 0.076	0.508
0.468 25.52 0.0913 0.822 -4.45 396.5 20.48 0.000017 0.310 30.80 0.2758 0.495 -0.11 227.4 21.36 0.000	0.000015	0.310 30.80 0.275	0.060017	4.45 396.5 20.48	0.0913 0.822 -4.45	8 25.52 0.091	0.608
0.708 26.19 0.1063 0.843 -3.91 461.7 21.02 0.000015 0.410 31.05 0.3647 1.003 0.07 300.7 21.53 0.000	J. 3647 L.CO3 0.C7 300.7 21.53 0.000001	0.410 31.05 0.364	0.000615	3.91 461.7 21.02	0.1063 0.843 -3.91	8 26.19 0.106	0.708
0.858 27.33 0.1289 0.879 -3.02 559.5 21.91 0.000013 0.510 30.95 0.4535 1.000 D.00 374.0 21.46 0.0000	J.4535 1.000 0.00 374.0 21.46 0.00000	0.510 30.95 0.453	0.000013	3.02 559.5 21.51	0.1289 0.879 -3.02	8 27.30 0.128	0.858
1-008 28-36 0-1514 0-913 -Z-16 657-4 22-77 0-000011			C. 006011	7.16 657.4 22.77	0.1514 0.913 -2.16	A 28.36 0.191	1.008
1.208 29.50 0.1814 0.950 -1.25 787.8 23.68 0.000008			0.000(05	1.25 787.8 23.68	0.1814 0.950 -1.25	8 29.50 0.181	1.208
1.408 30.38 0.2115 0.578 -0.55 918.3 24.38 0.000005			0.000005	0.55 918.3 24.38	0.2115 0.478 -0.55	8 30.38 0.211	1.408
1.708 31.02 0.2566 0.999 -0.03 1114.0 24.90 0.000003			0.00003	0.03 1114.0 24.90	0.2566 0.999 -0.03 1	8 31.02 0.256	1.708
2.008 30.53 0.3016 0.558 -0.66 1305.7 24.87 0.000001			0.000001	0.06 1309.7 24.87	0.3016 0.998 -0.06 1	8 30.98 0.301	2.008
2.308 31.04 0.3467 0.999 -0.01 1505.3 24.92 0.000000			0.000000	0.01 1505.3 24.92	0.3467 0.999 -0.01 1	8 31.04 0.346	2.308
2.008 31.05 0.3918 1.000 -0.01 1701.6 24.52 -0.000060			-0.000060	0.01 1701.0 24.52	0.3918 1.000 -0.01 1	8 31.05 0.391	2.608
2,808 31.06 0.4218 1.000 0.50 183 <u>1.5 24.93 -0.000000</u>			-0.00000	0.00 1831.5 24.93	0.4218 1.000 0.00 1	8 31.06 0.421	2,808
3.108 31.06 0.4669 1.000 0.00 2027.2 24.53 0.000000			0.000000	0.00 2027.2 24.53	0.4669 1.000 0.00 2	8 31.06 0.466	3,108

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RUN: 1	00571-1	X=10	. Z.	σ.						NUN: 1	100571-1	x=22.	7.	ο.				
							5.03		80.2	01 F	12.15		D1 =	0.1523	BETA	0. 601	F D Z	* 1023.
01	30, 28		01 .	0.0822		- 0.002			1.577	CF/2=	0.0015	7	- SG	0.0993	8	= 0.645	н	* 1.533
LF/2	0.0019	2	02 -	1 4720	8.		a 6		8.339	F +	0.0010	1	DC =	3.8493	P+	-0.000	0 .G	- 8.791
5 5	0.0010	1 c.e.		0 3651	104	- 0.023	å č			× =	0.796E	-09	P99 •	0.7549	¥0+	. 0.025	5	
· ·	0.3030	-08		0.3736	101	- 0.013	•											
								_				v / 0/	ozor	Disc. CLAD	• ••		TAL	TAULAN
Y	U	¥70C	0/01	(0-01)/0	• Y+	0+	TAU	1.	AULAM		0	1700						
0.005	5.07	0.0027	0.167	-18.97	3.4	3.81	0.00210	0.0	001852	0.005	4.23	0.0013	0.13	2 - 21 - 95	3.2	3.33	0.00170	0.001296
0.006	5.69	0.0032	0.188	-18.50	4.1	4.28	0.00212	9.1	001754	0.006	4.65	0.0016	0.145	-21.62	3.9	3.60	0.00172	0.001205
0.007	6.48	0.0037	0.214	-17.91	4.7	4.87	0.00214	Q.1	001656	0.007	5.20	0.0018	0.16	2 -21-19		4.04	0.00173	0.001114
0.008	7.72	0.0043	0.238	-17.35	5.4	5.43	0.00217	3.4	001538	0.008	5.76	0.0021	0.179	-20.75	5.2	4.53	0.00175	0.001086
0.009	7.97	0.0048	0.263	~16.7B	6.1	6.00	0.00219	٥.	001203	0.(39	6.33	0.0023	0.191	-70.30	5.8	4.48	0.00177	0.001115
				-16 - 11		4 57	0.00222	0.1	0.0166.0	0.010	0.95	0.0026	0.216	-19.81	6.5	5.46	0.00179	0.001107
0.010	8.13	0.0095	0.200	-10.21		7 47	0.00225		0.1257	0.012	8.13	0.0031	0.253	19.88	7.8	6.39	0.00182	0.001015
0.012	9.93	0.0004	0.320	-17+31	0.1		0.00229	Ă	001104	0.014	9.13	0.0036	0.284	-18.10	9,0	7.18	0.00185	0.000937
0.014	11.00	0.0075	0.303	-12 44	10.0	0 14	0.00232		000974	3.016	10.09	0.0042	0.314	-17.34	19.3	7.94	0.00188	0.000840
0.010	12+17	0.0005	0.401	12 11	17.7	0 47	0.00234		000458	0.018	10.88	0.0047	0.338	-16.72	11.6	8.55	0.00191	0.000763
0.018	12.63	0.0096	0.444	-13-14	14.4	1.01	•••••	•••	000030									
0.021	14.09	0.0112	0.465	-12-18	14.2	10.60	0.00237	0.1	063690	0.021	12.19	0.0055	0.379	-15.69	13+6	5.58	0.00195	3.000650
0 024	15.01	0.0174	0.496	-11.49	16.7	11.30	0.00240	0.1	000558	0.024	13.04	0.0062	0.400	-15.03	15.5	10.25	0.00197	0.000551
0.028	15.90	0.0150	0.525	-10.62	10.9	11.97	0.00241	0.1	000443	0.027	13.93	0.0070	0.43	3 -14.32	17.5	16.95	0.00200	0.000471
0.013	14 40	0.0171	0.544	-10.38	21.6	17.40	0.00242	D.	000352	0.031	14.75	O. CCAL	0.45	-13.60	20.0	11.60	0.00202	0.000368
0.032	17 10	0.0198	0.571	-9.77	25.0	13.02	0.00242	0.0	00.278	0.035	15.51	0.0091	0.483	3 -13.08	22.6	12.20	0.00204	0.000305
0.031	11130	010170																
0.042	17.07	0.0224	0.592	-9.30	28.4	13.48	0.00242	0.1	0 002 34	0.039	16.13	0.0101	0.50	2 -12.59	25.2	12.68	0.00205	0.000248
0.052	18.83	0.0276	0.622	-8-62	35.1	14.16	0.00240	0.	000178	6.043	16.46	0.0112	0.512	-12.34	27.8	12.94	0.00206	0.000210
0.062	19.43	0.0331	0.642	-8-16	41.9	14.62	0.00237	0.1	000142	0.048	17.08	0.0125	0.531	-11.85	31.0	13.43	0.00207	0.000173
0.002	20.50	0.0438	0.680	-7.29	55.4	15.49	0.00229	0.1	000110	0.053	17.43	0.0138	0.542	2 -11.57	34.3	13.71	0.00207	0.000148
0.10Z	21.47	0.0545	0.709	-6.63	68.9	16.15	0.00218	0.	000095	0.063	18.08	0.0164	0.562	2 -11.06	40.7	14.21	0.00208	0.000121
				F 0-		14 65	0-00202		00.045	0.088	19.40	0.0229	0.60	+10.02	56.9	15.25	0.00207	0.000085
0.127	22.54	0.0678	0.744	-5.83	82.8	10.22	0.00101		0000000	0.113	20 . 34	0.0294	0.63	-9.79	73.0	15.99	0.00204	0.000071
0-152	23.36	0.0812	0.772	-3.21	102.1	11.08	0.00165		000074	0.136	21.20	0.0359	0.66	-8.01	89.2	16.67	0.00201	0.000062
0.177	24.29	0.0946	0.802	-9.51	114+6	18.27	0.00144			0 141	21 85	0.0423	0.68	-9.09	105.4	17.18	0.00196	0.000056
0.202	25.11	0.1079	0.829	-3.89	130.5	18.89	0.00110			0.213	23.28	0.0551	0.724	-6.97	137.7	18.30	0,00184	0.000049
0.252	26.72	0.1346	0.802	-2.68	110.3	20.10	0.00110	0.	000080									
0.303	28 13	0.1413	0.979	-1.67	204-0	21.16	0.00076	0.1	000049	0.263	24.45	0.0683	0.76) -6.05	170.0	19.22	0.00167	0.000044
0.302	20.13	0 1880	0 947	-0.75	237.8	22.03	0.00050	0.	000036	0.313	25.49	0.0813	0,79	3 -5.23	202.3	20.04	0.00147	0.00041
0 407	27+67	0 2147	0.701	-0.14	271.6	22.64	0.00029	0.0	000021	0.363	26.59	0.0943	0.82	7 -4.37	234.6	20.91	0.00124	0.000039
0.402	10 67	0.2415	1.010	6.22	305.4	23.00	0.00012	0.	000010	0.413	27.56	0.1073	0.85	7 -3.61	267.0	21.67	0.00102	0.000036
0.502	30.79	0.2662	1.017	0.38	339.2	23.16	0.00080	0.	000002	0.463	28.54	0.1203	0.98	5 -2.83	299.3	22.44	0.00080	0.000032
		-									76.50	4.1333	0.91	-2.CB	331.6	23.19	0.00040	0.000028
0.602	30,20	0.3216	1.000	0.00	406.7	22.78	0.00000	0.1	0,00000	× 113	30 88	A 1501	0.96	-0.99	396.3	24.28	0.00030	0.000018
										0.013	31 71	0.1852	0.54	-0.34	460.9	74.93	0.00013	0.000011
										0.113	31.04	0.211	0.90	5 -0.13	525.5	25.15	0.00007	0.000005
										0.013	33 10	0 2372	0.99	+0.04	590.2	25.24	-0-06081	0.000301
										0.413	32+10	0.2372						

1.013 32.15 0.2632 1.000 0.00 654.8 25.28 0.00000 -0.000001 1.113 32.15 0.2891 1.000 0.00 719.5 25.28 0.00000 0.000000

211 10 11

RUN: 1	00571-1	X=34	. 2-	0.					AUN: I	00571-1	X=46.	2= 0					
	70 51			. 1811			FD 2	a 1d78.		31.28			2279	AETA	0.004	FDZ	- 2404.
CE / 7-	0.0015	n	D2 = 1	0.1211	8	0.666	н	= 1.495	CF/2*	0.0013	8	82 = 0	1512	8	0.744	н	= 1.508
E .	0.0010	n i	Dr a	4.6750	P+ :	. 0.000	0 6	8.551	F F	3.0010	3	00 - 00	E. 1264	P+ 1	C.000	0 G	* 9.049
	-0. 760F	-05	099 ×	0.9212	¥0+	0.025	8		× *	-0.164E	- C 8	099 = 1	.1291	v0+ :	0.027	7	
Y	v	¥700	U/UT	10-01170	* Y+	U +	TAL	TAULAM	Y	U	Y/DC	0701	10-91170+	¥+	1)+	T AU	TAULAN
			0.145	- 22 04	1.4	1.75	0.00145	0.001666	0.005	3.74	0.0008	0.103	-74.10	3.0	2.78	0.00149	0.001077
0.005	4.43	0.0012	0.145	-22.00	A 0	6.73	0.00166	0.001401	0.005	3.48	0.0010	0.111	-23.99	3.5	2.99	0.00149	0.001045
0.007	5.00	0.0014	0.104	-21.00		4.79	0.00169	0.001335	0.000	3.78	0.0011	0.121	-23-63	4.1	3.25	0.00150	0.001013
0.008	2.67	0.0016	0.100	-20.46	5 2	5.15	0.00171	0.001/76	0.009	4.33	0.0013	0.138	-23-16	4.7	3.72	0.00152	0.001017
0.009	6+33	0.0018	0.207	-10 65	5 8	5.84	0.00173	0.001217	0.000	A . 89	0.0015	0.156	-22-67	5.3	4.21	0.00154	0.061096
0.010	0.93	0.0021	0.227	-1-1-75					0.00+		••••••						
0.011	7 44	0.0023	0.744	+19.51	6.4	6.30	0.00174	0.001197	0.011	5.98	0.0018	3.191	-21,74	6.5	5.14	0.00158	0.04104
0.011		0.0023	0.244	-18.54	7.6	7.27	0.00178	0.051074	0.013	7.12	0.0021	0.728	-20.76	7.7	6.12	0.00161	0.001038
0.015	0.14	0.0031	0.310	-17.81	R. 8	8.00	0.00181	0.000941	0.015	8.15	0.0024	0.261	-19.87	8.9	7.01	0.00165	0.000940
0.015	74 40	0.0031	0.345	-16 01	10.0	8 00	0.00184	0.000815	0.017	9.04	0.0078	0.293	-19.17	10.1	7.80	0.00168	0.0008>L
0.017	10.92	0.0036	0.345	-16.37	11.7	9.49	0.00186	0.000716	0.020	10.38	0.0033	0.332	-17.56	11.8	8.92	0.00172	U.000700
0.014	11.22	0.0040	0.308	-10136				*****	0.020								
0 022	17.00	0.0044	0.396	-15.58	13.0	10.23	0.00189	0.000588	0-023	11.27	0.0038	0.360	-17.19	13.6	9.65	0.00174	0.000580
0.025	12.79	0.0053	0.419	-14.99	14.8	10.82	0.00191	0.000481	0.026	12.09	0.0042	0.387	-15.49	15.4	10.39	0.00177	0.000480
0.019	13 70	0.0000	0.449	-14.22	17.7	11.59	0.00194	0.000389	0.029	12.68	0.0047	0.405	-15.98	17.2	10.89	0.00179	0.000405
0.027	14 50	0.0077	0.475	-13.55	20.2	12.26	0.00197	0.000308	0.033	13.49	0.0054	0.431	-15.29	19.5	11.59	0.00181	0.000336
0.034	15.21	0.0083	0.498	-12.95	23.2	12.87	0.00199	0.000250	0.038	14.10	0.0062	0.453	-14.71	22.5	12.17	0.00183	0.000270
0.017	17.11		••••						•••••								
0.049	16.08	0.0104	0.527	-12.21	29.2	13.60	0.00201	0.000172	0.043	14.83	0.0070	0.474	-14.13	25.4	12.74	9.00182	0.000225
0 059	16.81	0.0125	0.551	-11.59	35.2	14.22	0.00202	0.000132	0.053	15.76	0.0087	0.504	-13.34	31.3	13.54	0.00187	0.000161
3.074	17.55	0.0157	0.575	-10.96	44.2	14.85	0.00203	0.000099	0.063	16.42	0.0103	0.525	-12.77	37.3	14.11	0.00189	0.000126
0.099	18.41	0.0211	0.603	-10.24	59.2	15.57	0.00204	0.000074	0.083	17.39	0.0135	0.556	-11.93	49.1	14.95	0.00191	0.000088
0.124	19.29	0.0764	0.637	-9.49	74.3	16.32	0.00204	0.000002	0.103	18.10	0.0168	0+579	-11.32	60.9	15.56	0.00192	0.300070
0.149	19.96	0.0318	0.654	-8.93	89.3	16.88	0.00203	0.000055	D.128	18,91	0.0209	0.605	-10.63	75.7	16.75	0.00193	0.000056
0.199	21.01	0.0425	0.689	~8.0Z	119.3	17.79	0.00200	0.000046	0.153	19.52	0.0250	0.624	-10.10	90.5	16.78	0.00192	0.000049
0.749	22.10	0.0532	0.724	-7.12	149.4	18.69	0.00195	0.000041	0.178	20.11	0.0291	0.643	-9.60	105.3	17.26	0.00141	0.000044
0.299	22.98	0.0639	0.753	-6.37	179.4	19.44	0.00108	0.000038	0.203	20.57	0.0331	0.658	-9.20	120.1	17.68	0.00184	0.000040
0.349	23.87	0.0746	0.782	-5.62	209.5	20.19	0.00161	0.000035	0.253	21.49	0.0413	C.697	- 9.41	149.6	19.47	0.00185	0.000036
0.449	25.35	0.0960	0.831	-4.36	269.5	21.45	0.00100	0.00031	0.303	22.33	0.0495	0.714	-7.69	179.2	19.19	0.00179	0.000033
0.549	26.78	0.1173	0.878	- 3. 16	329.6	22.66	0.00135	0.000027	0.403	24.OJ	0.0658	0.767	-6.25	238.4	20.63	0.00100	0.000029
0.649	28.08	0.1387	0.920	-2+05	389.7	23.76	0.00106	0.000021	0.503	25.24	0.0821	0.807	-5.19	297.5	21.69	0.00148	0.000026
0.749	29,17	0,1601	0.556	-1.13	449.8	Z4.68	0.00078	0.000016	0.603	26.52	0.0984	0.848	-4.69	356.7	22.79	0.00125	0.000024
0.849	29.95	0.1815	0.982	-0.47	509.9	25.34	0.00453	0.000011	0.703	27.68	0.1147	0.885	-3.10	415.8	23,78	0.00045	0.000021
														176 C	74 44	0.00045	a. 000019
0.999	30.48	0.2136	0.999	-0.03	600.0	25.78	0.00623	0.00005	0.803	28.70	0.1311	0.918	-2.22	973.U	24.00	0.00039	0.000016
1.149	30.53	0.2457	1.001	0.02	690.1	25.83	0.00000	0.003001	0.903	29.73	0+1474	0.951	-1.33	477 0	14 41	0.00009	0.00000
1.299	30.51	0.2778	1.000	0.00	780.2	25.81	0.00600	0.00000	1.053	30.73	0.1719	0.983	-0,47	0/2+0	20.41	-0.00005	0.000004
									1.203	31.19	0.1964	0.997	-0.08	111+0	20.00	0.00000	0.000004
									1.403	31.29	u.2290	1.000	3.01	H24+4	20.84		0.00001
									L.603	11.28	0.2617	1.000	0.00	948.2	26.89	0.00000	0.000000

RUN: 1	00571-1	X=58		.					RUN: 1	00571-1	x = 70 .						
UT .	31.17		01 · I	0.2688	RETA	. 0.00e	. R02	× 2657.	UI -	31.10		n1 = 0	0.3139	9E T A	= 0.006	PD2	2 = 3320.
CF/2=	0.0013	z	02 * 1	0.1803	в	= 0.775	н	= 1.491	CF/2*	0.0012	5	02 . (0.2104	8	= 0.842	н	= 1.+92
F =	0.0010	Z	DC = 1	7.4113	P+	= 0,000	00 G	= 9.075	۴ ۲	0.0010	5	DC • 8	. 8911	P +	= 0.000	10 G	× 9.330
к =	-0.186E	-06	D49 * 1	1.3490	VQ +	= 0.028	1		K *	-0.139E	- C B	059 = 1	. 5565	+64	= 0.029	7	
۲	U	Y/DC	0701	(0-01)/	* Y+	U+	TAU	TAULAN	Y	9	¥/0C	U/UI	(0-1)[)/(j* Y+	U+	TAU	T AGE AM
0.005	3.15	0.0007	0.101	~74.78	2.9	7.79	0.00162	0.001028	0.005	3.54	0.0006	0.114	-25.10	2.8	3.22	0.00137	0.001166
0.006	3.47	0.0008	0.111	-24.50	3.4	3.07	0.00143	0.000959	0.006	4.01	0.0007	0.129	-24.68	3.3	3.65	0.06139	0.001070
0.007	3.81	0.0009	0.172	-24.20	4.0	3.37	0.00144	0.000890	0.007	4.44	0.0008	0.143	-24.29	3.9	4.04	0.00140	0.000986
0.008	4.27	0.0011	0.137	-23.79	4.6	3.78	0.00146	0.000890	0.008	4.87	0.0009	0.157	-23.49	4.5	4.44	0.00141	0.000903
0.009	4.75	0.0012	0.152	-23.37	5.2	4.20	0.00148	0.000903	0.007	5.32	0.0010	0.171	-23.48	5.0	4.85	0+06143	0.000955
	e 17					4 60	0 00140	A A. 106.8	0 010	E 94	a	0 189	- 11 - 01	5.4	5 17	0.00145	0.003953
0.010	2.1/	0.0013	0.100	-22.79	2.1	4.50	0.00147	0.000998	0.010	5.04	0.0011	0.100	-73.01		6 01	0.00147	0.0000000
0.012	7 15	0.0016	0.170	-22+10	0.7	6 33	0.00152	0.001002	0.012	7 71	0.001	0.749	-21 28	7 8	7 04	0.00151	0.000874
0.014	1-15	0.0019	0.224	- 21+22	0.0	0, 22	0.00159	0.000147	0.014	0 35	0.0010	0.249	- 23 . 73	a. 9	7.41	0.00153	0.000745
0.010	0.44	0.0022	0.203	-10 77	10.6	9 35	0.00163	0.0000000	0.010	0.00	0.0010	0 262	+ 20. 05	10.0	8.28	0.00156	0.003681
0.019	7	0.0020	0.303	-17,22	10.7	0.55	0.00103	0.000/42	0.015	7.07			10000	1010		•••••	
0.022	10.49	0.0030	0.337	-18.29	12.6	9.28	0.00166	0.000642	0.022	10.38	0.0025	0.334	-19.87	12.3	5.46	0100160	0.000548
0.025	11.33	0.0034	0.363	-17.55	14.4	10,02	0.00169	0.000532	0.026	11.22	0.0029	0.361	-19.11	14.5	10.22	0.06163	0.003+53
0.029	12.25	0.0039	0.393	-16.73	16.7	10.84	0.00172	0.000427	0.030	12.22	0.0034	0.393	-17.19	16.7	11.13	0406166	0.000372
0.034	13.49	0.0046	0.433	-15.64	19.5	11.93	0.00176	0.000336	0.035	13.04	0.0039	0.421	-16.40	19.5	11.92	0.06169	0.000294
0.039	13.99	0.0053	0.449	-15,19	22.4	12.37	0.00177	0.000266	0.040	13.62	0.0045	0.438	-15.92	22.3	12.41	0.00170	0+060240
0.044	14.46	0.0059	0.464	-14+78	25.3	12.79	0.00179	0.000217	0.045	14-19	0.0051	0.456	-15.40	23.1	12.93	0.00172	0.000193
0.054	15.54	0.0073	0.499	-13-83	31.0	13.74	0.00182	0.000152	0.050	14.59	0.0056	0.464	-15.04	21.4	13.29	0.00173	0.000181
0.064	16.05	0.0086	0.515	-13+38	10.0	14.19	0.00183	0.000124	0.060	15-31	0.0067	0.492	-14.38		13.95	0.04175	0.000123
0.089	17.34	0.0120	0.556	-12.23	21.1	15.34	0.00186	0.000078	0.085	16.40	0.0096	0.527	-13.39	21.2	14.94	0.00177	0.000080
0.114	18.05	0.0154	0.579	-11.01	67.7	12.40	0.00187	0.000058	0+110	17.25	0.0124	C. 333	-12.01	01.4	124 14	0.00179	0.000001
0.139	18.73	0.0188	0.601	-11.00	79.9	16.57	0.00187	0.000049	0.160	18.49	0.0180	0.555	-11.48	89.3	16.85	0.00180	0.000044
0.164	19.14	0.0221	0.614	-10.64	94.2	16.93	0.00187	0.000042	0.210	19.27	0.0236	0.620	-10.78	117.2	17.55	0.00180	0.000036
0.214	20.11	0.0289	0.645	-9.79	123.0	17.78	0.00186	0.000037	0.310	20.82	0.0349	0.669	-9.36	173.0	18.96	0.00179	0.000029
0.264	20.94	0.0356	0.672	-9.05	151.7	18.52	0.00183	0.000033	0.410	21.98	0.0461	0.707	-9.31	228.8	20.02	0.06173	0.000025
0.314	21.72	0.0424	0.697	-8.36	190.4	19.21	0.00180	9.000333	0.510	23.31	0.0574	0.749	-7.10	284.5	21.23	0.00166	0.000023
0.414	23.14	0.0559	0.747	-7.10	737.9	20.47	0-00172	0.000026	0.710	25.17	0.0799	0.810	-5.40	396.2	22.93	0406143	0.000019
0.514	74.27	0.0694	0.779	-6.10	295.4	21.47	0.00160	0.000023	0.910	27.05	0.1023	0.870	-3.69	507.8	24.63	0.08114	0.000016
0.614	25.44	0.0878	0.816	-5.07	352.8	22.5D	0.00147	0.000022	1.110	28.54	0.1248	0.915	-2.33	619.4	26.00	0.00079	0.000012
0.714	26 43	0.0963	0.848	-4.20	410.3	23.37	0.00131	0.000020	1.310	29.88	0.1473	0.961	-1.11	731.0	27.22	0.06047	0.000039
0.814	27.35	0.1098	0.478	-3.37	467.8	24.19	0.00112	0.000018	1.510	30.70	0.1698	0.987	-0.36	842.6	27.97	0.00021	0.000005
0.914	28.29	0.1233	0.908	-2.55	525.2	25.OZ	0.00093	0.000015	1.710	31.06	0,1923	0.049	-0.03	954.2	28.29	0.00006	0.000003
1.114	29.80	0.1503	0.956	+L.21	640.1	26.36	0.00054	0.000010	1.885	31.13	0.2120	1.001	0.03	1051.9	Z8.36	0.00000	0.000001
1.314	30.80	0.1773	0.988	-0.33	755.1	27.24	0.00025	0.000086	2.110	31.10	0.2373	1.000	3.00	1177.4	28.33	0.0630	0.000000
1.514	31.15	0.2043	0.999	-0.02	870.0	27.55	0.00008	0.000002									
1.714	31.19	0.2313	1.001	0.02	984.9	27.59	0.00000	0.000000									
1.864	31.17	0.2515	1.000	0.00	1071.1	27.57	0.00000	0.00000									

FUNI 1	00571-1	X=82	. /* 0						SUNT	103571-1	X×90.	7= 5				
								- 1 / 2		31.02		01 = 0	. 37 30	DETA	C. 004	FD2 = 3996.
01 +	31+18		91 = 0	. 15 / 1	PETA	- 0.00I	- 172		CF/2=	2.0011	8	D2 = 5	2535	Ŗ	C.852	H = 1.472
CF/2=	0.0012	e	02 = 0	.2343	2	- 0.877		1.402	F F	0.0010	4	80 =10	.8605	P+	=-0,0000	G = 9.330
F *	0.0010	15	00 +13	. 2032	P+	* 0.000		x 4.341	ż.	0.4795	- 69	799 = 1	. 07 10	¥0+	 0.0303 	
к -	-0.254F	-09	049 = L	. 1018	V04	= 1.030	,		, -	••••	•					
Y	U	¥/0C	0701	(0-01)70	j• ¥+	U+	TAU	TAULA4	¥	U	Y/DC	U/UI	19-01779	* Y+	U+	TAULAM
		3. 00 AF	0.101	- 76 64	· · ·	2 64	0.00131	0.001066	d.007	4.23	0.0006	0.136	-25.15	3.7	3.97	0.001064
0.005	2.17	0.0005	0.132	- 75 44		3 21	0.00137	0.000945	0.004	4.73	0.0007	0.152	-24.69	4.2	4.44	0.001044
0.005	3.97	0.0000	3 1 7 4	- 25.00	3.3	1 60	0.00133	0.000000	0.009	5.00	80.00.0	0.163	-24.37	4.8	4.75	0.001000
0.007	3.00	0.0007	0.124	-23.30		2 64	0.00136	0.000704	3.010	5.57	0.0004	0.180	-23.48	5.3	5.73	0.000949
0.008	4.30	0.0038	0.137	-29.91	7.7	4 41	0.00134	0.000424	0.012	5.47	0.0011	3.209	-23.04	6.4	6.08	0.000686
0.004	· · / >	0.0004	0.123	-24,44	4, 4	4.41	0.00150	0.000300								
							0 00138	0.0.0.77	0.014	7.39	0.0013	0.235	-22.18	7.5	6.54	0.0008∠5
0.010	5.31	0.0010	3.170	-23.57	2.2	4.43	0.001/0	0.000977	0.017	8.52	0.0015	3.275	-21.12	9.1	a.00	0.000690
0.012	6.24	0.0012	0.202	-23.37	0.0	3.82	0.00141	0.000404	0.021	9.79	0.0019	0.315	-17.53	11.3	9.18	3.000573
0.014	7.05	0.0014	0.226	-27.36	4.4	0.7	0.00147	0.000000	0.026	11.13	0.0024	0.159	-19.67	14.0	10.45	0.000439
0.016	7.95	3.0016	J.255	-21.53	A.8	7.16	0.00147	0.000712	0 031	12.01	0.007B	0.387	-17.85	16.7	11.27	0.000341
0.018	8.63	0.0018	0.277	-20.89	9.9	9.00	0.00144	0.000651	0.071		010010					
							0.00164		0 037	13.11	0.0034	0.421	-16.81	19.9	12.30	0.000202
0.023	9.97	0.0023	0.323	-19.66	12.0	9.24	0.00154	0.000516	0.044	11 12	0.0040	0.447	-16.24	23.7	12.88	0.000200
0.026	11.05	0.0027	0.354	-18.45	15.4	10.24	0.00157	0.000404	0.044	14 41	0 0040	0.465	-15.59	28.6	11.53	0.000151
0.033	12.23	0.0032	0.392	-17.56	19.1	11.33	0.00161	0+000+0	0.000	14.41	0.0047	0 463	-14 75	36.7	14.37	0.00010-
0.043	13.67	0.0042	0.438	-16.23	23.6	12.67	0+00166	0.00232	0.000	13.31	0.0002	A 511		47 6	15 21	0.000077
J.053	14.40	0.0052	0.462	-15.55	29.1	13.34	0.00168	3.000170	0.086	10.23	0.0091	0+925	-13.06	41.17		
									o 110	17 16	0.0108	0 551	-11.02	63.8	16.10	0.000055
0.078	16.06	0.0076	0.515	-14.01	42.8	14.88	0.00173	3.030047	0.110	11.19	0.0116	3 670	-12 51	80.0	04.41	0.000044
0.103	16.77	0.0101	0.538	-13.35	56.5	15.54	0.00175	0.000009	0.148	17.04	0.0130	0.570	-12.51	101 7	17 46	0.040055
0.153	18.09	0.0150	0.580	-12.13	83.9	16.77	0.00176	0.000346	0.148	18.60	0.0175	0.000	-11.05	121.1	10.14	0.000030
0.203	19.10	0.0199	J.615	-11.13	111.3	17.76	0.00179	0.000035	0.243	19.35	0.0224	0.024	-10.90	177.1	10.05	0.000035
0.303	20.47	0.0297	0.656	- 9. 93	166.2	18.57	0.00179	3.0-00-27	0.518	20.29	0.0253	0.054	-10.07	1/2-1	17.07	01000029
									0.410	33 4 B	0.0385	0 603	-4 55	226.2	20.17	0.000022
0.403	21.55	0.0395	0.691	-8,92	221.0	14.97	0.00177	0.00023	0.410	21.490	3 4/77	0.071	- 8 1 2	280 4	21.00	4.00020
0.503	22.62	0.0493	0.726	-7.93	275.9	20.96	0.00173	0.000021	0.518	22.51	0.0477	0.721	-0.17	141 4	77 72	A AA161 B
0.703	24.45	0.0689	0.784	-6.23	385.6	22.66	0.00159	0.000018	0.666	23.01	0.0819	0.103	-0.70	447 8	23 44	0.00015
0.903	26.10	0.0885	0.837	-4.70	495.2	24.19	0.00140	0.000016	0+818	25.00	0.0755	0.000	- 3.00	442.0	2 3. 40	0.0.00010
1,103	27.59	0.1081	0.845	-3.33	604.9	25.57	0.00116	0.000013	1.018	26.47	0+0431	0.853	-4.27	22111	29.07	0.000014
											A 1171	n eo/	-7.10	460 4	26.02	0.000012
1.303	28.97	0.1277	0.929	-2,05	714.6	26.85	0.00086	0.000010	1.219	21.12	0+1121	0.034	-1.67	767 7	27 14	0.000011
1.503	30.00	0.1473	0.962	-1.09	A24.3	27.81	0.00053	0.0000.7	1.418	28.92	0.1305	0.932	-1-71	10141	73 72	0.000007
1.703	30.71	0.1669	0,945	-0.44	934.0	Z8.46	0.00025	0.000005	1.618	29.87	0.1490	0.903	-1.08	1023 8	20.04	0.000000
2.003	31.19	0.1963	1.000	0.01	1098.5	29.91	0.00000	0.000003	1.918	30.86	0.1766	0.995	-0.15	1058.5	10.10	0.000004
2.303	31.18	0.2257	1.000	0.00	1263.1	28.89	0.00000	0.000000	2.218	31.04	0.2042	1.000	0.01	1210.4	27.13	3.000002
									2.518	31.02	J.2318	1.000	0.00	1363.4	29.12	1.000000

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RUNI	90171-2	X= 2	. Z•	0.				RUN:	90171-2	X=10.	2.4					
UI CF/2 F	31.66 0.0018 0.0020 -0.873E	3 0 -09	01 02 0C 099	0.0579 0.0358 1.3528 0.3028	ВЕТА 8 Р+ 40+	- C.COO - 1.090 - C.COOC - C.COOC - C.CA67	RD2 = 566. H = 1.618 G = 8.914	U1 = CF/2⊨ F = K =	31.57 0.0015 0.0020 -0.109E	0 0 - 0 8	01 = 0 D2 = 0 DC = 2 D99 = 0	0.1047 0.0657 2.7040 0.4839	8ETA- 8 P+ V0+	0.001 1.334 C.000 0.051	RD2 H G	= 1034. = 1.595 = 9.631
Y	U	Y/0C	U/U1	(0-01)/0	• Y+	u +	TAULAN	۲	U	¥/DC	U701	(0-01)/0+	٧+	U+	TAU	TAULAN
					2.0	1 41	0. 001849	0.005	4.48	0.0018	0.142	-22.16	3.0	3.67	0.00178	0.001542
0.004		0.0032	0.140	-16 81		3. 82	0.001790	0.006	5.07	0.0022	0.161	-21.68	3.7	4.15	0.00182	0.001466
0.005	2.14	0.0034	0.103		4.3	4. 40	0.091732	0.007	5.75	0.0026	0.182	-21.12	4.3	4.71	0.00186	0.001389
0.000		0.0041	0.100			5.03	0.001668	0.008	6.37	0.0030	0.Z02	-20.62	4.9	5.21	0.00190	0.001326
0.007	0.82	0.0054	0.215	-17 01	2.3	A 34	0.001565	0.009	7.06	0.0033	0.224	-20.05	5.5	5.78	0.00195	0.001324
0.004	8.00	0.0009	0.211	-1/101	•••											
					74	7 44	0.001393	D 011	8.31	0.0041	0.263	-19.03	6.7	6.80	0.00202	0.001207
0.011	10.12	0.0084	0.320	-12.07			0.001252	0.013	9.55	0.0048	0.303	-18.01	7.9	7,82	0.00210	0.001074
0.013	11.22	0.0048	0.303	-14.03		6 17	0.001099	0.015	10.70	0.0055	0.339	-17.07	9.1	8.76	0+00217	0.000938
0.015	12.03	0.0113	0.391	-17.05	17.4	10.47	0.000917	0.016	11.48	0.0067	0.376	-16.11	11.0	9.72	0.00224	0.000767
0.018	14.20	0.0133		-12.01	14.1	11.65	0.000743	0.022	11.33	0.0081	0.422	-14.92	13.4	10.90	0.00232	0.000565
0.051	15.66	0.0157	0.444	-11.00	1414	11.75		0.021								
				-11 14	14.4	12.20	0.000618	0.027	14.61	0.0100	0.463	-13.88	16.5	11.95	0.00239	0.000438
0.024	10-33	0.0180	0.92		10.7	13.13	0.000482	0.034	15.79	0.0126	0.500	-12.91	20.7	12.92	0.00244	0.000318
0.028	17.01	0.0209	0.704	-10.22	21 6	17 41	0.000387	0.034	17.10	0.0163	0.542	-11.84	26.8	13.99	0.00248	0.000224
0.032	18.43	0.0234	0.503			14.30	0.000316	0.044	18 43	0.0218	0.564	-10.75	36.0	15.08	0.00249	0.000157
0.037	19.40	0.0276	0.61	-9.04	23.2	14.70	0.000764	0.034	10 14	0.0274	0.613	-10.01	45.1	15.82	0.00247	0.000125
0.042	20.06	0.0313	0.635	0.70	20.0	14.17	01000101	0.0/4	17.24							
						15 47	0.000227	a nee	20 73	0.0366	0.657	-8.87	60.4	16.56	0.00240	0.000099
0-049	50.41	0.0364	0.001	-/		13.42	0.000197	0.134	21 70	0.0459	0.687	-8-07	75.6	17.75	0.00226	0.000087
0.057	21.67	0.0424	0.084	-1.31	50.0	17.48	0.000143	0.124	22 73	0.0551	0.770	-7.23	90.9	18.60	0.00212	0.000081
0.082	23.71	0.0608	0.74		77.4	18 72	0.000114	0.170	23.85	0.0667	0.755	-6.32	109.2	19.51	0.00193	0.000074
0.107	25.39	0.0793	0.80		12.0	10.12	0.00096	0.110	25.30	0 0810	0.801	-5.13	133.6	20.70	0.00166	0.000067
0.132	26.70	0.0578	0.84	5 - 3.00	84.3	14.04	01000074	0.217	23.30	010010						
					104 8	20 47	0.000079	A 370	27 20	0-1032	0.862	-3.57	170.2	22.26	U.00125	0.000056
0.157	27.76	0.1163	0.87	~2.00	100.9	20.47	0.000065	0.277	28 44	0 1198	0.907	-2.54	197.6	23.29	0.00097	0.000046
0.182	28.70	0.1348	0.904	5 -2.19	123.9	21.10	0.000063	0.324	10.40	0 1474	0.956	-1-13	243.3	24.70	0.00062	0.000030
0.207	29.51	0.1532	0.93	-1.59	140.5	21. 10	0.000033	0.349	31.00	0 1661	0.982	-0.47	273.8	25.36	0.00045	0.000021
0.247	30.54	0.1828	0.964	-0.83	10/-4	44.02	0.000037	0.444	31.00	A 1034	A 600	-0.02	119.6	25.81	0.00021	0.000010
0,287	31.22	0.2124	0.986	5 -0.33	144*4	23.02	0.000023	0,524	31.34	0.1430	v.,,,,	3101				
							0.000013			A 2715	1.001	0.04	365.3	25.87	0.00000	0.000002
0.332	31.59	0.2456	0.99	8 -0.05	224.4	23.30	0.000013	0.599	31.61	0 2403	1.001	0-02	411.1	25.85	0.00000	0.000003
0.382	31.71	0.2826	1.00	0.03	278./	23.38	-0.000003	0.6/4	11 67	0.2473	1.000	0.00	456.8	25.83	0.00000	0.000000
0.432	31.71	0.3196	1.002	2 0.04	242.6	23.39	-0.000002	0.149	31.31	0.2110		5100				
0.507	31.66	0.3750	1.000	0.00	343.3	43.35	0.000000									

R UN :	90171-2	X=22.	. Z = 1	0.					RUN:	90171-2	X=34.	. Z= I	٥.				
111 -	31.57		01 • 1	0.1670	BETA	= 0.002	RDZ	1661.	UI =	31.62		01 = 4	.2233	BETA	- 0.003	ROZ	= 2259.
CE/28	0.0012	7	02 *	0.1055	8	* 1.574	H	- 1.584	CF/2=	0.0011	4	02 - 4	0.1432	B	= L.759	н	= 1.540
	0 0030		0	6.6865	P+	. 0.000	a 6	=10.343	F .	0.0020	0	DC = 4	5.6207	P+	. 0.000	D G	=10.640
5 -	0.0020	°	000 -	C 7440	6.04	- 0 054	ĩ		¥ =	-0.945F	-09		1.0030	VQ + 1	= 0.059	3	
K =	-0.1136	÷08	099 -		101	- 01030	•		n -		•						
~		¥ /0C	1.71.5	11-07170	• ¥+	114	TAU	TAULAN	Y	U	Y/DC	U/UI	(U-UT]/U*	¥ +	U+	TAU	TAULAN
'	U																
0.005	3. 38	0-0011	0.167	-25.05	2.8	3.00	0.00148	0.001156	0.006	3.41	0.0008	0.108	-26.45	3.0	3.20	0.00136	0.001123
0.004	3 47	0.0013	0.116	- 24. 79	3.4	3. 26	0.00150	0.001128	0.007	3.80	0.0010	0.120	-26.09	3.5	3.56	0.00138	0.001106
0.000	4 17	0.0015	0 111	-74 38	1.9	3.67	0 00153	0.001101	0.008	4.37	0.0011	0.138	-25.55	4.0	4.10	0.00142	0.001090
0.001	7+13	0.0017	0.151	17 04		4 09	0.00154	0.001086	0.010	5 44	0.0014	0.173	-74.54	5.1	5.12	0.00149	0.001065
0.008	4.60	0.0017	0.140	-23.90	2.2		0.00130	0.001100	0.010	4 41	0.0014	0 204	- 21 47	6.7	6. 64	0.00155	0.001003
0.010	5.15	0.0021	0.182	-22.94	7.D	2411	0.00103	0.001104	0.012	0.43	0.0010	0.204	-23.01				
				-71 84	47	4 17	0.00170	0.001040	0.015	8.04	0.0077	0.254	- 22, 11	7. B	7.54	0.00165	0.000860
0.012	0+94	0.0026	0.210	-21		3 5/	0.00170	0.000006	0.015	0.35	4 6637	0 204	- 10 40		8.77	0.00173	0.000717
0.015	8.51	0.0032	0.269	-20.50	5.9	(0.00181	0.000344	0.010		0.0027	0.270	-20.07		6 44	0.00179	0.0004.04
0.018	9.80	0.0038	0.310	-19.35	10.1	8 . /1	0.00184	0.000/51	0.021	10.30	0.0031	0.320	-17.99	11.0	1.00	0.00186	0.000007
0.021	10.80	0.0045	0.342	-18.46	11.8	9.59	0.00195	0.000632	0.025	11.43	0.0037	0.362	-18.43	13.1	10.72	0.00100	0.000477
0.025	11.98	0.0053	0.379	-17.41	14.0	10.65	0.00202	0.000503	0.033	12.97	0.0049	0.410	-17.49	17.3	12.10	0.00145	0.000322
													15 08	74 7	13.47	0 00704	0.000200
0.030	13.07	0.0044	0.414	-10.44	16+8	11.02	0.00208	0.000393	0.046	14.57	0.0064	0.401	-13.30		13.07	0.00204	0.000200
0.035	13.99	0.0075	0.443	-15.62	19.7	12+43	0.00214	0.000319	0.066	16.16	0.0044	0.511	-14.50	34.4	12.12	0.00212	0.000124
0.043	15.01	0.0092	0.476	-14.71	Z4.l	13.34	0.00219	0.000235	0, 091	17.02	0.0137	0.538	-13.69	46.2	12.41	0.00215	0.000086
0.053	16.04	0.0113	0.508	-13.80	29.8	14.26	0.00224	0.000175	0.121	18.25	0.0182	0.577	-12.53	64.2	17.12	0.00219	0.000065
0.068	17.10	0.0145	0.542	-17.86	38.2	15.20	0.00228	0.000126	0.156	19.21	0.0235	0.608	-11.64	82.8	18.CZ	0.00220	0.000053
4.000																	
0.088	18.04	0.0148	0.571	-12-03	49.4	16.03	0.00230	0.000095	0.196	20.18	0.0295	0.638	-10.73	104.1	18.93	0.00219	0.000046
0.000	10 00	0 0 74 1	0 405	-11 00	63.5	16 96	0.00231	0.000077	0.746	21.12	0.0371	0.668	-9.84	130.7	19.81	0.00216	0.000039
0.115	19.09	0.0241	0.007	-10 70	83 1	17.85	0 00228	0.000066	0-296	22.14	0.0446	0.700	- 8.89	157.3	20.76	0.00211	0.000037
0.140	20.09	0.0518	0.030	-10.20			0.00220	0.00006+	0 160	22 14	0 0541	0 737	-7.95	191.3	21.70	0.00700	0.000035
0.188	21.33	0.0401	0.010	-9.10	102+0	10.90	0.00223	0.000050	0.300	23.14	A AF13	0 774	- 4 15	1	21 51	0 00203	0.000016
0.233	22.56	0.0497	0.715	-8.01	130.0	20.05	0.00214	0.000051	0.340	22.93	0.0522	0.125	- 0+ 13	103.7	21	0.00103	
		0 0404	0 740	-7 03	158.0	21.03	0.00198	0.000047	0.421	24.31	0.0635	0.769	-6.85	223.8	22.80	0.00190	0.000034
0.283	23.00	0.0004	0.784	-6.06	107 0	77 00	0.00178	0.000044	494 0	25 40	0.0749	0.805	-5.75	263.7	23.91	0.00172	0.000032
0.333	24.15	0.0711	0.784	-0.00	187+0	22.00	0.00178	0.000044	0.476	23.43	0.0147	0 843		101 4	26 01	0.00152	0.000010
0.383	25.80	0.0817	0.817	-5-13	212-1	22.43	0.00120	0.000040	0.574	20.07	0.0002	0.043		303.0	2,00	0.00130	0.000031
0.458	27.28	0.0977	0.864	-3.81	237+2	24.24	0.00120	0.000035	0.646	21.60	0.0415	0.814	- 3+ 20	3434 7	20.00	0.00190	0.000021
0.558	29.12	0.1191	0.923	-2.17	313.3	25.88	0.00076	0.000027	0.721	28.80	0.1088	0.911	-2.64	383.4	51+01	0-00108	0.000023
								0.000014	0 704	20 70	0 1202	0.919	-1.80	471.3	27.85	0.00486	0.000019
0.658	30.50	0.1404	0.966	-0.95	304.3	21.11	0.00045	0.00018	0.198	27+10	0.1202	0.737	- 0 03	474 6	34 73	0.00667	0.00014
0.758	31.36	0.1617	0.993	-0.19	425.6	27.87	0.00020	0.000011	0.896	30.64	0.1353	0.954	-0.92	10.7	20.75	0.00651	0.000014
0.858	31.63	0.1831	1.002	0.05	481.8	28.11	0.00000	0.000005	0.996	31.28	0.1504	0.989	-0.31	224.1	27.34	0.00036	0.000009
1.008	31.62	0.2151	1.002	0.05	566.0	28.10	C. 00000	-0.000001	1.146	31.62	0.1730	1.000	0.00	609.5	29.66	0.00012	0.00003
1.158	31.57	0.2471	1.000	0.00	650.3	28.06	0.00000	0.000000	1.296	31.65	0.1957	1.001	0.03	689.4	29.69	0.00800	-0.000001
									1.446	31.62	0.2183	L-000	0.00	769.Z	29.65	0.00000	0.00000

R (JN 1	90171-2	X=46	• Z=	с.					R UN :	90171-2	X=58.	. Z=	0.				
UI -	31.40		D1 •	0.2837	BET	- 0.002	R RD2	2 . 2843.	UI -	31.38		01 -	0.3359	BETA	-0.001	ROZ	- 3384.
CF/2=	0.0010	4	02 =	0.1810	в	= 1.915	і н	• 1.567	CF/2=	0.0009	8	02 - 4	0.2161	8	= 2.045	i H	- 1.554
F #	0.0020	0	DC 4	8.7785	P+	= 0.000)0 G	+11.200	F -	0.0020	0	DC =1	0.7416	P+	-0.000	6 G	=11.405
К =	-0.5C8E	-09	099 =	1.2818	¥0+	= 0.061	9		К =	0.1836	-09	099 =	1.5208	¥0+	- 0.064	0	
		-														-	
¥	U	Y/DC	ι/υΙ	(0-01)/0	I# Y+	U+	T AU	T AUL AN	¥	U	Y/DC	U/UI	(0-01)/0	¢+ γ+	U+	TAU	TAULAM
0.005	2.78	0.0006	0.088	-28.21	2.5	2.73	0.00122	0.000855	0.005	2.72	0.0005	0.087	-29.20	2.4	2.77	0.00115	0.000880
0.006	2.85	0.0007	0.091	-28.14	3.0	2.80	0.00122	0.000632	0.006	2.83	0.0006	0.090	-29.09	2.9	2.89	0.00116	0.000863
0.007	3.02	0.0006	0.096	-27.98	3.6	2.97	0.00123	0.000809	0.007	3.09	0.0007	0.099	-28.83	3.4	3.15	0.00118	0.000867
0.009	3.67	0.0010	0.117	-27.34	4.6	3.61	0.00127	0.000826	0.009	3.86	0.0008	0.123	-28.04	4.4	3. 93	0.00123	0.000829
0.011	4-67	0.0013	0.147	-26.40	5.6	4.54	0.00133	0.000880	0.011	4.68	0.0010	0.149	-27.21	5.4	4.77	0.00128	0.000845
0.013	5.55	0.0015	0.176	-25.48	6.6	5.46	0.00139	0.000663	0.014	6.06	0.0013	0.193	~25.80	6.9	6.17	0.00137	0.000817
0.016	7.03	0.0018	0.223	-24.03	6.1	6.91	0.00149	0.000802	0.017	7.34	0.0016	0.234	-24.50	8.3	7.48	0.00145	0.000738
0.019	7.98	0.0022	0.254	-23.10	9.6	7.84	0.00155	0.000702	0.020	8.32	0.0019	0.265	-23.50	9.8	8.48	0.00151	0.000626
0.023	9.33	0.0026	0.296	-21.77	11.7	9.17	0.00163	0.000580	0.023	9.26	0.0021	0,295	-22.54	11.3	9.44	0.00157	0.000543
0.027	10.56	0.0031	0.335	-20.56	13.7	10.38	0.00171	0.000468	0.027	10.36	0.0025	0.330	-21.42	13.2	10.56	0.00164	0.000440
0.031	11.35	0.0035	0.361	~19.78	15.7	11.16	0.00176	0.000387	0.031	10.94	0.0029	0.349	-20.83	15.2	11.15	0.00168	0.000363
0.035	12.07	0.0040	0.384	-19.07	17.8	11.87	0.00180	0.000322	0.039	12.32	0.0036	0.393	-19.42	19.1	12.55	0.00176	0.000254
0.041	12.63	0.0047	0.407	-18.33	20.8	12.61	0.00184	0.000243	0.044	12.78	0.0041	0.407	-18.96	21.5	13.02	0.00179	0.000211
0.049	13.65	0.0056	0.433	-17.53	24.9	13.41	0.00189	0.000185	0.054	13.64	0.0050	0.434	-18.08	26.4	13.89	0-00184	0.000157
0.059	14.54	0.0067	0.462	-16.65	30.0	14.29	0.00194	0.000142	0.064	14.33	0.0060	0.457	-17,37	31.3	14.61	0.00188	0.000120
0 074	15 77		0 483	-15 08	17 4	14 84	0.00107	0.000104	A 070	16 13	A AC74	A 483	-14 57	14 7	18 41	0 00107	
0.009	16 36	0.0004	0.520	-13.76	50 3	14.70	0.00197	0.000108	0.000	15.12	0 00074	0.402	-16.05	30.7	14 03	0.00192	0.000095
0.174	17.20	0.0161	0.544	-14.04	67.9	16.90	0.00203	0.000067	0.134	16 01	0.0175	0.530	-14 78	10.1	17 31	0.00177	0.000073
0 140	17 84	0 0170	0 547	-17 30	75 4	17 66	0.00200	0.000052	0.150	17 41	0.0125	0.537	-14 03	77.0	17 04	0.00200	0.000034
0.176	18.51	0.0198	0.568	-12.25	88.3	18.20	0 00200	0.000047	0 100	10 47	A A145	A \$80		101.4		0.00205	0.000041
0	10.71		0.000		0012		0.00207		0.207	10.47	0.0115	0.987	-13410	102.4	10.02	0.00204	0.000038
0.224	19.48	0.0255	0.619	-11.79	113.7	19.15	0.00210	0.000039	0.284	19.61	0.0264	0.625	-11.99	139.1	19.99	0.00204	0.000032
0.274	20.40	0.0312	C.648	-10.89	139.1	20.06	0.00209	0.000035	0.359	20.70	0.0334	0.660	-10.88	175.8	21.09	0.00203	0.000029
0.324	21.18	0.0369	0.673	-10.12	164.5	20.82	0.00206	0.000033	0.434	21.77	0.0404	0.694	-9.79	212.6	22.19	0.00201	0.000027
0.399	22.23	0.0455	0.706	-9.09	202.6	21.85	0.00199	0.000030	0.509	22.73	0.0474	0.724	-8.62	249.3	23.16	0.00196	0.000025
0.474	23.34	0.0540	0.742	-8.00	240.6	22.95	0.00192	0.000029	0.609	23.88	0.0567	0.761	-7.64	298.3	24.34	0.00187	0.000023
0.549	Z4 • 45	0.0625	0.777	-6.91	278.7	24.03	0.00183	0.000027	0.709	24.91	0.0660	0.794	-6.60	347.2	25.38	0.00173	0.000022
0.624	25.40	0.0711	0.807	-5.98	316.8	24.96	0.00169	0.000025	0.809	26.02	0.0753	0.829	-5,47	396.2	26.51	0.00158	0.000020
0.699	26.37	0.0796	0.838	-5.02	354.8	25.92	0.00155	0.000024	0.909	27.03	0.0846	0.861	-4.43	445.2	27.55	0.00141	0.000019
0.799	27.47	0.0910	0.873	-3.94	405.6	27.00	0.00130	0.000021	1.059	Z8.30	0.0986	0.902	-3.14	510.6	28.84	0.00110	0.000016
0.899	28.48	0.1024	0.905	-2.94	456.4	28.00	0.00104	0.000018	L+209	29.52	0.1126	0.941	-1.89	592.1	30.08	0.00078	0.000012
1 040	30 6 4	0 1105	0 061	-1.51	637.E	20 43	0 00070	0.000013	1 (40	30 77	A 1313		- 0 4 2				
1 100	30.05	N 1744	0.951	-1+51	109 7	10 47	0.00070	0.000013	1.404	30.77	0.1312	0.460	-0.63	090-1	51. 33	0.00042	0.00007
1 100	11 47	A 1604	1 000	-0.52	710 7	30.42	0.00042	0.000004	1.609	34+34	0.1498	0.998	-0.08	0.851	31.90	0.00016	0.000004
1 500	31.51	0.1977	1 001	-0.01	411 7	37 08	0.00014	0.000000	1.809	31.92	0.1064	1.001	0.04	0.650	32.01	0.00000	0.000001
1 700	31.51	0 1044	1.001	0.04	011 2	30.04	0.00000	0.000000	2.104	21+38	A . 1 40 3	1.000	0.00	1032.9	31.98	0.00000	0.000000
F . 1		0.047		3.00	· . J . J		0400000										

R UN :	90171-2	X=70	. 2-	٥.					RUNI	90171-2	X=82.	. 2* (0.	٢			
										31.34		D1 = (0.4364	BETA	-0.018	ROZ	• 4450.
01 =	31.33	-	D1 -	0.3860	BEIN	=-0.00	N N D 2	. 3410.	CF/2=	0.0008	8	02 = 1	0.2846	8	- 2.255	н	- 1.534
CF/2=	0.0009	2	D2 =	0,2506	в	= 2.103	5 M	= 1.540		0.0015	à	00 14	4.6925	P.	+-0.000		#11.71Z
f =	0.0020	ю	DC -1	2.6946	P+	=-0.000	30 G	+11.537		A 1176		000 -	2 0255	1.04	. 0		
К =	0.1136	-08	D99 =	1.7713	¥0+	- 0.065	58		• •	0.2320	-40	0,, -				•	
¥	U	Y/DC	6/01	{U-U[]/	U* Y+	U+	TAU	TAULAN	Ŷ	U	¥70C	0701	(0-01)/0	ф ¥+	U+	110	TAULAN
	• ••		0 110	- 20 . 27		1 41	0-00314	0.001160	0.005	3.00	0.0003	0.096	-30.44	2.3	3.22	0.00107	0.000975
0.005	2.27	0.0004	0.110			3.01	0.00116	0.001140	0.006	3.35	0.0004	0.107	-30.07	2.8	3.60	0.00109	0.000934
0.006	3.81	0.0005	0.122	-28.84	<u></u>		0.00010	0.001081	0.007	3.58	0.0005	0.114	-29.82	3.3	3.84	0.00111	0.000892
0.007	4.18	0.0006	0.133	-28.50	3. 3	4.34	0100114	0.001023	0.009	4.32	0.0008	0.138	- 29.03	4.2	4.64	0.00115	0.000761
0.008	4.66	0.0006	0.149	-27,99	3.8	4.89	0.00122	0.000887	0.001		0.0008	A 171	-77 84	5.6	5.83	0.00122	0.000731
0.010	5.52	0.0008	0.176	-27.09	4.8	5.79	0.05127	0.000854	0.012	2.43	0.0000	0.173	-1,104				
0.013	4 85	0.0010	0.219	-25.69	6.2	7.19	0.06136	0.000722	0.015	6.65	0.0010	0.212	-26.52	7.0	7.15	0.00130	0.000694
		0.0013		- 14 74			0.00141	0.000600	0.018	7.42	0.0012	0.237	-25.69	8.4	7.58	0.00135	0.000606
0.016		0.0013	0.247	- 23. 16		0.13	0.00150	0.000488	0.022	8.70	0.0015	0.278	-24.32	10.2	9.35	0.00143	0.000500
0.020	9.08	0.0019	0.240	-23.30		7.33	0.00154	0.000400	0.026	9,87	0.0018	0.315	-23.06	12.1	10.60	0.00151	0.000405
0.024	9.66	0.0019	0.308	-22.75	11.2	10.14	8.00154	0.000400	0.030	10.36	0.0020	0.331	-22.53	13.9	11.13	0.00154	0.000348
0.030	10.80	0.0024	0.345	-21.56	14.3	11.33	0.00161	0.00308									
				30.34			0 00168	0.000124	0.036	11.26	0.0025	0.359	-21.56	16.7	12.10	0.00160	0.000264
0.038	11.45	0.0030	0.361	-20.34	10.1	12.24	0.0013/	0.000224	0.044	12.06	0.0030	0.385	-20,70	20.4	12.96	0.00165	0.000197
0.048	12.92	0.0038	0.412	-19.33	22.8	13.56	0100114	0.000170	0.054	13.10	0.0037	0.418	-19.59	25.1	14.07	0.00171	0.000152
0.063	13.81	0.0050	0,441	-18.39	30.0	14.50	0.00114	0.000118	0.040	16 00	0 0067	A 447	-18 62	12 1	15.04	0.00176	0.000107
0.083	14.71	0.0065	0.470	-17.45	39.5	15.44	0.00184	0.00008Z	0.007	14.00	0.0047	0 447	-17 46	10 0	15 77	0 00180	0.000083
0.108	15.66	0.0085	0,500	-16.45	51.3	16.44	0.06164	0.000065	0.084	[4.03	0.0037	0.46/	-1(***	3740	17.12	0.00100	
									0.104	15.25	0.0071	0.487	-17,28	48.3	16.38	0.00184	0.000063
0.133	16.36	0.0105	0.522	-15.72	63.Z	11.11	0.00192	0.000054	0.120	15.02	0.0088	0.508	-16-57	59.9	17.10	0.00187	0.000051
0.183	17.19	0.0144	0.549	-14.84	87.0	16.04	C*0C142	0.000042	0.164	14 67	0 0105	0 579	-15.47	71.5	17.80	0.00191	0.000044
0.258	18.86	0.0203	0.602	-13.09	122.7	19.80	0.00201	0.00003Z	0.124	10.77	0.0105	0.321	-14 00		14 44	0.00195	0.00036
0.333	19.82	0.0262	0.633	-12.08	158.3	20.81	0.00202	0.000028	0.204	17.39	0.0134	0.333	-14.90	1 20 4	10.00	0.00100	0.000070
0.408	20.71	0.0321	0.661	-11.14	194.0	21.74	0.00201	0.000025	0.279	18.64	0,0190	0.555	-13.04	159.0	20.03	0.00144	0.000024
			A 484	-10.05	241 5	27 B3	0.06197	0.000023	0.354	19.54	0.0241	0.624	-12.67	164.4	21.00	0.00200	0.000025
0.508	21. 13	0.0400	0.074	-10.03	241.5	22.03	0.00101	0.000023	0.454	20.64	0.0309	0.659	-11.49	210.9	22.18	0.00201	0.000023
0.608	22.91	0.0479	0.731	-0.04	289-1	24.05	0.00142	0.000021	0.554	21.68	0.0377	0.692	-10.38	257.3	23.29	0.00200	0.00021
0.708	23.88	0.0558	0.762	÷7.82	330.0	25.07	0.00145	0.000020	0 454	37.45	0.0445	0.723	-9.34	303.8	24.13	0.00198	0.000019
0.608	24.86	0.0636	0.793	-6.80	384.1	26.09	0+00110	0.000019	0.004	14.07	0 0517	3 747	-7 85	373 6	25.01	0.00187	0.000017
0.958	26.22	0.0755	0.837	-5.36	455.5	27.52	0.00158	0.000017	0.804	24.03	0.0347	0.767	-1.05	31313	23.01		
1 108	27.38	0.0873	0-876	-4.14	526.B	28.74	0.00134	0.000015	1.004	25,60	0.0683	0.817	-6.16	466.4	27.50	0.00164	0.000015
1 300	10.00	0 1010	0 071		421 4	30.37	20330.3	0.000011	1.204	27.00	0.0819	0.862	-4.65	559.3	29.01	0.00139	0.000014
1.508	20.73	0.1030		-1 10	714 0	11 60	6 00063	0.000008	1.404	28.35	0.0956	0.905	-3.20	652.2	30.46	0.00110	0.00011
1.500	30.10	0.1188	0.961	- 1+ 30		31.57	0.00075	0.000005	1.604	29.56	0.1092	0.943	-1.91	745.1	31.75	0.00080	0.00009
1.708	30.94	U.1345	0.987	-0.41	812.0	52.41	0.00035	0.000005	1.804	30.51	0.1228	0.974	-0.89	838.0	32.78	0.00050	0.000004
2.008	31.32	0.1582	1.000	-0.01	954.7	32.88	C.0C004	0.000002									
3 300	11 18	A 1414	1 001	0.05	1097.3	33.63	C.CC000	0.000000	2.104	31.20	0.1432	0.996	-0.14	977.3	33.52	0.00016	6.00003
4.308	31.030	0.1010	1.000	0.09	1770 0	17 89	0.00000	0.000000	2.404	31.35	0.1636	1.001	0.02	1116.7	33.68	0.00000	0.000001
2.608	31.33	0.2054		0.00	1434.4	36.07			2.704	31.34	0.1840	1.000	0.00	L256.0	33.67	0.00000	0.00000

RUN:	90171-2	X = 90	. 1= 0	o.				RUN:	90871-3	X= 2.	Z= 0	•			
							802 = 4762.	117 .	31.62		01 + 0	.0666	BETA	-0.001	RDZ = 626.
	31.20			3 3034		- 2 330	H = 1.571	CE/2.	0.0013	1	02 = 0	.0394	8 .	2.629	H = 1.689
C+72-	0.0008	0	02 -14	7474			6 =11.687	£	0.0037	Ś	0C - 1	.8285	P+	-0.0000	6 -11.201
<u>t</u> •	0.0020	°				- 0.0483	G =11100,		0.105F	- 08	049 * (. 31 59	VC+	- 0,1030	
ĸ •	0.3261	-08	099 - 7	*+1044		- 0.0883		~ -	•••••	••	••••				
Y	U	¥/0C	0701	(0-01)/0	ј» ¥+	U+	TAULAM	۲	U	Y/DC	u/u1	{0-01770	¥+	U+	T AUL AM
0.007	4.19	0.0004	0-140	-29.34	3.1	4. 79	0.001062	0.004	3.88	0.0024	0.123	-24.10	2.5	3.37	0.001444
0.008	6.76	0.0005	0.152	-28.94	3.6	5.19	0.001002	0.005	4.00	0.0029	0.126	-24.00	3.1	3.47	0.001413
0 000	5.13	0.0006	0.164	-78.54	4.0	5.60	0.000942	0,006	4.55	0.0034	0.144	-23.51	3.6	3.95	0.001388
0.010	5.51	0.0006	0.177	-28.10	4.5	6.03	0.000842	0.007	5.36	0.0040	0,170	-22.81	4.2	4,66	0.001365
0.012	6.42	0.0007	0.205	-27.13	5.4	7.00	0.000795	0.008	5.96	0.0045	0.108	-22.29	4.8	5.18	0.001494
0.014	7.21	0-0009	0.231	-26.27	6.3	7.87	0.000714	0.010	7.64	0.0056	0-242	-20.83	6.0	6.64	0.001391
A A17	8.07	0.0011	0-258	-25.33	7.7	8.80	0.000566	0.012	9.05	0.0067	0.286	-19.60	7.1	7.86	0.001243
0.020	9.78	0.0013	0.290	-24.23	9.1	9.90	0.000485	0.014	10.32	0.0078	0.326	-18.50	5.3	8.56	0.001110
0 024	9.84	0.0015	0.315	-23.40	10.9	10.74	0.000384	0.017	11.70	0.0095	0.370	-17.30	10.0	10.16	0.000420
0.031	10.95	0.0020	0.350	-22.19	14.1	11.95	0.000276	0.020	13.07	0.0111	0.413	-16.11	11.7	11.35	0.000773
							0.000101		14 21	0.0127	0.449	-15, 12	13.5	12.34	0.000657
0,041	12.00	0.0026	0.384	-21.04	18./	13.09	0.000141	0.023	15 14	0.0144	0.479	+14.31	15.2	13.15	0.000573
0.051	12.74	0.0032	0.407	-20.23	23.2	13.90	0.000147	0.020	12.11	0 0166	n. \$11	-13.42	17.5	14.04	0.000463
0.066	13.79	0.0042	0.441	-14.04	30.1	15.04	0.000111	0.030	17 32	0 0103	0.545	+12.51	20.4	14.56	0.000371
0.086	14.466	0.0054	0.469	-18.14	39.2	16.00	0.000080	0.035	10.20	0 0220	0 573	-11.74	23.3	15.72	0.000311
0.106	15.26	0.0067	0.488	-17.48	48.4	10.00	0.000001	0.040	10.10	0.0220					
0.141	16.61	0.0089	0.524	-16.23	54.4	17.90	0.00046	0.045	18.67	0.0248	0.591	-11.25	26.2	16.22	0.000260
A 144	14 41	0 0105	0.531	-15.99	75.8	18.14	0.000040	0.055	19.88	0.0302	0.629	-10.20	32.0	17.27	0.00021
0.100	17 11	0.0117	0.554	-15.22	98.7	18.92	0.000032	0.065	20.87	0.0357	0.660	-9.34	37.8	18.13	0.000144
0 244	18 15	0.0169	0.587	-14.11	121.6	20.03	0.000028	0.075	21.66	0.0412	0.685	-8.65	43.5	18.82	0.000171
0.316	L8.89	0.0200	0.604	-13.52	144.4	20.62	0.000026	0.090	22.95	0.0494	0.726	-7.53	52.2	19.94	0.000154
					100 7	11 70	0.000022	0.105	26.02	0.0576	0.760	-6.60	60.9	20.87	0.00013
0.416	19.97	0.0264	0.838	-12.39	190.2	21.19	0.000022	0.100	24.98	0.0458	0.790	-5.76	69.6	21.70	0.000123
0.516	21.10	0.0327	0.6/6	-11.04	233.9	23.07	0.000018	0.115	24.91	0.0740	0.820	-4.94	78.2	22.52	0.00010
0.616	21.97	0.0341	0.702	-10.10	201-0	23.90	0.000017	0.155	26 07	0.0849	0.853	-6.04	89.8	23.43	0.0009
0.766	23.09	0.0486	0.758		330.2	23.20	0.000014	0 100	24.07	0.0986	0.688	-3.08	104.2	24.38	0.00007
0.916	24.37	0.0581	0.114	-1-24	410.0	20.39	0.000010	4.104	20101						
1.116	25.86	0.0708	0.827	-5.92	510.3	28.22	0.000014	0.205	28.99	0.1123	0.917	~ 2. 20	110.7	23.18	0.00006
1.314	27.26	0.0835	0.871	-4.39	601.7	29.74	0.000013	0.230	29.73	0.1260	0.940	-1.64	133.2	29.83	0.00005
1.514	28.40	0.0961	0.908	-3,14	693.2	30.99	0.00010	0.255	30.34	0.1396	0.960	-1-11	147.6	20.30	0.00004
1.714	29.51	0.1088	0.944	-1.91	784.7	32.22	0.00008	0.305	31.21	0.1670	0.987	-0.35	116.5	27.12	0.00002
2.016	30.70	0.1278	0.981	-0.64	921.9	33.50	0.000005	0.355	31,62	0.1943	1.000	0.01	205.4	27.47	0.00001
	11 75	0 1440		-0.04	1059.0	34.10	0.00002								
2.310		0.1650	1.001	0.03	1196.7	34.16	0.000001								
2.010	21 20	0 1840	1.000	0.00	1333.4	34.14	0.000000								
2.710	74460	~		31.00											

111 H 111 1

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RUNI	90871-3	X=10	. z= c	.					RUNI	90871-3	3 X=22	. z.	o.				
UI = CF/2=	31.34	8	D1 = 0 D2 = 0	0.1369 0.0799	BETA B	0.002 - 3.809	ROZ H	• 1258. • 1.713	U[+ Cf/2=	31.52 0.0007	7	01 = 02 =	0.2348 0.1372	BET. B	0.003 - 4.897	RD H	² = 2172. = 1.712
F • K •	0.0037 0.851E	-09	DC = 4 D99 = (4.3628 0.5362	₽+ ¥0+	0.000 - 0.119	0 G 15	-13.264	F = K =	0.0031	-09	DC . D99 .	8.4864 0.8914	¥0+	-0.000 - 0.135	0 G 5	=15.025
۲	υ	¥/0C	0701	(0-01)/0	• ••	U+	TAU	TAULAH	v	υ	Y/DC	0701	(U-UI)/U	• ¥•	U+	TAU	TAULAN
0.005	3.23	0.0011	0.103	-28.59	2.5	3.28	0.00137	0.001100	0.006	2.57	0.0007	0.082	-33.19	2.6	2.95	0.00108	0.000791
0.006	3.48	0.0014	0.111	-28.33	3.0	3.54	0.00140	0.001060	0.007	2.89	0.0006	0.092	-32.82	3.1	3.32	0.00111	0.000788
0.007	3.95	0.0016	0.1Z6	-27.86	3.5	4.01	0.00145	0.001020	0.009	3.48	0.0011	0.110	-32.15	3.9	3.99	0.00119	0.000783
0.008	4.49	0.0018	0.143	-27.31	4.0	4.56	0.00152	0.000957	0.011	4.27	0.0013	0.136	-31.24	4.8	4.90	0.00128	0.000784
0.010	5.45	0.0023	0.174	-26.32	4.9	5.55	0.00163	0.000973	0.014	5.63	0.0014	0.178	- 29.69	6.1	6.45	0.00144	0.000726
0.013	6.75	0.0030	0.215	~25.01	5.4	6.86	0.00179	0.000866	0.018	7.08	0.0021	0.225	-28.02	7.9	8.12	0.00161	0.000605
0.016	8.09	0.0037	0.258	-23.64	7.9	8.23	0.00194	0.000761	0.022	8.30	0.0026	0.263	-26.62	9.6	9.51	0.00175	0.000495
0.019	9.26	0.0044	0.296	-22.45	9.4	9.42	0.00207	0.000669	0.026	9.12	0.0031	0.289	-25,68	11.4	10.45	0.00185	0.000408
0.023	10.42	0.0053	0.333	-21.27	11.4	10.60	0.00220	0.000550	0.033	10.34	0.0039	0.326	-24.28	14.5	11.85	0.00199	0.000304
0.027	11.50	0.0062	0.367	-20.18	13.3	11.69	0.00232	0.000447	0.041	11,44	C. CO48	0.363	-23.03	18.0	13.11	0.00211	0.000236
0.031	12.36	0.0671	0.394	-19.30	15.3	12.57	0.00241	0.000369	0.051	12.41	0.0060	0.394	-21.91	22.3	14.23	0.00221	0.000183
0.036	13.11	0.0083	0.418	-18.54	17.8	13.33	0.00248	0.000302	0.061	13.23	0.0072	0.420	-20.98	26.7	15.16	0.00229	0.000147
0.043	14.00	0.0099	0.447	-17.64	21.2	14.23	0.00256	0.000235	0.076	14.32	0.0090	0.454	-19.72	33,3	16.41	0.00240	0.000114
0.051	14.79	0.0117	0.472	-16.83	25.2	15.03	0.00261	0.000190	0.095	15.18	0.0113	0.482	-18.74	42.1	17.40	0.00246	0.003091
3.061	15.66	0.0140	0.500	-15.95	30.1	15.92	0.00266	0.000158	0.116	15,90	0.0137	0.505	-17.90	50.B	18.23	0.00250	0.000077
0.076	16.64	0.0174	0.531	-14,95	37.5	16.92	0.00269	D.000129	0.146	16.99	0.0172	0.539	-16.66	64.0	19.47	0.00255	0.000066
0.101	18.02	0.0232	0.575	-13.55	49.9	18.32	0.00267	0.000104	0.191	18.33	0.0225	0.581	-15.12	83.7	21.01	0.00257	0.000057
0.126	19.17	0.0289	0.612	-12.38	62.2	19,49	0.00260	0.000091	0.236	19.48	0.0278	0.618	-13.81	103.4	22.33	0.00253	0.000052
3.151	20.25	0.0346	0.646	-11.28	74.6	20.59	0.00249	0.000085	0.2R6	20.72	0.0337	0.657	-12.39	125.3	23.75	0.00245	0.000049
0.176	21.14	0.0403	0.674	-10.35	86.9	21.49	0.00233	0.000080	0.336	21.85	0.0396	0.693	-11.09	147.2	25.05	0.00232	0.000047
0.701	77.15	0.0461	0.707	-9.35	99.3	22.52	0.00219	0.000077	0.386	22.98	0.0455	0.729	-9.80	169.1	26.34	0.00216	0.000045
0.241	23.61	0.0552	0.753	-7.86	119.1	24.01	0.00193	0.000072	0.436	24.07	0.0514	0.764	-8.54	191.0	27.59	0.00197	0.000042
0.281	25.01	0.0644	0.798	-6.44	138.8	25.43	0.00168	0.00066	0.486	25.15	0.0573	0.795	-7.30	213.0	28.84	0.00176	0.000041
0.321	26.28	0.0736	0.838	-5.15	158.6	26.72	0.00143	0.000062	0.536	26.13	0.0632	0.829	-6.18	234.9	29.95	0.00153	0.000039
3.381	28.11	0.0873	0.897	-3.29	148.2	28.58	0.00116	0.000050	0.586	27.04	0.0691	0.858	-5.14	256.B	31.00	0.00131	0.000036
0.426	29.29	0.0976	0.935	-2.08	210.5	29.78	0.00101	0.000039	0.661	28.50	0.0779	0.904	-3.47	289.6	32.67	0.00108	0.000031
0.476	30.34	0.1091	0.968	-1.02	235.2	30.85	0.00089	0.00029	0.736	29.69	0.0867	0.942	-2.10	322.5	34.03	0.00087	0.000024
0.551	31.20	0.1263	0.995	-0.15	272.2	31.72	0.00063	0.000016	0.811	30.60	0.0956	0.971	-1.06	355.4	35.08	0.00068	0.000018
0.626	31.38	0.1435	1.001	0.03	309.3	31.90	0.00029	0.000005	0.911	31,36	0.1073	0.095	-0.19	399.2	35.54	0.00044	0.000010
0.701	31.38	0.1607	1.001	0.03	346.3	31.90	0.00000	~0.000002	1.011	31.54	0.1191	1.001	0.02	443.0	36.16	0.00018	0.00004
0.801	31.34	0.1836	1.000	0.00	395.7	31.87	0.00000	0.000000	1.111	31.57	0.1309	1.001	0.05	486.8	36.19	0.00000	-0.000000
									1.261	31.52	0.1486	1.000	0.00	552.5	36.14	0.00000	0.000000

RUN:	90871-3	3 X=34	. Z=	o.					RUN:	90871-3	3 X=46.	. z.	0.				
UI =	31.50		D1 = 1	0. 3271	BETA	-0.002	en:	. 1010.	1 . .	31.39		n1 • ·	C.423P	BETA	=-0,001	. RDZ	• 3863.
CF/2*	0.0004	55	02 =	0.1915	B	- 5.761	н	= 1.708	CF/2=	0.0005	17	02 -	0.2450	8	= 6.554	н	+ L.730
F +	0.0031	15	DC -1	2.8194	P+	-0.000	0 6	=16.246		0.0031	16	DC =1	7.6945	P+	=-0.000	a G	=17.616
к. +	0.306	-09	D99 -	1.2300	v0+	- 0.147	ň	-101240	k .	0.6005	-10	099 *	1.5807	VO+	- C.151	10	
			577 -			- 01 141	•			010000						•	
Y	υ	Y/DC	0701	(0-01)/0	j ≇ ¥+	U٠	TAU	TAULAH	Y	U	Y/DC	0701	(0-0[)/0	• Y+	U+	TAU	TAULAN
0.007	2.50	0.0005	0.079	-36.08	2.7	3.11	0.00095	0.000690	0.011	2.75	0.0006	0.088	-38.09	4.2	3.66	0,00090	0.000531
0.008	2.69	0.0006	0.085	-35.84	3.1	3.35	0.00097	0.000688	0.014	3.52	0.0008	0.112	-37.07	5.3	4.68	0.00099	0.000518
0.010	3.37	0.0007	0.107	-35.00	1.9	4.19	0.00105	0.000686	0.017	4.44	0.0010	0.142	~35,84	6.4	5.91	0.00110	0.000504
3.012	3.93	0.0009	0.125	-34.31	4.7	4.89	0.00112	0.000687	0.021	5.73	0.0012	0.183	-34.13	7.9	7.62	0.00126	0.000473
0.015	4.99	0.0011	0.158	-32.99	5.9	6.20	0.00124	0.000649	0.026	6.76	0.0015	0.215	- 32.76	7.8	9.00	0.00138	0.000397
0.019	6.48	0.0015	0.206	-31.13	7.5	6.07	0.00142	0.000553	0.033	8.02	0.0019	0.256	-31.08	12.5	10.67	0.00153	0.000304
0.023	7.55	0.0018	0.240	-29.80	9.1	9.40	0.00155	0.000471	0.043	9.24	0.0024	0.294	-29.46	16.2	12.29	0.00167	0.000214
0.027	8.34	0.0021	0.265	-28.82	10.7	10.37	0.00164	0.000393	3.055	10.39	0.0031	0,331	-27.94	Z7.8	13.81	0.00180	0.000157
0.033	9.34	0.0025	0.297	-27.57	13.2	11.62	0.00175	0.000297	0.070	11.49	0.0040	0.366	-76.47	26.4	15.28	0.00193	0.000116
0.040	10.44	0.0031	0.331	-26.20	16.0	12.99	0.00188	0.000232	0.090	12.19	0.0051	0.388	-25.54	34.0	16.21	0.00200	0.000086
0.052	11.51	0.0040	0.365	-24.87	20.8	14.32	0.00200	0.000166	0.120	13.33	0.0068	0.425	-24.03	45.3	17.72	0.00211	0.00064
0.072	12.63	0.0056	0.401	-23.48	28.9	15.72	0.00211	0.000111	0.160	14.35	0.0090	0,457	-72.67	60.4	19.08	0.00220	0.000050
0.10Z	14.06	0.0079	0.447	-21.69	41.0	17.50	0.00225	0.000077	0.200	15.25	0.0113	0.486	-21.47	75.5	23.28	0.00228	0.000042
0.137	15.14	0.0107	0.481	-20.35	55.1	18,84	0.00233	0.000060	0.250	16.23	0.0141	0,517	-20.17	94.4	21.58	0.00235	0.000037
0.177	16.18	0.0138	0.514	-19.05	71.3	20.14	0.00239	0.000050	0.300	17.07	0.0170	0.544	-19.04	113.3	22.71	0.00239	0.00035
	13.14																0.000011
0.222	17.14	0.01/3	0.244	-11.81	89.2	21.33	0.00242	0.000044	0.350	11.10	0.0198	0.700	-10.13	122.2	23.02	0.00240	0.000033
0.272	10.17	0,0212	0.511	-10.50	109.6	22.01	0.00244	0.000041	0.400	18.39	0.0220	0.742	-11.05	12141	24.12	0.00245	0.000032
0.322	19.09	0.0251	0.606	-12.99	129.8	23.15	0.00243	810000.0	0.475	19.01	0.0268	0.031	+15.40	11111	20.37	0.00246	0.000030
0.312	20.02	0.0290	0.636	-14.28	150.0	24.91	0.00240	0.000037	0, 550	20.88	0.0311	0.005	-13.98	207.7	21.11	0.002.2	0.000028
0.447	21.4Z	0.0348	0.580	-12.55	180.3	20.65	0.00233	0.000035	0.625	21.90	0.0353	0.455	-12.03	230.0	29.12	0.00236	0.000027
0.522	22.58	0.0407	0.717	-11.10	210.6	28.09	0.00220	0.000033	3.700	22.88	0.0396	0.729	-11.32	264.4	30.43	0.00227	0.000026
0.597	23.91	0.0465	0.759	-9.45	240.8	29.75	0.00206	0.000032	0.775	23.74	0.0436	0.756	-10.18	292.7	31.57	0.00214	0.00026
0.697	25.33	0.0543	0.804	-7.68	281.2	31.52	0.00177	0.000030	0.850	24.79	0.0480	0.790	-8.78	321.0	32.97	0.00203	0.000025
0.797	26.88	0.0621	0.853	-5.74	321.6	33.45	0.00147	0.003027	0.925	25.64	0.0523	0.817	-7.64	349.3	34.11	0.00186	0.000024
0.897	28.25	0.0699	0.897	-4.04	361.9	35.16	0.00114	0.000023	1.000	26.58	0.0565	0.847	-5.40	377.7	35.35	0.00170	0.000023
0.997	29.41	0.0777	0.934	-2.60	402.3	36.60	0.00084	0.000018	1.100	27.63	0.0622	0.860	-5.00	415.4	36.75	0.00143	0.000020
1.097	30.45	0.0855	0.967	-1.30	442.7	37.89	0.00062	0.000014	1.200	28.69	0.0678	0.914	- 3. 59	453.Z	38.16	0.00118	0.000018
1.247	31.27	0.0972	0.993	-0.28	503.2	36.92	0.00028	0.000007	1.350	29.98	0.0763	0.955	-1.88	509.8	39.87	0.00085	0.000013
1.397	31.51	0.1089	1.000	0.02	563.8	39.21	C.00000	0.00003	1.500	30.87	0.0848	0.983	-0.69	566.5	41.06	0.00057	0.000009
1.597	31.50	0.1245	1.000	0.00	644.5	39.19	0.00000	0.000000	1.700	31.38	0.0961	1,000	-0.01	642.0	41.74	0.00028	0.000004
									3 000	21 47	0 1130	1 001	0.04	755 3	41 79	0 00000	-0.000001
									2.000	31.42	0.1300	1.000	0.00	R68.4	41.75	0.00000	0.000000
									2.300	21.33	041300	**000	0.00	000.0	4110	0.00000	

RUN:	90871-3	X=58	. Z=	0.					RUNI	90871-3	X=70.	. Z= (
U1 CF/2= F K	31.40 0.0005 0.0037 -0.169E	2 5 -09	01 = 02 = 0C =2 099 =	0.5091 0.2980 2.3489 1.9347	BETA B P+ V0+	0.003 7.226 0.0000 0.1640	RD2 H G	= 4700. = 1.709 =18.207	UI CF/2= F K	31.31 0.0004 0.0037 -0.380E	8 5 -C9	D1 - 0 D2 - 0 DC -2 D99 - 3	0.5969 0.3494 7.3267 2.2310	8ETA- 8 9+ V0+	0.007 7.861 C.0000 0.1717	R D2 H G	= 5494. = 1.708 =18.982
۲	U	Y/DC	1010	(0-011/0	• Y+	U+	TAŲ	TAULAM	Y	V	Y/DC	u/u1	{U-U11/U	γ+	U+	T AU	TAULAN
0.013	2.80	0.0006	0.089	-39,98	4.7	3.92	0.00085	0.000486	0.014	3.50	0.0005	0.112	-40.67	4.8	5.12	0.00090	0.000482
0.017	4.01	0.0008		-38,29	6.1	5.60	0.00100	0.000477	9.018	4.58	0.0007	0.146	-39.08	6.2	6.70	0.00103	0.000443
0.021	5.25	0.0009		-36,55	7.5	7.34	0.00115	0.000467	0.022	5.67	0.0008	0.101	-37.49	7.6	8.30	0.00116	0.000405
0.025	6.07	0.0011		-35,41	9.0	8.49	0.00124	0.0004L0	0.026	6.28	0.0010	0.201	-36.59	8.9	9.19	0.00123	0.000349
0.029	6.93	0.0013		-34,21	10.4	9.69	0.00135	0.000354	0.030	5.97	0.0011	0.223	-35.59	10.3	10.20	0.00131	0.000297
0.034	7.76	0.0015	0.241	7 -33.05	12.2	10.84	0.00145	0.000292	0.036	7.70	0.0013	0.246	-34.52	12.4	11.26	0.00140	0.000234
0.041	8.53	0.0018	0.27	2 -31.98	14.7	11.92	0.00154	0.000231	0.044	8.64	0.0016	0.276	-33.14	15.1	12.64	0.00151	0.000189
0.050	9.52	0.0022	0.301	8 -30.59	18.0	13.31	0.00165	0.000173	0.057	9.59	0.0021	0.306	-31.76	19.6	14.03	0.00162	0.000138
0.063	10.58	0.0028	0.33	7 -29.10	22.6	14.79	0.00178	0.000131	0.074	10.48	0.0027	0.335	-30.45	25.4	15.33	0.00173	0.000103
0.078	11.19	0.0035	0.35	5 -28.26	28.0	15.64	0.00184	0.000131	0.079	11.71	0.0036	0.374	-28.66	34.0	17.12	0.00187	0.000103
0.103	12.12	0.0046	0.386	5 -26.95	37.0	16.95	0.00194	0.000073	0.134	12.59	D.0049	0.402	-27.37	46.0	18.41	0.00196	0.000055
0.138	13.55	0.0062	0.432	2 -24.95	49.6	18.95	0.00210	0.000055	0.184	13.94	0.0067	0.445	-25.40	63.2	20.39	0.00210	0.000041
0.183	14.50	0.0082	0.462	2 -23.63	65.8	20.26	0.00219	0.000044	0.234	14.65	0.0086	0.468	-24.36	80.4	21.42	0.00216	0.000033
0.233	15.16	0.0104	0.463	5 -22.68	83.7	21.22	0.00225	0.000037	0.264	15.42	0.0104	0.493	-23.23	97.5	22.55	0.00223	0.000029
0.283	16.17	0.0127	0.463	5 -21.29	101.7	22.61	0.00233	0.000032	0.359	16.37	0.0131	0.523	-21.84	123.3	23.95	0.00230	0.000025
0.358	17.30	0.0140	0.551	$ \begin{array}{r} -19.71 \\ 5 & -18.23 \\ 5 & -17.30 \\ 1 & -16.18 \\ 6 & -14.74 \end{array} $	128.6	24.19	0.00241	0.000027	0.434	17.14	0.0159	0.548	-20.72	149.1	25.07	0.00232	0.000024
0.433	18.36	0.0194	0.585		155.6	25.67	0.00246	0.000025	0.509	18.10	0.0186	0.578	-19.31	174.8	26.48	0.00238	0.000022
0.508	19.03	0.0227	0.600		182.6	26.60	0.00244	0.000024	0.609	18.98	0.0223	0.606	-18.03	209.2	27.76	0.00239	0.000021
0.583	19.83	0.0261	0.631		209.5	27.71	0.00242	0.000023	0.709	20.17	0.0259	0.644	-16.29	243.5	29.49	0.00242	0.000021
0.658	20.86	0.0294	0.664		236.5	29.16	0.00242	0.000023	0.809	20.91	0.0296	0.668	-15.20	277.9	30.58	0.00237	0.000020
0.758 0.858 0.958 1.058 1.158	21.96 22.99 24.06 25.18 26.04	0.0339 0.0384 0.0429 0.0473 0.0518	0.694 0.73 0.766 0.80 0.82	9 -13.20 2 -11.76 5 -10.27 2 -8.69 9 -7.50	272.4 308.3 344.3 380.2 416.1	30.70 32.13 33.63 35.20 36.40	0.00235 0.00225 0.00213 0.00199 0.00178	0.000023 0.000022 0.000021 0.000020 0.000020 0.000019	0.909 1.009 1.109 1.234 1.359	22.02 22.97 23.81 24.58 25.89	0.0333 0.0369 0.0406 0.0452 0.0497	0.703 0.734 0.760 C.798 0.827	-13.58 -12.19 -10.97 -9.25 -7.93	312.2 346.6 38C.9 423.8 466.8	32.20 33.60 34.62 36.53 37.86	0.00236 0.00230 0.00218 0.00205 0.00184	0.000019 0.000018 0.000018 0.000018 0.000017 0.000016
1.258	26.97	0.0563	0.859	-6.20	452.1	37.70	0.00158	0.000018	1.484	27.01	0.0543	0.863	-6.28	509.7	39.50	0.00167	0.000016
1.356	27.91	0.0608		-4.88	485.0	39.02	0.00137	0.000016	1.609	27.87	0.0589	0.890	-5.03	552.6	40.75	0.00143	0.000014
1.508	29.06	0.0675		5 -3.28	541.9	40.62	0.00101	0.000013	1.759	28.95	0.0644	0.925	-3.44	604.2	42.35	0.00117	0.000012
1.658	30.10	0.0742		-1.82	595.8	42.08	0.00072	0.000010	1.909	29.93	0.0699	0.956	-2.01	655.7	43.78	0.00094	0.000009
1.858	30.95	0.0831		6 -0.63	667.7	43.27	0.00040	0.000010	2.109	30.69	0.0772	C.980	-0.89	724.4	44.89	0.00059	0.000009
2.108 2.408	31.39 31.40	0.0943 0.1077	1.000	0 -0.01 0 0.00	757.5 865.3	43.88 43.90	0.00016	0.000002	2.309 2.609 3.009	31.18 31.34 31.31	0.0845 0.0955 0.1101	0.996 1.001 1.000	-0.18 0.05 0.00 1	793.1 896.1 1033.5	45.60 45.83 45.78	0.00032 0.00000 0.00000	0.000004 0.000001 0.000000

RUN:	90871-3	X=82	. Z=	۰.					RUN1	90871-3	X=90.	Z = 0	•				
UI CF/2- F K	30.94 0.0004 0.0037 -0.575E	5 5 - 09	D1 - D2 - DC -3 D99 -	0.6716 0.3972 1.7522 2.5111	BETA= 8 = 9+ = VD+ =	0.013 8.381 0.0001 0.1773	RDZ H G G	= 6173. = 1,691 =19.318	UI = CF/2= F = K =	30.98 0.0004 0.0037 -0.694 E	3 6 -09	D1 = 0 D2 = 0 DC = 34 D99 = 2	.7147 .4285 .5813 .7922	8ETA 8 1 9+ 1 V0+ 1	0.018 8.402 0.0001 0.1819	RD2 H G	- 6667. - 1.668 -19.379
۲	U	¥/DC	U/UI	(0-01)/04	• Y+	U+	TAU	TAULAN	۲	U	Y/DC	U701	(0-01170	₽ ₩	U+		TAULAN
0.012	2.69	0.0004	0.087	-43,17	3.9	4.11	0.00078	0.000464	0.013	3.36	0.0004	0.108	-43.14	4.1	5.24		0.000495
3.016	3.55	0.0005	0.115	-41.85	5.3	5.43	0.00088	0.000443	3.017	4.28	0.0005	0.138	-41.70		6.67		0.000434
0.020	4.70	0.0006	0.152	-40.09	6.6	7.19	0.00102	0.000422	0.021	5.21	0.0006	0.168	-40.25	6./	8.14		0.000413
0.024	5.34	0.0008	0.173	-39.12	7.9	8.16	0.00110	0.000387	0.026	6.05	0.0007	0.195	-38.94		9.43		0.000334
0.029	6.28	0.0009	0.203	- 37 . 69	9.5	9.59	0.00121	0.000325	0.033	7.38	0.0009	0.235	- 36,86	10.5	11. 72		0.000204
0.036	7.39	0.0011	0.239	-35.99	11.8	11.29	0.00135	0.000254	0.041	8.08	0.0012	0.261	- 35.76	13.1	12.63		0.000205
0.044	8.31	0.0014	0.269	-34,58	14.5	12.69	0.00144	0.000203	0.052	9.12	0,0015	0.295	-34.13	16.7	14.25		0.000149
0.058	9.24	0.0018	0.299	-33.16	19.1	14.12	0.00157	0.000140	0.067	9.90	0.0019	0.319	-32.93	21.5	15.46		0.000108
0.073	10.23	0.0023	0.331	-31.65	24.0	15.63	0.00169	0.000104	0.087	10.91	0.0025	0,352	-31.34	27.9	17.04		0.000082
0.093	11.02	0.0029	0.356	-30.44	30.6	16.84	0.00178	0.000080	0.117	11.57	0,0034	0.373	-30.32	37.6	18.07		0.000050
0.112	11 47	0.0034	0.377	- 29.45	37.2	17.82	0.00186	0.000065	0.167	13.12	Gin., 048	0.423	-27.90	53.6	20.49		0.00045
A 151	17.47	0.0048	0.410	-27.91	50.3	19.37	0.00197	0.000048	0.217	13.86	0.0063	0.447	-26.74	69.7	21.64		0.000035
0.203	13.85	0.0044	0.448	-26.11	66.7	21.16	0.00210	0.000037	0.267	14.67	0.0077	0.474	-25.47	85.8	22.91		0.000031
0.253	14.44	0.0080	0.467	-25.18	83.2	22.10	0.00216	0.000031	0.342	15.77	0.0099	0.509	-23.75	109.9	24.63		0.000025
0.303	15.32	0.0095	0.495	-23.87	99.6	23.41	Q.00226	0.000027	0.417	16.41	0.0121	0.530	-22.75	134.0	25.64		0.000022
	15 67	0.0118	0 516	-22.88	124.3	74.39	0.00232	0.000023	0.517	17.63	0.0149	0.569	-20.84	166.2	27.54		0.000019
1 463	15.11	0.0143	0.544	-71.56	144.9	25.72	0.00241	0.000022	0.617	18.29	0.0178	0.590	-19.81	198.4	28.57		0.000017
0 663	17 64	0 0174	0.580	-19.87	181.8	27.40	0.00252	0.000020	1-717	19.14	0.0207	0.618	-18.49	230.5	29.89		0.000017
0.333		0 0204	0.603	-18.76	214.7	28.51	0.00257	0.000019	0.842	19.91	0.0243	0.643	-17.28	270.7	31.10		0.000016
0.753	19.63	0.0237	0.634	-17.28	247.6	29.99	0.00262	0.000018	0.967	20.84	0.0280	0.673	-15.84	310.9	32.54		0.00015
				-18 40	380.4	11.47	0.00266	0.000017	1 001	77.07	0.0316	0.712	-13.91	351.1	34.47		0.000015
0.073	20.60	0.0207	0.000	-14 40	321.5	32.54	0.00256	0.000017	1 217	22.80	0.0352	0.736	-12.77	391.3	35.62		0.000015
0.9/8	21.33	0.0308	A 177	-11.16	362.6	34.11	0.00254	0.000016	1.367	23.61	0.0395	0.763	-11.48	439.6	36.90		0.000014
1.103	22.33	0.0347	0 741	-11 11	411.9	35.96	0.00247	0.000016	1 517	26.84	0.0439	0.802	-9.59	487.8	38,79		0.000013
1.403	24.72	0.0442	0.799	-9.50	461.3	37.77	0.00232	0.000015	1.711	26.17	0.0496	0.845	-7.50	552.1	40.88		0.000012
								0.000014				0.884	-5.62	616.5	42.76		0.000011
1.553	25.76	0.0469	0.033		510.0	37, 30	0.00212	0.000012	1.91	27.30	0.0441	0.030	- 3. 40	712.9	44.99		0.000008
1.753	27.09	0.0552	0.8/3	-7.04	510.5	4 9 34	0.00165	0.000010	5.61	20.00	0.0041	0.972	-1.34	809.4	47.01		0.000005
1.953	28.36	0.0019	0.917	-3.94	774 7	45.11	0.00102	0.000007	2.21	30.91	0.0843	0.998	-0.08	938.1	48.30		0.000003
2.203	30.62	0.0788	0.990	-0.49	822.9	46.79	0.00058	0.00004	3.311	31.01	0.0959	1.001	0.05	1066.7	48.44		0.000001
					E	47 38	0 00074	0.000002			0.1075	1.000	0.00	1195.4	4 8. 38		0.000000
Z.803	30.95	0.0883	1.000	0.01	761+7	47.32	0.00024	-0.000000	5. /1	30.98	0.1019						
3.203	30.97	0.1009	1 001	0.00	1184.5	47.28	0.00000	0.000000									
5.003	30.94	A+1132	1.000														

2110 (ME) 1

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RUN:	92271-5	X = 2	. z∗ c	3.					RUN:	92271-5	x=10.	Z=) .				
UI =	31.44		01 * 0	0.0856	8ETA	0.004	RDZ	• 750.	U1 -	31.47		01 ×	0.2241	6ET A	-0.026	RDZ	• 1783.
CF/2=	0.0010	6	02 = (0.0473	8	* 7.557	н	1.808	CF/2=	0.0003	1	02 * 1).1124	8	=25.492	н	= 1.994
F •	0.0080	1	DC = 2	2.6280	P+	=-0,0001	G	A13.728	F =	0.0079	6	DC =1	2.6839	P+	a-0.0004	G	-28.211
к =	0.347E	-08	D99 * (3,3556	¥0+	= 0.2460			к •	0.228E	-08	099 = 1	0.6839	A0+	= 0.4505		
۲	υ	¥/DC	0/01	(0-01)/0	* Y+	U+		TAULAP	۲	U	Y/DC	U/U1	{0~01170	• Y+	U+		TAULAM
0.004	3.03	0.0016	0.096	+27.76	2.2	2.96		0.001132	0.009	2.55	0.0007	0.081	-52.00	2.5	4.59		0.000537
0.005	3.29	0.0020	0.105	-27.50	2.7	3.22		0.001092	0.011	3.09	0.0009	0.098	-51.04	3.1	5.56		0.000519
0.006	3.66	0.0024	0.116	-27.14	3.3	3.57		0.001053	0.014	3.85	0.0011	0.122	-49.66	۰.9	6.93		0.000492
0.008	4.6Z	0.0032	0.147	-26.21	4.3	4.51		0.001009	0.018	4.83	0.0014	0.153	-47.91	5.0	8.68		0.060452
0.010	5+67	0.0039	0.180	-25.18	5.3	5.54		3.001001	0.02Z	5.72	0.0017	0.182	-46.31	e.2	10.28		0.600393
0.012	6.70	0.0047	0.213	-24.17	6.3	6.55		0.000983	0.027	6.65	0.0021	0.211	-44.63	7.6	11.96		0.000333
0.014	7.75	0.0054	0.246	-23.15	7.4	7.57		0.000964	0.033	7.68	0.0026	0.244	-42.77	9.Z	13.82		0.000275
0.016	8.54	0.0062	0.272	-22.37	8.4	8.34		0.COOB48	0.640	B. 46	0.0032	0.269	-41.38	11.2	15.21		0.000228
0.018	9.57	0.0070	0.304	-21.37	9.4	9.34		0.000769	0.048	9.28	0.6038	0.7 75	-39.90	13.5	16.69		0.000191
0.021	10.44	0.0081	0.332	-20.52	11.0	10.20		0.000658	0.061	10.32	0.0048	0.328	-38.04	17.1	18.55		0.000152
0.024	11.56	G.609Z	0.368	-19.42	12.5	11.29		0.000571	0.077	11.48	0.0001	0.365	- 35, 95	21.0	20.64		0.000126
D.028	12.47	0.0108	0.397	-18.53	14.6	12.18		0.003466	ú.697	12.65	6.6676	0.492	- 33.84	27.2	22.75		0.000105
D.C12	13.37	0.0123	0.425	-17.66	16.7	13.06		0.000409	0.119	13.61	0.0094	0.432	-32-12	33.3	24.47		0.000052
0.036	14.14	0.0138	0.450	-16.90	18.7	13.81		0.000353	0.139	14.44	0.0116	0.459	-30-62	39.0	25.97		0.000086
0.041	14.86	0.0157	0.473	-16.20	21.3	14.52		0.000304	J.159	15.28	0.0125	U.486	-29.11	44.6	27.48		0.000083
u - 046	15.72	0.0176	0.500	-15.36	23.9	15.35		0.00268	0.184	16.27	0.0145	0.517	+27.33	51.0	29.26		0.00080
0.052	16.43	0.0199	0.522	-14.67	27.0	16.05		0.000240	0.209	17.23	0.0165	0.548	-25.60	58.6	30.99		0.000078
0.058	16.99	0.0222	0.540	-14.12	30.1	16.59		0.000218	0.734	18.26	0.0184	0.580	-23.76	65.6	32.83		0.000076
0.067	17.97	0.0256	0.570	-13.21	34.7	17.51		0.00193	0.259	19,10	0.0204	0.6.37	-22.24	72.0	34.35		0.000074
0.078	18.99	6.0296	0.604	-12.17	40.4	18.55		0.000180	0.289	20.26	0.0228	0.644	-20.15	61.0	36.44		0.000073
0.093	20.16	0.0355	0.641	-11-02	48.1	19.69		0.000167	0.324	21.41	0.0255	0-680	-18.09	4G. 8	38.50		0. 00071
0.108	21.41	0.0412	0.681	-9.86	55.9	20.92		0.000157	0.374	23.16	0.0295	0.736	-16.94	104.8	41.65		1.000070
0.123	22.56	0.0469	0.718	-8.07	63.6	22.04		0.000148	0.474	24.91	0.0334	0.792	-11.78	118.8	44.81		0.000066
0.138	23.59	0.0520	0.750	+7.67	71.4	23.05		0.000139	0.474	26.66	0.0374	6.867	-8.65	(32.4	47.94		0-000060
0.156	25.02	0.0602	Ú.796	-6.28	81.7	24.44		0.000123	0.524	28.11	0.0413	G.843	-6.04	146.8	50.55		0.000051
0.178	26.21	0.0078	0.834	-5.11	92.0	25.60		0.000107	0.574	79.41	0.0453	0.935	-3-67	100.9	52.93		0.000040
0.108	27.30	0.0755	0.869	-4.05	102.3	26.65		0.000092	0 676	30.47	0.0492	0.969	-1.40	74.9	54.79		0.000029
0.223	28.29	0.0850	0.900	-3.09	115.2	27.63		0.000074	0.690	31.32	6-0551	0.996	-125	195.5	56.34		0.000017
0 261	20 31	6.0964	0.932	-2.09	36.7	28.43		0.000056	0 774	31 47	0.0410	1,000	0.00	214.9	54.59		0. 10000
0.283	30.06	0.1678	0.956	-1.35	146.2	29.37		0.000042	0.774	21.47	0.0010	1.000	0.00	~			
6.324	30 . 86	0.1749	0.981	-0.57	149.4	30.14		0.000025									
0.368	31.26	0.1461	0.994	-0.18	196.0	10.51		0.000015									
0.473	31.45	0.1611	1.000	0.21	218.4	30.72		0.000005									
0.493	31.47	0.1879	1.001	6.02	249.4	30.74	-	0.000062									
0.548	31 44	0.2086	1.000	0.00	282.9	30.71		0.000000									

RUN:	92271-5	X=22	. Z=	0.					RUNI	92271- 9	5 X=34	· [*	0.				
UI = CF/2= F = K =	31.46 C.0002 O.0080 O.762E	0 4 - 09	D1 = 1 D2 = 1 DC = 3 D99 =	0.4368 0.2112 0.8216 1.2546	8 E TA B P+ VG+	=-0.026 =40.032 =-0.0003 = 0.5673	R D Z H G	= 3349. = 2.068 =36.446	JI CF/2= F K	31.45 0.0001 0.0080 -0.4176	6)1 -09	01 = 02 = 0 0C = 5 099 =	0.6386 0.3076 0.3253 1.8358	6ET4 B P+ V0+	= 0.026 =49.745 = 0.0002 = 0.6312	ROZ H G	= 4876. = 2.076 =40.845
Y	U	¥70C	U/U I	[U-0]]/04	• ¥•	U+		T AUL AP	Y	U	Y/DC	⊎ / ∪T	{U-UI1/U	¥+	U+		TAULAP
0.618	2.59	0.0006	0.08Z	-64.76	4.0	5.80		0.000279	3.023	2.83	0.0004	0.090	-71.71	4.5	7.09		0.000218
0.077	3.23	0.0467	0.103	-63.31	4.9	7.25		0.000268	0.030	3.54	0.0006	0.113	-69.94	۰.0	8.87		0.000200
0.027	4.02	0.0009	G-128	-61.55	6.1	9.02		0.000254	0.038	4.25	C.0007	0.135	-08.16	7.0	10.65		0.000179
0.033	4.68	0.0011	U.149	- 60,06	7.4	10.50		0.000233	0.050	5.25	0.6016	0.167	-65.65	10.0	13.16		0.000136
0.040	5.39	0.0013	0.171	-58.40	9.Ú	12.15		0.00198	5.063	6.14	0.0012	0.195	-63.42	12.0	15.38		0.000111
0.050	6.43	0.0016	0.204	-56,15	11.2	14.42		0.000158	0.078	6.80	0.0615	0.216	-61.70	15.6	17.04		0.00052
0.063	7.43	0.0020	0.236	-53.91	14.2	16.65		0.000126	u.098	7.62	0.0019	0.242	-59.71	19.6	19.10		0.000074
0.083	8.48	0.0027	6.270	-51.53	18.7	19.03		0.000095	0.128	8.56	0.0025	0.272	-57.37	25.7	21.44		0.000059
0.103	9.06	0.0033	0.288	- 50.25	23.1	20.31		0.00000.0	0.168	9.65	0.0033	0.307	-54.62	33.7	24.18		0.000049
0.128	10.02	0.064z	6.319	-48.69	28.8	22.48		0.000068	0.218	10.64	0.0043	0.338	-52.14	43.8	20.67		0.00039
0.163	11.07	0.0053	0.352	-45.74	36.6	24.83		0,000058	0.268	11.71	0.0053	0.372	-49.46	53.8	29.35		0.000035
0.208	12.51	0.0067	0.398	-42.50	46.7	28.07		0.000052	0.318	12.42	0.0063	C.395	-47.68	63.9	31.13		0.000033
0.253	13.39	C.0082	0.426	-40.53	56.9	30.04		0.000048	6.368	13.05	0.0073	0.415	-40.12	73.9	32.69		0.000031
C.29B	14.30	0.0697	0.455	-38.49	67.0	32.08		0.000045	0.433	14.14	0.0686	0.450	-43.38	87.0	35.43		0.00030
0.358	15.72	0.0116	0.500	-35.31	80.4	35.26		0.000043	0.498	15,18	5.0399	0.482	-40.70	100.1	38.02		0.000031
0.418	16.98	0.0136	0.540	-32.48	93.9	38.09		0.00043	0.573	16.10	0.0114	0.512	-38.47	115.4	40.34		0.000030
0.468	17.96	0.0152	0.571	- 30 . 28	105.2	40.28		0.000043	0.648	17.14	6.0129	0.545	- 35.80	130.3	42.94		0.00030
0.528	19.21	0.0171	0.611	-27.47	118.6	43.09		0.000042	0.723	18.57	0.0144	0.590	-32.27	145.4	46.53		0.000030
0.588	20.55	0.6191	0.653	-24.47	132.l	46.09		0.000041	0.798	19.46	0.0158	0.619	- 30.05	160.4	48.70		0.000030
0.648	21.71	0.0210	0.690	-21.87	145.6	46.69		0.000041	0.873	20.65	0.0175	0.057	-27.03	175.5	51.17		0.000029
0.718	23.13	0.0233	0.735	-18.69	161.3	51.87		0+00039	C.948	21.62	0.0188	0.688	-24.63	190.0	54.18		0.000028
0.776	24.30	0.0252	0.772	-16.06	17+.8	54.50		0.000039	1.023	22.74	0.0203	3.723	-21-83	205.7	50.97		1.000028
0.828	25.26	0.0269	0.803	-13.91	186.1	56.65		0.000037	1.123	24.09	0.0223	0+766	-18.45	225.8	66.36		0.000027
0.683	26.22	0.0286	0.833	-11,75	198.4	58.81		0.000036	1.223	25.48	0.0243	0.810	-14.98	245.9	03.83		0.000026
0.958	27.72	0.0311	6.881	-8.38	215.3	62.18		0.000032	1.323	26.00	0.0263	0.852	-11.67	266.1	67.14		0.00024
1.033	28.80	0.0335	0.915	-5.98	232.1	64.58		0.00027	1.423	28.10	0.0283	0.893	-8.41	286.2	70.39		0.00021
1.133	30.16	0.0368	0.959	-2.91	254.6	67.65		0.000019	1.548	29.37	0.0308	0.934	-5.21	312+3	73.60		0.000017
1.258	31.17	0.0408	0.991	-0.64	282.7	69.92		0.00011	1.698	30.56	0.0337	0.972	-2.24	341.5	76.57		0.000011
1.358	31.46	0.0441	1.000	0.00	305.2	70.50		0.000005	1.848	31.19	0.6367	0.992	-0.66	371.7	78.14		0.000007
1.508	31.50	0.0469	1.001	6.10	338.9	70.66		-0.00001	1.998	31.46	0.0397	1.000	0.03	+01+8	78.83		0.00003
1.658	31.44	0.0538	1.000	0.00	372.0	70.56		0.00000	2.198	31.47 31.45	0.0437	1.000	0.03	442.1 482.3	78.84 78.81		-0.000001

R UN 1	92271-5	X=46	. Z=	0.				RUN	92271-5	X=58.	Z= 0	•			
U1 = CF/2= F = K	31.51 0.0001 0.0080 -0.126E	4 2 -08	01 = 02 = 0C = 099 =	0.8303 0.3993 70.0101 2.3793	ВЕТА В Р+ V0+	= 0.118 =57.014 = 0.0008 = 0.6762	RD2 = 6340. H = 2.080 G =43.770	UI CF/2= F K	31.51 0.0001 6.0079 -0.178E	3 8 -08	01 = 1 D2 = 0 DC =88 D99 = 2	.0066 .4931 .5819 .9569	86 TA 8 9 + V0 +	- 0.220 -61.801 - 0.0012 - 0.7023	RDZ = 7830. H = 2.041 G =44.891
Y	v	Y/DC	U/U I	(0-0[1/0	і * ү +	U+	TAULAF	¥	U	Y/DC	0701	(0-01170	• ••	U+	T AUL AM
0.028	2.69	0.0004	0.08	2 - 77. 39	5.3	6.97	0-000164	0.031	2.75	0.0003	0.087	-80.31	5.6	7.69	0.000153
0.015	1.41	0.0005	0.10	4 -75.19	6.6	9.13	0.000154	0.641	3.52	0.0005	0.112	-78.17	7.4	9.83	0.000140
0.044	1.49	0.0006	0.12	4 -73.89	8.3	10.42	0.000141	0.051	4.19	0.0000	0.133	-76.29	9.2	11.71	0.00127
0.056	4.56	0.0008	0.14	5 -72.10	10.5	12.21	0.000110	0.066	4.92	0.0007	0.156	-74.20	11.9	13.74	0*00044
0.073	5.48	0.0010	0.17	4 -69.64	13.7	14.67	0.000089	0.086	5.87	0.0010	0.186	-71.61	15.5	16.39	0.00080
0.103	6.77	0.0015	0.21	5 -66.20	19.4	18.12	0.000669	0.116	6.94	0.0013	0.220	-68.62	20.9	19.39	0.00061
0.143	7.74	0.0020	0.24	6 -63.61	26.9	20.70	0.000052	0.156	8.12	0.0018	0.258	-65.31	28.1	22.69	0.000044
0.183	8.89	0.0026	0.28	2 -60.51	34.5	23.80	0.00044	0.211	9.18	0.0024	0.291	-62.36	38.1	25.64	0.00034
0.228	9.61	0.0033	6.30	5 -58.58	42.9	25.73	0.000037	0.271	9.94	0.0031	0.315	-60.25	48.9	27.76	0.000027
0.278	10.46	0.0040	0.33	2 -56.31	52.4	28.00	0.000032	0,336	10.51	0.0038	0.334	-58.04	60.6	29.36	0.000024
0.353	11.76	0.0050	0.37	3 +52.84	66.5	31.48	0.00028	0.411	11.68	0.0046	0.371	-55.38	74.2	32.62	0.00023
0.428	12.54	0.0041	0.39	9 -50.69	80.6	33.62	0.000027	0.486	12.25	0.0055	0.389	-53.76	87.7	34.22	0.00021
0.503	13.29	0.0072	0.42	2 -48.76	94.7	35.55	0.00025	0.561	13.09	0.0063	0.415	-51.44	101.2	36.56	0.00022
0.403	14.78	0.0086	0.46	9 -44.77	113.6	39.55	0.00024	0.636	14.01	0.0672	0.445	-48.89	114.8	39.12	0.000020
0.703	15.88	0.0100	0.50	4 -41.82	132.4	42.49	0.000024	0.711	14.51	0.0080	0.461	-47.47	128.3	40.53	0.00020
0.603	16.96	0.0115	0.53	8 -38.92	151.2	45.40	0.000023	0.811	15.87	0.0092	0.504	-43.68	146.3	44.32	9.00019
0.903	18.05	0.0129	0.57	3 -36.02	170.1	48.30	0.000023	0.911	16.43	0.0103	0.521	-42.1.	164.4	45.88	0.000018
1.003	19.36	0.0143	0.61	4 -32.51	188.9	51.80	0.000023	1.011	17.45	0.0114	0.554	-39.27	192.4	48.73	0.00018
1.103	20.36	0.0158	0.64	6 -29.83	207.7	54.49	0.000022	1.111	18.24	0.0125	0.579	-37.04	200.5	50.96	0.000018
1.203	21.51	0.0172	0.68	3 -26.75	226.6	57.57	0.000022	1.211	19.08	0.0137	0.605	-34.72	218.5	53.29	0.000018
				1 -11 14	350.1		0.000031	1.311	20.11	0.6148	0.638	-31.83	236.6	56.17	0.00018
1.328	22.10	0.0190	0.12	5 -15 74	171 4	44 53	0.000021	1.436	21.40	0.0162	0.679	-28.22	259.1	59.78	0.000018
1.473	24.13	0.0208	0.10	4 -16.51	297.2	67.80	0.000020	1.561	22.33	0.0176	C.709	-25.63	281.7	62.38	0.000018
1 701	24 71	0.0243	A 84	-17.84	320.7	71.67	0.000019	1.711	23.51	0.6193	0.746	-22.32	308.7	65.68	0.000017
1.853	27.97	0.0265	0.88	8 -9.47	349.0	74.65	0.000017	1.861	24.96	0.0210	0.792	-18.28	335.8	69.73	0.000016
2.003	29.26	0.0286	0.97	8 -6.06	377.2	78.25	0,000014	2.011	26.18	0.0227	C.831	-14.85	362.9	73.11	0.00015
2.151	30.34	0.0308	0.94	3 -3.11	405.5	81.20	0.000010	2.161	27.24	0.0244	0.864	-11.93	389.9	76.08	0.000014
2.303	31.05	0.0329	0.98	6 -1.21	433.7	83.10	0.000007	2.311	28.26	0.0261	0.897	-9.08	417.0	78.92	0.00012
2.453	31.32	0.0350	0.99	4 -0.48	462.0	83.83	0.00004	2.511	29.53	0.0263	0.937	-5.53	453.1	B2.47	0.000010
2.603	31.51	0.0372	1.00	0.02	490.2	84.33	0.000002	2.711	30.59	0.0306	6.971	-2.58	459.2	85.43	0.00007
2.803	31.53	0.0400	1.00	1 0.07	527.9	84.38	-0.00001	2.911	31.14	0.6329	0.988	-1.02	525.3	86.98	0.000005
3.003	31.51	0.0429	1.00	0 0.00	565.5	84.31	0.000000	3.211	31.47	0.0362	0.999	-0.11	579.4	87.87	0.00002
								3.511	31.51	0.0396	1.000	0.02	633.5	88.02	-0.000001
								3.011	31.51	0.0430	1.000	0.00	687.7	88.00	0.00000

101041	07771-5	¥=70.		D.					A UN:	92271-5	5 x =82.	Z= (J.				
												D1 4	3425	BE TA	0.335	8.02	-15747.
UI •	31.48	-	01 =	.1924	BEIA	0.305	102	- 2 078	CE /2			02	1.6807	8	#68.401	н	= 2.003
CF/2=	0.0001	2	02 - 0	0.3879		- 0 0014	2	- 2.028	5,12	0.0001		Dr a	146 1	P+	0.0014	G	=46.334
F •	0.0079	8	DC =	109-1		- 0.0015		-43.911	5	-0.101	- 0.8			¥0+	0.7393	-	
× •	-0.196E	-08	099 = :	3.4972	¥0+	- 0.1231			•	-0.181				•••	- ••••		
۲	บ	Y/DC	U/U1	(0-01)704	• ¥+	U+		TAULAN	۲	U	¥/0C	u/uI	(0-01170	• ••	U+		T AUL AN
A 034	2.80	0.0003	0.089	-82.61	5.9	8.08		0.000137	0.03	7 2.87	0.0003	0.091	~84.08	6.3	8.45		0.000126
0.044	3.56	0.0004	0.113	-80.43	7.7	10.26		0.000125	0.04	7 3.40	6.0004	û.108	-82.53	8.1	10.00		0.000117
0.054	4.14	0.0005	0.132	-78.76	9.4	42.93		0.000112	0.06	2 4.14	0.0005	0.132	-80.35	10.6	12.18		0.000102
0.049	4.66	0.0006	0.148	-77.26	12.1	13.43		0.000088	0.08	4.92	C.COC7	č.156	-76.05	14.1	14.48		0.000072
0.089	5.34	0.0008	0.169	-75.32	15.6	15.37		0.000069	0.11	2 0.12	0.009	0.194	-74,54	19.2	17.99		0.000058
	4 80	A A011	0 204	-71.97	20.8	18.72		0.000054	0.15	6.81	0.0012	0.216	-72.50	20.1	20.03		0.000044
0.114	3.30	0.0011	0 249	-68-15	27.8	22.54		0.000043	0.20	7.85	0.0016	0.250	-69.44	34.6	23.09		0.000034
0 100	1.02	0.0019	0.256	-67.65	36.6	23.24		0.00034	0.27	9.21	0.0022	0.293	-65.43	47.5	27.09		0.00027
0.207	0.11	0.0076	0.299	- 63.59	49.7	27.10		0.000027	0.35	2 9.82	0.0028	0.312	-63.65	60.3	28.88		0.00023
0.359	10.24	0.0033	0.325	-61.19	62.8	29.50		0.000023	0.45	10.68	0.0036	0.340	-61.11	77.5	31.42		0.000020
			A 387	-59 37	75 0	12.42		0-000022	0.55	11.68	0.0044	0.378	-57.59	94.0	34.93		0.000018
0.434	11-22	0.0040	0.357	-30.21	12.7	34 43		0.000020	0.65	12.73	0.0052	0.404	-55.10	111.6	37.42		0.000019
0.509	11.95	0.004/	0.380	- 50,20	104 5	34.43		0.000019	0.75	13.48	0.0060	0.428	-52.89	128.9	39.64		0.000015
0.609	12.71	0.0056	0.404	- 50 40	124 0	40 21		0.000017	0.85	14.26	G. 0068	0.453	-50.59	146.0	41.93		0.000014
0.709	13.90	0.0075	0.462	-48.63	141.5	41.86		0.000016	0.97	15.70	0.0077	0.499	-40.35	167.5	46.17		0.000013
						44 48		0.000016	1.10	2 15.43	0.0067	0.491	-47.14	188.9	45.39		0.000013
0.909	15.44	0.0084	0.491	20	134.0	44 61		0.000015	1.22	7 16.68	0.6097	0.530	-43.47	210.3	49.06		0.000012
1.009	16.15	0.0043	0.513		1/0.3	40.93		0 000015	1.35	17.67	0.6107	0.560	-40.72	231.7	51.81		0.000013
1.134	16.92	0.0105	0.538		1904 4	51 71		0.000015	1.47	7 18.15	0.0117	0.577	-39.15	253.2	53.38		0.000013
1.259	18.95	0.0128	0.510	-36.11	242.1	54.58		0.000015	1.60	2 18.96	0.0127	0.603	- 36.76	274.6	55.76		0.000013
					344 A	K7 3K		0.00015	1.75	2 20.10	0.6139	0.639	-33.41	300.3	59.11		0.000013
1.509	19.87	0.0140	0.631		204.0	51.23		0.000014	1.90	20.95	0.0151	0.666	-30.93	326.0	61.59		0.000013
1.659	20.80	0.0133	0.001	- 30. 77	314 5	43 78		0.000014	2.05	2 21.93	0.0163	0.097	-28.02	351.7	64.50		0.000013
1.809	21.96	0.016/	0.090		342 7	66.13		0.00014	2.15	22.59	0.0171	0.718	-26.09	8.84	66.43		0.000012
2.109	22.95	0.0181	0.764	-21.44	369.0	69.25		0.000014	2.30	2 23.31	0.0183	0.741	-23.98	394.6	68.55		0.00012
						73.34		0.000013	2.50	7 74.73	0.0198	0.786	-19.82	428.8	72.70		0.000011
2,309	25.39	0.0214	0.807	-1/+22		73.10		0.000013	2.10	2 25.82	0.0714	0.811	-17.47	463.1	75.05		0.000011
2.509	26.64	0.0232	U.846	-13.95	73 0	0.12		0.000011	2.90	2 26.87	0.6230	0.854	-13.50	497.4	79.02		0.000010
2.709	28-08	0.0251	0.892	-9.80	573.V	84.11		0.000010	3-10	2 27.86	0.0246	0.885	-10.60	531.7	81.92		0.000010
2.909	29.20	0.0289	0.927	-6.38	543.9	86.60		0.00007	3.30	2 28.66	0.0262	0.911	-8.25	560.0	84.27		0.00009
								0.000005	3.50	2 29.72	0.0276	0.945	-5.13	600.2	87.39		0.000007
3.309	30.82	0.0306	0.979	-1.90	219.4	00.19		0.000003	3.70	2 30.35	0.0296	0.965	-3.28	634.5	89.25		0,000006
3.509	31.19	0.0324	0.991	-0.8*	013.9	87.67		0.000000	3.90	2 30.92	0.0310	0.983	-1.61	668 . 8	90.92		0.000004
3.709	31.41	0.0343	0.998	-0.21	648.9	70.78		0.000000	6.60	31.47	0.0149	1.000	0.00	754.5	92.52		0.00000
3.909	31.48	0.0361	1.000	0.00	003.8	70.09			4.40								

RUN1 1	27271-2	X= 2.	. z= (r.					ባ ሀላ:	177771-2	x=10.	z = (o.				
ыт .	20.32		D1 = 1	1.0426	BETA	. 0.073	8D2 #	451.	HT a	26.B1		01 = 0	3.0568	BETA	- C.174	P02	= 557.
CE / 2	n. 0039	7	DZ # 1	0.0297	B	==1.006	н т	1.435	(F/2*	0.0038	0	$\dot{D}\dot{Z} = \dot{C}$	1.0402	в	=-1.046	н	= 1.414
E a	+0.0039	g	ac = 1	0.6796	P+	= 0.00Z	G =	4.839	£ .	-0.0039	8	DC = (7.9216	P+	* 0.004	÷	+ 4.746
к	-D. 446F	- 96	099 4	0.2633	¥0+	=-0.063	-		κ .	-C.838E	-06	099 = (.3956	VC +	=-0.065		
n -			0		•••												
¥	υ	Y/DC	U/UI	(9-91)/0	• **	U+	т	AULAM	Y	ij	4/00	97-01	(0-011704	٧÷	U+	TAU	TAULAN
0.004	6.96	0.0063	0.238	-12.11	4.1	3.77	ο.	003428	9.005	5.62	0.0054	0.247	-12.21	4.3	4.00	0.00287	0.002757
0.005	9.15	0.0078	0.312	-10.92	5.1	4.95	ο.	003294	0.006	7.01	0.0065	0.252	-11.97	5.1	4.24	0.00282	0.02544
0.006	13.26	0.0093	0.350	-10.32	6.0	5,56	0.	002980	0.007	7.93	0.0076	U.796	-11.47	b.0	4.90	0.00270	0.002331
0.007	11.74	0.6108	0.400	- 9. 52	7.0	6.36	σ.	002530	0.00	8.78	0.0087	0.328	-10.90	6.8	5.11	0.00258	0.002158
0.008	12.77	0.0122	0.435	-8.96	7.9	6.91	0.	002155	2,003		0.0098	2.356	-10.44	7.7	5.78	0.00247	9.002065
0.009	13,60	0.0137	Π.464	-8,51	8.9	7,36	۹.	001999	0.011	11.04	0.0119	0.412	-9.54	9.4	6.69	0.00227	0.001900
0.010	14.36	0.0152	0.490	-6.10	9+8	7.78	٥.	001694	0.013	12.31	0.0141	C.459	- 8.77	11.1	7.44	0.00210	0.001577
0.012	15,77	0.0141	0.538	-7.34	11.7	8.54	0.	001260	1.015	13.39	0.0163	0,500	- 9, 11	12.9	8.10	0.00195	0.001364
0.014	16.69	0.0211	0.569	-0.84	13.7	9.04	5.	001038	0.017	14.44	0.0184	0.538	-7.48	14.5	8.73	0.00181	0.001150
5+016	17.49	0.0240	n.596	- 5. 41	15.6	9.47	· ·	000858	0.020	15.72	0.6217	0,585	-6.71	17.1	9.50	0.00165	0.000958
0.018	18 17	0 0769	0.620	-6.04	17.5	9.84	σ.	000709	1.027	16.61	0.025.0	0.619	-6.17	19.7	10.04	0.00153	1.000764
0.071	10 14	0 0316	0 454	-5 50	20 1	10 10	-	000568	5 026	17 15	0 0 267	0.647	-5.72	22.2	10.49	0.00166	3.000611
0.025	70.00	0.0373	6 4 9 7	-5.05	24.2	10.83	0.	000427	2.020	10 20	0.0326	0.692	-5.10	25.0	11.05	0.00133	0.000457
0.010	20.10	D 0444	0.000	- 6 67	78 0	11.25	0.	000309	0.034	16 78	0.0345	0.700	-4.84	29.1	11.36	0.00128	0.000361
3 034	71 43	0.0440	7.721	-4.77	34.7	11.41	0.	000224	0.020	10.10	0.0423	5.773	- 4. 50	33.3	11.72	0.00122	0.000273
7.030	21.445	0.0199	5+13+				•	00/02/	/•••	14.30							
0.044	22.07	0.0652	0.753	-3.93	42.3	11.95	0.	001168	0.04	19.79	0.0488	0.738	-4.25	38.5	11.97	0.00119	0.000201
1.052	22.55	0.0770	0.769	- 3. 67	49.9	12.21	n,	000137	1.053	20.37	0.6575	6.700	-3.90	45.3	12.32	0.00115	0.000155
0.067	23.29	0.0991	0.794	-3.25	64.3	12.61	σ.	000109	0.06	20.99	0.0705	0.779	-3.5R	55.6	12.63	0.00113	0,000116
3.087	24.10	0.1286	3.822	-2.93	53.3	13.05	σ.	000092	0.079	21.38	0.0857	0.798	- 3.28	67.5	12.93	0.00111	0.0009Z
n.107	24.92	0.1580	0.850	-7.38	102.4	13.49	ŋ.	ER0000	0, 194	21.99	0.1074	0.920	-2.92	84.0	13.29	0.00109	0.000073
		0.10/1	0 0 70	-1 01	1 74 7	11.05		000076	0.176	77 70	0 1400	3 347	-7.49	110.3	13.73	0.00105	0.000060
0.132	27.10	6 3317	0.576	-1.45	150.7	14 39		000044	0.150	22.10	0.1725	7.847	- 2. 15	115.9	14.05	0.00099	0.000053
0.107	20.77	0.2317	0.405	-1.90	170.2	14 84		000051	0.10	23 04	0.159	0.494	-1.72	170.1	14.49	0.00086	0.000046
0.187	27.41	0.275	0.935	-1.04	1/0.0	14.04		000011	0.14	23.7	0.1767	0 0 14	- 1 10	212 0	15 07	0.00065	0.000039
	27.27	0.3274	0.953	*0, 56	266.4	15.30		000034	0.200	16 67	0.2002	0.526	- 75	255.6	15.46	0.00065	0.000030
9,762	24.85	0.3863	J.944	-0.25	290+4	13+03	•	0.00124		\$3.31		0.934		277.5	1 / 1 40	0100.44	
0.302	29.19	0.4452	0.995	-9.07	288.6	15.80	٥.	000014	5.349	26.16	0.3787	0.975	-0.40	278.4	15.92	0.00028	0.000021
0.352	29.32	0.5188	1.000	0.00	336.3	15.88	0.	000006	0.300	26.57	0.4329	3.991	-0.15	341.1	16.07	0.00017	0.000014
n.477	29.33	9.6797	1.000	0.00	408.0	15.89	-0.	000002	1.47	26.90	0.5143	1.030	-0.01	405.Z	16.21	0.00007	0.000006
0.50Z	29.32	0.7397	1.000	r.ac	479.6	15.88	0.	00000	7.544	26.82	0.5957	1.000	0.01	409.3	16.27	0.00002	0.000001
									7.624	26.83	C.6771	1.701	0.01	533.4	16.22	n.00000	-0-00003
									0.690	26.91	0.7584	1.700	0.90	597.6	16.21	0.00000	0.00000

RUN: 1	27271-2	X=22	• Z=	٥.					PUN !	122271-2	X=34.	Z = 0					
UI = FF/2= K =	24.29 C.0034 -D.0039 -D.4688	-06	01 = 02 = 0C = 099 =	0.6727 0.0528 1.1741 0.5466	8574 8 9+ VO+	= 0.111 =-1.041 = 0.092 =-0.064	R D Z H G	= 667. = 1.378 = 4.431	1)1 FF/2 F	22.95 C.0038 -0.0040 -0.3358	1 0 -06	01 = 0 D2 = 0 DC = 0 D99 = 0	0.0805 0.0601 1.3065 0.6494	ВЕТА В Р• V0+	= 0.034 =-1.050 = 0.001 =-0.065	RD2 H G	• 712. • 1.342 • 4.133
Y	u	Y/DC	JVUT	0-0110	• ¥+	U•	T4U	TAULAM	Y		¥/DC	1616	(U-UT)/U4	٧+	U +	T▲U	TAULAM
0.005 0.006 0.007 0.007 0.008 0.010	4.91 5.36 5.79 6.54 8.27	C.0043 0.0051 C.0040 0.0068 0.0068	0.202 0.221 0.239 0.269 0.340	-12.89 -12.59 -12.30 -11.80 -10.65	3.9 4.7 5.4 6.2 7.8	3.26 3.56 3.85 4.35 5.50	0.00305 0.00298 0.00292 0.00280 0.00280	0.002697 0.002634 0.002571 0.002434 0.002393	0.00 5.00 0.00 0.00 0.00	5.69 5.69 6.42 7.00 7.61	0.0043 0.0051 0.0058 0.0066 0.0073	0.226 0.280 0.305 0.332	-12.54 -12.19 -11.67 -11.26 -10.83	4.1 4.8 5.6 6.3 7.0	3.67 4.01 4.53 4.94 5.37	0.00293 0.00285 0.00272 0.00262 0.00252	0.002799 0.002633 0.002467 0.002312 0.002312
0.012 0.014 0.016 0.018 0.018	9,93 11,14 12,05 12,77 13,66	0.0102 0.0119 0.0136 0.0135 0.0153	0.407 7.459 0.476 0.526 0.562	-9.57 -8.74 -8.13 -7.66 -7.07	9.3 10.9 12.4 14.0 15.5	6.57 7.41 8.02 8.49 9.08	0.00227 0.00208 0.00194 0.00183 0.00183	0.002084 0.001771 0.001479 0.001248 0.001248	0.01 0.01 0.01 0.01	8.85 10.01 11.03 12.35 13.63	0.0089 0.0104 0.0119 0.0142 0.0173	0.386 0.435 0.481 n.538 0.594	- 9.96 - 9.13 - 8.41 - 7.49 - 6.58	8.5 10.0 11.4 13.6 16.5	6.25 7.07 7.79 8.72 9.62	0.00231 0.00211 0.00194 0.00172 0.00151	0.002106 0.001885 0.001631 0.001310 0.001310
0.023 0.026 0.029 0.033 0.038	14,45 15,26 15,76 16,46 17,13	0.0156 0.0221 0.0247 0.0281 0.0324	0.595 0.628 0.649 0.678 0.705	-6.54 -6.00 -5.67 -5.20 -4.76	17.9 20.2 22.5 25.7 29.5	9.61 10.15 10.4R 10.95 11.39	0.00157 0.00145 0.00138 0.00128 0.00118	0.000874 0.000726 0.000585 0.000464 0.000348	0.02 0.03 0.03 0.03 0.03 0.04	7 14.45 1 15.16 5 15.73 9 16.18 3 16.57	0.0204 0.0234 0.0265 0.0295 0.0295	C.630 1.561 D.586 1.705 C.722	-6.00 -5.50 -5.09 -4.79 -4.50	19.5 22.4 25.3 28.3 31.2	10.20 10.70 11.11 11.43 11.70	0.00137 0.00126 0.00117 0.00110 0.00104	0.000729 0.000573 0.000461 0.000375 0.000311
0.044 0.052 0.062 0.077 0.097	77.61 18.07 18.55 19.01 19.44	0.0375 0.0443 0.052P 0.0656 0.0656	0.725 0.744 0.764 0.733 0.900	-4.44 -4.13 -3.81 -3.51 -3.22	34.2 40.4 45.2 59.9 75.4	11.71 12.07 12.34 12.64 12.92	0.00112 0.00107 0.00102 0.00098 0.00095	9.000262 0.000183 0.000130 9.000094 0.000072	7.04 5.05 0.06 7.08 0.11	9 17.01 7 17.38 9 17.68 9 18.35 9 18.77	0.0372 0.0433 0.0525 0.0670 0.0862	0.741 3.757 9.779 0.POC C.P16	- 4. 19 - 3. 93 - 3. 58 - 3. 25 - 2. 9P	35.6 41.4 40.2 64.1 82.4	12.01 12.27 12.63 12.96 13.22	0.00098 0.00093 0.00087 0.00082 0.00080	0.000237 0.900175 0.000121 0.000082 0.000060
0.117 0.157 0.207 0.257 0.307	19.97 20.41 21.13 21.75 22.29	0.0097 0.1337 0.1763 0.2189 0.2615	0.815 0.440 0.876 0.896 0.917	-2.98 -2.58 -2.10 -1.68 -1.33	91.0 122.1 160.9 199.8 238.7	13.17 13.57 14.05 14.47 14.82	0.00092 0.00088 0.00080 0.00072 0.00061	0.000060 0.000050 0.000042 0.000037 0.000033	0.14) 0.19) 0.24) 0.29 0.34	3 19.15 3 19.66 3 20.14 3 20.54 4 20.94	0.1091 0.1474 0.1857 0.2240 0.2672	0.835 0.857 0.979 0.979 0.913	-2.68 -2.32 -1.76 -1.70 -1.41	104.4 141.0 177.6 214.2 250.8	13.53 13.89 14.25 14.50 14.79	0.00078 0.00075 0.00070 0.00066 0.00059	0.000047 0.000037 0.000033 0.000030 0.000027
0.357 0.407 0.482 0.557 0.632	22.74 23.18 23.75 24.79 24.25	0.3041 0.3466 0.4105 0.4744 0.5383	0.936 0.955 0.978 0.992 0.992 0.999	-1.03 -0.73 -0.36 -0.13 -0.02	277.5 316.4 374.7 433.0 491.3	15.12 15.41 15.79 16.02 16.13	0.00050 0.00038 0.00022 0.00011 0.00004	0.000028 0.000023 0.000016 0.000010 0.000005	0.41 3.49 0.56 3.64 0.71	B 21.51 21.98 B 22.37 9 22.70 B 22.85	0.3196 0.3770 0.4344 0.4918 0.5492	0.938 0.958 0.975 0.975 0.989 0.996	-1.01 -0.69 -0.41 -0.17 -0.07	305.7 360.6 415.5 47C.4 525.3	15.19 15.52 15.79 16.03 16.14	0.00048 0.00035 0.00023 0.00013 0.00013	0.000024 0.000019 0.000015 0.000010 0.000006
0.707 0.807	74.29 24.29	0.6022	1.000	0.00 0.00	349.6 627.4	16.15	0.00000	0.000001 9.000000	0.79) 3.89 0.99	3 22.93 9 27.95 3 22.95	0.6967 0.6832 0.7597	0.999 1.000 1.000	-0.01 0.00 0.00	580.2 653.4 726.6	16.19 16.21 16.20	0.00002 0.00000 0.00000	0.000003 -0.000000 0.000000

PUN: 1	122271-2	X=46.							RUN: 12	2271-2	X=58.	Z= 0	•				
U[+ FF/2= F = K =	22.07 0.0037 -0.0040 -0.263E	9 L -06	01 - 0 02 - 0 00 - 1 099 - 0	0.0088 0.0667 1.4433 0.7610	8ETA 8 P+ V0+	= 0.07D =-1.059 = 0.001 =-0.065	RD2 H G	= 761. = 1.331 = 4.042	UI = 2 CF/2= F = - K = -	0.0037 0.0037 0.0039	-05	01 = 0 02 = 0 0C = 1 099 = 0	.0923 .0697 .5037 .8322	8ETA B P+ VC+	0.059	A D Z H G	* 773. * 1.325 * 3.991
۲	U	¥790	J/UI	10-01170	• Y+	U+	TAU	TAULAN	Y	U	Y/DC	0701	(0=9[370*	۲+	U.	TAU	TAULAN
0.005 0.006 0.007 0.007 0.008 0.009	4.58 4.81 5.36 5.85 6.47	0.0035 0.0042 0.0049 0.0055 0.0055	0.208 0.218 0.243 0.265 0.293	-12.88 -12.71 -12.30 -11.94 -11.49	3.5 4.2 4.9 5.6 6.3	3.38 3.55 3.95 4.31 4.76	0.00297 0.00293 0.00284 0.00275 0.00264	n.002748 0.002529 0.002310 0.002070 0.002182	0.005 0.006 0.007 0.008 0.009	4.27 4.33 4.56 4.96 5.92	0.0033 0.0040 6.0047 0.0053 0.0060	0.199 0.202 0.213 0.231 0.231	-13.05 -13.00 -12.83 -12.52 -11.87	3.4 4.1 5.4 5.4 6.1	3.24 3.28 3.46 3.77 4.42	0.00299 0.00298 0.00294 0.00287 0.00287	0.002557 0.002345 0.002133 0.002156 0.002400
0.011 0.013 0.015 0.017 0.019	7.51 8.50 9.44 10.34 11.07	0.0076 0.0090 0.0104 0.0118 0.0132	0.340 0.345 0.428 0.469 0.502	-10.72 -9.99 -9.30 -8.64 -9.10	7.7 9.1 10.5 11.9 13.3	5.53 6.26 6.95 7.62 8.15	D.00245 0.00228 0.00211 0.00195 0.00183	0.002041 0.001872 0.001736 0.001605 0.001663	0.010 0.011 0.013 0.015 0.017	6.42 7.05 9.03 9.96 9.92	0.0067 0.0073 0.0086 0.0100 0.0113	0.299 0.328 0.374 0.417 0.462	-11.42 -10.94 -10.20 -9.49 -8.76	6,8 7,5 8,9 10,2 11,6	4,87 5,35 6,09 6,80 7,53	0.00260 0.00249 0.00231 0.00214 0.00197	0.002478 0.002454 0.002126 0.002126 0.001657
0.021 0.023 0.025 0.029 0.029	11.89 12.54 13.02 13.81 14.27	0.0146 0.0159 0.0173 0.0194 0.0215	0.539 0.568 0.590 0.626 0.647	-7.50 -7.02 -6.66 -6.09 -5.74	14.7 16.1 17.5 19.7 21.8	8.76 9.23 9.59 10.17 10.51	0.00168 0.00157 0.00148 0.00135 0.00127	0.001329 0.001153 0.001007 0.000815 0.000879	0.019 0.021 0.023 0.025 0.027	10.79 11.42 11.46 12.52 12.79	0.0124 0.0140 0.0153 0.0166 0.0180	0.503 0.532 0.553 0.584 0.596	-8.10 -7.62 -7.28 -6.76 -6.57	12.9 14.3 15.7 17.0 18.4	8.19 8.67 9.01 5.51 9.71	0.00181 0.00169 0.00161 0.00150 0.00145	0.001285 0.001285 0.001131 0.001024 0.000950
0.034 0.039 0.042 0.046 0.052	14,74 15,30 15,72 16,10 16,39	0.0236 0.0263 0.0291 0.0319 0.0360	0.668 0.695 0.712 0.729 0.743	-5.40 -4.99 -4.68 -4.40 -4.18	23.9 26.7 29.5 32.3 36.5	10.86 11.27 11.57 11.86 12.07	0.00119 0.00109 0.00102 0.00096 0.00091	0.001540 0.011454 0.001377 1.001309 1.001234	0.029 0.031 0.034 0.037 0.041	13.37 13.82 14.30 14.66 15.10	0.0193 0.0206 0.0226 0.0246 0.0273	0.623 0.644 0.666 0.683 0.704	-6.14 -5.90 -5.43 -5.16 -4.92	19.7 21.1 23.1 25.2 27.9	10.15 10.49 10.86 11.13 11.46	0.00135 0.00127 0.00118 0,00112 0.00104	0.000964 0.000751 0.000511 0.000511 0.000511
0.060 5.071 0.086 0.111 0.151	16.82 17.22 17.64 18.06 18.50	0.0416 0.0492 0.0596 0.0769 0.1046	0.762 C.780 D.799 O.818 D.838	-3.86 -3.57 -3.26 -2.95 -2.63	47.1 49.8 60.4 77.9 106.D	12.39 12.6A 12.99 13.30 13.62	0.00085 0.00079 0.00074 0.00070 0.00067	0.000175 0.000128 0.000094 0.000063 0.000063	0.045 0.049 0.055 0.055 0.079	15.41 15.68 16.18 16.49 17.03	0.0209 0.0326 0.0366 0.0426 0.0525	0.716 0.731 0.754 0.768 0.794	-4.59 -4.38 -4.00 -3.77 -3.36	30.6 33.4 37.4 43.6 53.8	11.70 11.91 12.29 12.52 12.93	0.00099 0.00095 0.00086 0.00082 0.00074	0.000340 0.000291 0.000734 0.000178 0.000178
0.201 0.251 0.301 0.351 0.426	18.98 19.33 19.64 19.98 20.35	0.1393 0.1739 0.2086 0.2432 0.2952	0.860 0.876 0.990 0.905 0.924	-2.27 -2.02 -1.79 -1.54 -1.24	141.1 176.2 211.3 245.4 299.0	13.98 14.23 14.46 14.71 15.01	0.00063 0.00060 0.00058 0.00054 0.00054	0.000033 0.000028 0.000026 0.000025 0.000025	0.099 0.124 0.169 0.219 0.259	17.46 17,77 18.23 19.50 18.97	0.0658 0.0825 0.1124 0.1456 0.1789	0.814 5.829 0.850 0.862 0.862	-3.03 -2.79 -2.45 -2.24 -1.39	67.4 84.4 115.1 149.1 183.1	13.26 J3.50 13.84 14.05 14.47	0.00068 0.00065 0.00062 0.00061 0.00056	0.000077 0.000056 0.000038 0.000031 0.000027
0.576 0.676 0.776 0.776	20.85 21.23 21.62 21.87 22.03	0.3471 0.3991 0.4654 0.5377 0.6069	0.945 0.962 0.980 0.997 0.998	-0.90 -0.62 -0.33 -0.13 -0.03	351.7 404.3 474.5 544.7 614.9	15.35 15.63 15.92 16.12 16.23	0.00038 0.00029 0.00017 0.00008 0.00003	0.000019 0.000016 0.000011 0.000007 0.000004	0.334 0.409 3.509 0.609 0.709	19.32 19.69 20.16 20.63 20.91	0,2221 0,2720 0,1385 0,4050 0,4715	C.900 C.918 D.940 C.701 C.975	-1.62 -1.34 -0.99 -0.63 -0.41	227.4 278.5 346.5 414.6 482.7	14.67 14.95 15.30 15.86 15.89	0.00053 0.00049 0.00041 0.00031 0.00021	0.000024 0.000021 0.000018 0.000014 0.000011
1.001 1.176	22.09 22.07	n.6936 0.7802	1.001	0.01 0.00	702.7 790.4	16.27 16.25	0.00000	0.000001 0.000000	n.809 0.934 1.059 1.209	21.20 21.40 21.46 21.45	0.5380 0.6211 0.7042 0.8040	0.938 0.998 1.000 1.000	-0.19 -0.04 0.00 0.00	550.8 635.9 721.0 923.1	16.10 16.25 16.29 16.29	0.00012 0.00004 0.00000 0.00000	0.00007 0.000004 0.000002 0.000002

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RUN: 1	122271-2	x=70	. L= :	o.					RUNE	127271-	2 ¥=#7						
	30 77			0.061		051		- 700	111 -	20.34		51 = 0	1007	BET	. 0.046	RDZ	. R14.
CE /7+	0.0013		07 - 0	0.0433	0,011		N (22		CF/24	0.003	75	02 = 0	0.0772	в	=-1.065	H	1.304
	-0.0039	à	00 -	1 65 34	0	- 0 001	2	- 2 730	. F .	-0.0034	9.9	-0C ≠ 1	. 6457	P+	• 0.001	G	* 3.910
	-0 1875	-0.	000 - 0		vo.	- 0.001		- 34134	к.	-0.154	-05	090 = (9870	V0+	=-0.065		
n -		-00	()) - (••••	0.009											
۲	υ	¥7DC	0701	(0-01)/()= ¥+	U +	TAU	TAULAM	¥	u	Y/70	3701	(0-01)/0	н ү н	U+	TAU	T ልባቢ ልቀ
0.005	4.47	0.0032	0.213	-12.84	1.1	3.47	0.00797	0.003029	0.005	3,62	0.0030	0.178	-13.43	3.2	2.90	0.00305	0.007625
0.006	4.87	0.0039	0.212	-12.57	6.0	3.78	0.00285	0.002736	0,006	7,99	6.0034	3.190	-13.14	3.9	3.20	C.00296	0.002406
0.007	5.73	0.0045	0.256	-12.13	4.6	4 18	0.00775	0.007443	0.007	4.31	0.0043	3.Z11	-12,98	4.5	3,45	C.00292	0.002147
3.008	5.87	0.0051	0.282	-11.70	5.3	4.61	0.00265	0.002166	2,008	4.79	0.0049	0.235	-12.50	5.2	3.84	0.00283	0.002042
0,009	5.41	0.0058	0.309	-11.2A	5.9	5.03	0.00255	0.002189	0.009	5,35	0.0055	0.263	-12.04	5.9	4.29	C.00272	2.002133
									0.010	5.74	0.0061	0-282	-11.73	h. 4	4.40	0.00264	A CC2201
0.010	6.96	0.0064	0.330	-10.92	6.6	5.19	0.00246	0.002116	0.011	6.77	0.0067	0.105	-11 35	7.1	4.00	0.30255	0 002105
0.011	7.28	0.0071	0.351	-10.59	7.2	5.72	0.00238	0.072053	0.013	7.09	0.0079	0.348	-11.65		5 48	0.00239	0.002195
6.013	P.19	0.0084	0.394	-9.37	8.6	6.43	0.00221	0.001843	0.015	8.00	0.0091	6.393	-9.97	9.7	6.41	0.00721	0 001047
0.015	8.96	0.0097	6.431	-9.27	9.9	7.04	0.00207	0.001756	0.017	P. 87	0.0103	0.435	-9.73	11.0	7.11	0.00205	0.001441
4,017	9.78	0.0109	3.471	-8.63	11.2	7.69	0.00191	2.001598				• • • • •					510014-1
0.019	10 52	0 0177	0 504	-9.05	17 5	8 74	0 00177	6 001470	0*118	9.56	9.0115	6.469	-9.67	12.3	7.07	5.001.02	1.001732
0.021	11 18	0.0122	0.500	-7.53	12.5	6.20	0.001/7	0.001470	0.021	10.47	0+0159	0.514	-7.94	13.5	6.39	0.00174	0.001586
0 023	11.15	0.0155	0.541	-7.14	12.9	5.15	0.00165	0.001309	0.074	11.34	0.0146	0.557	-7.24	15.5	9.09	0.00157	0.001309
0.024	12.50	0.0167	0.407	-4.49	17.1	7.1-	0.00150	0.001210	0.027	12.72	0.0164	0.600	-6.54	17.4	9.80	0.00141	0,001070
0.029	11.23	0.0187	0.637	- 6, 41	10 1	10 10	0.00140	0.000854	0.030	12.37	0.0182	0.632	- 6+ 02	19.3	10.32	0.00128	0.000865
		0.010/	0.000	- 24 72			0.00127	0.00.0024									
0.032	13.66	0.0206	0.658	-5.53	21.1	10.72	0.00119	0.003732	0.034	13,37	0.0207	0.656	-5-61	21.9	10.72	0.00119	0.000691
0,035	14.08	0.0225	0.678	-5.26	23.0	11.05	0.00111	7.000595	1.038	1111	0.0231	-583	~ 5+18	24.5	11.15	0.00109	0.000546
0,039	14.56	0.0251	0.701	-4.97	25.7	11.43	0.00102	0.000473		14.44	0.0261	0.711	- 4. 73	27.7	11.61	C. 00098	0.000434
7,043	15.04	0.0277	0.724	-4.50	28.3	11.89	0.00094	7.000409	0,050	15.04	0.0304	0.741	- 4 - 2 4	12.2	12.10	0.00087	0.000336
0,048	15.34	0.0309	0.738	-4.27	31.6	12.04	0.00089	1,007331		17.01	0.0365	0.756	- 3. 52	38.7	12.51	0.00077	0.000235
									0.072	16.08	0.0438	0.789	- 3. 66	44.4	12.49	0.00069	0.000157
0.054	15.71	0.0348	0.756	- 3, 97	35.6	12.33	0.00082	0.000257	1.090	15.55	0.0547	0.413	- 3- 06	58.0	13.24	0.00061	0.000101
0.062	16.22	0.0399	0.741	- 3. 58	40.8	12.73	0.00073	7.0138	3,115	16.71	0.0699	0.830	+2.75	74.2	14-56	0.00056	3.000065
7.074	16,59	0.0476	0.799	- 3. 28	48.7	13.02	0,00068	0+000132	2.160	17.34	0.0972	2.951	-7.41	103.2	13.93	0.00051	0.003041
0.044	16.91	0.0605	0.414	- 3.03	61.9	13.27	0.00063	0.00093	7.225	17.75	0.1367	0.471	- 2.10	145.1	14.23	0.10046	2.000028
0.154	11.31	n.079#	0.533	- 2. 72	81.7	13.59	0.00059	0.000052									
0.164	17.73	0.1056	3.454	-2.39	108-0	13.92	0.00054	0.00038	0+300	1R.14	0+1873	0.830	-1.80	193.5	14.54	0.00043	0.000022
0.229	18.14	0.1474	0.473	-2.07	150.8	14.24	0.00051	0.000028	7.500	18.54	0.2431	3.910	-1.47	257.9	14.86	0.00038	0.000018
0.306	18.52	0.1957	6.891	+1.17	200 2	14 54	0.00049	0 000022	0,500	18,81	0.3038	7.927	+1.19	322.4	15.15	0.00034	0.000016
0.379	18-86	0.2439	0.908	-1.50	249.6	14.90	0.00045	0.000020	0.600	14.20	0.3644	0,942	-0.94	386.9	15.39	0.00030	0.000015
0.454	19.17	0.2922	0.923	-1.26	299.0	15,05	0.00041	0.000018	n.700	19.54	0.4254	7.959	-0.67	451.4	15.66	0.00024	0.00013
									0.800	10.03	0.4861	0.073	-0.44	515 0	15 00	0.00014	A
0.554	19.54	0.3566	0.941	- 0. 97	364.8	15.34	0.00034	0.00016	0.900	20.04	0.5465	3.943	-0.27	580.4	16.06	0.00010	2.00000
0.654	19,91	0.4210	0.958	-0.68	430.7	15.63	0.00026	0,000014	1.000	20.19	0.6077	0.991	-0.15	564.C	16.19	0.00005	0.000004
0.754	20.21	0.4853	0.973	-0.44	496.5	15.87	0.00018	0.00011	1.125	20.32	0.6834	0.997	-0.05	725.5	16.70	C. 00001	0.000003
0.454	20.45	0.5497	0.984	- 0. 25	562.4	16.05	0.00011	0.000008	1.250	20.34	0.7594	1.000	0.00	806.1	16.34	0.00000	0.000001
0.954	20.43	0.6140	0.933	-0.11	628.Z	16.20	0.00006	0.000006									01000001
1.079	20.75	0.6945	3,999	+0.02	710.5	16.29	0.00001	0.00003	1.375	20.39	0.8355	1.000	0.00	886.7	10.34	0.00000	0.00000
1.204	20.78	0.7750	1.000	0.00	792.8	16.31	0.00000	0.000301									
1.354	20.78	0.8715	1.001	0.01	a91.A	16.32	0.00000	-0.00001									
1.50	20.77	0.9681	1.000	c. 00	990.4	16.31	0.00000	0.000000									

123

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111111-0001-011

PUN: 1	177271-2	X=90	• Z•	n.					RUNII	22771-3	s x= 2	• 2=	r.			
01 =	20.14		91 •	0.1016	BETA	- 0.045	RDZ	. 822.	UI =	29.29		D1 -	0.6451	BET.	- C.C78	RD2 = 469.
CF/2=	0.0037	5	02 = 1	0.0790	8	=-1.069	н	= 1.286	CF/7*	0.003	99	02 -	6.6369		-1+027	H 1.460
F •	-0.0040	1	DC =	1.6576	P+	= 0.001	G	* 3.629	F *	-0.0039	9	CC *	• 7233	P+	- C.0018	6 - 5.055
К +	-0.140E	-06	N99 #	1.0294	¥C+	-0.065			κ.	-0. 4451	-68	055 -	C+5880	¥0+	-0.0540	
Y	U	Y/DC	UUI	(U-UT)/U4	• ¥•	U +		TAULAM	Ŷ	U	¥/0C	L/UI	(0-01)/0	• ••	U +	TAULAN
0.007	4.95	0.0041	0.248	-12.28	4.3	4.04		0.002838	6.014	6.92	0.6659	0.236	-12.25	4+1	2.79	J. Q . 2 96.
n.008	5.35	0.0047	3.266	-11.98	5.0	4.34		0.002691	0.005	7.89	0.0073	C. 269	-11.72	5.0	4.32	0.00274
0.007	5.85	0.0053	0.291	-11.58	5.6	4.74		0.002523	n.006	8.95	0.0087	0.307	-11.12	6.0	4.92	0.0.253
0.010	6.45	0.0059	0,320	-11.09	6.2	5.23		0.002387	0.047	9.92	0.0101	0.339	-10.61	6.9	5.44	0.00223
9.011	6.90	0.0065	6.342	-10.73	6.9	5.59		0.002396	6.08	11.07	0.0115	0.378	-9.58	7.9	6.06	0.00214
0.013	7.86	0.0677	0.390	-9.95	8.2	6.37		0.002151	0.016	12.92	0.0142	C.441	-8, 96	9.7	7.08	0.06179
7.015	8.80	0.0089	C . 4 37	-9.19	9.4	7.13		0.001876	0.012	14.42	0.0170	C.492	15	11.6	7.99	0.00147
0.017	9.53	0.0101	0.473	-8,59	10.7	7,73		0.001669	0.014	15.00	0.0148		-/++/	13.5	8.78	0.00121
0.019	10.22	0.0113	0.508	-8.04	12.0	6.29		0.001452	0.016	10.00	0.1225	0.567	-0.45	12.2	5.04	0.00101
0.022	11.91	010135	0.547	-7.39	13.9	8.93		0.001199	6.018	17.44	0.0253	C+252	-6.49	17.5	5.35	0.00.84
0.025	11.79	0.0150	r.535	-6.77	15.8	9.55		0.001044	C+C21	18.48	0.0294	0.671	-5-52	20.2	10.12	Ű. UGU65
0.028	12.25	0.0168	0.608	-6.39	17.7	9.93		0.000916	0.024	19.30	1. 1. 3. 3. 0		-2.41		10.37	0.00052
0.031	12.87	C.C186	0,639	-5.84	19.0	10.43		0.000795	0.028	21.03	0.0391			20.0	10.57	0.00039
0.035	13.58	0.0210	0,674	- 5. 32	22.2	11.01		0.000649	0.1154	20.95	0.0414	0.715			11.20	0.00027
0.040	14.22	r.r240	r.706	-4.79	25.4	11.53		0.000517	0. 142	21.67	0.0585	0.740	-4.17	40.0	11.01	G. CCC 19
0.046	14.71	0.0276	0.731	-4.40	29.2	11.92		0.000374	0.1.52	22.35	0.723	0.783	-3.80	49.5	12.24	C. 0(14
5.952	15.02	0.0312	0.746	-4.15	33.0	12.17		0.000285	0.104	//. 43	0.1859			0	12.50	0.00011
C.060	15.50	0.0361	n.770	-3.76	36.1	12.56		0.000212	0.079	23.01	0.11.96		-3+11	12.1	12.93	0.0009
0.071	15.85	0.0427	0.787	-3.49	45.2	12.95		0.000156	0.049	29.30	0,15/5	0.52	-2.10		13.34	0.01.00
P.086	16.33	0.0516	7.811	-3.08	54.7	13.24		n. C00109	£+124	25.20	0.1718		-2.71	11/*/	13463	0.0000
2.111	14.71	0.0668	0.930	-2.78	70.7	13.55		0.000069	0.154	26.23	0.2133	J. 855	-1.6B	146.1	14.37	0.000000
2.161	17.00	0.0970	0.849	-2.47	107.6	13.85		0.000040	3.194	27.41	C.2686	0.936	-1.^7	183.9	15.01	0.00005
0.236	17.66	0.1423	0.877	-2.00	150.4	14.32		0.000027	0.234	28.30	0.3239	r. 464	-7. 4	221.P	15.50	0.00035
7.311	17.94	0.1875	0.891	-1.78	198.2	14.54		P-000021	0.274	28.90	0.3792	č.987	-0.22	259.6	15.83	L. U.L.U.2.
r.411	18.35	0.2478	0.911	-1.45	262.0	14.47		0.000018	0.314	29.19	C. 4345	P. CC7	- 1 6	297.5	15.99	0.00001
0.536	18.77	0.3232	6.932	-1.11	341.7	15.21		0.000015	0.354	29.28	0.4858	1.000	-7.00	335.4	16.64	0.0000
0.661	19.14	0.3986	0.951	-0.81	421.4	15.57		0.000013	0.404	29.30	0.1589	Ler on	0.10	29.2+1	16.09	-0.0000
r.786	19,47	C. 4741	0.967	-0.54	501.1	15.78		0.000010	(*, 464	29.29	0.5419	1*466	0.0°	439,5	10+04	0.00030
0.911	19.75	0.5495	D.981	-0.31	580.9	16.01		n.cccoca								
1.036	19.94	0.62+9	0.990	-0.16	660.6	16.17		9.000105								
1.161	20.08	0.7003	0.097	-0.04	740.3	16.28		0.000003								
1.311	20.14	0.7908	1.000	0.01	836.0	10.33		3.000301								
1.461	20.14	D.RRI3	1.000	0.01	931.6	16.33		-0.00000								
1.617	20.14	0.9718	1.000	0.00 1	027.3	16.32		0.000000								

RUN:	122771-	3 X=16	. Z.	c.					RUN:	122771-3	K= 2 2	. I-	r.				
UI = CF/2= F =	26.80 0.0030 -0.0030	50	01 - D2 - DC -	C.(5E5 9.04C8 0.9625	BET. B P+	A= 0.18 =-C.97 = 0.00	6 PO 6 H 37 G	2 = 507. = 1.432 = 4.966	UI = Cf/2= F =	24.29 3.7034 -0.0032	n 2	01 * C2 * DC *	r.799 .0571 1.3676	8ET. 9 P+	A= 0.13 =-C.94 = 0.002	7 F02 Н 13 G	2 = 720. = 1.396 = 4.864
К =	-0.8361	9 D+1	D95 .	n • 1977	AÚ+	0.05	93		× =	-0.4678	-68	319 = 1	0.56 *Z	¥€•	=-C.05	57 57	
¥	U	Y/DC	L/L1	(1-11)	.* Y+	U+	TAL	TAULAN	Y	U	Y/DC	6701	(L-LT)/L+	¥+	U+	TAL	TALLAN
L. 005	5.92	0.0052	C. 721	-12.83	4.2	3.64	0.00295	1.042557	0.005	4.54	6.(037	0.167	-17.54	3.7	3.20	0.00283	0.002543
0.006	6.62	0.062	0.247	-12.40	5.1	4.56	0.00287	0-002363	V.006	5.07	0.1044	1.219	-13.56	4,4	3,58	0.01276	No 0 La 448
0.007	7.40	0.6073	C.276	-11.92	5.9	4.55	0.00277	11.6.42176	0.007	6.43	6.0051	0.265	-12.60	5.1	4.54	0.00259	0.002364
0.008	8.16	0.0063	0.304	-11.44	6. P	5. 01	1.03768	6.0.197.	0.009	7.15	0.0066	1.294	-12.10	6.6	5.04	0.00250	U. UU2058
V. 069	8.81	0.0794	0.329	-11.76	7.6	5.41	J.C.3260	J. JU1958	0.010	7.85	0. 1073	6.123	-11.60	7.3	5.54	0,00242	J.U02Cul
0.011	10.24	0.0114	0.382	-10-18	9.3	6.29	0.00243	0.0.608	0.012	9.07	v.(C85	0.374	-14.74	9.8	5.40	0.00226	u.001777
0.013	11.58	0.1135	0.432	-5.75	11.0	7.11	1.0227	0.001662	0.014	10.27	0.0102	0.423	- 5, 89	10.3	7.25	0.06212	J. 001643
0.015	12.82	0.0156	C.478	-P.59	12.7	7.86	0.00712	0-0-1401	0.016	11.20	0.0117	7.464	-9.10	11.8	7.56	6.00145	0.001430
0.017	13.91	0.0177	0.519	-7.92	14.3	F. 55	9.00198	0.0.101785	0.018	12.00	0.0132	C.454	-9.47	13.2	8.47	0.00190	0.001269
0.019	14.84	0.0197	6.554	-7.35	16.0	4.11	0.00198	0.0.1114	0.377	12.71	0.7146	C. 523	- E. 17	14.7	8.57	3.00182	J.001077
0.621	15.57	0.3718	0.581	-6.50	17.7	5.57	1.23179	0. 64.549	0.022	13.39	0.0161	0.551	-7.69	16.2	9.45	0.00173	0.000951
0.023	16.27	0.0239	0.607	6.47	19.4	9.99	1.00171	4.01.5.17	0.025	14.30	3.1183	··• 5 8 9	-7.05	19.4	10.09	0.03163	6.04.759
0.025	16.82	0.0260	C . 6 7 8	-6-13	21.1	10.73	0.03165	0.0.0675	0.028	14.77	0.0705	0.403	-6.71	27.6	10.43	0.00157	0.060652
6. 627	17.26	0.0241	6.644	-5.86	72.A	10.41	1.03160	the day had	0.031	15.46	0,0227	4+637	-6.23	22. B	10.51	0.00144	0.04.530
0.030	17.87	0.0312	0.667	- *. 49	25.3	10.98	0.00154	O. UUL 46B	0.035	16.04	0+0256	1.441	-5.92	25.7	11.32	3.00142	0.006413
0.033	18.26	0-0343	0-681	-5.25	27.9	11.22	0.00150	A. 11.1.28.4	0.641	16.63	0.0302	0.885	-5.40	30.1	11.74	C.0013c	0.00.310
0.037	14.43	0-0384	0.703	-4.90	31.2	11.57	0.00196	0.000500	1.649	L7.20	9.0356	L.768	- 	36.0	12.14	0.00130	0.000215
0.642	19.18	0.0436	6.721	4.54	35.4	11.01	1 01140	A (1) 744	0.61	17.80	0.0446	1,733	-4.57	44.8	12.57	0.03124	J. LOL149
0.648	19.76	0-0499	0.737	-4.12	46 - 5	12.14	0 00137	1 1.519.	0.076	18.40	0.1556	C. 758	-4.15	55.8	12.99	0.00115	C.OLLIL9
0.(56	20.27	0.0582	C.756	-4.01	47.3	12.45	0.00134	3.06.1.40	C. C96	18.52	C. 07C2	(.779	-3.78	76.5	13.36	0.00115	U.LOUL82
3.1.66	20.72	C- 0484	6.333	-1.74	85.7	12.71		a 10 . 3 1 .	0.121	19.40	0.7685	7.799	-3.45	88.9	13.69	0.70111	0.0000666
0.078	21 . 23	0.0810	0.792	-1.42	A.S. 8	13.64	0.10120	0.000116	2.151	19.97	0.1104	0.822	-7.74	110.5	14.10	0.00106	0.000055
0.693	21.45	0.0566	0.86	-1.14	70 5	13 34	1 1 1 1 2 9	0.000076	0.166	27.48	5.1360	1.843	-7.69	136.6	14.45	0.00101	0.040648
0.111	22.16	0.1174	D. 82T	-7.85	95.4	11.41	1 11120	1.66144	0.226	21.05	3.1653	3. 667	-7.28	164.0	14.86	0.00093	0.000043
0.138	22.73	0.1434	U. 84 A	-2.50	116.5	13,96	0.00121	0.003059	0.276	21.63	0.2018	J. 851	-1.67	202.0	15.27	c.cccaz	4 0WU39
0.168	23.35	0.1745	G. 871	-7-17	141.4	14.34	0.33113	3-34-53	4.326	22.23	0.2384	r.915	-1.45	235.5	15.69	0.00070	0.000(-34
0.208	24.09	0.2161	3.800	-1.67	174.8	14.10	1 1 1000	0.000047	0.376	22.72	0.2749	2.936	-1.1(276.2	16.04	C.CC057	0.000030
0.248	24.79	0.2577	6.974	-1.25	200.3	15.22	0.00081		3.431	23.26	0.3152	0.558	- 5.73	316.6	16.42	0.00043	0.000024
0.298	25.53	0.3056	C. 5 * 3	-0.78	281.8	15.49	0.00058	0-4 1010-32	0.491	73.67	0.35.0	0.975	-7.43	7.045	16.71	0.01030	3.000016
C. 348	26.11	0,3616	0.974	-0.43	293.7	16.04	6.00338	0.00023	u. 550	24.62	6.4666	C 63	-0.19	40.8.4	16.96	0.00019	0.00012
0.398	76.54	0-4135	n. sen	-0.14	735.0	14.30	0.03324	A 1.0 1.1 5	2.631	24.23	G.4614	6.558	-0.04	463.5	17.10	0.00011	0.000007
0.448	26. 74	0.4655	0.558	-7-16	378.1	14.41	0.00014	0.000000	6.706	24.30	C. 5162	1.000	0.03	518.6	17+15	C. 00005	0.00.003
3.568	26.82	0.5278	1.001	0.01	428.7	16.44	0.00004	3.06.1	0.781	24.31	0.5711	1.771	C. 12	573.7	17.16	C.CCCCZ	0.000000
0.573	26.83	1.5951	1.001	0.02	483.4	16.44	0.00100	-1.1.1.1.1.1	0.856	24.31	0.6259	1.001	0.02	628.8	17.16	0.00000	-0.000002
0.648	26.80	0.6733	1.000	c	546.9	16.47	0.00000	U. 0ú. 3L 0	n.931	24.29	0.6818	1.000	r.nc	683.5	17.14	0.00000	0.0000000

RUN:	122771-	3 X=34	. /-	o.					RUN: 1	22771-	X=46.	. Z• (.				
			~ -						- 10	21.99		91 • 4	7.1168	BET	- 0.110	RD2	- 570.
	22.97		01 -	0.0904	00 17				CF/2=	0.003	0	C2 × 0	D.CB51	B	=-0.976	н	. 1.374
LF/2*	0.0032	1	02	0.0700				1+362	F .	-0.0021	7	DC =	7.1586	P+	- 0.001	5 G	* 4.887
r =	-0.0030		00 -	1.0480		- 0.001	6 6	- ++003	× =	-0.2571	-06	059 = 0	.8314	¥0+	-0.051	5	
к -	-0.3318	-08	C99 = 1	6-0440	AG+	-0.052	28					•				-	
۷	U	¥7DC	0701	(0-01170	• Y+	U+	TAU	TALLAM	•	U	V/DC	0.01	(0-011/0	¥ Υ+	U+	TAU	TAULAH
0.006	5.19	0.0033	C.226	-13.63	3.8	3.58	0.00256	0.002672	0.005	3.45	0.1024	7.157	-15,15	3.2	2.81	7.00266	0.002173
0.007	5.72	0.((35	C.249	-13 22	4.5	4.39	0.00250	0.002467	0.006	3.74	0.0059	0.170	-14.91	3.8	3.05	1.00263	0.002056
0.608	6.19	0-0045	0.270	-12.86	5.1	4. 75	0.00244	C+ D07 31/2	0.007	4.10	0.0033	0.IB6	-14.61	4.4	3.35	0.00258	0.001939
0.009	6.74	6-0051	0.294	-12.44	5.8	5.17	0.00237	0.002012	0,008	4.50	0.0038	0,205	-14,29	5.1	3.67	0.00253	0.001785
0.011	7.81	0.0062	0.341	-11. (1	7.2	6.00	0.00224	0.001829	0.010	5.37	0.1048	3.244	-13.58	6.3	4.38	0,00243	0.061853
0.013	8.56	0.0074	0.390	-10.74	8.5	6.87	0.00209	0.001702	0.012	6.41	0.(157	0.251	-12.73	7. E	5+23	9+00230	0,001838
0.015	9.85	0.0086	9.429	-10-16	9.9	7.55	C.CC198	0.001564	0.014	7.34	0+(67	n.334	-11.97	8.9	5.99	0.00214	0.001768
0.017	10.38	0.0058	0.452	-9-66	11.2	7.96	0.00192	0.001386	0.016	8,18	6.0016	0.372	-11.28	10.2	6.68	0.00207	0.001647
0.619	11.45	0.0110	C. 458	- 8- F 3	12.4	F. 78	0.00178	0.001/74	0.018	9.05	0,7086	0+411	-10,57	11.4	7.39	C. CC196	0.001540
3.021	12.10	0.6121	0.527	-8-33	13-9	9.28	0.00170	0.001132	0.020	9,86	0.0095	u. 44E	-9.9I	12.7	A.C5	0.00186	0.001364
0.023	12.53	0.0133	3.546	-8.00	15.3	5.61	0.00165	0.000974	0.022	10.41	0.0105	0.473	-9.46	14.0	8,50	6.00179	0.001257
0.025	13.23	0.0145	0.576	-7.4t	16.6	10.15	0,00156	U. 00,759	0.024	11.19	0.0114	9.509	-8.82	15.2	9.14	0.00170	0.001090
0.025	13.77	0.0163	0.600	-7.05	16.7	10.56	0.00150	0.000653	G. C27	11.63	0.129	0.538	-8.30	17.1	9.66	0.00162	0.000899
0.032	14.33	0.0186	3.674	-6.62	21.4	10.99	0.00143	3.00.510	0.030	12.55	0.0143	0.571	-7.71	19.0	10.25	0.00153	0.000761
0.037	14.92	0.7216	0.650	-+.17	24.7	11.44	0.00136	0.000375	0,034	13,09	040162	0.595	-7.27	51.6	10.69	0.00146	3.000593
									6.011	13 60	0.0101		.4.75				
0.044	15.54	0.0257	0.676	-5.70	29.5	11.91	0.00158	0.006282	0.038	13.00	0.0101	9.622		2.1	11.11	0.00134	0.000485
0.053	16.14	0.0310	3.703	-5.23	35.6	12.38	0.00123	0+000207	0.044	14.39	0.0210	1.0014	- 5 - 2 1	21.9	11.75	0.00131	0.000357
0.066	16.68	0.0386	6. 126	-4.82	44.4	12.79	0.00118	0.000145	0.052	14.94	0.0248	0.014	-2.10	55.U	12.20	0.00125	0.000264
0,084	17.31	0.0492	0,754	-4.34	56.5	13.27	0.00112	0.000101	0.002	12.33	0.0295	0.057		37.4	12.52	0.00121	0.000185
0.104	17.69	0.0610	0.770	-4.05	70.0	13.56	0.00109	0.000677	0.075	12.41	0.0357	0.125	-4.97	41.5	12.99	0.00115	0.000129
							3 99195		0.092	16.42	0.0438	0.746	-4.56	56.4	13.40	0.00110	0.000095
0.129	18.18	0.0/5/	0.192	-3.61	87.0	134.94	0.00103	0.000080	9.120	16.82	0.0572	C. 765	-4.23	76.Z	13.73	0.00107	0.000069
0+159	18.59	0+0934	0.809	- 3. 36	107.2	14.25	0.00101	0.000050	0.150	17.27	0.0715	0.765	-3.86	95.2	14.10	0.00103	0.006053
0.199	19.06	0.1170	0.830	-2.99	134.3	14.62	0.00096	0.000043	0.190	17.75	6.0905	C . 8C 7	-7.46	120.6	14.50	0.00099	0.000044
0.244	19.50	0.1435	0,849	-2.66	164.7	14.95	0.00091	0.000038	Q. 240	18.26	0.1144	0.830	- 7. 05	152.4	14.51	0.00094	0.000037
0.294	20.05	0,1729	C.873	-2.24	198.5	15.3	0.00084	0.000035									
6. 344	20 - 53	0.2024	0. 894	-1.87	232.3	15.75	0.00076	0.000032	0,290	18.66	0.1382	0.646	-2.72	184.1	15.24	0,00090	0.000033
0 304	20 00	0 2218	0.510	-1.50	766 1	16.02	0.00067	0.000029	0+340	19.08	0.1620	0.867	-2+38	215.9	15.58	C.30C84	0.000631
0.460	21.50	0.2740	3.934	-1.12	316.8	16.40	0.00052	0.000625	0.390	19.43	G.1858	C.883	-2.10	247.6	15.07	0.00077	0.006029
0 644	27.00	0 3701	0 550	-0 74	347 4	14.07	C. CC037	0.000025	0.447	19.77	0.2C97	n.899	-3.82	275.4	16.14	0.00071	0.000028
0.544	77 46	0 3443	0 677	-0.40	418.3	17.21	0.00076	6.000010	0.490	20.14	0,2335	0.516	-1.53	311.1	16.45	0.00063	0.000026
0.014	66.43				41693	1.451	0.00024	0.000019									
0.694	22.72	0.4085	0.989	-0.19	469.0	17.42	0.00014	0.006016	0.550	20.51	0.2621	0.932	-1.21	349.2	16.75	0.00054	0.000023
0.769	22.90	0.4526	0.997	-0.05	519.7	17.56	0.00007	0.000006	0.625	20.57	0+2578	0.953	-7.84	396.8	17+12	0.00042	0.000050
0.844	22.97	0.4368	1.000	0.00	570.4	17.61	0.00003	0.000003	0.700	21.30	0.3336	1,969	-9.56		17.40	0.00029	U. 000015
0.944	22. 9A	0.5557	1.000	0.01	638.0	17.62	0.00000	-0.000001	0.775	21+61	U. 3693	6.983	-0+31	•¥Z+1	17.65	0.00019	0.000015
1.044	22.97	0.6146	1.000	0.00	705.6	17.61	0.0000	0.000000	0.850	21.63	0+4050	0,997	-n.14	535.7	17.62	0.00011	0-000008
									0.950	71.95	0-4*27	6-558	-0-14	603.2	17.57	8.00004	0.0000.04
									1.050	21 00	0.5003	1-000	0.00	666.7	17.56	0.00000	3.500 40
									1.090				0.000				

RUN: 122771-3 .×≠58. ₹= 0.								R UN 1	RUN: 122771-3 X=70, Z= C.									
								- 1/+7 UT - 20-77				01 = (1449	BET	RET As 0.096 ND2 = 1367.			
			R	B =+C-91A H			C F/2	0.002	93	72 = 0	. 1084	8	-C.91	. н	H = 1.337			
E = -0.00276			0C - 3	7.3467	P+	= 0.001	3 6	= 4.505	F	-0.302	68	CC = 2	2.6754	••	- 0.001	11 G	= 4.055	
K = -0.210E-06			099 = 0	0.9474	VC +	=-0.050	3		κ,	-C.176	E-C6	059 = 1	1-0851	¥0+	0.049	5		
Y	U	Y/DC	L/LI	16-01170	∗ γ+	U+	TAU	TAULAM	۲	U	¥700	ι/tr	(0-01170	• Y+	U+	TAU	TAULAM	
0.005	3.30	6.7021	7-155	-15-39	3.0	2.82	0.00259	0.002023	0,000	5 3.48	0.0019	0.167	-15.38	2.9	3.09	3.03249	0.062426	
0.006	3. 39	0.0026	0.159	-15.31	3.6	2.90	0.00258	0.001833	3.004	3.80	0.0022	0.183	-15.10	3.5	3.3B	0.00245	0.002210	
0-007	3.68	0-0033	0.173	-15-07	4.2	3.14	0.00255	0.001643	0.001	4.17	0.0026	0.201	-14.77	4.1	3.71	0.00241	0.002000	
0.008	4.05	0.0034	0.190	-14.75	4.8	3.46	0.07250	0.401726	0.001	4.68	0.0030	D+ 225	-14.32	4.7	4.16	0.00234	0.001954	
0.009	4.47	0.0038	0.210	-14.29	5.5	3.83	0.00245	0.001974	3.00	5.16	0.0034	7.249	-13.80	5.2	4,59	0.00228	ü. L.ZL 39	
											c ()]]		12 12			0.00134		
0.010	4.98	0.643	A. 234	-13.56	6.1	4, 26	0.00239	0.002041	0.010	2	3.0051	203	-13+02	7.0	2.00	0.00224	0.002025	
0.012	6.76	0.0051	3.285	-13.03	7.3	5.18	0.00225	0.002039	0.014	C • • • •	0.0045	0.161	-11 00	1.0	2+12	0.00212	0.001851	
0.014	6.94	0+0040	0.326	-12-28	8.5	5.54	0.00214	0.001900	0.01	1.30	0.0052		-11.14	2.4	7 1/	3 60147	0.001093	
0.016	7.61	0.0068	0.367	-11,54	9.7	6.68	0.00204	0.001568	0.010		0.000	1,100	-10 77	10 5		0.00142	0.001340	
v.C18	8.69	0.0077	C.4(8	-10,79	10.9	7.43	0,10193	0.001451	0.010	0.00	0.000	4.0411	-10014	10.00		0.00104	0.001302	
				-10 -21			0 00184	0.001367	0.020	9.26	0.0075	0.446	-10.24	11.7	8.23	0.00177	U. U.L 251	
3 020	9.30	0.000	0 474	-6.58	13.9	8.64	0.00175	0.001173	2.02	10.09	0.0086	C.486	-9,50	13.4	8.97	0.(0167	0.001083	
0.026	10.10	0 0111	0 511	-9. ar	15.8	\$ 31	0.00165	0.001004	1.026	10.76	1.00.97	0.51B	-8,50	15.2	5,57	C+C0159	0.041934	
0.026	10.89	0.0176	0.511	- 8 - 3 3	17.4	10.00	0.00154	0.1.8.850	0.031	11.69	0.0116	7.562	-8.19	18.1	10.39	0.00147	0.000702	
0.027	17 70	0.0124	3.577	-7.70	19.4	10.51	0.30145	0.000745	2.036	12.49	C.0135	C.601	- 7. 37	21.0	11.11	0.00137	6.003551	
V. V.)r	11.027	010130																
0-035	12.71	0.0149	3.567	-7-35	21.2	10.87	0.00143	0.06618	0.041	13.03	6.0153	r. 627	-4.89	23.9	11.58	0.00131	ú. Juu 429	
0.139	13.19	0.0166	0.619	-6.54	23.6	11.28	0.00138	0+000482	0.046	13.26	0.0172	0.638	-6.68	26.8	11.80	3.C3128	0+0-0343	
0.044	13.75	0.0188	0.646	-6.45	26.7	11.76	0.00131	0.00.377	V. C5	13.92	0,(158	C. 670	-6.10	37.9	12.38	0.00120	0.003253	
0.053	14.09	0.0213	0.662	-6.17	36.3	12.05	0.00127	0.000297	C. 062	14.25	0.0232	0.685	-5.90	36.1	12.67	C.CO117	0.000192	
0.157	14.62	0.0243	P.687	-5.71	34.6	12.51	0.00121	3.000232	076 ئ	14.72	C.(284	C.7C5	-*.38	44.3	13.09	C.00111	0.00.138	
									n na.	15 21	0 0359	C 111	-4 61	54.0	12.54	0.00106	0.000087	
0.767	15.03	0.0286	0.706	-5.36	40.6	12.86	0.00116	0.000170	0.121	15.41	A. 0452	0.751	-4.59	70.5	13.68	0.00102	0.000070	
0.079	15.43	0.0337	0.724	-5.02	47.5	13.20	9.90112	0.000130	0.151	14.01	0.0564	(. 772	-4.27	88.0	14.74	C.CCC98	0-012-053	
0.099	15.91	0.0422	0.747	-4.61	60.0	13.00	0.00108	0.000009	0.191	16.34	0.0676	0.787	- 7.54	105-5	14.53	0.00056	0.0000044	
0.129	16.36	0.0550	0.7ea	-4.22	78.2	14.00	0.00104	0.00004	0. 221	16.72	0-0826	0.845	-3-61	178.8	14.97	0.00092	0.000037	
0.169	16.89	6.5720	0.753	- : . /8	102.5	14444	0.00099	0-000041										
a 209	17 79	0.0801	0.812	- 3- 42	126.7	14.79	0.00096	J. OULL 39	0.271	17.00	0.1013	0.918	-3.36	158.0	15.12	0.03089	0.000032	
0.250	17.47	0.1104	0.830	-3-10	157.0	15.12	0.00092	0.000034	0,331	17.44	0.1237	0.240	-7.96	193.0	15.51	0.00085	0.000029	
0 1 0	17.08	0.1117	0. 444	-2.24	187.3	15.38	0.00089	3.006.31	0.406	17.90	0.1517	0.862	-2.55	236.7	15,92	0.00079	0.000026	
0 104	18 56	0.1437	0.071	- 2. 34	232.8	15.87	0.00081	U. CUUC27	0,506	18.41	0.1891	649.3	~2.10	295.C	16.37	0.00070	0.000023	
0.459	18.97	0.1956	0.891	-1.99	278.2	16.23	0.00074	0. 466425	0.606	18.93	0.2264	0,912	-1.63	353.3	16.84	0.0059	0.000021	
0.534	19.44	0.2276	0,913	-1.59	323.7	16.63	0.00064	0.000023	0.100	19.39	C . 26 38	0.933	-1.23	411.0	11.24	0.00048	0.000018	
0.609	19.80	0.2556	0,930	-1.28	369.1	16.94	0.00055	0.000020	6.806	19.79	0.3012	0.553	-0.07	407.9	17.60	0.00037	0.000015	
0.739	26.28	0.3022	0.552	-6.61	429.8	17. 75	0.00041	U+ JUÜÖ17	0.900	20.14	0.3385	0.041	-0.31	72002 ED6 E	10 16	0.00025	0.000012	
5.86.9	20.68	C.3448	0.971	-^.53	490.4	17.69	0.00027	0.000013	1.100	20.42	0.3759	0.983	_6 12	460 1	10.10	0.00015	0.000004	
0.909	21.02	0.3874	C.se7	-0.24	551+0	17.58	0.00016	0.000009	1.111	27.003	V. 4220	4.433		0 9 9 4 3	1 0 9 3 3	0.00006	0.000008	
				-0.00	411 4	18.13	0.0008	4.00.004	1-256	20.75	0.4653	0.999	-0.07	732.2	18.45	0.30001	0.000533	
1.009	21.19	V. 4 301	0.000	-0.09	472.3	18.20	0.0003	0.00000	1.406	20.78	0.5253	1.000	0.01	819.6	18.48	0.0000	6. 00000a	
1.109	21.28	0.4127	0.999	-0.01	712.8	18.23	0.00000	G. 00000 J	1.556	20.77	0.5814	1.000	0.00	907.1	18.47	0.00000	0.000000	
1.709	21.51	174 51 53 A 5700	1.001	0.00	633.4	18.77	0.0000	U. OUDDLL										
1.359	21.5V	0.2145	4.000	··• ···		10002												

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RUN: 1	22771-3	X=82	• I=	٥.					RUN:	22771-3	3 X=50	. Z=	c.			
UI CF/2= F K	20.35 0.0028 -0.0025 -0.1518	16 19 C 6	01 DZ DC D99	C.1597 C.1193 Z.58E7 1.2074	88 TA 8 7+ 70+	- 0.089 0.907 - 0.001 0.048	R 0 2 H G 5	= 1258. = 1.339 = 4.739	UI = CF/2= F = K =	20.01 0.0028 -0.0029 -0.144	82 56 E-06	01 = 1 D7 = 1 DC = E99 =	C.1674 P.1266 3.1307 1.2588	867) 8 9+ VC+	= 0.089 =-0.906 = 0.0010 =-C.C482	RDZ = 1514. H = 1.325 G = 4.589
۲	U	¥700	6701	(0-01)/0	, • • •,	Ű+	TAU	TALLAM	۲	U	Y/DC	U/U1	(6-01)/0	• Y+	U+	TAULAN
0.005	3.04	0.0017	0,150	-15.51	7.8	2. 80	0.00240	0.062033	0.007	3.93	D.0022	0+197	-15.12	3.7	2.70	0.06238
0.006	3.21	0,0020	0.158	-15.76	3.4	2.95	0.00243	0.001759	0.008	4.37	0.1025	0.218	-14.71	4.3	4.17	0.00227
0.007	3.47	0.(023	0.171	-15.52	3.5	3.19	0.00238	u. 061564	0.009	4.84	C•LG55	r.242	-14,27	4.9	4.55	0. UU216
0.(08	3.86	0.027	0.189	-15.17	4.5	3.55	0.00234	0.0(1398	0,010	5.31	0.0331	r.265	-13,87	5.4	4.99	U. CC2L6
0.009	4.19	0.0030	0+206	-14.P6	5.1	3.85	0.00231	U.U.1528	0.012	6.03	6.0037	0.3CI	-13.15	6.5	5.67	3.00191
0,010	4.47	0.(033	0.220	-14.60	5.6	4.11	5.36227	0.001684	0.614	6.84	0.0044	G. 342	-12,39	7.6	6.43	C.GU171
0.011	4.79	0.037	0.736	-14.30	é. 2	4.41	C.00222	u. C 01749	0.016	7.64	6.0050	0.382	-11+63	8.7	7.19	0.00155
0,012	5.20	C. CO40	0.256	-17.73	6.8	4.78	6.00211	6.061786	0.C1P	8.24	C.0056	C.412	-11-(7	9.8	7.75	0.00144
0.014	6.06	C+0047	C.258	-13,14	7.9	5. 57	0.00202	0.JC1841	3.620	8.74	0.0063	0.437	+16.90	10.5	8.21	U. J LE 2 9
0.016	6.81	0.054	0.335	-12.45	9.0	6.26	0.00194	0.001833	0.023	9.65	0.9072	C.4E2	-4.75	12, 4	4 C7	0.0010E
0.018	7.47	0.0060	C . 365	-11.89	10.1	6.83	L.00162	J. 0L1713	0.027	10.38	0.0085	0.519	-5.(5	14.8	5.76	J.OUL 87
0.020	B- 40	0.0067	C . 41 3	-10.99	11.3	7.73	0.00175	0.001549	0.631	11.07	6.00.08	C.553	-8.41	17.0	10.41	3. 66065
0.022	9.13	0.0074	C.449	-10.32	12.4	E. 40	0.00160	0.001415	0.036	11.76	C.0114	0.587	-7.76	19.7	11.06	6.3665.
6.024	9.59	0.0080	0.472	-9.99	13.5	8.82	6.00162	0,061241	0.042	12.28	0.°133	0.614	-7.27	23.0	11.55	U. COL 41
0.026	10.05	0.0067	0.494	-9.47	14.7	5.24	0.00154	0. vulue 6	0.050	12.81	0.0158	0.640	-6.77	27.5	12.04	3.00.30
0.029	10.72	0.0097	0.527	-8.85	16.3	5.86	0.00149	0.006834	U. C63	13.51	0.0199	C.675	-6.11	34.6	12.71	0.0.0.020
0.032	11.17	0.0107	C.549	-8.44	18.0	10.27	0.03142	0. úCL 726	0.181	14.09	0.0256	0.704	-5.57	44.5	13.25	0.00013
0.036	11.71	0.0120	C.575	-7.95	Z7.3	10.77	0.00137	0.000589	6.105	14.72	0.7342	r.735	-4.58	59.4	13.84	0.04069
3.940	12.17	0.0134	0.55 B	-7.52	22.5	11.19	0+00129	0.01.427	0.143	15.15	C.0453	C.757	-4.57	78.7	14.25	C.CO.U.6
0.046	12.79	6.0154	r. 629	-6.55	25.5	11.77	0.00123	0.000387	0.193	15.68	0.0612	0.763	-4.18	106.3	14.74	C. JL604
0.054	13.30	C.C381	0.653	-6.48	30.4	12.23	ű.0011 ə	U.CLUZEB	Ú.263	16.13	L.C834	0.806	-3.65	144.9	15.16	u. (() U3
0.066	13.90	0.0221	0.683	-5.97	37.2	12.79	3.00113	0. CGC198	0.363	16.71	0.1151	0,835	-3.10	500°C	15.72	3.0.002
0.781	14.43	0.0271	C.769	-5.44	43.7	13.27	0.00136	0.023138	(· • 463	17.22	0.1469	0.894	-2+63	255.2	16.19	J. UULU2
0.106	14.90	0.0355	0.732	-5.01	59. B	13.71	0.00100	Ú. JUJL 91	0.588	17.74	0.1866	7* 669	-2.14	324.1	16.68	J. 0 CC 0 2
0.146	15.54	0.0489	0.764	-4.47	87.3	14.29	3+61015	0.006659	0.733	18.26	0.2262	0.512	-1.65	303*6	17,17	5.00001
0.196	16.06	0.0656	0.789	-3.94	110.5	14.77	0.00092	0.000042	0.863	18.77	0.2738	C.538	-1.16	475.7	17.65	0.00001
J. 246	16.37	0.0823	C. EC 5	-3.65	138.7	15.06	0.00037	6.00063	1.063	19,38	0.3373	7.968	-7.50	586.C	16.22	0. 00001
0.321	16.88	0.1074	C+830	-3.19	191.0	15,53	G. DC 682	Un OQUUZ B	1.263	19.82	J. 4(C 8	r. 99A	-7.18	696.3	18.64	3.36060
0,396	17.28	0.1325	0.E50	-2.92	273.2	15.90	0.30070	0.003625	1.513	20.01	0.4801	1.000	5+CC	834+1	18.82	C. 01000
0.496	17.77	0.1660	C.973	-2.37	279.6	16.34	C. 00 Dc B	0.000022	1.813	20.03	3.5754	1.001	r • ^2	449.5	18.84	0.00000
ú.596	18.21	0.1954	6.895	-1.96	336.0	16.75	J. 66854	0.0LUC2L	1.913	20.01	0.6771	1.00	0.00	1054.6	18.82	0.000000
0,696	18,67	0.2329	0,917	-1.55	392.4	17.17	0.00047	0.00018								
0.821	19.15	0.2747	C.941	-1.10	462+8	17.61	6.00034	0.000015								
0.946	19,55	C. 3165	n. 561	-0.73	523.3	17.98	0.36023	0.000012								
1.096	19.95	0.3667	C.9EI	-*• 36	617.9	18.35	0.00013	0.000008								
1.246	20.21	0.4169	0.993	-0.13	702.4	18.59	0.00004	U. JUU 005								
1.396	20.33	0.4671	0.999	-C.01	787.0	16.70	6.30003	Ge 00000 3								
1.596	20.35	0.5340	1.000	C+00	89.9.7	18.71	0.30003	0.0000000								

RUNI	121671-	3 2= 2	· 2*	o.				RUN: 1	21671-3	3 X+10	. 2-	o.				
UI = CF/2= F = K =	29.30 0.0032 -0.0010 -0.4410	23 19 - 06	D1 = D2 = D2 = D99 =	0.0495 9.0330 0.5706 0.2973	НЕТ. В Р+ VO+	-0.104 -0.617 -0.002 -0.035	RD2 = 510. H = 1.499 G = 5.855	UI = CF/2= F = K =	26.95 D.0028 -0.0019 -0.8268	82 98 E- 06	01 = 02 = 00 = 099 =	0.0774 0.0522 1.4571 0.4537	BETA 8 9+ V0+	• 0.322 •-0.703 • 0.006 •-0.037	RD: M G	- 741. - 1.492 - 6.129
۲	U	¥700	1/01	10-01170	ј н ү н	U+	TAULAM	Y	U	Y/DC	3701	(0-01170	· · ·	U+	TAU	TAULAM
0.004	6.33	0.0049	C.216	-13.80	3.8	3.01	C.002595	0.005	4.87	0.0034	0.181	-15.43	3.8	3.41	0.00257	0.0020A1
7.005	7.14	0.0001	0.244	-13,31	4.6	4.29	0.002384	9.006	5.39	0.0041	0.200	-14.07	4.5	3.76	0.00249	0.00196
0.n06	8.05	0.0072	0.275	-12.77	5.5	4.83	0.002173	0.007	5.95	0.0048	0.221	-14.09	5.3	4.16	0.00246	0.001846
P. CO 7	8.94	0.0084	0.305	-12.23	ò.4	5.37	0,001882	0.008	6.64	0.0055	0.246	-14.20	6.0	4.64	0.00242	0.00173
3.000	10.50	0.0107	0.362	-11.23	8.Z	6.37	0.001707	0.009	7.35	0.0062	0.273	-13.70	6.8	5.14	0.00238	0.101754
7.011	12.00	0.0130	0.410	-10.39	9.9	7.21	0.001508	0.011	8.69	0.0075	0.323	-12.70	e.3	6.09	0.00230	0.001660
0,013	13.48	0.0153	0,460	-5.50	11.7	8.10	0.001341	3.013	9,94	0,0089	0.369	-11.89	9.8	6.94	0.00223	0.001469
3.015	14.63	0.0176	0.499	-9.82	13.4	8.79	0.001180	0.015	11.03	0.0103	C.409	-11.13	11.3	7.71	0.00216	0.001201
9.017	15.62	0.0100	C.533	-8.22	15.2	9.39	0.000996	0.018	12.59	0.0124	0.467	-10.04	13.6	6.80	0.00207	0.001054
0.019	16.55	0.0222	0.565	-7.56	16.9	9.95	0.000833	0.022	13.01	0.0151	7.516	-9.12	10.6	9.72	0.00200	0.000734
9.021	17.27	0.0245	0.539	-7.23	16.7	10.37	0.000704	0.078	15.58	0.0192	0.578	-7.95	21.1	10.89	0.00192	0.000532
7.024	10.02	0.0279	0.615	-6.7ð	21.3	10.83	0.000551	3.036	16.77	0.0247	3.522	-7.11	27.1	11.72	0.00187	0.000342
0,027	18.69	0.0314	n.638	-6.37	23.9	11.23	0.000441	0.044	17.58	0,0302	0.652	-6.55	33.2	12.27	0.00184	0.000242
0.031	19.40	0.0360	0.662	-5.95	27.4	11.66	0.000350	0.054	18.28	3.0371	0.678	-6.06	40.7	12.77	0.00101	0.000172
0.016	20.00	0.0417	0.696	-5.53	31.0	12.07	9.000276	0.046	18.98	0.0453	0.704	- 5. 57	47.8	13.27	0.00179	0+000130
0.042	20.75	0.0486	0.708	-5.14	37.1	12.47	0.000218	0.074	19.50	0.0542	0.723	- 5. 21	59.6	13.63	0.00177	0.000107
1.048	71.26	0.0555	C+726	- 4.83	42.4	12.77	0.000151	0.099	20.18	C.0679	0.749	- 4.73	74.6	14.10	0.00174	0.000088
0.056	21.80	0.0647	C.744	-4.50	49.4	13.10	0.000149	0.124	20.89	0.0651	0.775	- 6. 24	93.5	14.60	0.00168	0.000077
7. 066	22.42	0.0762	3.765	-4.14	58.1	13.47	0.000125	0.154	21.76	0.1057	0.807	- 3.63	116.1	15.21	0.00158	0.000069
0.080	23.13	0.0922	0.789	- 3.71	70.4	13.90	0.000108	0.184	22.48	0.1263	0.834	-3.1.	116.7	15.71	J.00145	0.000063
0.095	23.77	0.1095	c.a11	- 3. 32	A3.6	14.28	0.000096	0.224	23.42	A.1537	0.869	-2.47	168.9	16.37	0.00125	0.000056
9.115	24.60	0.1324	0.840	-2.82	101.1	14.78	0.000085	3.274	24.42	0.1880	3.906	-1.77	206.0	17.07	0.00098	0.000047
0.140	25.51	0.1612	6.871	-2.29	123.0	15.33	0.000075	0.324	25.32	0.2224	0.939	-1.14	244.2	17.70	0.00072	0.000036
0.170	26.49	0.1956	0,904	-1.65	149.3	15.92	0.000062	0.374	26.10	0.2567	0.968	-0.60	281.9	18.24	0.00053	0.000026
7.210	27.61	0.2416	0.942	-1.01	184.4	10.59	0. 100046	0.424	26.54	0.2910	0.785	-0.29	319.6	18.55	0.00037	0.000016
0.250	28.46	0.2475	0,971	-0.51	219.5	17.10	0.000031	0.409	26.39	0.3425	0.998	-0.04	370.2	18.80	0.00019	0.000009
0.240	28.97	0.3335	3.989	-0.20	254.6	17.40	0.000019	3.574	26.96	0.3939	1.000	0.00	432.7	18.84	0.00007	0.000002
0.330	29.20	0.3794	0.997	-0.06	289.7	17.55	0.000011	0.649	26.97	0.4454	1.001	0.01	489.2	18.85	0.00000	-0.000103
0.375	29.31	0.4311	1.000	0.00	329.1	17.61	0.000005	7.724	26.95	0.4969	1.000	0.00	545.8	18.84	0.00000	0.000000
0.425	29.31	0.4885	1.000	0.01	373.0	17.61	0.000001									
0,475	29.32	0.5460	1.001	0.01	416.8	17.61	-0.000002									
7.550	29.30	0.6321	1.000	0.00	492.6	17.60	0.000000									

RUN: 121671-3 X=22. Z+ 0.	RUN: 121671-3 X=34. Z+ 0.
	UI = 23.21 D1 = 0.1462 BETA= 0.230 RD2 = 1285.
01 • 2•.58 DI = 0.1203 BEIR• 0.270 RD2 = 1070.	CF/2= 0.00256 D2 = 0.1051 B =-0.780 H = 1.410
	F = -0.00200 DC = 2.9267 P+ = 0.003 G = 5.743
	$K = -C_{2}325E-06$ D99 = 0.8755 V0+ =-0.039
K = -0.437E-06 DF4 = 0.6163 F04 =-0.034	
Y U Y/DC U/UI (U+UI)/U* Y+ U+ TAU TAULAM	Y U Y/OC U/UI (U−UI)/U+ Y+ U+ (AU TAULAH
	0,006 3,93 0,0019 0.169 -16,40 3,5 3,35 4,00724 0.007035
0.005 3.78 0.0021 0.134 -18.46 3.3 3.00 0.00236 0.001857	0.007 4.31 0.0023 0.166 -16.08 4.1 3.67 0.00221 0.001930
a. 006 4.10 0.0026 0.167 -18.23 4.0 3.25 0.00234 0.661730	0.008 4.70 0.0026 0.203 -15.75 4.7 4.00 0.00718 0.001825
0.007 4.53 0.0030 9.184 -15.89 4.7 3.59 0.00231 0.001604	3.009 5.29 0.0029 0.228 =15.25 5.3 4 50 0.00284 0.001770
0.008 4.95 0.0034 0.201 -15.55 5.3 3.97 0.00229 0.001537	
0.009 5.42 0.0038 0.220 -15.19 6.0 4.29 0.00225 0.001636	0.010 July 0.0015 0.240 -14.65 5.4 4.66 0.0017/6
0.011 6.48 0.0047 0.244 -14.34 7.3 5.14 0.00218 0.001501	0.012 6.77 0.0040 0.291 -13.99 7.2 5.76 0.00202 0.001703
	0.014 7.70 0.0046 0.332 -13.20 8.4 6.55 0.00295 0.001531
	0.016 8.60 0.0053 0.370 -12.44 9.7 7.31 0.00166 0.001365
0.016 0.0000 3.336 -12.35 10.6 7.12 0.00200 0.001302	0.018 9.41 0.0040 0.405 -11.75 10.9 8.00 0.00181 0.001219
0.019 10.110081 0.411 -11.47 12.6 8.01 0.00193 0.001097	0.021 10.32 0.0070 0.445 -10.37 12.8 8.78 0.00174 0.000999
0.022 11.15 0.0094 0.453 -10.65 14.6 8.83 0.00185 0.00020	
0.075 12.06 0.0107 0.491 -9.92 14.6 9.56 0.00179 0.000764	0.024 11.07 0.0081 0.477 -10.33 14.6 9.42 0.00469 0.000808
	0.028 12.01 0.0094 0.516 -9.53 17.1 10.22 0.00162 0.000616
	0.032 12.57 0.0109 0.541 -9.06 19.6 10.69 0.00158 0.000499
	0.036 13.02 0.0122 0.561 -8.67 22.0 11.08 0.00155 0.00402
0.055 13.81 0.0149 0.582 -8.54 23.3 10.94 0.00167 0.00408	1.042 13.57 0.0142 0.585 -8.20 25.8 11.55 0.00152 0.000294
C.540 [4.37 0.0171 0.535 -5.64 26.6 11.34 0.00186 0.006324	
0 047 15 01 0 0201 0 411 -7 50 31 7 11 80 0 00143 0 000241	0.050 14.29 0.0169 0.615 -7.59 30.7 12.16 0.00148 0.000225
	0.060 14.73 0.0204 3.635 -7.22 36.9 12.53 0.00146 0.000168
	0.074 15.20 0.0251 0.655 -6.82 45.6 12.93 0.00145 0.00121
	0.089 15.75 0.0303 0.079 -0.35 54.9 13.40 0.00143 0.000090
0.041 16.59 0.0348 0.675 -8.33 53.8 13.14 0.00131 0.000104	9.109 16.15 9.0371 9.696 -6.01 67.2 13.74 9.00443 0.000072
0.101 [7.15 0.043] 0.878 -5.89 67.1 13.54 0.00156 0.000084	
0.126 17.73 0.0538 0.721 -5.43 83.8 14.05 0.00155 0.000067	n.129 16.51 3.0439 0.711 -5.70 79.6 14.05 0.00143 0.00061
0.156 18.33 0.0666 0.760 -4.95 103.7 14.53 0.00153 0.000059	0.159 16.88 0.0542 0.727 -5.39 38.2 14.36 0.00143 0.000051
0.156 18.92 0.0837 0.770 -6.69 130.3 14.99 0.00148 0.000052	0.199 17.43 0.0679 0.751 -4.92 123.0 14.83 0.00143 0.000045
	5.254 18.39 0.CA67 0.779 -4.36 157.0 15.39 0.00141 0.000041
	0.319 18.92 0.1089 0.411 -3.73 197.3 16.02 0.00135 0.00038
01301 20144 011583 01834 -3154 50011 18154 0100154 01000044	
0.366 21.37 0.1562 0.870 -2.54 243.3 16.94 0.00107 0.000060	0.394 19.53 0.1345 0.841 -3.14 243.7 16.61 D.00126 0.00034
0.431 22.23 0.1840 0.904 -1.86 286-5 17.62 C.00085 0.000035	0.469 20.25 0.1601 0.072 -2.52 290.2 17.23 0.00112 0.000032
	0.544 20.92 0.1857 0.901 -1.95 336.6 17.80 0.00096 0.000029
	0.619 21,52 0.2114 5.927 -1.44 303.1 10.3J 0.00877 0.000025
0 1501 15170 012400 0,100 -0,03 3013 18,83 0,00043 0,000000	0.694 22.09 0.2370 0.952 -0.95 429.5 18.80 0.00058 0.000021
0.000 24.20 0.2000 0.4900 -0.24 430.1 14.24 0.00013	
0.756 24.54 0.3227 0.998 -0.03 502.6 19.45 0.00011 0.000006	0.794 22.68 0.2712 0.977 -0.46 491.4 19.29 0.00036 0.000014
0.856 24.61 0.3654 1.001 0.03 369.1 19.50 0.00000 3.000001	1.894 23.05 0.3053 0.443 -0.14 553.4 19.61 0.00C20 0.000009
0.956 24.58 0.4081 1.000 0.00 535.6 19.48 0.00000 0.000000	0.994 23.20 0.3395 0.999 -0.01 615.3 L9.74 0.00008 0.000004
	1.094 73.22 0.3737 1.000 0.01 677.2 19.76 0.00800 0.000000
	1.194 23.21 0.4078 1.600 0.00 739.1 19.75 0.00000 0.000000

PUN: 1	21671-3	X=46		n.					PTIN :	121671-	3 X=58	. Z=	o.				
UT = CF/2=	22.11	in Io	01 • 1 02 • 3	0.1785	8 E T 4 8 8	- 0.210 0.795	R D Z H G	<pre>= 1482. = 1.403 = 5.740</pre>	U1 CF/2 F	= 21.55 = 0.002 = -0.001	45	01 - 02 - 00 -	0.1487 0.1444 4.0031	0ET4 8 P+	= 0.192 =-0.898 = 0.002	RD2 H G	<pre>1642. 1.374 5.492</pre>
κ.	-C. 25 3E	-06	099 -	1.0702	V0+	0.040			*	= -0.210	E-06	099 .	1.2496	¥0+	0.040		
¥	U	¥/DC	J/UT	10-011/0	• ••	U+	U AT	TAULAN	Y	U	¥700	J701	{0-01}/0	¥+	U+	TAU	TAULAM
0.005	3,19	0.0014	2.144	-17.11	2.9	2.88	0.00223	0.001744	0.00	5 3.11	0.0012	0-144	-17.24	2.8	2,91	0.00719	0.001940
0.006	3.26	0.0017	2.148	-17.04	3.5	2.95	0.00222	0.001576	0.00	6 3.30	0.0015	0.153	-17.06	3.4	3.09	0.00217	0.001798
0.007	3.51	0.0020	0.159	-16.81	4.1	3.18	0.00220	0.001408	0.00	7 3.62	0.0017	0.16P	-16.77	3.9	3.39	0.00214	0.001655
0.00A	3.94	0.0022	0.174	-10.52	4.7	3.47	0.00218	0.001262	0.00	8 4.04	0.0020	0.188	-16.37	4.5	3.78	0.00211	0.001472
0.009	4.21	0.0025	0.190	-16.19	5.2	3.60	0.00215	0.101456	0.01	0 4.72	0.0025	0.219	-15.74	5,6	4.41	0,00205	0.001548
0.011	4.91	0.0031	0.222	-15.55	6.4	4.44	0.00209	0,001531	9.01	2 5.42	r.0030	0.252	-15.08	6.8	5.07	0.00199	0.001641
5,013	5.67	0.0036	0.256	-14.87	7.6	5.12	0.00203	0.001526	0.01	4 6.22	0.0035	5.249	-14.33	7.9	5,82	0.00192	0.001536
0.015	6.59	0.0042	0.298	-14.03	8.7	5.96	0.00195	0,001522	0.01	6 7.14	0.0040	0.332	-13.47	9.0	6.68	0.00184	0.001409
0.017	7.36	0.0048	0.333	-13,33	9,9	6.66	0.00188	0.001437	0.01	8 7.91	0.0045	0.367	-12.75	10.1	7.40	0.00177	0.001214
0.019	8.79	0.0053	0.366	-12.68	11.1	7.31	0.00182	0.001345	0.02	0 8,36	0.0050	0.348	-12.34	11.3	7.81	0.001/3	0.001125
0 022	0 14	0.0067	0.414	=11.71	12.8	8.28	0.00171	0.001158	0.02	2 8.80	0.0055	0.408	-11.92	12.4	8.23	0.00170	0.001013
0.076	0 03	0.0070	0.449	-11-01	16.6	8.98	0-00167	0.000949	0.02	4 9.16	0.0060	3.425	-11.59	13.5	8.56	0.00167	0.000938
0.028	10.70	0.0078	0.484	-10.32	16.3	9.67	0.00161	0.000780	3.02	7 10.09	0.0067	0,408	-10,72	15.2	9.43	0.00159	0.000862
0.031	11.32	0.0057	0.512	- 9. 76	18.1	10.23	0.00156	0.000645	0.03	1 10.83	0.0077	0,503	-10.02	17.5	10.13	0.00153	0.000725
0.035	11.71	0.0098	0.530	- 9.40	20.4	10.59	0.00153	0.000511	0.03	5 11.51	0.0087	0.534	-9.39	19.7	10.76	0.00147	0+000595
0.041	12.43	0.0115	0.562	- 8.75	23.9	11.24	0.00148	0.000368	7.04	0 12.13	0.0100	0.563	-0.01	22.5	11.34	0.00142	0.000447
0.049	13.09	0.0137	0.592	-8.16	28.6	11.03	0.00143	0.000269	0.04	6 12.67	0.0115	3,548	- 5,30	25.9	11.85	0.00138	0.000340
0.059	13.63	0.0165	0.617	-7.67	34.4	12.33	0.00140	0.000200	0.05	6 13.34	0.0140	0.019	-7.64	31.6	12.47	0.00134	0.000225
0,072	14.15	0.0202	0.640	-7.20	42.0	12.79	0.00138	0.000142	0.06	R 13.86	0.0170	0.643	-7.19	39.3	12.96	0.00131	0.000156
0.087	14.71	0.0244	9.665	-6.59	50.7	13.30	0.00135	0.00106	4.08	3 14.23	0.0207	3.6.50	- 6, 84	46.0	13.31	0.00129	0.000111
0.107	15.03	0.0300	0.680	-6.40	62.4	13.59	0.00135	0.000080	0.10	8 14.74	0.0270	0,684	-6,36	60.8	13,79	0.00128	0+000075
0.132	15.53	0.0370	0.702	-5.95	76.9	14.04	0.00134	0+000061	0.14	8 15.36	0.0376	0.713	- 5. 79	83.4	14.36	0.00127	0.000053
0.167	15.95	7.0468	0.721	-5.57	97.3	14.42	0.00135	0.000048	3.20	R 15.97	0.0520	0.741	-5.21	117.2	14.94	0.00128	0.000039
0.217	16.45	0.0594	6.744	-5.12	123.6	14.08	0.00135	0.000041	0,28	3 16.56	0.0707	3.769	-4.66	159.4	15.49	0.00124	0.001032
r.277	17.02	0.0776	0.770	-4.60	151.4	15.39	0.00135	0.00036	3.35	8 17.03	0.0894	0.790	-4.22	201.7	15.93	0.00124	0.000054
0.352	17.63	0.0987	0.797	-4.05	205.2	15.94	0.00132	0.000033	0.45	9 17.72	0.1144	C.423	-3.58	258.0	16.57	0.00125	0.00026
0.427	18.28	0.1197	0.927	- 3. 47	248.9	16.53	0.00127	0.00030	0.55	8 14.33	0.1394	5.851	-3.01	314.4	17.14	0.00118	0.000024
0.502	18.45	0.1407	0.852	-2.96	292.6	17.04	0.00119	0.00028	0.65	8 14.48	0.1644	0.876	-2.49	370.7	17.60	0.00107	0.000022
0.577	19.39	0.1617	0.377	-2.40	336,3	17.53	0.00108	0.00027	0.75	8 19.47	0.1494	0.903	-1.95	427.1	18.21	0.00093	0.000020
0.677	20.00	0.1876	0.905	-1.91	394.6	14.08	0.00091	0.000024	0.85	8 19.92	0.2143	0.925	-1.52	483.4	14.03	0.00077	0.000016
0.777	20.61	0.2178	0.932	-1.36	452.9	18.64	0.00071	0.000021	0.95	8 20.38	0.2393	0.946	-1.09	539.7	19.06	0.00059	0.00015
0. 477	21.21	0.2458	0.959	-0.92	511.1	19.17	0.00052	0,000016	1.10	8 20.96	0.2768	0.973	-0.55	624.2	19.60	0.00035	0.000011
0.977	21.63	0.2739	0.978	-0.43	569.4	19.50	0.00034	0.000012	1.25	9 21.35	0.3143	0.991	-0.18	708.8	19.97	0.00016	0.00007
1.077	21.91	0.3019	0.991	-0.18	627.7	19.81	0.00019	0.00008	1.40	B 21.53	0.3517	0.999	-0.01	793.3	20+14	0.00005	0.000003
1.202	\$5.04	0.3369	0.799	-0.02	700.6	19.97	0.00000	0.00004	1.55	8 21.55	0.3892	1.000	0.00	877.8	20.15	u.00080	0.00001
1.352	22.13	0.3790	1.001	0.01	788.0	20.00	0.00000	0.000006	1.70	8 21.55	0.4267	1.000	0.00	902.3	20.15	0.00000	0.000000
1.502	22.11	0.4210	1.000	0.00	875.4	19.99	0.00000	0.000000									

Y	U	Y/00	0701	10-01370	• Y+	U+	TAU	T SUL AM	۲	U	¥700	a701	(0-01370	• •	U+	TAU	TAULAM
0.005 0.006 0.007 0.009 0.011	3.02 3.25 3.57 4.21 4.95	0.0011 0.0013 0.0016 0.0020 0.0024	0.144 0.155 0.171 0.201 0.236	+17.40 -17.18 -16.86 +16.24 -15.53	2.7 3.3 3.8 4.9 6.0	2.93 3.15 3.47 4.09 4.80	0.00215 C.00213 C.0C210 D.0C204 C.0C198	0.002015 0.001889 0.001764 0.001559 0.001559	0.005 0.006 0.007 0.007 0.008	2.79 2.79 3.04 3.19 3.82	0.0010 0.0012 0.0014 0.0016 0.0020	0.136 0.136 0.148 0.156 0.156	-17.64 -17.64 -17.40 -17.24 -16.01	2.6 3.2 3.7 4.2 5.3	2.78 2.78 3.02 3.18 3.81	0.00214 0.00214 0.00212 0.00210 0.00205	0.001732 0.001576 0.001420 0.001194 0.001431
0.013 0.015 0.017 0.017 0.019 0.022	5.69 6.48 7.03 7.59 8.49	D.0029 0.0033 0.0038 0.0042 0.0042	0.272 0.309 0.335 0.367 0.495	-14.81 -14.05 -13.51 -12.97 -12.11	7.1 8.1 9.2 10.3 11.9	5.53 6.29 6.82 7.36 8.23	0.00191 0.00184 0.00174 0.00174 0.00166	0.001462 0.001402 0.001338 0.001265 0.001099	0.012 0.014 0.017 0.020 0.023	4.47 5.17 6.17 7.04 8.07	0.0024 0.0028 0.0034 0.0040 0.0040	0.215 0.252 0.301 0.343 0.394	-16.03 -15.27 -14.27 -13.41 -12.38	6.3 7.4 9.0 10.6 12.2	4.39 5.15 6.15 7.01 8.04	0.00199 0.00192 0.00183 0.00175 0.00166	0.001482 0.001517 0.001444 0.001323 0.001153
0.025 0.028 0.032 0.036 7.041	9.28 10.00 10.54 11.09 11.62	0.0055 0.0062 0.0071 0.0080 0.0080	0.443 0.477 0.503 0.529 1.554	-11.33 +10.63 -10.10 -9.57 -9.06	13.6 15.2 17.4 19.5 22.3	9.00 9.70 13.23 10.76 11.27	0.0C159 0.0C153 0.CE248 0.0E144 0.0E144	0.000955 0.000810 0.000641 0.000515 0.000409	n.026 D.028 N.032 D.037 P.043	8,81 9,24 9,90 10,66 11,30	C.CO52 O.PC56 O.PC64 P.PC74 P.PC86	0.429 0.451 0.483 0.520 0.551	-11.65 -11.22 -10.56 -9.81 +9.17	13.8 14.5 16.9 17.6 22.7	8.77 9.20 9.86 10.61 11.25	0.00159 0.00155 0.00150 0.00143 0.00138	0.001004 0.000918 0.000735 0.000578 0.000578
0.047 0.054 9.062 0.072 0.084	12.11 12.60 13.03 13.33 13.73	C.0104 0.0120 C.C138 B.016C 0.0186	0.578 0.601 0.622 0.636 0.655	-8.59 -8.10 -7.69 -7.40 -7.01	25.5 29.3 33.7 39.1 45.6	11.75 12.23 12.64 12.93 13.33	0.00135 0.00131 0.00128 0.00128 0.00124	0.000325 0.000252 0.000197 0.000152 0.000152	0.051 0.063 0.083 0.112 0.148	12.17 12.58 13.34 13.82 14.28	0.0101 0.0125 0.0165 0.0225 0.02°4	0.594 C.613 0.65P 0.674 0.697	-8.30 -7.90 -7.14 -6.66 -6.20	27.0 33.3 43.9 59.8 78.3	12.12 12.52 13.28 13.76 14.23	0.00130 0.00127 0.00121 0.00118 0.00118	0.000323 0.000210 0.000126 0.000076 0.000076
0.099 0.11 0.1*4 0.209 0.279	14.08 14.45 14.93 15.50 15.88	0.0220 0.0264 0.0342 0.0464 0.0419	0.672 0.690 0.708 0.740 0.758	-6.67 -8.31 -5.94 -5.29 -4.92	53.8 64.6 83.6 113.5 151.5	13.66 14.02 14.39 15.04 15.41	0.06122 0.06120 0.06119 0.06117 0.06116	0.000090 0.000072 0.000051 0.000038 0.000038	0.223 0.298 0.373 0.448 0.548	15.00 15.52 15.96 16.37 16.78	0.0444 0.0593 0.0742 0.0891 9.1090	C.731 0.757 0.779 0.798 C.91P	-5.49 -4.97 -4.52 -4.12 -3.71	118.0 157.6 197.3 237.0 289.9	14.94 15.45 15.90 16.30 16.71	0.00115 0.00113 0.00112 0.00109 0.00107	0.000037 0.000029 0.000025 0.000023 0.000021
0.354 0.429 0.504 0.604 0.704	16.37 16.83 17.17 17.67 19.10	0.0786 0.0952 0.1118 0.1340 0.1562	0.701 0.903 7.819 6.843 0.868	-4.44 -4.00 -3.67 -3.18 +2.69	192.2 233.0 273.7 328.0 382.3	15.89 16.33 16.66 17.15 17.64	C.OC115 0.00114 0.00112 0.00106 C.OC096	0.000026 0.000023 0.000022 0.000022	0.648 0.773 0.898 1.023 1.148	17.25 17.82 18.27 18.74 19.19	0.1289 0.1538 0.1787 0.2035 0.2284	0.841 0.869 0.991 0.914 C.936	- 3, 24 - 2, 68 - 2, 22 - 1, 75 - 1, 31	342.8 408.9 475.1 541.2 607.3	17.18 17.75 18.20 18.67 19.11	0.00104 0.00098 0.00088 0.00077 0.00063	0.00020 0.000018 0.000017 0.000015 0.000014
0.804 0.904 1.054 1.204 1.354	18.62 19.10 19.71 20.23 20.61	0.1784 0.2006 0.2339 0.2672 0.3004	0.889 0.911 0.941 0.965 0.984	-2.26 -1.80 -1.20 -0.71 -9.33	430.0 490.9 572.4 653.8 735.3	18.07 18.53 19.13 19.62 20.00	C.08089 C.06078 C.06659 C.06459 C.06440 C.06022	0.001019 0.000018 0.000015 0.000011 7.000008	1.298 1.498 1.698 1.898 7.098	19.61 20.15 20.43 20.53 20.54	0.25R2 0.2980 0.3378 0.3776 0.4174	0.956 0.953 0.955 1.001 1.002	-0.90 -0.36 -0.08 0.02 0.03	686.7 792.5 899.3 1004.1 1109.9	19.53 20.07 20.35 20.44 20.45	0.00047 0.00027 0.00011 0.00003 0.00000	0.000011 0.000007 0.000004 0.000002 -0.000000
1.554 1.754 1.954 2.704	20.91 20.98 20.99 20.95	0.3448 0.3892 0.4336 0.4891	0.998 1.001 1.002 1.000	-0.04 6.03 0.04 0.06	843.9 952.5 1061.1 1176.9	20.29 20.36 20.37 20.33	C.CC007 C.OC401 C.CC400 C.CC400	0.000104 0.000001 -0.000001 1.000000	2.298	20.50	0,4572	1.000	0.00	1215.7	20.42	0.0000	0.000000
RUN: 1 111 - CF/2=	21671-3 20,21 0,0023	X=9C.	Z = 0 P1 = 0 D2 = 0	.2609	BETA B	= 0.194 =-0.837	RD2 H	= 2065. = 1.346	PUN: 1 U1 * CF/2*	22971-1 29.20 0.0732	L X- 2.	D1). 	8E T/ 8	A= 3.134 =-5.623	н RD2 8 H 9 G	* 506. = 1.498 = 5.880
RIJN: 1 111 + F = K -	21671-3 20.21 0.0023 +C.C019 -C.166E	X=9€. 9 -06	Z = 0 D1 = 0 D2 = 0 DC = 5 D99 = 1	- . 2609 . 1939 - 3506 . 7362	BETA B P+ VC+	= 0.194 =-0.837 = 0.001 =-0.041	R D2 H G	= 2065. = 1.346 = 5.268	PUN: 1 U1 * CF/2= F * K =	22971-1 29.20 0.0033 -0.3014 -7.44J1	L X- 2. 20 39 5-16	D1 = 02 = 0 DC = 0 D99 = 0	n. n. 1493 n. 1329 n. 8720 2. 2958	BE T/ B P+ V∂+	A= 7.17 =-9.62 = 9.00 =-7.03	• PD2 3 H 2 G 5	? = 504. = 1.498 = 5.88)
PUN: 1 UI - CF/2= F - K - V 0.007 0.010 0.012 0.012	21671-3 20,21 0.0023 +0.0019 -0.166E U 3.43 3.61 4.40 5.26	x=90. x=90. y/DC 0.0013 0.0013 0.0014 0.0022 0.0022	Z = 0 02 = 0 02 = 5 099 = 1 U/UI 0.170 0.179 0.218 0.200	- - 2609 - 1939 - 3506 - 7362 - 10-0111/0 - 17.02 - 16.84 - 15.17 - 15.17	BETA B P+ VC+ * Y+ 3,5 4,1 5,1 6,1	- 0.194 C.837 0.001 0.041 U+ 3.48 3.67 4.46 5.34	я D2 Н G	= 2065. = 1.346 = 5.26P TAHLAM D. 001988 - 001988 - 001755 - 001762	PUN: 1 UI = E = K = Y).334 C.COS V.QC7 NOC7	22971-1 29.20 0.0033 -0.001 -0.001 -0.401 U 5.93 6.63 7.62 8.78	L X= 2; 20 29 5-06 7/DC 0-0761 0-0764 0-07684	2- : D1 - : D2 - : D0 - : D99 - : U/UI (.201 (.227 (.261 J.311 (.331		BET/ B P+ V0+ 1* Y+ 3,7 5,5 5,5 5,5 7,7	A= 7,174 = 7,623 = 7,073 = 7,673 U+ 3,59 4,72 4,62 5,32	а RD2 3 H 2 G 5	 SU6. 1.498 5.88J TAULA4 0.002513 0.00254.7 0.00226.7 0.002214
PUN: 1 UI = CF/2 = K = V 0.004 0.010 0.012 0.014 0.016 0.012 0.014 0.022 0.022	21671-3 20.21 0.0023 -C.C019 -C.166E U 3.43 3.61 4.40 5.26 5.36 6.39 7.16 7.67 8.17 8.17	x=9C. x=9C. y/DC 0.0013 0.0013 0.0013 0.0022 0.0025 0.0030 0.0030 0.0031 0.0031 0.0031 0.0030 0.0030 0.0031 0.0030 0.0041 0.00500 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0	Z = 0 02 = 0 02 = 0 02 = 5 099 = 1 0.170 0.218 0.290 0.316 0.359 0.316 0.359 0.404 0.411	- - - - - - - - - - - - - -	BETA B P+ VC+ * Y+ 3.5 4.1 5.1 6.1 7.2 8.2 9.2 10.3 11.3 12.4	- 0.104 0.837 0.041 0	R DZ M G	= 2065, = 1.346 = 5.26P TAHLAP 0.0019498 0.001725 0.001510 0.001510 0.001513 0.001049 0.001049	PUN: 1 UI = CF/2 = K V V 0.334 S 0.055 S 0.056 S 0.056 S 0.056 S 0.056 S 0.057 S 0.011 D 0.011 S 0.011 S 0.015 S 0.055 S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22971-1 29.20 0.0033 -0.5014 -7.4401 U 5.93 6.63 7.63 7.63 7.63 7.63 7.63 7.63 7.6	1 X= 2 10 10 10 10 10 10 10 10 10 10	Z-: D1 - D2 - D2 - D02 - D03 - D04 -	A. A.9493 A.929 A.9720 J.2958 (U-UI)/U -14.)9 -13. 57 -13. 57 -13. 57 -13. 57 -13. 54 -13. 54 -1	BET# B P+ V0+ 3.765 5.633 7.2 8.9 9.8 11.5 13.5 13.5	A= 7, 17, =-0,62 =-7, 03; U+ 3,59 4,62 5,98 6,64 7,15 7,15 8,49 9,25	ь я02 3 Н 2 G 5	? = \$46 = 1.498 = 5.883 TAULA4 0, 0.02631 0, 0.02519 0, 0.02214 0, 0.02214 0, 0.02214 0, 0.02214 0, 0.02188 0, 0.01888 0, 0.01813
PUN: 1 III = CF/2= F * V 0.008 0.010 0.010 0.010 0.012 0.022 0.030 0.037 0.031	21671-3 27,21 0.0023 -C.C019 -C.166E U 3.43 3.61 4.40 5.26 5.26 5.26 6.39 7.14 7.14 7.14 7.14 7.14 7.14 7.19 9.79 10.13 10.65	x=9C. x-9C x/UC 0.0013 0.0014 0.0022 0.0022 0.0025 0.0041 0.0056 0.0056 0.0056 0.0056 0.0056 0.0056	Z = 0 D2 = 5 D2 = 5 D9 9 = 1 U/UI 0.179 0.218 0.2178 0.218 0.218 0.3153 0.316 0.3530 0.4611 0.455 0.4644 0.45520 0.5500	1. 2409 1.1399 1.3506 1.3506 1.37362 1.37362 1.37362 1.3736 1.376 1.376 1.376 1.376 1.376 1.376 1.377 1.273 1.273 1.273 1.273 1.273 1.273 1.273 1.273 1.273 1.273 1.273 1.275 1.27	BETA B P+ VC+ * Y+ 3.5 5.1 5.1 5.1 7.2 8.2 9.2 10.3 11.3 12.4 13.9 15.5 17.0 19.1 22.2	- 0.104 C.837 - C.001 0.041 U+ 3.48 3.65 - 3.4 5.36 5.34 5.34 5.34 5.36 5.34 5.36	R D2 H G	- 2065. - 1.346 - 5.26P TAHLAP 0.0019498 0.001725 0.001510 0.001510 0.001040 0.0010510 0.00090 0.000910 0.000505 0.000505	PUN: 1 UI = EF Z= F X V V-3345 C-006 C-002 C-002 C-002 C-002 C-002 C-002 C-002 C-002 C-002 C-002 C-002 C-002 C-02 C-	22971-1 29.20 0.0333.01 -0.0301 -0.001 -0.001 -0.4401 U 5.93 7.62 8.762 8.762 8.762 8.762 8.762 8.762 10.951 12.56 14.72 15.84 15.84 15.84 15.87 15.84 15.47	x - 2. 	Z- D1 - D2 - D2 - D4	0. 	BE TJ P+ V0 + 3.765532 7.5782 9.8557 11352 157.62 157.62 276.2	A= 3,12, =-3,62,= =-3,00,= =-3,03,= U+ 3,59 4,62 5,32 4,62 5,32 4,62 5,32 5,98 6,64 7,15 8,42 9,59 1,0,24 10,47 11,165	а, яр 3 м 2 G 5	7 = 544. = 1.499 TAULAY 0,022831 0,022831 0,022831 0,02284 0,02284 0,02284 0,02284 0,02284 0,02184 0,02184 0,00183 0,00084 0,00087 0,00087 0,00087
PUN: 1 UII = CF/2= F = V 0.004 0.012 0.016 0.012 0.016 0.027 0.020 0.022 0.022 0.027 0.037 0.063 0.060 0.073 0.060 0.060 0.073 0.060 0.073 0.060 0.073 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.060 0.075 0.075 0.060 0.075 0.060 0.075 0.075 0.060 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075 0.065 0.075	21671-3 77,21 0.0023 7.0023 0.0023 0.005 0.00	x-9C. x-9C. x-9C. x/DC 0.0013 0.0015 0.0014 0.0022 0.0025 0.0035 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0012 0.0012 0.0015 0.0015 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0015 0.0055 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0055 0.0015 0.0015 0.0055 0.0015 0.0	2 - n p1 - c 02 - c 02 - c 02 - c 03 - c 04 - c	1.2409 .1930 .3506 .7362 10-011/0 -17.02 -16.04 -1.4.03 -14.56 -12.73 -13.26 -12.73 -13.26 -12.73 -10.77 -0.77 -0.77 -0.77 -0.77 -0.77 -0.77 -0.77 -0.77 -7.20 -7.	BETA 8 P+ VC+ VC+ VC+ VC+ VC+ VC+ VC+ VC	- 0.104 - 0.837 - 0.041 - 0	я р.2 н G	- 2065. - 1.346 - 5.26P TANLAM 1.001970 1.001725 1.001510 0.001406 0.001260 0.001406 0.00109 0.000505 0.000505 0.000505 0.000105 0.000125 0.00123 0.00123	PUN: 1 UI CF/2: K J305 C:0007 D:0107	22971-1 24,20 0,0732 -7,4401 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x - 2. y / 0C 5. (649 y / 0C 5. (649 y / 0C x - (14) y - (15) x - (14) y - (15) x - (14) y - (15) y - (1	2*** D1 ** D2 ** D2 ** D2 ** D3 ** J/UI (*,277 **,337 **,537		BE TJ B P V V V V V V V V V V V V V	A= ', 1', 1', 2', 5', 6', 6', 2', 5', 6', 6', 7', 15', 7', 6', 7', 15', 7', 6', 7', 15', 7', 6', 7', 15', 7', 6', 7', 15', 7', 6', 7', 15', 1', 1', 1', 1', 1', 1', 1', 1', 1', 1	ы ярд 3 н 2 G 5	2 = 544. = 1.498 = 1.498 TAULA4 0.002831 0.502219 0.502214 0.502214 0.502214 0.502244 0.502244 0.502246 0.5021433 0.501172 0.500475 0.500475 0.500247
PUN: 1 UI = CF/2= F = Y 0.007 0.012 0.012 0.012 0.020 0.027 0.020 0.027 0.212 0.2	21671-3 27,21 0.0722 0.156 0 0 3.41 3.41 3.61 10.55 3.61 10.65 11.32 11.32 11.66 12.20 13.59 14.12 14.62 15.14 15.1	x-9C. x-9C. x-9C. x/DC 0.0013 0.0014 0.0026 0.0030 0.0030 0.0030 0.0030 0.0050 0.0050 0.0051 0.0055 0.0051 0.0055 0.0051 0.0055 0.0051 0.0055 0.0051 0.0055 0.0	Z - n N1 - c 02 - c 509 - 1 U/UI 6.170 0 .2180 0.3163 0.379 0.404 0.411 0.455 0.494 0.411 0.455 0.494 0.414 0.527 0.554 0.574 0.557 0.574 0.575 0.574 0.575 0.574 0.575 0.5	1. 2409 1. 2409 1. 1939 . 3506 . 7362 10-011/0 -17. 02 -16. 84 -14. 58 -14. 58 -14. 58 -12. 73 -13. 26 -12. 73 -13. 26 -12. 73 -12. 73 -12. 73 -12. 73 -12. 73 -12. 73 -12. 73 -1. 18 -1. 27 -1. 18 -1. 27 -1. 27 -1. 28 -1. 28 -	BETA B P+ VC+ * Y+ 3.5 5.1 5.1 7.2 8.2 10.3 11.3 11.3 11.3 11.3 11.3 11.3 11.3	- 0.194 0.837 0.041 	R D Z H G	- 2065. - 1.346 - 5.26P TANLAM 0.001725 0.001406 0.001406 0.001406 0.001406 0.001406 0.00153 0.00169 0.00153 0.00054 0.000515 0.000153 0.000153 0.000153 0.000153 0.000153 0.000123 0.000	PUN: 1 UI = CF/2 = F K = 9 3045 6 0 0007 - 0 000	22971-1 29,20 0,373: -7,4401 U 5,43 37,622 8,78 9,87 7,622 8,78 9,87 12,56 8,78 9,87 12,56 4,402 12,57 76 22,57 76 22,77 23,70 24,609	x - 2. y/OC x/OC x/OC x/OC x/OC x/OC x-C64 y/OC x-C64 x-1095 x-1107 x-118 x-1330 x-2392	24		BE F1 B P + V + 1, 7 7 4, 6, 6 4, 7 4, 6 6, 3 11, 5 11, 5 27, 8 26, 2 27, 8 27,	4- 3, 17,	а RD2 3 H Z 2 G 5	Z = 544. = 1.498 = 1.498 = 5.883/ TAULA4 0.002519 (0.002519 0.002524 0.002524 0.002524 0.001952 0.001952 0.001952 0.000375 0.000355 0.00055 0.00055 0.000555 0.000555 0.000555 0.000555 0.000555 0.000555 0.000555 0
P'IN: 1 I'II = CF/2: F = V C.(07 0.018 0.027 0.018 0.027 0.038 0.038 0.037 0.038 0.037 0.038 0.037 0.038 0.037 0.038 0.038 0.036 0.037 0.037 0.038 0.036 0.037 0.036 0.037 0.036 0.037	21671-3 77,21 0.0722 10.0723 3.61 4.40 5.26 6.39 7.15 8.31 10.45 8.17 10.45 11.32 11.42 11.51 11.51 11.51 11.51 12.63 11.51 14.62 15.14 17.14 15.14 17.14 15.14 17.14 15.14 17	x-9C. x-9C. x-9C. x/DC 0.0013 0.0015 0.0012 0.0030 0.0050 0.0030 0.00500 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.0050 0.	Z • 0 D1 • 0 D2 • 0 D2 • 0 D3 • 0		BETA B P+ VC+ VC+ VC+ VC+ S-2 S-2 S-2 S-2 S-2 S-2 S-2 S-2	- 0.104 - 0.83 - 0.83 - 0.001 - 0.0	R D2 H G	- 2065. - 1.346 - 5.267 TA'ILAP 0.001205 0.001205 0.001205 0.001205 0.001205 0.001205 0.001205 0.001205 0.000505 0.000373 0.000241 0.000373 0.000373 0.000373 0.000375 0.000375 0.00037 0.000	PUN: 1 CF/2: K K - Y 34565000 COLOR 000000 COLOR 0000000 COLOR 0000000 COLOR 00000000 COLOR 00000000 COLOR 00000000 COLOR 000000000 COLOR 000000000 COLOR 000000000000 COLOR 000000000000000000000000000000000000	22971-1 24,20 0,033: -7,44,01 U 5,43 6,63 7,462 9,87 7,462 9,87 7,462 9,87 10,45 9,87 11,45 14,72 14,94 15,84 15,84 15,84 15,84 15,25 7,65 23,70 19,22 27,55 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,75 28,19 26,19 27,55 28,19 26,19 27,55 28,19 26,19 27,55 28,19 26,19 27,55 28,19 26,19 27,55 28,19 26,19 26,19 27,55 28,19 26,19 27,55 28,19 20,19 27,55 28,19 27,55 28,19 27,55 28,19 27,55 28,19 27,55 28,19 29,19 20,10	x - 2. 			BET1 B P+ V2 + 3.7 7 4.6 6.3 7 4.6 6.3 7 4.5 5 6.3 7 11.5 2 27.8 8 27.8 27.8 27.8 27.8 27.8 27.8 2	4	а я 0.3 3 H 2 5 G	2 - 544. - 1.498 - 1.498 - 1.498 - 5.883 TAULA4 0.002817 0.002317 0.002317 0.002318 0.00218 0.001451 0.001451 0.001451 0.001457 0.00037 0.00037 0.000357 0.000357 0.000357 0.000351 0.000358 0.0000358 0.0000358 0.000358 0.000358 0.0
PUN: 1 UII - CF/2: CF/2: C/2: COM COM COM COM COM COM COM COM	21671-3 77,21 0.0723 1.01 0.021 0.01 0.01 0.01 0.021 0	x-9C. x-9C. x-9C. x/DC 0.0013 0.0014 0.0012 0.0022 0.00300 0.00300 0.0000 0.00300 0.0000000000	Z • 0 D1 • 0 D2 • 0 D2 • 0 D3 • 0	1.2409 1.1939 1.3506 .7362 10-U11/U -17.02 -16.68 -13.06 -14.56 -14.56 -14.56 -14.56 -14.73 -12.21 -1.05 -1.2.21 -1.05 -1.2.21 -0.67 -9.70 -9.70 -9.70 -5.15 -4.75 -4.75 -4.75 -4.75 -4.75 -4.75 -1.3.63 -3.61 -3.61 -1.3.63 -3.61 -1.3.63 -3.61 -1.3.61 -1.3.61 -5.15 -4.75 -4.75 -4.75 -4.75 -4.75 -4.75 -1.05 -	BETA B P+ VC+ VC+ VC+ VC+ S-2 S-2 S-2 S-2 S-2 S-2 S-2 S-2	- 0.104 - 0.83 - 0.83 - 0.001 - 0.0	R D2 H G	- 2065. - 1.346 - 5.267 TAILAP 0.001406 0.001406 0.001406 0.001406 0.00373 0.00241 0.000405 0.000505 0.000405 0.000241 0.000405 0.00015 0.00015	PUN: 1 CF/2: K K - Y 3-0.5 Y	22971-1 29,20 0.0731 -7,440 U 5,43 6,75 9,87 11.91 11.91 11.91 14.92 27,43 21.21 21.21 22.27 23.70 22.27 23.70 27.54 22.27 23.70 27.54 22.27 23.70 27.54 22.27 23.70 27.54 27.555 27.54 27.557 27.557 27.557 27.5577 27.	x - 2. x - 2.	. 24 D1 • 0 D2 • 0 D1 • 0 D2 • 0 D1 • 0 C • 227 · 4 • 3 C • 227 · 5 • 3 · 6 • 3 · 7 • 3	A. A. A. A. A. A. A. A. A. A.	BE 11 B V 2 + V 3 + 7 + 4 - 6 6 - 3 7 1 - 5 - 5 - 5 - 2 1 - 5 - 5 - 2 1 - 5 - 5 - 2 2 - 8 - 2 1 - 5 - 5 - 2 2 - 8 - 5 - 2 2 - 7 - 5 - 2 2 - 8 - 5 - 2 2 - 7 - 5 - 5 2 - 2 2 - 7 - 5 - 5 2 - 2 2 - 7 - 5 - 5 - 2 - 2 2 - 7 - 5 - 5 - 2 - 2 2 - 7 - 5 - 5 - 2 - 2 2 - 7 - 5 - 5 - 2 - 2 2 - 7 - 5 - 5 - 2 - 2 - 2 - 5 - 5 - 2 - 2 - 2 - 5 - 5 - 2 - 2 - 2 - 2 - 2 - 5 - 2 - 2 - 2 - 2 - 2 - 5 - 2 - 2 - 2		а яд 3 н 2 G 5	2 - 544. - 1.498 - 1.498 - 5.883 TAULA4 0.002831 0.002319 0.002219 0.002258 0.001258 0.001258 0.001353 0.00157 0.00237 0.00037 0.00037 0.00037 0.00118 0.00035 0.00118 0.00035 0.00118 0.00035 0.000

91941 121671-3 X=82. Z= 0.

UI = 2⁰.50 91 = 0.2461 BETA= 0.184 RDZ = 1956. CF72 = 0.00240 DZ = 0.1811 B =-0.830 H = 1.359 F = -0.00139 DZ = 5.0264 PF = 0.001 G = 5.398 K = -0.168E-06 DP3 = 1.6662 VO+ =-0.041

™UN: 121671-3 x=70, 7= 0.

♥UN: 121671-3 x-7C. 7= 0. UI = 70.95 01 = 0.2217 BETA= 0.184 #DZ = 1797. CF/7= 0.00242 DZ = 0.1628 B =-0.814 H = 1.362' F = -0.07197 DC = 4.5767 P+ = 0.002 G = 5.401 K = -C.132E-06 D99 = 1.4422 VO+ =-0.040

RUN: 1	22971-1	X=10	• 2=	o.					RUN:	122971-	1 X=22	. 1-	n.		
UI = CF/2=	26.91	5	01 - 02 -	n.C790 5.0533	RE TA B		RDZ H	= 752. = 1.482	UI CF/2	24.38		01 = 02 =	0.1241 7.0852	BE T	A= 0.298 +-7.650
F =	-0.0011	/8	DC -	1.5062	P+	= 0,006	G	= 6.233		-0.001	24	UL -	2. 50.97		• 0.004
K =	-7.826	-C6	099 -	.4469	¥0+	0.034			к -	-0.460	E-36	094 =	0.6831	V.) +	=-0.r32
۲	U	Y/DC	0701	(0-01)/04	• Y+	U+	TAU	TAULAN	*	U	1/00	0/01	10-01170	IT TO	U+
0.005	5.04	3.0033	0.187	-15.50	3.7	3.57	0.00247	6.002135	2.005	3.72	0.0020	C.153	-17.14	3, 2	3.09
6.016	5.57	0.0040	3.207	-15-12	4.4	3.95	0.00245	0.001975	0.116	4.10	C.0024	C.168	-16.82	3.8	3.40
	6.28	0-1046	0.733	-14.62	5.2	4.45	0.00241	0. JC1 31 5	0.07	4.59	C.0(28	0,188	-16.42	4.4	3. BI
J. 038	6.88	0.0053	7.256	-14.19	5.9	4.88	0.00238	U.CUL689	2.938	5.11	0.0032	6.210	-15.99	5.1	4.24
9.009	7.56	0.0060	0.281	-13.71	6.7	5.36	0.00235	U.Ju1742	2.009	5.86	6.0036	0.241	-15.36	5.7	4.86
3.010	8.25	4.0066	9. 306	-13-22	7.4	5.84	0.00231	0.001558	0.011	6.96	0.3644	0.285	-14,+5	7.0	5.78
1.612	6.41	1.1085	0.350	-12.39	8.9	6-68	0.00225	0. 461519	5.613	6,07	0,0052	n, 331	-13.53	8.2	6,70
2.014	16.71	0.0093	0.358	-11-69	17.4	7.58	0.00218	0.001343	5.015	8.93	0.0040	0.365	-12.84	9.5	7.38
6-016	11.47	0.0106	0.426	-10.94	11.8	8.13	0.00215	u. Jul 184	3.617	9.76	0.0048	U. 417	-12.13	16.7	8.16
0.018	12.49	0.0120	0.464	-10.22	13.3	8.85	0.00209	0.001334	3.019	17.31	0.0076	ú.423	-11.67	12.0	8.56
2 6 3 3	17 84	0 0120	0.504	-0-64	15.5	9.61	3.00204	0-000836	3.021	12.85	0.0084	n.445	-11.21	13.3	9.01
0,021	14 50	0 0150	510		17.8	10.27	0.00200	4.360535	3,024	11.63	0,([96	0.477	-10.57	15.2	9.65
0.024	1	3 3170	0.557		20.0	10.69	0.00196	4.003545	3.127	12.29	3,3168	1.504	-10-03	17.1	10.19
5.021	16 71	0.0100	3 686	-7 03	22.2	11.15	0.00195	0.003453	9.031	13.68	C.0124	Tie 537	-9.37	19.6	10.86
3.034	16.33	0.0226	0.637	-7.5	25.2	11.57	0.00193	0.00362).(36	13.64	0.0143	C. 560	-8.91	22.7	11.32
							0.00101	0.000044	2.(42	14.35	0.0167	A. 589	- 9. 32	26.5	11.90
1.039	10.85	0.0259	0.020	- / 1 3	20. 7	1	0.00100	0.0002200	3.650	14.87	0.0199	0.61J	-7.89	31.6	12,34
6.645	17.48	0.0244	0.657	-0.08	33+3	12.34	3 00147	0.000223	J.058	15.28	0.0231	5.627	-7.54	36.7	12.68
1.052	16.03	0.3345	0.870	-0.29	3042	12.10	0.00184	0.000110	24(72	15,89	L+0279	C.652	-7.4	44.2	13,18
0.075	19.16	0.0412	6.712	-5.49	55.5	13.57	0.00184	0.003112	1.087	16.39	0.0347	0.672	-6.62	55.3	13.60
							0.00181		5.107	16.95	0.0476	0-695	-6-17	57.6	14-05
0.090	19,72	6.0598	3.733	-5.09	66.6	13.97	0.00181	0.003395	1.137	17.51	2.0546	0.718	-5.67	86.6	14.53
3.119	20.33	0.0730	0.755	-4.65	81.4	14.40	0.00116	0.000084	177	18.30	0.0705	0.751	-5-04	111.9	15.18
û.140	21.14	0.7929	J.786	-4.09	103.6	14.98	0.00161	0.000073	3.227	19.03	0.0905	6.781	-4.44	143.4	15.79
2.175	22.09	0.1167	0.821	- 3. 42	129.5	17.07	0.00132	0.003356	277	19.81	0.1104	0.812	-3.79	175-0	16-47
r. 215	23.00	0.1427	0.855	-2.77	159.1	1 6. 30	0.00131	6. 300054							
3.255	73.00	3.1493	1	-2-14	188.7	16.93	0.00108	0.000053	5.327	23.45	č.1303	÷.841	- 3. 23	206+6	16.99
0 300	24 81	0.1007	0.927	-1.49	222.0	17.58	0.00083	0.00.044		23.20	0.1502	0.970	-2.57	738.2	17.59
3 350	25.64	1.2174	6.953	-0.90	259.0	18.17	0.00059	u. 06603+	1.427	21.88	0.1701	5.898	-2. 77	269.8	18.16
3.357	24 70	3.2486	0.077	-7.44	296.0	18.63	0.00041	0.000523	: 462	22.54	0,1921	ú.925	-1+,52	30 4 . 6	18,70
3.453	26.66	0.2988	0.991	-C.17	333.0	18.89	0.00027	0.063.15	3.537	23.12	C.2140	* • 949	-1.04	339.3	19.19
				-0.2	370 0	10.04	0.00015	0.115108	592	23.57	0.2359	C. 967	-0.67	374.1	19.55
0.500	20.80	0.3320	1 600	-0.05	175 5	13.07	0.00000	0.001510		23.93	J.2578	11.984	-7. 32	438.9	19.91
1.515	20.92	0.3818	1.000	0.00	76707	10.07	0.00000	6 800000	7.777	24.22	C. 2817	. 994	-0.13	446.8	20.10
9.650	204 91	0.4315	1+600	0.00	46796	1.24.01	0.00000	0.000000	1.782	24.36	0.3116	0.999	-0.01	494.2	20.21
									.857	24,38	7.3415	1.092	P+ 11	541.6	21.23

									RUN:	122971-3	x=46		·.				
RUN: 1	22971-1	X = 34.	• 2*	n													- 1 502
u1 =	23.00		D1 =	0.1603	BETA	= 0.275	R D 2	1353.	01	21,97		91 -	1967	001		RUZ	1 1 2 4 2 4
CF/2+	0.0023	1	02 =	0,1122	в	×-0,645	н	1.+29	CF/21	3.3023	21	02	. 1982	.	- 0.042	2	- 1.723
F *	-0.0014	9	DC =	3,3373	P+	= 0.003	G	= 6,251		-0.001		00 -	• 1021		- 0.002	U U	• 0.525
K =	-6.328E	-06	099 =	9.8938	v") +	=-0+031			K •	-2+2571	-36	Daa =	1.1196	Ac. •	x+0.050		
Y	U	Y/DC	0701	(0-011/0	• ••	U+	TAU	TAULAN	¥	U	Y/DC	0701	(0-01)/0	• Y+	U+	TAU	TAULAM
		(A 147	-17 44	3.7	3. 37	0.00209	0.0.1978	0.005	2.90	0.0012	0+132	-18.40	2.7	2.80	0.00204	U. UUI 748
3.000		0.0017	0.102		3.8	3.70	0.00207	0.331876	J. 606	3.14	0.0014	0.143	-18,22	3.3	3.04	0.00202	0.001592
3.037	4.19	0.0020	0.176	-14 76	5.0	4-08	0.00205	0-001775	0.007	3.45	0.0017	0.157	-17.92	3.8	3.34	0.00201	しょびじをもうひ
3.038		0.0023	0.190	16.14	1.2	4 51	0.00202	11.101553	0.008	3.77	C.0019	0.171	-17.62	4.3	3.65	0.00199	6.6.1457
0.109	4.99	0.0026	0.21	+10.30	3.0		0 00107	0.041624	9.669	4.18	0.1022	0.190	-17.22	4.9	4,05	0.00197	0.301514
2.011	5.87	0.0032	0.255	-12:20	De 1	24.21	0.00147	0.001014									
	4 70	A 6038		-14-68	7.3	6.13	0.00192	0.001516	0.010	4.54	0.0624	0.206	-16.87	5.4	4,39	0.00195	0.301536
		0.0000	0 2 7 6	_13 87	8.5	6. 99	0.00186	0.061389	0.012	5.34	0.0029	0.243	-14-10	6.5	5.16	0.00190	0,0115.2
0.015	1.12	0.0044	0,350	-13.02		7 60	0.00183	0.001299	J+014	6.11	0.0033	 278	-15.36	7.6	5.91	0.00186	0.001422
0.017	8.39	0.0050	0.305	11 57		8 74	0.00179	0.001126	1.016	6.75	0.0038	u.307	-14.73	8.7	6. 53	0.00182	0.0,13,4
3.019	9+11	0.0056	6. 636	-11 77	12.5	9.04	0.00174	0.006914	0.019	7,78	0.0045	0.354	-13.73	17.3	7.53	0.00176	0.061157
3.122	4.44	0.000	0.434	-11.													
/ A25	10 01	0 6074	1. 676	-10-94	16-3	9.87	0.00169	0.000756	0.022	8.68	0.0053	P.395	-12.86	11.9	8.40	0.00171	6.001019
4.022	104 41	0.107		-10 53	14.4	1/1 28	0.00166	0.00.588	0.025	9.26	6.0060	D.421	-12.30	13.5	8.96	0.30168	3.303898
0.024	11.30	0.0000		-0.05	10.0	10.86	0.00141	0. 303472	3.029	17+27	0.0069	0.467	-11.33	15.7	9.94	0.00162	U. UUJ7UB
3.033	12.01	0.1098	0.722	- 7. 72	10.7	11 30	0.00161	0.0(3380	7.633	10.91	0.0079	0.497	-10.70	17.9	10.56	0.00159	0.00.509
0.037	12.48	0,0110	0.241	-9.32		11. 37	0 00159	L 0.0328	0.037	11.54	C.C38A	0.525	-10-10	20.0	11.17	0.30155	0.000478
0.042	13.01	0.0125	0.565	-9.04	2 4. 1	11.0	0.00137	0,000 52 0									
					20.2	12.27	0.00157	0.04.266	3.042	2 11.82	0,0100	0.535	-9.83	22.8	11.44	0.00154	0.000359
3.049	13.55	0.0140	0.504		2702	12 76	0.00155	6. 0. 01 76	040	12.36	0.6115	3,563	-9.30	26.0	11.96	0.00152	U. UUU277
7.059	14.04	0.0170	0.015	-0.70	49.4	13 10	0.00154	0.00.122	U. 056	12.97	0.0134	4.593	-8.71	30.3	12.55	0.00149	0.001211
0.074	14,69	0.3221	0.034	- 7 - 52		13.30	0.00154	4. 4600189	5,656	13.28	0.0158	0.605	-9.41	35.8	12.86	0.00149	0.303167
0. P94	15.15	0.0280	0.659	-1-11	24+2	13.11	0 00154	0.0000007		13.79	0.0191	A 627	-7.9Z	43.3	13.34	0.00148	0.001118
2+119	15-62	0.0355	0.6/9	-0.05	0.04 1	14014		01000000									
			0 700	-4 07	80.0	14.74	0.00154	0.003057	5.097	14,27	0.0232	0.650	-7.45	52.6	13.81	0.00147	0.00.087
2.174	10.29	0.0460	0.708		112 7	15.77	0.00154	0.000649	J. 122	14.60	0.0292	0.667	-7+08	66.1	14.18	0.00148	0,0,003059
0.194	16.82	0.0560			144 0	15 01	0.00151	0.101142	+•157	15.12	0.0375	0.698	-6.53	85.1	14.64	0.00148	0.000054
3.254	17.50	0.0760	. 704		1 40. 7	16 68	0.00147	0.000.39	i. 2C 2	15.69	C.0483	0.714	-6.08	109.4	15.19	0.00149	0.003045
2.314	18.21	0.0940	0.192		101.	17.01	0 00139	0.00000077	1.252	16.2.	0.0602	0.737	-5,58	136.5	15.68	0.00149	0.000340
3.374	18.78	0.1119	0.817	~3.81	510-2	11.00	0100137	010000000									
				-1.10	387.0	17.63	0.00127	0.000335	1.312	15.78	0.0746	n.764	-52	169.U	16.24	0.00147	0.000037
0.444	19.48	0.1329	0.847	- 7.17	200. 2	18.70	0.00111	4.063337	U. 372	17.26	C.0889	3.786	-4.56	261.5	16.71	0,00145	0.000034
3.519	20.22	0.1779	0.879	-2.32	300.5	10.17	0.00092	0.046034), 432	17.77	0.1933	0.809	-4,07	234.1	17.19	0.00141	0.063332
3.594	20.83	0.1779	0,906	-1,96	343.4	10.03	0.00873	0.0000000	0. 512	18.36	2.1200	0.835	-3.53	272.0	17.76	0.00134	6.000.30
0.669	21.52	0.2003	0.936	-1.34	387.4	19.47	0.00073	0.100020		18.88	0.1379	0.959	-7.99	312.6	18,27	0,00124	0.001358
2.744	22.02	0.2228	0.957	-0.89	430.8	19.92	0.00633	0.000021									
		n 34-73	0 070	-0.44	676.3	20.35	0.00037	6.000015	1.652	19.37	r.1559	6.882	-2.57	353.2	18.75	0.00111	6.000327
3+819	22.49	0.2433	0.478	-0.40	217 7	20 40	0.00074	0.305110	1.752	23.06	3.1798	n.913	-1.85	407.4	19.41	0.00091	0.001024
0.894	22. 17	0.2678	0.990	-0.21	576 7	20. 70	0.00010	0.0014.5	J. 852	21.66	0.2037	r.94n	-1.77	461.6	20.00	0.00070	6.000020
0.994	22.97	3.2977	0.099	-0.03	21701	2	0.00800	0.061041	5.952	21.21	0.2276	C. 965	-0.74	515.8	20.53	0.00051	6.003316
1.094	23.00	0.3277	1.200	9,50	401 -	274.01	0.00000	0.00010.0	1.052	21.65	3.2515	7.983	-7,36	573.0	20.90	0.00034	0.000011
1.194	23,00	0.3577	1.000	· · · · · · · · · · · · · · · · · · ·	691.5	2.70.01											
									1.177	21.88	0.2814	0.995	-0.09	637.7	21.18	0.00018	0.000006
									1.302	21.99	0.3113	1.001	a, 11	705.4	21.28	0.00007	0.003373
									1.452	Z1.97	3.3471	1.001	02	786.7	21,28	0.00000	0.000011
									1.602	21.97	0,383(1.000	0.17	867.9	21.26	0.00000	0.003330

811 10 11

RDZ = 1089. H = 1.456 G = 6.335

TAULAM

TAU

3.09 0.00223 0.00233 3.40 0.00221 0.001962 3.81 0.00218 0.001891 4.74 0.00218 0.001835 4.86 0.00211 0.001837

5.78 U.C0205 O.UG1724 6.70 G.C0199 U.OU1490 7.38 O.00194 O.UG1268 8.10 O.C0189 G.UG128 8.56 O.00187 U.UG2967

 •.c1
 0.00184
 0.000873

 •.65
 0.00180
 0.001720

 10.19
 0.00177
 0.0016499

 10.86
 0.00171
 0.002499

 11.32
 0.00171
 0.002380

11.90 0.00168 0.00239 12.34 0.00167 0.00211 12.68 0.00166 0.30153 13.18 0.00164 0.30153 13.60 0.00164 0.301399

14.05 0.00163 0.30.080 14.53 0.00161 0.000365 15.18 0.00158 0.00056 15.79 0.00158 0.300055 15.79 0.00151 0.30051 16.43 0.00141 0.300048

16,99 0.00127 0.000045 17,59 0.00112 0.000043 18,16 0.00095 0.00003 18,70 0.00097 0.00003 18,70 0.0007 0.00003 19,19 0.00061 0.00032

19.55 0.00046 0.000322 19.91 0.00035 0.00016 20.11 0.00023 0.00030 20.21 0.00010 0.003305 21.23 0.00000 0.003305

0.957 24.38 C.3813 1.COD 0.00 634.8 21.23 0.00000 6.000000

RUN: L	22971-1	X=58	• Z=	n.					RUNI	122971-1	X= 70.	Z= "	۰.				
UI -	21.27		91 ×	0.7257	8ET A	- 0.248	RDZ	= 1851.	UI =	20.68		01 • 7	. 2588	BETA	- 7.242	RDZ	* 2013.
CF/2*	0.0021	5	D2 = 1	0.1614	в	=-0.643	н	= 1.398	CF/2=	0.0020	8	0Z = 7	•1853	8	=-0.635	н	• 1.396
F •	-2.0013	a	DC = -	4.8719	P+	 0.005 	G	= 6.146	F =	-0.001	2	DC = 5	.6776	P+	= 3.395	G	= 6.220
× =	-0.211E	-06	D99 =	1.3344	¥0+	=-0,030			K =	-3.1791	-06	099 × 1	• 51 99	40+	*-0-029		
۲	U	¥/0C	U7UT	10-01170	I# Y+	U+	TAU	TAULAN	Y	U	¥/9C	0701	(U- UI I /U+	¥+	U+	TAU	TAULAN
0.005	2.97	0.0010	0.137	-18-63	2.6	2.96	0.00197	6. 161949	1.015	7.57	6-2009	C-174	-19-21	2.5	2. 73	0.02193	0.001757
0.006	3.14	0.0012	149	-18.36	3.1	3. 22	0.00196	U. JULBIB	.076	2.73	0.0011	0.132	-19-04	3.0	2.90	0.00192	0.001637
0.007	3.56	0.0014	2.167	-17.97	3.6	3.61	0.00194	0.001688	1.167	3.05	0.0012	(.147	-18,70	3.5	3.24	0.00190	0.361536
0.008	3.91	9.3016	0.184	-17.61	4.1	3.97	0.00191	v. Ju1547	1.008	3,37	0.0014	0.163	-18.37	4.0	3.57	0.06188	0.001385
.039	4.23	3.7018	0.197	-17.33	4.7	4.26	0.00190	0.001609	1. Cū 8	3.66	6.0016	L.177	-18.76	4.4	٦,88	0.02286	0.061497
3.711	5.06	0.3023	r.238	-16.45	5.7	5.14	0.00185	0.0.1550	÷.011	4.32	0.0019	1.209	-17.36	5.4	4.58	0.00183	6.001469
0.013	5, 72	0.0027	r.259	-15,79	6.7	5.80	0.00181	0.001459	5.013	4.74	0.0023	v.239	-16.75	6.4	5.24	0.00179	ひょうじしょうも
3.015	5.49	0.0031	·).3(5	~15.1	7.8	6.58	0.00176	0.001336	r+€16	5.94	7.7028	C.287	-15.64	7.9	6.30	0.00173	0.011270
3.018	7.39	3.0637	0.347	-14.09	9.3	7.50	0.00171	u.0u117u	2.019	6.82	0.0633	J. 330	-14.70	9.4	7.24	0.00168	0.001145
0.021	8,18	0,0043	0.385	-13,29	17.9	8.30	0.00167	ú.Juj996	.023	7.75	C+0041	0.372	-13,77	11.4	8.17	0.00163	0.00980
6.024	8.79	0.0049	0.413	-17-47	17-4	B. 97	6.00163	0.0.3665		8.56	3,0048	7.414	-12.36	13.3	9 . ra	0.00158	0.013868
1.1128	9.71	0.0057	6.454	-11.74	14.5	9.85	0.00158	0.00.726	. (37	9.48	5.056	6.458	-11.88	15.8	10.36	0.00153	4. 403651
1.012	10.15	G. [C66	6.477	-11.29	16.5	10.30	D. 00156	6.0.05.5	. 037	10.21	V. (65	1.494	-11.11	18+3	10.43	0.06149	0.00.536
1.037	10.96	0.0676	0.515	-17.47	19.1	11.12	0.00151	0.000481		17.67	V.C.76	6.516	-17.02	21.3	31.32	0.06146	0.66J41Z
	11.67	0.0090	0.549	-9.74	22.7	11.84	0.00147	0.000352	1.051	11.41	0.003.0	r., * *2	- 9.83	25.Z	12.10	0.00142	0.001311
0.653	12.28	0.0109	0.577	-9,12	27.4	12.46	0.00145	0.000257		12.67	6109	0.584	-9.13	37.6	12.81	C.0C140	0.303213
J. 066	12.74	0, 01 35	0.599	-8,56	34.1	12.92	0.00143	0.000168		12.48	3.9134	C.603	-8.7	37.6	13.24	0.00138	0.000152
1.084	13.45	0.0172	F.63P	-7.99	43.4	13.59	0.00141	u.060113		13.77	C.0369	6.532	-3+08	47.5	13.86	C.CC136	0.000101
0.109	13.89	0.0224	C.653	-7.49	56.3	14.09	0.00141	ບໍ່ເປັນປະເສີບ		13.49	0.0222	7.652	-7.63	62.3	14.31	0.0CL35	u. 000169
5.144	14.41	3.0296	ri+ 677	- 6. 96	74.4	14.67	0.00141	0.060659	166	14.13	L.7292	C.683	-6.95	82.1	14.99	0.00134	6.363.51
2.189	14.93	0.0388	U. 702	-6.44	97.7	15.15	0.00142	0.010046	. 22 6	14,56	0.0398	u.764	-6.50	111.7	15.44	0.00135	0.066639
- Z49	15.47	0.0511	0.727	-5.89	128.7	15.69	0.00142	0.000037	301	15.10	0.0530	v. 730	-5.93	148.8	16.01	0.00135	0.003333
J. 309	15,99	C.C634	6.752	-5.36	159.7	16.23	0.00142	0.0033	391	15.7)	1.0671	C.759	- 5, 29	168.3	16.65	0.00134	0.000029
J. 384	16.50	0.3783	3.776	-4.94	198.4	16.75	0.00140	6.000029	.481	16.22	0. * 847	(* 7 94	-4.74	237.8	17.20	0.00110	0+000327
• 459	16.99	9.0947	3.799	-4, 34	237.2	17.24	0.00137	0.000027	• 581	16.88	2.1623	1.819		281.2	17.91	0.06120	J. 000024
0.534	17.47	C.1096	0.821	-3.96	275.9	17.73	0,00132	0.000026		17.34	5.1199	.838	- 3. 55	336.6	18,39	C.CC120	0.000323
1.609	17.82	0.125h	0.837	- 3, 51	314.7	18,58	0.00125	u. Dú.: u25	·. RC 6	17.99	0.142L	C.870	-2.86	298.4	19.08	0.00109	0.063021
1.739	18.49	2.1455	0.869	-2.94	366.3	18.75	0.00115	J. 000024	.931	(8.51	0.1640	0. 895	- 2. 3)	46 2	19.63	C.0C094	0.0000119
1.879	19.06	0.1661	0,896	-2.24	41 8. C	19.14	0.00101	0.003322	1.656	19,15	(.1860	6.923	-1.68	555.0	20.25	0.00077	C.Cuuul7
.939	19.62	0.1866	0.922	-1.58	469.7	19.91	0.00085	v. DC3020	1.206	19.65	0.2124	C. 950	-1.79	596.1	20.85	0.00055	0.063313
1.019	21.07	0.2071	0.943	-1,22	521.3	20.36	0.00067	6.000017	1,356	20.11	1,7388	n. 972	-0.6r	670.3	21.33	C.0C035	0.000010
1.134	20.51	0.2328	C.964	-7.77	585.9	Z7+8Z	0.00045	0.003313	1.556	20.56	n,2741	0.994	-7.13	769.1	21. 8h	0.00015	0.000006
1.259	20.94	0.2584	n.984	-7.34	657.5	21.25	0.00027	0.000039		20.67	0.3093	0.999	-0+33	865.0	21.93	C.OC003	0.002302
1.409	21.19	0+2892	J. 996	-7.08	728.0	21.51	0.00011	C.DU.305	1.856	26.63	0.3269	1.000	6.10	517.4	21.54	0.00000	0.00.3.1
1.639	21.29	0,3303	1.001	n •∂2	831.3	21.61	0.00000	0.003.JJ	2.056	21.68	7.3621	1.000	e.301	215.3	21.94	0.00000	
1.809	21.27	0.3713	1.000	0.90	°34•7	21.59	0.00000	0.003330									

RUNII	122971-1	L X×82	• 2•	3.					+ UN: 1	22971-1	x=90		^ .			
UI =	20.26		D1 =	· 2913	BET	4. 1.231	P 0.	- 2220.	ы т в	19.91		01 .	3.3665	RETA	Av 0.237	RD7 # 2316.
CF/2*	0.0020	3	D2 -	0.2095	В	-C.636	н	- 1.39)	(F/2s	0.0020	a l	02 .		8	-1. 637	H 1.382
۶.	-0.0012	9	DC +	6.4707	P+	= 0,002	G	= 6++37		-1 1013		nc -	4 4300		0.032	6
К #	-0.1558	-76	799 =	1.7392	¥0+	=-0.029				-0.1496	-114		1.8407	vo.		0 - 01104
					• •				· ·		-00		1.0472			
۷	U	Y/DC	U7UI	10-01170	I# Y+	U+	T AU	TAULAM	۲	U	Y/DC	JAGI	{U+U1170*	¥+	U+	TAULAM
	Z.53	0.1008	7.12	5 -19.43	2.4	2.78	0.00188	0.00160Z	46.7	3.05	11010	6.153	-18.90	3.2	3. 42	u.JL1718
3.CJ6	2.62	0.0009	0.129) -)a.34	2.9	2.87	0.00187	U.Ú.1415	0.018	3.19	0.0011	3-160	-18-75	3.6	3.57	J. L L 1639
1.17	Z . 75	0.0011	9.136	-19.27	3.3	3.01	0,00187	0.061228	1.009	3.41	0.0013	0.171	-18-51	4.1	3.81	11-01-1561
CC 8	3.06	6.0017	5,151	1 -18,96	3.8	3.15	0.00185	v. JUL J74	.011	6.00	0.0016	201	-17.91	5.1	4.49	to tout Area
1.039	3.23	6.0014	(.15)	-18.71	4.3	3-50	0.00184	w.t.ul/.6	-017	7.00	6 0610	7 7 7 9	-17	~ .	5 11	0.001401
									-015	••••	1.1014		-17.1	9.4	3.36	0.001431
1.011	3.75	0.0017	0.185	5 -18.30	5.3	4.11	0.00181	ü, Jul343	°.C16	5.42	0.0(23	1.272	-16.24	7.4	6.08	0.001286
J. C13	4.34	0.000	0.214	-17.46	6.2	4.76	0.00178	0. Jul 304	>.019	6.38	0.0627	3. 320	-15.17	8.8	7.15	0.001133
.016	5.34	0.0025	D.264	-16-35	7.7	5.86	0.00172	6+11-1381	1-622	7.15	2.(032	. 359	-14, 31	10.2	9.71	0.041366
	6.10	0.0629	0,301	-15.53	9.1	6.67	0.00167	0.001285		7.74	C.CC38	5.384	-11.45	12.1	8.67	6.44.366
1.022	6.93	0.1034	0.342	-14.62	10.5	7.59	0.00163	C.001151	.011	8.59	0.1345	(. 431	-17.69	14.4	9. 63	12
											20.2042	• • / •				00000002
"• P26	8.13	C.CC40	n, 401	(−13 , 30	12.4	8.91	0.00155	6.063934	1.036	9.37	0+0052	0.470	-11.82	16.7	10,50	U. JuJ556
J*131	8,82	n.0646	1.43	5 -12.54	14.3	9.67	0.00151	0.666790	v. 043	10.09	0.163	4.517	-11-11	21.0	11.30	0.66.437
)+035	9.59	f.C054	L.473	-11.75	16.7	10.51	0.00147	, , , , , , , , , 8	- 653	13.82	0.1077	6.543	-15-19	24.7	12.13	0.0033.2
43ن.1	17.23	0.0756	しょうしき	5 -11, 0	20.6	11.21	0.00144	6.003447	1.066	11.45	0.466.96	5.575	-9.49	30.8	12.83	0.00.2.14
	11.17	6.6682	0.551	-9.97	25.3	12.25	0.00139	u.uu.283	1.084	12.01	C. 1123	C. 6C3	-8.86	39.2	13.46	0.0.0131
												• • • •			• / • · •	
.,058	11.83	0.0105	6.583	-9.27	32.5	12.94	0.00136	6.000184	1.111	12.58	0.2162	0.632	-9.21	51.8	14.15	u.0000567
.088	12.37	0.0136	0.611	-8.65	42.1	13.56	0.00134	0.000152	2.146	13.13	0.0213	P.659	- 7. 5"	68.2	14.72	U. DLJU61
.118	12.85	0.0182	⊃.634	-9+12	56.4	14.09	0.00133	6.000079	176	13.39	0.7286	0.673	-7.31	91.6	15.01	0.000046
163	13.51	0.0252	(.667	-7.40	78.0	14.81	0.00132	じょうじょうちゃ	. 266	14.12	0.0389	. 709	-6.50	124.4	15.82	0.00.355
• 228	14.22	r.0352	2.702	-6.63	109.0	15.58	0.00130	6.306039	. 366	14.72	0.7535	6.739	-5.82	171.1	16.50	0.000024
.278	14.64	0.0461	C.723	-6.16	142.5	16.05	0.00130	u.uujjj32	. 491	15.41	0.7718	e.774	-5.15	229.6	17.27	0.060524
. 398	15.15	0.0615	L.746	1 -5.61	190.3	16.60	0.00131	0.000027	:,. 641	16.02	0.0937	C.805	~4.36	299.B	17.96	0.360021
. 498	15.71	0.9770	0.775	-4.99	238.2	17.22	0.00132	0.000024	J.791	16.64	0.1156	0.835	- 3. 67	370. P	18.64	0.000019
. 598	16.27	Ŭ.0924	L.843	-4.38	286.C	17.84	0.00130	0.065323	1. 966	17.27	0.1412	P. 867	-7.96	451.9	19.36	0.003517
. 723	16.78	0.1117	n. 826	-3.91	345.B	16.40	0.00125	9-000151	1.166	18.03	0.1704	0.935	- 2.12	545.4	20.20	0.000015
. 848	\$7.33	6.1311	0.856	-3.21	405.6	19.03	0.00116	ue 000019	1. 36.6	18.44	r 1007		-1 43	439.6	20.89	
973	17.85	0.1504	0.241	-7.65	465.4	19.57	0.00105	1000018	1 + 30 C	10.04		0. 930	-1.45	737 4	21 81	0.000012
	18.30	0.1697	0.903	-7.15	525.1	20.06	0.00092	0-046016	1.500	1746)	0.2209	0.030	- /. 5'	122.0	214.71	0.000009
1.748	18.98	n. 1929	0.017	-1.52	506.0	2/70	0.00074	0.000010	1.816	14.09		. 988	- 7.20	0 1 7 . 7	22.0	0.000000
1 448	10.44	0.7718	0.061	-1.92	601.5	21. 14	0.00040	0.0000011	2.066	17.92	0.3020	1.000	U 11	Y00- 7	22.32	0.001103
11440	1 78 40			- /• 4 /	07283		0-00049	0.000311	2.316	19.94	0.3386	1.001	0.4Z L	83.5	22.54	0.000301
1.648	19.94	0.2547	0.984	-0.35	788.2	21.86	0.00026	u. 000007	2.616	19.91	0.3824	1.000	7.10 1	223.B	22.32	0. 0 W 000
1.848	20.2)	0.2856	0.597	-0+17	883.8	22.14	0.00009	0.003334								
2.748	20.29	0.3165	1.001	5.03	979.5	22.24	0.00000	ŷ, Uliuuu 2								
2.298	20.26	0.3551	1.000	0.00	1099.1	22.21	0.00000	J. DUJJUD								

.

RUN: 1	21171-3	X= 2	. 2.	7.				RUN: 1	21171-3	3 X=10	, Z=	n.				
01 =	29.35	4	01 • 32 •).0518 0.0337	BFT A B	= v.12∩ =-0,336	RDZ = 514. H = 1.56J	U1 = CF/2=	26.89	4	01 • 1 02 • 1	1.0858 1.0590	BET A	= 0.425 =-0.406	PDZ H	826. 1.565
F ¥ K ¥	-0.00L9	9-06	DC =	C.2991	₽+ ¥3+	- 0.003 -0.018	G = 6.465	F = K =	-C.NOU -J.B32E	-06	DC = 1 799 =	1.7994 1.4732	P+ V0+	= 0.537 =+0.720	6	- 6.795
v	u	¥70C	0701	(U-U] 1/04	¥+	U+	TAULAN	¥	U	¥70C	0701	(I=01370+	¥+	U+	TAU	T AUL AM
•	•					3.36		0 0L.K		8 3658	1 1 04	-16 17		3.94	0 00230	a. 002 193
J. 074	5.0Z	0.0045	1.171	-17.20	2.0	3 84	1. 1. 1. 1. 72	0.005	7.23	C. C. 23		-16.19	4.5	4.07	0.00231	1. 0.1937
3.095	5.64	0.0055	3.142	-14.89			in model of			1 1 0 1 0		-15 74		4 50	0 00730	1774
1.004	5.38	0.0066	7+217	-14.43	2.2	44 -1	1973	3.000		6 6 7 5 4	350	-15 10	6.6	5.07	0.00226	0.001569
1.007	7,43	0.(076	0.255	-13, 16	0.1	4,07		1.000				-14 72		6 63	0 00777	L. Dutha
3. GU B	8,49	0+0087	3.289	-13.19	P* A	7.33	0.001770	0.004	/.34	We	• 2 / 3	-1/3	0.2		0.00000	01001000
3-010	13.22	0.0108	n. 348	-12.72	8.5	6.4Z	6.601731	5.711	8,55	P_CC61	0.315	~13.82	7.6	6.45	0.00224	Ű.OL1482
	11.55	0.0129	3.394	-11.18	1.0.2	7.25	6.001335		9.72	0.0072	0.361	-12.94	9.0	7.32	0.00222	6.361288
-013	12.35	0.0139	1.421	-16.68	11.7	7.75	U.CUI4II	5.015	13.57	0.€€83	. 393	-12.3/	10.4	7.96	0.00221	u, DuiléG
	13.95	5.0171	3.475	-9.67	13.5	8.76	0.001164	··· 017	11.39	C.(094	C.473	-11.69	11.7	8,58	0.00219	0.001325
5.018	15.17	0.0192	0.517	-8,91	15.2	9.52	L. GUIDI3	3.019	12.14	U.1196	451	-11.11	13.1	9,15	0.00218	v, 0cú9ju
				-9.40	16.8	1.3-28	0.003858	3.021	12.92	0.0117	0. 681	-10-52	14.5	9. 74	0.00216	0.055798
0.020	12.48	0.0212		-7.04	16.5	10.49	L. ULU750		13 47	0.0133	1.508	-9.94	14.6	10.30	0.00215	4.44.645
).C2Z	15.71	0.0200		7 34	21.3	11-15	0.06571	1.628	14.55	0.0156	0. 541	-9.79	19.3	10.97	U. 00214	5.063468
1.025	17.59	0.0207	L. 399	- 1. 77	24.3	11.44	6. 06.450	5.014	15 44	1.140	74	-9.53	23.5	11.63	0.00213	Les 146.1. 34 0
1.029	18.57	0.0349	0.654	-6.38	27.6	12.05	u. DUU 35J	0.042	16.14	0. 1233	7.677	-8.10	29.0	12.16	0.00212	J. JUJ250
1.638	19.95	C.0401	3.650	-5.97	31.8	12,53	0.00270	0.053	17.09	0.0295	~.636	-7.38	36.6	12.86	0.00211	0.00.178
3.043	20.39	- ?. e453	l v.695	-5.62	35.9	12.81	0.001221	3.068	17.91	0.0376	1.665	- 6. 77	47.0	13.49	0.00210	0.063134
7.849	26.90	0.3516	n.712	-5.31	43.9	13,12	L. U00186	0.088	15.7.	0.0489	€ +6 96	-4,17	60.8	14.09	0.00206	0.003169
0.055	21.37	0.0579	5.728	-5+01	45.9	13.42	0.00101	0.108	19.34	0.0603	r.719	-5.69	74.6	14.57	0.00201	0.000143
J.063	21.94	7.9662	2 5.T4R	-4.65	52.5	13.78	0.000144	··· 138	20.31	3.3767	7.755	-4.96	95.4	15.30	0.00191	u. Juu v81
		A A776		-4.28	61-6	1 +. 16	3.363128	1-178	21.52	0.0989	3.800	-4.15	123.6	16.22	0.00174	0.00.372
0.074	22+24	0.0016	734	-3.76	74.0	14.67	0.203169	0. 223	22.60	0.1239	7. 941	-3.23	154.1	17.03	0.00148	U. U. U. U. U. J
0.084	23+31	0.0733		-1.22	90.6	15.21	0.000195	1. 77 1	21.74	1.1517	883	-7.37	155.6	17.89	0.00117	3.000054
2.139	24.23		· /• 02 /		107.2	15.69	0. 303084	1. 171	4.71	0.1795	020	-1.67	773.7	18.64	0.00086	4.6-00-543
1.124	25.95	6.1615	1.884	-2.14	127.9	16.33	0.303073	3.373	25.61	24 73	4.952	-0.97	257.8	19.29	0.00065	3.002.33
						14 88	11. 110. (10)					- 5 45			0 00049	0.5
5.184	26.88	v,1929	0.916	-1.55	192.8	10.00	0.000002	3.423	26.29	0.2351	0.978		<i></i>	1 4. 81	0.00046	0.333323
2.214	27.69	3.2243	3 1.944	-1.14	11141	11.39		J. 498	25.78	0.2768	. 995	-0.18	394.L	20+18	0.00024	0.00012
1.244	28.35	0.2557	n,966	-0.63	272.6	11.89	0.200138	- 573	26.89	0.3184	1.000		149-0	2: • 25	0.00000	0.003334
3.284	28.95	0.297	5 (. 986	-0.25	235.7	18.18	0.00323	1.648	26.87	0.3601	1.0.09	1 • - 1	a4/a8	21. • 50	0.00000	0. 363360
0.329	29.28	0.3446	5 0.999	i -0,15	273+0	18.39	0.000011									
3 370	20.36	0.3976	1.00	6.00	314.5	16.43	J. DL. J. 3									
0.454	29.35	0.475	1.000	1.00	376.7	18.43	0.00.000									

n.uk. 1	11171-7	¥=77.	7.	n.					RUN: 1	21171-3	X=34.	7= 1					
KUN1 1	211/1-3		• •	-								c) = (1918	BETA	= (+, 369	RD2	= 1553.
υ ι •	24.35		01 •	n.1473	BETA	= 0.497	RUZ	* 1223+		· · · · · · · · · · · · · · · · · · ·		ŏž	1306	8	=-11.484	н	- 1.469
CF/2+	7.7021	2	02 -	n . N98 9	8	*-n.463	н		0772-	3.00203		nr •	2612	P +	 3,924 	G	• 7.,32
	-1-051.98		DC *	3,2012	P+	 n.005 	6	- 7.143			`	000 -	26/17	VO+	- 1. 122		
	+ 3- 661 F-	06	099 =	.7584	¥2+	=-0.721			κ =	3268-	-'. 0			• • •			
		•-															
											~		211-01T170#	٧.	U +	TAU	TAULAN
v		Y/DC	0/01	{0-01}/04	• Y+	U+	T AU	TAULAN	Ŷ	0	170C	3701	10-01110-				
	•										0.0013	0.140	-19.10	3.0	3.12	0.00191	0.001710
0.005	3.83	0.0016	0.157	-18.32	2.9	3.42	0.00199	0.001643	3.0.5			3 1 5 3	-18-88	3.5	3.34	0.00191	U.G.1562
3 006	3 92	0-0019	0.161	-18,24	3.5	3.50	0.0200	4.061783	3.037	3.47	0		10.00	6 6	4.02	0.00189	6-6-1500
3.900	6 36	0.0072	0.179	-17.35	4.1	3.89	0.00198	0.001573	2.009	4.15	6.1053	0.191	-10.17		4 74	0.00186	0.0.1493
0.001		0.0025	0.199	-17.44	4.7	4.30	C.CO197	6.001490	5.011	4.95	0.0725	2.214	-1/	2.4	E 66	0.00143	4- 301 664
0.008	2.01	0.0025	0.744	-14-54	5.8	5.30	0.00194	6.001529	0.013	5.82	0030	1.234	-10.00	0.0	7.04	0.00405	
3.013	5.3.	0.0000														0.00178	A 101243
				18 11	7.0	6- 13	0.00191	0.001392	0.016	7.07	6.0637	J.308	-15.37	5. 4	0.07	0.00170	0.001145
2.015	6.76	0.1037		-10.71		6.85	0.00189	0-441229	1.019	8.15	L.0044	٦.356	-14.32	15.0	7.90	0.00115	0.001304
0.014	7.67	0.0044	1. 113	-14.07		7 85	0.00186	0.0.1.138	0.623	9.31	C.C053	0,405	-13.22	12.2	9.60	0.001/1	0.000834
3.u17	8.84	0.0053	7.361	-13.39			0.00143	6. 6.3.880	3.028	10.22	1.0067	1. 446	-12+32	15.4	9,90	0.00104	v. J(J) / 5
0.020	9.66	0.0062	0.397	-13-12	11+1	8.02	0.00183	6	3 6 3 0	11.69	3.3091	0.510	-17.89	20.8	11.32	0.00165	0.00.371
3.024	10.50	0.0075	- G. 434	-12.31	14+C	9.43	0.00101	0.003073									
										17 43	5 6 9 3 6	5.549	-10-02	26.7	12.77	0.00164	6,06250
0.029	11.70	0.1091	0.481	-11.29	16.9	10.45	0.00114	0.000001	1.13	17.0	0 0162	6 5.83	-9.77	34.7	12.94	0.00164	0. Juj 169
1.036	12.66	3-0112	0.520	-10.43	21.0	11.31	0.00177	0.00.381	1.007	1 3 . 3 /	1.01.92	1 414	- 4. 54	48.2	13.68	0.00165	0.000133
0.046	11.51	0.0141	0.555	-9.68	26.2	12.06	0.00176	4. UUuzb7	r.c90	14.12	0.0213		-7.83	47.1	14.38	0.00168	0. 363572
	14 11	6.0178	0.581	-9,05	33.Z	12.68	0.00177	0.000180	5.125	14.85	0.0292				15.03	0.00170	4. 493.455
0.057	14421	0 3776	0.630	-8.47	42.0	13.27	0.00177	0.00.130	3,170	15.52	0.7398	0.00	-1.10	71.42	1.24.02		
2.012	144 90	0.0223													18 74	0 00132	0.0.33+7
				-7.94	53.7	13.90	0.00178	0.000096	3,220	16.25	0.6515	_) , 708	-6.48	118.1	13.14	0.00177	0.0000047
J. 092	15.57	0.0261	0.040			16.67	0.00179	0.000078	3.295	17.11	0.0691	0.746	-5.65	158.4	15.57	0.00172	0.000042
0.117	16.15	0.0365	1.00	-!-!	0014	15.17	0.00179	0.003064	0.370	17.75	C+0867	0.775	-5.00	198.7	11+22	0.00100	0.000040
).157	16.94	0+0490	0.698	-0.01			0.00175	0.06.057		18-62	3.1043	J.811	-4.19	239.1	18.03	0.00157	0.000037
0.207	17.71	0.0647	0.721	-5.93	120+1	17.01	0.00146	0.00.152	0 520	19.43	6.1219	3.847	-3.47	279.4	18.81	C.00143	0.063335
3.267	18.73	0.0834	0.769	1 -5+12	155.(10. 72	0.00100	0.000172	1 20	1							
								6 A.A		77 13	0.1395	0.477	-2.72	319.7	19.49	0.00125	0.060032
1.332	19.77	0.1037	0.812	-4.09	193.6	17.65	0.00190	0.003348	J. 343	20.11	A 1571	0.004	-2-13	367.1	20.09	0.00104	9.001058
1.417	26 .81	0.1271	0.855	-3,15	237.4	16.56	0.00125	0.00043	2.010	20.15	3747	- 011	-1-54	475.4	20.68	0.00083	4,400.25
4.482	21.78	0.1506	9.89	-2.29	281.1	19.45	C. 00099	0.303337	3.745	21.35	5 1002	A 047	-3.85	454.2	21.37	0.00858	0.000019
	77 47	0.1740	0.929	-1.54	324.8	2-1+ 20	0.00075	დ. მსდი ჰა	0.845	22.06	0.1982	0.467	-3.07	607 0	21.85	0.00637	4.444.13
	22.00	0 1074	0.963	-0.82	365.6	20,92	0.00057	0.000022	J.945	22.56	(.2217	2.983					
0.032	23. 43	0.1714												*** *	22.17	0.00022	0.063368
		0 3366		-0-60	412.3	71.34	6.00039	0.063316	1.045	22.89	n.2451	0.998	-0.05	2010	22.1	A 00502	0.00.043
0.707	23.90	0.2209		-0.14	470.4	21.69	0.00019	0.403308	1.145	22.95	C.2686	1.100	0.CI	013.3	22.23	0.000008	-0.000009
0.807	24.29	0.2521	0.990	-0.05		21.75	0.00000	0.000002	1.745	22.98	0.2971	1.002	n. C4	N09.2	22.25	0.00000	-0.0000000
0.907	24.35	0.2833	1,00	0.71	524.0	21 74	0.00000	0.0000.00	1, 195	22.94	0.3273	1.100	5 + v ⁽²	749.9	22.22	0.00000	nº 000330
1.(07	24.35	0.3146	2 1.00	0.00	20103												

RUN: 1	21171-3	X=46	. Z.	٦.					RUN: 1	21171-3	X•58.	Z= (n.				
0 1 =	21.98		D1 • '	n.2376	BETA	- 0.353	A D 2	= 1671.	4 TU	71.29		01 = (. 2710	BETA	* 0,330	802	= Z093.
CE/28	6.0019	6	D2 =	0.1635	8	*-C.505	н	= 1.454	CF/28	0,0019	1	D2 =	1888	8	-n.512	н	* 1.435
F F	-0.111.9	ē.	nc = 1	5.3687	P+	 0.003 	G	 7.052 	÷	-1-00-19	Å	DC = 1	6.1973	P+	- 0.003	6	• 6.933
5 2	-0.2545	-04	599 .	1.2347	VD+	x-0.022				- 11.16	-04	nag .	4683	UTI 4	*-0.022	•	
× -	-0.2346	-00	011 -		•••					-0. 2100	-00						
Y	U	Y/DC	U/UI	(U-1)[]/U	• ••	U+	T AU	TAULAN	Y	U	Y/DC	U/UI	(U-UI)/U*	۲+	u+	TAU	TAULAN
0.005	2.72	0.(009	0.124	-19+80	2.5	2.8J	0.00185	v.DC1664	3.605	2.59	0.0008	0.122	-20.09	2.4	2.78	0.00180	0.061453
3.007	3.19	0.0013	0.145	-19,31	3.5	3.28	0.00184	0.001538	0.015	2.67	0.1010	C. 123	-20.05	2.9	2.82	0.00180	0.041377
3.669	3. BB	0.0017	0.176	-18.61	4.6	3.99	0.00181	0.001411	0.018	2.68	2-0013	0.126	-19,99	3.9	2.88	0.00180	0.001226
0.011	6.47	0-020	0.201	-18.05	5.6	4.54	0.00179	0.001316	0.010	3.34	0-1016	0.157	-19.28	4.9	3.59	0.00178	Ú. 601245
3.014	5.56	0.0026	0.253	-16.88	7.1	5.71	0.00175	U.OC126J	0.012	3.97	0.0019	(+186	-18.61	5.8	4.25	0.00175	0.001370
3 877	4 36	0.0032	A - 289	-16-17	8.6	6- 52	0.00172	0-0-137		4 71	6 6 6 7 7	a	-17.87	6. B	5.05	0.00177	0-0-1310
3.011	0.00	0.0007	3 235	.15 57	1 1 1	7 67	0-00168	0.001002	1.014		0.0023				5 77	0 00170	0.001265
0.020	1.31	0.0037	0.335	-17402	13.1	5 6 6	0.00164	5 700937	6.016	5.33	0.0726	0+221	-17.14			0.00140	0.001203
5.024	8.35	0.1045	0.380	1 1	12+2	0,20	0 00160	0.000032	5.018	5.87	5.0029	0.216	-10.20		0.31	0.00100	0.001215
0.030	9.51	0.056	0.433	-12.82	1242	9.75	0.00166	0.000034	0.C21	6.64	0.0734	0.315	-15.74	10.2	7.13	0.00165	0.001044
0.042	11.62	0+0078	0.501	-11.27	21.3	11.33	0.00198	0. 303373	ū.024	7.48	c.r039	0.351	-14.84	11.6	8.03	0.00162	9.003419
3.057	11.95	0.0106	0.544	-10.31	28.9	12.29	0.00155	U.JUJ227	0.028	8.40	0.1045	3.395	-13.85	13.6	9.02	0.00158	0.006824
3.077	12.87	0.0143	0.586	-9.36	39.0	13.23	0.00154	J. U(JJ 42	0.634	9.53	6.0655	0.448	-12.63	16.5	10.24	0.00154	0.30.626
1.102	13.43	C. 0190	7.611	-8.79	51.7	13.81	C.00156	0.000093	0-062	10.50	3.(068	7.493	-11.59	20.4	11.28	0.00151	0.003436
0.142	14.27	0.7264	2.646	-8.00	71.9	14.59	0.00159	4.003264	3-054	11.34	0.(787	r. 533	-12.69	26.2	12.18	0.00149	0.063279
J. 202	14.85	6.0376	0.676	-7.33	102.3	15.26	0.00162	0.003347	1.069	12.09	0.0111	0.568	-9.48	33.4	12.98	0.00148	6.000178
0.767	15.48	0.0488	0.704	-6.69	132.7	15.91	0.00165	0.000040	1 640	13 87	0.0144	1.614	-9-15	43.1	13.82	0.00147	0.000117
5 327	16.12	0.0409	0.711	-6.03	165.7	16.57	0.00166	0.000036		12.00	0 0197	1. 67B	-8-50	57.7	14.37	0.00149	0.000077
0.327	10.12	E 6740	0 741	-5.39	203 7	17.20	0.00166	0.0000133	0.119	12.30	0.0192	0.020	-4. (0)	77 1	16 86	0.00151	0.003056
3.432	10.13	C. C. C. 47	0 704	-4.45	256 3	17 04	0.00160	0.0000000	3.159	13.83	C+1.257		-0.1		14.67	0 00154	1 76.1740
3.502	1/+ 40	0.0435	0.794		207.3	10 54	0.00151	0.0000000	.). 219	14.49	0.0353	C. 681	- / - 31	100.2	12.31	0.00154	0.303036
0.577	18.04	0.1075	0.421	-4.1.2	292.5	10.24		0.000327	3.284	15.04	0.0458	C . 195	-6. /1	13/01	10.17	0.00137	0.000000
1-652	18.57	6.1214	0.845	- 3. 51	337.3	19.08	C.00140	0.00328	1. 159	15-61	0.0579	0.733	- 6- 10	174.7	16.77	0.00158	0.003.31
3.777	19.11	0.1354	948.0	-7-96	368.3	19.64	0.00127	0.000327	5.377	16 07	0.0700	1.755	-5-61	210-4	17.26	0.00158	0.000029
	10 47	0 1494	d. 893	-7.63	406.3	27.17	0.00112	0.003.26	3.454	16 76	0 0647	0 794	- 6 88	258.B	17.98	0.00156	0. 064427
1 052	20.24	0.1480	3.971	-1.79	457.0	22.80	0.00069	0.000023		17 23	3 1023	0.812	-6.30	36 7. 3	18.57	0.00150	U- UBDL 26
3.972	20.24	C 1944	1. 0/0	-1.16	507.7	21.66	0.00067	4.000119	1.634	17.27	0.1025	0.012	-1 41	36 F A	10.24	0.00162	0.001126
1.002	264 80	0.41000	0.747	-1010				•••••••	2. (34	17.93	0.1184	0.042	-3.01	33360	17023		
1.102	21.37	0.2053	J. 972	-3.62	558.3	21.97	0.00048	0.003015). 859	18.62	0-1386	0.875	-2.86	416.4	20.01	0.00128	0.000.23
1.202	71.69	0.2239	6.987	-0.30	669.U	22.30	0.00031	0.000010	1.086	19-28	0.1568	6.966	-2.15	477.0	20.71	0.00108	0.000.20
1. 30.2	21.88	0.2425	0.995	-0.11	659.6	22.49	0.00017	0.003336	1 100	10 05	5.1789	3. 635	-1.50	537.6	21.37	0.00085	0.00.17
1 40 7	21.03	0. 2611	1.000	-0.01	71 3. 3	22.59	0.00009	0.003303	1.250	20 64	0 7617	0.945	1. 81	610.3	22.06	0.00057	V. JUJUL3
1 457	77 03	3.2001	1.031	1.07	786.3	22.41	C.00000	-0.0LUGU1	1.279	20.24	0.2032	005	-0.33	443.0	27.54	0.00034	0.0000.09
1. 552	22.03	1+5941	1.001			22.001			1.409	50143	.1.2214	0. 955	-0.33	00360	224.74		
1.702	21.98	0.3170	1.000	6.00	862.3	22.59	0.00000	0.000000	1.559	21.22	0.2516	0.997	-0.08	755.7	22.79	0.00017	J. 0000J5
									1.709	21.29	0.2758	1.000	3.00	828.4	22.87	0.00007	0.000002
									1.979	21.3	0.3680	1.001	0.01	925.3	22.98	0.00000	-0.000001
									2,100	21.24	0.3403	1.500	3, 33, 1	322.3	22.87	0.00000	0.0000000
									2.1.77								

		N - 77									V-87	7	.				
KUN: 1	211/1-3	X#70	• •	•					KU4: 1	21171-3	A-07.		•				
UI =	25.73		01 =	3.3079	BETA	= 0.321	ROZ	 2332. 	UI *	21.28		D1 × ′	• 3429	BETA	- 0.325	RDZ	2573.
CF/2=	0.0016	7	02 =	J. 2160	8	=-n. 5Z3	н	* 1.425	CF/2=	0.0619	4	D2 = (. 2436	в	-0.535		- 1.407
F =	-0.0009	8	DC =	7.1155	P +	- 0.005	G	= 6.895	F .	-0.0009	8	DC = 1	.9986	P+	 0.002 	6	· 0./22
К =	-0.1818	-06	nç9 =	1.6713	¥0+	*-0,023			< •	-0.165E	-06	099 = 1	. 9825	¥0+	*-/1+/23		
۲	U	Y/DÇ	U/U	(0-0[)/0	* Y+	U +	TAU	TAULAN	Y	U	Y/DC	U/U1	10-01170	• ¥+	U+	T AU	TAULAM
n. or 9	3.18	6.0013	6-153	-19.57	4.2	3.54	0.00174	0.001424	0.010	3-45	0-0513	0.175	-19.36	4.5	3.97	0.00169	V.DL1429
1.011	3. 71	0.0015	0.179	~18.9P	5.1	4.13	0.00172	0.60.383	0.012	4.16	0.0015	V. 275	-18.54	5.4	4. 79	0.00165	0+0+1349
0.013	4.71	0.0018	3.203	-19.42	6.1	4.69	0.00170	0.001342	1.014	4.63	0.0018	v.777	-18.04	6.3	5.29	0.00164	U. ÚCI 269
3.015	4.85	0.(021	C.234	-17.71	7.0	5.40	C.CE167	6.061264	3.616	5.17	0+0020	0.255	-17.38	7.2	5.95	0.00162	0.001193
0.017	5.53	0.0524	0.265	-15.98	7.9	6,13	0.00164	ũ.0013⊷a	0.618	5.65	6.0023	0.279	-15.83	8.2	6.5C	0.00160	9.001120
						4 74	0.00143	0.051.49			5.5636	. 132	-14 78	۰ ۵	7-05	0.00158	0.001147
3.019	5.05	0.0021	0.292	-10.32	6.9	7 78	0.00102	0.001240	3.023	0.13	0.1078	0 174	-15.72	11.1	7. 60	0.00156	4.001634
0.021	6.53	0.0030	0.313	-13.01	7.0	0 30	0.00156	6 001174	0.022	2 11	0.0028	340	-14.03	11.3	R. 41	0.00153	0.000936
1.024	(0.0034	0.303	-11.07	13.1	9,14	0.00153	0.000714	1.(25	7 87	0.035	1.348	-14.28	12.7	9.05	0.00151	0.000815
J. 126	0+23	0.0000	A 637	-13.00	15.9	10.11	0.00150	0.04.576		9 50	0.0060	0.419	-13.55	14.5	9.78	0.00148	U. UUU672
1.034	4.61	0.1040		-1.24					3.0.32	0.0							
0.046	10.22	0.065	0.493	-11.72	Z1.5	11.39	C.0C146	0.06348	0.038	9.29	0.0048		-12.64	17.2	10.69	0.00145	6.003512
3.059	10.99	0.0483	0.530	-10.97	27.6	12.74	0.00145	0.000238	1.046	10.02	3.0658	(.494	-11.80	20.8	11.53	0.00143	0.UUL374
3.079	12.03	0.0111	Ú.587	-9.70	36.9	13.41	0.06142	0.301149	-+(57	10.74	C.(071	C.527	-10.98	25.8	12.15	0.00141	0.00.260
3.109	12.57	0.0153	0.606	-9,10	50.9	14.01	0.06142	6.00.092	3.072	11.38	0.0390	5.561	-16-23	32.6	13.19	0.00134	0.000114
5.154	13.22	0.0216	0.638	-8.37	71.9	14.74	0.00143	u.000.5d	5+1.95	11.99	0.0115	7.591	-9.54	41.7	13.79	0.00138	0.005117
0 104	17 43	0.0287	0.660	-7.85	95.3	15.76	0.00146	tes David L 6 3	117	12-66	0.0171	4 . 624	-8.77	62.0	14.56	0.00138	0.0.0.066
3 36.6	14 76	0371	0.688	-7.73	123.3	15.90	0.00148	3.000036	1. 197	13.36	0.0246	0.659	-7. 76	89.2	15.36	0.00139	0.003343
110	14 49	1.0447	0.708	-6.75	153.7	16.36	0.00150	Ú- ÚUÚC 31		13.91	9-6340	1.686	-7.33	123.2	15.99	0.00141	0.00.033
0.606	15.14	U-055A	0.730	-6.74	188.7	16.87	0.00151	6.001328	. 347	14.32	6.0434	0.705	-5.86	157.1	16.47	0.00143	0.000.28
L.479	15.65	0.6673	0.755	-5.56	223.8	17.45	C.CC151	0.000027	L.422	14.74	0.1528	6.727	- 6. 37	191.1	16.96	0.00145	0.000326
														335 A	17 44	0-00145	0.0.124
3.554	15.97	0.0779	0.770	- 5. 31	258.8	17.79	0.00100	0.00.025	2.497	15.10	0.0621	0.798		225.0	18 00	0.00144	0.0000022
0.654	16.57	6.0919	0.149		307+7	18+4/	0.00143	0.000024	6.597	13.65		0.704	- 4 76	115.6	18.56	0.00140	0.000321
3.754	17.12	0.1060	0.828		332+3	194 00	0.0(135	0.000022		10.14	0.0004	2 617	-4.39	360.9	18.94	0.00135	0.000019
3.854	1/.55	6 1361	3.840	- 2 97	445 T	27.14	0.06124	0.10.120	6. 807	10.47	0.1121		-1.9	46.6.1	19.43	0.00131	0.000019
0.954	10.01	0.1341		-24 77		20010			5 0 7 1	10.07							
1.079	18.56	0.1516	0.895	-2,42	504.1	20.69	0.00108	0.000119	1.022	17.43	7.1278	n.859	-3.28	462.7	20.C5	0.00123	0.00018
1.204	19.13	3.1692	0.923	-1.79	562+5	21+32	C.CC089	ũ.Qyjj17	1.147	17.84	C.1434	_ ∋ ₄880	-2.81	519.3	20.52	0.00113	0.0031B
1.354	19.67	0.1903	3.949	-1.19	632.6	21.92	D.OC065	0.000013	1.2.7	18.47	0.1621	0.911	-2.08	587.3	21.25	0.00099	J. 01. 016
1.504	20.17	0.2114	0. 573	- 7.63	702.7	22.48	0.06044	0.000010	3.447	19.60	C.1809	0.937	-1.48	655.Z	21.85	0.00080	0.001313
1,704	20.59	0.2395	0.993	-0+15	796.1	22.95	0.06022	0.000065	1.597	19.44	0.1597	n.958	-7.98	723.1	22.35	0.00056	0.000311
	78 66		3 6 8 4	-0.10	889.5	23.01	0.0005	a. 000 303	1 737	10.02	3.2767	0.982	42	813.6	22.91	0.00031	0.00007
2.154	20.74	0.2957	1.007	C. (4	981.	23.14	0.00800	0.003001	1.007	21.09	0.2497	6.991	-0.22	904.2	23.11	0.00011	0.060005
3.314	27.75	3.3738	1.301	0.73	1076.4	23.14	C.C.C.COC	0.0000.1	2,197	20.29	0.2747	1.000	0.01	994.8	23.33	0.00004	0.003332
2.5/.4	20.73	0.3519	1.000	0.00	1169.9	23.11	0.00000	ú. 000000	2.497	20.31	6.3122	1.001	0.03	1130.6	23.36	0.00000	-0.003339
									2.797	21.28	C. 3497	1.000	0.00	1266.4	23.33	0.00000	0.0000000

AUN: 1	21171-3	L X=90	· 2=	٠.				RUN:	10372-3	X= 2	. 7-4	·.			
UT = CF/2=	19.96	11	D1 -	0.3738 0.2669	BE TA	= 0.354 =-0.541	RD2 = 2774. H = 1.400	UI CF/2=	29.27	3	01 = 3 92 = 0	0.0517 1.0340	BET A	- 0.116 0.341	ROZ = 515. H = 1.524 C = 6.353
F = K =	-0.0004	-06	0C • D99 •	2.1015	v0+	*-0.023	6	k -	-0.4338	-06	099 -	.2985	vo+	*-0, 018	9 - 0.000
۲	U	¥/DC	U/UI	(0-01)70	* Y+	U+	TAULAN	۲	υ	Y/DC	1/01	(0-01)/04	• • •	U+	T AUL AM
0.007	2.60	0.0008	0.140	-20.20	3.0	3. 29	0.001681	0.004	5.77	0.0045	0.197	-14.83	3.5	3.64	0.002520
3.009	3.45	0.0010	0.173	-19.43	3.9	4.07	0.001533	3.005	5.63	0.0055	0.227	-14.29	4.4	4.19	0.062331
3.011	3.99	0.0012	0.200	-18.80	4.8	4.70	0.001385	0.006	7.58	0.0466	9.259	-13.69	5.2	4.79	0.002141
3.013	6.44	0.0015	0.223	-18.26	5.7	5.23	0.001256	3.007	8,56	0.0076	3.292	-13.(7	6.0	5.40	0.001944
0.015	5.19	0.0017	C. 255	-17.51	6.5	5.99	0.001231	0.008	9.44	¢.^087	0.323	-12.52	6.8	5.96	0.001871
0.017	5.49	0.0019	0.275	-17.04	7.4	6.46	0.001147	0.009	10.18	0.097	0.348	-12.05	7.6	6.43	0.00175
0.020	6.23	0.0023	0.312	-16.17	8, 8	7.33	0.001051	0.011	11.68	0.0114	0.399	-11-10	9.3	7.38	0.001475
0.024	7.05	0.0027	0,353	-15.20	10.5	8.30	0.000880	3.013	12.99	C.0139	0.444	-10.27	10.9	8.20	0.001234
0,030	8.12	0.0034	0.407	-13,94	13.2	9.56	0.000679	0,015	13.96	0.0160	3.477	-9.66	12.6	0.01	0.001354
0.039	9.29	0.0044	n.465	-12.56	17.2	10.93	0.006452	3.017	14.88	0.0181	0.449	-9.08	14• Z	9.39	0.000928
D- 052	10.21	0.0059	0.512	-11-47	22.9	17.07	0.004290	3.025	15.88	0.0212	7.543	-8.45	16.7	10.02	G.OUJ754
6. 647	10.41	0.0076	0.541	-10.77	29.6	12.72	0.00.190	0.023	16.88	0.0244	0.577	-7.92	19.1	17.66	0,000632
3.087	11.47	0.0099	0.575	-9.99	38.4	13.50	0.000125	0.026	17.80	0.0275	0.608	-7,24	21.6	11.24	0.363523
6.117	12.02	u.0133	0.602	-9.35	51.7	14.15	0.000682	3.030	18.52	7.7317	n. 633	-4.78	24.9	11.49	0.000418
0.152	12.51	C.0173	0.627	- 8. 77	67.2	14.72	U. 0u2659	D. P34	19.24	0.0359	0.657	-6.33	28.2	12.14	0.001332
9.212	13.10	0.0241	0.656	-8.08	93.7	15.42	0.003641	0.040	19.92	0.0422	0.681	-5.90	33.1	12.58	0.003253
3.287	13.57	0.0327	6.680	-7.52	126.9	15.98	0.00032	3.046	27.45	0.0484	A.699	-5.56	39.0	12.92	0.00219
D. 362	14.02	0.0412	3. 702	-7,00	160.1	16.50	ū+0u3327	0. N54	21.17	0.0568	0.723	-5.11	44.6	13.37	0.00.171
0.437	14.41	0.0497	0.722	-6.54	193.3	16.96	6.066624	3.064	21.85	t,n673	r.747	-4.69	52.8	13.60	0.303145
0.537	14.91	0.0611	0.747	-5.95	237.5	17.55	0.003022	n.076	25.22	0.4798	7.760	-4.27	62.6	14.71	0.000125
0.637	15.27	0.0725	0,765	-5.52	Z81.7	17.98	0.000621	0.(93	23.36	3.7976	ñ.798	-1.71	76.6	14.75	6.0.0108
3.762	15.80	0.0867	0.791	- 4. 91	337.1	18.59	0.000320	0.113	24.22	C.1185	n. 828	-3.19	93.0	15.29	0.003095
0.887	16.35	0.1010	0.819	-4.24	392.4	19.25	0.001019	3.13R	25.23	0.1447	0.862	-2.55	113.5	15.93	0.000083
1.012	16.81	0,1152	0.842	-3.71	447.7	19.78	0.00.018	9.163	26.14	1708	n.893	-1.97	134.1	16,50	0.000072
1,162	17.36	0.1323	0.870	-3.07	514.0	20.43	0.060016	0.198	76,91	6.1970	0.91a	-1.40	154.6	16. od	0.000002
1.312	17.85	0.1494	0.894	-2.49	580.4	21.00	0.000015	7.213	27.57	0.2233	1. 942	-1+ 77	175.1	17.49	Ú. CUJD31
1.512	18.45	0.1721	0.924	-1.78	668.9	21.72	0.000013	3.238	20.14	2.2493	0+691	-0.71	195.6	17.76	6.00004.
1.912	19.45	0.2177	0.974	- 0. 6P	845.9	22.90	0.00333E	7.273	28.74	7.2859	0, CA2	-0.34	274+4	18.14	0.000321
2.112	19.78	0.2405	0.991	-0.22	934.3	23.28	0.000005	3.313	29.11	0.3277	0.095	-7+3C	257.2	18.34	C.000016
2.312	19.95	0.2632	0.999	-0,02	1022.8	23.48	0.00003	3.358	29.27	2.3748	1+005	P. (P	294.1	18.48	3.00000
2. 512	19.98	0.2860	1.001	0.02	1111.3	23.52	0.000001	>. 433	29.33	0.4532	1.001	0.02	355.7	18.50	-0.000003
2.812	19.96	3.3202	1.000	0.00	1244.1	23. 50	0.000000	0.508	29.27	9.5317	1.140	C. 10	417.3	14.48	0.000000

RUN:	10372-1	X=10		n.					RUN	17372-1	×=22	. 7.	·.				
					8574	- 0.438			ut =	24.43		01 -	3.1517	SE TA	- 0.427	RD2	1271.
01	20.94	~		0 0403		- 1.378	Ĥ	1.511	CF/2=	1.0020	4	02 *	5,1023	8	=-0,388	н	- 1.505
CF72*	0.0023	0		4430		- 0.007	6	. 6.927		-0.0001	9	OC =	3. 3470	P+	+ 0.035	G	• 7.439
	-3 8315	-04	ndd - /	1.4692	vn.		Ũ		к.	-0.4558	-06	709 -	n.7647	Au+	*-0.018		
	-1.0110	-00			10.	• • • •											
¥	U	Y/DC	U701	10-01170	• Y+	13+	TAU	TAULAM	Y	U	Y/DC	1/01	(0-01)/0*	٠.	U4	TĂŬ	TÂULAN
1.005	5.20	0.0027	0.193	-16.53	3.4	3.95	0.00226	0.002143	1.095	3.52	0.0315	7.144	-18.56	2.9	3.19	0.00195	0.001521
3.036	5.87	0.0032	3.218	-16-73	4.1	4,47	0.00225	0,001933	0,006	3.77	C.0018	0.154	-18.74	3.4	3.42	0.00145	0.001720
3.007	6.46	P. PC39	0.240	-15.5A	4.8	4.92	0.00224	J. 001723	0.077	4.24	2.0021	3.173	-78.32			0.00194	9.901518
0.008	7.08	0.0043	0.263	-15.11	5.4	5.38	0.00223	U. UCI 514	2.038	4.59	9+0024	0.192	-17.91			0.00193	0.001489
0.019	7.43	0,0048	0.276	-14,84	6.1	5.65	0.00223	0+UU1450	0.010	5.65	0,0030	0,231	-17. "4	5.7	5.12	0.00141	0+0-450
0.011	8.61	0.0059	0.319	-13.95	7.5	6.55	0.00221	J. 601329	0.012	6.51	0,1036	0.766	-16.24	6.9	5.97	0.00190	0.361323
2.013	9.44	0.0070	0.358	-13.15	8, 9	7, 34	0.00219	0.001217	3.014	7.43	C-C742	C. 204	-15.42	8.C	6.74	0.00188	0. CL1168
0.015	10.44	0.000	0.389	-12.52	10.2	7.98	0.00218	0.001368	0.017	B, 4:*	0.0051	0.344	-14,54	0,7	7.62	0.00186	0.001327
3.018	11.64	0.0097	0.432	-11.63	17.3	8.86	0.00216	0.003939	0.027	9.30	1.(06)	0.361	- 3 3. 72	11.4	8.44	0.00184	0.003682
0.021	12.71	0.0113	0.472	-10.87	14.3	9.67	0.00214	0. C vu 741	n , n 23	14.03	P. CC69	5.410	-33.67	13.1	9.09	0.00183	0.000151
3.074	13.34	6-0129	0-696	-10.33	16.3	10.16	0.00214	0.000516	0.026	10.81	0.0078	2.442	-12.36	14.9	9.80	0.0018Z	0.002656
0.027	14.15	0.0145	0.575	-9-73	18.4	10.77	0.00213	0.000511	0.030	11.55	r.r.90	3,473	-11.58	17.1	10.47	0.00181	0.000532
0.021	14.70	0.0144	0.546	-9-31	21.1	11.19	0.00212	0.003433	0.035	12.25	r.105	0.501	-11.05	20.0	11.11	G. COLBI	J. 000416
1.037	15.54	0.0199	0.577	-9.67	25.2	11.93	0.00212	0.100307	6.(4)	17.97	0.0122	0.531	-17.30	23.4	11.77	0.00180	C+303315
3.045	16.24	n.0241	0.603	-8.13	30.7	12.36	0.00211	0.303225	3.049	17.51	0.0146	1.553	-0.63	2 R. O	12.25	0.00181	0. 363231
	17 01	0.0205	0. 632	-7.54	37.5	12.95	0.00211	0.000174	3.661	14.23	0.0182	3.582	- 9. 25	34.9	12.91	0.00162	0.003161
0.055	17.42	0.0350	0.654	-7.09	45.6	13.40	0.00210	6.00.137	0.076	14.86	0.0227	9.60B	-8.68	43.4	13.48	0.00183	0+00120
0 082	16.32	0.0440	C.680	-0.56	55.9	13.94	0.00208	U. 0ÚU 113	0.(94	15.43	0.^281	0.630	-P.10	53.7	1 3. 97	0.00184	0.000047
3.102	10.03	0.0547	0.706	-6-02	69.5	14.48	0.00204	6.013396	3.119	15.91	C.C356	3.651	-7.73	64.0	14.43	0.00186	0.0100 18
3.127	19.84	0.1681	0.736	-5.40	96.5	15.09	0.00196	0.000085	3.154	16.79	r.n467	687 ،	-6,93	88. ^	15.22	C. CO187	3.065655
A 167	20.70	0 0442	3.749	-4.74	176.9	15.75	0.00184	3.600077	0.189	17.41	0.0565	0.713	-6.37	108.0	15.79	0.00185	v.000J59
A 167	20.10	0.0072	0.801	-4.09	127.4	16.41	0.00170	0.003371	3.234	19.12	C. 0699	3.742	-5,73	133.7	16.43	J.00180	v. v03354
0.107	27.36	0 1144	3.415	-1.49	147.8	17.01	0.00153	J. 0600c 6	n. 284	18.9	C. 7849	7. 774	-5.02	142,3	17.14	0.00171	J.JLJJ50
0.217	13 17	A 1367	0.860	-7.94	171.7	17.63	0.00132	0.343061	D. 334	19.67	C.C958	· · · 805	-4, 32	19~.9	17.84	0.00159	(.)(0048
7,292	24.06	n.1567	0.893	-2.19	198.9	1 9. 39	0.00108	u, 000054	٦, 384	20.38	0.1147	r.934	-3.49	219.5	19.48	0.00144	u.006046
	34 BE	A 1781	0.073	-1.59	226.2	18, 91	0.00086	U= 303346	3.434	21.07	0.1297	n.867	-7,05	248.0	19.11	0.00128	6.000043
0.332	24.07	0.1/01	0 050	-1-02	253.4	19.47	0.00070	0.060037	D. 489	21.78	0.1461).#97	-2.40	279.5	19.75	0.00109	0.000340
11.572	27.00	0.1990	A 678	-0.51	287.5	19.99	0.00052	U.DC2326	1,549	27.57	C.1640	n. 923	-1.70	313.8	20.46	0.00091	0.030035
0.422	20.21	0 1837	0.001	-0.18	321.5	20.31	0.00037	4. 300017	0.679	23.23	1.1820	0.451	-1.10	34 A. I	21.04	C. 00076	3.363328
0.527	26.90	0.2827	0.999	-9.03	159.N	20.47	0.00020	0.000008	0.684	23.90	P.2044	7,978	- ** 46	39^.9	21.68	C. 00060	C. L 00019
A 48-	14 07		1.000	0.01	412.1	21.50	0.00000	-0.063061	3.759	24.75	0.2268	0.053	-0.16	433.8	22.00	0.00044	0.000012
0.672	44 84	0.3230	1.000	0.00	441.2	20.49	0.00000	0.000000	5,859	24.45	0.2566	1.001	A. ^2	437.9	22.18	0.00025	0.000005
0.0/7	/0 + Y4	4.3032		·• 00					J. 959	24.44	A.2865	1.001	0.43	548.1	22. 1A	C.00009	0.000031
									1.059	24.47	5.3164	1.001	7.63	605+2	27.19	0.00000	-0.0033-3
									1,159	24.43	n. 3463	1.000	n. ee	662.4	22.16	c.00000	0.0000000

RUNI	1 3 3 7 2 - 1	X=58	. Į=	.						RUNE	10372-1	x = 7 ^	, Z= -	·.				
ат ж	21.50		nı •	7. 2948	3F T 4	= 0.396	P D Z	= 2262.			21.94		a1 .	1. 1102	BET	a A. 386	03	
C.F./2.	0.0017	6	D7 •	0.2030	9	=-7. 192	<u>ч</u>	* 1.452		F/2x	0.0017		D2 + 1		8	-0.297	. н	. 1.444
F	-0-0004	9	DC =	7.0291	P+	* 0.003	. 6	* 7.475		F	-0. 10 06	.7	DC + 1	4.2064	ĕ.	- 0.003	i č	- 7 444
	-1. 212F	-06	599 *	1.5747	V0+	*-D.F16					-0 1816	- 6 4	noo - 1	7947				- ******
													0,, -	• • • • • •				
۲	U	Y/00	JULE	(IHUI)/U	* Y+	U+	TAL	TAULAN		Y	U	¥700	0701	(0-01)70	·* Y+	41	TÂU	TÁULAM
0,006	2.57	0.0009	9+129	-27.99	2 . R	Z. 85	0.00169	J. JU1529		0.018	2.87	6.0010	6.13A	-20.95	3.6	3, 74	C.C0163	0.001377
0.007	2.93	0.0010	0.135	-2°.67	3.3	3.22	0.00168	1. UL1489	1	0.010	3.44	0.0012	0,1/4	-21-21	4.5	3. QR	0.00162	0.301295
3,019	3.36	0.0013	7,156	-20.12	4.2	3.72	0.00167	0.001638	,	510.47	3,99	0.0015	0.195	-19,50	5.4	4.51	C.CC160	J. L C1213
2.011	4,05	0.0516	0.168	-19.35	5.1	4.49	0.00166	0.001208		0.014	4.45	0,1017	3.713	-19.11	A. 3	5.16	0.00159	J. Jul 173
0.013	4.67	C+C018	0,218	-19.64	6.1	5.20	0.00164	0.001222		. 117	5.23	0.0021	1.751	-18,15	7.6	4. 74	0.00157	v. UJ1124
0.016	5.70	0.0623	0.265	-17.57	7.5	6.32	0.00161	0.001140			5.95	C.C.174	D. 284	-17-32	9.0	6.89	0.00156	J. Jul 525
3.019	6.23	0.0027	6.290	-16.93	8.9	A. 91	0.00160	9.001363	2	0.623	6.83	0.0075	3.326	-16.30	10.3	7.83	0.00153	3. 363933
0.022	7.97	0.0031	2.329	-16.00	10.3	7.84	0.00158	0.003948	ć	0.027	7.67	1.(911	3. 366	-15.33	17.1	9. 96	0.00151	0.01.778
2.025	7.77	C.0036	0.361	-15.23	11.7	8.51	0.00156	0.003938		1. 531	8.23	0.0038	3, 391	-14.72	17.4	9.47	0.00150	0.000651
3.028	8.52	0.0040	0.396	-14. 19	13.1	9.45	0.00155	0.003759	i	. 7 36	A. 97	6.0044	7.428	-17.93	16.1	17.37	C. 0C149	0. 303510
3.032	9.04	0.01.46	G. 420	-13.82	15.0	10.02	0.00154	0.000602		0.042	0.45	0.0351	r. 457	-13.27	18.8	17.92	0-00148	6.061397
0.037	9.72	0.1053	C. 452	-11.07	17.3	10.77	0.00152	0.00.474	ć	1.069	12.13	0.0060	1.484	-12.48	22.0	11.71	0.06147	6. 563 320
7.043	11.31	0.0061	7.485	-12.40	20.1	11.44	0.00151	0.000355		0.657	10.62	0.1769	1.507	-11.02	25-6	12.27	0.00166	0-1.00243
0.050	10-67	2.2071	0.497	-11.9*	23.4	11.85	0.00151	4.000287		693-0	11.09	0.0044	0.530	-11.38	39	17.82	0.06146	0.608186
3.058	11.39	0.0083	0.530	-11.71	27.1	12.63	0.00150	1.24223	2	.687	11.83	0.0105	1.565	-15.52	39.0	11.68	0.00146	0.003121
0-070	11.72	C-0122	0.545	-10, 85	32.7	12.99	0.00151	0.003166	6	1.112	12.15	4.1136	0.580	-10.16	50.2	14.04	0.00147	0.046685
3.088	12.51	3.0125	0.592	-0.97	41.1	13.47	0.00151	0.005117	č	147	12.79	0.0179	3.411	-9.41	45.9	14.78	0.00148	0.000000
0.120	13.05	0.0171	0.677	-9.17	56.1	14.47	0.00153	0.202373		217	13.43	0.0252	0.642	- 8- 67	97.8	15.52	0.00151	0.000163
1.161	13.54	0.0778	0.530	-8.87	74.8	15-02	0.00156	4. 40. 354	ĩ	1. 282	11.00	0. 0344	1.468	-8.03	126.5	14.17	0.00155	0.000000
0.220	14.15	0.0313	0.659	-B.14	102.8	15.70	0.00160	0.003540	č	.357	14.62	3.0435	874.5	-7, 10	16.1	16.89	0.00158	0.36334
5.285	14.75	0.0405	0.686	-7-48	133.7	16-36	0.00163	0.000535		1:457	15 15	0.0557	3 774	-6.60	205.0	17.51	0.00156	0.005527
7.360	15.35	0.0512	1. 712	-6.97	168.3	16.97	0.00167	0.000037	-	. 557	15.84	7.7679	0.757	-5. ap	740.4	18.31	0.00158	01000027
0 415	15 77	3 7419	0.731	-6.41	273.3	17.41	0.00168	0.0.03330		457	14 71	1 4 4 4 1	0 775	- 5	204 2	10 75	0.00154	0.000025
0.515	16.50	D. 0761	0.767	-5.54	250.1	18.30	0.00167	4.043578	,	757	16 81	- Fazz		4.77	330.5	19.47	0.00151	1. 360324
1.635	17.13	0.0903	n.797	-4.85	796.B	18.99	0.00162	J. 603027	č	1.857	17.34	0.1044	7,837	-4,11	384.4	20.08	0.00144	0.000022
3.735	17.73	0.1066	0.825	-4. IB	343.5	19-66	0.00152	4-040-26		1. 857	17.86	0.7166	0.851	-1.55	629.7	20.64	0.00134	
0.835	18.37	0.1198	3.852	-1.51	101.1	20.31	0.00140	0.000024		687	10 44	C 1318	0 891	- 7 . 84	105 3	71 77	0.00110	0.0000021
3 635	18.03	0.1330	0.880	-7.35	417.0	20.99	0.00125	0.000023	1	737	10.00	2.1471	0.007	-7. 76	841.1	21.05	0.00119	
0.755	10 60	A 163P	5 611	-7.11	405.4	71.71	0.00103	0.0000000		367	10.40	3 1454	0 0 7 4	- 1 55	400 4	11 44	0.00078	0.0000010
1.101	17.50	0.1484	0.411	-2413	553.0	11 20	0.00070	3, 3, 3, 7		507	1-+00	7.1074	0.50	-24.72	475 0		0.00012	0.003315
1,155	20.15	0.1000	··• • 3 •	-,.40	993 * 4	22+39	0.00014	0.003311	1	• 2.17	20.04	0.1836	0.449	-:*• C.H	015.9	23421	0.00048	0.000012
1.310	20.72	0.1864	0,964	-0.97	612.3	22.97	0.00055	0.000013	1	.657	23.52	0.2019	r. 080	-P.48	743.1	23.72	0405028	C. 0000. 8
1.460	z] •19	C+2077	0.985	-0,35	68Z.4	23.49	0.00032	0.000009	1	.857	ZD. 84	0.2263	0.996	-C 13	83Z.B	24.09	0.00010	0.003305
1.610	21.42	n. 2200	0.996	-C./4	757.5	23.75	0.00015	0.000005	2	• 157	Z0.95	0.2537	149(1	n+01	922.5	24.21	C.CC00C	0. 303302
1.750	21.50	0.2504	1.000	-0,00	*****	23.84	0.00005	0.003322	2	+ 257	2C.94	7.7750	1.000	n. 96	101545	24.19	0.00000	0.000000
1.900	21.53	0.2703	1.000	e*ue	484.0	23.84	0.00000	0.000300										

FUN:	10372-1	X * 34	• Z•	o.					RUNI	17372-3	X=46.	2.	•				
111 =	23.06		D1 =	0.2005	SE TA	• 0.408	802	= 1o24.	ы т -	22.12		01 = 7	. 2534	RETA	= 1,409	R D 2	= 1973.
CF/2#	0.0019	1	D2 #	0.1359	8	-C.368	н	= 1.475	CF/2=	0.0018	2	D2 * 1	.1771		+-1.390	н	= 1.+72
F *	-0.3007	4	DC =	4. 5902	P+	- 0,004	G	7.377	F .	-0.0007	1	00 = 5	,9412	P+	= 7.003	G	7.517
	-2.3255	-06	199 .	1.0112	V0+	-0.017			K =	-9.256E	-06	D99 + 1	2902	¥0+	=- 1. 017		
7		••															
۲	u	Y/DC	1/01	09-01970	• Y+	U+	TAU	TAULAM	۲	U	Y/DC	6 7 01	10-01170*	۲+	U+	TAU	T AUL AM
0.006	3.42	0.012	d,148	-19.50	7.9	3.40	0.00182	0.361835	0.005	7.69	6.0008	0.122	-20.59	2.4	2.45	0.00175	0.061569
3.017	3.67	D. C14	0+159	-19.75	3.4	3.65	0.00182	0.001767	3.016	2.95	0.0010	3.133	-27.17	7.9	3.12	0.00174	3.031418
2.008	4.18	0.0017	0.181	-18.74	4.0	4.15	0.00181	U.U.1538	3.007	3.10	0.0012	0.146	-20.16	٦.4	3.29	0.00174	0.001267
0.00.9	4.54	0.019	^.197	-18.39	4.5	4.51	0.00180	0.001569	6.038	3.45	0.0013	n.156	-19.79	3.9	3.65	0.00173	0.001146
9.011	5.29	0.0023	229 .	-17.65	5.5	5.25	0.00178	9.301471	3.66	3.71	0.0015	7,167	-1°+52	4.4	3,92	0.03173	0.001219
6.613	6.15	0.(027	0.267	-16.70	6.6	6.11	0.00176	0.001384	3.011	4.31	c.0019	0.195	-18.88	5.4	4.57	0.00171	u.0J1269
3.015	7.02	3.1032	0.304	-15,93	7.6	6.97	0.00174	0.0c1260	0.013	4.96	r.r.722	7,724	-l¤.i¢	6.4	5.25	0.00170	U.JU.249
0.018	7.91	3.0039	0.343	-15.05	9.2	7,85	0.00172	0.001063	3.(16	5,92	7.127	1.267	-17.19	7.9	4.24	0.00167	J. JU1182
3-021	8.92	5.0045	7.387	-14.74	10.8	8. 96	0.00170	0.000870	0.019	6.94	0.0032	1.309	-14.19	٥,3	7.25	0.00165	0+0010+1
8.024	9.45	0.0051	0,410	-13.51	12.3	9.39	0.00169	ù.JJù722	3.023	7.88	(1*vú3a	A.35A	-15.19	11.2	8.35	0.00163	0.000859
0.028	10.17	r.0067	7.441	-12.79	14.4	17.10	0.00168	U. JUC582	3.078	9.07	4+0547	7,419	-13.83	13.7	9. 61	0.00160	6.Juj579
0.034	10.99	0.0073	0.476	-11.00	17.5	17.91	0.00166	0.)01423	0.035	9.91	6.1059	0.448	-12.94	17.1	11.50	0.00159	L.JUJ484
1.042	11.83	P.C091	C.513	-11-15	21.7	11.75	0.00166	U.UL 6348	3.043	16.75	0.1172	0.485	-12.05	21.0	11.39	0.00158	0.060347
0.052	12.51	0.0112	0.542	-17,48	24.9	12.42	0.00166	U. JUL 222	3.053	11.56	0.0089	1.522	-11,20	Z 5.9	12.25	0.00157	0.00240
1.065	13.18	0,0141	3.577	-9,80	33.7	13.19	0.00166	0.000156	0.065	12.11	0.0309	1.548	-10.01	31.4	12.44	0.00157	0.000175
3.683	13.68	0.0180	0.593	- 9. 31	43.1	13.59	0.00168	0.000139	0.082	12.74	0.0134	4.576	-9.94	4^.1	13.51	0.00158	v.ü00121
3.125	14.37	0.0228	7.623	- 4.62	54.6	14.27	0.00170	0.006682	0.107	13.23	0.0186	0.FC8	-9.42	52+3	14.02	0.00160	6.30083
0.135	14.80	0.0293	0.647	-8.70	71.3	14.49	0.00172	3.003354	Q.142	13.78	7.1239	3.623	-9.94	69.4	14.61	0.00163	0.000061
0.185	15.51	5.0402	0.672	-7,51	96.4	15.40	0.00176	0.000053	3.192	14.54	0.0323	1.657	- R. (4	93.9	15.41	0.00167	ປະປະມີບໍ48
0.245	16.32	0.0533	0.708	-5.49	127.7	15.71	0.00177	u.009646	3.252	15.11	3.7 424	0.483	-7.43	123.7	16.11	0.00170	u.JuJJ+1
0. 320	17-15	0-0696	5.744	-5.97	165.8	17.02	0.00174	0.000042	0.327	15.73	0.9553	0.711	-6.78	159.9	16.07	0.00172	0.300037
3.395	18.00	0.0860	0.781	-5.02	216.0	17.89	0.00168	0.000039	0.402	16.45	r. 0677	7.744	-6.01	135.6	17.44	0.00171	U,0 000335
3.470	18.75	0.1023	0.813	-4.28	245.1	19.62	0.00156	U. JUL137	3.5/2	17,22	r.1845	1.770	-5,19	245.5	18,25	0.00164	U. 000033
0.545	19.47	P. 1186	0.844	~ 3. 55	294.3	19.13	0.00140	U+0U0J35	3.6.17	18.CB	C+1/13	÷, 917	-4.78	794.4	19,17	0.00154	3.303331
1.620	20.23	0.1350	0.077	-7,91	323.4	20.08	0.00122	0.046633	3.712	18.85	0.1182	0.P52	- 3. 47	743 . Z	10.00	0.03138	0.013329
0.695	20.94	0.1513	n.=09	- 2. 11	367.5	20.79	0.00101	J. LUJ J29	3.802	19.52	0.1350	C.882	-2.76	397.1	20.69	0.00116	0.605327
2.775	21.49	7.1677	0.932	-1.56	431.7	21.34	0.00679	0.103025	0.902	20.19	r.151A	0.913	-2.75	441.0	21.40	0.00094	0.00024
P.845	22.07	P. 1840	0.057	-7.99	44".B	21.92	0.000641	1.303321	1.012	24.87	7.1687	7, 947	-1.40	489.9	72.04	0.00071	J.00002J
0.945	22.58	3.2358	0.979	-0.48	493.0	22.42	0.00038	0.003014	1.137	21.35	1.1855	1,065	-7.82	538.B	22.63	0.00050	0.0.0115
1.045	22.95	9.2776	n. 695	-^.16	545.2	22.79	0.00023	0.000000	1.27.2	21.71	C.2723	0.991	-^, 44	s 87.7	23.11	0.00032	0.000001
1.145	23.07	0.7494	1.000	0.01	597.4	22.90	0.00009	u.UUQUU4	1. 347	21.95	(+, 21.91	3.597	-1+19	634.5	23.27	0.00018	3.000008
1.245	23.10	0.2711	1.007	7,74	649.6	27, 94	0.00000	-4+640000	1.427	22.11	(. 2402	J. C d D	-0.01	697.7	23.47	0.00007	3.003313
1.370	23.05	0.2984	1.000	5.00	714.9	22.95	0.00000	0.000000	1.552	22.13	3.2612	1.001	C. 11	753.9	23.44	0.00000	-v.6032u3
									1.702	22.12	9.2865	1.000	0. OC	P12.2	23.45	0.00000	0.000000

r

RUNI	10372-1	X=82	• 1=	°.					RUN:	10372-1	(X=97)	• 7=	^•			
UI . CF/2-	20.50	7	01 = 02 =	n.1754 n.2617 9.1895	8ETA 8 P+	- 0.373 0.389 - 0.002	А D2 Н G	= 2780. = 1.434 = 7.41.	U1 CF/2	20.16 0.0010	4	01 • 02 • 00 •	0.4034 0.2819 9.9467	8ET) 9 8+	- 0.379 0.389 - 0.012	RD2 = 2946. H = 1.431 G = 7.425
к =	-0.1568	-04	099 *	1. 9772	¥0+	=-0.016			К =	-3.148	-06	<u>j</u> ē s =	2.1203	V7+		
Ŷ	IJ	Y/DC	u701	(0-01)7	U* ¥+	U+	TAU	TAULAM	¥	U	¥70C	0701	(0-01)704	¥+	U+	TAULAN
9.00.9	7.92	c.(010	0.142	-20.99	٦.9	3.48	0.00159	0.061408	0.007	2.69	0.0007	0.134	-21.36	2.9	3.30	0.001538
0.011	3.44	2.0012	0.169	a -2n.37	4. A	4.11	0.00138	0.C01384	3.039	3.13	0.0009	0.155	- 70, 83	3.7	3.83	0.001432
0.013	4.08	0.0014	3.199	-19.60	5.6	4.83	0.00156	0.0.1361	9.011	7.65	0.0011	n.181	-20.20	4.6	4.46	U, Dúl 327
0.016	4.95	0.0017	0,241	-18.57	6,9	5.91	0.00154	0.001249	3,013	4.14	0,0013	J. 275	-1 9. 60	5.4	5.06	0.031222
5.019	5.73	0.0021	∂ .280	-17.63	8.2	6. AS	0.00152	0.001086	3.015	4.73	0.0015	0.234	-18.98	6.3	5. 78	U. 661269
3.922	6.69	0.0024	0.724	-16.49	9.5	7.99	0.00149	0.000954	3.019	5.47	0.0018	n, 271	-17.°6	7.5	6.69	6.601079
0.725	7.05	0.1027	0.344	-15.16	10.B	8.42	0.00149	U.JU3843	5.021	6.13	0,0021	0.306	-17.16	8.5	7.50	0.000 976
0.029	7.67	0.0032	r.374	-15.31	12.5	Se 16	0.00147	9.003286	0.024	6.87	0.1674	n.338	-16,31	14.1	8, 34	0.000864
0.034	8,48	0.0037	0.414	-14.35	14.8	10.13	0.00145	0.066553	0.028	7.33	0.00ZA	~. 363	-15,70	11.8	*,96	U.ÚUĴ733
5.045	9.17	0+0044	A. 447	-13.52	17.4	10.95	0.00144	0.003462	3.031	7.90	6.FC31	0.352	-15,00	13.1	9.46	0.000540
0.048	9.81	0.0052	0.478	-12.77	20.8	11.71	0.00143	0.30345	0.035	8,43	0,0035	0+418	-14.35	14.7	10.30	u.J03534
0.050	17.61	0.1065	0.518	9 -11.91	26.0	12.67	0.00147	ú. O úO 2 2 8	3.045	8,93	0,1047	0.443	-13.74	16.9	1 . 92	0,600448
0.078	11.36	0.0085	0.554	-17.91	37.8	13.57	0.00141	5.300145	0.(47	9.46	0.0947	r.469	-13.09	19.8	11.57	0.000333
0.103	11.66	0.0112	n.569	• −1°•55	44.7	13.97	0.00141	0.003096	056	9.99	r.nn56	3.405	-12.45	23.6	12.21	ů•ú∪JZ43
0.138	12.28	0.0150	0.500	-9.92	59.9	14.65	0.00142	0.000063	2.067	10.46	0. 1067	r.519	-11.86	28.3	12.57	J.JLJ179
0.180	12.91	5.0205	0.633	-9.00	91.6	15.42	0.00143	0.000046	3.645	11.14	0.0095	0.55?	-11.04	35.9	13.42	0.000124
0.263	13.54	0.0286	7.661	-8.31	114.1	16.17	0.00145	0.000035	0.110	11.32	0.0110	n. 561	-16.92	46.5	13.84	0.000056
7, 169	13.97	0.0379	n.682	-7.77	151.0	16.77	0.00147	0.000029	3,145	12.03	n.n146	3.597	-9,95	61.4	14.71	u, 00L062
0.44 A	14.58	C. 0488	2.717	-7.56	194.4	17.41	0.00149	0.000026	0,195	12.56	196	D.623	-9, Xr	87.6	15.36	3.003346
5.549	15.08	9.0596	n.736	-6.46	237.8	18.01	0.00150	0.000324	3.245	13.09	1.1264	7.649	-8.47	117.2	15.90	6.000037
2.648	15.59	0.0705	0.761	-5.86	281.2	18.62	0.00149	5.003323	9.365	13.77	0.0367	0.623	-7, 93	154.6	16. 23	0.003329
0.773	16.21	0.0841	0.791	-5.12	335.4	19.36	0.00147	9.00021	U.490	14.43	n, n492	0.714	-7.)5	207.6	17.61	3,900025
0.898	16.73	0.0977	0.816	-4.50	3A9.7	19.94	0.00141	6.LJJJ20	A.615	14.95	~.C618	0.741	-6.36	267.6	14.23	3.035822
1.045	17.43	2.1140	0.850	-3,67	454.8	50°87	0.00131	0.00019	7. 74 5	15.71	C. 769	C.778	-5+44	324.1	19.20	0. 200021
1.109	17.86	A.1304	0. 471	-3.15	519.9	21.33	0.00116	0.000018	1.c15	16.26	r.0051	·). Br 6	-4.77	387.7	10.00	9+032018
1.398	18.78	0.1521	0.916	-?. 15	636.7	22.43	0.00097	0.000015	1.045	16.87	0.1071	0.837	-4.03	451.3	20.63	0.000018
1.578	19.43	0.1739	3.945	3 -1.27	693.4	23.21	84000.0	0.0C3u12	1.215	17.44	0.1?21	^. 965	-3, 77	514. B	21.33	0.005317
1.758	19.94	n.1957	3,975	5 -^.62	78°.Z	23.86	0.00041	0.0000.19	1.415	18,11	(+1422	1.858	-7.51	509.6	22.14	0.000015
1.998	24.33	0.2174	0,942	5 -0-30	867.ð	24,28	0.00020	0.000065	1.615	18.74	0.1623	0. 633	-1.74	184.4	72.92	0+303315
2.19R	20.49	0.2392	1.001	n -r,na	a53.8	24.48	0.00007	0.000003	1.965	19.57	1,1875	0.967	-^.A1	797.3	23.A5	0.000009
2.398	25.52	0.2609	1.001	0.03	1040.5	24.5L	0.00000	0.0000€1	2.115	19,96	0.2126	1,950	-*.25	A 96. 1	24.41	v. 3uJub
2.698	20.50	3.2936	1.000	n n, 10	3177.8	24.48	0.00000	9.000019	2. 41 5	20.19	C.2428	1.301	A-13-1	223+4	24.69	3.000002
									2.715	20.20	0.2729	1.707	7. 74 1	154.5	74 , 7r	-0+001111
									3.015	20+12	0•3^31	1.000	r.⊓r l	277.7	24.45	v. 000000

				•				RUNZ	71571-5	x=10.	2- 0					
RUNI	11511-5	X= 2		U.										0-676	8D2	= 971.
ut =	29.69		D1 -	0.0556	BETA	- 0.141	RD2 = 532.	01 *	26.93	-		0718	8 .	0.000	h	- 1.585
CF/2*	0.0027	1	02 -	0.0357	6	0.000	H = 1.559	CF/2+	0.0014	8	02 - 0	1 6671	Pe a	0.0098	G	. 8.294
£ +	0.0000	Ó	DC •	1.0674	P+	- 0.0033	6 = 6.88/	- F =	0.0000	- 84	D00 - (51 79	¥0+ =	D.0000	F	
К ≠	-0.460E	-06	099 =	0.3081	¥0+	- 0.0000		K *	-0.6075	-00						
¥	U	Y/DC	U/U[10-01170	• Y+	U+	TAULAM	Y	v	¥/DC	U/VI	{U-U1}/U*	٧+	U+	TAU	TAULAM
					1 1	1 16	0.002227	0.005	3.97	0.0020	0.146	-19.20	3.0	3.27	0.00204	0.001701
0.004	2.14	0.0040	0.175	-13+03		3 59	0.002119	0.006	4.26	0.0023	0.158	-18.92	3.6	3.55	0.00205	0.001561
0.005	2.22	0.0050	0.10	-15.02		4.09	0.002012	0.007	4.88	0.0027	0.181	-18.40	4.2	4.07	C.00206	0.001420
0.006	6.32	0.0059	0.213	-12.12		4.67	0.001864	0.008	5.31	0.0031	0.197	-18.04	4.8	4.43	0.00207	0.001326
0.007	7.09	0.0068	0.239	-14.02			0 001917	0.009	5.82	0.0035	0.216	-17.61	5.4	4.86	0.00208	0.001352
0.008	8.79	0.0078	0.296	-13.52	0.9	2.00	01001011	0.001	,							
		A A144	0 182	-12.45	8.8	6.79	0.001536	0.010	6.28	0.0039	0.233	-17.23	6.0	5.24	0.00209	0.001316
0.011	10.44	0.0106	0.372	-12.49	10.3	7.48	0.001314	0.012	7.21	0.0047	0.268	-16.45	7.2	6.0Z	0.00211	0.001230
0.015	11.68	0.0125	0.400	10.72		4 41	0.001099	0.015	8.46	0.0059	0.314	-15.41	9.0	7.06	0.00213	0.001081
0.015	13.01	0.0145	0.438	-10.79	14.7	9.42	0.000927	0.019	10.00	0.0074	0.371	-14.13	11.4	8.34	0.00217	0.000893
0.018	14.30	0.0171	0.440		17.6	10.00	0.000753	0.024	11.45	0.0094	0.425	-12.92	14.5	9.55	0.00220	0.000644
0.021	15.60	0.0200	0.925		10.7	10107	•••••									
						10.59	0.000625	0.029	12.63	0.0113	0.469	-11.94	17.5	10.53	0.00223	0.000500
0.024	16.30	0.0228	0.334		10.7	11 27	0.000497	0.035	13.46	0.0137	0.500	-11.24	21.1	11.23	0.00225	0.000376
0.028	17.42	0.0265	0.58	-1.94	22.0	11.96	0.000390	0.043	14.35	0.0168	0.533	-10.50	25.9	11.97	0.00226	0.000214
0.033	18-49	0.0312	0.023		20 7	12 45	0.000313	0.055	15.27	0.0211	0.567	-9.73	32.5	12.74	0.00230	0.000146
0.038	19.25	0.0359	0.041	-0.13		1.7.44	0.000259	0.049	14-12	0.0270	0.598	-9.02	41.5	13,45	0.00231	0.000148
0.043	19.87	0.0406	0.665	-6.35	33.0	12.07	01000177	01007								
						12 12	0.000218	0.089	16.99	0.0348	0.631	- 8.29	53.4	14.17	0.00224	0.000116
0.048	20.28	0.0452	0.003		45 3	13.66	0.000177	0.116	17.86	0.0446	0.463	-7.57	68.6	14.90	0.00224	0.000096
0.058	21-12	0.0540	0.717	-5.04		14.16	0.000151	0.139	18.71	0.0544	0.695	-6.86	83.7	15,61	0.00216	0.000089
0.058	21.87	0.0640	0.730		44 7	14 78	0.000129	0.179	19.84	0.0700	0.737	-5.92	107.8	16.55	0.00196	0.000080
0.083	22.86	0.0780	0.770			16 67	0.000105	0.219	20.96	0.0856	0.778	-4.98	131.9	17.49	0.00173	0.0000/4
0.108	24.07	0.1015	0.811	- 3.03	04+1											
					00 6	14 00	0-000094	0.259	22.01	0.1013	0.817	-4.10	155.9	18.37	0.00148	0.000070
0.128	24.74	0.1202	0.83		107.4	16 44	0-000089	0.298	23.02	0.1169	0.855	-3.27	180.0	19.20	0.00123	0.000064
0.138	25.42	0.1296	9.67	2.10	1011	16.44	0.000081	0.339	23.92	0.1326	0.888	-2.51	204.1	19.96	0.00101	0.000057
0.158	26.12	0.1483	0.890	3 -2.31	122.7	17 21	0.000073	0.389	25.01	0.1521	0.929	-1.60	234.2	20.87	0.00081	0.000047
0.178	26.79	0.16 /1	0.404	-1.00	130.9	11.33	0.000061	0 439	25.84	0.1717	0.960	-0.91	264.3	21.56	0.00065	0.000034
0.198	27.41	0.1858	0.923	-1.48	154.0	11.10	01000001	0.437								
					171 4	14 15	0-000051	0.489	26.49	0.1912	0.984	-0.37	294.4	22.10	0.00052	0.000023
0.223	28.06	0.2092	0.945	-1.05	107	18 51	0.000040	0.519	26.79	0.2108	0.995	-0.12	324.5	22.35	0.00032	0.000013
0.246	28.61	0.2320	0.464	-0.10	112.0	14 78	0.000030	0.614	26.94	0.2401	1,001	0.01	369.7	22.48	0.00000	0.000003
0.273	29.04	0.2360	0.476	-0.42	231 7	18.97	0.000021	0.689	26.93	0.2694	1.000	0.00	414.8	22.47	0.00000	0.000000
0,298	29.33	0.2795	0.980	-0.23	25141	19.07	0.000013	01001								
0.323	29.49	0.3025	0.99	-0.13	£ 21 + L											
	20.41	0 3343		0.05	270.5	19.15	0.000008									
0.348	29.01	0.3203	0.77	-0.03	289.9	19.18	0.000004									
0.375	29.00	0.349/	1 004	-0.01	109.4	19.20	0.000002									
0.398	29.08	0.3131	1 000	0.00	128.8	19.20	-0.000001									
0.423	24.64	0.1900		0.00	348.2	19.20	0.000000									
0.448	24.64	0.4200	1-000	0.00	3-000											

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EUN:	71571-5	X=22	. I-	o.					R UN :	71571-5	X=34.	. Z= 1	.				
			N 1 -	0 1076			852	× 1528.						86 T.4 .	496.0	R.0.7	= 1986.
01 *	29.3/	~		0.1738		0.000	H	# 1.563	66/2-	23.20	1	02 - 1	0.1700		0.000		- 1.539
LF/2	0,0016		00	4 7088	P+	. 0.007	n G	= 8.766	6772-	0.0015		DC	6.6974	P+ -	0.0058	Ġ	* 8.960
	0.0000		00 -	A 8478	VD.+	. 0.000	n Č			-0 348F	-06	D99 = 1	1.1752	¥0+ -	0.0000	•	
K .	~U. 487E	-00	017 -	0.0020	10.	- 01000	•		· -	01 5400							
۲	υ	¥/DC	U/UI	10-01370	* Y+	U+	TAU	TAULAH	Y	U	Y/DC	0701	(0-01)/0*	¥+	U+	T AU	TAULAM
0 00 F		A 4011	0 110	-21 43	2.5	2.90	0.00172	0.001507	0.004	2.76	0.0008	0.118	-22.55	2.6	3.03	0.00155	0.001414
0.005	2.72	0.0011	0 117	- 21, 11	3.0	3.77	0.00172	0.001434	0.001	2.94	0.0010	0.126	-22.35	3.0	3.23	0.00156	0.001322
0.006	3.29	0.0015	0.132	-70 89	3.6	3.43	0.00173	0.001360	0.00	1.74	0.0011	0.139	-22.02	3.5	3.56	0.00156	0.001231
0.007	3. 77	0.0013	0 151	-20.66	4.1	3.68	0.00174	0.001168	0.000	3.59	0.0013	0.154	-21.64	3.9	3.94	0.00156	0.001105
0.008	3.12	0.0017	0 191	-10 97	5.1	4.40	0.00175	0.001218	0.007	4.09	0.0016	0.176	-21.08	4.8	4.50	0.00157	0.001141
0.010	4.47	0.0021	0.181	-17.72		4.40	0.000000		0.014	4.07	0.0010						
0.014	5.75	0.0028	0.234	-18.63	6.6	5.69	0.00176	0.001173	0.014	4.92	0.0020	0.212	-20.17	6.7	5.41	0.00158	0.001098
0.017	7.11	0.0036	0.290	-17.27	8.6	7.05	0.00179	0.000982	0-015	6.23	0.0026	0.268	-18,73	6.0	6.86	0.00160	0.000964
0.071	8 23	0.0045	0.335	-16.18	10.7	8.15	0.00181	0.000012	0-023	7.67	0.0034	0.330	-17.15	10.3	8.44	0.00161	0.000786
0.025	9.27	0.0053	0.377	-15.14	12.7	9.18	C. 00182	0.000656	0-026	8-60	0.0041	0.370	-16.13	17.6	9,46	0.00163	0.000620
0.020	10 00	0 0066	0.411	-14.34	15.2	9,99	0.00185	0.000509	0.037	9.14	0.0049	0.402	-15.31	14.9	10.27	0.00164	0.000488
0.030	10.07	0.0004	••••		• • • •				0.033								
0.036	11.03	0.0076	0.449	-13.40	18.3	10.92	C. CO187	0.000393	0-046	10.23	0.0059	0.440	-14.34	18.1	11.25	0.00166	0.000359
0-043	11.45	0.0091	0.474	-12.79	21.8	11.54	C. CO190	0.000293	0.051	10.99	0.0074	0.473	-13.49	22.7	12.09	0.00169	0.000254
0.053	12.31	0.0113	0.501	-12.14	26.9	12.18	0.00193	0.000215	0.06	11.73	0.0097	0.504	-12.68	29.5	12.90	0.00173	0.000166
0.068	13.24	0.0144	0.539	-11.22	34.5	13.10	0.00197	0.000149	0.090	12.60	0.0134	0.542	-11.73	40.9	13.86	0.03178	0.000107
0.088	13.86	0.0187	0.564	-10.61	44.7	13.72	C. CO202	0.000110	C-120	13.29	0.0179	0.571	-10.97	54.6	14.62	0.00184	0.000079
0.113	14.57	0.0240	0.593	-9.90	57.3	14.43	0.00009	0.000084	0.166	13.90	D.0238	0.597	-10.30	72.9	15.28	0.00141	0.000060
0.136	15.15	0.0293	0.617	-9.33	70.0	15.00	0.00212	0.000070	0.200	14.61	0.0298	0.62B	-9.52	91.7	16.06	0.00197	0.000052
0.178	15.85	0.0378	0.645	-8,64	90.3	15.69	0.00215	0.000061	0.240	15.12	0.0358	0.650	-8.95	109.4	10.03	0.00202	0.000046
0.223	16.55	0.0474	0.673	-7.94	113.2	16.38	6.00516	0.000056	C. 29	15.59	0.0433	0.670	-8.44	132.3	17.15	0.00203	0.000043
0.275	17.37	0.0580	0.707	-7.13	138.5	17.20	0.00213	0.000053	0.36	16.51	0.0545	0.710	- 7.42	166.5	18.16	0.00207	0.000034
						17 05	C 00205	0 000052		17.17		0 736	-6 75	200.8	18-84	0.00202	0.000038
0.323	18.13	0.0686	0.738	-0.37	180 7	11.72	0.00104	0.000050		17.15	0.0310	0.770	-5 89	235.1	19.69	0.00195	0.000037
0.373	18.91	0.0792	0.770	-3.01	114 4	10.44	0.00178	0.000048	0.513	11.44	0.0104	0.170	-4 08	269.3	20.61	0.00185	0.000036
0.423	19.64	0.0898	0.799	-4.09	214.0	20 17	0.00110	0.000046	0.590	18.74	0.0881	0.809	-1 97	315.0	21.62	0.00161	0.000034
0.473	20.38	0.1005	0.829		240.0	20.11	6 00112	0.000041	0.040	19.00	0.1030	0.045	-2 94	360.7	22.64	0.00133	0.000031
0.548	21.38	0.1164	0.8/0	-3.10	2/8.1	21410	0.00132	01000041	0.791	20.59	0.1100	0.000					
0 473	22.33	D.1323	0.909	-2.22	316.1	22.11	0.00107	0.000035	C. 494	21.44	0.1329	0.922	-2.01	406.3	23.56	0.00103	0.000026
0.023	23.23	0.1482	0.945	-1.35	354.2	22.98	0.00088	0.000028	0.994	22.20	0.1479	0.954	- 1.17	452.0	24.41	0.00€78	0.000021
0.070	26 04	0.1605	0.979	-0.52	404.9	23.80	0.00065	0.000018	1.09/	22.74	0-1628	0.977	+0.58	497.7	25.00	U.OC C 56	0.000014
0.190	76.60	0.1907	0.994	-0.09	455.6	24.23	0.00042	0.000010	1.196	23.08	0.1778	0.992	-0.20	543.4	25.38	0.00037	0.000009
0.000	24.50	0.2119	1.001	0.07	506.4	24.34	0.00018	0.000003	1. 201	23.22	0.1977	0.998	-0.05	589.1	25.53	0.00€19	0.000005
0.990	27.37	~~~~															
1.094	24.60	0.2332	1.001	0.03	557.1	24.35	6.00030	-0.00002	1.390	23.26	0.2076	1.000	0.00	634.7	25.58	0.00007	0.000001
1.198	24.57	0.2544	1.000	0.00	607.9	24.33	0.00000	0.000000	1.490	23.27	0.2226	1.000	0.01	680.4	25.59	0.00000	-0.000002
									1.59	23.26	0.2375	1.000	0.00	726.1	25.58	0.00000	0.000000
									•••••								

AUN:	71571+5	X=46	. Z.	.					RUN:	71571-5	X=58.	Z = 1	Ξ.				
U1 =	22.27		D1 -	0.3356	BE TA-	- 0.708	RD2	= 2434.	UI =	21.36	-	01 -	0.3934	BETA	0.685	R D 2	- 2781.
CF/2=	0.0014	5	DZ =	0.2176	8	0.000		= 1.542	CF/2-	0.0014	0	02 -1	4940		0.004	1 G	. 9.101
F =	0.0000	0	DC =	8.0058	P+ -	0.005	06	* 9.225	F •	0.0000	u 	000 -	1 70 70	10.	- 0.000		
к =	-0.274E	-06	D99 =	1.5029	¥0+	* 0.000	0		к -	-0.2286	-06	044 ×	1.1870	100	- 0.000		
Y	U	Y/DC	U/UI	(0-01)704	• Y+	U+	TAU	TAULAN	¥	U	Y/DC	10701	10-01170*	¥+	U+	T∎U	TAULAM
		A 4411	0 1 7 9	-77 89	6.3	3.35	0.00148	0.001079	0.009	7.85	0.0009	0.133	-23.13	3.6	3.55	0.00142	0.001210
0.010	2.85	0.0011	0.120	-22.07	5.5	4.10	0.00149	0.001044	0.012	3.60	0.0011	0.169	-22.18	4.8	4,50	0.00143	0.001134
0.013	3	0.0019	0.150	-20.98	7.2	5.26	0.00150	0.000999	0.016	4.50	0.0015	0.206	-21.19	6.4	5.49	0.00144	0.001032
0.017		0.0019	0.200	-19 47	9.n	6.77	0.00151	0.000897	0.021	5.45	0.0020	0.265	-19.62	8.4	7.06	0.00145	0.000862
0.021	3.73	0.0024	0.200	-18.16	11.1	8.09	0.00153	0.000759	0.026	6.74	0.0025	0.315	-18.27	10.5	8.42	0.00146	0.000725
0.026	0.00	0.0030	0.300	-10110				•••••									
	7 83	0.0034	0 154	-16.90	13.6	9.34	0.00154	0.000588	0.031	7.40	0.0030	0.347	-17.43	12.5	9.25	0.00147	0.000596
0.032	1.93	0.0056	0.394	-15.90	16-6	10.35	0.00156	0.000436	0.037	8.72	0.0035	0.385	-16,41	14.9	10.27	0.00148	0.000468
0.039	8.75	0.0044	0.174	+14.65	20.9	11.59	0.00158	0.000307	0.045	9.01	0.0043	0.423	-15.41	18.1	11.20	0.00150	0.000351
0.044	9.07	0.0000	0 444	-14.06	24.0	12.18	0.00160	0.000214	0.057	9.41	0.0050	0.441	-14.93	20.9	11.75	0.00151	0.000286
0.081	10.34	0.0007	A 508	-17 07	34.5	13.32	0.00164	0.000138	0.067	10.23	0.0064	0.479	-13.91	26.9	12.78	0.00154	0.000187
0.081	11.31	0.0042	0.300						0.001								
	17 04	0.0176	0.541	-12.06	47.3	14.18	0.00170	0.000089	0.087	10.98	0.0083	0.514	-12.97	35.0	13.74	0.00157	0.000123
0.141	17 51	0.0140	0.562	-11.51	60.1	14.74	0.00175	0.000068	0.117	11.55	0.0111	0.541	-12.25	47.1	14.43	0.00161	0.000079
0.141	12.91	0.0100	0 592	-10.71	81.4	15.53	0.00182	0.000051	0.157	12.06	0.0150	0.565	-11.62	63.1	15.07	0.00167	0.000055
0.191	13.10	0.0217	0.639	-9.49	124.1	16.76	3.03192	D.000040	0.197	12.49	0.0168	0.585	-11.09	79.2	15.60	0.00171	0.000044
0.274	14 76	0.0616	0.667	~8.86	156.0	17.38	0.00196	0.000037	0.247	12.90	0.0235	0.604	-10.57	99.3	16.11	0.00175	0.000039
0.300		0.0410															
0 441	15 55	0.0501	0.698	-7-92	188.0	18.32	0.00199	0.000034	0.327	13.52	0.0307	0.633	-9.79	129.5	16.89	0.00182	0.000034
0.541	14.35	0.0614	0.734	-6.98	230.6	19.26	0.00198	0.000032	0.397	14.04	0.0378	0.657	-9.15	159.7	17.53	0.00158	0.000032
0.044	17 07	0 0778	0.761	-6-13	273.3	20.12	0.00192	0.000031	0.497	14.72	0.0474	0.689	-8.29	199.9	18.39	0.00193	0.000030
0.041	17.81	0.0841	0.800	-5.25	315.9	20.99	0.00181	0.000029	0.597	15.38	0.0569	0.720	-7,46	240.1	19.22	0.00195	0.000029
0.141	18 47	0.0955	0.830	-4.47	358.5	21.77	3.00165	0.000028	0.697	15.99	0.0664	0.748	-6.71	280.3	19.97	0.00192	0.000028
0.041	10.41																
A 941	19-27	0.1069	0.865	- 3. 53	401.2	22.71	0.00148	0.000026	0.797	16.63	0.0759	0.778	-5.91	320.5	20.77	0.00188	0.000027
1 401	70 18	0 1230	0.906	-2.46	465.1	23.78	0.00114	0.000023	0.947	17.58	0.0902	0.823	-4.72	380.8	21.96	0.00176	0.000025
1.071	21.06	0.1409	0.946	-1.43	529.1	24.B1	0.00082	0.000017	1.097	18.35	0.1045	0.859	-3.76	441.2	22.92	0.00155	0.000023
1 291	21.79	0.1580	0.978	-0.57	593.0	25.68	0.00057	0.000012	1.247	19.17	0.1188	0.897	-2.74	501.5	23.94	0.00130	0.000020
1 54 1	37 14	0.1750	0.996	-0.16	657.0	Z6.08	0.00033	0.000007	1.397	19.82	0.1331	0.928	-1.93	561.8	24.75	0.00098	0.000016
4+ 24.1									••••								
1.491	77.78	0.1920	1.000	0.01	720.9	26.25	C.00016	0.000003	1.597	20.64	0.1522	0.967	-0.89	642.Z	25.79	0.30062	0.000012
1 901	22.76	0.2167	1.001	0.02	806.2	26.26	0.00000	-0.000001	1.797	21.17	0.1712	0.991	-0.23	722.7	26.45	0.00034	0.000007
2 091	22.27	0.2375	1.000	0.00	891.4	26.24	0.00000	0.000000	1.997	21.36	0.1903	1.000	-0.01	803.1	26.68	0.00013	0.000003
2.074	*****								2.197	21.38	0.2093	1.001	0.0Z	883.5	26.71	0.00000	0.000000
									2.397	21.36	0.2284	1.000	0.00	964.D	26.68	0.00000	0.000000

RUN 1	71571-5	%=70	. l=	¢.					RUN:	71571-5	5 X-82	· [=					
UI CF/2= F K	20.74 0.0013 0.0000 -0.196E	6 0 -06	D1 = 02 = DC =1 D99 =	8.4610 0.3049 12.5079 3.1211	8E TA 8 9+ V0+	= 0.693 = 0.000 = 0.003 = 0.000	RD2 H 9 6 0	= 3177. = 1.512 = 9.191	UI CF/2 F	20.35 0.0013 0.0000 -0.1748	3 00 -06	D1 - D2 - DC -1 D99 -	C.51C8 D.34L9 4.0251 2.4043	BE TA B P+ V0+	0.685	RD2 H 6 G 0	= 3495. = 1.494 = 9.080
۲	U	Y/DC	U/UI	{U-U[]/(ја ¥+	U+	T AU	TAULAM	Y	U	Y/DC	U/U I	(0-011/04	• Y+	U+	TAU	TAULAN
	3 74	0.0004	A 117	-73.52	3.8	1.61	0.00130	0.001178	0.016	2.78	0.0007	0.137	-23.70	3.7	3.75	0.00135	0.001199
0.010	1 67	0.0000	A 173	-22.46	5.0	4.67	0.05139	0.001092	0.013	3.40	0.0009	0.167	-22.86	4.8	4.59	0.00135	0.001129
0.017		0.0014	0 214	-21.27	Á. 5	5.86	0.00139	0.000979	0.017	4.36	0.0012	0.214	-21.57	6.3	5.89	0.00136	0.001036
0.021	5.14	0.0017	0.25	-20.14	8.1	6.99	0.00140	0.000543	0.021	5.20	0.0015	0.256	-20.44	7.8	7.02	0.00137	0.00080Z
0.025	5.92	0.0020	0.285	-19.39	9.6	7.74	0.00141	0.000725	0.025	5.95	0.0018	0.292	-19.43	9.3	8.03	0.00137	0.000758
									0.036	6.76	0-0021	0.331	-18.35	11.2	9.10	0.00138	0.000624
0.030	0.07	0.0024	0.324	-18.39			0.00142	0.000002	0.034	7.19	0.0026	0.363	-17.48	13.4	9.97	0.00139	0.000494
0.037	1.68	0.0030	0.370	-1/.09	13-4	10.04	0.00143	0.000472	0.043	8.04	0.0031	0.395	-16.60	16.0	10.85	0.00140	0.000364
0.045	6.33	0.0038	0.431	-10.23	21.1	11.72	0.00146	0.000365	0.051	A. 75	0.0038	0.430	-15.65	19.7	11.81	0.00141	0.000281
0.070	9.76	0.0056	0.470	-14.37	26.9	12.76	0.00148	0.000180	0.066	9.44	0.0046	0.464	-14.72	25.3	12.73	0.00143	0.000194
									0.007	10.24	0 0064	0.503	-13-63	14.6	13.82	0.00146	0.000119
0.090	10.29	0.0072	0.496	-13.6/		13.30	0.00151	0.000118	0.073	11 64	0.0102	0.543	-12.55	53.2	14.90	0.00152	0.000066
0.120	10.98	0.0096	0.525	-12-11	10.1	14.30	0.00154	0.000071	0.143	11.48	0.0138	0.564	-11.96	71.9	15.50	0.00158	0.000047
0.160	11-22	0.0128	V-221	-12.10	74 8	15 10	0.00143	0.000047	0.24.8	12.08	0.0191	0. 594	-11.15	99.8	16.30	0.00166	0.000035
0.200	11+33	0.0100	A 800	-11 11	06.0	14.00	0.00149	0.000040	0.341	12.62	0.0245	0.620	-10.43	127.7	17.03	0.00172	0.000030
0.250	14.27	0.0200	0.970		70.0	10.00	0.00107	01000000					••••				
0.300	12.68	0.0240	0.611	-10.55	115.2	16.58	0.00174	0.000036	0.443	13.09	0.0316	0.643	-9.80	164.9	17.66	0.00178	0.000027
0.375	13.21	0.0100	0.637	-9.86	144.0	17.27	0.00180	0.000032	0.543	13.66	0.0387	0.672	-9.02	202.2	18.44	0.00183	0.000025
0.450	13.62	0.0360	0.657	-9.31	172.8	17.82	0.00185	0.000028	0.693	14.32	0.0494	0.704	-8.14	258.0	19.32	0.00189	0.000023
0.558	14.22	0.0440	0.686	-8.53	211.3	18.60	C.0€191	0.000026	0.843	14.99	0.0601	0.737	-7,22	313.8	20.23	0.00141	0.000022
0.650	14.64	0.0520	0.704	-7.98	249.7	19.15	0.00192	0.000025	0.993	15.71	0.0708	0.772	-6.25	369.7	21.20	0.00184	0.000021
				_7 36		10.00		0.000074	1.143	16.31	0.0815	0.802	- 5. 44	425.5	22.01	0.00181	0.000020
0.150	19.20	0.0600	0.133		200.1	20.05	0.00188	0.000023	1.791	16.86	0.0922	0.829	-4.70	481.4	22.75	84100.0	0.000019
0.000	16.02	0.0720	0.772	-0.10	102.1	20.95	0.00174	0.000023	1.497	17.68	0.1065	0.869	-3.61	555.8	23.85	0.00146	0.000017
1.050	18.70	0.0839	0.805		403.3	21.04	0.00160	0.000022	1.691	18.35	0.1207	0.902	-2.69	630.3	24.76	0.00117	0.000015
1.404	18.78	0.0777	0.831	-3.22	537.7	23.91	0.00132	0.000019	1.895	19.02	0.1350	0.935	-1.79	704.7	25.67	0.00087	0.000012
		*****													34 70	0.00045	0 00000
1.604	19.14	0.1279	0.923	-2.09	614.5	25.04	0.00100	0.000016	2.193	19.65	0.1564	0.976	-0.6/	810.4	20.19	0.00014	0.000008
1.808	19.85	0.1439	0.957	-1.17	691.4	25.96	0.00064	0.000012	2-493	20.27	0.1778	0.996	-0.11	926+1	27.37	0.00000	0.000004
2.008	20.35	0.1599	0.981	-0.52	768.2	26.61	0.00033	0.000008	2.793	20.37	0,1991	1.001	0.03	11037.8	17 44	0.00000	0.000002
2.208	20.66	0.1759	0,996	-0.11	845.0	27.02	0.00014	0.000005	3.191	20.35	0.2211	1.000	0.00		21.40	0.0000	0.00000
2.458	20.74	0.1959	1.000	0.00	941.0	27.13	0.00000	0.000001									

RUN:	71571-5	X=90	. 2=	0.				BUN: 1	11571-1	X= 2.	. z= 0	•				
UI + CF/2= F = K =	20.05 0.0013 0.0000 -0.170E	1 0 -06	D1 D2 DC =1 D99	0.5449 0.3656 5.0589 2.5701	8ET/ 8 7+ V0+	- 0.712 - 0.000 - 0.0036 - 0.0000	RD2 = 3681. F = 1.491 G = 9.094	UÌ ■ CF/2= F ■ K = -	29.39 0.0024 0.0009 -0.444E	9 9 -06	01 = 0 02 = 0 0C = 1 099 = 0	.0592 .0371 .1647 .3127	8674 8 9+ 90+	= C.16C = 0.397 = 0.0030 = 0.0198	К D 2 Н G	= 563. = 1.598 = 7.476
۲	U	Y/DC	U/UI	{0-0[}/	U* ¥+	U+	TAULAM	۲	U	Y/DC	1010	10-01370	· ··	U.		T & UL & W
0.009	2.58	0.0006	0.129	-24.08	3.2	3.55	0.001270	0.004	4.76	0.0030	0.152	-16.78	3.3	3.24		r.co1º28
0.018	2.80	0.0007	0.140	-23.77	3.6	3.86	0.001231	0.005	4.89	0.0045	0.166	-16.69	4.0	3.3'		9. CCI P57
0.014	3.12	0.0007	0.156	-23.34	3.9	4.30	0.001191	0.007	6.34	0.0062	9.216	-15.70	5.5	4.32		0.001715
0.013	3.44	0.0008	0.172	-22.89	4.7	4.74	0.001114	0.009	7.88	0.0678	0.268	-14.65	7.1	5.37		0.001591
0.016	4.22	0.0010	0.210	-21.82	5.8	5.81	0.000987	C.011	9.40	0.0095	0.350	-13.62	8.6	6.4		0.03479
0.020	4.90	0.0013	0.244	-20.89	7.2	6.75	0.000838	0.013	10.76	0.0112	0.366	-12.69	10.1	7.33		0.001324
0.025	5.69	0.0016	0.284	-19.79	9.0	7.84	0.000704	0.015	11.92	0.0129	7.405	-11.90	11.6	8.12		7.001149
0.031	6.55	0.0020	0.327	-18.60	11.2	9.04	0.000571	0.017	12.89	0.0146	0.439	-11.24	13.1	6.74		7.000009
0.037	7.12	0.0024	0.355	- 17.82	13.4	9.82	0.000474	0.019	13.71	0.0163	0.467	-10.68	14+6	9.34		3.000481
0.047	8.02	0.0031	D. 400	-16.58	17.1	11.05	0.000352	0.022	14.76	0.0188	C.572	-9.97	16.9	10.05		0.00.719
0.067	9.01	0.0041	0.449	-15.22	22.5	12.42	0,000234	0.025	15.66	0.0214	0.533	-9.35	19.2	10.67		0.000669
0.082	9.69	0.0054	0.483	-14.28	29.8	13.35	0.000153	0.028	16.32	0.0239	0.555	-8.90	21.5	11.1?		0.000520
0.107	10.30	0.0071	0.514	-13.44	38.9	14.19	0.000100	0.032	17.34	0.0273	0.590	- 8. 21	24.5	11.91		A.000425
0.147	10.81	0.0097	0.539	-12.73	53.5	14.90	0.000062	0.036	17.98	0.0306	0.612	-7.77	27.5	12.25		P.OPC332
0.207	11.35	0.0137	0.566	-11.98	75.4	15.65	0.000043	0.040	18.53	0.0340	0.630	-7,40	30.6	12.02		01000302
0.282	11.91	0.0167	0.594	-11.21	102.7	16.42	0.000034	0.045	19.10	0.0382	0.656	- 7.01	34.4	13.01		n.cc^248
0.357	12.33	0.0237	0.615	-10.64	130.0	17.00	0.000030	0.051	19.68	0.0433	0.675	-6.61	38.9	13.41		0.000214
0.457	12.86	0.0303	0.642	-9.91	166.5	17.73	0.000026	0.057	20.29	0.0484	0.690	-6.20	43.5	12.02		5.CC01.68
0.607	13.59	0.0403	0.678	-8.90	221.1	18.74	0.000023	0.064	20.79	0.0543	0.708	- 5, 86	48.8	14.16		0.00157
0.757	14.27	0.0503	0.712	-7.96	275.8	19.67	0.000021	0.072	21.36	0.0610	(.727	- 5. 47	54.9	14.33		0.00151
0.907	14.78	0.0602	0.737	-7.26	330.4	20.37	0.000020	0.080	21.92	0.0678	0.743	- 5.16	60.9	14.86		0.010139
1.057	15.53	0.0702	0.775	-6.23	385.1	21.41	0.000019	r.090	22.42	0.0762	0.703	- 4. 75	68.5	15.27		0.000128
1.207	15.88	0.0801	0.792	-5.74	439.7	21.89	0.000018	C. 102	23.11	0.0863	0.796	-4.28	17.6	15.74		0+000118
1.407	16.74	0.0934	0.835	-4.56	512.6	23.07	0.000018	0.115	23.80	0.0973	6.810	- 3. 81	87.5	16.21		u*cc31ca
1.607	17.40	0.1067	0.868	-3.65	585.5	23.99	0.000016	0.130	24.42	0.1100	0.931	-3.38	98.9	16.64		0+000044
1.907	18.39	0.1264	0.917	-2.24	694.4	25.35	0.000013	0.145	25.11	0.1226	r.854	-2.92	110.3	17.10		0.000090
2.207	19.25	0.1445	0.940	-1.10	804-1	26.54	0.000009	0.165	25.87	0.1395	0.830	- 2.40	125.4	17.02		0.001080
2.507	19.79	0.1665	0.947	-0.35	913.5	27.28	0.000006	0.185	26.56	0.1564	0.904	-1.93	140.6	18.09		0.000071
2. 407	20.05	0-1864	1.000	0.00	1022.8	27.63	0.000003	0.210	27.31	0.1775	0.929	-1.42	159.6	18.60		4.000059
3.207	20.07	0.2130	1.001	0.04	1168.5	27.67	0.000000	0.235	27.93	0.1986	0.950	-1.00	178.6	15.02		0.000047
3-507	20.06	0.2329	1.000	0.01	1277.9	27.65	-0.000001	0.260	28.47	0.2197	0.969	-0.63	197.5	19.37		0.00036
3. 807	20.05	0.2528	1.000	0.00	1387.2	27.63	0.000000	0.290	28.92	0.2450	0.984	-0.32	220.3	19.73		0.003025
						-		0.320	29.16	0.2704	0,992	-0.16	243.1	19.85		0.000017
								0.360	29.34	0.3041	0.998	-0.03	273.4	19.99		0.000008
								0.410	29.39	0.3463	1.000	-0.00	311.4	20.02		9+000073
								0.460	29.39	0.3885	1.030	-0.00	349.3	20.02	-	0.000001
								0.535	29.39	0.4518	1.000	0.00	406.2	20.02		0.00000

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                                                                  | 26.52<br>0.00176<br>0.00092<br>-0.843E-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                                                                                                                                   | C.865<br>0.523<br>0.011<br>C.021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 0.005<br>0.007<br>0.009<br>0.011<br>0.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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Z= (<br>D1 = (<br>D2 = 1<br>D2 = 1<br>D2 = 1<br>D2 = 1<br>D3 = 1<br>D3 = 1<br>0.142<br>0.142<br>0.142<br>0.142<br>0.145<br>0.167<br>0.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| PUN: 1<br>UI =<br>CF72=<br>F =<br>K =<br>V<br>0.007<br>0.011<br>0.013<br>0.013<br>0.013<br>0.023<br>0.021<br>0.023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 11571-1<br>22.90<br>0.0014<br>-n.3365-<br>U<br>2.53<br>3.40<br>4.05<br>4.05<br>5.16<br>6.70<br>7.15<br>7.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | x=34.<br>0.007<br>0.007<br>0.0012<br>0.0014<br>0.0018<br>0.0021<br>0.0025<br>0.0029<br>0.0029<br>0.0029                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                   | = 1.066<br>C.642<br>C.642<br>- 0.027<br>J+<br>3.72<br>3.72<br>4.32<br>5.5<br>5.9]<br>E.55<br>7.63<br>F.52<br>4.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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11571-1<br>21.98<br>0.0011<br>0.0007<br>-0.265E<br>U<br>2.67<br>3.11<br>3.48<br>4.11<br>4.55<br>5.63<br>6.17<br>7.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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2<br>2<br>-06<br>Y/DC<br>0.0010<br>0.0011<br>0.0015<br>0.0015<br>0.0015<br>0.0015<br>0.0016<br>0.0016<br>0.0016<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0010<br>0.0000<br>0.0010<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.00000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.0000<br>0.00000<br>0.00000<br>0.000000 | Z= C<br>D1 = C<br>D2 = C<br>D2 = 12<br>D95 = 12<br>D95 = 12<br>D95 = 12<br>C = | <ul> <li></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| RUN: 1<br>CF/2=<br>F<br>K<br>V<br>0.007<br>0.007<br>0.015<br>0.015<br>0.015<br>0.015<br>0.027<br>0.027<br>0.027<br>0.027<br>0.027<br>0.027<br>0.027                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11571-1<br>22.90<br>0.00011<br>0.0007<br>-0.336E-<br>U<br>U<br>2.53<br>2.93<br>3.40<br>4.05<br>5.16<br>6.70<br>7.15<br>7.65<br>8.70<br>7.15<br>7.89<br>8.72<br>9.30<br>9.92<br>10.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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X-34.<br>y/DC<br>0.0007<br>0.0012<br>0.0014<br>0.0014<br>0.0016<br>0.0021<br>0.0023<br>0.0023<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0.0024<br>0                                                                 | Z = C<br>D1 = 2<br>D2 = 2<br>D9 = 1<br>U/UI<br>0.1111<br>0.1128<br>D.149<br>0.1177<br>0.225<br>0.3122<br>0.312<br>0.312<br>0.312<br>0.381<br>0.466<br>0.453<br>0.453<br>0.507                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | = 2344.<br>= 1,637<br>=10,913<br>TAULAW<br>0.001114<br>0.001114<br>0.001042<br>0.00114<br>0.001042<br>0.00146<br>0.000468<br>0.000468<br>0.000468<br>0.000468<br>0.000468<br>0.000265<br>0.000265                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RUN: 1<br>UI -<br>F/F/2=<br>F/ =<br>K -<br>K -<br>V<br>0.010<br>0.012<br>0.016<br>0.016<br>0.016<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.025<br>0.033<br>0.045<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0.055<br>0. | 11571-1<br>21.98<br>0.0011<br>0.0007<br>-0.265E<br>U<br>7.67<br>3.111<br>5.625<br>5.617<br>7.99<br>8.654<br>9.526<br>10.569<br>10.569                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2 2<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Z= 0<br>D1 = 0<br>D2 = 1<br>D3 = 1<br>D3 = 1<br>D3 = 1<br>D3 = 1<br>C = 12<br>D3 = 1<br>C = 12<br>D3 = 1<br>C = 12<br>D3 = 1<br>C = 12<br>C                                                                                                                                                                                                                                                                                                                                                                        | 2.<br>2.260<br>2.250<br>2.250<br>2.250<br>2.565<br>2.5.65<br>2.5.65<br>2.4.15<br>2.3.09<br>-23.09<br>-23.09<br>-21.40<br>-15.97<br>-15.97<br>-15.95<br>-14.97                                                         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BETA<br>NP+<br>VC+<br>3.8<br>4.63<br>6.1<br>6<br>7.67<br>10.55<br>117.55<br>117.55<br>117.4<br>250.19<br>252.1<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5<br>125.5 | $= \frac{1}{1} + \frac{1}{100} + \frac{1}$                                                                                                                                                                                              | TAU<br>3.00124<br>0.00125<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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WULAP<br>0.670070<br>0.670370<br>0.670370<br>0.670370<br>0.670370<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67036<br>0.67037<br>0.67036<br>0.67036<br>0.67037<br>0.67036<br>0.67037<br>0.67036<br>0.67037<br>0.67036<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67037<br>0.67737<br>0.67737<br>0.67737<br>0.67737<br>0.67737<br>0.67737<br>0.67737<br>0.67736<br>0.67737<br>0.67736<br>0.67736<br>0.67736<br>0.67747<br>0.67736<br>0.67746<br>0.67746<br>0.67747<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.67746<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.77747<br>0.777777<br>0.7777777<br>0.77 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| "UN: 1<br>UI = CF/2=<br>F = K<br>Y<br>0.007<br>0.013<br>0.013<br>0.013<br>0.013<br>0.013<br>0.020<br>0.027<br>0.020<br>0.027<br>0.037<br>0.020<br>0.027<br>0.037<br>0.020<br>0.027<br>0.037<br>0.020<br>0.027<br>0.037<br>0.020<br>0.021<br>0.021<br>0.020<br>0.021<br>0.021<br>0.020<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.021<br>0.00 | 11571-1<br>22.90<br>0.00014<br>0.00074<br>-n.336f-<br>U<br>2.53<br>2.93<br>3.40<br>4.65<br>5.16<br>6.00<br>6.70<br>7.15<br>7.88<br>9.10<br>4.65<br>7.89<br>9.10<br>4.65<br>11.60<br>11.60<br>11.60<br>11.65<br>13.41<br>12.61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | X-34.<br>Y/DC<br>0.6009<br>0.0012<br>0.6001<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0.0014<br>0                                                                 | Z = C<br>D1 = 2<br>D2 = 5<br>D2 = 5<br>D39 = 1<br>U/UI<br>0.111<br>0.203<br>0.265<br>0.265<br>0.381<br>0.453<br>0.453<br>0.453<br>0.453<br>0.537<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.545<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555 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                                                   | FD2<br>H<br>3 G<br>7<br>TAU<br>0.00129<br>0.00131<br>0.00131<br>0.00141<br>0.00141<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00155<br>0.00164<br>0.00165<br>0.00164<br>0.00165<br>0.00164<br>0.00165<br>0.00164<br>0.00165<br>0.00164<br>0.00165<br>0.00164<br>0.00165<br>0.00164<br>0.00165<br>0.00165<br>0.00216<br>0.00217                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2744.<br>1,307<br>10,313<br>TAULAM<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RUN: 1<br>UI -<br>F/F/2-<br>F/2-<br>K -<br>V<br>0.010<br>0.012<br>0.014<br>0.014<br>0.010<br>0.023<br>0.041<br>0.010<br>0.023<br>0.041<br>0.010<br>0.023<br>0.041<br>0.033<br>0.041<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.050<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.051<br>0.050000000000                                                  | 11571-1<br>21.68<br>0.0011<br>0.0010<br>-0.245E<br>U<br>U<br>2.47<br>3.11<br>3.41<br>4.16<br>4.55<br>5.57<br>5.57<br>7.54<br>4.16<br>4.16<br>10.26<br>10.26<br>10.26<br>11.60<br>512.57<br>11.60<br>5.57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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2.<br>2.4105<br>2.2561<br>2.2591<br>2.2529<br>1.6937<br>-25.65<br>-25.15<br>-25.515<br>-24.30<br>-24.30<br>-23.69<br>-22.33<br>-21.40<br>-23.69<br>-22.33<br>-16.97<br>-15.35<br>-14.91<br>-13.246<br>-14.11<br>-13.246<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-14.75<br>-15.75<br>-14.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75<br>-15.75 | AFTA           B           P+           VA+           3.8           5.3           6.6           5.3           12.5           15.6           15.4           25.1           3.4           2.5.1           12.5           13.4           2.5.1           13.4           2.5.1           3.4           2.5.1           3.6           3.7           13.4           13.4           13.4           13.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| . 2516.<br>. 1.401<br>-11.720<br>T.W(AM<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| *UN: 1<br>UI =<br>F =<br>F =<br>V<br>0.007<br>0.007<br>0.007<br>0.007<br>0.007<br>0.015<br>0.015<br>0.015<br>0.023<br>0.031<br>0.034<br>0.056<br>0.026<br>0.126<br>0.126<br>0.126<br>0.126<br>0.316<br>0.056<br>0.326<br>0.316<br>0.056<br>0.326<br>0.556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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11571-1<br>22.90<br>0.00016<br>0.00016<br>2.53<br>2.93<br>3.94<br>3.94<br>5.16<br>6.70<br>5.16<br>6.70<br>5.16<br>6.70<br>5.16<br>6.70<br>7.88<br>8.72<br>9.30<br>10.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11.40<br>11. | X=34.<br>Y/DC<br>0.0009<br>0.0014<br>0.00014<br>0.0014<br>0.0014<br>0.0014<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021                                                                     | Z • C<br>D1 • C<br>D2 • C<br>D3 • C                                                                                                                                                                                                                                                                                                                                                                               | -<br>- 31 68<br>- 1980<br>- 2158<br>- 2158<br>- 2258<br>- 23.97<br>- 25.36<br>- 23.98<br>- 23.98<br>- 23.98<br>- 23.98<br>- 23.98<br>- 21.66<br>- 20.57<br>- 21.66<br>- 17.28<br>- 16.493<br>- 17.28<br>- 12.98<br>- 7.98<br>- 7.9 | BETA<br>B<br>P+<br>Vr+<br>2.7 5<br>3.6.3<br>5.9<br>6.8<br>8<br>5.9<br>6.8<br>8<br>5.9<br>6.8<br>8<br>5.2<br>15.3<br>22.6.7<br>3<br>8.0<br>9.2<br>112.5<br>3<br>15.3<br>22.6.7<br>3<br>8.0<br>112.5<br>3<br>5.1<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>22.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>115.2<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5.7<br>2.5 | - 1.006<br>- 0.007<br>- 0                                                                                                                               | F D2<br>H<br>H<br>J<br>O, 00129<br>O, 00131<br>O, 00131<br>O, 00141<br>O, 00141<br>O, 00141<br>O, 00145<br>O, 00216<br>O, 00216<br>O, 00225<br>O, 00222<br>O, 00222<br>O, 00222<br>O, 00222<br>O, 00222                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | = 2744.<br>= 1,510<br>= 1,510<br>= 10,213<br>TaijLAW<br>0.001114<br>0.001144<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.001242<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00124<br>0.00144<br>0.00124<br>0.00124<br>0.001                                                                                                                                                                                  | RUN: 1<br>UI =<br>F /2-<br>F =<br>K =<br>V 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(c) non<br>. (c) n                                                                                   |
| *UN: 1<br>UI = CF72=<br>F = F<br>V<br>0.007<br>0.004<br>0.007<br>0.003<br>0.017<br>0.020<br>0.026<br>0.026<br>0.026<br>0.056<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.126<br>0.10 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11571-1<br>22.90<br>0.00011<br>0.0007<br>-n.336E-<br>U<br>2.53<br>2.93<br>4.05<br>4.05<br>5.16<br>6.70<br>7.15<br>7.88<br>8.72<br>9.92<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60<br>11.60     | X=34.<br>Y/DC<br>0.0007<br>0.0017<br>0.0017<br>0.0018<br>0.0018<br>0.0021<br>0.0018<br>0.0021<br>0.0018<br>0.0021<br>0.0018<br>0.0021<br>0.0014<br>0.0016<br>0.0025<br>0.0284<br>0.0444<br>0.016<br>0.018<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.028<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038<br>0.038 | I + C<br>D1 + 2<br>DC + 2<br>DC + 2<br>DC + 2<br>C                                                                                                                                                                                                                                                                                                      | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BE TAL<br>B<br>P+<br>V P+<br>V P+<br>V P+<br>V P+<br>V P+<br>V P+<br>V P+<br>V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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5.007<br>J.<br>3.77<br>4.32<br>5.97<br>11.39<br>11.39<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49<br>11.49 | F D2<br>F D2 | = 2344.<br>= 1.630<br>=10.313<br>TAULAW<br>c.c(1173<br>c.c(1173<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174<br>c.c(1174)<br>c.c(1174<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c(1174)<br>c.c | RUN: 1<br>VI<br>F /2-<br>F -<br>K -<br>K -<br>V<br>V<br>0.010<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.012<br>0.023<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.015<br>0.023<br>0.023<br>0.023<br>0.023<br>0.023<br>0.051<br>0.050<br>0.050<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.052<br>0.05 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),<br>1.4100<br>1.2701<br>1.2701<br>1.2701<br>1.2701<br>1.2529<br>1.6037<br>1.2529<br>1.6037<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45<br>1.25.45                                                       | aFTA<br>N<br>P+<br>V0+<br>3.8<br>6-1<br>5-2.1<br>13.4<br>6-3<br>5-2.1<br>13.4<br>6-7<br>5-2.1<br>13.4<br>6-7<br>5-2.1<br>13.2<br>200.9<br>355.0<br>400.4<br>67.3<br>352.5<br>400.4<br>67.5<br>113.4<br>8<br>66.5<br>57.6<br>113.4<br>67.5<br>57.6<br>57.6<br>57.6<br>57.6<br>57.6<br>57.6<br>57.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | F (2)<br>H<br>H<br>1 5<br>5<br>TAU<br>0.00124<br>0.00124<br>0.00137<br>0.00137<br>0.00137<br>0.00137<br>0.00144<br>0.00140<br>0.00145<br>0.00165<br>0.00165<br>0.00165<br>0.00213<br>0.00123<br>0.00186<br>0.00220<br>0.002210<br>0.002210<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00224<br>0.00132<br>0.00132<br>0.00132<br>0.00144<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00145<br>0.00225<br>0.00220<br>0.002210<br>0.00220<br>0.002210<br>0.0015<br>0.0015<br>0.00220<br>0.002210<br>0.002210<br>0.0015<br>0.00120<br>0.00145<br>0.00145<br>0.00145<br>0.00125<br>0.00220<br>0.002210<br>0.00210<br>0.0015<br>0.0015<br>0.00220<br>0.00210<br>0.00210<br>0.00210<br>0.00210<br>0.00210<br>0.00210<br>0.00210<br>0.00210<br>0.00210<br>0.000210<br>0.000210<br>0.000210<br>0.000210<br>0.000210<br>0.000210<br>0.000210<br>0.000210<br>0.0000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | . 2514.<br>. 1.4 1<br>. 1.4 2<br>. 1.4 1<br>. 1.4 2<br>. 1 |

PUN: 111571-1 X=10. Z= 0.

RUN: 111571-1 X=22. Z= 0.

| RUN: 1                                    | 11571-1                                   | X=58                                           | . Z= (                                    | ο.                                             |                                           |                                           |                                                     |                                                                      | RUN: 1                                    | 11571-1                                   | X=70.                                          | • Z= (                                    |                                                |                                           |                                           |                                                                |                                                                      |
|-------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| U1<br>CF/2<br>F                           | 21.19<br>0.0010<br>0.0007<br>-0.2186      | 8<br>0<br>-06                                  | 01 = 1<br>02 = 1<br>0C = 1<br>099 =       | 0.4846<br>0.3054<br>4.7476<br>1.9937           | 86 TA<br>8<br>9+<br>V0+                   | <pre>1.072 0.648 0.006 0.021</pre>        | FD2<br>H<br>1 G<br>3                                | = 3345.<br>= 1.507<br>=11.254                                        | UT =<br>CF/2=<br>F =<br>K =               | 20.61<br>0.0010<br>0.0006<br>-0.184E      | 5<br>7<br>-06                                  | D1 = 0<br>D2 = 0<br>DC =11<br>D99 = 4     | 7.5600<br>3.3556<br>7.2852<br>2.3843           | 8 E T A<br>8<br>9 +<br>V O +              | 1.046<br>0.638<br>0.075<br>0.020          | RCZ<br>H<br>4 G<br>7                                           | ■ 3789. ■ 1.575 ■ 11.765                                             |
| Y                                         | υ                                         | ¥70C                                           | 0/01                                      | {0-0[370                                       | * Y+                                      | U+                                        | TAU                                                 | TAULAM                                                               | Y                                         | U                                         | Y/DC                                           | 0701                                      | (0-01170                                       | Y+                                        | U+                                        | TAU                                                            | TAULAM                                                               |
| 0.016<br>0.018<br>0.020<br>0.022<br>0.025 | 3.20<br>3.53<br>4.02<br>4.36<br>5.07      | 0.0011<br>0.0012<br>0.0014<br>0.0015<br>0.0017 | 0.151<br>0.167<br>0.190<br>0.205<br>0.239 | -25.84<br>-25.36<br>-24.66<br>-24.18<br>-23.15 | 5.8<br>6.5<br>7.2<br>7.9<br>9.0           | 4.60<br>5.07<br>5.78<br>6.26<br>7.28      | 0.00122<br>0.00124<br>0.00126<br>0.00128<br>0.00131 | 0.000865<br>0.000867<br>0.000867<br>0.000869<br>0.000813             | 0.012<br>0.014<br>0.016<br>0.018<br>0.020 | 2.54<br>2.92<br>3.27<br>3.74<br>4.25      | 0.0007<br>0.0008<br>0.0009<br>0.0010<br>0.0012 | 0.123<br>0.142<br>0.159<br>0.181<br>0.206 | -27.06<br>-26.49<br>-25.97<br>-25.27<br>-24.50 | 4.1<br>4.8<br>5.5<br>6.2<br>6.9           | 3.81<br>4.37<br>4.90<br>5.60<br>6.37      | 0.06116<br>0.06117<br>0.06119<br>0.06119<br>0.06121<br>0.06123 | 0.000937<br>0.000930<br>0.000923<br>0.000923<br>0.000922<br>0.701880 |
| 0.029<br>0.034<br>0.040<br>0.049<br>0.061 | 5.78<br>6.44<br>7.36<br>7.95<br>8.70      | 0.0020<br>0.0023<br>0.0027<br>0.0033<br>0.0041 | 0.273<br>0.304<br>0.347<br>0.375<br>0.411 | -22.13<br>-21.18<br>-19.86<br>-19.02<br>-17.94 | 10.4<br>12.2<br>14.4<br>17.6<br>22.0      | 8.31<br>9.25<br>10.57<br>11.42<br>12.49   | 0.00134<br>0.00137<br>0.00141<br>0.00145<br>0.00150 | 0.000565<br>0.000565<br>0.000436<br>0.000436<br>0.000313<br>0.000216 | 0,023<br>0.027<br>0.032<br>0.039<br>0.048 | 4.69<br>5.52<br>5.94<br>6.70<br>7.72      | 0.0013<br>0.0016<br>0.0019<br>0.0023<br>0.0028 | 0.228<br>0.268<br>0.288<br>0.325<br>0.375 | -23.84<br>-22.60<br>-21.97<br>-20.83<br>-19.30 | 7.9<br>9.3<br>11.0<br>13.5<br>16.6        | 7.02<br>8.27<br>8.90<br>10.03<br>11.57    | 0.06125<br>0.00128<br>0.06130<br>0.06134<br>0.06139            | 0.000661<br>0.000537<br>0.000537<br>0.000419<br>0.000307             |
| 0.076<br>0.096<br>0.121<br>0.156<br>0.211 | 9.31<br>9.80<br>10.33<br>10.85<br>11.24   | 0.0052<br>0.0065<br>0.0082<br>0.0106<br>0.0143 | 0.439<br>0.463<br>0.488<br>0.512<br>9.531 | -17.06<br>-16.36<br>-15.59<br>-14.86<br>-14.29 | 27.4<br>34.6<br>43.6<br>56.2<br>75.9      | 13.37<br>14.08<br>14.64<br>15.59<br>16.15 | 0.00154<br>0.00159<br>0.00165<br>0.00172<br>0.00180 | C.CC3148<br>A.COA164<br>C.OCA076<br>C.COCA57<br>D.AC2045             | 0.062<br>0.082<br>0.112<br>0.152<br>0.207 | 8.31<br>8.98<br>9.69<br>10.15<br>10.67    | 0.0036<br>0.0047<br>0.0065<br>0.0088<br>0.0120 | 0.403<br>0.436<br>5.470<br>0.493<br>0.518 | -18.42<br>-17.41<br>-16.35<br>-15.66<br>-14.99 | 21.4<br>28.3<br>30.7<br>52.5<br>71.4      | 12.45<br>13.46<br>14.51<br>15.21<br>15.98 | 0.00148<br>0.00148<br>0.00155<br>0.00161<br>0.00161<br>0.00161 | 0.000214<br>0.000133<br>0.000083<br>0.000059<br>0.000059             |
| 0.286<br>0.361<br>0.436<br>0.511<br>0.611 | 12.64<br>13.24<br>13.53<br>14.33          | 0.0194<br>D.C245<br>0.0296<br>0.0346<br>0.0414 | 0.57D<br>0.596<br>0.625<br>0.639<br>0.676 | -13.08<br>-12.28<br>-11.42<br>-11.00<br>-9.86  | 102.9<br>129.9<br>156.9<br>183.9<br>219.9 | 17.36<br>15.15<br>19.01<br>19.44<br>20.57 | 0.00193<br>0.00203<br>0.00211<br>0.00215<br>0.00222 | 0.000036<br>0.000033<br>0.000030<br>0.000028<br>0.000027             | 0.282<br>0.357<br>0.432<br>0.507<br>0.607 | 11.45<br>11.61<br>12.37<br>12.56<br>13.35 | 0.0163<br>0.0207<br>0.0250<br>0.0293<br>0.0351 | 0.556<br>0.573<br>0.600<br>0.629<br>0.648 | -13.72<br>-13.17<br>-12.34<br>-11.46<br>-10.88 | 97.3<br>123.2<br>149.1<br>175.0<br>209.5  | 17.15<br>17.69<br>16.53<br>19.41<br>19.99 | 0.06182<br>0.06192<br>0.06201<br>0.06210<br>0.06216            | 0.000032<br>0.000032<br>0.000028<br>0.000028<br>0.000026<br>0.000025 |
| 0.711<br>0.811<br>0.936<br>1.061<br>1.211 | 14.84<br>15.47<br>16.19<br>16.93<br>17.74 | 0.0482<br>0.0550<br>0.0635<br>0.0719<br>0.0821 | 0.700<br>0.730<br>0.764<br>0.799<br>0.837 | -9.12<br>-8.22<br>-7.18<br>-6.12<br>-4.96      | 255.9<br>291.9<br>336.9<br>381.9<br>435.9 | 21.31<br>22.22<br>23.26<br>24.31<br>25.49 | 0.00223<br>0.00222<br>0.00214<br>0.00202<br>0.00182 | 0.000026<br>0.000026<br>0.000025<br>0.000023<br>0.000023             | 0.707<br>0.832<br>0.957<br>1.082<br>1.207 | 13.85<br>14.51<br>15.08<br>15.80<br>16.43 | 0.0409<br>0.0481<br>0.0554<br>0.0626<br>0.0698 | 0.672<br>0.704<br>0.732<br>0.767<br>0.797 | -10.13<br>-9.13<br>-6.27<br>-7.20<br>-6.26     | 244.0<br>267.1<br>330.3<br>373.4<br>415.6 | 20.74<br>21.74<br>27.59<br>23.67<br>24.61 | 0.0C219<br>0.0C221<br>0.0C219<br>0.0C217<br>0.0C217            | 0.000024<br>0.000024<br>0.000023<br>0.000022<br>0.000023             |
| 1.361<br>1.511<br>1.661<br>1.811<br>2.011 | 18,56<br>19,28<br>19,90<br>20,50<br>21,02 | 0.0923<br>0.1025<br>0.1126<br>0.1228<br>0.1364 | C.876<br>C.910<br>C.939<br>D.967<br>O.992 | -3.78<br>-2.74<br>-1.86<br>-0.99<br>-0.24      | 489.9<br>543.9<br>597.9<br>651.8<br>723.8 | 26.65<br>27.69<br>26.58<br>29.44<br>30.19 | 0.00158<br>0.00125<br>0.00092<br>0.00067<br>0.00040 | C.000021<br>0.000019<br>0.000015<br>0.000012<br>0.000012<br>0.000007 | 1.357<br>1.507<br>1.657<br>1.807<br>2.007 | 17.05<br>17.66<br>18.38<br>18.96<br>19.66 | 0.0785<br>0.0872<br>0.0959<br>0.1045<br>0.1161 | 0.827<br>0.857<br>0.992<br>0.920<br>0.954 | -5.33<br>-4.41<br>-3.33<br>-2.47<br>-1.42      | 468.3<br>520.1<br>571.9<br>623.6<br>692.7 | 25.54<br>26.45<br>27.54<br>28.39<br>29.45 | 0.00171<br>0.00171<br>0.00149<br>0.00120<br>0.00082            | 0.000021<br>9.000019<br>0.000019<br>0.000019<br>0.000019             |
| 2.211<br>2.411<br>2.711                   | 21.20<br>21.22<br>21.19                   | 0.1499<br>0.1635<br>0.1858                     | 1.001<br>1.001<br>1.000                   | 0.02<br>0.03<br>0.00                           | 795.8<br>867.8<br>975.8                   | 30.45<br>30.47<br>30.43                   | 0.00017<br>0.00000<br>0.00000                       | n.000003<br>0.000000<br>0.000000                                     | 2.207<br>2.507<br>2.807<br>3.107          | 20.15<br>20.58<br>20.64<br>20.61          | 0.1277<br>0.1450<br>0.1624<br>0.1797           | 0.978<br>0.999<br>1.001<br>1.000          | -C.69<br>-0.04<br>0.05<br>0.00 1               | 761.7<br>865.2<br>968.8<br>072.3          | 50.17<br>36.82<br>36.91<br>56.87          | C.CCD49<br>0.00017<br>0.CCD00<br>C.CCD00                       | 0.000004<br>0.0000064<br>0.000001<br>0.000001                        |

| RUN: 1 | 11571-1 | X=82    | . z= (   | n.       |                |         |         |            | RUNI   | 111571-1 | X=90   | • Z• · | o.       |        |                            |       |                  |
|--------|---------|---------|----------|----------|----------------|---------|---------|------------|--------|----------|--------|--------|----------|--------|----------------------------|-------|------------------|
|        | 20.23   |         | 01 = 6   | 0.6275   | BETA           | • 1.00Z | R.0.2   | = 4775.    | UT •   | 20.09    |        | 01 .   | 0.6719   | 8574   | = 1.00£                    | ¢ D 2 | = 45 <u>06</u> . |
| CE/2=  | 0.0010  | 2       | 02 *     | 0.4040   | 8              | = C.635 | n       | = 1.553    | CF/2+  | 0.0010   | 1      | 02 = 4 | 0.4339   | 8      | * 6.636                    | н     | ≈ 1.54P          |
| F .    | 0.0006  | 5       | DC =1    | 9.6277   | P +            | . 0.004 | 9 G     | =11.143    | F •    | 0.0006   | 4      | DC =2  | 1.1867   | P+     | = 0.0045                   | G     | *Il.l/S          |
| × =    | -0.156E | -06     | 099 -    | 7.6869   | ¥0+            | 0.020   | 3       |            | К =    | -0.1458  | -05    | D99 -  | 2.9187   | VC+    | <ul> <li>0.0202</li> </ul> |       |                  |
|        |         |         |          |          |                |         |         |            |        |          |        |        |          |        |                            |       |                  |
| ۲      | υĺ      | Y/DC    | 0701     | (0-01)/0 | J <b>ŧ ¥</b> ∔ | U+      | TAU     | TAULAM     | ۲      | U        | Y/DC   | 9701   | (0-01)/0 | * ¥+   | U+                         |       | TAULAN           |
| 0.015  | 2.86    | 0.0008  | 0.141    | -26.85   | 5.0            | 4.43    | 0.00114 | h.000885   | 0.014  | 2.86     | 0.007  | 0.143  | -27.04   | 4.5    | 4.49                       |       | 0.000966         |
| 0.017  | 3.29    | 0.0009  | 0.162    | -26.20   | 5.7            | 5.09    | 0.00115 | 0.000478   | 0.016  | 3.34     | 0.0007 | ].166  | -26.30   | 5.2    | 5.24                       |       | 0.000951         |
| 0.019  | 3.61    | 0.0010  | 0.179    | -25.69   | 6.4            | 5.59    | 0.00117 | 0.000872   | 0.018  | 3.79     | 0.0008 | 0.188  | -25.59   | 5.9    | 5.94                       |       | n. ccr935        |
| 0.021  | 4.05    | 0.0011  | 0.200    | -25.02   | 7.0            | 6.25    | 0.00119 | 0.000884   | 0.020  | 4.07     | 0.0009 | 0.203  | -25.15   | 0.5    | 6.39                       |       | 0.000901         |
| 0.024  | 4.48    | 0.0012  | 0.221    | -24.36   | 8.0            | 6.92    | 0.00120 | 0.00000    | 0.023  | 4.72     | 0.0011 | 0.235  | -24.13   | 7.5    | 7.*^                       |       | 0.002388         |
| 0.028  | 5.28    | 0.0014  | 0.261    | -23.17   | 9.4            | 8.16    | 0.00124 | 0.000687   | 0.027  | 5.39     | 0.0013 | 0.208  | -23.09   | 8.8    | 8.45                       |       | 0.000648         |
| 0.011  | 6.05    | 0.0017  | 0.299    | -21.93   | 11.0           | 9.35    | 0.00127 | 0.000564   | 0.032  | 5.91     | 0.0015 | 0.294  | -22.25   | 10.5   | 9.29                       |       | 0.000521         |
| 0.040  | 6.60    | 0.0020  | 0.326    | -21.07   | 13.4           | 10.21   | 0.00130 | 0.000443   | 0.039  | 6.62     | 0.0018 | C.329  | -21.15   | 12.8   | 16.37                      |       | 0.000390         |
| 0.050  | 7.30    | 0.0025  | 0.361    | -19.99   | 16.7           | 11.29   | 0.00133 | 0.000300   | 0.049  | 7.14     | 0.0023 | 0.356  | -20.32   | 16.1   | 11.27                      |       | C+CCC284         |
| 0.064  | R.38    | 0.0033  | 0.414    | -18.33   | 21.4           | 12.95   | 0.00138 | 0.00205    | 0.064  | 8.04     | 0.0030 | 0.490  | -18.91   | 21.0   | 12.67                      |       | 0.000197         |
| 0.081  | 8.81    | 0.0041  | 0 - 6 36 | -17.66   | 27.1           | 13.62   | 0.00142 | 0.000144   | 0.084  | 8,79     | 0.0040 | 0.437  | -17.74   | 27.6   | 13.75                      |       | 0.00134          |
| 0.106  | 9.44    | 0.0054  | 0.467    | -16.68   | 35.4           | 14.40   | 0.00147 | 0.000097   | 9,114  | 9,79     | 0.0054 | 0.463  | -16,95   | 37.5   | 14.59                      |       | 0,00089          |
| 0 146  | 0.73    | 0.0074  | 0.481    | -16.23   | 48.8           | 15.05   | 0.00152 | n.cr0362   | 0.164  | 9,97     | 0.0077 | 0.496  | -15.85   | 53.9   | 15.65                      |       | 0,000055         |
| 0.201  | 10.51   | 0.0102  | 0.520    | -15.02   | 67.2           | 16.24   | 6.00161 | 0.000047   | e. 239 | 10.57    | 0.0113 | 0.526  | -14.94   | 78.6   | 16.63                      |       | 0.00038          |
| 0.276  | 11.23   | 0.0141  | 0.555    | -13,92   | 92.3           | 17.30   | 0.00170 | 0.00036    | 0.314  | 11.18    | 0.0148 | 0.557  | -13.98   | 103.3  | 17.50                      |       | a.ccn030         |
|        | 11 44   | A A176  | A 674    | -13.75   | 117.3          | 18.03   | 0.00178 | 0.000029   | 0.389  | 11.57    | 0.0184 | 0.576  | -13.37   | 128.0  | 18.14                      |       | 0.00076          |
| A 434  | 12 12   | 0.0217  | 0.500    | -12.51   | 142.4          | 18.74   | 0.00185 | 0.000024   | 0.485  | 12.04    | 0.0231 | 0.599  | -12.64   | 101.0  | 10.00                      |       | 0.000024         |
| 0 #74  | 12 64   | 0 0.246 | 0.420    | -11.89   | 175.9          | 19.39   | 0.00190 | 0.00022    | 0.585  | 12.48    | 0.0278 | 0.621  | -11.95   | 193.9  | 19.57                      |       | 0+000022         |
| 0.920  | 12 04   | 0.0200  | 0.640    | -11.27   | 20.0.3         | 20.01   | 0.00195 | 0.000022   | 0.714  | 12.97    | 0.0337 | 0.646  | -11.17   | 235.1  | 20,36                      |       | 0.000021         |
| 0.751  | 13.33   | 0.0383  | 0.659    | -10.67   | 251.1          | 20.61   | 0.00200 | 0.00021    | 0.839  | 13.63    | 0.0396 | 0.678  | -10.14   | 276.2  | 21.34                      |       | 0.000721         |
| A 874  | 14 04   | D F444  | 0 6 96   | -0.57    | 797.9          | 21.71   | 0.00208 | 0.000021   | 0.964  | 14.02    | 0.0455 | 0.698  | - 9+ 52  | 317.4  | 22.01                      |       | 0.000020         |
| 1 001  | 14 71   | 0.0510  | 0.077    | - 8 56   | 334.7          | 22.76   | 0.00209 | 0.000021   | 1.114  | 14.70    | 0.0526 | 0.732  | - 8.45   | 366.8  | 23.03                      |       | 0.000019         |
| 1.001  | 1       | 0.0510  | 0.750    | - 7 - 91 | 104 9          | 23 47   | 0.00203 | 0-0020     | 1.264  | 15.29    | 0.0597 | 0.761  | -7.53    | 416.2  | 24.0*                      |       | 0.000018         |
| 1.151  | 12.10   | 0.0360  | 0.790    | - 1.01   | 435.0          | 24.44   | 0.00195 | 0.00019    | 1.464  | 16.06    | 0.0691 | 0.600  | - 6. 32  | 482.0  | 25.21                      |       | 0.000017         |
| 1.501  | 16.67   | 0.0765  | 0.824    | - 5. 51  | 501.8          | 25.77   | 0.00187 | 0.000018   | 1.664  | 16.54    | 0.0785 | C.828  | -5.41    | 547.9  | 20.12                      |       | 0.00016          |
| 1.701  | 17.23   | 0.0867  | 0.852    | -4.63    | 568.7          | 26.04   | 0.00161 | 0.000017   | 1.914  | 17.57    | 0.0903 | 0.875  | - 3. 95  | 630.2  | 27.54                      |       | 9.000014         |
| 1 001  | 18.10   | 0.0969  | 0.894    | - 3. 30  | 635.6          | 27.98   | 0.00137 | 0.000015   | 2.214  | 18.47    | 0.1045 | C.920  | - 2. 54  | 729.0  | 29.00                      |       | 0.00012          |
| 2.101  | 18.74   | 0.1070  | 0.927    | -2.27    | 702.4          | 29.01   | 0.00104 | 5.000013   | 2.514  | 19.24    | 0.1186 | 5.958  | -1.34    | 827.8  | 20.20                      |       | 0.000009         |
| 2 401  | 19.51   | 0.1223  | 0.965    | -1.08    | 802.7          | 30.20   | 0.00053 | n.cronc9   | 2.814  | 19.80    | 0.1328 | 0.986  | -0,45    | 926.6  | 31.08                      |       | 0.00006          |
| 2.701  | 20.05   | 0.1376  | 0.991    | -0.27    | 903.0          | 31.00   | 0.00018 | 0.00005    | 3.114  | 20.05    | C.1470 | 0,998  | -0.07    | 1025.4 | 31.47                      |       | 0.000003         |
| 3.001  | 20.23   | 0.1529  | 1.000    | -0.00    | 1003.3         | 31.27   | 0.00001 | n.ccobc2   | 3.514  | 20.09    | 0.1658 | 1.000  | 0.01     | 1157.1 | 31.54                      |       | 100011.0         |
| 3, 301 | 20.26   | 0.1682  | 1.001    | 0.04     | 1133.6         | 31.32   | 0.00000 | -n. orened | 3.914  | 20.09    | 0,1847 | 1,000  | 0.00     | 1268.8 | 31.53                      |       | 0+00400C         |
| 3.601  | 20.23   | 0.1835  | 1.000    | 0.00     | 1203.9         | 31.28   | 0.00000 | 0.000000   |        |          |        |        |          |        |                            |       |                  |
|        |         |         |          |          |                |         |         |            |        |          |        |        |          |        |                            |       |                  |

\$

| R UN : | 91771-2 | 2 X= Z  | • Z= · | o.       |        |                  |     |            | RUN:   | 91771-2 | X=10   | 7.            | r.          |       |                  |         |            |
|--------|---------|---------|--------|----------|--------|------------------|-----|------------|--------|---------|--------|---------------|-------------|-------|------------------|---------|------------|
| UI =   | 29.49   |         | 01 .   | 0.7671   | BETA   | - U.167          | FDZ | × 555.     | - 10   | 26.89   |        | 01 -          | 0,1337      | BETA  | 3.96B            | RDZ     | = 1090.    |
| CF/2-  | 0.0024  | 9       | DZ = 1 | a.0376   | 8      | = 7 <b>.</b> 398 | н   | = 1.6ul    | CF/2*  | 9.0011  | 13     | D2 =          | n, n809     | P 1   | • ? <b>•</b> 572 | н       | = 1.053    |
| f =    | 0.000   | 99      | DC =   | 1.2053   | P+     | = 0.N94          | G   | 7.523      | F =    | 0.0009  | 19     | CC =          | 3.2151      | P+ •  | 0.012            | G       | = 9,501    |
| К =    | -0.4678 | -06     | 059 -  | 0.3197   | V0+    | · 0.920          |     |            | к =    | -1.8728 | -66    | 094 -         | • • • • 3 3 | AG+ 1 | n.nz4            |         |            |
| ۲      | υ       | Y/DC    | u/UI   | (0+01)70 | • +    | U۴               |     | TAULAN     | Y      | U       | ¥/0C   | u/uI          | (U-UT)/U+   | ٧+    | U+               | TAU     | TAULAN     |
| 3.064  | 4.56    | 0.0036  | 7.155  | -16.94   | 3.2    | 3.10             |     | 6.001906   | 0.005  | 3.37    | 0.0016 | 0.125         | -21.03      | 7.8   | 3.61             | 0.00191 | 0.001422   |
| 6.075  | 4.84    | 0.1 044 | 0.164  | -16,75   | 3.9    | 3. 29            |     | 0.007830   | 0.006  | 3.43    | 0.0019 | A.125         | -20.97      | 3.4   | 3. 77            | 0.00193 | ú. Cúl 369 |
| 0.00.6 | 5.42    | 3+1 652 | 0.184  | -16.36   | 4.6    | 3.68             |     | 0.001753   | 0.057  | 3.79    | 0.0022 | n.141         | -20.65      | ۹,9   | 3.39             | 0.00195 | 0.0.1314   |
| 0.007  | 6.04    | 0.0061  | 9.205  | -15.94   | 5.4    | 4.10             |     | 0.001626   | 0.008  | 4.24    | 2.0025 | 0,158         | -20.25      | 4.5   | 3.79             | 0.00198 | 0.001157   |
| 6.009  | 7.66    | 3.077   | 5.260  | -14.84   | 6.9    | 5.20             |     | 4.001059   | 0.010  | 5.03    | 0.0031 | 0.187         | -10,54      | 5.6   | 4.50             | 0.00203 | 5.001250   |
| 0.011  | 9.18    | 0.0094  | 0.311  | -13.80   | A. 3   | 6.24             |     | 0.ŪU1552   | 0.013  | 6.58    | 0.0040 | n.245         | -18.16      | 7.3   | 5.88             | 0.00211 | 0.001113   |
| 0.014  | 11.13   | 0.0119  | 0.378  | -12.47   | 11.5   | 7.57             |     | 0.001270   | 0.017  | 8.19    | 0.0053 | n.304         | -16.72      | 9.5   | 7.32             | 0.00221 | 0.0008/1   |
| 7.017  | 12.74   | 0.0344  | 3.432  | -11.38   | 12.9   | R. 66            |     | 0.061057   | 0.021  | 9.44    | 0.0065 | 0.351         | -15,60      | 11.8  | 8. 44            | 0.00229 | 0.000713   |
| 0.020  | 14.23   | 0.0168  | n.482  | -10.37   | 15.0   | 9.67             |     | 0.003852   | 0.026  | 1^.49   | 0.0681 | 0.390         | -14.56      | 14.6  | 9.38             | 0.00235 | 0.003544   |
| 0.023  | 15.02   | 3.0193  | 0.509  | - 9. 94  | 17.2   | 16.21            |     | 0.000705   | 0.034  | 11.78   | 0.0106 | 1,438         | -13,51      | 19.0  | 10.53            | 0.00244 | 6.003379   |
| 3.027  | 16.25   | 0.0226  | 0.551  | -9,00    | 20+1   | 11+04            |     | U. 0U. 556 | 0.644  | 13.09   | 0.0137 | 0.487         | -12.34      | 24.7  | 11.70            | 0.00253 | 0.000258   |
| 0+031  | 17.06   | 0.5260  | 0.578  | -8.45    | 23.1   | 11.59            |     | 0.000435   | 3.059  | 14.14   | 0.0184 | n. 526        | -11.40      | 33.1  | 12.04            | 0.00259 | 0.000184   |
| 0+036  | 17.B7   | 0+0301  | 3.606  | -7.9r    | 26.0   | 12.14            |     | 0.003358   | J.079  | 15.14   | C.0246 | C+563         | -10.50      | 44.5  | 1                | 0.00262 | 0.000130   |
| 7.043  | 18.91   | ۰,٦359  | 0.641  | -7.19    | 31.9   | 12.85            |     | 0.000274   | 0.104  | 16+15   | 0.0323 | C+ 60C        | - 9.61      | 58+ 3 | 14.43            | 0.00260 | 0.000110   |
| 0.052  | 19.56   | C. 0434 | C. 663 | -6.75    | 38.6   | 13,79            |     | 0.00221    | n.134  | 17.23   | 0.(417 | 0.641         | -8.63       | /7.1  | 15.41            | 0.00234 | 0.00334    |
| 0.062  | 20.62   | 0,0517  | 0.699  | -6.03    | 45.9   | 14.01            |     | 0.063186   | 7.169  | 18.24   | 0.0526 | 0.678         | -7.74       | 94.7  | 16.31            | 0.00239 | 0.000087   |
| 3.077  | 21.61   | 0,0641  | 0.733  | -5.36    | 57.0   | 14.68            |     | 0.000154   | 0.209  | 19.50   | 0.0550 | 0.725         | -6.61       | 117.1 | 17.43            | 0.00219 | 0.000382   |
| 0.097  | 22.88   | 0.0907  | 0.776  | -4.50    | 71.7   | 15.54            |     | 0.003130   | 0.254  | 20.65   | 0.0790 | D.769         | -5,55       | 142.3 | ]8.49            | 0.00190 | 6.000071   |
| 3.122  | 24.16   | 0,1015  | 0.819  | -3.52    | 90.2   | 16.42            |     | 0.000136   | 0.304  | 22.06   | 0.7946 | C. 820        | -4.32       | 170.3 | 19.73            | 0.00163 | 0.303.71   |
| 0.147  | 25.23   | 0.1222  | J•855  | -2.90    | 108.6  | 17.14            |     | 0.003030   | a.354  | 23.39   | 0.1101 | r., 970       | -1.13       | 199.3 | 20,91            | 0.00141 | 0.000063   |
| v.172  | 26.18   | 5.1429  | 6,888  | -2.25    | 127.0  | 17.79            |     | 0. 06úu 76 | 0.434  | 24.57   | 0.1257 | 0.911         | -7.14       | 226+4 | 21. 91           | 0.00122 | 0,600052   |
| 0.202  | 27.12   | n.1678  | 0.919  | -1.62    | 140.1  | 18.42            |     | 0.303361   | 0.454  | 25.48   | 0.1412 | <b>~.94</b> 8 | -1.26       | 254.4 | 22.7B            | 0.00110 | 0.000040   |
| 0.232  | 27.94   | 0.1927  | 5.946  | -1.09    | 171.3  | 18,95            |     | u, Bubu 47 | 3.594  | 26.25   | 0.1568 | 0.976         | -0.58       | 287.4 | 23.47            | 0.00099 | 0.003328   |
| Ú.267  | 28.63   | d.2218  | Ú. 970 | -0.61    | 197.1  | 19.43            |     | 0.000033   | U. 564 | 26.75   | 0.1754 | 6.993         | -0.17       | 316.0 | 23.87            | 0.00074 | 0.00001    |
| 3.312  | 29.17   | 0.2591  | 6* 88d | -0.22    | 23n. Z | 19 <b>.</b> A2   |     | 0.000020   | 0.629  | 26.88   | n,1956 | 1.000         | -0.0        | 352.4 | 24.03            | 0.00040 | 0.003301   |
| 3.36Z  | 29.41   | 0.3006  | ù. 997 | -0.96    | 267.1  | 19.98            |     | 0.003310   | 3.704  | 26.91   | 0,2197 | 1.001         | 9.01        | 394.4 | 24.76            | 0.00000 | -0.000000  |
| 7.412  | 29,50   | 0.3421  | 1.000  | 0.00     | 374.0  | 20.04            |     | 0.063564   | 0.834  | 26.89   | C+2501 | 1.000         | - n•uo      | 459+5 | 24. 14           | 0.00000 | 0.000010   |
| 7.487  | 29.51   | 0.4043  | 1.000  | 0.01     | 359.2  | 27.05            |     | ·C.00JJJ2  |        |         |        |               |             |       |                  |         |            |
| 0.562  | 29.49   | 0.4665  | 1,000  | C.00     | 414.5  | 20.04            |     | 0.0000.0   |        |         |        |               |             |       |                  |         |            |

| RUNI  | 91771-2 | x = 2 Z  | . Z-   | n.       |        |          |          |            | R UN :         | 91771-  | 2 X=34           | . 2=   | <b>^.</b> |        |                |         |             |
|-------|---------|----------|--------|----------|--------|----------|----------|------------|----------------|---------|------------------|--------|-----------|--------|----------------|---------|-------------|
| ur =  | 24. 30  |          | 01 *   | 0.7442   | BETA   | a 1.055  | i 802    | - 1785.    | 11 <b>1 a</b>  | 22. RT  |                  | D1 + 1 | . 34 3 7  | aft.   |                |         |             |
| CE/2. | 0.0017  | A        | D2 -   | 0.1467   | 8      | - 7.725  | i H      | = 1.665    | CF/2           | 0.001   |                  | 0.2    | 2091      | 8      | = 0.911        |         | - 1 544     |
| F *   | 0.0010  | 0        | DC =   | 4.5737   | P+     | = P.017  | 6        | =10.750    | F .            | 0.001   | 0                | 00 +1  | 4105      | ě.     |                |         | -11 844     |
| к +   | -0.491  | -06      | 099 .  | 0.9489   | VC+    | = 0. 727 |          |            |                | -7. 152 | F-CA             | ngo .  | 1. 3671   | ¥0+    | . 0.030        |         | +11,000     |
|       | •••••   |          |        |          |        |          |          |            |                | • • • • |                  | 577 -  |           |        |                |         |             |
| ¥     | U       | Y/DC     | 0701   | (6-01)/0 | • ¥+   | U+       | TAU      | TAULAN     | ۲              | U       | Y/0C             | 104    | 10-01170  | • Y+   | .J.+           | T AU    | T A UL A M  |
| 3.008 | 2.69    | 0+0012   | 0.111  | -23.94   | 3.5    | 2.98     | 0.00154  | 0.001042   | 3.(.)9         | 2.54    | 0.000            | 0.111  | -26.93    | 3.3    | 3.36           | 0.00124 | 0.061338    |
| 0,010 | 3.05    | 0+0015   | 0.126  | -23.54   | 4.5    | 3.38     | 0.00156  | 0.0019     | 0.011          | 3,05    | 6.0010           | 0.133  | -25.25    | 4.0    | 4.04           | 0.00127 | 0. 343968   |
| 0.013 | 4.03    | n,0020   | 0.165  | -27.49   | 5.9    | 4.43     | 0.0016Z  | 0.000985   | 0.013          | 3,58    | 0.0012           | 0,157  | -25.55    | 4.5    | 4.74           | 0.00130 | D. Gu0939   |
| 3.016 | 4.90    | G. F-024 | 0.202  | -21.49   | 7.2    | 5.43     | C.CO167  | 0.003930   | 0.016          | 4,36    | C.0015           | 0,191  | -24.52    | 5.9    | 5,77           | 0.00134 | 0.10.858    |
| 0.020 | 6.20    | 0.0030   | 0.255  | -20.05   | 9.0    | 6.87     | 0.00175  | 0.000813   | 0.019          | 5.01    | 0.001B           | C.219  | -73,66    | 7.0    | 6.63           | 0.00138 | 0.000803    |
| 0.025 | 7.24    | 0.0038   | 0.298  | ~18.89   | 11.3   | 8.03     | 0.00182  | 0.00.651   | 3.023          | 5.69    | 0.0022           | 1.249  | -22.76    | 8.5    | 7.53           | 0.00143 | 6.000714    |
| 0.030 | 8.17    | 0.0046   | 0.336  | -17.86   | 13.6   | 9.06     | 0.00188  | 0.003522   | 0,027          | 6.45    | 0.026            | (.282  | -21.75    | 17.1   | 8.54           | 0.00147 | 3.363623    |
| 3.036 | 9.00    | 0.055    | 0+370  | -16.95   | 16.3   | 9.97     | 0.00194  | 0.0034.0   | 0.031          | 7.22    | 0.0029           | r.316  | -20.72    | 11.6   | 9.57           | 0.00152 | 0.005526    |
| 0.043 | 9.70    | 0.0065   | 0.399  | -16.17   | 19.4   | 10.75    | 0.00199  | 6.Gub 304  | 3.036          | 7.86    | 0.0034           | 3.344  | -19.88    | 13.5   | 10+41          | 0.00157 | 0.003420    |
| 0.053 | 10,55   | 6.0081   | 0.434  | -15,24   | Z4. () | 11.68    | 0.0207   | 0.003221   | 3.041          | 8.35    | 0.0039           | 0.366  | -19.21    | 15.4   | 11.08          | 0.00160 | U. û Çu 345 |
| 0.065 | 11.14   | 0.0499   | 0.458  | -14.58   | 29.4   | 12.34    | C. CO213 | 0.000159   | 0.046          | 8.65    | 0.0044           | 3.378  | -18.84    | 17.2   | 11.45          | 0.00163 | 0.003279    |
| 0.093 | 11.65   | 0.0126   | 0.479  | -14.02   | 37.5   | 12.90    | 0.00219  | 0.000121   | 3.051          | 8.96    | C+CC49           | 7.392  | -18.42    | 19.1   | 11.87          | 6.00166 | 0.000230    |
| 0.093 | 12.24   | 0.0141   | 0.504  | -13.36   | 42.1   | 13.56    | 0.00225  | 0.00115    | 3.661          | 9.62    | n.rc58           | 6.421  | -17.54    | 27.9   | 12.75          | 0.00172 | 0.003180    |
| 0.118 | 12.98   | 2.0180   | 0,534  | -12, 53  | 53.4   | 14.3B    | 0.00234  | 0.000085   | 1.071          | 12.51   | r+L( 99          | n.438  | -17.13    | 26.7   | 13.26          | 0.00176 | 0.000150    |
| J.148 | 13.41   | 0.0225   | 0.552  | -12.06   | 66.9   | 14.86    | 0.00239  | 0.000671   | 0.086          | 10.58   | C. C 82          | 0.449  | -16.68    | 32.4   | 3.61           | 0.00180 | 0.005116    |
| 0.178 | 14.05   | 0.0271   | 0.578  | -11.35   | 80.5   | 15.57    | 0.00245  | 0.000062   | 0.111          | 11.03   | C.( 097          | č.483  | -15.67    | 38.0   | 14.62          | 0.00188 | 0.000092    |
| C.228 | 14.85   | 0.0347   | 0.611  | -10.47   | 103.1  | 16.45    | 0.00249  | 0.003358   | 5.121          | 11.29   | 0.0116           | 0.494  | -15.34    | 45.6   | 14.95          | 0.00192 | 0.061078    |
| 0.283 | 15,73   | 0.0431   | 0.647  | -9.49    | 128.0  | 17.42    | 0.00249  | 0.000056   | 0,151          | 11.83   | 0.7145           | 0.517  | -14+62    | 57.0   | 15,67          | 0.00201 | 0.063466    |
| 3.353 | 16.76   | 0.0537   | 0.69]  | -8+33    | 159.6  | 18.59    | 0.C0Z40  | 0.000054   | J.201          | 12.42   | 6,0193           | 0.543  | -13.93    | 75.9   | 16.46          | 0.00211 | 0.303351    |
| 0.413 | 17.78   | 0.0628   | 6.732  | -7.22    | 186.7  | 1 9. 70  | 0.00227  | 0.000153   | <b>• 251</b>   | 13.28   | C.0241           | 0.581  | -12.70    | 94.8   | 17.59          | 0.00221 | 6.00048     |
| J.473 | 18,65   | 0.0720   | 0.768  | -6.26    | 213.9  | 27.66    | 0.00207  | 0.000951   | 5.326          | 13.95   | 0.0313           | 0.610  | -11.81    | 123.1  | 18.48          | 0.00231 | 0.000345    |
| 0.533 | 19.54   | 0.0811   | 0,804  | -5.27    | 241.0  | 21.65    | 0.00186  | 0.005049   | 0+40)          | 14.73   | 0.0385           | 0.644  | -10.78    | 151.5  | 19.51          | 0.00237 | 0.00043     |
| 3.593 | 20.47   | 0.090Z   | 0.842  | -4,24    | 268.1  | 72.68    | 0.00167  | 0.000046   | 5.501          | 15.85   | 0.0481           | 0.693  | - 9. 3(   | 189. 3 | 20, 99         | 0.00239 | 6.000041    |
| 0.663 | 21.34   | 0.1009   | C. 578 | -3.28    | 299.8  | 23.64    | 0.00142  | U.Duju42   | 0.601          | 16.90   | 0.0577           | C.739  | -7. ar    | 227+1  | 22.19          | 0.00231 | 0.000040    |
| 3.738 | 22.32   | 0.1123   | 0.918  | -2.19    | 333.7  | 24.72    | 0.00125  | 0.003036   | 3.701          | 17.58   | 0.0673           | 0.782  | -6.60     | Z64.9  | 23.69          | 0.00214 | BEUL00.0    |
| 0.813 | 23.20   | 0,1237   | 0. 955 | -1.27    | 367.6  | 25.70    | D.00112  | 0.000.28   | 0.801          | 18.89   | 0.0769           | n. 826 | -5.27     | 302.8  | 25.02          | 0.00191 | 0.003335    |
| 3.688 | 23.76   | 0.1351   | 0.978  | -0.60    | 471.5  | 26.32    | 0.00092  | 0.000320   | 3.901          | 19.79   | G.C865           | 0.866  | -4."7     | 349.6  | 26.22          | 0.00161 | 0.00032     |
| 0.963 | 24.12   | 0.1465   | 0.993  | -0.19    | 435.4  | 26.73    | C.00069  | 0.003013   | 1.001          | 20.71   | 0.0961           | 0.906  | -7.86     | 378.4  | 27.43          | 0.00135 | 0.000027    |
| 1.063 | 24.31   | 0.1617   | 1.001  | 6*41     | 480.6  | 26.93    | 0.00034  | 6.00005    | 1.151          | 21.77   | 0.1135           | 0.952  | -1.45     | 435.1  | 78.84          | 0.00098 | 0.063019    |
| 1.163 | 24.32   | 0.1769   | 1.001  | 0.02     | 525.9  | 26.94    | 0.00000  | -0.6000.01 | 1.301          | 22.53   | U.1249           | n.985  | -0.45     | 491.8  | 29.84          | 0.00070 | 0.000012    |
| 1.288 | 24.30   | 0.1959   | 1.000  | 0.00     | 582.4  | 26.92    | 6.00000  | 0.003460   | 1.501<br>1.701 | 22.86   | 0.1441<br>0.1634 | 1.000  | -0.01     | 567.5  | 30.28<br>30.29 | 0.00830 | 0.000005    |

| R    | tun:  | 91771-2         | X=46.     | · 2•                  | r.               |                |                    |                 |                    | RUNI            | 91771-7         | ? X=58   | • [=                  | r.                         |                 |            |               |                               |
|------|-------|-----------------|-----------|-----------------------|------------------|----------------|--------------------|-----------------|--------------------|-----------------|-----------------|----------|-----------------------|----------------------------|-----------------|------------|---------------|-------------------------------|
|      | F/2   | 21.80<br>0.0010 | 2         | DI =<br>D2 =<br>DC =1 | 0.4441<br>6.2709 | 8ET#           | - 1.313<br>- 0.971 | F D 2<br>H<br>G | = 2959.<br>= 1.639 | U1<br>CF/2<br>F | 21.41<br>6.0004 | 16<br>19 | 01 =<br>02 =<br>0C =1 | 0.5373<br>0.3307<br>7.3472 | BETA<br>9<br>P+ | 1.364      | RD2<br>H<br>G | = 3548.<br>= 1.625<br>=12.412 |
| Ř    | •     | -0.276E         | -06       | 099 -                 | 1.7662           | Ýľ+            | = 0.031            |                 |                    | К =             | -7.2276         | -06      | 099 =                 | 2.1731                     | 46+ •           | 7.032      |               |                               |
|      | ۲     | U               | ¥/DC      | UVUT                  | (0-01170         | * Y+           | U+                 | TAU             | TAULAN             | Y               | U               | Y/DC     | <b>U/UT</b>           | ru-ut170+                  | ۲+              | <b>U</b> + | TAU           | TALLAM                        |
|      | . 613 | 2.70            | 0.0008    | 0-174                 | - 27. 44         | 3.8            | 3. 88              | 0.00117         | 0.000972           | 0.012           | 2.66            | 0.0107   | 0.124                 | -28.28                     | 4.0             | 4.01       | 0.00111       | G. 000889                     |
| ā    |       | 3.24            | 0.(000    | 0.148                 | -76-67           | 4.5            | 4.45               | 0 00121         | 0.000936           | 0.015           | 3.13            | 0.0009   | 0.146                 | -27.58                     | 5.0             | 4.71       | 0.00114       | 0.000857                      |
| Ā    | 014   | 1.00            | 0.0012    | 0.143                 | -25.59           | 5.6            | 5.73               | 0 00125         | 6.063877           | 0.018           | 3.86            | 0.0010   | 0.100                 | -26.46                     | 6.0             | 5.83       | 0.00118       | 0.060825                      |
| ň    | 19    | 4.49            | 0.0014    | 0.206                 | -24-87           | 6.6            | 6.45               | 0.00128         | 0.000795           | 5.021           | 4.41            | 0,0012   | 2.2^6                 | -25.64                     | 7.9             | 6.64       | 0.00121       | U. CUL 752                    |
| ō    | 072   | 5.14            | 0.0016    | 0.236                 | -23.94           | 7.7            | 7.38               | 0.00132         | 0.000687           | 0.025           | 5.03            | 0.0014   | ).235                 | -24.70                     | 8.3             | 7,59       | 0.00125       | 0.000673                      |
| 0    | 076   | 5.71            | 0.0019    | 0.767                 | -23.12           | 9.1            | 8-20               | 0.00135         | 0.00(585           | 0.029           | 5.75            | 0.0017   | 0.269                 | -23.62                     | 9.6             | 8.67       | 0.00129       | 0.000562                      |
| ň    | .010  | Å. 79           | 0.0022    | 0. 789                | -77.78           | 10.5           | 9.04               | 0.00139         | 11.003527          | 0.034           | 6.26            | 0.0020   | 0.297                 | -22,95                     | 11.3            | 9.44       | 0.00133       | U. OLÚ466                     |
| ň    | . 034 | 6-66            | 0.3024    | 0.305                 | -21.78           | 11.9           | 9.54               | 0.00142         | 0.018(439          | 3.039           | 6.84            | 0.0022   | 0.319                 | -21.98                     | 13.0            | 10.31      | 0.00137       | 0.010388                      |
| á    | . 019 | 7.18            | 0.0028    | 0.379                 | -21.00           | 11.6           | 10.12              | 0.00145         | 0.003372           | 0.040           | 7.50            | 0+0028   | 0.350                 | -20.97                     | 16.3            | 11.31      | 0.00142       | 0.005274                      |
| 5    | .044  | 7.76            | 0.0032    | r.356                 | -21.18           | 15.3           | 11.14              | 0.00149         | 0.006310           | 0.059           | 8.08            | 0.0634   | C.377                 | -20.11                     | 19.6            | 12.18      | 0.00146       | 0.001534                      |
|      | .054  | A.23            | 0.0039    | 6-377                 | -19.50           | 18.8           | 11. B2             | 0.00154         | 0.00.725           | 0.074           | 8.64            | 0.0043   | 0.404                 | -19.26                     | 24.6            | 13.03      | 0.00152       | 0.000147                      |
| ă    | 064   | B. 72           | 0.0046    | 0.400                 | -18.79           | 22.3           | 12.53              | 0.00158         | 0.000123           | 0.089           | 9,17            | 0.0051   | C.428                 | -18.45                     | 29.6            | 13.83      | 0.00157       | 0.003113                      |
| ň    | 070   | 9.11            | 0.0057    | 0.417                 | 18.25            | 27. 6          | 13.07              | 0.00163         | 0.000127           | 3.139           | 9.52            | 0.0/63   | 0.445                 | -17.93                     | 36.2            | 14.35      | 0.00162       | 0.000087                      |
| Ň    | 104   | 9.70            | 0.0075    | 0.440                 | -17.26           | 16.3           | 14.04              | 0.00171         | 0.000094           | 0.134           | 9.94            | 0.0077   | 0.464                 | -17.30                     | 44.5            | 14.98      | 0.00168       | 0.0000068                     |
| ð    | 129   | 10.37           | 0.0093    | 0.476                 | -16.42           | 45.0           | 14.90              | 0.00178         | 0.06.073           | 9.159           | 10.26           | 0.0092   | 3.479                 | -16.81                     | 52.B            | 15.48      | 0.00173       | 0.063656                      |
|      | 124   | 10.74           |           |                       | -15 55           | 63.7           | 16 43              | 0 00164         | 0.000043           | 0.239           | 15.69           | 0.0120   | 2.509                 | -15.87                     | 69.4            | 16.42      | 0.00184       | 0.000046                      |
|      | 334   | 11 21           | 0.0111    | 0.810                 | -15 07           | 11 1           | 16 26              | 0.00104         | 0.0000000          | 3.309           | 11.69           | 0.0178   | 0.546                 | -14.67                     | 107.7           | 17.62      | 0.00201       | Ŭ₀000037                      |
|      | 164   | 11 74           | 0.0147    | 0.517                 | -14 44           |                | 14 84              | 0.00704         | 0.000044           | 0.419           | 12.41           | 0.0236   | 0.579                 | -13,58                     | 135.9           | 18.70      | 0.00215       | 9.3637333                     |
|      |       | 12.11           | 0.0163    | 0.510                 | -11 44           | 104.0          | 17.44              | 0.00212         | 0.001040           | 1.509           | 13.18           | 6.0293   | 1.615                 | -12.42                     | 169.1           | 19.87      | 0.00226       | Ú. COU - 32                   |
| ó    | 404   | 13.17           | 0.0290    | 0.604                 | -12.40           | 141.9          | 15.91              | 0.00225         | 0.006037           | 0.709           | 14.42           | 6,0409   | A.673                 | -10.55                     | 235.5           | 21.74      | 0,00233       | 0.0.0029                      |
| •    | 834   | 14 02           | 0 0347    |                       | -11 10           | 175 8          | 20.13              | 0.00334         |                    | 5.909           | 15.60           | 0.0524   | 0.729                 | -B.76                      | 332.0           | 23.53      | 0.00223       | 0.003027                      |
| - 5  | 464   | 16 14           | 0.0470    | A 466                 | -11417           | 774 1          | 21. 75             | 0 00234         | 6. 000030          | 1.209           | 17.45           | 0.0697   | 0.815                 | -5,98                      | 401.7           | 26.30      | 0.00186       | 0.000022                      |
| - 5  | 804   | 16 11           | 0.0578    | 0.748                 | -7.00            | 280.6          | 23.42              | 0.00227         | 0.000037           | 1.539           | 19.05           | 0.0870   | 5.890                 | -3.57                      | 501.3           | 28.72      | 0.00121       | 0.000016                      |
|      | 004   | 17 70           | 0 0 7 7 7 | 0 014                 | -5 77            | 250 1          | 26 88              | 0 00195         | 0.0000000          | 1.809           | 20.35           | U.1043   | 0.950                 | -1.61                      | 601.C           | 30,68      | 0.00052       | 0.000011                      |
| - î  | 234   | 19.17           | 3.3866    | 0.879                 | -3.78            | 419.9          | 27.54              | 0.00150         | 0.000023           | 2.2.9           | 21.23           | 0.1273   | 0.594                 | - 1. 21                    | 733.9           | 32.09      | U.0000Z       | U. 00juj6                     |
|      | 101   |                 | A 1688    |                       | - 7 64           |                | 30.30              | 0.00105         | 0.0000.7           | 2.609           | 21.45           | 9.1504   | 1.002                 | 0.45                       | 866.8           | 32. 34     | 0.00000       | u. 00JJJJ                     |
| - 11 | 474   | 23439           | 0.1009    | 0.937                 | -2.04            | 40440<br>EED / | 27.20              | 0.00105         | 0.000017           | 3.009           | 21.41           | A.1735   | 1.000                 | 0,00                       | 999.7           | 32.29      | 0.00000       | 0.063330                      |
| - 11 |       | 21.24           | 0.1193    | 0.004                 | -0.01            | 22704          | 30.31              | 0.00066         | 0.000011           |                 |                 |          |                       | -                          |                 |            |               |                               |
| 1    | 1004  | 21.0/           | 0.1247    | 0.994                 | -0.20            | 024.1          | 21.12              | 0.00036         | 0.000007           |                 |                 |          |                       |                            |                 |            |               |                               |
| - 2  | .194  | 21.60           | 0.1513    | 1.000                 | -0.01            | 133.7          | 21.1               | 0.00007         | 0.003532           |                 |                 |          |                       |                            |                 |            |               |                               |
| 2    |       | 51.80           | 0.1728    | 1.066                 | 1.00             | 838.4          | 51.52              | 0.00000         | C*000000           |                 |                 |          |                       |                            |                 |            |               |                               |

| R UN : | 91771-Z | X=70   | . 2- ( | n.        |        |         |         |            | RUN:   | 91771-2 | 7 X×87. | . z.   | <b>^.</b> |         |         |         |             |
|--------|---------|--------|--------|-----------|--------|---------|---------|------------|--------|---------|---------|--------|-----------|---------|---------|---------|-------------|
| ut =   | 21.13   |        | D1 = 1 | 0.6262    | BETA   | = 1.411 | R DZ    | - 4095.    | 9T =   | 20.36   |         | 01 =   | . 7146    | BETA    | - 1.403 | RDZ     | . 4544.     |
| 6817=  | 3.3019  | 1      | 02 = / | 3.3969    | 8      | + 1-114 | . н     | . 1.619    | £F/2=  | 0.5646  | 8       | DZ =   | 3.4456    | в       | = 1.139 | н       | * 1.604     |
| F F    | 0.0010  | î      | 00 +21 | 0.7965    | P+     | = 0.007 | G       | =12.691    | F .    | 0.0010  | 10      | nc + 2 | 4.1201    | P+      | . 0.006 | G       | =12.759     |
|        | -0.1935 | -06    | Nº9 .  | 7.5767    | ¥0+    | = 0.034 |         |            | x =    | -0.1696 | F-D6    | 099 .  | 2.9078    | ¥0+     | * 0.034 | -       |             |
|        | ••••    |        |        |           |        |         |         |            |        |         |         |        |           |         |         |         |             |
| Y      | U       | Y/DC   | U7UI   | (0-01)/04 | ¥+     | 40      | TAU     | T AUL AM   | Y      | υ       | Y/DC    | 1/01   | (0-01)/0  | • ¥+    | U+      | T≜u     | TAULAM      |
| 0.014  | 3.04    | 0.0007 | 0.144  | -28.42    | 4.5    | 4.73    | 0.00108 | 0.003847   | 0.016  | 2.99    | 0.0997  | 6.147  | -28.85    | 4.8     | 4.95    | 0.00105 | 6.000766    |
| 3.017  | 3.47    | 0.0008 | 0.164  | -27.74    | 5.4    | 5.45    | 0.00111 | 0.003832   | 3.019  | 3.43    | 0.0008  | n.169  | -28.56    | 5.7     | 5.69    | 0,00105 | 0.00.739    |
| 0.021  | 4.31    | 0.0010 | 0.204  | -26.43    | 6.7    | 6.77    | 0.00116 | U. UOU 744 | 3.022  | 3,81    | 6,013,0 | 0.187  | - 27. 42  | 6.6     | 6.32    | 0.00110 | 0.000591    |
| 3.025  | 4.79    | 0.0012 | 0.227  | -25.67    | 8.0    | 7.53    | 0.00119 | 0.000024   | 3.(26  | 4.47    | 0.0011  | 0.219  | -76.34    | 7.9     | 7.41    | 0.00114 | 6161618     |
| 0.079  | 5.44    | 0.0014 | 0.257  | -24.66    | 9.2    | 8.55    | 0.00123 | 0.003545   | 0.031  | 5.26    | 0.0013  | 0.258  | -25.12    | 9.4     | A.72    | 0.00119 | 0.000536    |
| 5.036  | 6.37    | 0.0017 | 0.302  | -23,19    | 11.5   | 10.02   | 0.00128 | 0.000413   | 9.646  | 6.37    | 6.0019  | 0.313  | -23.18    | 13.9    | 10.56   | 0.00127 | 6.003320    |
| 0.046  | 7.02    | 0.0022 | 0.332  | -72.19    | 14.7   | 11.03   | 0.00133 | 0.000295   | A+056  | 7+16    | 0.0023  | 6+351  | -21.68    | 16.9    | 11.86   | 0.00132 | 0,063236    |
| 3.056  | 7.53    | 0.0027 | (.355  | -21.42    | 17.8   | 11.79   | 0.06137 | 0.000219   | 1.066  | 7.36    | C.0027  | 3, 362 | -21.55    | 19.9    | 12.20   | 0.00134 | 0.060188    |
| 0.071  | 8.16    | 0.0034 | 0.386  | -20.38    | 22.6   | 12.83   | C.0C14Z | 0.000150   | 3.086  | 8.16    | 640.036 | 16.401 | -27.22    | 26. P   | 13.53   | 0.00141 | Ú. OUJ132   |
| 3,691  | 8.73    | 0.0144 | 0.413  | -19.49    | 29.0   | 13.72   | 0.05148 | 0.000110   | J. 116 | 8,52    | 0.7044  | 0.419  | -19.42    | 32.0    | 14,13   | 0.00145 | 0.010399    |
| 0.111  | 9.23    | 0.0053 | 0.437  | -18,71    | 35.4   | 14.50   | 0.06153 | 0.00.087   | 3.131  | 9.62    | 0.0054  | 7.443  | -18.80    | 39.6    | 14.94   | 0.00150 | J. 0 GUL BU |
| 3.136  | 9.45    | 0.0065 | 0.447  | -18,36    | 43.3   | 14.84   | 0.00158 | 0.000068   | 2+156  | 9,36    | 0.0065  | 0.460  | -18.22    | 47.1    | 15.52   | 0.00155 | 0.063.63    |
| 3.161  | 9.93    | 0.0077 | 0.470  | -17.60    | 51.3   | 15.61   | 0.00164 | 0.003057   |        | 9.97    | r.c085  | A. 486 | -17.33    | 62.3    | 16.42   | 0.00163 | 6.000649    |
| 0.211  | 17.46   | 0.0101 | 0.495  | -16.78    | 67.3   | 10.43   | 0.06173 | 0.000045   | 1.306  | 10.71   | 6.0127  | 7.526  | -16.00    | 92.5    | 17.75   | 0.00178 | 2.060035    |
| 0.311  | 11.23   | 0.0150 | 0. 531 | -15.56    | 99.1   | 17.65   | 0.00189 | 0.005335   | 3.516  | 11.86   | e.621 · | r.582  | -14.79    | 152.9   | 19.66   | 0.00200 | 6.000526    |
| 0.411  | 12.04   | 0.0198 | 0.570  | -14.29    | 131.0  | 18.92   | 0.06204 | u.060029   | 0.766  | 12.71   | 0.0293  | 0.624  | -12.68    | 213.4   | 21.07   | 0.00214 | J. ÚJ3323   |
| 0.511  | 12.46   | 0.0246 | 0.589  | -13.63    | 162.9  | 19.58   | 0.00214 | 0.003328   | D.906  | 13.58   | 0.0376  | 0.667  | -11.74    | 273.8   | 22,50   | 0.00225 | 0.060022    |
| 0.711  | 13.55   | 0.0342 | 0.641  | -11.91    | 226.6  | 21.30   | 0.00230 | C.600026   | 1.206  | 14.84   | 5.0500  | r. 729 | -9.15     | 364.5   | 24.59   | 0.00225 | 0.003320    |
| 0.911  | 14.56   | 0.0438 | 0.689  | -10.32    | 290.4  | 22.89   | 0.00236 | 0.046224   | 1,506  | 16.01   | 0.0624  | C.786  | -7.21     | 455.1   | 26.54   | 0.00705 | 0.006019    |
| 1,711  | 16.32   | 0.0582 | 0.771  | -7.50     | 386.0  | 25.61   | C.CC228 | u.0u3522   | 1.806  | 17.17   | 1.0749  | 6.844  | -5.28     | 545.9   | 28,47   | 0.00174 | 0.000016    |
| 1. 511 | 17.61   | 0.0727 | 0.834  | -5.53     | 481.6  | 27.68   | 0.00189 | 0.0.0018   | 2.206  | 18.61   | 0.0915  | P. 914 | -2,90     | 666.7   | 30.84   | 0.00123 | 0.000012    |
| 1.611  | 18.95   | 0.0871 | u.897  | -3.43     | 577.2  | 29.78   | 0.00138 | 0.003614   | 2.606  | 19.76   | 0.1080  | 0.970  | -1.00     | 787.5   | 32.75   | 0.00064 | u.005308    |
| 2.211  | 20.29   | 0.1063 | 3.960  | -1.32     | 704.7  | 31.89   | 0.00066 | L.GGCJL9   | 3.006  | 20.29   | 0.1246  | r.997  | -^.11     | 96 8. 4 | 33,64   | 0.00022 | 0.063305    |
| 2.611  | 21.09   | 0.1255 | 0.998  | -0.07     | 832.2  | 33.14   | 0.00023 | 6.000005   | 3.406  | 20.40   | 0.1412  | 1.02   | 0.07 1    | 154.3   | 33.02   | 0.00000 | 0.003002    |
| 3.011  | 21.19   | Q.1448 | 1.003  | C.U9      | 959.7  | 33, 30  | 0.00000 | 0.0000.3   | 3.80.6 | 27.36   | 0.1578  | 100    | 0.rc 1    | 150.2   | 33.75   | 0.00000 | 0.0.0300    |
| 3.411  | 21.13   | 0.1640 | 1.000  | 0.00 1    | C87. 2 | 33.21   | 0.00000 | 0.000000   |        |         |         |        |           |         |         |         |             |

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| ₽ UN : | 91771-2 | X = 90. | . 7- 1  | D.        |                |         |     |           | PUN: 1 | 11771-3 | x= 2.  | . Z= (  |            |       |       |            |
|--------|---------|---------|---------|-----------|----------------|---------|-----|-----------|--------|---------|--------|---------|------------|-------|-------|------------|
|        | 20 14   |         | 01 8 1  | .7783     | 8ET A          | 1.50Z   | ROZ | - 4911.   |        |         |        | 01 • /  | . 0623     | RETA  | 0.187 | RDZ = 587. |
| 6677-  | 0.0008  |         | D2 #    | 0.4864    | 8              | = 1.154 | н   | - 1.600   |        | 4.20    | ^      | D2 = 0  | 1.6384     | 8     | 0.671 | H = 1.621  |
| C      | 0.0000  | ä       | 00 +2   | 6.5704    | P+             | = 0.007 | G   | 12.803    | Cr/2•  | 0.0023  | n o    |         | . 2998     | P+ :  | 0.004 | G = 7.997  |
| 5 2    | -0 1445 | -04     | nee .   | 1.1636    | ¥0+            | . 0.034 |     |           |        | -0.0020 | -04    | D00 - 1 | 1.3194     | vo+   | 0.047 |            |
| × -    | -0.1041 | -00     | 0// -   |           | ••             |         |     |           |        |         | -00    | 077 - 1 |            |       |       |            |
| Y      | υ       | ¥/DC    | 0/01    | (U-UI)/U* | ۲.             | u+      |     | TAULAM    | ¥      | υ       | ¥7DC   | U/UI    | 10-111370* | ۲+    | U+    | TRULAM     |
| 01.6   | 2.87    | 0.0006  | 0.142   | -29.28    | 4.7            | 4.86    |     | 0.006791  | 0.004  | 4.19    | 0.0033 | C.143   | -17.89     | 3.1   | 2.99  | 0.001821   |
| 0.019  | 3.34    | 0.0007  | 0.165   | -28,49    | 5.6            | 5.65    |     | 0.003748  | 0.005  | 4.58    | 0.0041 | 0.150   | -17.61     | 3.9   | 3.26  | 0.001756   |
| 5-623  | 3.92    | 0.0009  | 0.194   | -27,50    | 6.7            | 6.64    |     | 0.000691  | 7.006  | 5.28    | 0.0048 | 7.181   | -17.10     | 4.5   | 3.77  | 0.001692   |
| 0.027  | 4.58    | 0.0010  | 0+727   | -26.38    | 7.9            | 7.75    |     | 0-003614  | 0.008  | 6.74    | 0.0064 | 0+231   | -15.36     | 6.1   | 4-91  | 0.001581   |
| 1.032  | 5.13    | 0.0012  | 0,254   | -25.46    | 9.4            | 8.68    |     | 0.000491  | 5.010  | R.20    | 0.0075 | 0.290   | -15.02     | 7.5   | 5.85  | 0.001481   |
| .038   | 5.69    | 0,0014  | u.282   | -24.50    | 11.2           | 9.64    |     | 0.000401  | 2.017  | 9.50    | 0.0095 | 0.325   | -14.09     | 9.0   | 6.78  | 0,001346   |
| 3.045  | 6.31    | 0.0017  | n.313   | -73.45    | 13.3           | 10.69   |     | 0.003317  | 0.014  | 10.91   | 0.0110 | 0.370   | -13.16     | 13.5  | 7.72  | 0.001209   |
| 1-056  | 6.60    | 0.0021  | 0.327   | -22.97    | 16.5           | 11.17   |     | 0.00.238  | 1.016  | 11.75   | C.0125 | 0.492   | -12.49     | 11.9  | 8.38  | 0.001059   |
| . 071  | 7.43    | 0.0027  | 0.369   | -21.55    | 20.9           | 12.58   |     | 0.000173  | 0.018  | 17.72   | 0.0141 | 0.435   | -11.80     | 13.4  | 9.08  | 0,000918   |
| .096   | 8.25    | 0.0036  | 0.409   | -20.17    | 7 P. 3         | 13.97   |     | 0.303118  | 0.020  | 13.53   | 0,0156 | 0.462   | -11.22     | 14.9  | 9.65  | 0.000796   |
| 1.146  | 8.93    | 0.0055  | 0.443   | -19.02    | 43.1           | 15.12   |     | 0.003371  | 0.022  | 14.15   | 0.0172 | 0.494   | -10.78     | 16.3  | 10.10 | 0.000710   |
| 7.221  | 9.87    | 0.0083  | 0,490   | -17.42    | 65.3           | 16.72   |     | 0.000042  | 0.025  | 14.96   | 0.0195 | 0.511   | -10.20     | 15.5  | 10.67 | 0.003543   |
| . 296  | 19.40   | 0.0111  | 0,516   | -16,53    | 87.5           | 17.61   |     | 0.063433  | 0.028  | 15.74   | 0.0218 | 0.538   | -9.64      | 20.7  | 11.23 | 0.000496   |
| 1.371  | 10.74   | 0.0140  | (** 533 | -15.94    | 109.7          | 18.20   |     | 0.003028  | 0.032  | 16.60   | 0.6249 | 2,507   | -9.03      | 23.6  | 11.84 | 0.000408   |
| 1. 446 | 11.10   | 0.0168  | 0.551   | -15.34    | 131.9          | 18.80   |     | 0.303325  | 0.035  | 17.20   | 0.0279 | C.538   | -8.61      | 26.6  | 12.27 | 0.000342   |
| 3.540  | 11.66   | 0.0205  | 0.579   | -14.38    | 161.4          | 19.75   |     | 0.00023   | 0.040  | 17.79   | 0.0310 | 0.608   | -8.15      | 29.5  | 12.69 | 0.000294   |
| 0.671  | 12.14   | 0.0252  | 0.602   | -13.5B    | 198.4          | 20.56   |     | 6.303322  | 0.045  | 18.32   | 0.0349 | 0.626   | -7.80      | 33.2  | 13.07 | 2.000251   |
| 1.821  | 12.82   | 0.0309  | C.636   | -12,43    | 242.8          | 21.71   |     | 6.DUUD21  | 0.050  | 18.87   | 0.0387 | 0.645   | -7.41      | 36.8  | 13.46 | 0.000227   |
| 1.021  | 13.59   | 0.0384  | 0.674   | -11.12    | 301.9          | 23.01   |     | 0.000020  | 0.057  | 19.54   | 0.0441 | 0.668   | -6.93      | 41.9  | 13.94 | 0.000199   |
| 1.721  | 14.34   | 0.0459  | A. 711  | - 9, 86   | 361.1          | 24.28   |     | 0+001019  | 7.065  | 20.19   | 0.0502 | n.690   | -6.47      | 47.8  | 14.40 | 0.000180   |
| 1,521  | 15.42   | 0.0572  | 3.765   | -8.72     | 449 <b>.</b> B | 26.11   |     | 0.00018   | 9.075  | 20.98   | r.0575 | 0.717   | -5.91      | 55.1  | 14.97 | 0.000159   |
| 1.821  | 16.59   | 0.0685  | 0.823   | -6.74     | 538+6          | 28.09   |     | 0.000016  | 0.0PA  | 21.76   | 0.0679 | 0.744   | -5.35      | 64.6  | 15.53 | 0.000140   |
| 2.221  | 17.79   | 0.0836  | 0.882   | -4. 72    | 656.9          | 30.12   |     | 0.0000013 | 9.103  | 22.72   | 0,0795 | 0.777   | -4.06      | 75.6  | 16.21 | 0.000124   |
| 2.621  | 19.08   | 0.0986  | 0.947   | -1.82     | 775.2          | 32.31   |     | 0.000009  | 3.114  | 23.45   | 0.0910 | 0.802   | -4-14      | 86.6  | 16.73 | 0.000112   |
| 3.02)  | 19.86   | 0.1137  | 0.985   | -0.50     | 893.5          | 33.64   |     | 0.303356  | 0.133  | 24.21   | 0.1026 | 0.827   | - 3+ 60    | 97.6  | 17.27 | 0.000 LOS  |
| 3.421  | 20.13   | 0.1287  | 0.998   | -0.05 1   | 311.8          | 34.08   |     | 0.00003   | 9.153  | 25.04   | 0.1179 | 0,856   | -3.61      | 112.2 | 17.86 | 0.00089    |
| 3.821  | ZD,16   | 0.1438  | 1.000   | n, nn 1   | 130.1          | 34, 14  |     | 0.000001  | 0.178  | 25.04   | 2.1372 | 0.990   | -2.30      | 130.5 | 19.58 | 9.000076   |
| 3.921  | 20,16   | C.1476  | 1.000   | 0.001     | 159.7          | 34.14   |     | 0.000000  | 0.208  | 26.99   | 0,1603 | 0.922   | -1.62      | 152.5 | 19.25 | 0.000061   |
|        |         |         |         |           |                |         |     |           | 2.738  | 27:75   | 0.1833 | 0.949   | -1.07      | 174.4 | 19.80 | 0.000046   |
|        |         |         |         |           |                |         |     |           | 0.264  | 28.37   | 0.2004 | C. 970  | -0.63      | 196.4 | 20.24 | 0.00034    |
|        |         |         |         |           |                |         |     |           | 0,304  | 28.90   | 0.2372 | C. 988  | -0.26      | 225.7 | 20.62 | n.000021   |
|        |         |         |         |           |                |         |     |           | 0.358  | 29.21   | 0.2757 | 0,998   | -0.03      | 262.3 | 20.84 | 0.000010   |
|        |         |         |         |           |                |         |     |           | 0.408  | 29.27   | 0.3141 | 1+000   | 0.01       | 298.9 | 20.88 | 0.000003   |
|        |         |         |         |           |                |         |     |           | 0.469  | 29.27   | 0,3603 | 1.000   | 0.01       | 342.0 | <0.8B | -0.00003   |
|        |         |         |         |           |                |         |     |           | 0,529  | 29.26   | 0.4064 | 1.000   | 0.00       | 386.7 | 20.37 | 0.00000    |

| ₩UN: 1 | 11771-3 | X=10   | . ζ.  | 0.       |       |         |         |           | RUNI  | 111771-3 | X=22   | . Z.* .       | o.        |       |            |          |          |
|--------|---------|--------|-------|----------|-------|---------|---------|-----------|-------|----------|--------|---------------|-----------|-------|------------|----------|----------|
|        | 26.50   |        | a1 .  | 0.1486   | BE TA | . 1.165 | 202     | a 1719.   | י וני | 24.11    |        | 01 -          | 0.2901    | BETA  | 1.542      | 8.02     | * 2042.  |
| 68.17- | 0,0015  | 0      | 07 -  | 0 0878   |       | - 1.207 |         | - 1 407   | CE/24 | 0.0010   | 8      | 07 * 1        | 0.1639    | 8     | . 1.491    | н.       | . 1.710  |
| E .    | 0.0018  | 1      | 02    | 3 8361   |       | a 0.015 |         | *10 543   | F I   | 0.0016   | 1      | 00 +          | 8.5238    | P.    | . 0.013    | G        | *12.63F  |
|        | -0 8475 | -06    | 00 -  | A 5788   | 20.   | . 0.047 |         |           | , i i | -0.4726  | -06    | 099 *         | 1.0319    | ¥0+   | - U. 049   | -        |          |
| • •    | -0.0476 | -00    |       | 0.9100   | 101   | - 0.047 |         |           |       |          |        |               |           | • • • |            |          |          |
| ۲      | U       | Y/0C   | UVUI  | 10-01170 | ¥ ¥ + | U+      | TAU     | TAULAM    | Y     | U        | ¥700   | UPJI          | {0-01170* | ۲+    | <b>U</b> + | TAU      | TAULAH   |
| 0.005  | 3.01    | 0.0013 | 0.113 | -22.90   | 2.7   | 2.92    | 0.00176 | 0.001238  | 0.010 | 3.02     | 0.0012 | 0.125         | -20.62    | 4.1   | 3.81       | 0.00134  | 0.000899 |
| 0.007  | 3.63    | 0,0018 | 3,137 | -22,29   | 3.8   | 3.53    | 0.00183 | 0,001216  | 0.012 | 3.47     | 0.0014 | 3.144         | -26.05    | 5.0   | 4.39       | 0.00138  | 0.000873 |
| 90.09  | 4.34    | 0.0023 | 0.163 | -21.61   | 4.8   | 4.21    | 0.00190 | 0.001134  | 0,014 | 3.93     | 0.0016 | 3.163         | -25.47    | 5.8   | 4.95       | 0.00142  | 0.000948 |
| 0.011  | 5.ZO    | 0.0029 | 0.194 | -20.77   | 5.9   | 5.05    | 0.00198 | 9.001068  | 0.016 | 4.50     | 0.0019 | 0.137         | -24.75    | 6.6   | 5.68       | 0.00147  | 0.000799 |
| 1.013  | 5.97    | C.0034 | 0.224 | -20.03   | 7.0   | 5.79    | 0.00205 | 9.001021  | 0.019 | 5.23     | 0.0022 | 0.217         | -23.93    | 7.9   | 6.60       | 0.00154  | 0.000762 |
| 9.016  | 7.16    | 0.0042 | 0.269 | -18.87   | 8.6   | 6.75    | 0.00216 | 0.000938  | 0.072 | 5.96     | 0.0026 | 0.247         | -22.91    | 9.1   | 7.52       | 0.00100  | 0.000633 |
| 9.019  | 8.13    | 3.0050 | 7.306 | -17,92   | 10.2  | 7,90    | 0.00225 | 0.000753  | 7.026 | 6.65     | C.CO31 | 1.276         | -22.04    | 10.8  | 8.39       | 0.00167  | 0.000571 |
| 3.022  | 9.00    | 0.0057 | 0.338 | -17.08   | 11.8  | 8.74    | 0.00233 | 0.000628  | 0.032 | 7.91     | 0.0038 | 0.324         | -20.57    | 13.2  | 9.86       | 0.00177  | 0,007438 |
| 0.026  | 9.78    | 0.0068 | 0.368 | -16.17   | 14.0  | 9.50    | 0.00241 | 0.000494  | 0.041 | H.72     | 0.0048 | 0.362         | -19.43    | 17.0  | 11.00      | 0.00187  | 0.000299 |
| 0.030  | 10.40   | 0.0078 | 0,391 | -15.72   | 16.1  | 10.10   | 0.00247 | 0.000403  | 0.051 | 9.47     | 0.0066 | 3.393         | -18,48    | 21.1  | 11.95      | 0.00196  | 0.000715 |
| 0.035  | 11.05   | 0.0091 | 3.416 | -15.09   | 18.8  | 10.73   | 0.00253 | 0.000316  | 0.063 | 10.04    | 0.0074 | 0.416         | -17.76    | 26.1  | 12.67      | 0.00204  | 0.000157 |
| 0.241  | 11.69   | 0.0107 | 0.439 | -14.48   | 22.0  | 11.34   | 0.00260 | 0.000259  | 0.078 | 10.61    | 0.0092 | 0.440         | -17.03    | 32.3  | 13.39      | 0.00212  | 151000.0 |
| 9.04R  | 12.34   | 0.0125 | 2.464 | -13.83   | 25.8  | 11.99   | 0.00266 | n,000214  | 0.095 | 11,26    | 0.0115 | 0,467         | -16.22    | 40+6  | 14.21      | 0.00222  | 0.00096  |
| 0.056  | 12.77   | 0.0146 | 0.480 | -13,42   | 30.1  | 12.40   | 0.00269 | 0.000178  | 0.125 | 12+06    | 0.0150 | 0.500         | -15.21    | 53.0  | 15.22      | 0.00235  | 0.000077 |
| 7.071  | 13.70   | 0.0185 | 0.515 | -12.52   | 36.2  | 13.30   | 0.00276 | 0.000140  | 0.163 | 12.70    | 0.0191 | 0.527         | -14.40    | 67.5  | 16.03      | 0.00245  | 0.000063 |
| 0.091  | 14.55   | 0.0237 | 9.547 | -11.69   | 48.9  | 14.13   | 0.00278 | 0.000115  | 0.19  | 13.37    | 0.0272 | 0.554         | -13.56    | 81.9  | 16.87      | 0.00253  | 0.000058 |
| 3.116  | 15.47   | 0.0302 | 0.582 | -10.79   | 62.4  | 15.03   | 0.00276 | 0.000101  | 7.238 | 14.01    | 0.0279 | 0.551         | -12.75    | 98.5  | 17.65      | 0.00258  | 0.000054 |
| 3-146  | 16.55   | 0.0391 | 0.627 | -9.75    | 78.5  | 16.07   | 0.00269 | 0.0000040 | 0.283 | 14.60    | 0.0372 | 7.605         | -12.01    | 117.1 | 18.42      | 0.00258  | 0.000053 |
| 0.181  | 17.50   | 0.0472 | 0.658 | -8.82    | 97.3  | 17.00   | 0.00251 | 0.000084  | 0.333 | 15,44    | 0.0391 | 0.640         | -10.95    | 137.8 | 19.48      | 0.00257  | 0.007052 |
| 0.216  | 18.61   | 0.0563 | 0,700 | -7.75    | 116.2 | 18.07   | 0.00233 | 0,000080  | 3.383 | 16.19    | 0.0449 | 0.671         | -10.00    | 158.5 | 20.43      | 0+ 60249 | 0.00051  |
| 0.251  | 19.61   | 0.0654 | 0.738 | -6.77    | 135.0 | 19.05   | 0.00211 | 0.000377  | 0.433 | 16.97    | 0.0508 | 0.704         | -9.01     | 179.2 | 21.42      | 0.00239  | 0.000050 |
| 9.286  | 20.57   | 0.0746 | 3.774 | -5,84    | 153.8 | 19.98   | 0.00188 | c.000074  | 0.481 | 17.74    | 0,0567 | <b>J. 736</b> | -8.05     | 199.9 | 22.38      | 0.00224  | 0.000048 |
| 0.321  | 21.55   | 0.0837 | 0.811 | -4.89    | 172.6 | 20,93   | 0.00169 | 0.000071  | 0.533 | 18.40    | 0.0625 | 0.763         | -7.21     | 220.6 | 23.21      | 0.00204  | 0.00048  |
| 0.356  | 22.41   | 0.0928 | 0,943 | +4,06    | 191.4 | 21.76   | 0.00149 | 0.000067  | 0.583 | 19.15    | 0.0684 | 0.794         | -6.26     | 241.3 | 24.17      | 0.00187  | 0.000047 |
| 9.391  | 23.30   | 0.1019 | C.876 | -3.19    | 210.3 | 22.63   | 0.00137 | 0.000041  | 0.633 | 19.83    | 0.0743 | 0.822         | - 5. 40   | 262.0 | 25.03      | 0.00168  | 0.000046 |
| 0.431  | 24.20   | 0.1124 | 0.910 | -2.31    | 231.8 | 23.51   | 0.00126 | 0.000053  | 0.681 | 20.54    | 0.0801 | 0.852         | -4,51     | 282.7 | 25.92      | 0.00154  | 0.000044 |
| 0.471  | 24.98   | 0.1228 | 0.940 | -1.50    | 253.3 | 24.25   | 0.00117 | 0.000044  | 0.733 | 21.22    | 0,0860 | 0,880         | -3.65     | 303.3 | 26.78      | 0.00142  | 0.000041 |
| 0.521  | 75.76   | C.1358 | 0,969 | -0.80    | 280.2 | 25.02   | 0.00105 | 0,000031  | 0.783 | 21.82    | 0.0414 | 0.905         | -2.89     | 324.0 | 27.54      | 0.00129  | 0.000037 |
| 0.571  | 26.28   | 0.1438 | 0.989 | -0.29    | 307.1 | 25.53   | 0.00086 | 0.000021  | 0.833 | 22.38    | 0.0977 | 0.928         | -2.18     | 344.7 | 28.25      | 0.00117  | 0.000033 |
| 1.621  | 26.57   | 0.1619 | 0.997 | -0.07    | 333.9 | 25.75   | 0.00035 | 0.000011  | 0.70  | 23.18    | 0.1065 | 0.961         | -1.18     | 375.8 | 29.25      | 0.00105  | 0.00025  |
| 0.696  | 26.59   | 0.1514 | 1.000 | 0.01     | 374.3 | 25.83   | 0.00000 | 0.000001  | 1.00  | 23.81    | 0.1183 | 0.987         | -0.38     | 417.2 | 30.05      | 0.00077  | 0.000015 |
| 1.796  | 26.59   | 0.2075 | 1.000 | 0.00     | 428.Q | 25.82   | 0.00000 | 0.000000  | 1.108 | 24.07    | 0.1300 | 0.998         | -0.06     | 458.5 | 30.37      | 0.00039  | 9.000007 |
|        |         |        |       |          |       |         |         |           | 1.208 | 24.11    | 0.1417 | 1.000         | 0.00      | 499.9 | 30.43      | 0.00000  | 0.00000  |
|        |         |        |       |          |       |         |         |           | 1.733 | 24.11    | 0.1564 | 1.000         | 0.00      | 551.7 | 30,41      | 0.00000  | 0.00000  |

| RUN: 1                                    | 11771-1                                   | X=34                                                     | . 1-                                     | r.                                                     |                                           |                                           |                                                     |                                                          | PUN:                                                | 111771-3                                            | 3 X=46                                          | · 2•                                      | ο.                                             |                                           |                                           |                                                     |                                                          |
|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|------------------------------------------|--------------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|
| UI =<br>FF/2=<br>F<br>K                   | 22.78<br>0.0008<br>0.0015<br>-0.3368      | 7<br>2<br>-06                                            | 01 =<br>02 =<br>0C =<br>099 =            | 0.3921<br>0.2318<br>3.3107<br>1.4647                   | 8ETA<br>8<br>P+<br>V0+                    | - 1.806<br>- 1.751<br>- 0.013<br>- 0.052  | R D Z<br>H<br>G                                     | = 2754.<br>= 1.691<br>=13.875                            | UI<br>CF/2<br>F<br>K                                | 21.79<br>P.0000<br>0.001<br>-0.263                  | 5<br>5<br>5-06                                  | 01 = 1<br>02 =<br>0C = 1<br>099 =         | 0.5078<br>0.2999<br>7.7313<br>1.8774           | 9 F TA<br>8<br>P+<br>V0 +                 | 1.853<br>1.768<br>0.011<br>0.051          | R D Z<br>H<br>G                                     | = 3412.<br>= 1.693<br>=14.297                            |
| ۲                                         | U                                         | Y/DC                                                     | U/U1                                     | 10-51376                                               | I# ¥*                                     | U+                                        | TAU                                                 | TAULAM                                                   | ۲                                                   | υ                                                   | Y/00                                            | 0701                                      | (U-UE)/U+                                      | ٧+                                        | U+                                        | TAU                                                 | TAULAM                                                   |
| 0.012<br>0.014<br>0.016<br>0.018          | 2.99<br>3.43<br>3.93<br>4.34              | 0.00010<br>0.0012<br>0.0012<br>0.0013                    | 0.13<br>3.15<br>0.17<br>0.17             | -29.49<br>-28.83<br>-28.09<br>-27.47                   | 4.1<br>4.8<br>5.5<br>6.2                  | 4.46<br>5.11<br>5.35<br>6.47              | 0.00111<br>0.00115<br>0.00119<br>0.00123            | 0.000870<br>0.000839<br>0.000807<br>0.000744             | 0.01<br>0.01<br>0.01<br>0.01                        | 4 2.55<br>5 2.96<br>8 3.22<br>3 3.73                | 0.0008<br>0.0009<br>0.0010<br>0.0010            | 0.117<br>0.135<br>0.148<br>0.171          | -30,83<br>-30,18<br>-29,76<br>-28,94           | 4.6<br>5.2<br>5.9<br>6.5                  | 4.09<br>4.74<br>5.16<br>5.98              | 0.00103<br>0.00106<br>0.00109<br>0.00113            | 0.000733<br>0.000732<br>0.000730<br>0.000730             |
| 0,020                                     | 4.88                                      | 0,0015                                                   | 0.214                                    | -26.67                                                 | 6.9                                       | 7.27                                      | 0.00127                                             | 0.000696                                                 | 0.023                                               | 3.95                                                | 0.0012                                          | 0.181                                     | -28,59                                         | 7.2                                       | 6.33                                      | 0.00115                                             | 0.000714                                                 |
| 0.023<br>0.027<br>0.033<br>0.041<br>0.053 | 5.27<br>5.87<br>6.53<br>7.50<br>8.34      | 0.0017<br>0.0020<br>0.0024<br>0.0031<br>0.0040           | 0.23                                     | 2 -26.08<br>-25.20<br>7 -24.21<br>9 -22.77<br>5 -21.52 | 7.9<br>9.3<br>11.4<br>14.2<br>18.4        | 7.86<br>8.75<br>9.74<br>11.18<br>12.43    | 0.00131<br>0.00136<br>0.00143<br>0.00152<br>0.00161 | 0.000593<br>0.000501<br>0.000396<br>0.000312<br>0.000225 | 0,02<br>0,03<br>0,03<br>0,04<br>0,06                | 5 4.57<br>5 5.44<br>7 6.19<br>7 6.98<br>7 7.77      | 0.0014<br>0.0017<br>0.0021<br>0.0027<br>0.0035  | 0.210<br>0.250<br>0.284<br>0.320<br>0.357 | -27.60<br>-26.19<br>-25.02<br>-23.73<br>-22.47 | 8.1<br>9.8<br>12.1<br>15.3<br>20.2        | 7.32<br>8.73<br>9,90<br>11.19<br>12.45    | 0.00120<br>0.00127<br>J.00134<br>0.00142<br>0.00151 | 0.000533<br>0.000533<br>0.000405<br>0.000279<br>0.000183 |
| 0.070<br>0.095<br>0.130<br>0.170<br>0.220 | 9.08<br>9.95<br>10.73<br>11.34<br>11.85   | 0.0052<br>0.0071<br>0.0097<br>0.0127<br>0.0127           | 0.394<br>0.43<br>0.47<br>0.49<br>0.49    | -20.41<br>-19.11<br>-17.95<br>3 -17.05<br>-16.28       | 24.4<br>33.1<br>45.4<br>59.4<br>76.9      | 13.53<br>14.84<br>15.99<br>16.90<br>17.66 | 0.00170<br>0.00183<br>0.00196<br>0.00208<br>0.00208 | 0.000155<br>0.000101<br>0.000070<br>0.000055<br>0.000055 | 0.08<br>0.12<br>0.16<br>0.21<br>0.21                | 7 8.75<br>9.28<br>2 10.09<br>7 10.65<br>7 11.19     | 0.0049<br>0.0065<br>0.0091<br>0.6122<br>0.0156  | 0.402<br>0.426<br>0.463<br>0.490<br>0.514 | -20.90<br>-20.05<br>-18.74<br>-17.80<br>-16.93 | 28.4<br>39.8<br>52.8<br>70.7<br>90.3      | 14.02<br>14.87<br>16.18<br>17.12<br>17.94 | 0.00163<br>0.00173<br>0.00187<br>0.00200<br>0.00213 | 0.000117<br>0.000077<br>0.000047<br>0.000047             |
| 0.270<br>0.345<br>0.420<br>0.495<br>0.570 | 12.50<br>13.24<br>14.11<br>14.92<br>15.63 | 0.0203<br>0.0259<br>0.0315<br>0.0372<br>0.0372           | 0.54<br>0.58<br>0.62<br>0.65<br>0.68     | -15.31<br>-14.21<br>-12.91<br>-11.85<br>-10.65         | 94.5<br>120.7<br>147.0<br>173.3<br>199.6  | 18.63<br>19.73<br>21.03<br>22.09<br>23.30 | 0.00231<br>0.00243<br>0.00254<br>0.00256<br>0.00256 | 0.000041<br>0.000041<br>0.000039<br>0.000039<br>0.000039 | 0 • 35;<br>n • 42;<br>n • 50;<br>n • 60;<br>9 • 70; | 2 12.07<br>12.60<br>2 13.18<br>2 13.92<br>14.60     | 0.0199<br>0.0241<br>0.0283<br>0.0340<br>0.0356  | 0.554<br>0.578<br>0.655<br>0.639<br>0.670 | -15,58<br>-14,72<br>-13,80<br>-12,50<br>-11,52 | 114.7<br>139.1<br>163.0<br>196.2<br>228.8 | 19.34<br>26.20<br>21.12<br>22.32<br>23.40 | 0.00231<br>0.00242<br>0.00251<br>0.00257<br>0.00258 | 0.000036<br>0.000033<br>0.000031<br>0.000030<br>0.000031 |
| 0.645<br>0.720<br>0.795<br>0.895<br>0.995 | 16.34<br>17.13<br>17.73<br>18.76<br>19.71 | 0.0484<br>0.0541<br>0.0597<br>0.0597<br>0.0672<br>0.0747 | 0.710<br>0.75<br>0.770<br>0.624<br>0.865 | -9.59<br>-8.41<br>-7.52<br>-5.99<br>-4.57              | 225.9<br>252.1<br>278.4<br>313.5<br>348.5 | 24.36<br>25.53<br>26.42<br>27.96<br>29.37 | 0.00248<br>0.00237<br>0.00215<br>0.00189<br>0.00159 | 0,000037<br>0,000036<br>0,000035<br>0,000034<br>0,000032 | 0.R0<br>0.92<br>1.05<br>1.17<br>1.30                | 2 15.28<br>7 16.32<br>2 17.33<br>7 18.04<br>2 19.97 | 0.0452<br>0.0523<br>0.0593<br>0.0664<br>0.0734  | 0.701<br>0.749<br>0.795<br>0.828<br>0.871 | -10.43<br>-8.76<br>-7.15<br>-6.00<br>-4.52     | 261.3<br>302.1<br>342.8<br>383.5<br>424.3 | 24.49<br>26.16<br>27.77<br>28.92<br>30.40 | 0.00255<br>0.00248<br>0.00233<br>0.00203<br>0.00203 | 0.00030<br>0.000030<br>0.000029<br>0.000027<br>0.000027  |
| 1.095<br>1.195<br>1.295<br>1.395<br>1.520 | 20.53<br>21.34<br>21.95<br>22.38<br>72.68 | 0.0822<br>0.0897<br>0.0973<br>0.1048<br>0.1142           | 0.90<br>0.93<br>0.96<br>0.93             | -3.34<br>-2.14<br>-1.23<br>-C.59<br>-0.14              | 383.5<br>418.6<br>453.6<br>498.7<br>532.5 | 30.60<br>31.81<br>32.71<br>33.35<br>33.80 | 0.00128<br>0.00104<br>0.00680<br>0.00657<br>0.00657 | 0.000023<br>0.000017<br>0.000012<br>0.000012<br>0.000012 | 1,452<br>1,607<br>1,752<br>1,902<br>2,102           | 19.84<br>20.63<br>21.25<br>21.63<br>21.81           | 0.0819<br>0.0903<br>0.09479<br>0.1073<br>0.1185 | 6.911<br>6.947<br>0.976<br>0.993<br>1.001 | -3.12<br>-1.96<br>-0.82<br>-0.26<br>0.03       | 473.2<br>522.0<br>570.9<br>619.8<br>635.0 | 31.80<br>33.06<br>34.10<br>34.66<br>34.95 | 0.00137<br>0.00103<br>0.00077<br>0.00052<br>0.00022 | 0.000021<br>0.000016<br>0.000011<br>0.000008<br>0.000003 |
| 1.645<br>1.770<br>1.885                   | 22.78<br>22.78<br>72.78                   | 0.1236<br>0.1329<br>0.1416                               | 1.000                                    | 0.01<br>0.01<br>0.00                                   | 576.3<br>620.1<br>660.4                   | 33.96<br>33.96<br>33.94                   | 0.00000<br>0.00000<br>0.00000                       | 0.000002<br>0.000001<br>0.000000                         | 2.30<br>2.50                                        | 71.82<br>21.79                                      | C.1298<br>0.1411                                | 1.001                                     | 0.05<br>5.00                                   | 750.1<br>815.3                            | 34.97<br>34.92                            | 0.00000<br>0.00000                                  | -0.000000                                                |

| RUN: 1 | 11771-3 | X=58   | . 2= 0  |          |            |         |         |          | RUN: 1       | 11771-3 | X = 70.        | . Į=          | n.        |       |         |         |           |
|--------|---------|--------|---------|----------|------------|---------|---------|----------|--------------|---------|----------------|---------------|-----------|-------|---------|---------|-----------|
|        | 70 86   |        | D1 = 0  | 6034     | 85 14      | . 1.820 | R D 2   | . 3973.  | u <b>t</b> • | 20.46   |                | 01 =          | 0.6987    | BFTA  | - 1.839 | RDZ     | = 4544.   |
| CE/2-  | 0.0007  | 9      | n2 = 0  | 36.29    | 8          | - 1.757 | н       | = 1.662  | CF/2=        | C.0007  | 6              | D2 *          | 0.4253    | в     | = 1.769 | н       | • 1.643   |
| e .    | 0 0013  | é      | 00 +21  | 44.84    | <b>D</b> + | . 0.010 | G       | #14.165  | F =          | 0.0013  | 5              | DC #2         | 5.2976    | P+    | = 0.009 | G       | *14.162   |
| ξ.     | -n.218E | -06    | 099 = 2 | 2.3054   | vo+        | = 0.049 |         |          | к -          | -0.1985 | -96            | 099 -         | 2.7056    | ¥0+   | * 0.049 |         |           |
|        |         |        |         |          |            |         |         |          |              |         |                |               |           |       |         |         |           |
| Y      | U       | Y/DC   | UZUT    | (0-01170 | ŧ Υ+       | U+      | TAU     | TAUL AN  | Y            | U       | Y/DC           | 10/01         | {0-01170* | ۲+    | U+      | TAIJ    | TAULAM    |
| 0,017  | 2.89    | 0.0008 | 0.138   | -30.64   | 5.2        | 4.91    | 0.00102 | 0.000720 | 0.020        | 3.47    | 0.0002         | 0.170         | -30.05    | 5.9   | 6.14    | 0.00103 | 0.100696  |
| 0.019  | 3.29    | 0.0009 | 0.157   | -29,97   | 5.9        | 5.58    | 0.00105 | 0.000713 | 0.022        | 3.66    | 0.0004         | 0.179         | -29.73    | 6.5   | 6.47    | 0.00104 | 0.000691  |
| 0.021  | 3.57    | 0.0010 | 0.170   | -29.49   | 6.5        | 6.06    | 0.00108 | 0.000706 | 0.024        | ۹.97    | 0.0009         | 0.194         | -29.16    | 7.1   | 7.03    | 0.00107 | 0.000665  |
| 0.023  | 3.94    | 0.0011 | 0.188   | -28.87   | 7.1        | 6.69    | 0.00111 | 0.000675 | 1.026        | 4.26    | 0.0010         | 0.208         | -28.60    | 7.7   | 7.53    | 0.00109 | 0.000622  |
| 0.024  | 4.34    | 0.0012 | 0.207   | -28.18   | 8.0        | 7.36    | 0.00114 | 0.000643 | 0.029        | 4.64    | 0.0011         | 0.227         | -27.98    | 6.6   | 8.21    | 0.00112 | 0.000589  |
| 0.031  | 5.17    | 0.0014 | 0.247   | -26.78   | 9.5        | 8.76    | 0.00121 | 0.000550 | 0.034        | 5.39    | 0.0113         | 0.264         | -20.65    | 10.0  | 9.54    | 0.00118 | 0.000482  |
| 0.038  | 5.86    | 0.0016 | 0.280   | -25.61   | 11.7       | 9.94    | 0.00127 | 0.000420 | 0.042        | 5.95    | 0.0017         | 0.291         | -25.67    | 12.4  | 10.53   | 0.00123 | 0,000353  |
| 0.044  | 6.84    | 0.0022 | 0.326   | -23.94   | 14.8       | 11.61   | 0.00135 | 0.000297 | 0.054        | 6.79    | 0.0021         | 0.332         | -24.18    | 15.9  | 12.02   | 3.06131 | 0.00743   |
| 0.060  | 7.45    | 0.0026 | 0.355   | -22.92   | 18.5       | 12.63   | 0.00142 | 7.000206 | 0.072        | 7.49    | C.CO2P         | 0,366         | -22.95    | 21.3  | 13.24   | 0.00138 | 0.000159  |
| 0.075  | 7,94    | 0.0035 | 3.379   | -22.08   | 23.1       | 13.46   | 0.00148 | 0.000147 | 0.797        | 8.13    | 0.0036         | 0.347         | -21.92    | 28.6  | 14.38   | 0.00147 | 0.000108  |
| 0.100  | 8.63    | 3.0047 | 0.412   | -20.92   | 30.8       | 14.63   | 0.00157 | 0.000096 | 0.137        | 8.99    | 0.0054         | 0.440         | -20.25    | 40.4  | 15.91   | 0.00159 | 0.00067   |
| 0.140  | 9.22    | 0.0065 | 0.440   | -19.92   | 43.1       | 15.63   | 0.00169 | 0.000066 | 0,197        | 9.57    | 0.0076         | 0.468         | -19.27    | 58.Z  | 16.93   | 0.00171 | 0.000046  |
| 0.195  | 9.93    | 0.0091 | 0.474   | -18.71   | 60.1       | 16.84   | 0.00184 | 0.000049 | 0.257        | 10.04   | 0.0102         | 0.491         | -10.44    | 75.9  | 17.76   | 0.00181 | 0,000035  |
| 0.260  | 10.61   | 0.0121 | 0.506   | -17.56   | 80.1       | 17.99   | 0.00199 | 0.000038 | 0.357        | 10.53   | 0.0141         | ^ <u>.515</u> | -17.56    | 105.4 | 18.63   | 0.06195 | 0.000029  |
| 0.335  | 11.14   | 0.0156 | 0.531   | -16.66   | 103.2      | 18.89   | 0.00212 | 0.00031  | n.457        | 11.36   | 0.0181         | 6.555         | -le.11    | 134.9 | 20.09   | 0.00211 | 0.00029   |
| 0.410  | 11.68   | 0.0191 | 0.557   | -15,75   | 126.3      | 19.80   | 0.00223 | 0.000029 | 0.557        | 11.66   | 0.6220         | 0.570         | -15.57    | 164.4 | 20.63   | 0.00221 | 0.00027   |
| 0. 510 | 12.19   | 0.0236 | 5.582   | -14.87   | 157.1      | 20.67   | 0.00235 | 0.00027  | 0.657        | 12.38   | 0.0260         | 3.005         | -14.27    | 194.0 | 21.90   | C.0CZ35 | 0,000025  |
| 0.410  | 12.44   | 0.0284 | 0.004   | -14.08   | 147.9      | 21.47   | 0.00243 | 0.000026 | 0.782        | 11.16   | 0.0309         | 0.643         | -12.91    | 230.9 | 23.29   | 0.00248 | 0.00023   |
| 0.710  | 13.42   | 0.0331 | 0.640   | -12.79   | 218.6      | 22.76   | 0.00255 | 0.000027 | 0.907        | 13.65   | 0.0359         | 0.667         | -12.05    | 267.8 | 24.14   | 0.00253 | 0.00022   |
| 0.835  | 14.11   | 0.0389 | 0.673   | -11.62   | 257.1      | 23.93   | 0.00263 | 1,000027 | 1.032        | 14.14   | <b>J.</b> 040E | 5.691         | -11.18    | 304.7 | 25.02   | 0.00254 | 0.000022  |
| 0.960  | 14.79   | 0-0448 | 0.706   | -10.47   | 295.6      | 25.08   | 0.00264 | 0.000024 | 1.157        | 14.74   | 0.0458         | 0.721         | -10-11    | 341.6 | 26.08   | 0.00252 | 0.000021  |
| 1.045  | 15.61   | 0.0506 | 0.746   | -9.05    | 334.1      | 26.50   | 0.00261 | 0.000025 | 1.307        | 15.46   | 0.0517         | 0.755         | -8.95     | 385.8 | 27.34   | 0.00245 | 0.000021  |
| 1.210  | 14.32   | 0.0564 | 0.779   | -7.87    | 372.6      | 27.68   | 0.00249 | 0.000024 | 1,457        | 16.20   | 0.0576         | 0.792         | -7.54     | 430.1 | 28.65   | 0.00235 | 0.000020  |
| 1.340  | 17.39   | 0.0634 | 0.815   | -6.57    | 418.8      | 28.98   | 0.00228 | 0.000023 | 1.607        | 16.76   | 0.0635         | 0.819         | -6.54     | 474.4 | 29.64   | 0.00214 | 0.000019  |
| 1.510  | 17.93   | 0.0704 | 0.855   | - 5. 14  | 465.0      | 30.40   | 0.00203 | 0,000021 | 1.757        | 17.41   | 0.0695         | 0.851         | - 5. 39   | 516.7 | 30.81   | 0.06191 | 0.000018  |
| 1.660  | 18.65   | 0.0774 | 0.870   | - 3. 91  | 511.2      | 31.64   | 0.00171 | 0.000019 | 1.917        | 17,98   | 0.0754         | 3.879         | -4.39     | 563.0 | 31.80   | 0.00160 | 0.000017  |
| 1.410  | 19.11   | 0.0844 | 0.922   | -2.77    | 557.4      | 32.78   | 0.00136 | 0,000017 | 2.107        | 18.79   | 0.0833         | 0.918         | - 2.95    | 622.0 | 33.24   | 0.06121 | 0.000015  |
| 2.010  | 20.13   | 0.0937 | 0.960   | -1.41    | 619.0      | 34.14   | 0.00095 | 0.000012 | 2.307        | 19,40   | 0.0912         | 0.948         | -1.83     | 581.I | 34.32   | 0.00081 | 0.000012  |
| 2.210  | 20.63   | 0.1030 | 0.984   | -0.56    | 680.6      | 34.99   | 0.00057 | 0.00008  | 2.507        | 19.97   | 0.0991         | 0.976         | -0.80     | 740.1 | 35.33   | 0.00056 | 0.00009   |
| 2.410  | 20.87   | 0.1124 | 0.996   | -0.13    | 742.2      | 35.42   | 0.00028 | 0.00004  | 2.407        | 20.40   | 0.1110         | 0.497         | -0.11     | 328.7 | 36.09   | 0.06025 | C1 C00004 |
| 2.710  | 20.38   | 0.1263 | 1.001   | 0.03     | 834.6      | 35.58   | 0.00000 | 0.00000  | 3.207        | 20.49   | 0.1268         | 1.002         | 0.06      | 945.8 | 36.25   | 0.00000 | 0.00000   |
| 3.010  | 20.96   | 0.1403 | 1.000   | 0.00     | 926.9      | 35.55   | 0.00000 | 0.00000  | 3,607        | 20.46   | 0,1426         | 1.000         | 0.00 1    | 064.8 | 36.19   | 0.00000 | 0.000000  |

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| RUN: 1               | 11771-3                    | X = 8 2  | . z= (                                | <b>.</b>                             |                          |                                          |               |                                 | BUNI                        | 111771-3                             | x=90.   | 7= 0                                  |                                      |                           |                                          |                                       |
|----------------------|----------------------------|----------|---------------------------------------|--------------------------------------|--------------------------|------------------------------------------|---------------|---------------------------------|-----------------------------|--------------------------------------|---------|---------------------------------------|--------------------------------------|---------------------------|------------------------------------------|---------------------------------------|
| UI<br>CF/2<br>F<br>K | 20.00<br>0.00013<br>0.0013 | 4<br>-06 | D1 = 0<br>D2 = 0<br>DC = 2<br>D99 = 1 | 0.7977<br>0.4881<br>9.2779<br>3.0886 | 8 ETA<br>8<br>9 +<br>VC+ | = 1.397<br>= 1.765<br>= 0.008<br>= 0.048 | RD2<br>H<br>G | 2 = 5097.<br>= 1.634<br>=14.246 | U1 ≠<br>CF/2=<br>F ≠<br>K = | 19.73<br>0.0007<br>0.0012<br>-C.168E | 3-06    | 01 = 0<br>02 = 0<br>0C =32<br>099 = 3 | 0.8640<br>0.5309<br>2.0137<br>8.3884 | 8E TA<br>8<br>9 +<br>90 + | = 2.053<br>= 1.771<br>= 0.009<br>= 0.048 | RD2 = 5471.<br>H = 1.627<br>G =14.285 |
| ۳                    | U                          | ¥/DC     | U/UI                                  | (0-01)/0                             | )* Y+                    | U+                                       | TAU           | TAULAN                          | ¥                           | U                                    | Y/DC    | ועעני                                 | (0-0[)/0+                            | ۲.                        | U+                                       | TAULAN                                |
| C.050                | 2.98                       | 0.0007   | 0.149                                 | -31.24                               | 5.7                      | 5.47                                     | 0.00097       | 7.00667                         | a                           | 3 34                                 | n 0004  | 0.144                                 | -10 97                               | 5.5                       | 6.08                                     | 0.000676                              |
| 0.023                | 3.42                       | 0-0008   | 0.171                                 | -30.43                               | 6,5                      | 6,27                                     | 0.00100       | r.00^642                        | 0.020                       |                                      | 0.0007  | 0.104                                 | -30.18                               | 6.1                       | 6.88                                     | 0.000571                              |
| 0.026                | 3.95                       | 0.0009   | 0.197                                 | -79.46                               | 7.4                      | 7.25                                     | 0.00104       | 0.000418                        | 0.023                       | 5.00                                 | 0.0007  | 0 204                                 | -29.43                               | 1.7                       | 7.67                                     | 0,007515                              |
| 0.029                | 4.40                       | 0.0010   | 0.220                                 | -28.63                               | 0.3                      | 8.08                                     | 0.00108       | 0.000604                        | a 070                       | 4 79                                 | 0.0000  | 0 217                                 | - 29. 12                             | B.0                       | 8.03                                     | 0.000429                              |
| 0,034                | 4.97                       | C+0012   | 9.249                                 | -27.58                               | 9.7                      | 9.13                                     | 0.00112       | 0.000502                        | 1 039                       | 4.83                                 | 0.0012  | 0.245                                 | -27.98                               | 16.8                      | 9.08                                     | 0.000364                              |
|                      |                            |          |                                       |                                      |                          |                                          |               |                                 | 0.03*                       | 4.55                                 | VI. 012 |                                       | 1                                    |                           |                                          |                                       |
| 0.041                | 2.20                       | 0.0014   | 0.278                                 | -26.51                               | 11.1                     | 10.20                                    | 0.00117       | 0.000342                        | 0.046                       | 5.40                                 | 0.0014  | 0.274                                 | -26.92                               | 12.7                      | 10.14                                    | 0.000320                              |
| 0.051                | 6.22                       | 0.0017   | 0.311                                 | -25,29                               | 14.5                     | 11.41                                    | 0.00123       | 0.000279                        | 0.056                       | 4 15                                 | 0.017   | 2.312                                 | -25-50                               | 15.5                      | 11.55                                    | 0.000249                              |
| 0.068                | 1.11                       | 0.0023   | 0.358                                 | -23.55                               | 19.3                     | 13.15                                    | 0.00151       | 0.00184                         | 0.063                       | 6.55                                 | 0.0020  | 0.337                                 | -24.57                               | 17.5                      | 12.48                                    | 0.000239                              |
| 0.093                | 1.19                       | 0.0032   | 0.384                                 | -22.41                               | 20.5                     | 14.29                                    | 0.00138       | 0.000116                        | 0.079                       | 7.16                                 | 0.0024  | 2.361                                 | -23.61                               | 21.6                      | 13.44                                    | 0.000169                              |
| 0.135                | 8.71                       | 0.0045   | (.425                                 | ~21.09                               | 37.8                     | 15,61                                    | 0.00140       | 0.00004                         | 3.103                       | 7.61                                 | 0.0012  | 0.336                                 | -22.77                               | 28.6                      | 14.29                                    | 0.000106                              |
| 0.109                | 0.17                       | 0.0048   | 3 4 50                                | -10.07                               | 54 1                     | 14 94                                    | 0.00161       | 0 000044                        |                             |                                      |         |                                       |                                      |                           |                                          |                                       |
| 0.170                |                            | 0.0007   | 3.439                                 | -19.87                               | 20.3                     | 10.54                                    | 0.00177       | 0.000148                        | 0.143                       | 8.50                                 | 0.0045  | 0.431                                 | -21.09                               | 39.7                      | 15.96                                    | 0.000066                              |
| 0.177                | 7450                       | 0.0177   |                                       | -17,12                               |                          | 11.30                                    | 0.00172       | 0.000000                        | 0.213                       | 9.19                                 | 0.0066  | 3.461                                 | -19.98                               | 59.2                      | 17.07                                    | 0.000044                              |
| 0.375                | 10.31                      | 0.0127   | 0.510                                 | -11.11                               | 100.1                    | 10.93                                    | 0.00105       | 0.00024                         | 0.313                       | 9.70                                 | 8601-0  | 0.492                                 | -18.94                               | 87.0                      | 18.22                                    | 0.000032                              |
| 0.490                | 11.04                      | 0.0170   | 0.574                                 | -16.43                               | 177 7                    | 20.25                                    | 0.00203       | 0.0000025                       | 7.413                       | 10.12                                | 0.0129  | 0.513                                 | -18.06                               | 114.8                     | 19.00                                    | 0.000025                              |
| 9.025                | 11.50                      | 0.0213   | 0.576                                 | -10.44                               | 1                        | 21.22                                    | 0.00220       | 0.000022                        | 3.539                       | 11.05                                | 0.0168  | .500                                  | -16.30                               | 149.6                     | 20.76                                    | 0.00021                               |
| 0.748                | 12.17                      | 0.0755   | C 608                                 | -14 17                               | 217 8                    | 22.33                                    | 0-00231       | 0.000021                        | ••••                        |                                      |         |                                       |                                      |                           |                                          |                                       |
| 0.140                | 1 7 75                     | 0.0101   | 0.008                                 | -13.30                               | 755 5                    | 22.33                                    | 0.00236       | 0.000021                        | 2.663                       | 11.43                                | 0.0207  | 0.579                                 | -15.60                               | 184.3                     | 21.46                                    | 0.000020                              |
| 1 040                | 13 79                      | 0.0307   | 0.465                                 | -17.30                               | 209 2                    | 74 40                                    | 0.00242       | 0.000020                        | 0.738                       | 11.57                                | 0.0270  | 3.596                                 | -15.33                               | 235.2                     | 21.72                                    | n. 000 020                            |
| 1 100                | 13 03                      | 0.0409   | 0.497                                 | -11 11                               | 340.0                    | 25 57                                    | 0.00249       | 0.000010                        | 0.813                       | 11.94                                | 0.0254  | 3.002                                 | -14.74                               | 226.0                     | 22.31                                    | 0.000319                              |
| 1.348                | 14.85                      | 0.0460   | 0.728                                 | -10.00                               | 193 6                    | 26 20                                    | 0-00252       | 0.000019                        | 0.963                       | 12.60                                | 0.0301  | 0.636                                 | -13.40                               | 267.7                     | 23.66                                    | 0.000020                              |
| 1. 349               | 14100                      | 0.0400   | 0.725                                 | -10.00                               | 203.0                    | 20.00                                    | 01001 11      | 0.000014                        | 1.113                       | 13.16                                | 3.0349  | 0.067                                 | -17. 54                              | 309.5                     | 24.71                                    | 0.002019                              |
| 1 408                | 15.70                      | 0.0512   | 0.760                                 | +8.87                                | 474.7                    | 27.90                                    | 0.00248       | 0.00018                         |                             |                                      |         |                                       |                                      |                           |                                          |                                       |
| 1.698                | 15.85                      | 0.0580   | 0.793                                 | -7.61                                | 483.2                    | 29.10                                    | 0.00231       | 0.000018                        | 1.263                       | 11.74                                | 0.0394  | 6,697                                 | -11.24                               | 351.2                     | 25.81                                    | 0.00014                               |
| 1.898                | 16.51                      | 0.0648   | 0.825                                 | -6.41                                | 540.1                    | 30.30                                    | 0.00210       | 2.000017                        | 1.411                       | 14.25                                | C.C441  | 0.722                                 | -10.29                               | 392.9                     | 26.77                                    | 0.00017                               |
| 2.198                | 17.67                      | 0.0751   | 0.884                                 | -4. 27                               | 625.4                    | 32.43                                    | 0.00173       | 0.000015                        | 1.613                       | 14.83                                | 0.0504  | 0.752                                 | -9.21                                | 448.5                     | 27.95                                    | 0.000016                              |
| 2.498                | 18.66                      | 0.0853   | 0.933                                 | -2.46                                | 710.0                    | 36.25                                    | 0.00119       | 0.000011                        | 1.813                       | 15.56                                | 0.0566  | 3.789                                 | -7.93                                | 504.1                     | 29.23                                    | 0.000016                              |
|                      |                            |          |                                       |                                      |                          |                                          |               |                                 | 7.013                       | 16.15                                | 0.0620  | 0.819                                 | -6.72                                | 559.7                     | 36,33                                    | 0,00016                               |
| 2.798                | 19,36                      | 0.0956   | 0.968                                 | -1.16                                | 796.1                    | 35.54                                    | 0.00066       | 0.000308                        |                             |                                      |         |                                       |                                      |                           |                                          |                                       |
| 3.098                | 19.81                      | 0.1058   | 0,991                                 | -0.34                                | 891.5                    | 36.30                                    | 0.00029       | 3.C000C5                        | 2.313                       | 17.11                                | 0.0722  | 0.867                                 | -4.93                                | 643.2                     | 32.13                                    | 0.000014                              |
| 1.398                | 19.95                      | 0.1161   | 0.998                                 | -0.09                                | 956.9                    | 30.62                                    | 0.00005       | 0.000002                        | 2.613                       | 18.05                                | 0.0410  | 0.015                                 | - 3.15                               | 726.6                     | 33.91                                    | 0.000012                              |
| 3.698                | 20.01                      | 0.1263   | 1.001                                 | 0.02                                 | 1052.2                   | 36.73                                    | 0.00000       | -0.000000                       | 2.93                        | 18.96                                | 0.0910  | 0.956                                 | -1.67                                | 810.0                     | 35.42                                    | 0.00009                               |
| 3.89R                | 20.00                      | 0.1331   | 1.000                                 | 0.00                                 | 1109.1                   | 36.70                                    | 0.00000       | 0.000000                        | 3,211                       | 19.36                                | 0.1004  | 0.981                                 | -0,89                                | 893.4                     | 30.36                                    | 6.00000                               |
|                      |                            |          |                                       |                                      |                          |                                          |               |                                 | 3.513                       | 19.55                                | 0.1097  | 9.966                                 | -0.14                                | 412.4                     | 36.91                                    | 0.004003                              |
|                      |                            |          |                                       |                                      |                          |                                          |               |                                 |                             |                                      |         |                                       |                                      |                           | 1 1 10                                   | 0.000001                              |
|                      |                            |          |                                       |                                      |                          |                                          |               |                                 | 1,91                        | 19.76                                | 0.1222  | 1+201                                 | 0.05                                 | 1088.1                    | 37.19                                    | 0.000001                              |
|                      |                            |          |                                       |                                      |                          |                                          |               |                                 | 4.41                        | 19.73                                | 0.1378  | 1.000                                 | 0.00                                 | 1261.6                    | 31.05                                    |                                       |

| RUN: 1        | 01371-2 | 2 X= 2 | . 2-         | 0.               |           |                    |                         | RUN:          | 101371-2 | 2 X=10 | . z=           | ٥.        |           |         |         |           |
|---------------|---------|--------|--------------|------------------|-----------|--------------------|-------------------------|---------------|----------|--------|----------------|-----------|-----------|---------|---------|-----------|
| UI =<br>CF/2= | 29.77   | 8      | 01 =<br>D2 = | 0.0629<br>0.0391 | BET#<br>8 | = 0.189<br>= 0.877 | RD2 = 591.<br>H = 1.611 | UI =<br>CF/2= | 27.05    | 52     | 01 =<br>02 = 1 | 0.1506    | BETA<br>B | = 1.164 | R D 2   | 2 - 1213. |
| F =           | 0,0020  | 00     | DC =         | 1.3178           | P+        | = 0.0042           | G = 7.940               | F =           | 0.0020   | 1      | 0C +           | 3.8620    | P+        | = 0.014 | 4 6     | -10.605   |
| к =           | -0.4548 | - 06   | 099 4        | 0.3210           | ¥0+       | - 0.0419           |                         | К =           | -0.8558  | -06    | 099 = 1        | 0.5772    | VC+       | = 0.051 | 6       |           |
|               |         |        |              |                  |           |                    |                         |               |          |        |                |           |           |         |         |           |
| ۲             | U       | Y/DC   | 6701         | 10-011/0         | +Y #      | U+                 | TAULAM                  | ¥             | U        | Y/DC   | 0701           | (0-01170) | v •       | U+      | TAU     | TAULAN    |
| 0.004         | 4.41    | 0.0033 | 0.148        | -17.84           | 3.1       | 3.10               | 0.001937                | 0.005         | 3.04     | 0.0013 | 0.112          | - 22.77   | 2.7       | 2.88    | 4 00146 | 0.001343  |
| 0.005         | 5.03    | 0.0040 | 0.169        | -17.40           | 3.8       | 3.54               | 0.001849                | 0.006         | 3.30     | 0.0016 | 0.122          | -77-57    | 1.2       | 1.11    | 0 00183 | 0 001200  |
| 0.006         | 5.77    | 0.0048 | 0.194        | -16.89           | 4.5       | 4.06               | 0.001761                | 0.008         | 3.03     | 0.0021 | 0.148          | -21.86    | 4.1       | 3.70    | 0.00101 | 0 0011 84 |
| 0.007         | 6.46    | 0.0055 | 0.217        | -16.40           | 5.3       | 4.54               | 0.001659                | 0.010         | 6.96     | 0.0026 | 0.183          | -20.95    | 5.4       | 4.70    | 0.00141 | 0.001072  |
| 0.009         | 7.99    | 0.0071 | 0.268        | -15.32           | 6.7       | 5.62               | 0.001575                | 0.012         | 5.01     | 0.0031 | 0.218          | -20.05    |           | 6 40    | 0.00200 | 0.001000  |
|               |         |        |              |                  |           |                    |                         | i i i i       |          | 0.0071 | 01110          |           | 0.4       | 2.00    | 0.00204 | 0.001000  |
| 0.011         | 9.39    | 0.0086 | 0.315        | -14.34           | 8.Z       | 6.60               | 0.001392                | 0.015         | 6.83     | 0.0039 | 0.252          | -19,1A    | 8.0       | 6.47    | 0.00218 | 0.003864  |
| 0.013         | 10.69   | 0.0101 | 0.359        | -13.42           | 9.6       | 7,52               | 0.001241                | 0.018         | 7.83     | 0.0047 | 0.290          | -18.22    | 9.6       | 7.43    | 0 00220 | 0.000727  |
| 0.015         | 11.08   | 0.0116 | 0.399        | -12.59           | 11.0      | 8.36               | 0.001096                | 0.022         | B. 64    | 0.0057 | 0.327          | -17.27    | 11.0      | 6.36    | 0.00228 | 0.000599  |
| 0.017         | 12.56   | 0.0131 | 0.422        | -12.11           | 12.5      | 8.84               | 0.000968                | 0.026         | 9.61     | 0.0067 | 0.355          | -16.54    | 13.9      | 9.11    | 0.00747 | 0.000500  |
| 0.014         | 13.53   | 0.0146 | 0.454        | -11.43           | 13.9      | 9.52               | 0.000821                | 0.031         | 10.46    | 0.0080 | 0.387          | -15.73    | 16.6      | 9.91    | 0.00756 | 0.000395  |
|               |         |        |              |                  |           |                    |                         |               |          |        |                |           |           |         |         |           |
| 0.022         | 14.61   | 0.0169 | 0.491        | -10.67           | 16.1      | 10.27              | 0.000662                | 0.037         | 11.39    | 0.0096 | 0.421          | -14.85    | 19.8      | 10.80   | 0.00265 | 0.000314  |
| 0.025         | 15.50   | 0.0192 | 0,521        | -19.04           | 18.3      | 10.90              | 0.000558                | 0.046         | 12.19    | 0.0119 | 0.451          | -14.09    | 24.6      | 11.56   | 0.00273 | 0.000237  |
| 0.029         | 16.15   | 0.0222 | 0.547        | -9.59            | 21.2      | 11.36              | 0.000445                | 0.056         | 12.88    | 0.0145 | 0.476          | -13.43    | 30.0      | 12.22   | 0.00279 | 0.000184  |
| 0.033         | 16.88   | 0.0253 | 0.567        | -9.06            | 24.0      | 11.68              | 0.00370                 | 0.071         | 13.75    | 0.0184 | 0.508          | -12.62    | 38.0      | 13.03   | 0.00265 | 0.000142  |
| 0.038         | 17.68   | 0.0291 | 0.594        | -8.51            | 27.7      | 12.43              | 0.000311                | 0.091         | 14.67    | 0.0236 | 0.542          | -11.74    | 48.7      | 13.91   | 0.00288 | 0.000117  |
|               | 10 64   | 0 0114 | 0 433        | - 7 40           |           | 13.46              | 0.000171                |               |          |        |                |           |           |         |         |           |
| 0.044         | 18.50   | 0.0336 | 0.623        | -1.84            | 32.0      | 13.06              | 0.000271                | 5.111         | 15.42    | 0.0287 | 0.570          | -11.03    | 59.5      | 14.62   | 0.00287 | 0.000103  |
| 0.052         | 19.33   | 0.0397 | 0.649        | - [ • 32         | 1/.0      | 13.60              | 0.000224                | 0.136         | 16.32    | 0.0352 | 0.6C3          | -10.17    | 72.8      | 15.48   | 0.00282 | 0.000094  |
| 0.062         | 20.21   | 0.0473 | 0.6/9        | -0.73            |           | 19.21              | 0.000186                | 0.166         | 17.24    | 0.0430 | 0.637          | -9.31     | 88.9      | 16.34   | 0.00269 | 0.000087  |
| 0.015         | 21.23   | 0.0571 | 0.713        | -0.01            |           | 14.74              | 0.000136                | 0.201         | 18.32    | 0.0520 | 0.677          | -8.28     | 107.7     | 17.37   | 0.00251 | 0.000083  |
| 0.040         | 22.17   | 0.0685 | 0./44        | - 5. 55          | 67.2      | 12.34              | 0.000139                | 0.241         | 19.49    | 0.0624 | 0.720          | -7.17     | 129.1     | 18.48   | 0.00225 | 0.000080  |
| 0.105         | 23.05   | 0.0799 | 0.776        | -4.73            | 76.0      | 16.21              | 0.000124                |               |          |        |                |           |           |         |         |           |
| 0.125         | 24.14   | 0.0951 | 0.811        | -3.96            | 90.5      | 16.98              | 0.000109                | 0.201         | 20.68    | 0.0128 | 0.76           | -6.04     | 156.5     | 19.60   | 0.00201 | 0.000077  |
| 0.145         | 25.07   | 0.1103 | 0.842        | -3.31            | 104.9     | 17.61              | 0.000097                | 0.321         | 21/0     | 0.0831 | 0.809          | -5.02     | 1/1.9     | 20.63   | 0.00176 | 0.000074  |
| 0.165         | 25.90   | 0.1254 | 0.670        | -2.72            | 119.3     | 18.22              | 0.000085                | 0.301         | 22.80    | 0.0935 | 0.045          | - 3.98    | 143.4     | 21.07   | 0.00158 | 0.000069  |
| 0.190         | 26.80   | 0.1444 | 0.900        | -2.09            | 137.4     | 18.85              | 0.000071                | 0.401         | 23.00    | 0.1058 | 0.000          | -3.01     | 134 3     | 22.09   | 0.00145 | 0.000062  |
|               |         |        |              |                  |           |                    |                         | 0.441         | 29.01    | 0.1142 | 0.414          | -2.07     | 230.2     | 23.51   | 0.00140 | 0.000053  |
| 0.215         | 27.61   | 0.1634 | 0.928        | -1.52            | 155.4     | 19.42              | 0.000059                | 0.681         | 25.60    | 0 1245 | 4.944          | -1 37     | 267.4     | 24.27   | 0.00130 | 0.00004.2 |
| 0.245         | 28.32   | 0.1861 | 0.951        | -1.02            | 177.1     | 19.92              | 0.000045                | 0.576         | 26.30    | 0.1362 | 0.977          | -0.71     | 281.7     | 24.94   | 0.00128 | 0.000031  |
| 0.275         | 28.92   | 0.2089 | 0.971        | -0.60            | 198.8     | 20.34              | 0.000033                | 0.576         | 26.78    | 0.1401 | 0 000          | -0.26     | 304 8     | 36 74   | 0.00117 | 0.000010  |
| 0.310         | 29.41   | 0.2355 | 0.988        | -0.26            | 224.0     | 20.68              | 0.003021                | 0.676         | 27.01    | 0.1621 | 0.008          | -0.04     | 115 1     | 25 41   | 0.00093 | 0.003010  |
| 0.350         | 29.66   | 0.2658 | 0.996        | -0.08            | 252.9     | 20.86              | 0.00012                 | 0.701         | 27.07    | 0.1415 | 1.000          | 0.01      | 175.5     | 25.66   | 0.00000 | -0.000000 |
|               |         |        |              |                  |           |                    |                         |               |          |        |                |           |           |         | 0.00000 |           |
| 0.390         | 29.76   | 0.2962 | 1.000        | -0.01            | 281.8     | 20.93              | 0.000004                | 0.776         | 27.05    | 0.2009 | 1.000          | 0.00      | 415.6     | 25.65   | 0.00000 | 0.000000  |
| 0.435         | 29.75   | 0.3303 | L.000        | 0.01             | 314.3     | 20.95              | -0.000002               |               |          |        |                |           |           | 2       |         |           |
| 3.485         | 29.77   | 0.3683 | 1.000        | 0.00             | 350.4     | 20.94              | 0.000000                |               |          |        |                |           |           |         |         |           |

| RUN:  | 101371-2 | 2 X=ZZ | . Z+   | 0.        |       |         |         |          | RUN: 1 | 01371-Z | X=34   | •   |
|-------|----------|--------|--------|-----------|-------|---------|---------|----------|--------|---------|--------|-----|
| U1 -  | 24.64    |        | D1 -   | 0.2890    | BETA  | - 1.675 | R D Z   | = 2081.  | ut =   | 23.31   |        | ٥ı  |
| CF/2= | 0.0010   | 3      | 02 -   | 0.1663    | 8     | = 1.951 | . н     | = 1.738  | CF/2=  | 0.0007  | 8      | 0Z  |
| F =   | 2.0020   | 51     | DC + 1 | 9.0051    | P+    | - 0.014 | 4 G     | =13.232  | F F    | 0.0020  | 2      | OC. |
| К =   | -0.4776  | - 06   | 099 -  | 1.0379    | ¥0+   | = 0,062 | 6       |          | к =    | -0.342E | -06    | 0¢  |
| ۲     | U        | Y/DC   | 0/01   | 10-011704 | • ¥+  | U+      | TAU     | TAULAN   | ¥      | U       | ¥/00   | U   |
| 0.010 | 2.85     | 0.0011 | 0.115  | - 27.56   | 4.0   | 3.60    | 0.00132 | 0.000885 | 0.014  | 2.00    | 0.0009 |     |
| A 017 | 2 17     | 0 0013 | 0.137  | -26.90    | 4.8   | 6.26    | 0.00137 | 0.000857 | 0.014  |         | 0.0001 | ň   |
| 0.015 | 4.14     | 0.0017 | 0.169  | -25.89    | 6.0   | 5.26    | 0.00146 | 0.000816 | 0.017  | 4 10    | 0.0011 | ŏ   |
|       | F 04     | 0 0020 | 0 205  | -74.76    | 7.2   | 6.40    | 0.00155 | 0.000752 | 0.020  | 4.75    | 0.0014 | Ň   |
| 0.022 | 5.98     | 0.0024 | 0.243  | -23.59    | 8.8   | 7.57    | 0.00164 | 0.000602 | 0.030  | 5.83    | 0.0020 | ŏ   |
| 0.027 | 6.84     | 0.0030 | 0.278  | -22.51    | 10.8  | 8.65    | 0.00173 | 0.000479 | 0.036  | 6 .61   | 0.0024 |     |
| 0.033 | 7.71     | 0.0037 | 0.313  | -21.41    | 13.3  | 9.75    | 0.00183 | 0.000365 | 0.044  | 7.12    | 0.0029 | 0   |
| 3.047 | 8.53     | 0.0052 | 0.346  | -20.37    | 18.9  | 10.79   | 0.00195 | 0.000240 | 0.056  | 8.11    | 0.0037 | 0   |
| 0.057 | 9.44     | 0.0063 | 0.383  | -19.22    | 22.9  | 11.93   | 0.00207 | 0.000192 | 0.071  | 8.75    | 0.0047 | 0   |
| 0.067 | 10.05    | 0.0074 | 0.408  | -18.45    | 26.9  | 12.71   | 0.00215 | 0.000157 | 0.096  | 9.59    | 0.0064 | 0   |
| 0.082 | 10.68    | 0.0091 | 0.433  | -17.66    | 32.9  | 13.50   | 0.00225 | 0.003130 | 0.126  | 10.09   | 0.0084 |     |
| 0.102 | 11.32    | 0.0113 | 0.459  | -16,85    | 41.0  | 14.31   | 0.00235 | 0.00097  | 0.156  | 10.69   | 0.0103 | 0   |
| 0.132 | 12.06    | 0.0147 | 0.489  | -15.92    | 53.0  | 15.24   | 0.00247 | 0.000075 | 0.196  | 11.41   | 0.0130 | 0   |
| 0.162 | 12.57    | 0.0180 | 0.510  | -15.27    | 65. L | 15.89   | 0.00255 | 0.000067 | 0.246  | 11.93   | 0.0163 | . 0 |
| 0.202 | 13.41    | 0.0224 | 0.544  | -14.21    | 81.1  | 16.55   | 0.00265 | 0.000061 | 0.296  | 12.55   | 0.0197 | 0   |
| 0.252 | 14.14    | 0.0280 | 0.574  | -13.29    | 101.2 | 17,87   | 0.00270 | 0.000058 | 0.346  | 13.24   | 0.0230 | 0   |
| 0.312 | 15.23    | 0.0346 | 0.618  | -11.90    | 125.3 | 19.26   | 0.002/3 | 0.000054 | 3.396  | 13.62   | 0.0263 | . 0 |
| 0.372 | 16.19    | 0.0413 | 0.657  | -10.69    | 149.4 | 20.47   | 0.00261 | 0.000052 | 0.496  | 14.73   | 0.0330 | 0   |
| 0.432 | 17.19    | 0.0480 | 0.658  | -9.42     | 173.5 | 21.74   | 0.00255 | 0,000050 | 0.571  | 15.54   | 0.0379 | 0   |
| 0.492 | 17.96    | 0.0546 | 0.729  | -8.45     | 197.6 | 22.71   | 0.00230 | 0.00049  | 3.646  | 16.17   | 0.0429 | ) 0 |
| 0,552 | 18.86    | 0.0613 | 0.765  | -7.31     | 221.7 | 21.85   | 0.00208 | 0.00048  | 3.721  | 17.01   | 0.0479 |     |
| 0.612 | 19.79    | 0.0680 | 0.803  | -6.14     | 245.8 | 25,02   | 0.00187 | 0.000047 | 0.796  | 17.85   | 0,0529 | , 0 |
| 0,687 | 20.84    | 0.0763 | 0.846  | -4.81     | 275.9 | 26.35   | 0.00181 | 0.000044 | 0.071  | 18.63   | 0,0579 | 1 0 |
| 0.762 | 21.92    | 0.0846 | 0.889  | -3.44     | 306.0 | 27.71   | 0.00144 | 0.000039 | 0.946  | 19.32   | 0.0629 | 1 0 |
| 0.837 | 22.64    | 0.0929 | 0.927  | -2.28     | 336.2 | 28.68   | 0.00129 | 0.000032 | 1.021  | 20.01   | 0.0679 | ) ( |
| 0.912 | 23.63    | 0.1013 | 0.959  | -1.28     | 366.3 | Z9.88   | 0.00115 | 0.00025  | 1.096  | 20.70   | 0.0725 | , ( |
| 1.012 | 24.33    | 0.1124 | 0.987  | -0.40     | 406.4 | 30.76   | 0.00067 | 0.000015 | 1.196  | 21.52   | 0,0795 | . 0 |
| 1.112 | 24.60    | 0.1235 | 0.998  | -0.06     | 446.6 | 31.10   | 0.00044 | 0.000007 | 1.296  | 22.23   | 0.0862 | 2 O |
| 1.212 | 24.65    | 0.1346 | 1.000  | 0.00      | 486.8 | 31.16   | 0.00000 | 0.00000  | 1.396  | 22.76   | 0.0926 | . 0 |
| 1.312 | 24.64    | 0.1457 | 1.000  | 0.00      | 526.9 | 31.16   | 0.00000 | 0.000000 | 1, 521 | 23.13   | 0.1011 | . 0 |
|       |          |        |        |           |       |         |         |          |        |         |        |     |

| RUNI    | 1013/1-2 | X=34.  |         | •         |                                         |          |           |
|---------|----------|--------|---------|-----------|-----------------------------------------|----------|-----------|
|         | 22 21    |        | 01 = 0  | .41.89    | BETA- 2.18                              | 5 R D 2  | = 2855.   |
| CE / 7- | 0.0007   |        | 02 . 0  | 2412      | 8 = 2.60                                | з н      | • 1.737   |
| 2172-   | 0.0070   | ž      | 00 +15  | .0382     | P+ = 0.01                               | 58 G     | =15.227   |
| 5 2     | -0.1416  |        | 000 - 1 | . 50 27   | VO+ = 0.07                              | 25       |           |
|         | -0.3426  | -06    | 0~7 • 0 |           |                                         | .,       |           |
|         |          |        |         |           |                                         |          |           |
| ¥       | U        | Y/0C   | U/UI    | (0-01)/0+ | Y+ U+                                   | TAU      | T AUL AR  |
| 0.016   | 2.90     | 0.0009 | 0.124   | -31.44    | 4.5 4.46                                | 0.00108  | 0.000722  |
| 0 017   | 3.58     | 0.0011 | 0.153   | - 30 . 39 | 5.5 5.51                                | 0.00116  | 0,000690  |
| 0 020   | 4 18     | 0.0013 | 0.179   | -29.46    | 6.5 6.44                                | 0.00122  | 0.000658  |
| A 074   | 4.75     | 0.0016 | 0.204   | -28.58    | 7.8 7.32                                | 0.00128  | 0.000577  |
| 0.030   | 5.83     | 0.0020 | 0.250   | -26.92    | 9.8 8.98                                | 0.00140  | 0.000465  |
|         |          |        |         |           |                                         |          | 0.0003.74 |
| 0.036   | 6.61     | 0.0024 | 0.283   | -25.72    | 11.7 10.10                              | 0.00144  | 0.000378  |
| 0.044   | 7.12     | 0.0029 | 0.305   | -24.93    | 14.4 10.4/                              | 0.00196  | 0.000274  |
| 0.056   | 8.11     | 0.0037 | 0.348   | -23.40    | 18.3 12.90                              | 0.00165  | 0.000202  |
| 0.071   | 8.75     | 0.0047 | 0.375   | -22.42    | 23.3 13.40                              | 0.00178  | 0.000143  |
| 0.096   | 9.59     | 0.0064 | 0.412   | -21.12    | 31.5 14.78                              | 0.00192  | 0.000102  |
| 0.126   | 10.09    | 0.0084 | 0.433   | -20.36    | 41.4 15.54                              | 0,00203  | 0.000074  |
| 0.156   | 10.69    | 0.0103 | 0.459   | -19.44    | 51.3 16.46                              | 0.00215  | 0.000062  |
| 0.196   | 11.41    | 0.0130 | 0.489   | -18.33    | 64.5 17.57                              | 0.00229  | 0.000054  |
| 0.746   | 11.93    | 0.0163 | 0.512   | - 17.52   | 81.0 18.38                              | 0.00240  | 0.000047  |
| 0.296   | 12.55    | 0.0197 | 0.539   | -16.57    | 97.5 19.33                              | 0.00252  | 0.000043  |
| A 344   | 13 34    | 0 0230 | 0.568   | -15-51    | 114-0 20-39                             | 0.00263  | 0.00041   |
| 1 204   | 11 47    | 0.0763 | 0.584   | -14.93    | 130.5 20.97                             | 0.00266  | 0.000040  |
| 5 404   | 14 71    | 0.0110 | 0.632   | -13.71    | 163.4 22.68                             | 0.00274  | 0.000038  |
| 0.440   | 18 84    | 0 0379 | 0.666   | -11.97    | 1 88.2 23.92                            | 0.00275  | 0.000038  |
| 3.646   | 16.17    | 0.0429 | 0.694   | -11.00    | 212.9 24.90                             | 0.00266  | 0.000039  |
|         |          |        | 0 710   | -0.71     | 237 6 76.10                             | 0.00758  | 0.000038  |
| 2.721   | 17.01    | 0.0479 | 0.150   | - 4 1     | 362.6 27.65                             | 0.00246  | 0.000031  |
| 0.795   | 11.65    | 0.0529 | 0.700   | -7 31     | 207.1 29.65                             | 0.00228  | 0.00036   |
| 0.071   | 18.05    | 0,0979 | 0.000   |           | 311 8 29.74                             | 0-00204  | 0.000034  |
| 0.990   | 19.32    | 0.0029 | 0.050   | -5 08     | 334 5 30.82                             | 0.00179  | 0.003032  |
| 1.021   | 20.01    | 0.0019 | 0.034   | - 1.00    | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |          |           |
| 1.096   | 20.70    | 0.0729 | 0.889   | - 4.02    | 361.3 31.87                             | 0.00157  | 0.000030  |
| 1.196   | 21.52    | 0.0795 | 0.923   | -2.75     | 394.3 33.14                             | 0.00131  | 0.000025  |
| 1.296   | 22.23    | 0.0862 | 0,954   | -1.66     | 427.2 34.24                             | 0.00110  | 0.000020  |
| 1.396   | 22.76    | 0.0928 | 0.976   | -0.85     | 460.2 35.05                             | 5 0.0088 | 0.00014   |
| 1. 521  | 23.13    | 0.1011 | 0.992   | -0.28     | 501.4 35.62                             | 0.00057  | 0.000008  |
|         |          |        | 1 000   | -0.02     | 542.4 35-81                             | 0.00029  | 0.000003  |
| 1.040   | 23.30    | 0.1094 | 1.000   | 0.01      | 597.1 35.9                              | 0.00000  | -0.000002 |
| 1.796   | 23.32    | 0.1194 | 1.000   | 0.00      | 414 8 15.90                             | 0.00000  | 0.000000  |
| 1.871   | 23.31    | 0.1244 | 1.000   | 0.00      | 01010 3317                              |          |           |

| RUN: 1          | 101371-2                  | X=46           | . I-               | o.                                   |                        |                                          |                      |                               | RUN:                        | 101371-2                             | X+58          | . Z=                            | o.                                   |                        |                                  |                      |                               |
|-----------------|---------------------------|----------------|--------------------|--------------------------------------|------------------------|------------------------------------------|----------------------|-------------------------------|-----------------------------|--------------------------------------|---------------|---------------------------------|--------------------------------------|------------------------|----------------------------------|----------------------|-------------------------------|
| UT<br>CF/2<br>F | 22.36<br>0.0007<br>0.0020 | 1<br>2<br>- 06 | 01<br>02<br>0C - 2 | 0.5480<br>0.3157<br>0.6197<br>1.9414 | 8ETA<br>8<br>P+<br>V0+ | = 2.361<br>= 2.860<br>= 0.014<br>= 0.076 | РО2<br>Н<br>3 G<br>D | = 3585.<br>= 1.736<br>=15.949 | UI =<br>CF/2=<br>F =<br>K = | 21.53<br>0.0006<br>0.0020<br>-0.222E | 6<br>2<br>-06 | 01 =<br>02 =<br>0C = 2<br>099 = | 0.6647<br>0.3860<br>5.8893<br>2.3763 | BETA<br>8<br>9+<br>V0+ | 2.448<br>3.064<br>0.013<br>0.078 | PD2<br>H<br>1 G<br>7 | • 4222.<br>• 1.722<br>•16.329 |
|                 |                           |                | • • •              |                                      |                        |                                          |                      |                               |                             |                                      |               |                                 |                                      |                        |                                  |                      |                               |
| ۲               | U                         | ¥/0C           | 0701               | 10-01370                             | <b>ŧ γ</b> +           | U+                                       | TAU                  | TAULAH                        | Y                           | U                                    | ¥/0C          | U/U I                           | (U-UI}/U*                            | ٧+                     | IJ+                              | TAU                  | TAULAN                        |
| 0.014           | 2 . 52                    | 0.0007         | 0.113              | -33.38                               | 4.2                    | 4.24                                     | 0.00098              | 0.000668                      | 0.020                       | 2.94                                 | 0.0008        | 0.137                           | -33.63                               | 5.6                    | 5.32                             | 0.00098              | 0.000579                      |
| 0.018           | 3.24                      | 0.0009         | 0.145              | -32.17                               | 5.4                    | 5.45                                     | 0.00106              | 0.000633                      | 0.024                       | 3.60                                 | 0.009         | 0.167                           | -32.44                               | 6.7                    | 6.51                             | 0.00106              | 0.000543                      |
| 0.022           | 3.82                      | 0.0011         | 0.171              | -31.20                               | 6.6                    | 6.42                                     | 0.00112              | 0.000597                      | 3.028                       | 4.10                                 | 0.0011        | 0.190                           | -31.54                               | 7,9                    | 7.41                             | 0.00111              | 0.000508                      |
| 3.026           | 4.45                      | 0.0013         | 0.199              | -30.14                               | 7.6                    | 7.49                                     | 0.00119              | 0.000525                      | 0.033                       | 4.79                                 | 0.0013        | 0.223                           | -30.28                               | 9.3                    | 8.67                             | 0.00119              | 0.000458                      |
| 0.031           | 5.27                      | 0.0015         | 0.236              | -28.75                               | 9.4                    | 8.87                                     | 0.00128              | 0.000441                      | 3.041                       | 5.63                                 | 0.0016        | 0.262                           | -28.76                               | 11.5                   | 10.19                            | 0.00128              | 0.000344                      |
| 0.038           | 5.92                      | 0.0018         | 0.265              | +27.67                               | 11.5                   | 9.96                                     | 0.00135              | 0.000349                      | 0.051                       | 6.22                                 | 0.0020        | 0.289                           | - 27.69                              | 14.3                   | 11.26                            | 0.00136              | 0.003254                      |
| 0.048           | 6.67                      | 0.0023         | 0.298              | -26.40                               | 14.5                   | 11.22                                    | 0.00145              | 0.000253                      | 0.066                       | 7.04                                 | 0.0025        | 0.327                           | -26.21                               | 18.5                   | 12.74                            | 0.00147              | 0.000171                      |
| 0.060           | 7.17                      | 0.0029         | 0.321              | -25.56                               | 18.1                   | 12.06                                    | 0.00152              | 0.000185                      | 0.081                       | 7.35                                 | 0.0031        | 0.341                           | - 25.66                              | 22.7                   | 13.29                            | 0.00153              | 0.000127                      |
| 0.075           | 7.86                      | 0.0036         | 0.352              | -24.39                               | 22.6                   | 13.23                                    | 0.00162              | 0.000137                      | 0.101                       | 8.05                                 | 0.0039        | 0.374                           | -24.39                               | 28.4                   | 14.56                            | 0.00163              | 0.00099                       |
| 0.095           | 8.55                      | 0.0046         | 0.382              | -23.24                               | 28.7                   | 14.39                                    | 0.00172              | 0.000103                      | 0.131                       | 8.50                                 | 0.0051        | 0.395                           | -23.57                               | 36.8                   | 15.38                            | 0.00173              | 0.000074                      |
|                 | A 15                      |                | A 400              | - 72 23                              | 17.7                   | 15.40                                    | 0.00164              | 0.00076                       | 0.166                       | 9.01                                 | 0.0064        | 0.418                           | -22.66                               | 46.6                   | 16.29                            | 0.00183              | 0.000059                      |
| 0.145           | 9113                      | 0.0001         | 0.430              | -21 44                               | 49.8                   | 14.18                                    | 0.00195              | 0.00058                       | 1.226                       | 9.82                                 | 0.0087        | 0.456                           | -21.16                               | 63.5                   | 17.76                            | 0.00201              | 0.000044                      |
| 0.105           | 10 27                     | 0.0000         | 0.459              | -20.34                               | 61.9                   | 17.29                                    | 0.00709              | 0.000046                      | 0.286                       | 10.36                                | 0.0110        | 0.481                           | -20.21                               | 80.3                   | 18.74                            | 0.00215              | 0.000037                      |
| 0.255           | 10.80                     | 0.0174         | 0.483              | -19.44                               | 76.9                   | 18.18                                    | 0.00772              | 0.000041                      | 0-361                       | 10.84                                | 0.0139        | 0.503                           | -19,34                               | 101.4                  | 19.60                            | 0.00230              | 0.000031                      |
| 0.305           | 11.34                     | 0.0148         | 0.507              | -18.55                               | 92.0                   | 19.08                                    | 0.00234              | 0.00039                       | 0.436                       | 11.46                                | 0.0168        | 0.532                           | -18.23                               | 122.4                  | 20.72                            | 0.00244              | 0.00029                       |
|                 |                           |                |                    | -17 .6                               | 114 7                  | 10.74                                    | 0 00346              | 0.000035                      |                             | 11 00                                | 0.0197        | 0.553                           | +17.47                               | 143.5                  | 21.53                            | 0.00255              | 0.00029                       |
| 0.300           | 11 64                     | 0.0184         | 0.520              | -16 48                               | 137.3                  | 21.14                                    | 0.00761              | 0.000034                      | 0.611                       | 12.42                                | 0.0236        | 0.577                           | -16.49                               | 171.6                  | 22.46                            | 0.00265              | 0.000026                      |
| 0.477           | 17 46                     | 0.0221         | 3 407              | -14 00                               | 167.5                  | 22.66                                    | 0.00276              | 0.000033                      | 5.711                       | 13.11                                | 0.0275        | 0.609                           | -15.25                               | 159.6                  | 23. 10                           | 0.00276              | 0.000027                      |
| 0.000           | 14 07                     | 0.0207         | 0.470              | -11.05                               | 197.6                  | 23.67                                    | 0.00277              | 0.000032                      | 0.811                       | 13.45                                | 0.0313        | 0.643                           | -13.90                               | 227.7                  | 25.05                            | 0.00284              | 0.000027                      |
| 0.755           | 15.00                     | 0.0366         | 0.671              | -12.38                               | 227.8                  | 25.25                                    | 0.00283              | 0.000030                      | 0.911                       | 14.38                                | 0.0352        | 0.668                           | -17,94                               | 255.8                  | 26.01                            | 0.00283              | 0.00026                       |
|                 |                           |                |                    |                                      |                        |                                          |                      | 0.00010                       |                             | 15 10                                |               | 0 701                           | -11 44                               | 290.9                  | 27.31                            | 0.00281              | 0.000025                      |
| 0.855           | 15.71                     | 0.0415         | 0.703              | -11.18                               | 258.0                  | 17 76                                    | 0.00218              | 0.000030                      | 1.038                       | 15.10                                | 0.0448        | 0.701                           | -10 23                               | 326.0                  | 28.72                            | 0.00277              | 0.000024                      |
| 0.955           | 10.99                     | 0.0463         | 0.750              | -9.01                                | 118 4                  | 78.83                                    | 0.00270              | 0.000028                      | 1.101                       | 14 44                                | 0.0506        | 0.774                           | -8.81                                | 368.1                  | 33.13                            | 0.00260              | 0.000024                      |
| 1.055           | 11.13                     | 0.0512         | 0.700              | -7.09                                | 384 1                  | 20.03                                    | 0.00232              | 0.000028                      | 1 441                       | 17 55                                | 0.0566        | 0.815                           | -7.20                                | 410.2                  | 31.75                            | 0.00239              | 0.000023                      |
| 1.305           | 18.97                     | 0.0633         | 0.848              | -5.70                                | 393.8                  | 31.92                                    | 0.00198              | 0.000026                      | 1.611                       | 18.34                                | 0.0622        | 0.852                           | -5.77                                | 452.3                  | 33.18                            | 0.00207              | 0.000022                      |
|                 |                           |                |                    |                                      |                        |                                          |                      |                               |                             |                                      |               |                                 | - ( 16                               |                        | 14 45                            | A AA174              | 0.000.20                      |
| 1.455           | 19.95                     | 0.0706         | 0.892              | -4.05                                | 439.1                  | 33.70                                    | 0.00157              | 0.000023                      | 1.761                       | 19.16                                | 0.0660        | 0.890                           | -3.00                                | 614 4                  | 36 85                            | 0.00136              | 0.000017                      |
| 1.605           | 20.88                     | 0.0778         | 0.934              | -2.49                                | 404.J                  | 35+14                                    | 0.00123              | 0.000013                      | 1.911                       | 14.02                                | 0.0796        | 0.921                           | -1.87                                | 578.7                  | 37.08                            | 0.00106              | 0.000014                      |
| 1.755           | 21.58                     | 0.0851         | 0.965              | -1.32                                | 727.0                  | 30,31                                    | 0.00090              | 0.000009                      | 2.061                       | 20.90                                | 0.0170        | 0.071                           | -1.05                                | 620.B                  | 17.90                            | 0.00074              | 0.000011                      |
| 1.905           | 22.09                     | 0.0924         | 0.988              | -0.45                                | 418 2                  | 37 40                                    | 0.00005              | 0.000004                      | 2.211                       | 20.45                                | 0.0831        | 0.004                           | -0.25                                | 677.0                  | 38.70                            | 0.00044              | 0.000006                      |
| Z.105           | 22.34                     | 0.1021         | 0.499              | -0.03                                | 027.2                  | 31.00                                    | 0.00028              | 0.000004                      | 2.411                       | 21.40                                | 0.0731        |                                 | 5.27                                 |                        |                                  |                      |                               |
| 2.305           | 22.37                     | 0.1118         | 1.001              | 0.03                                 | 695.5                  | 37.65                                    | 0.00000              | -0.000000                     | 2.611                       | 21.54                                | 0.1009        | 1.000                           | 0.01                                 | 733.1                  | 38.96                            | 0.00018              | 0.000003                      |
| 2.505           | 22.36                     | 0.1215         | 1.000              | 0.00                                 | 755.9                  | 37.62                                    | 0.00000              | 0.000000                      | 2.811                       | 21.57                                | 0.1086        | 1.002                           | 0.07                                 | 789.3                  | 39.02                            | 0.00000              | -0.000000                     |
|                 |                           |                |                    |                                      |                        |                                          |                      |                               | 1.111                       | 21.53                                | 0.1202        | 1.000                           | 0.00                                 | 873.5                  | 38.95                            | 0.00000              | 0.000000                      |

| RUN: 1 | 01371- <i>2</i> | X= 70   | . Z=   | ٥.        |       |         |          |          | RUN: 1 | 01371-2 | X=82.  | . z= (  |           |        |         |          |           |
|--------|-----------------|---------|--------|-----------|-------|---------|----------|----------|--------|---------|--------|---------|-----------|--------|---------|----------|-----------|
| UI =   | 20.97           |         | D1 +   | 0.7626    | 8E TA | - 2.524 | RDZ      | - 4877.  |        |         |        |         |           |        |         |          |           |
| CF/2=  | 0.0006          | z       | 02 -   | 0.4580    | B     | • 3.205 | н        | = L.709  | 01 -   | 20.62   | -      | 01 = 0  |           |        | - 2.67  | R D Z    | - 2218.   |
| F +    | 0.0020          | 0       | DC +3  | 1.3255    | P+    | + 0.01Z | L G      | =16.604  | CF/2*  | 0.0005  | 8      | 02 -    | 0.9325    | 6      | = 3.45/ | H        | = 1.558   |
| К =    | -0.189F         | -06     | 099 =  | 2.8244    | V0+   | = 0.080 | 1        |          | F *    | 0.0020  | z      | DC = 3  | 7.1748    | P+     | * 0.011 | 7 6      | -16.855   |
|        | ••••            |         |        |           |       |         | •        |          | κ =    | ~0,165E | - 06   | D99 = 3 | 3.2985    | ¥0+    | • 0.083 | 6        |           |
| ۲      | U               | ¥70C    | 0701   | 10-01170  | • •   | U+      | TAU      | TAULAM   | Y      | U       | Y/DC   | 0701    | (U-U11/U  | • ••   | U+      | T AU     | TAULAN    |
| 0.021  | 2.97            | 0.0007  | 0.142  | - 34 . 36 | 5.6   | 5.67    | 0.00094  | 0.000555 |        |         |        |         |           |        |         |          |           |
| D.025  | 3.48            | 0.0008  | 0.166  | -33.39    | 6.7   | 6.63    | 0.00100  | 0.000522 | 0.021  | 2.80    | 0.0006 | 0.136   | -35.74    | 5.3    | 5.63    | 0.00089  | 0.000563  |
| 0.029  | 1.94            | 0.0009  | 0.168  | - 32 . 51 | 7.7   | 7.52    | 0.00105  | 0.000490 | 0.025  | 3.41    | 6.0007 | 0.165   | - 34. 54  | 6.3    | 6.83    | 0.00096  | 0.000529  |
| 0.036  | 4.71            | 0.0011  | 0.225  | -31.04    | 9.6   | 8.99    | 0.00114  | 0.000403 | 0.030  | 4.08    | 0.0008 | 0.198   | -33.18    | 7.6    | 8.18    | 0.00103  | 0.000486  |
| 0 044  | 5 12            | 0.0014  | 0.253  | -79.88    | 11.7  | 10.15   | 0 00121  | 0.000325 | 0.036  | 4.49    | 0.0010 | 0.218   | -32.37    | 9.1    | 9.00    | 0.00108  | 0.000413  |
| 0.044  |                 | 010014  |        |           |       |         |          |          | 0.048  | 5.59    | 0.0013 | 0.271   | - 30 - 14 | 12.2   | 11.22   | 0.00121  | 0.000284  |
| 0.054  | 6.11            | 0.0017  | 0.291  | -28.37    | 14.4  | 11.66   | 0.00131  | 0.000249 |        |         |        |         |           |        |         |          |           |
| 0.074  | 6.92            | 0.0024  | 0.330  | -26.82    | 19.7  | 13.21   | 0.00142  | 0.000156 | 3.068  | 6.57    | 0.0018 | 0.319   | -28.18    | 17.2   | 13.19   | 0.00134  | 0.000176  |
| 0.094  | 7.53            | 0.0030  | 0.359  | -25.56    | 25.0  | 14.37   | 0.00151  | 0.000113 | 0.093  | 7.18    | 0.0025 | 0.348   | -26.95    | 23.5   | 14.41   | 0.00144  | 0.000118  |
| 1,119  | 7.98            | 0.0038  | 0.381  | - 76.80   | 31.7  | 15.23   | 0 00159  | 0.000083 | 3.128  | 7.84    | 0.0034 | 0.380   | -25.64    | 32.4   | 15.72   | 0.00155  | 0.000076  |
| 5 169  | 0 55            | 0.0054  | A 408  | -23 70    | 45.0  | 16 11   | 0 00173  | 0.000054 | 0.203  | 8,75    | 0.0055 | 0.424   | -23.82    | 51.4   | 17.55   | 0.00174  | 0.000046  |
|        |                 |         | 5.110  |           |       |         | 0100115  |          | 0.303  | 9.59    | C.0082 | 0.465   | -22.13    | 76.7   | 19.23   | 0.00193  | 0.000033  |
| 0.234  | 9.32            | 0.0075  | 0.444  | -22.24    | 62.3  | 17.79   | 0.00189  | 0.000040 |        |         |        |         | -         |        |         |          |           |
| 0.309  | 10.19           | 0.0099  | 0.486  | - 20. 58  | 82.2  | 19.44   | 0.00208  | 0.000034 | 0.403  | 10.03   | 0.0108 | 0.486   | ~21.25    | 102.0  | 20.12   | 0.00209  | 0.000027  |
| 0.409  | 10.29           | 0.0131  | 0.490  | -20.40    | 108.6 | 19.63   | 0.00219  | 0.000028 | 0.503  | 10.63   | 0.0135 | 0.516   | -20.04    | 127.3  | 21.33   | 0.00226  | 0.000024  |
| 0.509  | 11.07           | 0.0167  | 0.528  | - 18, 91  | 135.4 | 21.12   | 0.00236  | 0.000025 | 0.603  | 11.21   | 0.0162 | 0.544   | -18.88    | 152.6  | 22.48   | 0.00237  | 0.000022  |
| 0.409  | 11 80           | 0 0194  | 1 563  | -17.50    | 162.0 | 22.53   | 0 00254  | 0.000024 | 0.703  | 11.60   | 0.0189 | 0.563   | -18.09    | 178.0  | 23.27   | 0.00244  | 0.000020  |
| 0.007  |                 | 0.01.04 |        |           |       |         | 0.00234  | 0.00011  | 0.803  | 11.95   | 0.0216 | 0.580   | -17.39    | 203.3  | 23.97   | 0.00252  | 0.000021  |
| 0.709  | 12.14           | 0.0226  | 0.579  | -16.86    | 188.6 | 23.16   | 0.00263  | 0.000025 |        |         |        |         |           |        |         |          |           |
| 0.809  | 12.61           | 0.0258  | 0.601  | -15.97    | 215.2 | 24.06   | 0.00271  | 0.000023 | 0.928  | 12.54   | 0.0250 | 0.608   | -16.21    | 234.9  | 25.16   | 0.00263  | 0.000019  |
| 0.934  | 13.72           | 0.0298  | 0.630  | -14.80    | 248.5 | 25.23   | 0.00277  | 0.000023 | 1.053  | 12.93   | 0.0283 | 0.627   | -15.43    | 266.5  | 25.93   | 0.00265  | 0.000020  |
| 1.059  | 14.07           | 0.0336  | 0.671  | -13.17    | 281.8 | 26.86   | 0.00285  | 0.000022 | 1.203  | 13.84   | 0.0324 | 0.671   | -13.60    | 304.5  | 27.77   | 0.00271  | 0.000020  |
| 1.209  | 14.68           | 0.0386  | 0.700  | -12.00    | 321.7 | 28.03   | 0.00282  | 0-000022 | 1.353  | 14.17   | 0.0364 | D.687   | -12.95    | 342.5  | 28.42   | 0.00263  | 0.000019  |
| 1.107  | 14.00           | 0.0300  | 0.700  | -12.00    | 32111 | 20.03   | 0.002.02 | 0.000022 | 1.503  | 14.91   | 0.0404 | 0.723   | -11.45    | 380.5  | 29.91   | 0.00268  | 0.000019  |
| 1.359  | 15.45           | 0.0434  | 0.736  | -10.55    | 361.6 | 29.48   | 0.00277  | 0.000021 |        |         |        |         |           |        |         |          |           |
| 1.509  | 16.00           | 0.0482  | 0.763  | -9.48     | 401.5 | 30.55   | 0.00259  | 0.000020 | 1.703  | 15.74   | 0.0458 | 0.763   | -9.80     | 431.1  | 31.57   | 0.00299  | 0.000018  |
| 1.659  | 16.78           | 0.0530  | 0.800  | -8.00     | 441.4 | 32.03   | 0.00246  | 0.000020 | 1,903  | 16.51   | 0.0512 | 0.801   | -8.24     | 481.7  | 33.12   | 0.00236  | 0.000018  |
| 1.809  | 17.44           | 0.0577  | 0.832  | -6.74     | 481.3 | 33.29   | 0.00223  | 0.000019 | 2.103  | 17.19   | 0.0566 | 0.834   | -6.88     | 537.3  | 34.49   | 0.00207  | 0.000016  |
| 2.009  | 18.31           | 0.0641  | D. 873 | -5.09     | 534.5 | 34.94   | 0.00187  | 0.000018 | 2.303  | 18.05   | 0.0620 | 0.876   | -5.15     | 583.0  | 36.22   | 0,00178  | 0.000015  |
|        |                 |         |        |           |       |         |          |          | 2.503  | 18.57   | 0.0673 | 0.900   | -4.12     | 633.6  | 37,24   | 0.00124  | 0.000013  |
| 2.209  | 19.05           | 0.0705  | 0.909  | -3.66     | 587.7 | 36.37   | 0.00143  | 0.000015 |        |         |        |         | 3 64      | 4.84 3 | 38.47   |          | 0.000011  |
| Z.409  | 19.86           | 0.0769  | 0.947  | -2.12     | 640.9 | 37.91   | 0.00109  | 0.000012 | 2.703  | 19.14   | 0.0127 | 0.928   | -2.90     | 740 2  | 10.07   | 0.00084  | 0.0000011 |
| 2.709  | 20.64           | 0.0865  | 0.984  | -0.63     | 720.7 | 39.39   | 0.00058  | 0.000008 | 3.003  | 19.98   | 0.0000 | 0.969   | -1.24     | 100.2  | 40.07   | 0.00045  | 0.000008  |
| 3.009  | 20.96           | 0.0961  | 0.999  | -0.02     | 800.6 | 40.00   | 0.00020  | 0.000003 | 3,303  | 20.42   | 0.0889 | 0.990   | -0.40     | 0 30.1 | -0.97   | 0.00013  | 0.000005  |
| 3.309  | 21.00           | 0.1056  | 1.001  | 0.05      | 880.4 | 40.08   | 0.00000  | 0.000000 | 3.603  | 20.58   | 0.0969 | 0,998   | -0.08     | 912.0  | 41.29   | -0.00005 | 0.000002  |
| -      |                 |         |        |           |       |         |          |          | 3.903  | 20.62   | 0.1050 | 1,000   | -0.01     | 488.0  | 41.36   | -0.00009 | 0.000000  |
| 3.609  | 20.97           | 0.1152  | 1.000  | 0.00      | 960.2 | 40.03   | 0.00000  | 0.000000 | 4.403  | 20.62   | 0.1184 | 1.000   | 0.00      | 1114.5 | 41.37   | 0.00000  | 0.00000   |

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| RUN: 1                      | 01371-2                              | 2 X=90          | . z•                           | o.                                   |                        |                                            |                                       | RUN: 1                | 12871-1                              | L X= 2.          | 7-                            | D.                                   |                        |                                            |                                      |
|-----------------------------|--------------------------------------|-----------------|--------------------------------|--------------------------------------|------------------------|--------------------------------------------|---------------------------------------|-----------------------|--------------------------------------|------------------|-------------------------------|--------------------------------------|------------------------|--------------------------------------------|--------------------------------------|
| UT =<br>CF/2=<br>F =<br>K = | 20.43<br>0.0005<br>0.0020<br>-0.1591 | 7<br>)1<br>- 06 | D1 =<br>02 =<br>0C =4<br>D99 = | C.9767<br>0.5798<br>1.0050<br>3.6141 | BET#<br>B<br>P+<br>V0+ | - 2.840<br>= 3.543<br>= C.0118<br>= 0.0844 | RD2 = 6015.<br>H = 1.684<br>G =17.059 | UI<br>CF/2-<br>F<br>K | 29.49<br>0.0019<br>0.0039<br>-0.4458 | 94<br>99<br>E-06 | D1 =<br>D2 =<br>DC =<br>D99 = | 0.0717<br>0.0425<br>1.6282<br>0.3362 | BETA<br>8<br>P+<br>V0+ | = 0.248<br>= 2.057<br>= 0.0052<br>= 0.0906 | ADZ = 641.<br>H = 1.687<br>G = 9.247 |
| ۲                           | ບ                                    | Y/DC            | U/UI                           | 10-011/0                             | )* Y+                  | U+                                         | TAULAM                                | ۲                     | υ                                    | ¥/DC             | 9701                          | (0-01)/0                             | • ¥•                   | U+                                         | TAULAN                               |
| 3.022                       | 3.03                                 | 0.0005          | 0.148                          | - 35.76                              | 5.4                    | 6.23                                       | 0.000559                              | 0.004                 | 3.52                                 | 0.0026           | 0.119                         | -20.00                               | 2.9                    | 2.71                                       | 0:001486                             |
| 0.027                       | 3.66                                 | 0.0007          | 0.179                          | -34.46                               | 6.6                    | 7.53                                       | 0.000516                              | 0.005                 | 3.80                                 | 0.0033           | 0.129                         | -19.78                               | 3.5                    | 2.92                                       | 0.001420                             |
| 3.034                       | 4.34                                 | 0.0008          | 0.212                          | -33.07                               | 8.4                    | 8.92                                       | 0.000455                              | 0.006                 | 4.25                                 | 0.0039           | 0.144                         | -19.43                               | 4.2                    | 3.27                                       | 0.001355                             |
| 0.044                       | 5.20                                 | 0.0011          | 0.255                          | -31.29                               | 10.8                   | 10.69                                      | 0.000314                              | 0.007                 | 4.86                                 | 0.0045           | 0.165                         | -18.96                               | 4.8                    | 3.74                                       | 0.001404                             |
| 0.057                       | 5.97                                 | 0.0014          | 0.292                          | -29.71                               | 14.0                   | 12.28                                      | 0.000222                              | 0.008                 | 5.50                                 | 0.0051           | 0.187                         | -18.47                               | 5.5                    | 4.24                                       | 0.001509                             |
| 0.072                       | 6.71                                 | 0.0018          | 0.328                          | -28.20                               | 17.7                   | 13.79                                      | 0.000162                              | 0.009                 | 6.31                                 | 0.0057           | 0.214                         | -17.85                               | 6.2                    | 4.86                                       | 0.001571                             |
| 0.092                       | 7.04                                 | 0.0022          | 0.344                          | -27.52                               | 22.7                   | 14.46                                      | 0.000111                              | 0.011                 | 7.65                                 | 0.0069           | 0.260                         | -16.81                               | 7.5                    | 5.89                                       | 0.001437                             |
| 0.127                       | 1.11                                 | 0.0031          | 0.378                          | -26.13                               | 31.3                   | 15.85                                      | 0.000072                              | 0.013                 | 8.87                                 | 0.0082           | 0.301                         | -15.87                               | 8.8                    | 6.83                                       | 0.001269                             |
| 0.16/                       | 8.27                                 | 0.0041          | 0.405                          | -24.98                               | 41-2                   | 17.00                                      | 0.000053                              | 0.015                 | 10.11                                | 0.0094           | 0.343                         | -14.92                               | 10.2                   | 7.79                                       | 0.001075                             |
| 0.242                       | 8.10                                 | 0.0094          | 0.429                          | -23.99                               | 59.7                   | 18.00                                      | 0.000038                              | 5.017                 | 10.95                                | 0.0106           | 0.371                         | -14.27                               | 11.5                   | 0.43                                       | 0.000934                             |
| 3.317                       | 9.49                                 | 0.0077          | 0.464                          | -22.49                               | 78.3                   | 19.50                                      | 0.000029                              | 0.020                 | 12.17                                | 0.0125           | 0.413                         | -13.33                               | 13.5                   | 9.37                                       | 0.000750                             |
| 3.417                       | 9.98                                 | 0.0102          | 0.489                          | -21.47                               | 103.0                  | 20.52                                      | 0.000024                              | 0.023                 | 12.90                                | 0.0143           | 0.437                         | -12.77                               | 15.5                   | 9.93                                       | 0.000613                             |
| 0.517                       | 10.38                                | 0.0126          | 0.508                          | -20.65                               | 127.7                  | 21.34                                      | 0.000021                              | 0.026                 | 13.70                                | 0.0162           | 0.465                         | -12.15                               | 17.5                   | 10.55                                      | 0.000529                             |
| 0.617                       | 10.69                                | 0.0150          | 0.523                          | -20.01                               | 152.4                  | 21.97                                      | 0.00020                               | 0.030                 | 14.58                                | 0.0186           | 0.494                         | -11.48                               | 20.1                   | 11.22                                      | 0.000436                             |
| 0.717                       | 11.26                                | 0.0175          | 0.551                          | -18.85                               | 177.1                  | 23.13                                      | 0.00019                               | 3.034                 | 15.28                                | 0.0211           | 0.518                         | -10,94                               | 22.8                   | 11.76                                      | 0.000383                             |
| 0.817                       | 11.61                                | 0.0199          | 0.568                          | -18.13                               | 201.8                  | 23.65                                      | 0.000019                              | 0.040                 | 16.24                                | 0.0248           | 0.551                         | -10,20                               | 26.8                   | 12.50                                      | 0.000314                             |
| 0.942                       | 12.13                                | 0.0230          | 0.594                          | -17.05                               | 232.7                  | 24.94                                      | 0.000019                              | 0.048                 | 17.14                                | 0.0297           | 0.581                         | -9.50                                | 32.1                   | 13.20                                      | 0.000256                             |
| 1.067                       | 12.51                                | 0.0260          | 0.612                          | -16.28                               | 263.6                  | 25.70                                      | 0.00019                               | 0.058                 | 18.18                                | 0.0358           | 0.616                         | -8.71                                | 38.7                   | 14.00                                      | 0.000214                             |
| 1.217                       | 13.19                                | 0.0297          | 0.646                          | -14.07                               | 300.6                  | 27.12                                      | 0.000019                              | 0.069                 | 19.18                                | 0.0426           | 0.650                         | -7.93                                | 46.0                   | 14.77                                      | 0.000189                             |
| 1.367                       | 13.80                                | 0.0333          | 0.676                          | -13.62                               | 337.7                  | 28.37                                      | 0.00018                               | 0.081                 | 20.02                                | 0.0499           | 0.679                         | -7.29                                | 54.0                   | 15.41                                      | 0.000171                             |
| 1.517                       | 14.44                                | 0.0370          | 0.707                          | -12.30                               | 374.8                  | 29.68                                      | 0.000018                              | 0.093                 | 20.68                                | 0.0573           | 0.708                         | -6.63                                | 62.0                   | 16.(8                                      | 0.000157                             |
| 1.717                       | 15.03                                | 0.0419          | 0.736                          | -11,10                               | 424.2                  | 30.88                                      | 0.000017                              | 0.109                 | 22.02                                | 0.0671           | 0.747                         | -5.75                                | 72.6                   | 16.96                                      | 0.000143                             |
| 1.917                       | 15.74                                | 0.0467          | 0.770                          | -9.64                                | 473.6                  | 32.34                                      | 0.00016                               | 0.124                 | 22.92                                | 0.0763           | 0.777                         | -5.05                                | 82.6                   | 17.65                                      | 0.000130                             |
| 2.117                       | 16.53                                | 0.0516          | 0.809                          | -8.01                                | 523.0                  | 33.97                                      | 0.00016                               | 0.139                 | 23.76                                | 0.0856           | 0.806                         | -4.41                                | 92.5                   | 18.29                                      | 0.000118                             |
| 2.317                       | 17.03                                | 0.0565          | 0,834                          | -6.99                                | 572.4                  | 35.00                                      | 0.000016                              | 0.159                 | 24.78                                | 0.0978           | 0.840                         | -3.62                                | 105.8                  | 19.08                                      | 0.000102                             |
| 2.517                       | 17.73                                | 0.0614          | 0.868                          | -5.55                                | 621.9                  | 36.44                                      | 0.000014                              | 0.184                 | 25.86                                | 0.1132           | 0.877                         | - 2.79                               | 122.4                  | 19.91                                      | 0.00086                              |
| 2.817                       | 18.80                                | 0,0687          | 0.920                          | -3.36                                | 696.0                  | 38.63                                      | 0.000012                              | 0.209                 | 26.77                                | 0.1285           | 0.908                         | -2.09                                | 139.0                  | 20.61                                      | 0.000071                             |
| 3.117                       | 19.54                                | 0.0760          | 0.957                          | -1.81                                | 770.1                  | 40.17                                      | 0.00009                               | 0.234                 | 27.46                                | 0.1439           | 0.931                         | -1,56                                | 155.6                  | 21.14                                      | 0.000057                             |
| 3.417                       | 20.03                                | 0.0833          | 0.980                          | -0.63                                | 844.2                  | 41.16                                      | 0.000006                              | 0.259                 | 28.08                                | 0.1593           | 0.952                         | -1.08                                | 172.2                  | 21.62                                      | 0.000045                             |
| 3.717                       | 20.33                                | 0.0906          | 0.995                          | -0.21                                | 918.4                  | 41.78                                      | 0.000003                              | 0.294                 | 28.75                                | 0.1808           | 0.975                         | -0.51                                | 195.5                  | 22.14                                      | 0.000031                             |
| 3.917                       | 20.35                                | 0.0955          | 0.996                          | -0.15                                | 967.8                  | 41.83                                      | 0.003002                              | 0.329                 | 29.16                                | 0.2022           | 0.989                         | -0.25                                | 218.7                  | 22.45                                      | 0.000021                             |
| 4.417                       | 20.43                                | 0.1077          | 1.000                          | 0.00                                 | 1091.3                 | 41.98                                      | 0.000000                              | 0.379                 | 29.41                                | 0.2330           | 0.997                         | -0.06                                | 251.9                  | 22.64                                      | 0.000010                             |
|                             |                                      |                 |                                |                                      |                        |                                            |                                       | 0.434                 | 29.48                                | 0.2667           | 1.000                         | -0.01                                | 288.5                  | ZZ.70                                      | 0.000004                             |
|                             |                                      |                 |                                |                                      |                        |                                            |                                       | 0.509                 | 29.49                                | 0.3128           | 1.000                         | 0.01                                 | 338.3                  | 22.71                                      | -0.000003                            |
|                             |                                      |                 |                                |                                      |                        |                                            |                                       | D.584                 | 29.49                                | 0.3589           | 1.000                         | 0.00                                 | 388.1                  | 22.70                                      | 0.000000                             |

| RUN: 112871-1 X=10. Z= 0.                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                          | RUN: 112871-1 X=22. Z= 0.                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UI = 26.66 D1 = 0.1942<br>CF/2= 0.00071 D2 = 0.1050<br>F = 0.00360 DC = 7.2899<br>K = -D.844E-06 D99 = 0.6550                                                                                                                                                                                                                                                   | BETA= 3.148 RD2 = 1431.<br>B = 5.070 H = 1.850<br>P+ = 0.0446 G =17.245<br>V0+ = 0.1351                                                                                                                                                                                                                  | UI = 24.18 D1 = 0.3941<br>CF/2= 0.00056 D2 = 0.2061<br>F = 0.02322 DC = 16.6488<br>K = -0.469E-26 D99 = 1.2180                                                                                              | 8ETA* 4.077 RDZ = 2549.<br>8 = 5.745 H = 1.912<br>P+ = 0.0353 G =20.145<br>VC+ = 0.1360                                                                                                                                                                                                                        |
| Y U Y/DC U/UT {U-UT1/U*                                                                                                                                                                                                                                                                                                                                         | Y+ U+ TAU TAULAH                                                                                                                                                                                                                                                                                         | Y U YYDC U/UI (U-UI)/U+                                                                                                                                                                                     | Y+ U+ TAU TAULAM                                                                                                                                                                                                                                                                                               |
| 0.009 3.11 0.0012 0.117 -33.15<br>0.011 3.60 0.0015 0.135 -32.46<br>0.013 4.19 0.0018 0.157 -31.63<br>0.015 4.74 0.0021 0.178 -30.86<br>0.018 5.54 0.0025 0.208 -29.73                                                                                                                                                                                          | 3.3 4.38 0.00123 0.000843<br>4.0 5.07 0.00132 0.000805<br>4.7 5.90 0.00142 0.000767<br>5.4 6.67 0.00151 0.000737<br>6.5 7.80 0.00165 0.000685                                                                                                                                                            | 0.017 3.06 0.0010 0.127 -36.89<br>0.019 3.41 0.0011 0.141 -36.29<br>0.021 3.80 0.0013 0.157 -35.59<br>0.023 3.96 0.0014 0.164 -35.33<br>0.026 4.44 0.0016 0.186 -34.48                                      | 5.0 5.35 0.00106 0.000535<br>5.6 5.95 0.00112 0.000517<br>6.1 6.65 0.00118 0.000500<br>6.7 6.1 0.00122 0.000494<br>7.6 7.76 0.00130 0.000454                                                                                                                                                                   |
| 0.022         6.45         0.030         0.242         -28.45           0.026         7.44         0.036         0.279         -27.05           0.031         8.21         0.043         0.308         -25.98           0.038         8.93         0.0502         0.375         -24.96           0.048         9.91         0.0666         0.372         -23.58 | R.C         9.08         0.00180         0.000572           9.4         10.48         0.00197         0.000480           11.3         11.55         0.00210         0.000388           13.8         12.57         0.00223         0.000296           17.4         13.95         0.00240         0.000215 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                        | B.8         B.64         0.00138         0.000397           10.5         10.09         0.00152         0.000329           12.9         11.05         0.00163         0.000253           16.1         12.24         0.00177         0.000191           20.5         13.57         0.00193         0.000139      |
| 0.059 10.61 0.0081 0.398 -22.60<br>0.074 11.43 0.0102 0.429 -21.43<br>0.094 12.26 0.0129 0.460 -20.27<br>0.119 13.19 0.0163 0.495 -18.96<br>0.149 14.22 0.0204 0.533 -17.51                                                                                                                                                                                     | 21.4 14.93 0.00251 0.000172<br>26.9 16.10 0.00262 0.000140<br>34.1 17.28 0.00270 0.000115<br>43.2 18.57 0.00274 0.000101<br>54.1 20.02 0.00271 0.000092                                                                                                                                                  | 0.090 8.52 0.0054 0.353 -27.35<br>0.120 9.27 0.0072 0.383 -26.04<br>0.160 9.99 0.0096 0.413 -24.79<br>0.210 10.86 0.0126 0.443 -24.79<br>0.210 10.86 0.0126 0.443 -23.26<br>0.270 11.78 0.0162 0.487 -21.66 | 26.3         14.89         0.00211         0.000107           35.1         16.20         0.00230         0.000081           46.8         17.45         0.00248         0.000066           61.5         18.97         0.00288         0.000067           79.0         20.58         0.00284         0.000052    |
| 0.179 15.10 0.0246 0.566 -16.27<br>0.209 16.03 0.0287 0.601 -14.96<br>0.249 17.20 0.0342 0.645 -13.32<br>0.299 18.73 0.0410 0.703 -11.16<br>0.349 20.16 0.0479 0.756 -9.14                                                                                                                                                                                      | 65.0 21.25 0.00258 0.000089<br>75.9 22.57 0.00245 0.000086<br>90.4 24.21 0.00221 0.000084<br>108.6 26.37 0.00196 0.000081<br>126.8 28.39 0.00171 0.000077                                                                                                                                                | 0.330 12.73 0.0198 0.527 -20.00<br>0.390 13.44 0.0234 0.556 -18.75 1<br>0.450 14.36 0.0270 0.594 -17.15<br>0.510 15.24 0.0306 0.631 -15.61<br>0.585 16.47 0.0351 0.681 -13.47                               | 96.6         22.24         0.00294         0.000050           14.2         23.49         0.00290         0.000051           31.7         25.99         0.00286         0.000052           49.3         26.63         0.00274         0.000052           71.2         28.77         0.00259         0.000050    |
| 0.399 21.58 0.0547 0.810 -7.15<br>0.449 22.85 0.0616 0.857 -5.35<br>0.499 24.10 0.0685 0.904 -3.60<br>0.549 25.18 0.0753 0.945 -2.08<br>0.599 25.97 0.0822 0.974 -0.97                                                                                                                                                                                          | 144,9 30,38 0.00156 0.000073<br>163,1 32,18 0.00144 0.000066<br>181,3 33,93 0.00146 0.000054<br>199,4 33,45 0.00150 0.000062<br>217,6 36,56 0.00142 0.000031                                                                                                                                             | 0.660 17.69 0.0396 0.732 -11.33<br>0.735 18.78 0.942 0.777 -9.42<br>0.810 19.54 0.0487 0.808 -8.10<br>0.885 20.81 0.0532 0.861 -5.88<br>0.960 21.79 0.0577 0.901 -4.17                                      | 193.2         30.91         0.00240         0.000049           15.1         32.81         0.00216         0.000048           137.1         34.14         0.00176         0.000048           59.1         36.36         0.00184         0.000043           181.0         38.07         0.00176         0.000037 |
| 0.674 26.53 0.0925 0.995 -0.17<br>0.749 26.67 0.1027 1.001 0.02<br>0.849 26.66 0.1165 1.000 0.00                                                                                                                                                                                                                                                                | 244.8 37.35 0.00085 0.000015<br>272.1 37.55 0.00000 0.000003<br>308.4 37.53 0.00000 0.000000                                                                                                                                                                                                             | 1.035 22.64 0.0622 0.936 -2.69<br>1.110 23.34 0.0667 0.965 -1.47<br>1.210 23.92 0.0727 0.989 -0.45<br>1.310 24.15 0.0787 0.999 -0.05<br>1.410 24.19 0.0847 1.001 0.03                                       | 03.0         39.55         0.00167         0.00031           124.9         40.77         0.00154         0.00023           154.2         41.78         0.00118         0.00024           163.5         42.19         0.00062         0.000001           163.5         42.19         0.00062         0.000001   |

| RUN: 1                           | 12871-1                                      | X=34                                                     | . z= (                                    | o.                                                       |                                    |                                          |                                                     |                                                          | RUN:                                 | 112871-                                                  | 1 X=46.                                        | Z= (                                      |                                                          |                                     |                                                  |                                                     |                                                          |
|----------------------------------|----------------------------------------------|----------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|------------------------------------|------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|--------------------------------------|----------------------------------------------------------|------------------------------------------------|-------------------------------------------|----------------------------------------------------------|-------------------------------------|--------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|
| U1<br>CF/2<br>F<br>X             | 22.85<br>0.0005<br>0.0030<br>-0.336E         | 1<br>0<br>- 06                                           | 01 = 0<br>02 = 0<br>0C =25<br>099 = 1     | 0.5760<br>0.3035<br>5.5059<br>1.8068                     | 8ETA<br>B<br>P+<br>V0+             | = 4.435<br>= 5.882<br>= 0.029<br>= 0.132 | RD2<br>H<br>2 G<br>8                                | = 3546.<br>= 1.898<br>=20.951                            | UT<br>CF/2<br>F<br>K                 | 21.77<br>0.000<br>0.002<br>-0.265                        | 48<br>86<br>E-06                               | 01 - 4<br>D2 - 4<br>OC - 3<br>O99 - 3     | 0.7459<br>0.3975<br>4.6860<br>7.3782                     | ВЕТА<br>8<br>Р+<br>V0+              | = 4.596<br>= 5.972<br>= 0.025<br>= 0.130         | H H H H H H H H H H H H H H H H H H H               | * 4425.<br>= 1.877<br>=21.347                            |
| ¥                                | U                                            | ¥/00                                                     | <b>U/U</b>                                | (0-0[1/0                                                 | * Y+                               | U+                                       | TAU                                                 | T AUL AM                                                 | v                                    | U                                                        | Y/DC                                           | U7U T                                     | 10-011/04                                                | • ¥+                                | U+                                               | TAU                                                 | TAULAN                                                   |
| 0.019                            | 2.70                                         | 0.0007                                                   | 0.118                                     | -39.06                                                   | 4.9                                | 5.22                                     | 0.00094                                             | 0.000530                                                 | 0.02                                 | 5 3.13                                                   | 0.0008                                         | 0.144                                     | -39.13                                                   | 6.3                                 | 6.54                                             | 0.00097                                             | 0.000407                                                 |
| 0.021                            | 3.10                                         | 0.0008                                                   | 0.136                                     | -38.27                                                   | 5.4                                | 6.01                                     | 0.00100                                             | 0.000523                                                 | 0.02                                 | 8 3.32                                                   | 0.0008                                         | 0.153                                     | -38.72                                                   | 5.0                                 | 6.98                                             | 0.00100                                             | 0.000393                                                 |
| 0.023                            | 3.43                                         | 0.0009                                                   | 0.150                                     | -37.63                                                   | 6.0                                | 6.66                                     | 0.00105                                             | 0.000516                                                 | 0.03                                 | 0 3.51                                                   | 0.0009                                         | 0.161                                     | -38.33                                                   | 7.3                                 | 7.36                                             | 0.00103                                             | 0.000378                                                 |
| 0.025                            | 3.63                                         | 0.0010                                                   | 0.159                                     | -37.25                                                   | 6.5                                | 7.04                                     | 0.00108                                             | 0.000484                                                 | 0.03                                 | 2 3.76                                                   | 0.0009                                         | 0.173                                     | -37.81                                                   | 7.8                                 | 7.89                                             | 0.00103                                             | 0.00039L                                                 |
| 0.027                            | 3.82<br>4.29<br>4.66<br>5.25<br>5.90<br>6.65 | 0.0010<br>0.0012<br>0.0014<br>0.0016<br>0.0020<br>0.0020 | 0.167<br>0.204<br>0.230<br>0.258<br>0.291 | -36.87<br>-35.97<br>-35.25<br>-34.10<br>-32.85<br>-31.39 | 7.8<br>9.1<br>11.0<br>13.6<br>17.6 | 8.31<br>9.03<br>10.18<br>11.43<br>12.89  | 0.00111<br>0.00125<br>0.00136<br>0.00147<br>0.00162 | 0.000382<br>0.000334<br>0.000272<br>0.000205<br>0.000148 | 0.03<br>0.03<br>0.04<br>0.05<br>0.05 | 4 3.91<br>8 4.17<br>6 4.89<br>8 5.51<br>8 6.13<br>8 6.82 | 0.0011<br>0.0011<br>0.0013<br>0.0017<br>0.0023 | 0.179<br>0.225<br>0.253<br>0.282<br>0.313 | -37,50<br>-36.94<br>-35.43<br>-34.14<br>-32.83<br>-31.39 | 9.3<br>11.2<br>14.1<br>19.0<br>26.3 | 8.20<br>8.76<br>10.27<br>11.56<br>12.87<br>14.31 | 0.00114<br>0.00126<br>0.00137<br>0.00150<br>0.00167 | 0.000342<br>0.000258<br>0.000186<br>0.000124<br>0.000124 |
| 0.087                            | 7.31                                         | 0.0034                                                   | 0.320                                     | -30.12                                                   | 22.9                               | 14.16                                    | 0.00177                                             | 0.000108                                                 | 0.15                                 | 3 7.54                                                   | 0.0045                                         | 0.346                                     | -29.87                                                   | 37.3                                | 15.83                                            | 0.00187                                             | 0.000060                                                 |
| 0.117                            | 7.91                                         | 0.0046                                                   | 0.346                                     | -28.94                                                   | 30.8                               | 15.34                                    | 0.00193                                             | 0.000074                                                 | 3.21                                 | 3 8.15                                                   | 0.0062                                         | 0.374                                     | -28.59                                                   | 51.9                                | 17.11                                            | 0.00208                                             | D.000046                                                 |
| 0.157                            | 8.45                                         | 0.0061                                                   | 0.370                                     | -27.91                                                   | 41.3                               | 16.37                                    | 0.00211                                             | 0.000055                                                 | 0.27                                 | 8 8.89                                                   | 0.0082                                         | 0.409                                     | -27.03                                                   | 67.7                                | 18.67                                            | 0.00232                                             | C.000038                                                 |
| 0.217                            | 9.32                                         | 0.0085                                                   | 0.408                                     | -26.22                                                   | 57.2                               | 18.06                                    | 0.00237                                             | 0.000045                                                 | 0.37                                 | 8 9.74                                                   | 0.0111                                         | 0.448                                     | -25.25                                                   | 92.1                                | 20.45                                            | 0.00262                                             | 0.000034                                                 |
| 0.272                            | 9.85                                         | 0.0106                                                   | 0.431                                     | -25.20                                                   | 71.7                               | 19.08                                    | 0.00255                                             | 0.000045                                                 | 0.47                                 | 8 10.34                                                  | 0.0140                                         | 0.475                                     | -23.99                                                   | 116.5                               | 21.71                                            | 0.00286                                             | 0.000032                                                 |
| 0.347                            | 10.52                                        | 0.0136                                                   | 0.460                                     | -23.89                                                   | 91.5                               | 20.39                                    | 0.00277                                             | 0.000039                                                 | 0.57                                 | 8 11.00                                                  | 0.0170                                         | 0.505                                     | -22.60                                                   | 140.8                               | 23.10                                            | 0.00306                                             | 0.000031                                                 |
| D.422                            | 11.29                                        | 0.0165                                                   | 0.494                                     | -22.40                                                   | 111.3                              | 21.88                                    | 0.00297                                             | 0.000038                                                 | 0.70                                 | 3 12.09                                                  | 0.0206                                         | 0.556                                     | -20.31                                                   | 171.3                               | 25.39                                            | 0.00330                                             | 0.000031                                                 |
| 0.497                            | 11.97                                        | 0.0195                                                   | 0.524                                     | -21.08                                                   | 131.1                              | 23.20                                    | 0.00312                                             | 0.000037                                                 | 0.82                                 | 8 12.88                                                  | 0.0243                                         | 0.592                                     | -18.66                                                   | 201.7                               | 27.03                                            | 0.00339                                             | 0.000029                                                 |
| 0.597                            | 13.07                                        | 0.0234                                                   | 0.572                                     | -18.96                                                   | 157.4                              | 25.33                                    | 0.00327                                             | 0.000037                                                 | 0.95                                 | 3 13.82                                                  | 0.0280                                         | 0.635                                     | -16.69                                                   | 232.2                               | 29.01                                            | 0.00345                                             | 0.000029                                                 |
| D.697                            | 13.88                                        | 0.0273                                                   | 0.607                                     | -17.39                                                   | 183.8                              | 26.89                                    | 0.00326                                             | 0.000037                                                 | 1.07                                 | 8 14.67                                                  | 0.0316                                         | 0.674                                     | -14.90                                                   | 262.6                               | 30.80                                            | 0.00338                                             | 0.000028                                                 |
| 0.797                            | 14.90                                        | 0.0312                                                   | 0.652                                     | -15.41                                                   | 210.2                              | 28.87                                    | 0.00325                                             | 0.000037                                                 | 1.20                                 | 3 15.40                                                  | 0.0353                                         | 0.707                                     | -13.37                                                   | 293.1                               | 32.33                                            | 0.00319                                             | 0.000028                                                 |
| 0.897                            | 15.88                                        | 0.0352                                                   | 0.695                                     | -13.50                                                   | 236.6                              | 30.78                                    | 0.00314                                             | 0.000037                                                 | 1.32                                 | 8 16.32                                                  | 0.0390                                         | 0.750                                     | -11.44                                                   | 323.6                               | 34.25                                            | 0.00301                                             | 0.000028                                                 |
| 0.997                            | 16.87                                        | 0.0391                                                   | 0.738                                     | -11.59                                                   | 263.0                              | 32.69                                    | 0.00294                                             | 0.000036                                                 | 1.45                                 | 3 17.19                                                  | 0.0426                                         | 0.790                                     | -9.62                                                    | 354.0                               | 36.08                                            | 0.00277                                             | 0.000027                                                 |
| 1.097                            | 17.88                                        | 0.0430                                                   | 0.783                                     | -9.63                                                    | 289.4                              | 34.65                                    | 0.00269                                             | 0.000035                                                 | 1.57                                 | 8 17.93                                                  | 0.0463                                         | 0.824                                     | -8.05                                                    | 384.5                               | 37.65                                            | 0.00241                                             | 0.000026                                                 |
| 1.197                            | 18.85                                        | 0.0430                                                   | 0.825                                     | -7.75                                                    | 315,8                              | 36.53                                    | 0.00239                                             | 0.000033                                                 | 1.70                                 | 3 16.82                                                  | 0.0500                                         | 0.865                                     | -6.19                                                    | 414.9                               | 39.51                                            | 0.00214                                             | 0.000024                                                 |
| 1.297                            | 19.61                                        | 0.0508                                                   | 0.858                                     | -6.28                                                    | 342.2                              | 38.00                                    | 0.00198                                             | 0.000031                                                 | 1.85                                 | 3 19.55                                                  | 0.0544                                         | 0.898                                     | -4.65                                                    | 451.5                               | 41.05                                            | 0.00165                                             | 0.000021                                                 |
| 1.397                            | 20.50                                        | 0.0548                                                   | 0.897                                     | -4.56                                                    | 368.6                              | 39.73                                    | 0.00176                                             | 0.000028                                                 | 2.00                                 | 3 20.50                                                  | 0.0588                                         | 0.941                                     | -2.68                                                    | 488.0                               | 43.02                                            | 0.00145                                             | 0.000017                                                 |
| 1.497                            | 21.28                                        | 0.0587                                                   | 0.931                                     | -3.04                                                    | 395.0                              | 41.24                                    | 0.00157                                             | 0.000023                                                 | 2.15                                 | 3 21.11                                                  | 0.0632                                         | 0.970                                     | -1.38                                                    | 524.6                               | 44.31                                            | 0.00116                                             | 0.000013                                                 |
| 1.597                            | 21.89                                        | 0.0626                                                   | 0.958                                     | -1.85                                                    | 421.4                              | 42.43                                    | 0.00134                                             | 0.000019                                                 | 2.30                                 | 3 21.47                                                  | 0.0676                                         | 0.986                                     | -0.63                                                    | 561.1                               | 45.07                                            | 0.00080                                             | 0.000009                                                 |
| 1.697                            | 22.37                                        | 0.0665                                                   | 0.979                                     | -0.94                                                    | 447.8                              | 43.34                                    | 0.00111                                             | 0.000013                                                 | 2.50                                 | 3 21.69                                                  | 0.0734                                         | 0.996                                     | -0.17                                                    | 609.8                               | 45.53                                            | 0.00034                                             | 0.000004                                                 |
| 1.797<br>1.897<br>2.047<br>2.197 | 22.60<br>22.81<br>22.86<br>22.85             | 0.0704<br>0.0744<br>0.0802<br>0.0861                     | 0.989<br>0.998<br>1.000<br>L.000          | -0.48<br>-0.07<br>0.01<br>0.00                           | 474.1<br>500.5<br>540.1<br>579.7   | 43.80<br>44.21<br>44.30<br>44.28         | 0.00076<br>0.00049<br>0.00000<br>0.00000            | 0.000009<br>0.000005<br>0.000000<br>0.000000             | 2.70<br>2.90                         | 3 21.78<br>3 21.77                                       | 0.0793<br>0.0852                               | 1.000                                     | 0.01<br>0.00                                             | 658.6<br>797.3                      | 45.71<br>45.70                                   | 0.00000                                             | -0.000001<br>0.000000                                    |

1.560 24.18 0.0937 1.000 0.00 456.6 42.24 0.00000 0.000000

| RUN: 1 | 12871-1 | X=58                                  | • Z=  | 0.        |           |         |          |           | RUN:            | 112871-1 | X= 70   | . 2=  | 0.        |             |         |         |          |
|--------|---------|---------------------------------------|-------|-----------|-----------|---------|----------|-----------|-----------------|----------|---------|-------|-----------|-------------|---------|---------|----------|
| UI =   | 21.74   |                                       | 01 =  | 0.9009    | 8ET #     | 4 .668  | R DZ     | - 5258.   | V1 -            | 20.55    |         | 01 =  | 1.0454    | <b>BETA</b> | - 4.663 | RDA     | = 6046.  |
| CF/2-  | 0.0004  | 6                                     | D2 -  | 0.4887    | 8         | - 6.020 | ) н      | = 1.843   | CF/2=           | 0.0004   | 4       | 02 -  | 0.5754    | 8           | - 6.039 | н       | - 1.817  |
| F =    | 0.0027  | 5                                     | DC =4 | 2.1483    | P +       | - 0.022 | 5 G      | =21.404   | F .             | 0.0026   | 6       | DC =4 | 9.8095    | ě.          | - 0.020 | 2 6     | =21-423  |
| K =    | -0.220E | -06                                   | 099 = | 2.9299    | V0+       | + 0.128 | 7        |           | к -             | -0.1878  | -06     | 099 = | 3.4270    | ¥0+         | = 0.126 | 7       |          |
|        |         |                                       |       |           |           |         |          |           |                 |          |         |       |           |             |         |         |          |
| ۲      | U       | Y/DC                                  | 0701  | 10-011704 | ¥ ¥+      | U+      | T AU     | T AUL AN  | ¥               | U        | Y/DC    | 0701  | {U-U1}/0+ | ٧+          | U+      | TAU     | TAULAM   |
| 0.028  | 3.40    | 0,0007                                | 0.162 | -39.21    | 5.4       | 7.57    | 0.00097  | 0.000404  | 0.028           | 3.10     | 0.0006  | 0.151 | - 40. 45  | 6.2         | 7.20    | 0.00090 | 0.000380 |
| 0.030  | 3.76    | 0.0007                                | 0.179 | -38.42    | 6.9       | 8.37    | 0.00102  | 0.000381  | 0.030           | 3.38     | 0.0006  | 0.165 | -39.01    | 6.6         | 7.84    | 0.00094 | 0.000360 |
| 0.032  | 3.92    | 0.0008                                | 0.186 | -36.07    | 7.4       | 8.72    | 0.00105  | 0.000359  | 0.032           | 3.43     | 0.0006  | 0.167 | - 39.70   | 7.1         | 7.94    | 0.00094 | 0.000340 |
| 3.034  | 4.16    | 0.008                                 | 0.198 | -37.54    | 7.8       | 9.24    | 0.00108  | 0.000362  | 0.034           | 3.56     | 0.0007  | 0.173 | -39.39    | 7.5         | 8.26    | 0.00097 | 0.000309 |
| 0.038  | 4.31    | 0.0009                                | 0.205 | -37.21    | 8,7       | 9.58    | 0.00111  | 0.000272  | 0.039           | 3.95     | 0.0008  | 0.192 | -38.49    | 8.6         | 9.15    | 0.00102 | 0.000275 |
| 0.046  | 4.76    | 0.0011                                | 0.226 | - 36 . 21 | 10.6      | 10.58   | 0.00119  | 0.000220  | 0.049           | 4.38     | 0.0010  | 0.213 | -37.48    | 10.8        | 10.17   | 0.00110 | 0.000235 |
| 3.058  | 5.33    | 0.0014                                | 0.254 | - 34.92   | 13.3      | 11.86   | 0.00129  | 0.000167  | 0.068           | 5.30     | 0.0014  | 0.258 | - 35. 36  | 15.0        | 12.29   | 0.00125 | 0.000155 |
| 0.078  | 5.98    | 0.0019                                | 0.284 | -33.48    | 17.9      | 13.30   | 0.00142  | 0.000122  | 0.105           | 6.34     | 0.0022  | 0.309 | -32.95    | 23.8        | 14.70   | 0.00146 | 0.000091 |
| 0.113  | 6.67    | 0.0027                                | 0.317 | -31.95    | 26.0      | 14.84   | 0.00158  | 0.000080  | 0.183           | 7.11     | 0.0037  | 0.346 | - 31. 15  | 40.4        | 16.50   | 0.00169 | 0.003050 |
| 0.158  | 7.44    | 0.0037                                | 0.354 | - 30 - 24 | 36.3      | 16.54   | 0.00177  | 0.000056  | 0.258           | 8.03     | 0.0052  | 0.391 | -29.02    | 56.9        | 18.63   | 0.00195 | 0.000037 |
| 1.211  | 8.08    | 0.0055                                | 0.384 | - 28.81   | 53.6      | 17.98   | 0.00200  | 0.000039  | 1.333           | 8.53     | 0.0067  | 0.415 | -27.87    | 73.4        | 15.78   | 0.00214 | 0.00030  |
| 0.308  | 8.67    | 0.0073                                | 0.412 | -27.51    | 79.8      | 19.28   | 0.00222  | 0.000031  | 0.408           | 8.75     | 0.0082  | 0.426 | -27.36    | 90.0        | 20.29   | 0.00229 | 0.000026 |
| 0.408  | 9.28    | 0.0097                                | 0.441 | -26.16    | 93.8      | 20.63   | 0.00246  | 0.003026  | 0.508           | 9.48     | 0.0102  | 0.461 | -25.67    | 112.0       | 21.9B   | 0.00253 | 0.000021 |
| 0.508  | 9.86    | 0.0121                                | 0.468 | -74.90    | 116.8     | 21.89   | 0.00269  | 0.000025  | 0.633           | 9.88     | 0.0127  | 0.481 | -24.74    | 139.6       | 22.91   | 0.00274 | 0.000022 |
| 0.608  | 10.33   | 0.0144                                | 0.491 | -23.81    | 139.8     | 22.98   | 0.00289  | 0.000023  | 0.758           | 10.50    | 0.0152  | 0.511 | - 23. 29  | 167.2       | 24.36   | 0.00297 | 0.000021 |
| 0 733  | 10.84   | 0.0174                                | 1.514 |           | 168.6     | 74.14   | 0.00307  | 0.00024   | 0. 9 <b>0</b> 8 | 11.16    | 0.0147  | 0.543 | -71.77    | 200.2       | 75 88   | 0 00371 | 0.000031 |
| 2 45   | 11 41   | 0.0204                                | 0.510 | - 10 04   | 107.3     | 25 95   | 0 00335  | 0.000024  | 1 054           | 11 41    | 0 0717  | 0.575 | - 25 26   | 2222        | 27 30   | 0.00321 | 0.000021 |
| 1 000  | 12 30   | 0.0230                                | 0.585 | -10 47    | 771 8     | 27 35   | 0.00315  | 0.000025  | 1 208           | 17 45    | 0.0743  | 0.575 | -18 77    | 233.3       | 20.00   | 0.00340 | 0.000021 |
| 1.15   | 12.30   | 0,0237                                | 0./30 | -17 10    | 2 3 1 4 3 | 20 40   | 0.00335  | 0.000025  | 1.200           | 12.32    | 0.0243  | 3.800 | -16.77    | 200.4       | 10.00   | 0.00355 | 3.000020 |
| 1.100  | 13.22   | 0.0279                                | 0,020 | -16 54    | 200.3     | 2 3. 40 | 0.00345  | 0.000026  | 1.400           | 16 31    | 0,0283  | 0.044 | -16.75    | 310.3       | 30.90   | 0.00365 | 0.000020 |
| 1.308  | 14.04   | 0.0310                                | 0.007 | -13.30    | 30.0.6    | 3123    | 0.00340  | 0.000028  | 1.000           | 14.51    | 0.0525  | 0.090 | -14.47    | 334.0       | 33.10   | 0.00363 | 0.000020 |
| 1.458  | 14.98   | 0.0346                                | 0.712 | -13.47    | 335.3     | 33.32   | 0.00343  | 0.000025  | 1.808           | 14.96    | 0.0363  | 0.728 | -12.96    | 398.7       | 34.69   | 0.00339 | 0.000020 |
| 1.638  | 15.80   | 0.0382                                | 0.751 | -11.64    | 369.8     | 35.14   | 0.00329  | 0.000024  | 2,008           | 15,82    | 0.0403  | 0.770 | -10.97    | 442.8       | 36.68   | 0.00314 | 0.000020 |
| 1.758  | 16.64   | 0.0417                                | 0.791 | -9.79     | 404.3     | 37.00   | 0.00308  | 0.000023  | 2.208           | 16.83    | 0.0443  | 0.819 | -8.63     | 4P6.9       | 39.02   | 0.00289 | 0.000019 |
| 1.908  | 17.36   | 0.0453                                | 0.825 | -8.17     | 438.8     | 38.61   | 0.00274  | 0.000021  | 2,408           | 17.61    | 0.0483  | 0.857 | -6.80     | 531.D       | 40.85   | 0.00248 | 0.000017 |
| 2.056  | 18.13   | 0.0488                                | 0.862 | -6.48     | 473.3     | 40.31   | 0.00238  | 0.000020  | 2.608           | 18.33    | 0.0524  | 0.892 | -5.14     | 575.1       | 42,51   | 0.00201 | 0.000015 |
| 2.208  | 18.72   | 0.0524                                | 0.890 | -5.16     | 507.8     | 41.63   | 0.00192  | 0.00018   | 2.928           | 19.32    | 0.0584  | 0.941 | -2.83     | 641.3       | 44.81   | 0.00140 | 0.000011 |
| 2.408  | 19.56   | 0.0571                                | 0.910 | -1.28     | 551.7     | 43.51   | 0.00147  | 0.000014  | 3.208           | 20.01    | 0.0644  | 0.974 | -1.24     | 707.4       | 46.41   | 0.00086 | 0.000008 |
| 2.604  | 20.21   | 0.0619                                | 0.941 | -1.84     | 599.7     | 44.94   | 0.00104  | 0.000011  | 3,508           | 20.44    | 0.0704  | AP0.0 | -0.19     | 773.6       | 47.45   | 0.00067 | 0.00004  |
| 2.808  | 20.72   | 0.0666                                | 0.985 | -0.71     | 645.7     | 46.07   | 0-00076  | 0.000008  | 3.804           | 20.51    | C. 0765 | 0.598 | -0.08     | 819.8       | 47.57   | 0.00011 | 0.000001 |
| 3.108  | Z0.99   | 0.0737                                | 0.998 | -0.11     | 714.7     | 46.68   | 0.00028  | 0.000003  | 3.908           | 20.54    | 0.0785  | 1.000 | -0.02     | 861.8       | 47.63   | 0.00007 | 0.000001 |
| 3.408  | 2105    | 0.0809                                | 1.000 | 0.02      | 783.7     | 66.80   | 0.00000  | -0.000000 | 4.308           | 20.55    | 0.0865  | 1.000 | 0.00      | 950.0       | 47.45   | 0 00000 | 0.00000  |
| 1.708  | 21.04   | 0.0880                                | 1.000 | 0.00      | 652.7     | 46.79   | 0.00000  | 0.000000  |                 | 20.00    |         |       | 5.55      |             |         |         |          |
| 2.104  |         | · · · · · · · · · · · · · · · · · · · |       |           |           |         | 0.000.00 |           |                 |          |         |       |           |             |         |         |          |

.

| RUN: 1 | 12871-1 | X= 82  | . Z= ( | σ.       |        |         |         |          | RUN; I | 12871-1 | X=90   | . Z=   | e.        |       |          |            |
|--------|---------|--------|--------|----------|--------|---------|---------|----------|--------|---------|--------|--------|-----------|-------|----------|------------|
| UT #   | 20.13   |        | D1 =   | 1.1871   | BETA   | - 4.694 | RDZ     | = 6870.  | - IL   | 19.81   |        | 01 .   | 1.2877    | AFT   |          | 802 - 7334 |
| CF/2=  | 0.0004  | Z      | D2 = ( | 0.6674   | 8      | = 6.152 | н       | • 1.779  | CF/2=  | 0.0004  | ,      | 02 + 0 | 7734      |       | - 4 141  |            |
| F .    | 0.0026  | 0      | DC =5  | 7.7434   | P+     | = 0.018 | 6 G     | =21.295  | F =    | 0.0025  | Ā      | 00 16  | 3.1774    | D.    | - 0.101  |            |
| K =    | -0.162F | -06    | 099 .  | 1.9999   | VC+    | = 0.176 | 5       |          |        | -0 3555 | -04    | 000 -0 | 4 7811    |       | - 0.0183 | 6 21.497   |
|        |         |        |        |          |        |         |         |          | r -    |         | -00    | 077    |           | 40+   | . 0.1256 |            |
| ۲      | U       | ¥/DC   | 0701   | (U-U1)/U | * Y+   | U+      | TAU     | TAULAN   | Y      | U       | ¥/DC   | 0701   | 10-01370  | • ¥+  | U+       | TAULAN     |
| 0.027  | Z.75    | 0.0005 | 0.137  | -42.00   | 5.7    | 6.65    | 0.00082 | 0.000435 | 0.030  | 3.07    | 0.0005 | 0,155  | - 41. 44  | 6.2   | 7.61     | 0.000402   |
| 0.029  | 2.79    | 0.0005 | 0.139  | -41.89   | 6.1    | 6.75    | 0.00083 | 0.000428 | 0.034  | 3.46    | 0.0005 | 0.174  | -40.50    | 7.0   | 8.56     | 0.000375   |
| 0.031  | 3.07    | 0.0005 | 0.153  | -41.21   | 6.6    | 7.43    | 0.00087 | 0.000420 | 3.038  | 3.64    | 0.0006 | 0.184  | -40.03    | 7.4   | 9.02     | 0.000368   |
| 0.035  | 3.43    | 0.0006 | 0.170  | -40.35   | 7.4    | 8.29    | 0.00092 | 0.000374 | 0.04Z  | 3.87    | 0.0007 | 0.195  | -39.48    | 8.6   | 9.58     | 0.00744    |
| 0.039  | 3.76    | 0.0007 | 0.187  | -39.55   | 8.3    | 9.09    | 0.00097 | 0.000348 | 0.050  | 4.16    | 0.000B | 0.210  | - 18.75   | 10.3  | 10.31    | 0.000237   |
|        |         |        |        |          |        |         |         |          |        |         |        |        |           |       |          | 01000151   |
| 0.043  | 4.03    | 0.0007 | 0.200  | -38.91   | 9.1    | 9.73    | 0.00101 | 0.000303 | 0.065  | 5.12    | 0.0010 | 0.258  | - 36.39   | 13.4  | 12.67    | 0.000175   |
| 0.050  | 4.ZZ    | 0.0009 | 0.210  | -38.45   | 10.6   | 10.19   | 0.00105 | 0.000264 | 0.085  | 5.51    | 0.0013 | 0.278  | - 35.41   | 17.5  | 13.65    | 0.000130   |
| 0.062  | 5.03    | 0.0011 | 0.250  | -36.50   | 13.1   | 12.14   | 0.00117 | 0.000199 | 0.115  | 6.11    | 0.0018 | 0.308  | -11.94    | 21.7  | 15.12    | 0.000120   |
| 0.082  | 5.82    | 0.0014 | 0.289  | -34.57   | 17.4   | 14.07   | 0.00130 | 0.000141 | 0.145  | 6.44    | 0.0073 | 0.325  | -11.12    | 70.0  | 15 04    | 0.000082   |
| 0.112  | 6.21    | 0.0019 | 0.309  | -33.63   | 23.7   | 15.01   | 0.00140 | 0.000095 | 0.205  | 6.94    | 0.0012 | 0.350  | - 31 47   | 42.5  | 17 10    | 0.000038   |
|        |         |        |        |          |        |         |         |          |        |         |        | •••••  |           |       |          | 0.000044   |
| 0.157  | 7.09    | 0.0027 | 0.352  | -31.50   | 33.Z   | 17.14   | 0.00157 | 0.000060 | 0.290  | 7.71    | 0.0046 | 0.389  | -29.97    | 59.9  | 19.08    | 0.000033   |
| 0.227  | 7.66    | 0.0039 | 0.381  | -30.13   | 48.0   | 18.51   | 0.00172 | 0.000039 | 0,390  | 8.15    | 0.0062 | 0.411  | -28.87    | 80.5  | 20.18    | 0.000027   |
| 5.30Z  | 8.18    | 0.0052 | 0.407  | -28.86   | 63.9   | 19.78   | 0.00187 | 0.000029 | 0.515  | 8.88    | 0.0081 | 0.448  | -27.08    | 106.3 | 21.97    | 0.000027   |
| 0.40Z  | 8.77    | 0.0070 | 0.436  | -27.45   | 85.1   | 21.19   | 0.00205 | 0.000024 | 3.665  | 9.47    | 0.0105 | 0.478  | -25.62    | 137.3 | 23 44    | 0.000022   |
| 0.527  | 9.11    | 0.0091 | 0.452  | - 26.64  | 111.5  | 22.00   | 0.00222 | 0.000020 | 0.815  | 9.89    | 0.0129 | 0.499  | - 24 . 58 | 168.3 | 24.48    | 0.000021   |
|        |         |        |        |          |        |         |         |          |        |         |        |        | 2         |       | 24140    | 0.000014   |
| 2.652  | 9.62    | 0.0113 | 0.478  | -25.40   | 138.0  | 23.24   | 0.00244 | 0.000020 | 1.015  | 10.57   | 0.0161 | 0.533  | -22.90    | 209.6 | 26.16    | 0 000017   |
| D.802  | 10.33   | 0.0139 | 0.513  | -23.68   | 169.7  | 24.96   | 0.00268 | 0.000019 | 1.215  | 11.52   | 0.0192 | 0.581  | -20.54    | 250.9 | 24 51    | 0.000011   |
| 0.952  | 10.65   | 0.0165 | 0.529  | -22.90   | 201.5  | 25.75   | 0.00282 | 0.000018 | 1.415  | 11.98   | 0.0224 | 0.604  | -19.40    | 292.2 | 29.45    | 0.000015   |
| 1.107  | 11.43   | 0.0191 | 0.568  | -21.01   | 233.2  | 27.63   | 0.00304 | 0.00018  | 1.615  | 12.46   | 0.0256 | 0.429  | -18.21    | 111 4 | 30 84    | 0.0000116  |
| 1.302  | 12.15   | 0.0225 | 0.604  | -19.27   | 275.5  | 29.37   | 0.00324 | 0.000017 | 1.815  | 12.95   | 0.0287 | 0.653  | -17.00    | 174 0 | 12 05    | 0.000015   |
|        |         |        |        |          |        |         |         |          |        |         |        |        |           |       | 52.05    | 0.000013   |
| 1.502  | 12.63   | 0.0260 | 0.627  | -18.12   | 317.8  | 30.52   | 0.00332 | 0.000017 | 2.115  | 14.17   | 0.0115 | 0.715  | -11.98    | 436.B | 35.07    | 0.000014   |
| 1.702  | 13.45   | 0.0295 | 0.668  | -16.14   | 360.Z  | 32.50   | 0.00337 | 0.000017 | 2.415  | 14.93   | 0.0382 | 0.754  | -12.09    | 408.8 | 34 07    | 0.000016   |
| 2.002  | 14.47   | 0.0347 | 0.719  | -13.66   | 423.7  | 34.98   | 0.00324 | 0.000017 | 2.715  | 16.04   | 0.0410 | 0.409  | -9.15     | 540.8 | 19.70    | 0.000015   |
| 2.302  | 15.57   | 0.0399 | 0.774  | -11.01   | 487.1  | 37.64   | 0.00300 | 0.000017 | 3.015  | 16.96   | 0.0677 | 0.856  | -7.07     | 422 7 | A1 CB    | 0.000019   |
| 2.602  | 16.62   | 0.0451 | 0.826  | -8.49    | 550.6  | 40.15   | 0.00258 | 0.000015 | 3, 315 | 17.66   | 0.0525 | 1.491  | -5.34     | 484.7 | 41 72    | 0.000014   |
|        |         |        |        |          |        |         |         |          |        |         |        |        |           | 00147 | 434.12   | 0.000012   |
| 2.902  | 17.65   | 0.0503 | 0.877  | -5.98    | 614.1  | 42.66   | 0.00209 | 0.000014 | 3,615  | 18.52   | 0.0572 | 0.935  | - 3, 20   | 746.7 | 45.85    | 0.000011   |
| 3.20Z  | 18.42   | 0.0555 | 0.915  | -4.13    | 677.6  | 44.52   | 0.00144 | 0.000011 | 3.915  | 19.07   | 0.0620 | 0.963  | -1.43     | 808.6 | 47.22    | 0.000011   |
| 1.502  | 19.16   | 0.0606 | 0.952  | - 2.33   | 741.1  | 46.31   | 0.00089 | 0.000009 | 4.415  | 19.41   | 0.0699 | 1.000  | 0.00      | 911.9 | 49.04    | 0.000009   |
| 3.902  | 19.86   | 0.0676 | 0.987  | -0.64    | 825.7  | 48.00   | 0.00034 | 0.000007 |        |         |        |        |           | ***** | 4 74 04  | 0.000000   |
| 4.302  | 20.13   | 0.0745 | 1.000  | 0.00     | 91 0.4 | 48.64   | 0.00000 | 0.000000 |        |         |        |        |           |       |          |            |

| RUN: 1                                    | 02171-1                                   | X= 2                                           | . <i>1</i> .                              | α.                                             |                                           |                                            |                 |      |                                           | RI                | JN: 1                           | 02171-1                                   | x=10                                           | . Z=                                 | ο.                                                       |                                           |                                           |                                                                |                                                                      |
|-------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|--------------------------------------------|-----------------|------|-------------------------------------------|-------------------|---------------------------------|-------------------------------------------|------------------------------------------------|--------------------------------------|----------------------------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| UT<br>CF/2<br>F<br>K                      | 29.71<br>0.0019<br>0.0039<br>-0.455E      | 4<br>9<br>-06                                  | D1 •<br>D2 •<br>DC •<br>099 •             | 0.0702<br>0.0418<br>1.5925<br>0.3301           | 8E TA<br>8<br>9+<br>V0+                   | - 0.251<br>- 2.052<br>- 0.0053<br>- 0.0905 | # D 2<br>H<br>G | - 1  | 639.<br>.679<br>.169                      | U<br>CI<br>F<br>K | /2                              | 27.02<br>0.0007<br>0.0040<br>-0.850E      | 3<br>2<br>- 06                                 | 01 =<br>02 =<br>0C =<br>099 =        | 0.1964<br>0.1059<br>7.2700<br>0.6491                     | 8E TA<br>B<br>P+<br>V0+                   | 3.179<br>5.507<br>0.043<br>0.148          | RDZ<br>H<br>G                                                  | = 1472.<br>= 1.855<br>=17.060                                        |
| ۲                                         | U                                         | Y/DC                                           | U/U I                                     | (U-UT)/U                                       | * Y+                                      | U+                                         |                 | TAU  | UL AM                                     |                   | ۷                               | U                                         | ¥/DC                                           | U/UT                                 | 10-01170                                                 | • • •                                     | U+                                        | TAU                                                            | TAULAN                                                               |
| 0.004<br>0.005<br>0.006<br>0.008<br>0.013 | 3.83<br>4.26<br>4.77<br>6.00<br>7.13      | 0.0027<br>0.0033<br>0.0040<br>0.0052<br>0.0052 | 0.129<br>0.143<br>0.161<br>0.202<br>0.240 | -19.76<br>-19.43<br>-19.04<br>-18.09<br>-17.24 | 2.9<br>3.6<br>4.2<br>5.6<br>6.9           | 2.92<br>3.25<br>3.64<br>4.58<br>5.44       |                 | 0.00 | 01593<br>01520<br>01447<br>01362<br>01315 | 0<br>0<br>0<br>0  | 008                             | 2.93<br>3.45<br>4.42<br>5.61<br>6.69      | 0.0011<br>0.0014<br>0.0018<br>0.0023<br>0.0030 | 0.10<br>0.12<br>0.16<br>0.20<br>0.24 | 8 -33.00<br>8 -32.28<br>4 -30.95<br>8 -29.32<br>8 -27.84 | 3.0<br>3.8<br>4.9<br>6.4<br>8.3           | 4.01<br>4.73<br>6.06<br>7.69<br>9.17      | 0.00126<br>0.00136<br>0.00153<br>0.00175<br>0.00175            | 0.000880<br>0.000834<br>0.000765<br>0.000634<br>0.000507             |
| 0.012<br>0.014<br>0.016<br>0.018<br>0.021 | 8.38<br>9.76<br>10.59<br>11.45<br>12.69   | 0.0077<br>0.0090<br>0.0102<br>0.0115<br>0.0115 | 0.282<br>0.328<br>0.356<br>0.385<br>0.427 | -16,28<br>-15,23<br>-14,60<br>-13,94<br>-12,99 | 8.3<br>9.6<br>11.0<br>12.3<br>14.4        | 6.40<br>7.45<br>8.08<br>8.74<br>9.68       |                 | 0.00 | 01221<br>01128<br>01034<br>00906<br>00738 | 0000              | 027<br>032<br>038<br>045<br>054 | 7.60<br>8.28<br>8.98<br>9.68<br>10.14     | 0.0037<br>0.0044<br>0.0052<br>0.0062<br>0.0062 | 0.28<br>0.30<br>0.33<br>0.35<br>0.37 | 1 -26.60<br>7 -25.66<br>2 -24.71<br>8 -23.75<br>5 -23.12 | 10.1<br>12.0<br>14.3<br>16.9<br>20.3      | 10.41<br>11.35<br>12.30<br>13.26<br>13.49 | 0.00212<br>0.00225<br>0.00238<br>0.00251<br>0.00259            | 0.000413<br>0.000328<br>0.000274<br>0.000224<br>0.000183             |
| 0.024<br>0.027<br>0.030<br>0.034<br>0.039 | 13.71<br>14.36<br>15.01<br>15.60<br>16.48 | 0.0153<br>0.0171<br>0.0190<br>0.0215<br>0.0247 | 0.461<br>0.483<br>0.505<br>0.525<br>0.555 | -12.21<br>-11.72<br>-11.22<br>-10.77<br>-10.10 | 16.4<br>18.4<br>20.4<br>23.1<br>26.5      | 10.46<br>10.96<br>11.46<br>11.91<br>12.58  |                 | 0.00 | 00609<br>00514<br>00430<br>00359<br>00308 | 0                 | 069<br>089<br>114<br>139<br>164 | 11.22<br>12.08<br>13.07<br>13.86<br>14.79 | 0.0095<br>0.0122<br>0.0157<br>0.0191<br>0.0226 | 0.41<br>0.44<br>0.48<br>0.51<br>0.54 | 5 -21.64<br>7 -20.46<br>4 -19.10<br>3 -18.02<br>7 -16.75 | 25.9<br>33.4<br>42.8<br>52.2<br>61.6      | 15.37<br>16.55<br>17.91<br>18.99<br>20.26 | 0.00278<br>0.00289<br>0.00297<br>0.00295<br>0.00295            | 0.000144<br>0.000118<br>0.000101<br>0.000093<br>0.000089             |
| 0.045<br>0.052<br>0.060<br>0.070<br>0.085 | 17.17<br>17.97<br>18.69<br>19.55<br>20.61 | 0.0284<br>0.0328<br>0.0379<br>0.0441<br>0.0536 | 0.578<br>0.605<br>0.629<br>0.658<br>0.694 | -9.58<br>-8.96<br>-8.41<br>-7.75<br>-6.95      | 30.5<br>35.3<br>40.6<br>47.4<br>57.5      | 13.10<br>13.71<br>14.26<br>14.92<br>15.73  |                 | 0.0  | 00263<br>00228<br>00201<br>00181<br>00161 | 0                 | 189<br>214<br>239<br>264<br>294 | 15.51<br>16.33<br>17.08<br>17.80<br>18.72 | 0.0260<br>0.0294<br>0.0329<br>0.0363<br>0.0404 | 0.57<br>0.60<br>0.63<br>0.65<br>0.69 | 4 -45.76<br>4 -14.64<br>2 -13.61<br>9 -12.62<br>3 -11.37 | 71.0<br>80.4<br>89.7<br>99.1<br>110.4     | 21.25<br>22.37<br>23.40<br>24.39<br>25.64 | 0.00285<br>0.00278<br>0.00266<br>0.00252<br>0.00239            | 0.000085<br>0.000083<br>0.000081<br>0.000080<br>0.000080<br>0.000078 |
| 0.102<br>0.122<br>0.142<br>0.162<br>0.182 | 21.87<br>23.12<br>24.22<br>25.24<br>26.04 | 0.0642<br>0.0768<br>0.0894<br>0.1019<br>0.1145 | 0.736<br>0.778<br>0.815<br>0.849<br>0.876 | -5.99<br>-5.03<br>-4,19<br>-3.42<br>-2.50      | 69.0<br>82.4<br>95.9<br>109.4<br>122.9    | 16.69<br>17.64<br>18.48<br>19.26<br>19.87  |                 | 0.00 | 00145<br>00127<br>0012<br>00098<br>00098  | 0<br>0<br>0       | 324<br>354<br>384<br>414<br>449 | 19.58<br>20.46<br>21.26<br>22.11<br>23.09 | 0.0446<br>0.0487<br>0.0528<br>0.0569<br>0.0618 | 0.72<br>0.75<br>0.78<br>0.81<br>0,85 | 5 -10.19<br>7 -8.98<br>7 -7.89<br>8 -6.73<br>5 -5.38     | 121.7<br>137.9<br>144.2<br>155.5<br>168.6 | 26.82<br>28.03<br>29.12<br>30.29<br>31.63 | 0.00225<br>0.00215<br>0.00204<br>0.00202<br>0.00202            | 0.000077<br>0.000076<br>0.000075<br>0.000072<br>0.000072             |
| 0.207<br>0.232<br>0.262<br>0.247<br>0.337 | 27.00<br>27.71<br>28.47<br>29.09<br>29.49 | 0.1302<br>0.1459<br>0.1647<br>0.1867<br>0.2118 | 0.909<br>0.933<br>0.958<br>0.979<br>0.992 | -2.07<br>-1.53<br>-0.95<br>-0.47<br>-0.L7      | 139.7<br>156.6<br>176.8<br>200.4<br>227.4 | 20.60<br>21.15<br>21.73<br>22.20<br>22.50  |                 | 0.0  | 00071<br>00057<br>00043<br>00028<br>00017 | 0                 | 489<br>529<br>569<br>609<br>649 | 24.15<br>25.02<br>25.79<br>26.35<br>26.75 | 0.0673<br>0.0728<br>0.0783<br>0.0838<br>0.0838 | 0.89<br>0.92<br>0.95<br>0.97<br>0.97 | 4 -3.93<br>6 -2.74<br>5 -1.68<br>5 -0.91<br>0 -0.37      | 183.6<br>198.6<br>213.7<br>228.7<br>243.7 | 33.09<br>34.27<br>35.33<br>36.10<br>36.64 | 0.00215<br>0.00218<br>0.00220<br>0.00210<br>0.00210<br>0.00190 | 0.000061<br>0.000051<br>0.000040<br>0.000029<br>0.000029             |
| 0.382<br>0.432<br>0.507                   | 29.67<br>29.71<br>29.71                   | 0.2401<br>0.2715<br>0.3186                     | 0.998<br>1.000<br>1.000                   | -0.03<br>-0.00<br>0.00                         | 257.7<br>291.4<br>341.9                   | 22.64<br>22.68<br>22.68                    |                 | 0.0  | 00008                                     | 0<br>0<br>0       | 699<br>749<br>824<br>899        | 26.96<br>27.03<br>27.03<br>27.02          | 0.0961<br>0.1030<br>0.1133<br>0.1237           | 0.99<br>1.00<br>1.00<br>1.00         | 8 -0.C7<br>0 0.01<br>1 9.02<br>0 0.00                    | 262.5<br>281.2<br>309.4<br>337.6          | 36.94<br>37.03<br>37.04<br>37.01          | 0.00142<br>0.00084<br>0.00000<br>0.00000                       | 0.000011<br>0.000005<br>-0.000003<br>0.000000                        |

| RUN: L                | .02171-1                             | X=22   | . 2-                   | σ.                         |                        |                                                                        |                 |                                 | RUN: 1                | 02171-1                              | X= 34         | . z.                            | 0.                                   |                        |                                          |                 |                                 |
|-----------------------|--------------------------------------|--------|------------------------|----------------------------|------------------------|------------------------------------------------------------------------|-----------------|---------------------------------|-----------------------|--------------------------------------|---------------|---------------------------------|--------------------------------------|------------------------|------------------------------------------|-----------------|---------------------------------|
| U[<br>CF/2=<br>F<br>K | 24.57<br>0.0004<br>0.0040<br>-0.470E | 2      | 01 =<br>D2 =<br>DC = 2 | 0.4357<br>0.2182<br>1.1852 | BETA<br>B<br>P+<br>V0+ | <ul> <li>6.117</li> <li>9.502</li> <li>0.054</li> <li>0.195</li> </ul> | RD3<br>H<br>0 G | 2 = 2757.<br>• 1.997<br>=24.273 | JI<br>CF/2=<br>F<br>K | 23.18<br>0.0003<br>0.0040<br>-0.3318 | 5<br>0<br>-06 | D1 =<br>D2 =<br>DC = 3<br>D99 = | 0.6578<br>0.3263<br>4.9565<br>1.9199 | 8ET)<br>B<br>P+<br>VC+ | - 7.333<br>-11.296<br>- 0.049<br>- 0.212 | RD2<br>H<br>7 G | 2 = 3891.<br>= 2.016<br>=26.783 |
|                       |                                      | •••    |                        |                            |                        |                                                                        | •               |                                 |                       |                                      |               |                                 |                                      |                        |                                          |                 |                                 |
| Y                     | U                                    | Y/DC   | u/UT                   | (0-0()/0                   | i≄ ¥+                  | U+                                                                     | T AU            | TAULAN                          | ¥                     | U                                    | Y/DC          | 0/01                            | (0-01)/0*                            | ٧+                     | U+                                       | TAU             | TAULAN                          |
| 0.018                 | 2.63                                 | 0.0008 | 0.107                  | -43,42                     | 4.7                    | 5.20                                                                   | 0.00095         | 0.000444                        | 0.033                 | 3.45                                 | 0.0009        | 0.149                           | -45.22                               | 7.3                    | 7.92                                     | 0.00107         | 0.000311                        |
| D.023                 | 3.35                                 | 0.0011 | 0.136                  | -42.00                     | 6.0                    | 6.62                                                                   | 0.00110         | 0.000412                        | 0.043                 | 4.30                                 | 0.0015        | 0.186                           | -43,28                               | 9.6                    | 9.86                                     | 0.00125         | 0.000263                        |
| 0.028                 | 4.10                                 | 0.0013 | 0.167                  | -40.51                     | 7.3                    | 8.11                                                                   | 0.00125         | 0.000381                        | 0.053                 | 4,98                                 | 0.0015        | 0.215                           | -41.72                               | 11.8                   | 11.42                                    | 0.00141         | 0.000216                        |
| 0.033                 | 4.72                                 | 0.0016 | 0.192                  | -39.27                     | 8.6                    | 9.34                                                                   | 0.00138         | 0.000325                        | 0.063                 | 5.50                                 | 0.0018        | 0.237                           | -40.53                               | 14.0                   | 12.61                                    | 0.00153         | 0.000150                        |
| 0.040                 | 5.35                                 | 0.0019 | 0.218                  | -38.04                     | 10.4                   | 10.58                                                                  | 0.00151         | 0.000265                        | 0.078                 | 5.9/                                 | 0.0022        | 0.257                           | -39.47                               | 17.4                   | 13.67                                    | 0.00166         | 0.000106                        |
| 0.048                 | 5.94                                 | 0.0023 | 0.242                  | -36.86                     | 12.5                   | 11.75                                                                  | 0.00164         | 0.000208                        | 0.093                 | 6.32                                 | 0.0026        | 0.273                           | -38.65                               | 20.8                   | 14.49                                    | 0.00176         | 0.000081                        |
| 0.058                 | 6.43                                 | 0.0027 | 0.262                  | -35.89                     | 15.1                   | 12.73                                                                  | 0.00177         | 0.000162                        | 0.113                 | 6.74                                 | 0.003Z        | 0.291                           | -37.69                               | 25.3                   | 15.45                                    | 0.00190         | 0.000066                        |
| 0.073                 | 7.15                                 | 0.0034 | 0.291                  | - 34.46                    | 19.0                   | 14.16                                                                  | 0.00195         | 0.000124                        | 0.143                 | 7.06                                 | 0.0041        | 0.304                           | -36.96                               | 32.0                   | 16.18                                    | 0.00203         | 0.00056                         |
| 0.093                 | 7.80                                 | 0.0044 | 0.317                  | -33,19                     | 24.2                   | 15.43                                                                  | 0.00212         | 0.000095                        | 0.193                 | /.68                                 | 0.0055        | 0.331                           | - 35.53                              | 43.7                   | 17.61                                    | 0.00228         | 0.000649                        |
| 0.118                 | 8.34                                 | 0.0056 | 0.340                  | -32.10                     | 30.7                   | 16.52                                                                  | 0.00228         | 0.000076                        | 0.268                 | 1.40                                 | 0.0077        | 0.387                           | -32.60                               | 96.1                   | 20.54                                    | 0.00269         | 0.000043                        |
| 0.158                 | 9.26                                 | 0.0075 | 0.377                  | -30.29                     | 41.1                   | 18.33                                                                  | 0.00252         | 0.000063                        | 0.318                 | 9.32                                 | 0.0091        | 0,402                           | -31.79                               | 71.3                   | 21.35                                    | 0.00284         | 0.000038                        |
| J.198                 | 9.78                                 | 0.0093 | 0.398                  | - 29.26                    | 51.5                   | 19.36                                                                  | 0.00265         | 0.000056                        | 0.368                 | 9.82                                 | 0.0105        | 0.424                           | -30.63                               | 82.5                   | 22.51                                    | 0.00302         | 0.000036                        |
| 0.238                 | 10.50                                | 0.0112 | 0.427                  | -27.84                     | 61.9                   | 20.78                                                                  | 0.00280         | 0.000053                        | 0.418                 | 10.30                                | 0.0119        | 0.444                           | +29.54                               | 93.7                   | 23.60                                    | 0.00317         | 0.00035                         |
| 0.208                 | 11.34                                | 0.0136 | 0.462                  | -26.17                     | 74.9                   | 22.45                                                                  | 0.00295         | 0.000050                        | 0.493                 | 10.89                                | 0.0141        | 0.470                           | -28.16                               | 110.5                  | 24.96                                    | 0.00333         | 0.000036                        |
| 0.338                 | 11.98                                | 0.0160 | 0.466                  | -24.91                     | 87.9                   | 23.71                                                                  | 0.00299         | 0.000050                        | 0.768                 | 11.73                                | 0.0102        | 0.506                           | -20.20                               | 127.4                  | 20.00                                    | 0.00353         | 0.000036                        |
| 0.388                 | 12.80                                | 0.0183 | 0.521                  | -23.29                     | 100.8                  | 25.32                                                                  | 0.00305         | 0.000050                        | 0.643                 | 12.51                                | 0.0184        | 0.540                           | -24.47                               | 144.2                  | 28.67                                    | 0.00366         | 0.000037                        |
| 0.438                 | 13.45                                | 0.0207 | 0.548                  | -22.00                     | 113.6                  | 26.62                                                                  | 0.00299         | 0.000050                        | 0.718                 | 13.27                                | 0.0205        | 0.572                           | -22.72                               | 161.0                  | 30.42                                    | 0.00373         | 0.000037                        |
| 0.488                 | 14.31                                | 0.0230 | 0.583                  | -20.29                     | 126.8                  | 28.33                                                                  | 0.00298         | 0.000049                        | 0.793                 | 13.93                                | 0.0227        | 0.601                           | -21.21                               | 177.9                  | 31.93                                    | 0.00370         | 0.000037                        |
| 0.538                 | 15.07                                | 0.0254 | 0.613                  | -18.80                     | 139.8                  | 29.82                                                                  | 0.00286         | 0.000049                        | 0.868                 | 14.73                                | 0.0248        | 0.635                           | -19.36                               | 194.7                  | 33.76                                    | 0.00368         | 0.000036                        |
| 0.588                 | 15.85                                | 0.0278 | 0.645                  | -17.26                     | 152.8                  | 31.36                                                                  | 0.00274         | 0.000050                        | 0.943                 | 15.52                                | 0.0270        | 0.670                           | -17.56                               | 211.5                  | 35.58                                    | 0.00362         | 0.000036                        |
| 0.635                 | 16.49                                | 0.0301 | 0.671                  | -15.97                     | 165.8                  | 32.64                                                                  | 0.00252         | 0.000050                        | 1.018                 | 16.25                                | 0.0291        | 0.701                           | -15.59                               | 228.4                  | 37.25                                    | 0.00348         | 0.000035                        |
| 0.688                 | 17.33                                | 0.0325 | 0.706                  | -14.31                     | 178.8                  | 34,30                                                                  | 0.00244         | 0.000051                        | 1.093                 | 16.88                                | 0.0313        | 0.728                           | -14.44                               | 245.2                  | 38.70                                    | 0.00322         | 0.000035                        |
| 0.738                 | 18.14                                | 0.0346 | 0.739                  | -12.71                     | 191.8                  | 35.91                                                                  | 0.00236         | 0.000050                        | 1.168                 | 17.68                                | 0.0334        | 0.763                           | -12.62                               | 262.0                  | 40.52                                    | 0.00305         | 0.000034                        |
| 0.788                 | 18.96                                | 0.0372 | 0.772                  | -11.09                     | 204.8                  | 37.53                                                                  | 0.00231         | 0.000048                        | 1.243                 | 18.35                                | 0.0355        | 0.792                           | +11.07                               | 278.9                  | 42.07                                    | 0.00279         | 0.000034                        |
| 0.843                 | 19.77                                | 0.0398 | 0.805                  | -9.49                      | 219.1                  | 39.13                                                                  | 0.00223         | 0.000047                        | 1.343                 | 19.33                                | 0.0384        | 0.834                           | -8.83                                | 301.3                  | 44.31                                    | 0.00255         | 0.000033                        |
| 0.908                 | 20.63                                | 0.0429 | 0.840                  | -7,78                      | 236.0                  | 40.84                                                                  | 0.00212         | 0.000044                        | 1.443                 | 20.24                                | 0.0413        | 0.873                           | -6.75                                | 323.7                  | 46.39                                    | 0.00235         | 0.000030                        |
| 0.968                 | 21.41                                | 0.0457 | 0.072                  | -6.25                      | 251.6                  | 42.37                                                                  | 0.00205         | 0.000041                        | 1.543                 | 21.06                                | 0.0441        | 0.908                           | -4.87                                | 346.2                  | 48.27                                    | 0.00217         | 0.000026                        |
| 1.028                 | 22.30                                | 0.0485 | 0.908                  | -4.49                      | 267.2                  | 44.13                                                                  | 0.00217         | 0.000037                        | 1.643                 | 21.79                                | 2.0470        | 0.940                           | ~3.19                                | 368.6                  | 49.95                                    | 0.00202         | 0.00021                         |
| 1.088                 | 22.95                                | 0.0514 | 0.934                  | -3.20                      | 282.8                  | 45.42                                                                  | 0.00209         | 0.000032                        | 1.743                 | 22.38                                | 0.0499        | 0.965                           | ~1.85                                | 391.1                  | 51.29                                    | 0.00184         | 0.000016                        |
| 1.148                 | 23.50                                | 0.0542 | 0.957                  | -7.10                      | 298.4                  | 46.52                                                                  | 0.00197         | 0.000026                        | 1.843                 | 22.BL                                | 0.0527        | 0.984                           | -0.86                                | 413.5                  | 52.28                                    | 0.00158         | 0.000012                        |
| 1.208                 | 23.96                                | 0.0570 | 0.975                  | -1.20                      | 314.0                  | 47.42                                                                  | 0.00179         | 0.000019                        | 1.993                 | 23.09                                | 0.0570        | 0.996                           | -0.22                                | 447.2                  | 52.92                                    | 0.00100         | 0.000006                        |
| 1.283                 | Z4.36                                | 0.0606 | 0.991                  | -0.42                      | 333.5                  | 48.20                                                                  | 0.00146         | 0.00013                         | 2.143                 | 23.19                                | 0.0613        | 1.000                           | 0.01                                 | 480.8                  | 53.15                                    | 0.00045         | 0.000002                        |
| 1.383                 | 24.53                                | 0.0653 | 0.999                  | -0.07                      | 359.5                  | 48.55                                                                  | 0.00072         | 0.000005                        | 2 • 29 3              | 23.20                                | 0.0656        | 1.001                           | 0.03                                 | 514.5                  | 53.17                                    | 0.00000         | -0.000001                       |
| 1.483                 | 24.58                                | 0.0700 | 1.001                  | 0.03                       | 385.5                  | 48.65                                                                  | 0.00000         | -0.000000                       | 2.493                 | 23.18                                | 0.0713        | 1.000                           | 0.00                                 | 559.4                  | 53.14                                    | c.00000         | 0.000000                        |
| 1.608                 | 24.57                                | 0.075  | 1.000                  | 0.00                       | 417.9                  | 48.62                                                                  | 0.00000         | 0.000000                        |                       |                                      |               |                                 |                                      |                        |                                          |                 |                                 |

1.1.1.1.6.00

| RUN: 1 | 02171-1 | X=46   | . T=   | σ.       |       |         |         |           | R UN 1 | 102171-1 | X=58.  | . Z= (  | ٥.        |                |           |          |           |
|--------|---------|--------|--------|----------|-------|---------|---------|-----------|--------|----------|--------|---------|-----------|----------------|-----------|----------|-----------|
|        |         |        |        |          |       |         | 8.03    | . 4084    |        | 31 44    |        | AL - 1  |           |                |           | 803      |           |
|        | 22-13   |        | 01     | 0.8801   | 0014  | -17 045 |         | - 7 000   |        | 21.90    | -      |         | L. 0738   |                | - 14 718  |          | - 1 000   |
| CF/2=  | 0.0003  | 1      | 02 -   | 0.4380   | 8     | -12.983 |         | - 2.009   | CF/2*  | 0.0002   |        | 02 -    |           |                | - 14. 210 |          |           |
| F =    | 0.0040  | 2      | UC =5  | 0.0180   | P+    | - 0.046 | 8 6     | *28,551   |        | 0.0040   | ·      | DC =6   | 5.1528    |                | - 0.044   | 1 6      | -24.130   |
| K =    | -0.2556 | - 06   | 099 =  | 2.5698   | 40+   | = 0.2Z8 | ,       |           | × •    | -0.209E  | -06    | D44 • 3 | 3.2329    | 40+            | . 0.238   | 8        |           |
|        |         |        |        |          |       |         |         |           |        |          |        |         |           |                |           |          |           |
| Y      | υ       | Y/DC   | 0701   | (0-01)70 | * Y+  | U+      | TAU     | T AUL AM  | ۲      | υ        | Y/DC   | L/UI    | (0-01)/00 | ٧+             | U+        | T AU     | TAULAN    |
| 0.043  | 3.55    | 0.009  | 0.160  | -47.73   | 8.5   | 9.11    | 0.00108 | 0.000239  | 0.042  | 3.07     | 0.0006 | 0.143   | -51.02    | 7.8            | 8.53      | 0.00095  | 0.000236  |
| 0.053  | 3.97    | 0.0011 | 0.179  | -46.63   | 10.6  | 10.20   | 0.00118 | 0.000216  | 0.052  | 3.86     | 0.0008 | 0.180   | -48.83    | 9.6            | 10.71     | 0.00112  | 0.000215  |
| 0.068  | 4.58    | 0.0014 | 0.207  | -45.07   | 13.6  | 11.76   | 0.00133 | 0.000183  | 0.067  | 4.38     | 0,0010 | 0.204   | -47.39    | 12.4           | 12.15     | 0.00125  | 0.000183  |
| 0.088  | 5.38    | 0.0018 | 0.243  | -43.0Z   | 17.6  | 13.81   | 0.00153 | 0.000108  | 0.087  | 4.71     | 0.0013 | 0.220   | -46.47    | 16.1           | 13.07     | 0.08135  | 0.000103  |
| 0.113  | 5.71    | 0.0023 | 0.258  | -42.17   | 22.6  | 14.66   | 0.00164 | 0.00081   | 0.117  | 5.48     | 0.0018 | 0.255   | -44.34    | 21.7           | 15.21     | 0.00156  | 0.000069  |
|        | 4 75    |        |        | - 10 6 2 | 10 4  | 17 20   |         | 0 000059  | a 173  | 4.17     |        |         | -43 57    | 31 0           | 14 08     | 0.00178  | 0.000048  |
| 34133  | 8.10    | 0.0031 | 0.303  | - 39.03  | 42 7  | 19 60   | 0.00142 | 0.000043  | 0.1/2  | 6.12     | 0.0028 | 0.205   | -40 77    | 47 1           | 14 77     | 0.00110  | 0.000040  |
| 0.213  | 1.2     | 0.0043 | 0.327  | -30.23   |       | 10.07   | 0.00216 | 0.000075  | 0.221  | 5.11     | 0.0035 | 0.313   |           |                | 10.11     | 0.00114  | 0.000031  |
| 0.218  | 1.04    | 0.0056 | 0.345  |          | 27.1  | 19.03   | 0.00236 | 0.000033  | 0.287  | 1.09     | 0.0044 | 0.330   | -34.87    |                | 19.00     | 0.00210  | 0.0000000 |
| 0.353  | 8.55    | 0.0071 | 0.306  | -34.80   | 10.1  | 21.92   | 0.00267 | 0.000031  | 0.362  | 1.61     | 0.0056 | 0.351   | - 38.20   | D1-1           | 21.28     | 0.00240  | 0.000026  |
| 0.428  | 8.91    | 0.0086 | 0.402  | - 33. 46 | 87.7  | 22.81   | 0.00284 | 0.000030  | 0.437  | 8.05     | 0.0067 | 0.375   | -37.21    | 81.0           | 22.33     | 0.00238  | 0.000028  |
| 0.503  | 9.43    | 0.0101 | 0.476  | +37.61   | 100-7 | 24.23   | 0.00304 | 0.000028  | 9,512  | 8.44     | 0.0079 | 0.393   | -36.12    | 94.9           | 23.42     | 0.00276  | 0.000027  |
| 0 403  | 10 12   | 0 0171 | 0.457  | -30.86   | 120.8 | 25.99   | 0.00327 | 0.000027  | 0.612  | 9.10     | 4200.0 | 0.476   | - 36. 78  | 113.5          | 25.26     | 0.00303  | 0.003023  |
| 0.003  | 10 84   | 0 0141 | 0 4 91 | -78.93   | 140.8 | 27.90   | 0 00348 | 0.000028  | 0.012  | 0 67     | 0.0109 | 0 448   | -32.86    | 112.0          | 26.69     | 0.00325  | 0.000024  |
| 0.103  | 11 20   | 0.0141 | 0.471  | - 37 83  | 140.0 | 79.00   | 0.00156 | 0.000027  | 0.712  | 10 41    | 0.0135 | 0.440   | -30 44    | 160 6          | 24 88     | 0 00352  | 0.000023  |
| 3.803  | 11.24   | 0.0101 | 0.510  | -21.03   | 180.0 | 21 46   | 0.00373 | 0.000027  | 0.012  | 10.41    | 0.0125 | 0.400   | - 30,00   |                | 20.17     | 0.000000 | 0.000025  |
| 0.903  | 14.63   | 0.0101 | 0.555  | -27.70   | 100.7 | ,,,,,   | 0.00371 |           | 0.437  | 10.31    | 0.0144 | 0.470   | - 30 - 38 |                | 2         |          |           |
| 1.003  | 17.93   | 0.0201 | 0.584  | -23.63   | 200.9 | 33.20   | 0.00380 | 0.000028  | 1.062  | 11.63    | 0.0163 | 0.542   | -27.26    | 196.9          | 32.28     | 0.00387  | 0.000024  |
| 1.103  | 13.43   | 0.0221 | 0.607  | -22.33   | 220.9 | 34.50   | 0.00373 | 0.000030  | 1.147  | 12.06    | 0.0182 | 0.562   | -26.08    | 220.0          | 33.46     | 0.00391  | 0.000024  |
| 1.203  | 14.17   | 0.0241 | 0.640  | -20.44   | 241.0 | 36.39   | 0.00372 | 0.000030  | 1.112  | 13.06    | 0.0201 | 0.609   | -23.29    | 243.2          | 36.25     | 0.00412  | 0.000024  |
| 1 303  | 15.05   | 0.0261 | 0.680  | +18,19   | 261.0 | 38.64   | 0.00373 | 0.000030  | 1.437  | 13.67    | 0.0221 | 0.637   | -21.42    | 266.4          | 37.93     | 0.00409  | 0.000023  |
| 1 603  | 15.86   | 0.0280 | 0.717  | -16.10   | 281.0 | 40.74   | 0.00367 | 0.000029  | 1.54.2 | 16.20    | 0.0740 | 0.662   | -20.14    | 289.6          | 39.40     | 0.00397  | 0.000023  |
|        | 17100   | 010200 |        |          |       |         |         |           |        | 14.20    |        |         | 2072      |                |           | ••••     |           |
| 1,503  | 16.54   | 0.0300 | 0.747  | -14.36   | 301.0 | 42.47   | 0.00347 | 0.00027   | 1.712  | 15.05    | 0.0263 | 0.701   | -17.78    | 317.4          | 41.76     | 0.00387  | 0.000022  |
| 1.603  | 17.24   | 0.0320 | 0.779  | -12.56   | 321.1 | 44.27   | 0.00324 | 0.000026  | 1.862  | 15.95    | 0.0286 | 0,743   | -15.29    | 345.2          | 44.25     | 0.00373  | 0.000023  |
| 1.703  | 17.87   | 0.0340 | 0.807  | -10.95   | 341.1 | 45.89   | 0.00293 | 0.000025  | 2.012  | 16.65    | 0.0309 | 0.776   | -13.34    | 373.0          | 46.21     | 0.00341  | 0.003322  |
| 1.803  | 18.39   | 0.0360 | 0.831  | -9.60    | 361.1 | 47.24   | 0.00254 | 0.000025  | 2.217  | 17.76    | 0.0340 | 0.828   | -10.27    | 410.1          | 49.27     | 0.00299  | 0.000021  |
| 1.903  | 19.07   | 0.0380 | 0.862  | -7.86    | 381.2 | 48.97   | 0.00230 | 0.000024  | 2.412  | 18.01    | 0.0370 | 0.877   | -7.34     | 447.1          | 52.21     | 0.00254  | 0.000019  |
| 1 00 1 | 10 77   | 0 0400 | n. 803 | -4.07    | 401.2 | 50.76   | 0 00214 | 0.000022  | 1 41 1 | 10 42    | 0 0401 | 0.014   | -5 11     | 484.7          | 54 . 43   | 7.0200   | 0.000035  |
| 2.003  | 19471   | 0.0400 | 0.073  |          | 471 7 | 57 14   | 0.00214 | 0.000020  | 2.012  | 19.02    | 0.0401 | 0.414   | -2.14     | 6 71 7         | 64 74     | 0.00140  | 0.000013  |
| 2.103  | 20.50   | 0.0420 | 0.717  |          |       | 57 54   | 0.00188 | 0.000017  | 2.812  | 20.43    | 0.0432 | 0.933   | -1.45     | 56113<br>668 4 | 50.79     | 0.00104  | 0.000012  |
| 2.203  | 20.84   | 0.0440 | 0,942  |          |       | 55.74   | 0.00171 | 0.000017  | 3.012  | 20.43    | 0.0462 | 0.4/6   | -1.93     | 220.4          | 50.09     | 0.00126  | 0.000009  |
| 2.353  | 21.37   | 0.0470 | 0.966  | -1.94    | 4/1.3 | 54.89   | 0.00134 | 0.000013  | 3.312  | 21.35    | 0.0508 | 0.995   | -0.29     | 014.0          | 34.26     | 0.00072  | 0.000004  |
| 2.503  | 21.81   | 0.0500 | 0.986  | -0.81    | 501.3 | 20+0C   | 0.00107 | 0.000009  | 3.612  | 21.45    | 0.0555 | 0.999   | -0.03     | 064.6          | 34.52     | 0.00025  | J. 000000 |
| 2.703  | 22.10   | 0.0540 | 0.999  | -0.08    | 541.4 | 56.76   | 0.00063 | 0.000004  | 3.912  | 21.46    | 0.0601 | 1.000   | 0.00      | 725.2          | 59.55     | 0.00000  | 0.000000  |
| 3.003  | 22.15   | 0.0600 | 1.001  | 0.06     | 601.5 | 56.89   | 0.00000 | -0.000000 |        |          |        |         |           |                |           |          |           |
| 3.303  | 22.13   | 0.0660 | 1.000  | 0,00     | 661.6 | 56.83   | 0.00000 | 0.000300  |        |          |        |         |           |                |           |          |           |

| RUN: 1                                    | 102171-1                                  | X=70                                           | . z= (                                    |                                                |                                           |                                           |                                                     |                                                                      | RUN:                                      | 102171-1                                  | X= 82                                          | . z.                                      | σ.                                              |                                           |                                           |                                                     |                                                          |
|-------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|-------------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|
| UI =<br>CF/Z=<br>F =<br>K =               | 20.97<br>0.0002<br>0.0035<br>-0.1798      | 6<br>9<br>- 06                                 | 01 = 1<br>02 = 0<br>0C =80<br>099 = 3     | .3042<br>.6625<br>.6323<br>.9518               | 8ETA<br>8<br>P+<br>V0+                    | = 9.625<br>= 15.250<br>= 0.042<br>= 0.246 | PD2<br>H<br>3 G<br>7                                | = 7146.<br>≈ 1.969<br>=30.420                                        | UI =<br>CF/2≭<br>F ■<br>K ■               | 27.48<br>0.0002<br>0.0040<br>-0.160E      | 5<br>0<br>-06                                  | D1 =<br>D2 = 1<br>DC = 9<br>D99 = 1       | 1.5008<br>0.7789<br>5.7636<br>4.7414            | ВЕТЛ<br>В<br>Р+<br>V0+                    | -10.301<br>-16.287<br>- 0.041<br>- 0.255  | RD2<br>6 G                                          | 2 = 8207.<br>= 1.927<br>= 30.692                         |
| ۲                                         | U                                         | ¥/0C                                           | 0701                                      | (0-01170                                       | • ¥+                                      | U+                                        | TAU                                                 | TAULAN                                                               | ۷                                         | U                                         | ¥/DC                                           | 9701                                      | (0-011/04                                       | ¥+                                        | U+                                        | TAU                                                 | TAULAN                                                   |
| 0.048<br>0.058<br>0.073<br>0.093<br>0.133 | 3.43<br>3.96<br>4.27<br>4.57<br>5.16      | 0.0006<br>0.0007<br>0.0009<br>0.0012<br>0.0012 | 0.164<br>0.189<br>0.204<br>0.218<br>0.246 | -51.71<br>-50.15<br>-49.23<br>-48.34<br>-46.61 | 8.4<br>10.1<br>12.7<br>16.2<br>23.2       | 10.11<br>11.67<br>12.59<br>13.48<br>15.21 | 0.00100<br>0.00112<br>0.00120<br>0.00130<br>0.00148 | 0.000215<br>0.000195<br>0.000164<br>0.000079<br>0.000058             | 0.051<br>0.061<br>J.076<br>0.101<br>0.136 | 2.83<br>3.30<br>3.80<br>4.65<br>5.20      | 0.0005<br>0.0006<br>0.0008<br>0.0011<br>0.0011 | 0.138<br>0.161<br>0.186<br>0.227<br>0.254 | -55.00<br>-53.54<br>-51.96<br>-49.32<br>-47.61  | 8.4<br>10.1<br>12.5<br>16.7<br>22.5       | 8.80<br>10.27<br>11.85<br>14.49<br>16.20  | 0.00089<br>0.00100<br>0.00112<br>0.00133<br>0.00149 | 0.000208<br>0.000193<br>0.000170<br>0.000106<br>0.000070 |
| 0.183<br>0.258<br>0.333<br>0.408<br>0.508 | 5.71<br>6.46<br>7.15<br>7.53<br>7.78      | 0.0023<br>0.0032<br>0.0041<br>0.0051<br>0.0063 | D.273<br>0.308<br>0.341<br>D.359<br>0.371 | -44.97<br>-42.77<br>-40.73<br>-39.62<br>-38.68 | 31.9<br>45.0<br>58.1<br>71.2<br>88.6      | 16.85<br>19.05<br>21.10<br>22.21<br>22.94 | 0.00168<br>0.00195<br>0.00220<br>0.00239<br>0.00258 | 0.000048<br>0.000035<br>0.000032<br>0.000027<br>0.000023             | 0.186<br>0.261<br>0.361<br>0.461<br>0.561 | 5.89<br>6.32<br>6.77<br>7.73<br>7.90      | 0.0019<br>0.0027<br>0.0038<br>0.0048<br>0.0059 | 0.287<br>0.309<br>0.330<br>0.378<br>0.386 | -45.47<br>-44.12<br>-42.73<br>-39.71<br>-39.20  | 30.7<br>43.1<br>59.6<br>76.1<br>92.6      | 18.34<br>19.69<br>21.08<br>24.10<br>24.61 | 0.00170<br>0.00189<br>0.00212<br>0.00245<br>0.00259 | 0.000049<br>0.000034<br>0.000027<br>0.000025<br>0.000024 |
| 0.608<br>0.708<br>0.808<br>0.908<br>1.058 | 8.83<br>9.00<br>9.42<br>9.71<br>10.36     | D.0075<br>0.0088<br>0.0100<br>0.0113<br>0.0131 | 0.421<br>0.429<br>0.449<br>0.463<br>0.494 | -35.78<br>-35.29<br>-34.05<br>-33.18<br>-31.28 | 106.1<br>123.5<br>141.0<br>158.4<br>184.6 | 26.04<br>26.53<br>27.77<br>28.64<br>30.54 | 0.00295<br>0.00310<br>0.00330<br>0.00346<br>0.00371 | 0.000020<br>0.000019<br>0.000020<br>0.000018<br>0.000020             | 0.661<br>3.761<br>0.861<br>0.961<br>1.061 | 8.36<br>8.94<br>9.44<br>9.37<br>9.87      | 0.0069<br>0.0079<br>0.0090<br>0.0100<br>0.0111 | 0.408<br>0.436<br>0.461<br>0.457<br>0.482 | -37.75<br>- 35.96<br>-34.41<br>-34.63<br>-33.07 | 109.1<br>125.7<br>142.2<br>158.7<br>175.2 | 26.06<br>27.85<br>29.40<br>29.18<br>30.74 | 0.00278<br>0.00299<br>0.00319<br>0.00327<br>0.00352 | 0.000019<br>0.000017<br>0.000017<br>0.000017<br>0.000017 |
| 1.208<br>1.358<br>1.508<br>1.708<br>1.908 | 11.21<br>11.70<br>12.49<br>13.26<br>14.14 | 0.0150<br>0.0168<br>0.0187<br>0.0212<br>0.0237 | 0.535<br>0.558<br>0.596<br>0.632<br>0.674 | -28.77<br>-27.32<br>-25.01<br>-22.73<br>-20.13 | 210.8<br>236.9<br>263.1<br>298.0<br>332.9 | 33.05<br>34.51<br>36.82<br>39.09<br>41.69 | 0.00397<br>0.00407<br>0.00422<br>0.00425<br>0.00420 | 0.000020<br>0.000020<br>0.000019<br>0.000019<br>0.000019             | 1.211<br>1.361<br>1.511<br>1.711<br>1.911 | 10.39<br>11.05<br>11.47<br>12.23<br>12.77 | 0.0126<br>0.0142<br>0.0158<br>0.0179<br>0.0200 | 0.507<br>0.540<br>0.560<br>0.597<br>0.624 | -31.44<br>-29.38<br>-28.09<br>-25.71<br>-24.02  | 200.0<br>224.7<br>249.5<br>282.5<br>315.5 | 32.37<br>34.43<br>35.72<br>38.10<br>39.79 | 0.00377<br>0.00395<br>0.00397<br>0.00404<br>0.00402 | 0.000016<br>0.000017<br>0.000016<br>0.000015<br>0.000015 |
| 2.108<br>2.308<br>2.508<br>2.808<br>3.108 | 14.97<br>15.74<br>16.83<br>18.00<br>19.11 | 0.0261<br>0.0286<br>0.0311<br>0.0348<br>0.0385 | 0.714<br>0.751<br>0.802<br>0.858<br>0.911 | -17.69<br>-15.40<br>-12.21<br>-8.75<br>-5.49   | 367.8<br>402.7<br>437.6<br>489.9<br>542.3 | 44.13<br>46.42<br>49.61<br>53.07<br>56.33 | 0.00398<br>0.00364<br>0.00344<br>0.00272<br>0.00198 | 0.000019<br>0.000019<br>0.000018<br>0.000018<br>0.000014<br>0.000013 | 2.111<br>2.311<br>2.511<br>2.811<br>3.111 | 13.29<br>14.19<br>15.02<br>15.90<br>16.99 | 0.0220<br>0.0241<br>0.0262<br>0.0294<br>0.0325 | 0.649<br>0.693<br>0.733<br>0.776<br>0.830 | -22.42<br>-19.61<br>-17.01<br>-14.27<br>-10.87  | 348.6<br>381.6<br>414.6<br>464.2<br>513.7 | 41.39<br>44.20<br>46.80<br>49.54<br>52.94 | C.00399<br>0.00407<br>0.00396<br>0.00339<br>0.00287 | 0.000016<br>0.000017<br>0.000017<br>0.000016<br>0.000014 |
| 3.408<br>3.708<br>3.908<br>4.308          | 19.84<br>20.53<br>20.73<br>20.97          | 0.0423<br>0.0460<br>0.0485<br>0.0534           | 0.946<br>0.979<br>0.989                   | -3.32<br>-1.28<br>-0.69<br>0.00                | 594.6<br>646.9<br>681.8<br>751.6          | 58.50<br>6C.54<br>61.13<br>61.62          | 0.00117<br>0.00060<br>0.00050<br>0.00000            | 0.000009<br>0.000007<br>0.000005                                     | 3.411<br>3.711<br>4.911                   | 17.91<br>19.03<br>20.48                   | 0.0356<br>0.0388<br>0.0513                     | 0.875<br>0.929<br>1.000                   | -0.00<br>-4.52<br>0.00                          | 563.2<br>612.8<br>810.9                   | 55.81<br>59.29<br>63.81                   | 0.00220<br>0.00168<br>0.00000                       | 0.000012<br>0.000010<br>0.000000                         |

| QUN: 1 | 02171-1 | X=90.  | , Z=  | ō.        |              |             |
|--------|---------|--------|-------|-----------|--------------|-------------|
| UT =   | 20.27   |        | DL -  | 1.6225    | BETA=11.319  | ADZ = 8765. |
| CF/2=  | 0.0002  | 4      | 02 •  | 0.8427    | 8 =16.686    | H = 1.925   |
| F =    | 0.0039  | 9      | OC -  | 104.9     | P+ = 0.0433  | G =31.083   |
| K .    | -0.160E | -06    | 099 - | 4.8166    | ¥0+ = 0.2580 |             |
| ۲      | U       | Y/DC   | 0/01  | 10-011/04 | • ¥+ U+      | TAULAM      |
| 0.055  | 3.47    | 0.0005 | 0.171 | -53.58    | 8.8 11.09    | 0.000160    |
| 3.065  | 3.66    | 0.0006 | 0.180 | -53.00    | 10.4 11.67   | 0.000154    |
| 0.085  | 4.54    | 0.0008 | 0.224 | -50.17    | 13.7 14.50   | 0.000142    |
| 0.115  | 4.74    | 0.0011 | 0.234 | -49.56    | 18.5 15.11   | 0.000074    |
| 0.215  | 5.86    | 0.0020 | 0.289 | -45.95    | 34.6 18.71   | 0.000041    |
| 0.415  | 7.18    | 0.0040 | 0.354 | -41.76    | 66.9 22.91   | 0.000027    |
| 0.615  | 7.78    | 0.0039 | 0.384 | -39.85    | 99.1 24.82   | 0.000020    |
| 0.815  | 8.82    | 0.0078 | 0.435 | -36.51    | 131.4 28.16  | 0.000018    |
| 1.115  | 9.98    | 0.0106 | 0.493 | -32.81    | 179.7 31.86  | 0.000017    |
| 1.415  | 10.39   | 0.0135 | 0.513 | -31.51    | 228.1 33.16  | 0.000016    |
| 1.815  | 11.89   | 0.0173 | 0.587 | - 26.72   | 292.6 37.94  | 0.000015    |
| 2.215  | 13.19   | 0.0211 | 0.651 | -22.59    | 357.0 42.07  | 0.000015    |
| 2.615  | 14.35   | 0.0249 | 0.708 | -18.88    | 421.5 45.79  | 0.003015    |
| 3.015  | 15.65   | 0.0287 | 0.772 | -14.73    | 486.0 49.94  | 0.000014    |
| 3.415  | 16.90   | 0.0325 | 0.834 | -10.73    | 550.5 53.94  | 0.000013    |
| 3.915  | 18.20   | 0.0373 | 0.895 | -6.58     | 631.1 58.09  | 0.000012    |
| 4.915  | 20.27   | 0.0468 | 1.000 | C.00      | 792.3 64.67  | 0.000000    |

.

| RUN: | 110971-1                    | . X= 2 | . <i>t</i> • | <b>J</b> . |       |          |            | RUNI    | 110971-1 | X=10   | . 2-   | •.                |        |         |           |           |
|------|-----------------------------|--------|--------------|------------|-------|----------|------------|---------|----------|--------|--------|-------------------|--------|---------|-----------|-----------|
| UI   | 29.13                       |        | D1 -         | 8.0561     | BETA  | - 0.219  | AD2 - 541. | 1/1     | 25.70    |        | o1 -   |                   |        |         |           |           |
| CF/2 | <ul> <li>0.0026</li> </ul>  | 9      | D2 =         | 8.0359     | 8     | * 0.000  | H = 1.562  | CE/20   | 0 0013   |        | 02 -   |                   | 001    |         |           | 2 . 1024. |
| F    | <ul> <li>0.0000</li> </ul>  | 10     | DC -         | 1.0802     | P+    | = 0.0050 | 6 = 6.933  | F .     | 0.0000   | 10     |        | 1 0443            |        | - 0.000 |           | - 1.607   |
| ĸ    | <ul> <li>-0.699E</li> </ul> | -06    | D99 *        | 8.3064     | ¥0+   | - 0.0000 |            | k i     | -0.1775  | -05    | 000 -  | 2. 7002<br>B 5144 |        | - 0.011 | 2 6       | = 9.052   |
|      |                             |        |              |            |       |          |            |         | -0.1276  | -05    |        |                   | ¥0+    | = 0.000 | 0         |           |
| ۲    | U                           | A/DC   | U/UI         | 40-01170   | • Y+  | U♦       | TAULAH     | ۲       | v        | YADC   | 0701   | (U-U[ }/U         | ¥+     | U+      | TAU       | TAULAH    |
| 0.00 | 4 4.97                      | 0.0040 | 0.171        | -15.98     | 3.4   | 3.29     | 0.002143   | 0.005   | 3.47     | 0.0017 | 0.135  | -20 73            |        | 3 74    | A         | 0 001 77/ |
| 0.00 | 5 5.55                      | 0.0049 | 0.190        | -15.60     | 4.1   | 3.67     | 0.002056   | 0.004   | 3.98     | 0.0020 | 0.155  | -20.26            |        | 3. 24   | 0.00102   | 0.001/36  |
| 0.00 | 6 6.09                      | 0.0058 | 0.209        | -15-24     | 4.9   | 4.03     | 0.001968   | 0.008   | 4.92     | 0.0027 | 0.191  | -10 18            |        | 3.11    | 0.00183   | 0.001660  |
| 0.00 | 6 7.80                      | 0.0077 | 0.268        | -14-11     | 6.5   | 5.16     | 0.001767   | 0.010   | 5.95     | 0.0034 | 0. 231 | -18.43            |        | 5.55    | 0.00100   | 0.001313  |
| 0.01 | 9.35                        | 0.0095 | 0.321        | -13.08     | 8.1   | 6.18     | 0.001681   | 0.012   | 6.78     | 0.0040 | 0.264  | -17.45            |        | 4 17    | 0.00140   | 0.001312  |
|      |                             |        |              |            |       |          |            |         |          |        |        |                   |        | 4.32    | A.(.)[ 43 | 0.0011/6  |
| 0.01 | 2 11.01                     | 0.0114 | 0.378        | -11.98     | 9.6   | T. 28    | 0.001519   | 0.015   | 8.04     | 0.0051 | 0.313  | -14.47            |        | 7 60    |           | 0.001011  |
| 0.01 | 4 12.16                     | 0.0132 | 0.417        | -11.22     | 11.2  | 8.04     | 0.001311   | 0.018   | 9.00     | 0.0061 | 0-350  | -15.58            | 10.0   | 1 10    | 0.00197   | 0.001023  |
| 0.01 | 6 13.48                     | 0,0151 | 0.463        | -10.35     | 12.0  | 8.91     | 0.001121   | 0.021   | 9.74     | 0.0071 | 0.379  | -14 80            | 11 4   | 0.00    | 0.00200   | 0.000851  |
| 0.01 | 8 14.38                     | 0.0169 | 0.493        | -9.76      | 14.3  | 9.51     | 0.000925   | 0.025   | 10.83    | 0.0084 | 0.472  | -13.87            | 12 0   | 10.11   | 0.00204   | 0.000727  |
| 0.02 | 1 15.40                     | 0.0197 | 0.529        | -9.08      | 16.7  | 10.18    | 0.000734   | 0.029   | 11 41    | 0 0000 | 0 444  | -12.33            | 14 1   | 10.11   | 0. 10208  | 0.000574  |
|      |                             |        |              |            |       |          |            |         |          |        |        | -13433            | 10.1   | 10.04   | 0.00211   | 0.000472  |
| 0.02 | 4 16.22                     | 0.0225 | 0.559        | -8.50      | 19.0  | 10.77    | 0.000582   | 0.034   | 17.76    | 0.0115 | 0 477  | -13 64            |        | 11 44   |           |           |
| 0.OZ | 7 16.80                     | 0.0253 | 0.577        | ~8.16      | 21.4  | 11.11    | 0.000490   | 0.018   | 17.77    | 0 0131 | A 1.04 | -12.94            | 10.9   | 11. 77  | 0+00215   | 0.000373  |
| 0.03 | 17.90                       | 0.0299 | 0.614        | -7.43      | 25.3  | 11.84    | 0.000388   | 0.045   | 12 78    | 0.0151 | 0.449  | -12-11            | 21.0   | 11.80   | 0.0021#   | 0.000300  |
| 0.03 | 7 18.63                     | 0.0345 | 0.640        | -6.94      | 29.2  | 12.32    | 0.000312   | 0.063   | 13 07    | 0.0132 | 0.517  | -11.30            | 23.0   | 12.34   | 0.00222   | 0.000248  |
| 0.04 | 2 19.29                     | 0.0392 | 0.662        | -6.51      | 33.1  | 12.76    | 0.000264   | 0.063   | 14 40    | 0.01/4 | 0.540  | -11.04            | 27.    | 12.94   | 0.00225   | 0.000193  |
|      |                             |        |              |            |       |          |            | 0.005   | 14.47    | 0.0212 | 0.304  | -10.95            | 34.9   | 13.92   | 0.00229   | 0.000158  |
| 0.04 | Q 20.00                     | 0.0456 | 0.687        | -6.04      | 38.6  | 13.23    | 0.000210   | 0.077   | 15 .06   |        |        |                   |        |         |           |           |
| 0.05 | 20.55                       | 0.0530 | 0.705        | -5.68      | 44.8  | 13.59    | 0.000175   | 0.071   | 19.09    | 0.0200 | 0.281  | -4.40             | 42+7   | 14.08   | 0.00232   | 0.000127  |
| 0.05 | 7 21.25                     | 0.0623 | 0.729        | -5.21      | 52.7  | 14.05    | 0.000151   | 0.072   | 19.00    | 0.0310 | 0.010  | -9.35             | 51+0   | 14.62   | 0.00233   | 0.000109  |
| 0.07 | 7 21.92                     | 0.0716 | 0.753        | -4.77      | 60.5  | 14.50    | 0.000136   | 0.107   | 14.10    | 0.0361 | 0.024  | -8.90             | 59.3   | 15.07   | 0.00233   | 0.000100  |
| 0.08 | 7 22.46                     | 0.0808 | 0.771        | -4.4Z      | 68.3  | 14.85    | 0.000125   | 0.127   | 10.01    | 0.0428 | 0.834  | -8.30             | 10.4   | 15.68   | 0.00230   | 0.000093  |
|      |                             |        |              |            |       |          |            | 0-124   | 11.94    | 0.0529 | 0.681  | -7.49             | 87.1   | 16.48   | C.CC223   | 0.000067  |
| 0.10 | 2 23.25                     | 0.0947 | 0.798        | -3.89      | 80.0  | 15.38    | 0.000112   | 0.197   | 14.85    | 0.0664 | 0 714  | -4 30             | 100.3  | 17 60   |           |           |
| 0.11 | 7 23.93                     | 0.1086 | 0.021        | -3.44      | 91.B  | 15.83    | 0.000100   | 0.237   | 10.84    | 0 0700 | A 773  | - 6 4 5           | 107.5  | 17. 29  | 0.00204   | 0.000082  |
| 0.13 | 7 24.78                     | 0.1271 | 0.850        | -2.88      | 107.4 | 16.38    | 0.000090   | 0.273   | 20.93    | 0.0934 | 0.814  |                   | 15142  | 10.09   | 0.00188   | 0.000076  |
| 0.15 | 7 25.53                     | 0.1456 | 0.876        | -2.38      | 123.1 | 16.89    | 0.000060   | 0.317   | 21.47    | 0 1049 | 0 851  | -1 57             |        | 10.00   | 0.00169   | 0.000072  |
| 0.18 | 2 26.35                     | 0.1688 | 0.904        | -1.84      | 142.6 | 17.42    | 0,000069   | 0.357   | 22.74    | 0.1204 | 0.071  | - 3 74            | 108 0  | 20.40   | 0.00144   | 0.000086  |
|      |                             |        |              |            |       |          |            |         |          |        | 0.000  | - 24 74           | 1 90.0 | 21.23   | 0+00135   | 0+000059  |
| 0.20 | 3 27.12                     | 0.1919 | 0.931        | -1.33      | 162.2 | 17.93    | 0.000057   | 0.397   | 23.59    | 0 1334 |        | -1 07             |        | 33.00   |           |           |
| 0.23 | 7 27.86                     | 0.2197 | 0.956        | -0.84      | 185.7 | 18.42    | 0.000043   | 0 447   | 74 48    | A 1607 | 0. 510 | - 1. 97           | 220.2  | 22.00   | 4.00121   | 0.000051  |
| 0.26 | 7 28.41                     | 0.2475 | 0.975        | -0.48      | 209.1 | 18.79    | 0.000031   | 0.407   | 25 14    | 0 1474 | 0.451  | -1.17             |        | 22.81   | 0.09110   | 0.000039  |
| 0.30 | 7 28.85                     | 0.2845 | 0.990        | -0.19      | Z40.4 | 19.08    | 0.000019   | 0 547   | 26 61    | 0.10/0 | 0.478  | -0.52             |        | 23.43   | e+co19r   | 0.000027  |
| 0.35 | 7 29.08                     | 0.3308 | 0.998        | -0.03      | 279.6 | 19.23    | 0.000007   | 0 4 7 7 | 25.72    | 0.1075 | 1 000  | -0.18             | 303.4  | 23.84   | 0.00092   | 0.000018  |
|      |                             |        |              |            |       |          |            | 0.024   | 23.10    | 0.2041 | 1.000  | -0.00             | 343.0  | 23.97   | 0.00040   | 0.000006  |
| 0.40 | 7 29.13                     | 0.3771 | 1.000        | 0.00       | 318.7 | 19.27    | -0.000000  | 0 407   | 35 33    |        |        |                   |        |         |           |           |
| 0.45 | 7 29.13                     | 0.4234 | 1.000        | 0.00       | 357.8 | 19.27    | 0.000000   | 0.697   | 25.72    | 0.2350 | 1.001  | 0+02              | 386.6  | 23.99   | 0.0000    | 0-000001  |
|      |                             |        |              |            |       |          |            | 0.794   | 23.10    | 0.2687 | 1.000  | 0.00              | 42.1   | 23.97   | 0.00030   | 0.000000  |
|      |                             |        |              |            |       |          |            |         |          |        |        |                   |        |         |           |           |

| RUN: 1 | 10971-1 | X=22   | . I-  |          |       |         |          |          | RUN   | 110971- | 1 X=34 | . z=  | 0.        |       |         |         |          |
|--------|---------|--------|-------|----------|-------|---------|----------|----------|-------|---------|--------|-------|-----------|-------|---------|---------|----------|
| UI =   | 22.31   |        | 01 -  | D.2478   | BETA  | 1.559   | RDZ      | - 1727.  | UI    | = 20.53 |        | 01 -  | 0.3628    | BETA  | - 1.626 | R D 2   | - 2331.  |
| CF/2.  | 0.0012  | 2      | 02    | 8.1446   |       | 0.000   |          | - 1.07/  | (1/)  | - 0.001 | 19     | 92 *  | -2195     | 8     | = 0.000 | н       | • 1.653  |
|        | 0.0000  | 0.00   |       | 0.9052   |       | - 0.015 | 2 10     | -11-040  | 5     | * 0.000 | 00     | DC =1 | 0.4980    | P .   | - 0.012 | 26      | =11.427  |
| · -    | -0.7026 | ~08    | 044 - | 0.9792   | 404   | - 0.000 | 0        |          | •     | -0.504  | E-00   | 044 - | 1.3935    | 40+   | * 0.000 | 0       |          |
|        |         |        |       |          |       |         |          |          |       |         |        |       |           |       |         |         |          |
| Y      | U       | ¥70C   | 0701  | 10-01170 | • Y+  | U+      | TAU      | TAULAH   | ۲     | U       | ¥/DC   | U/UI  | (0-01370) | • Y+  | U+      | T &U    | TAULAH   |
| 0.00B  | 2.54    | 0.0012 | 0.116 | -24.57   | 3.3   | 3.29    | 0.00135  | 0.001173 | 0.01  | 1 2.63  | 0.0010 | 0.128 | -25.22    | 3.9   | 3. 71   | 0.00125 | 0.001035 |
| 0.010  | 3.11    | 0.0014 | 0.139 | -23.99   | 4.1   | 3.68    | 0.00137  | 0.001138 | 0.01  | 3 2.90  | 0.0012 | 0.142 | -24.84    | 4.6   | 4.09    | C.C0126 | 0.001008 |
| 0.012  | 3.73    | 0.0017 | 0.167 | -23.20   | 5.Ò   | 4.66    | 0.00138  | 0.001102 | 0.01  | 5 3.39  | 0.0014 | 0.165 | -24.16    | 5.4   | 4.78    | 0,00127 | 0.000981 |
| 0.014  | 4.32    | 0.0020 | 0.194 | -22.47   | 5.8   | 5.40    | 0.00140  | 0.001069 | 0.01  | 7 3.90  | 0.0016 | 0.190 | -23.43    | 6.1   | 5.50    | 0.00126 | 0.000952 |
| 0.016  | 4.82    | 0.0023 | 0.216 | -21.85   | 6.5   | 6.02    | 0.00141  | 0.001020 | 0.01  | 9 4.32  | 0.0018 | 0.210 | -22.85    | 6.8   | 6.09    | 0.00129 | 0.000969 |
|        |         |        |       |          |       |         |          |          |       |         |        |       |           |       |         |         |          |
| 0.019  | 5.63    | 0.0028 | 0.252 | -20.83   | 7.9   | 7.03    | 0.(0144  | 0.000899 | 0.02  | 2 4.83  | 0.0021 | 0.235 | -22.12    | 7.9   | 6.81    | 0.00130 | 0.000877 |
| 0.028  | 6.59    | 0.0033 | 0.295 | -19.63   | 9.5   | 6.23    | 0.00146  | 0.000758 | 0.02  | 6 5.59  | 0.0024 | 0.272 | -21.06    | 9.4   | 7.68    | 0.00132 | 0.000729 |
| 0.027  | 7.24    | 0.0039 | 0.325 | -18.82   | 11.2  | 9.04    | 0.00149  | 0.000625 | 0.03  | 1 6.51  | 0.0029 | 0.317 | -19.75    | 11.2  | 9.18    | 0.00134 | 0.000585 |
| 0.032  | 7.96    | 0.0046 | 0.357 | -17.92   | 13.3  | 9,94    | 0.00152  | 0.000487 | 0.03  | ¥ 7.20  | 0.0035 | 0.351 | -18.79    | 13.4  | 10.15   | 0.60137 | 0.000462 |
| 0.036  | 8.77    | 0.0055 | 0.393 | -16.92   | 15.7  | 10.95   | 0.00156  | 0.000379 | 0.04  | 5 7.65  | 0.0042 | 0.373 | -18.15    | 16.4  | 10.78   | 0.00140 | 0.000328 |
|        |         |        |       |          |       |         |          |          |       |         |        |       |           |       |         |         |          |
| 0.045  | 9.27    | 0.0065 | 0.416 | -16.29   | 18.6  | 11.58   | C. CC159 | 0.000291 | 0.05  | 8 8.44  | 0.0054 | 0.411 | -17.03    | 20.8  | 11.90   | 0.00145 | 0.000217 |
| 0.054  | 9.77    | 0.0078 | 0.438 | -15.66   | 22.4  | 12.21   | 0.60164  | 0.000218 | 0.07  | a 9.07  | 0.0066 | 0.442 | -16.15    | 25.5  | 12.79   | 0.00150 | 0.000157 |
| 0.066  | 10.45   | 0.0096 | 0.468 | -14.81   | 27.3  | 13.05   | 0.00169  | 0.000155 | 0.08  | 6 9.38  | 0.0083 | 0.457 | -15.71    | 32.2  | 13.22   | 0.00156 | 0.000115 |
| 0.078  | 10.80   | 0.0114 | 0.484 | -14.37   | 32.7  | 13.50   | 0.00174  | 0.000124 | 0,10  | 5 9.83  | 0.0100 | 0.479 | -15.08    | 38.4  | 13.85   | 0.00142 | 0.000088 |
| 0.094  | 11.30   | 0.0136 | 0.507 | -13.75   | 38.9  | 14.12   | 0.00180  | 0.000101 | 0.13  | 5 10.22 | 0.0128 | 0.498 | -14-53    | 49.4  | 14.41   | 0.00171 | 0.000067 |
|        |         |        |       |          |       |         |          |          |       |         |        |       |           |       |         |         |          |
| 0.114  | 11.60   | 0.0165 | 0.520 | -13.38   | 41.2  | 14.49   | 0.90186  | 0.000082 | 0.11  | 5 10.78 | 0.0166 | 0.525 | -13.73    | 64.1  | 15.20   | 0.00183 | 0.000056 |
| 0.139  | 12-15   | 0.0201 | 0.545 | -12.69   | 21.0  | 12-18   |          | 0.000073 | 0.22  | 0 11-24 | 0.0214 | 0.548 | -13.09    | 82.4  | 15.85   | 0.00196 | 0.000049 |
| 0.174  | 12.72   | 0.0252 | 0.570 | -11.98   | 12.1  | 15.89   | 0.06202  | 0.000065 | 0.28  | 0 11.86 | 0.0266 | 0.5/8 | -12.22    | 102.6 | 16.71   | 0.00208 | 0.000046 |
| 0.214  | 13.30   | 0.0310 | 0.599 | -11.10   | 85.5  | 10.04   | 1.00208  | 0.000061 | U. 34 | 0 12.34 | 0.0323 | 0.601 | -11.59    | 129.0 | 17.40   | 0.00216 | 0.000044 |
| 0.254  | 14.04   | 0.0315 | 0.024 | -10.33   | 107+3 | 14+24   | 0.00211  | 0.000098 | 0.40  | 5 12.97 | 0.0385 | 0.032 | -10.05    | 149.2 | 19-50   | 0.00225 | 0.000044 |
| 0.304  | 14.47   |        |       | . O E4   | 174 0 | 10 37   | 0.00300  | 0 000057 | 0.47  |         |        |       |           |       | 10.00   | C C0236 |          |
| 0.359  | 15 43   | 0.0570 | 0.690 | - 8 60   | 148 7 | 10.27   | 0.00205  | 0.000055 | 0.54  | 5 14 26 | 0.0510 | 0.017 |           | 100 0 | 20 10   | 0.00227 | 0.000043 |
| 0.400  | 16 16   | 0.0507 | 0.774 | -7.68    | 149.4 | 20.19   | 0 1 0106 | 0.000054 | 0.44  | 5 15.10 | 0 0414 | 0 740 | -7 57     |       | 21 41   | 0.00719 | 0.000043 |
| 0.459  | 16.86   | 0.0665 | 0.756 | -6.81    | 190.1 | 21.06   | 0.00184  | 0.000053 | 0.74  | 5 16-05 | 0.0709 | 0.782 | - 4. 11   | 271.1 | 22.43   | 0.00201 | 0.000042 |
| 0.519  | 17.54   | 0.0752 | 0.788 | -5.91    | 215-0 | 21.96   | 0.00164  | 0.000051 | 0.84  | 5 16.92 | 0.0805 | 0.874 | -5.09     | 310 0 | 23 85   | 0.00176 | 0.000018 |
|        |         |        |       |          |       |         |          |          |       |         |        |       |           |       | 23443   |         | 0.000038 |
| 0.579  | 18-41   | 0.0839 | 0.825 | -4.67    | 239.8 | 23.00   | 0.00149  | 0.000050 | 0-94  | 5 17.78 | 0.0900 | 0.866 | ~ 1. 8A   | 366.7 | 25.07   | 0.00149 | 0.000036 |
| 0.639  | 19.14   | 0.0925 | 0.858 | -3.96    | 264.7 | 23.91   | 9.00137  | 0.000047 | 1.04  | 5 18.45 | 0.0995 | 0.899 | -2.92     | 381.4 | 26.01   | 0.00117 | 0.000031 |
| 0,709  | Z0.04   | 0.1027 | 0.898 | +2.83    | 293.7 | 25.04   | 0.00121  | 0.000042 | 1.14  | 5 19.28 | 0.1090 | 0.939 | -1.75     | 420.1 | 27.14   | 0.00101 | 0.000025 |
| 0.784  | 20.87   | 0.1135 | 0.936 | -1.80    | 324.7 | 26.07   | C.00110  | 0.000034 | 1.24  | 5 19.83 | 0.1186 | 0.966 | -0.98     | 456.8 | 27.95   | 0.00081 | 0.000019 |
| 0.859  | 21.56   | 0.1244 | 0.966 | -0.94    | 355.8 | 26.93   | 0.00098  | 0.000025 | 1.37  | 20.28   | 0.1305 | 0.968 | -0.34     | 502.7 | 28.59   | 0.00056 | 0.000012 |
|        |         |        |       |          |       |         |          |          |       |         |        |       |           |       |         |         |          |
| 0.959  | 22.11   | 0.1389 | 0,991 | -0.25    | 397.2 | 27.62   | 0.00073  | 0.000015 | 1.49  | 5 20.48 | 0.1424 | 0.998 | -0.06     | 548.6 | 28.88   | 0.00029 | 0.00006  |
| 1.050  | 22.31   | 0.1534 | 1.000 | 0.01     | 438.7 | 27.87   | 0.00037  | 0.000006 | 1.64  | 5 20.54 | D.1567 | 1.001 | 0.02      | 603.6 | 28.95   | 0.00000 | 0.000001 |
| 1.159  | 22.32   | 0.1678 | 1.001 | 0.02     | 480.1 | 27.A8   | n.0000C  | 0.000001 | 1.79  | 5 20.53 | 0.1709 | 1.000 | 0.00      | 658.7 | 28.93   | 0.00000 | 0.000000 |
| 1.284  | 22.31   | 0.1859 | 1.000 | 0.00     | 531.9 | 27.87   | 0.0000   | 0.000000 |       |         |        |       |           |       |         |         |          |

| RUNII                       | 110971-1                             | X=46          | · 2•                           | B.                                    |                         |                                          |                            |                               | RUN: 1                      | 10971-1                              | X=58           | . Z=                           | <b>0</b> .                           |                        |                                  |                 |                               |
|-----------------------------|--------------------------------------|---------------|--------------------------------|---------------------------------------|-------------------------|------------------------------------------|----------------------------|-------------------------------|-----------------------------|--------------------------------------|----------------|--------------------------------|--------------------------------------|------------------------|----------------------------------|-----------------|-------------------------------|
| UI -<br>CF/2-<br>F -<br>K - | 19.39<br>0.0011<br>0.0000<br>-0.396E | 4<br>0<br>-04 | D1 =<br>D2 =<br>DC =1<br>D99 = | 0.4663<br>0.2836<br>19.8318<br>1.6038 | BE TA<br>B<br>P+<br>V0+ | = 1.630<br>= 0.000<br>= 0.010<br>= 0.000 | N RDZ<br>N H<br>N3 G<br>N0 | = 2845.<br>= 1.644<br>=11.621 | UI =<br>CF/2=<br>F =<br>K = | 18.55<br>0.0011<br>0.0000<br>-0.3286 | 0<br>00<br>-06 | D1 =<br>D2 =<br>DC =1<br>D99 = | 0.3497<br>0.3406<br>6.5931<br>2.1736 | 86TA<br>8<br>7+<br>VO+ | 1.577<br>0.000<br>0.009<br>0.000 | P82<br>N<br>0 6 | = 3269.<br>= 1.614<br>=11.483 |
| ۲                           | U                                    | ¥70C          | U/UT                           | 48-01170                              | • *+                    | U+                                       | TAU                        | TAULAN                        | ۲                           | U                                    | Y/DC           | u/vt                           | (U-U()/U                             | ٧+                     | U+                               | TAU             | TAULAN                        |
| 0.015                       | 2.71                                 | 0.0011        | 0.140                          | -25.52                                | 5.1                     | 4.14                                     | 0.00120                    | 0.000920                      | 0.014                       | 2.92                                 | 0.0011         | 0.157                          | -25.44                               | 5.7                    | 4.75                             | 0.00116         | 0.000947                      |
| 0.01#                       | 3.09                                 | 0.0012        | 0.160                          | -24.93                                | 5.7                     | 4.75                                     | 0.00121                    | 0.000916                      | 0.020                       | 3.24                                 | 0.0012         | 0.175                          | -24.91                               | 6.4                    | 5.27                             | 0.00116         | 0.000956                      |
| 0.019                       | 3.41                                 | 0.0014        | 0.174                          | -24.44                                | 6.4                     | 5.22                                     | 0.00121                    | 0.000912                      | 0.022                       | 3.67                                 | 0.0013         | 0.198                          | -24.22                               | 7.0                    | 5.96                             | 0.00117         | 0.000964                      |
| 0.021                       | 3.79                                 | 0.0015        | 0.19                           | 5 -23.86                              | 7.1                     | 5.88                                     | 0.00122                    | 0.000855                      | 0.024                       | 3.90                                 | 0.0014         | 0.210                          | -23.83                               | 7.6                    | 6.35                             | 0.00117         | 0.000915                      |
| 0.025                       | 4.18                                 | 0.0017        | 0.214                          | -23.27                                | 7.8                     | 6.40                                     | 0.00123                    | 0.000816                      | 0.025                       | 4.27                                 | 0.0016         | 0.230                          | -23.23                               | 8.3                    | 6.96                             | 0.00118         | 0.000880                      |
| 0.0Z&                       | 4.64                                 | 0.0019        | 0.240                          | -22.50                                | 8.8                     | 7.10                                     | 0.00124                    | 0.000746                      | 0.029                       | 4.83                                 | 0.0017         | 0.261                          | -22.32                               | 9.2                    | 7.86                             | 0.00119         | 0.000781                      |
| 0.030                       | 5.06                                 | 0.0022        | 0.261                          | -21.93                                | 10.1                    | 7.74                                     | 0.00125                    | 0.000642                      | 0.039                       | 5.21                                 | 0.0020         | 0.281                          | -21.71                               | 10.5                   | 8.47                             | 0.00120         | 0.000668                      |
| 0.035                       | 5.73                                 | 0.0025        | 0.29                           | -20.90                                | 11.8                    | 8.76                                     | 0.00127                    | 0.000533                      | 0.038                       | 5.84                                 | 0.0023         | 0.315                          | -20.68                               | 12.1                   | 9.50                             | 0.00122         | 0.000517                      |
| 0.042                       | 6.40                                 | 0.0030        | 0.334                          | -19-8/                                | 14-2                    | 9.79                                     | 0.00130                    | 0.000425                      | 0.045                       | 6.44                                 | 0.0027         | 0.347                          | -19.70                               | 14-3                   | 10.49                            | 0.00124         | 0.000386                      |
| 0.052                       | 1.29                                 | 0.0038        | 0.314                          | -18.38                                | 11.0                    | 11408                                    | 0.00133                    | 0.000317                      | 0.054                       | 4.80                                 | 0.0033         | 0.366                          | -19.12                               | 11.2                   | 11.06                            | 0.00120         | 0.000295                      |
| 0.065                       | 7.69                                 | 0.0047        | 0.391                          | 7 -17.90                              | 22.0                    | 11.76                                    | 0.00137                    | 0.000219                      | 0.069                       | 7.43                                 | 0.0042         | 0.401                          | -16.09                               | 21.9                   | 12.10                            | 6.00130         | 0.000197                      |
| 0.085                       | 8.51                                 | 0.0061        | 0.439                          | -14.64                                | 28.7                    | 13.02                                    | 0.00143                    | 0.000143                      | 0.089                       | 8.15                                 | 0.0054         | 0.434                          | -16.92                               | 28.3                   | 13.26                            | 0.00135         | 0.000137                      |
| 0.115                       | 9.04                                 | 0.0083        | 0.466                          | 5 -15.83                              | 38.9                    | 13+84                                    | 0.00152                    | 0+000092                      | 0.119                       | 8.63                                 | 0.0072         | 0.465                          | <b>~16.14</b>                        | 37.8                   | 14,04                            | 0.00147         | 0.000093                      |
| 0.156                       | 9.60                                 | 0.0112        | 0.495                          | 5 -14.98                              | 52.4                    | 14.69                                    | 0.00163                    | 0.000063                      | 0.159                       | 9.16                                 | 0.0096         | 0.494                          | -15.28                               | 50.6                   | 14.90                            | 0.00152         | 0.00064                       |
| 0.205                       | 10.10                                | 0_0148        | 0.521                          | -14.21                                | 69.3                    | 15.46                                    | 0.00176                    | 0.000048                      | 0.209                       | 9.66                                 | 0.0126         | 0.521                          | -14.47                               | 66.5                   | 15.71                            | 0.00162         | 0.000048                      |
| 0.265                       | 10.59                                | 0.0192        | 0.547                          | -13.45                                | 89.6                    | 16.21                                    | 0.00191                    | 9,000040                      | 0.284                       | 10.05                                | 0.0171         | 0.542                          | -13.83                               | 90.3                   | 16.35                            | 0.00177         | 0.000039                      |
| 0.325                       | 10.91                                | 0.0235        | 0.563                          | -12.97                                | 109.9                   | 16.69                                    | 0.00203                    | 0.000038                      | 0.359                       | 10.60                                | 0.0216         | 0.572                          | -12.93                               | 114.2                  | 17.25                            | 0.00192         | 0.000033                      |
| 0.400                       | 11.49                                | 0.0289        | 0.593                          | -12.07                                | 135.3                   | 17.59                                    | 0.00216                    | 0.000036                      | 0.450                       | 11.14                                | 0.0277         | 0.601                          | -12.05                               | 146.0                  | 18.13                            | 0.00209         | 0.000030                      |
| 0.508                       | 12.02                                | 0.0361        | 0.620                          | -11.26                                | 169.1                   | 18.40                                    | 0.00233                    | 0.000036                      | 0.550                       | 11.65                                | 0.0337         | 0.628                          | -11.23                               | 177.6                  | 18.96                            | C.00224         | 0.000029                      |
| 0.608                       | 12.83                                | 0.0434        | 0.662                          | -10.04                                | 202.9                   | 19.63                                    | 0.00244                    | 0.000036                      | 0.684                       | 12.11                                | 0.0412         | 0.653                          | -10.48                               | 217.5                  | 19.78                            | 0.00234         | 0.000029                      |
| 0.708                       | 13-48                                | 0.0506        | 0.696                          | -9.03                                 | 236.7                   | 20.63                                    | 0.00246                    | 0.000035                      | 0.800                       | 12.81                                | 0.0488         | 0.690                          | -9.34                                | 257.3                  | 20.84                            | 0.00241         | 0.000028                      |
| 0.808                       | 14.11                                | 0.0578        | 0.728                          | -8.07                                 | 270.5                   | 21.59                                    | 0.00242                    | 0.000035                      | 0.950                       | 13.55                                | 0.0578         | 0.731                          | -8.13                                | 305.0                  | 22.05                            | 0.00241         | 0.000029                      |
| 0.925                       | 14.97                                | 0.0669        | 0.772                          | -6.76                                 | 312.8                   | 22.91                                    | 0.00230                    | 0.000033                      | 1.100                       | 14.35                                | 8 6 6 0 . 0    | 0.773                          | -6.84                                | 352.7                  | 23.35                            | 0.00233         | 0.000028                      |
| 1.050                       | 15.72                                | 0.0759        | 0.811                          | -5.61                                 | 355.0                   | 24.05                                    | 0.00209                    | 0.000031                      | 1-259                       | 15.00                                | 0.0759         | 0.809                          | -5+78                                | 400.4                  | 24.41                            | 0.00212         | 0.000027                      |
| 1.175                       | 14.59                                | 0.0849        | 0.856                          | - 4. 28                               | 397-3                   | 23.38                                    | 0.00185                    | 0.000024                      | 1.409                       | 15.80                                | 0.0849         | 0.852                          | -4.47                                | 448.1                  | 25.71                            | 0.00184         | 0,000025                      |
| 1.308                       | 17.10                                | 0.0940        | 0.886                          | -3.37                                 | 439.6                   | 26.29                                    | 0.00147                    | 0.000026                      | 1.609                       | 16.64                                | 0.0970         | 0.897                          | -3.10                                | 511.7                  | 27.08                            | 0.00145         | 0.000021                      |
| 1.450                       | 17.98                                | 0.1048        | 0.927                          | 1 -2.15                               | 490.3                   | 27.51                                    | 0.00111                    | 0.000022                      | 1.809                       | 17.47                                | 0.1090         | 0.942                          | -1.76                                | 575.3                  | Z8.42                            | 0.00104         | 0.000016                      |
| 1.608                       | 18.62                                | 0.1157        | 0.960                          | ) -1.LB                               | 541.0                   | 28.48                                    | 0.00080                    | 0.000016                      | 2.009                       | 18.12                                | 0.1211         | 0.977                          | -0.70                                | 638.9                  | 29.48                            | 0.00068         | 0.000011                      |
| 1.750                       | 19.10                                | 0.1265        | 0.985                          | -0.44                                 | 591.7                   | 29.22                                    | 0.00057                    | 0.000011                      | 2.209                       | 18.42                                | 0.1331         | 0.993                          | -0.22                                | 702.5                  | 29.97                            | 0.00033         | 0.000007                      |
| 1.908                       | 19.36                                | 0.1374        | 0.999                          | -0.03                                 | 04Z.4                   | 29.63                                    | 0.00038                    | 0.000007                      | 2.509                       | 18.58                                | 0.1512         | 1.001                          | 0.04                                 | 141.4                  | 30.23                            | 0.00000         | 0.000002                      |
| 2,108                       | 19.41                                | 0.1518        | 1.001                          | 0.04                                  | 710.1                   | 24.70                                    | 0.00013                    | 0.000002                      | 2.809                       | 18.55                                | 0.1693         | 1.000                          | 0.00                                 | 893.3                  | 30.18                            | 0.00000         | 0,00000                       |
| 2.308                       | 19.41                                | 0.1663        | 1.001                          | 0.04                                  | 777.7                   | 29.75                                    | 0.00000                    | -0.000002                     |                             |                                      |                |                                |                                      |                        |                                  |                 |                               |
| 2.508                       | 19.39                                | 0.1807        | 1.000                          | 3 0.00                                | 845.3                   | 29.66                                    | 0.00000                    | 0.000000                      |                             |                                      |                |                                |                                      |                        |                                  |                 |                               |
|                             |                                      |               |                                |                                       |                         |                                          |                            |                               |                             |                                      |                |                                |                                      |                        |                                  |                 |                               |

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| RUNII | 110971-1 | X-70   | . I×   | <b>.</b> |        |                            |         |          | RUNI    | 110971-1 | X=82.  | . z=    |          |                |         |         |          |
|-------|----------|--------|--------|----------|--------|----------------------------|---------|----------|---------|----------|--------|---------|----------|----------------|---------|---------|----------|
| UT =  | 17.97    |        | D1 -   | 8.6291   | BE TA  | - 1.541                    | r PD2   | . 3673.  | UT -    | 17.42    |        | 01 -    | .7263    | BE TA          | - 1.575 | RDZ     | - 4139.  |
| CF/2+ | 0.0010   | 7      | D2 -   | . 3951   | в      | - 0.000                    | ) н     | = 1.592  | CF/2=   | 0.0010   | 3      | D2 = 1  | 0.4591   | В              | = 0.000 | L N     | • L.58Z  |
| F +   | 0.0000   | 0      | OC =1  | 9.2678   | P+     | <ul> <li>D. 008</li> </ul> | 1 6     | =ll.391  | F =     | 0.0000   | a      | DC =2   | 2.5768   | P+             | - 0.007 | 5 6     | +11.435  |
| К =   | -0.28ZE  | -04    | D99 =  | 2.5570   | ¥0+    | - 0.000                    | ю       |          | К •     | -0.249E  | -06    | D99 = 1 | 2.9793   | ¥0+            | - 0.000 | 10      |          |
|       |          |        |        |          |        |                            |         |          |         |          |        |         |          |                |         |         |          |
| ¥     | U        | ¥/DC   | 0701   | {U-UE}   | ja Y+  | U+                         | TAU     | TAULAM   | ۲       | U        | ¥70C   | 0701    | {U-U[}/U | і <b>в</b> ү е | U+      | TAU     | TAULAM   |
| 0.017 | 2.90     | 0.0009 | 0.161  | -25.68   | 5.2    | 4.95                       | 0.00111 | 0.000908 | 0.019   | 2.68     | 0.0008 | 0.154   | -26.30   | 5.5            | 4.79    | 0.00107 | 0.000936 |
| 0.019 | 3.31     | 0.0010 | 0.184  | -24.99   | 5. B   | 5.64                       | 0.00112 | 0.000875 | 0.021   | 3.01     | 0.0009 | 0.173   | -25.72   | 6.1            | 5.37    | P.00108 | 0.000939 |
| 0.021 | 3.58     | 0.0011 | 0.199  | -24.53   | 6.4    | 6.10                       | 0.00112 | 0.000841 | 0.023   | 3.41     | 0.0010 | 0.195   | -25.01   | 6.7            | 6.06    | 0.00108 | 0.000942 |
| 0.023 | 3.91     | 0.0012 | 0.216  | -23.96   | 7.0    | 6.67                       | 0.00113 | 0.000000 | 0.025   | 3.71     | 0.0011 | 0.213   | -24.47   | 7.2            | 6.61    | 0.00109 | 0.000933 |
| 0.025 | 4.10     | 0.0013 | 0.228  | -23.64   | 7.6    | 6.99                       | 0.00113 | 0.000751 | 0.027   | 3.96     | 0.0012 | 0.227   | -24.02   | 7.8            | 7.06    | 6.00109 | 0.000873 |
| 0-928 | 4.44     | 0.0015 | 0.247  | -23.05   | 8.5    | 7.57                       | 0.00114 | 0.000708 | 0.030   | 4.32     | 0.0013 | 0.248   | -23.38   | 8.7            | 7.71    | 0.00110 | 0.000769 |
| 0.032 | 4.88     | 0.0017 | 0.272  | -22.31   | 9.7    | 8.32                       | 0.00115 | 0.000631 | 0.036   | 5.00     | 0.0016 | 0.287   | -22.16   | 10.4           | 8.99    | 0.00111 | 0.000610 |
| 0.038 | 5,57     | 0.0020 | 0.310  | -21.13   | 11.5   | 9.49                       | 0.00117 | 0.000519 | 0.045   | 5.78     | 0.0019 | 0.332   | ~20.78   | 12-8           | 10.31   | 0.00112 | 0.000456 |
| 0.046 | 6.30     | 0.0024 | 0.351  | -19.88   | 14.0   | L0.74                      | 0.00118 | 0.000395 | 0.056   | 6.35     | 0.0025 | 0.364   | -19.76   | 16.2           | 11.33   | 0.00114 | 0.000313 |
| 0.058 | 6.73     | 0.0030 | 0.375  | -19.16   | 17.6   | 11.47                      | 0.00121 | 0.000274 | 0.071   | 6.99     | 0.0031 | 0.401   | -18.61   | 20.6           | 12.47   | 0.00117 | 0.000212 |
| 0.073 | 7.31     | 0.0038 | 0.407  | -18.16   | 22.2   | 12.47                      | 0.00125 | 0.000185 | 0.094   | 7.59     | 0.0043 | 0.435   | -17, 55  | 27.8           | 13.54   | C.00120 | 0.000131 |
| 0.093 | 7.87     | 0.0048 | 0.438  | -17.21   | 28.2   | 13.42                      | 0.00129 | 0.000126 | 0.138   | 8.24     | 0.0060 | 0.473   | -16.39   | 39.4           | 14.78   | C.00126 | 0.000081 |
| 0.123 | 8.40     | 0.0064 | 0.467  | -16.31   | 37.3   | 14.31                      | 0.00135 | 0.000089 | - 0.194 | 6.65     | 0.0087 | 0.496   | -15.65   | 56.8           | 15.43   | C.90134 | 0.000049 |
| 0.198 | 8.97     | 0.0100 | 0.499  | -15,33   | 58.6   | 15.29                      | 3.00148 | 0.000052 | 0.271   | 9.24     | 0.0120 | 0.530   | -14.60   | 78.6           | 16.49   | 0.00145 | 0.000036 |
| 0.258 | 9.45     | 0.0131 | 0.526  | -14.52   | 76.8   | 16.11                      | 0.00159 | 0.000041 | 0.34#   | 9.54     | 0.0153 | 0.549   | -14.03   | 100.3          | 17.05   | 0.00152 | 0.000030 |
| 0.328 | 9.86     | 0.0170 | 0.549  | -13.82   | 99.6   | 16.80                      | 0.00172 | 0.000033 | 0.446   | 9.85     | 0.0198 | 0.565   | -13.52   | 179.3          | 17.57   | 0.00160 | 0.000076 |
| 0.420 | 10.44    | 0.8222 | 0.581  | -12.82   | 129.9  | 17.80                      | 0.00186 | 0.000029 | 0.546   | 10.34    | 0.0242 | 0.594   | -12.64   | 158.3          | 18.45   | C.00169 | 0.000025 |
| 0.528 | 10.84    | 0.0274 | 0.604  | -12-14   | 160.3  | 18.48                      | 0.00198 | 0.000027 | 0.694   | 10.79    | 0.0308 | 0.619   | -11-84   | 201.6          | 19.24   | 0.00179 | 0.000023 |
| 0.628 | 11-16    | 0.0326 | 0.621  | -11.60   | 190.6  | 19.02                      | 0.00208 | 0.000027 | 0.844   | 11.31    | 0.0375 | 0.649   | -10.91   | 245.3          | 20.18   | 0,00158 | 0.000023 |
| 0.753 | 11.79    | 0.0391 | 0.657  | -10.52   | 228.5  | 20.11                      | C.00220 | 0.000026 | 0.996   | 12.00    | 0.0441 | 0.489   | -9.67    | 288.0          | 21.42   | 0.20104 | 0.000022 |
| 0.905 | 12.40    | 0.0469 | 0.690  | -9.49    | 274.1  | 21.19                      | 0.00229 | 0.000025 | 1.144   | 12.76    | 0.0508 | 0.704   | -9.22    | 337.3          | 21.87   | 0.00190 | 0.000022 |
| 1.054 | 13.05    | 0.0547 | 0.726  | -8.38    | 319.6  | 22.25                      | 0.00233 | 0.000025 | 1.296   | 12.96    | 0.0574 | 0.744   | - 7.96   | 375.8          | 23.13   | 0.00192 | 0.000021 |
| 1.204 | 13.58    | 0.0624 | 0.756  | -7.47    | 365.1  | 23.16                      | 0.00228 | 9.000024 | 1-496   | 13.46    | 0.0663 | 0.772   | - 7.07   | 433.8          | 24.01   | 0.20180 | 0.000021 |
| 1.355 | 14.14    | 0.0702 | 0.787  | -6.52    | 410.6  | 24.14                      | 0.00218 | 0.000024 | 1.696   | 14.15    | 0.0751 | 0.812   | - 5.84   | 491.8          | 25.24   | 0.00169 | 0.000020 |
| 1.503 | 14.82    | 0.0780 | 0.825  | -5.37    | 456.Z  | 25.26                      | 0.00204 | 0.000023 | 1,994   | 15.15    | 0.0854 | 0.869   | -4.06    | 578.8          | 27.03   | 0.00142 | 0.000018 |
| 1.704 | 15.59    | 0.0884 | D. 868 | -4-04    | 516.9  | 26.58                      | 0.00174 | 0.000021 | 2.298   | 15.99    | 0.1017 | 0.918   | -2.56    | 665.8          | 28.52   | 0.00101 | 0.000015 |
| 1.903 | 16.29    | 0.0988 | 0.907  | -2.85    | 577.6  | 27.78                      | 0.00136 | 0.000018 | 2.596   | 16.73    | 0.1150 | 0.960   | -1.24    | 752.0          | 29.84   | 0.00060 | 0.000010 |
| 2.108 | 16.87    | 0.1091 | 0.939  | -1.67    | 638.3  | 28.76                      | 0.00094 | 0.000014 | 2.898   | 17.19    | 0-1203 | 0.987   | -0.42    | 839.8          | 30.67   | 0.00027 | 0.000007 |
| 2.303 | 17.37    | 0.1195 | 0.967  | -1.02    | 699.0  | 29.61                      | 0.00058 | 0.000011 | 3.196   | 17.41    | 0.1416 | 0.999   | -0.03    | 926.8          | 31.05   | 0.00008 | 0.000003 |
| 2.603 | 17.86    | 0.1351 | 0.994  | -0.18    | 790.0  | 30.45                      | 0.00022 | 0.000006 | 3.496   | 17.46    | 0.1548 | 1.002   | 0.06     | 1013.0         | 31.15   | 0.00000 | 0.000001 |
| 2,903 | 17.99    | 0.1507 | 1,001  | 0.04     | 661.1  | 30.67                      | 0.30000 | 0.0000BZ | 3. 894  | 17.47    | 0.1726 | 1.000   | 0.00     | 1129.8         | 31.04   | 0.00000 | 0.000000 |
| 3.303 | 17.97    | 0.1714 | 1.000  | 0.00     | 1002.5 | 30.63                      | 0.00000 | 0.000000 |         |          |        |         |          |                |         |         |          |

to the distance of the second s

| KUN: 110971-1     X=90.     Z=0.     RUN: 21572-5     X=2.     Z=0.       UI     = 17.10     DI     = 6.8244     BETA= 1.750     RU2 = 4578.     UI = 29.42     DI     = 0.0510     BETA= 0.194     RD       CF/2=     0.00101     D2     = 5.174     B     = 0.0800     H     = 1.593     CF/2= 0.00276     D2     = 0.0339     B     = -0.728     H       F     =     0.00000     DC     = 25.936     P+     +     0.0876     G     = 11.724     F     = -0.00271     DC     = 0.9701     P+     +     0.0047     G       K     =     -     0.242E=06     D99     = 3.3667     V0+     =     0.00000     X     =     -0.685E=C6     D99     = 0.3067     V+     =     0.02167     G     -0.0233     X     X     =     -0.685E=C6     D99     =     0.01047     G       Y     U     V/OC     U/UI     U/UI     U/UI     V     V     TAULAR     Y     U/OC     U/UI     U/UI     V+     U+       0.021     2.98     0.0008     0.174     -26.00     5.8     5.48     0.000862     0.004     5.257     1.27     1.5     3.76       0.0223 </th <th>- 519.<br/>- 1.503<br/>- 6.372<br/>TAULAM<br/>0.002436<br/>0.002277</th> | - 519.<br>- 1.503<br>- 6.372<br>TAULAM<br>0.002436<br>0.002277 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| UI = 17.10 D1 = 0.8244 BETA= 1.750 R02 = 4576. UI = 20.42 D1 = 0.0510 BETA= 0.194 RD:<br>CF/2= 0.00101 D2 = 0.5174 B = 0.080 H = 1.593 CF/2= 0.00276 D2 = 0.0359 B = -0.728 H<br>F = 0.00000 DC = 25.9536 P+ 0.0876 G = 11.724 F = -0.00201 DC = 0.9701 P+ = 0.7047 G<br>K = -0.242E=06 D99 = 3.3669 V0+ = 0.0800 K = 1.124 F = -0.00201 DC = 0.9701 P+ = 0.0047 G<br>V U V/0C U/UI UU-UI1/U+ V+ U+ TAULAM Y U V/0C U/UI UU-UI1/U+ V+ U+<br>0.021 Z-98 0.0006 0.174 - 26.00 5.6 5.46 0.000862 0.004 5.81 0.0054 0.198 -15.27 3.5 3.76<br>0.025 3.19 0.0009 0.187 -25.60 6.4 5.58 0.000864 0.005 6.03 0.0055 0.225 -14.74 4.3 4.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - 519.<br>- 1.503<br>- 6.372<br>TAULAM<br>0.002436<br>0.002277 |
| CF/2=       0.00101       D2       = 0.5174       B       = 0.0800       H       = 1.593       CF/2=       0.00276       D2       = 0.0339       B       = -0.728       H         F       = 0.00000       DC       25.9536       P+       0.0876       G       = 11.724       F       = -0.0201       DC       = 0.01071       P+       0.0047       G         K       = -0.242E=06       D99       = 3.3669       V0+       = 0.00000       K       = -0.685E=C6       D99       = 0.3067       V0+       = -0.0383         Y       U       Y/0C       U/U1       4U-U11/U4       Y+       U+       TAULAN       Y       U       V/0C       U/U1       (U-U11)/U4       Y+       U+         0.021       2.98       0.0008       0.174       -26.00       5.8       5.48       0.000862       0.004       5.41       0.0054       0.125       -15.27       3.5       3.76         0.0223       2.98       0.0009       0.187       -25.60       6.4       5.88       0.000862       0.005       6.025       0.225       -15.27       3.5       3.76                                                                        | = 1.503<br>= 6.372<br>TAULAM<br>0.002436<br>0.002277           |
| F     =     0.00000     DC     =     25.9536     P+     0.00876     6     -11.724     F     =     -0.00201     DC     =     0.9701     P+     >     0.0047     G       K     =     -0.242E-06     D99     =     3.3669     V0+     =     0.0000     K     =     -0.685E-C6     D99     =     0.3067     V0+    0.0333       Y     U     Y/OC     U/UI     1U-UI1/U+     Y+     U+     TAULAM     Y     U     Y/OC     U/UI     (U-UI)/U+     Y+     U+       0.021     2.98     0.0008     0.174     -26.00     5.8     5.48     0.000862     0.004     5.25     1.577     3.76       0.023     1.9     0.0009     0.187     -25.60     5.48     0.000864     0.005     6.025     3.0255     1.277     3.5     3.76                                                                                                                                                                                                                                                                                                                                                                                                        | - 6-372<br>TAULAM<br>0.002436<br>0.002277                      |
| K     = -0.242E=06     D99 = 3.3669     V0 = 0.0000     K     = -0.685E=C6     D99 = 0.3067     V0 =0.0383       Y     U     Y/0C     U/UI     4U-UI)/U=     Y+     U+     Y     U     Y/0C     U/UI     IU-UI)/U=     Y+     U+       0.023     2.98     0.0008     0.174     -26.00     5.8     5.48     0.000862     0.004     5.81     0.0204     0.198     -15.27     3.5     3.76       0.023     2.19     0.0009     0.187     -25.60     6.4     5.88     0.000866     0.005     6.0225     1.47     4.3     4.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TAULAM<br>0.002436<br>0.002277                                 |
| Y U Y/DC U/UI 4U-UI1/U# Y* U* TAULAM Y U Y/DC U/UI (U-UI1/U# Y* U*<br>0.021 2.98 0.0008 0.174 -26.00 5.8 5.48 0.000862 0.004 5.81 0.0064 0.198 -15.27 3.5 3.76<br>0.028 3.19 0.0009 0.187 -25.60 6.4 5.88 0.000866 0.005 6.63 0.0055 0.225 -14.74 4.3 4.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | TAULAM<br>0.002436<br>0.002277                                 |
| Y U Y/OC U/UI 1U-UI1/U* Y* U* TAULAM Y U Y/OC U/UI (U-UI1/U* Y* U*<br>0.021 2.98 0.0008 0.1174 -26.00 5.8 5.48 0.000862 0.004 5.81 0.0054 0.198 -15.27 3.5 3.76<br>0.028 3.19 0.0009 0.187 -25.60 6.4 5.58 0.000866 0.005 6.63 0.0055 0.225 -14.74 4.3 4.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TAULAM<br>0.002436<br>0.002277                                 |
| 0.021 2.98 0.0008 0.174 -26.00 5.8 5.48 0.000862 0.004 5.81 0.0044 0.198 -15.27 3.5 3.76<br>0.023 3.19 0.0009 0.187 -25.60 6.4 5.88 0.000846 0.005 6.63 0.0055 0.225 -14.74 4.3 4.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.002436                                                       |
| 0.028 3.19 0.0009 0.187 -25.60 6.4 5.88 0.00846 0.005 6.63 0.0055 0.225 -14.74 4.3 4.29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.002277                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                |
| 0.025 3.38 0.0010 0.198 -25-25 7.0 6.23 0.000830 0.006 7.22 0.0065 0.245 -14.36 5.1 4.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.002119                                                       |
| 0.027 3.89 0.0010 0.227 -24.33 7.5 7.15 0.000766 0.007 8.40 0.0CT5 0.285 -13.60 5.9 5.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.001967                                                       |
| 0.029 3.99 0.0011 0.233 -24.14 8.1 7.35 0.000732 0.008 9.09 0.0086 0.309 -13.15 6.7 5.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.001964                                                       |
| 0.032 4.28 0.0012 0.250 -23.60 8.9 7.88 0.000638 0.010 10.94 0.0106 0.372 -11.96 8.3 7.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.001802                                                       |
| 0.037 4.65 0.00[4 0.272 -22.93 10.3 8.55 0.000503 0.012 12.59 0.0127 0.428 -10.89 9.9 8.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.001561                                                       |
| 0.044 5.21 0.0017 0.305 -21.89 12.3 9.59 0.000431 0.014 13.87 0.0147 0.471 -10.06 11.5 8.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.001323                                                       |
| 0.054 5.85 0.0021 0.342 -20.71 15.1 10.77 0.000324 0.016 15.15 0.0168 0.515 -9.23 13.1 9.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.001105                                                       |
| 0.069 6.46 0.0027 0.378 -19.59 19.3 11.89 0.000228 D.018 16.09 0.0189 0.547 -8.62 14.7 10.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.00926                                                        |
| 0.089 6.99 0.0034 0.409 -18.62 25.0 L2.86 0.000154 0.021 17.08 0.0220 0.500 -7.99 17.1 L1.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000712                                                       |
| 0.114 7.28 0.0044 0.426 -18.08 32.0 13.40 0.000105 0.024 17.93 0.0250 0.609 -7.43 19.5 11.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000555                                                       |
| 0.154 8.04 0.0059 0.470 -18.69 43.2 14.79 0.000067 0.027 18.67 0.0281 0.634 -6.96 22.0 12.08                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000448                                                       |
| 0.214 8.40 0.0082 0.491 -16.01 60.1 15.47 0.000043 0.031 19.31 0.0323 0.656 -6.54 25.7 12.49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000359                                                       |
| 0.289 8.79 0.0111 0.514 -15.30 81.2 16.18 0.000034 0.035 19.91 0.0364 0.677 -6.15 28.4 12.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.000292                                                       |
| 0.364 8.97 0.0140 0.525 -14.96 102-3 16.52 0.000028 0.043 20.69 0.0446 0.703 -5.65 34.8 13.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000212                                                       |
| 0.465 9.37 0.0179 0.548 -14.23 130.4 17.25 0.000025 0.048 21.25 0.0498 0.722 -5.29 38.9 13.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000184                                                       |
| 0.589 9.96 0.0227 0.582 -13.15 165.5 18.33 0.000024 0.058 21.92 0.0601 0.765 -4.85 46.9 14.18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000148                                                       |
| 0.714 10.27 0.0275 0.600 -12.58 200.6 18.90 0.000022 0.068 22.45 D.0704 C.763 -4.51 54.9 14.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000126                                                       |
| 0.864 10.74 0.0333 0.628 -11.72 242.8 19.77 0.000021 0.078 23.00 0.0807 0.782 -4.16 63.0 14.88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000112                                                       |
| 1.014 11.28 0.0391 0.659 -10.72 285.0 20.75 0.000021 0.098 73.93 0.1013 0.813 -3.56 79.1 15.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000097                                                       |
| 1.166 11.66 0.0448 0.682 -10.03 327.1 21.46 0.000021 0.118 24.71 0.1219 0.860 -3.05 95.2 15.99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000086                                                       |
| 1.364 12.28 0.0525 0.718 -8.89 383.4 22.59 0.000021 0.148 25.84 0.1529 0.878 -2.32 119.3 16.72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000072                                                       |
| 1.514 12.80 D.0583 0.749 -7.92 425.5 23.57 0.000020 0.178 26.77 0.1838 0.910 -1.72 143.4 17.32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000059                                                       |
| 1.714 13.32 0.0660 0.779 -6.97 481.7 24.51 D.000020 0.208 27.61 0.2147 0.938 -1.17 167.6 17.86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000046                                                       |
| 1.914 14.05 0.0737 0.821 -5.62 538.0 25.86 0.000019 0.258 28.64 0.2663 0.973 -0.51 207.8 18.53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000029                                                       |
| 2.114 14.54 0.0814 0.850 -4.72 594.2 26.76 0.000018 0.308 29.14 0.3178 0.991 -0.18 248.0 18.85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.003017                                                       |
| 2.314 15.00 0.0892 0.877 -3.68 650.4 27.60 0.000016 0.383 29.38 0.3951 0.999 -0.02 306.4 19.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.000004                                                       |
| 2.614 15.81 0.1007 0.924 -2.38 734.7 29.10 0.000013 0.458 29.40 0.4724 0.999 -0.01 368.7 19.02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -0.000003                                                      |
| 2.914 16.47 0.1123 0.963 -1.17 819.1 30.31 0.000010 0.508 29.42 0.5240 1.000 0.00 408.9 19.03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.000000                                                       |
| 3.214 16.82 0.1238 0.983 -0.52 903.4 30.96 0.000006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| 3.514 17.04 0.1354 0.996 -0.12 987.7 31.37 0.000003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| 3.814 17.11 0.1469 1.0DD 0.01 1072.0 31.49 0.000001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |
| 3.914 [7.10 0.1508 ].000 0.00 [100.1 31.48 0.000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                |

| RUNE  | 21572-5 | X=10   | . z= c  | <b>.</b> |        |         |          |           | RUN:  | 21572-5 | x=22.     | . Z=   | 0.       |       |         |            |            |
|-------|---------|--------|---------|----------|--------|---------|----------|-----------|-------|---------|-----------|--------|----------|-------|---------|------------|------------|
| 01 -  | 26.05   |        | 01 - 0  |          | BETA   | × 0.611 | 8 D 2    | = 801.    | × 10  | 22.55   |           | D1 -   | 0.1610   | PETA  | - 0.590 | RDZ        | = 1250.    |
| CF/2× | 0.0024  | -6     | 02 = 0  | 0,0591   | в      | *-0.720 | н        | * 1.500   | CF/2= | 0.0022  | 21        | D2 *   | 0.1065   | 8     | 0.719   | н          | = 1.512    |
| F .   | -0.0017 | 7      | DC = 1  | 1.7877   | P+     | = 0.010 | 2 G      | = 6.723   | F =   | -0.0015 | i9        | DC =   | 3.4256   | P+    | * 0.006 | 6 <b>6</b> | - 7.201    |
| K =   | -0.125F | -05    | D99 = C | .4691    | ¥0+    | =-0.035 | 7        |           | К *   | -0.690E | -06       | 099 =  | C. 7882  | ¥0+   | =-0.033 | 8          |            |
|       |         |        |         |          |        |         |          |           |       |         |           |        |          |       |         |            |            |
| ۷     | U       | ¥7 DC  | U/UT    | (0-011/0 | * Y+   | U+      | TAU      | TAULAN    | ¥     | U       | Y/DC      | U/UI   | (1-Ut)/0 | • ••  | U+      | TAU        | T A UL AN  |
| 0.005 | 4.60    | 0.0028 | 0.177   | -16.65   | 3-4    | 3.56    | 0.00223  | 0.002216  | 0.005 | 3.00    | 0.0015    | 0.133  | -18-44   | 2.A   | 2.83    | 0.00204    | 0.001704   |
| 0.006 | 5.10    | 0.0034 | 0.196   | -16.21   | 4.0    | 3.95    | 0.00221  | 0.002069  | 0.006 | 3.18    | 0.0018    | 0.141  | -18.27   | 1.1   | 3.00    | 0.00203    | 0.001553   |
| 0.007 | 6.13    | 0.0039 | 0.235   | -15.42   | 4.7    | 4.74    | 0-00216  | 0.D01921  | 0.007 | 3.61    | 0.0070    | 0.160  | -17-87   | 1.9   | 3.40    | 0.00201    | 0.001402   |
| 0.008 | 6.76    | 0.0045 | 0.260   | -14.93   | 5.4    | 5.23    | 0.00213  | 0.001756  | 0.008 | 3.40    | 0.0023    | 0.169  | -17.68   | 4.4   | 3.59    | 0.00201    | 0-001342   |
| 0.009 | 7.28    | 0.0050 | 0.279   | -14.53   | 6.1    | 5.63    | 0.00211  | 0.001721  | 0.009 | 4.23    | 0.0076    | 0.187  | -17.28   | 5.0   | 1.99    | 0.00104    | 0.001427   |
|       |         |        |         |          |        |         |          |           |       |         | 010010    |        |          |       |         | 0.00198    |            |
| 0.010 | 7.76    | 0-0056 | 0.298   | -14-15   | 6.7    | 6.01    | 0.00209  | 0-001551  | 5.011 | 6.87    | 0.0032    | 0.216  | -16.68   | 6.1   | 6.59    | 0.00185    | 0.001454   |
| 0.012 | 8.87    | 0.0067 | 0.340   | -11.30   | 8.1    | 6.86    | 0.00204  | 0.001448  | 0 013 | 5.81    | 0.0038    | 0.258  | -15.79   | 7.2   | 5.48    | 0.00190    | 0.001455   |
| 0.014 | 9.96    | 0.0078 | 0.382   | -12.47   | 9.4    | 7.69    | 0.00200  | 0-001208  | 0.015 | 6 4 6   | 0.0044    | 0 748  | -15 15   |       | á 12    | 0.00107    | 0 001 34 5 |
| 0.016 | 10.78   | 0.0089 | 0.414   | -11.82   | 10.8   | 8.34    | 0 00104  | 0.001086  | 0.019 | 7 45    | 0 0051    | 0 339  | -14 05   |       | 7       | 0.00107    | 0.001109   |
| 0.018 | 11.71   | 0.0101 | 0.450   | -11.10   | 12.1   | 9.07    | 0.00192  | 0.000971  | 0.010 |         | 0.0041    | 0.337  | -12 15   |       | 8 12    | 0.00181    | 0.000003   |
|       |         |        |         |          |        |         | 0.001.72 |           | 01021 |         | 010001    | 0. 302 |          | 11.0  | 0.12    | 0.00110    | 0.000773   |
| 0-071 | 12.05   | 0-0117 | 0.462   | -10,84   | 14.1   | 9.32    | 0.00192  | 0-000792  | 0.026 | 9.35    | 0.0070    | 0.415  | -17.45   | 13.2  | 8.82    | 0.00173    | 0.000862   |
| 0.024 | 13.29   | 0.0134 | 0.510   | -9.88    | 16.1   | 10.79   | 0.00187  | 0.000657  | 0.028 | 10.13   | 0.0082    | 0.449  | -11-72   | 15.5  | 9.56    | 0.00169    | 0.000655   |
| 0.027 | 14.00   | 0.0151 | 0.537   | -9.11    | 18.2   | 10.84   | 0.00185  | 0.000556  | 0.032 | 10.48   | 0.0093    | 0-474  | -11.20   | 17.7  | 10.08   | 0.00168    | 0.000526   |
| 0.031 | 14.58   | 0.0173 | 0.560   | -8.88    | 20.8   | 11.78   | 0.00144  | 0.000471  | 0.039 | 11.62   | 0.0114    | 0.515  | +10.31   | 21.5  | 10.96   | 0.00165    | 0.000380   |
| 0.036 | 15.25   | 0.0201 | 0.585   | -4.16    | 24.7   | 11.80   | 0.00183  | 0.000331  | 0.049 | 12 32   | 0 0143    | 0.544  | -9.45    | 27 0  | 11 47   | 0.00166    | 0.000760   |
|       |         |        |         |          |        |         |          |           | 0.041 | 12.4.72 | 010143    | 0      | - ****   |       |         | 0.00184    | 0.000200   |
| 0.042 | 15-97   | 0.0235 | 0.613   | -7. AG   | 28.2   | 17.36   | 0.00182  | 0.000256  | 0.059 | 32.98   | 0.0172    | 0.576  | -9.03    | 37.6  | 12.24   | 0.00163    | 0.000194   |
| 0.049 | 16.39   | 0.0274 | 0.679   | -7.48    | 33.0   | 12.69   | 0.00182  | 0.000206  | 0.079 | 13 70   | 0 0 7 7 1 | 0 407  | - 15     | 41 4  | 17 07   | 0 00165    | 0 000125   |
| 0.059 | 16.96   | 0.0330 | 0.651   | -7-03    | 39.7   | 13.13   | 0.00182  | 0.000158  | 0.109 | 14.35   | 0.0118    | 0.417  | -7.71    | 40.1  | 13.54   | 0.00165    | 0.000089   |
| 0.079 | 17.92   | 0.0447 | 0.688   | -6.29    | 53.1   | 13.87   | 0 00183  | 0.000116  | 0.169 | 15 30   | 0.0110    | 0 478  |          | 47 7  | 14 47   | 0 00171    | 0.000040   |
| 0.099 | 18.65   | 0.0554 | 0.716   | -5.73    | 66.6   | 14.43   | 0.00181  | 0.000099  | 0,709 | 14 01   | 0 0410    | 0 710  | -6 17    | 115.1 | 15.10   | 0.00170    | 0.000041   |
|       |         | ••••   |         |          |        |         | 0100101  |           | 0.207 | 10.01   | 0.0010    | 0.110  | -4+11    |       | 13110   | 0.001/0    | 01000001   |
| 0.139 | 19.76   | 0.0778 | 0.759   | -4.87    | 93.5   | 15.30   | 0.00174  | 0.000080  | 0.284 | 17.19   | 0.0879    | 0.762  | -5-06    | 156.7 | 16.21   | 0.00162    | 0.000055   |
| 0.179 | 20.79   | 0.1001 | 0.798   | -4.07    | 120.4  | 16.09   | 0.00160  | 0.000071  | 0.159 | 18.13   | 0.1048    | C. 804 | +4.17    | 198.1 | 17.11   | 0.00144    | 0.000051   |
| 0.219 | 71.74   | 0.1225 | 0.835   | - 1, 33  | 147.3  | 16.83   | 0.00143  | 0.000065  | 0.634 | 19 15   | 0 1347    | 0 849  | -1.11    | 776 5 | 10.04   | 0.00176    | 0.000044   |
| 0.259 | 22.63   | 0.1449 | 0.869   | -7.64    | 174.7  | 17.52   | 0.00122  | 0.000059  | 0 509 | 20.10   | 0 1484    | 0.001  | -2.31    | 280.9 | 18.94   | 0.00105    | 0.000039   |
| 0.299 | 23.50   | 0.1673 | 0.902   | -1.98    | 201.1  | 18.19   | 0.00103  | 0.000051  | P04.0 | 21.13   | 0.1778    | 0. 637 | -1.34    | 336.0 | 19.93   | 0.00079    | 0.000030   |
|       | 27470   |        |         |          |        |         | 0100105  | *****     | 0.007 | 21.13   | 0.1170    | 0. 737 | -1.34    | 33040 | 17473   | 0.00019    | 0.000030   |
| 0.349 | 74 - 38 | 0.1952 | 0.936   | -1.29    | 234.7  | 16.87   | 0.00082  | 0.000040  | 0.709 | 22.00   | 0.2070    | 0.975  | +0.57    | 391.2 | 20.75   | 0.00060    | 0.00019    |
| 0.399 | 25.16   | 0.2232 | 0.966   | -0.68    | 268.3  | 19.48   | 0.00067  | 0.000029  | 0.809 | 77.41   | 0.7367    | 499.0  | -0.13    | 444.4 | 71.14   | 0.00039    | 0.000012   |
| 0.474 | 25.83   | 0.2651 | 0.997   | -0.17    | 318.7  | 19.99   | 0.00045  | 0.000016  | 0.007 | 17 85   | 0.7454    | 1 000  | -0.00    | 501 6 | 21 27   | 0.00018    | 0.000004   |
| 0.549 | 26.05   | 0.3071 | 1.000   | 0.00     | 369. 7 | 20.16   | 0.00022  | 0.000006  | 1.009 | 37.55   | 0.2945    | 1.000  | 0.00     | 554.8 | 21.27   | 0.00000    | 0.000000   |
| 0.674 | 26.07   | 0.3490 | 1.001   | 0.01     | 419.6  | 20.18   | 0.00000  | -0.000001 | 1.004 | 22.033  |           | 1.000  | 0.00     |       |         | *******    |            |
|       |         |        |         |          |        |         |          |           |       |         |           |        |          |       |         |            |            |
| 0.699 | 26.05   | 0.3910 | 1.000   | 0.00     | 470.1  | 20.16   | 0.00000  | 0.000000  |       |         |           |        |          |       |         |            |            |

| RUN:                    | 21572-5                               | X=34          | . l=                          | ō.                                   |                        |                          |                   |                                 | RUN:                        | 21572-5                               | X=46          | . 2- (                        | 0.                                   |                        |                                       |                      |                               |
|-------------------------|---------------------------------------|---------------|-------------------------------|--------------------------------------|------------------------|--------------------------|-------------------|---------------------------------|-----------------------------|---------------------------------------|---------------|-------------------------------|--------------------------------------|------------------------|---------------------------------------|----------------------|-------------------------------|
| U1 •<br>CF/2=<br>F<br>K | 20.69<br>0.0020<br>-0.0015<br>-0.499E | 8<br>1<br>-06 | D1 •<br>D2 •<br>DC •<br>D99 • | 0.2211<br>0.1493<br>4.8479<br>1.1037 | 8ETA<br>B<br>P+<br>V0+ | -0.571<br>-0.728<br>0.00 | R 02<br>H<br>13 G | 2 = 1608.<br>= 1.481<br>= 7.118 | UI =<br>CF/2=<br>F =<br>K = | 19.49<br>0.0019<br>-0.0014<br>-0.396E | 8<br>3<br>-06 | 01 =<br>D2 =<br>0C =<br>D99 = | 0.2782<br>0.1884<br>6.2517<br>1.3716 | 8ETA<br>8<br>P+<br>V0+ | - 0.565<br>0.722<br>- 0.0049<br>0.032 | RD2<br>H<br>5 G<br>L | = 1911.<br>= 1.477<br>= 7.255 |
| ۲                       | U                                     | ¥7DC          | U/UT                          | 10-011/0                             | * ¥+                   | U+                       | TAU               | TAULAH                          | ¥                           | U                                     | ¥/DC          | U/UT                          | 10-01170                             | ¥+                     | U+                                    | TAU                  | TAULAN                        |
| 0.006                   | 3.08                                  | 0.0012        | 0.149                         | ~18.66                               | 2.8                    | 3.27                     | 0.00189           | 0.001953                        | 0.007                       | 2.52                                  | 0.0011        | 0.129                         | -19.57                               | 3.2                    | 2.90                                  | 0.00162              | 0.001646                      |
| 0.007                   | 3.38                                  | 0.0014        | 0.163                         | -16.35                               | 3:2                    | 3.58                     | 0.00187           | 0.001799                        | 0.008                       | 2.81                                  | 0.0013        | 0.144                         | -19.24                               | 3.6                    | 3.24                                  | 0.00181              | 0.001612                      |
| 0.008                   | 3,75                                  | 0.0016        | 0.181                         | -17.95                               | 3.7                    | 3.97                     | 0.00185           | 0.001644                        | 0.009                       | 3.07                                  | 0.0014        | 0.157                         | -18.94                               | 4.1                    | 3.53                                  | 0.00179              | 0,001577                      |
| 0.009                   | 4.08                                  | 0.0018        | 0.197                         | -17.60                               | 4.2                    | 4.32                     | 0.00183           | 0.001586                        | 0.011                       | 3.68                                  | 0,0018        | 0.189                         | -18.23                               | 5.0                    | 4.24                                  | 0.00175              | 0.001497                      |
| 0.010                   | 4.48                                  | 0.0020        | 0.216                         | -17.18                               | 4.7                    | 4. 74                    | 0.00180           | 0.001610                        | 0.013                       | 4.23                                  | 0.0021        | 0.217                         | -17.60                               | 5.9                    | 4. 88                                 | 0.00172              | 0-001449                      |
| 9-011                   | 4.76                                  | 0-0022        | 0.230                         | -16.88                               | 5.2                    | 5.05                     | 0.00179           | 0.001588                        | 0.015                       | 4.90                                  | 0.0024        | 0.251                         | -16.82                               | 6.8                    | 5.65                                  | 0.00168              | 0.001376                      |
| 0.013                   | 5.53                                  | 0.0026        | 0.267                         | -16.07                               | 6.2                    | 5.86                     | 0.00174           | 0.001461                        | 0.018                       | 5.62                                  | 0.0029        | 0.288                         | -16.00                               | 8.1                    | 6.47                                  | 0.00164              | 0.001216                      |
| 0.015                   | 6.13                                  | 0.0030        | 0.296                         | -15.43                               | 7.2                    | 6.50                     | 0.00171           | 0.001301                        | 0.021                       | 6.38                                  | 0.0034        | 0.327                         | -15.11                               | 9.5                    | 7.36                                  | 0.00159              | 0.001067                      |
| 0.018                   | 6.93                                  | 0.0036        | 0.335                         | 5 -14.58                             | 8.6                    | 7.35                     | 0.00166           | 0.001104                        | 0.024                       | 7.00                                  | 0.0038        | 0.359                         | -14.40                               | 10.8                   | 8.07                                  | 0.00156              | 0.000928                      |
| 0.021                   | 7.72                                  | 0.0042        | 0.373                         | -13.74                               | 10.1                   | 8.19                     | 9.00162           | 0.000938                        | 0.028                       | 7.62                                  | 0.0045        | 0.391                         | -13.68                               | 12.6                   | 8.79                                  | 0.00152              | 0.000//2                      |
| 0.025                   | 8.36                                  | 0.0051        | 0.404                         | -13.07                               | 12.1                   | 8.86                     | 0.00159           | 0.000746                        | 0.033                       | 8.37                                  | 0.0053        | 0.429                         | -12.83                               | 14.9                   | 9.64                                  | 0.00148              | 0.000603                      |
| 0.030                   | 9.22                                  | 0.0061        | 0.446                         | -12.15                               | 14.5                   | 9.77                     | 0.00155           | 0.000582                        | 0.038                       | 8.95                                  | 0.0061        | 0.459                         | -12-15                               | 17.2                   | 10.32                                 | 0.00146              | 0.000486                      |
| 0.035                   | 9.84                                  | 0.0071        | 0.476                         | -11.49                               | 17.0                   | 10.43                    | 0.00152           | 0.000459                        | 0.048                       | 9.69                                  | 0.0077        | 0.497                         | -11.31                               | 21.7                   | 11.17                                 | 0.00143              | 0.000334                      |
| 0.043                   | 10.39                                 | 0.0088        | 0.502                         | -10.92                               | 20.9                   | 11.01                    | 0.00151           | 0.000335                        | 0.063                       | 10.43                                 | 0.0101        | 0.535                         | -10.45                               | 28.4                   | 12.03                                 | 0.00142              | 0.000210                      |
| 0,053                   | 11-11                                 | 0.0109        | 0.537                         | -10.16                               | 25.8                   | 11.77                    | 0.00149           | 0.000232                        | 0.078                       | 10.98                                 | 0.0125        | 0.563                         | -9.82                                | 35.2                   | 12.66                                 | 0.00142              | 0.000144                      |
| 0.068                   | 11.73                                 | 0.0139        | 0.567                         | -9.49                                | 33.Z                   | 12.43                    | 0.00149           | 0.000158                        | 0.098                       | 11.39                                 | 0.0157        | 0.584                         | -9.34                                | 44.2                   | 13.14                                 | 0.00144              | 0.000104                      |
| 0.093                   | 12.28                                 | 0.0191        | 0.554                         | -8.91                                | 45.5                   | 13.01                    | 0.00152           | 0.000105                        | 0.146                       | 12.11                                 | 0.0237        | 0.621                         | -8.51                                | 66.8                   | 13.96                                 | 0.00151              | 0.000064                      |
| 0.143                   | 13.10                                 | 0.0294        | 0.633                         | -8.04                                | 70.0                   | 13.88                    | 0.00159           | 0.00066                         | 0.198                       | 12.62                                 | 0.0317        | 0.647                         | -7.92                                | 89.4                   | 14.55                                 | 0.00158              | 0.00049                       |
| 0.193                   | 13.72                                 | 0.0397        | 0.663                         | -7.39                                | 94.6                   | 14.54                    | 0.00165           | 0.000055                        | 0.273                       | 13.17                                 | 0.0437        | 0.676                         | -7.29                                | 123.3                  | 15-10                                 | 0.00168              | 0.000042                      |
| 0.268                   | 14.46                                 | 0.0552        | 0.699                         | -6.60                                | 131.4                  | 15.32                    | 0.00171           | 0.00048                         | 0.348                       | 13.75                                 | 0.0557        | 0.705                         | -6.82                                | 157.1                  | 15.85                                 | 0.001/4              | 0.000034                      |
| 0.343                   | 15.17                                 | 0.0707        | 0.733                         | -5.85                                | 168.3                  | 16.07                    | 0.00172           | 0.000045                        | 0.448                       | 14.33                                 | 0.0717        | 0.735                         | -5.96                                | 202.3                  | 16.51                                 | 0.00178              | 0.000031                      |
| 0.443                   | 16.13                                 | 0.0913        | 0.780                         | -4.83                                | 217.4                  | 17.09                    | 0.00165           | 0,000042                        | 0.548                       | 15.15                                 | 0.0877        | 0.777                         | -5.01                                | 247.4                  | 17.47                                 | 0.00175              | 0.00035                       |
| 0.543                   | 17.00                                 | 0.1119        | 0.822                         | - 3. 90                              | 266.5                  | 18.02                    | 0.00150           | 0.000039                        | 0.698                       | 16.11                                 | 0.1117        | 0.826                         | -3.90                                | 315.1                  | 18.57                                 | 0.00158              | 0.00032                       |
| 0.643                   | 17.87                                 | 0.1326        | 0.864                         | -2.99                                | 315.6                  | 18.94                    | 0.00129           | 0.000034                        | 0.848                       | 17.04                                 | 0.1356        | Q.874                         | -2.83                                | 382.9                  | 19.64                                 | 0.00130              | 0.000027                      |
| 0.743                   | 18.69                                 | 0.1532        | 0.903                         | -2.12                                | 364.7                  | 19.8L                    | 0.00105           | 0.000029                        | 0.998                       | 17.91                                 | 0.1596        | 0.919                         | -1.92                                | 450.6                  | 20.65                                 | 0.00096              | 0,00022                       |
| 0.893                   | 19.71                                 | 0.1841        | 0.953                         | -1.03                                | 438.4                  | 20.89                    | 0.00069           | 0.000020                        | 1.198                       | 18.83                                 | 0.1916        | 0.966                         | -0.76                                | 540.9                  | 21.71                                 | 0.00053              | 0.000014                      |
| 1.043                   | 20.37                                 | 0.2151        | 0.984                         | -0.34                                | 512.1                  | 21.58                    | 0.00041           | 0.000013                        | 1.398                       | 19.37                                 | 0.2236        | 0.994                         | -0.14                                | 631.2                  | 22.33                                 | 0.00022              | 0.000001                      |
| 1.193                   | 20.65                                 | 0.2460        | 0.995                         | -0.04                                | 585.7                  | 21.89                    | 0.00019           | 0.000008                        | 1.598                       | 19.50                                 | 0.2556        | 1.000                         | 0.01                                 | 721.5                  | 22.48                                 | 0.00000              | 0.00000                       |
| 1.393                   | 20.69                                 | 0.2873        | 1.000                         | 0.00                                 | 684.0                  | 21.93                    | 0.00000           | 0.000000                        | 1.748                       | 19.49                                 | 0.2796        | 1.000                         | 0.00                                 | 789.2                  | 22.47                                 | 0.00000              | 0.000000                      |
|                         |                                       |               |                               |                                      |                        |                          |                   |                                 |                             |                                       |               |                               |                                      |                        |                                       |                      |                               |

| R UN : | 21572-5 | X=58   | . z=          | 0.       |       |         |         |          | RUN:  | 21572-5 | X=70   | . Z* i | J.       |         |         |         |          |
|--------|---------|--------|---------------|----------|-------|---------|---------|----------|-------|---------|--------|--------|----------|---------|---------|---------|----------|
| ut =   | L8.73   |        | 01 -          | 0.3143   | 8ET A | . 0.524 | R D 2   | - 2121.  | - 10  | 18.10   |        | 01 -   | 0.3613   | BE TA   | = C.518 | PD2     | • Z361.  |
| CF/2*  | 0.0019  | 3      | 02 -          | 0.2175   | 9     | 0.715   | H       | = 1.445  | CF/2- | 0.0010  | 0      | 02     | 3.2728   | 0<br>04 | - 0 001 | 5 C     | 4 6 967  |
| F =    | -0.0013 | 8      | DC + 1        | 7.1540   | P+    | - 0.003 | 19 G    | - 7.011  |       | -0.0013 | 2      | 000    | 0.3/0/   | v       |         |         | - 00702  |
| K =    | -0.330E | -06    | D99 =         | 1.6292   | ¥0+   | +-0.031 | 4       |          | K *   | -0.2836 |        | 044 -  | 1.4110   |         |         | •       |          |
| ۷      | υ       | Y/DC   | U <i>7</i> U1 | 10-01170 | • ••  | U+      | TAU     | TAUL AM  | ۲     | υ       | Y/DC   | U/UI   | 10-011/0 | ٧+      | U+      | TAU     | TAULAM   |
| 0.008  | 2.78    | 0.0011 | 0.149         | -19.38   | 3.4   | 3.38    | 0.00175 | 0.001640 | 0.006 | 2.58    | 0.0007 | 0.142  | -19.89   | 2.4     | 3.30    | 0.00169 | 0.001929 |
| 0.009  | 3.00    | 0.0013 | 0.160         | -19.11   | 3.9   | 3.65    | 0.00174 | 0.001595 | 0.007 | 2.85    | 0.0008 | 0.158  | -19,53   | 2.8     | 3.66    | 0.00167 | 0.001703 |
| 0.011  | 3.47    | 0.0015 | 0.145         | -18.55   | 4.7   | 4.21    | 0.00171 | 0.001504 | 0.008 | 2.96    | 0.0010 | 0.164  | -19.39   | 3.2     | 3.80    | 0.00167 | 0.001636 |
| 0.013  | 4.06    | 0.0018 | 0.217         | -17.83   | 5.6   | 4.93    | 0.00167 | 0.001441 | 0.009 | 3.21    | 0.0011 | 0.177  | -19.08   | 3.7     | 4.11    | 0.00165 | 0.001383 |
| 0.015  | 4.52    | 0.0021 | 0.241         | -17.27   | 6.4   | 5.50    | 0.00164 | 0.001421 | 0.011 | 3.75    | 0,0013 | 0.207  | -18.38   | 4.5     | 4.80    | 0.00162 | 0.001377 |
| 0.018  | 5.32    | 0.0025 | 0.284         | -16.30   | 1.7   | 6.46    | 0.00159 | 0.001309 | 0.013 | 4.21    | 0.0016 | 0.232  | -17.80   | 5.3     | 5.39    | 0.00159 | 0.001380 |
| 0.021  | 6.09    | 0.0029 | 0.325         | -15.37   | 9.0   | 7.40    | 0.00155 | 0.001145 | 0.016 | 4.86    | 0.0019 | 0.269  | -16.96   | 6.2     | 6-23    | 0.00155 | 0.001242 |
| 0.024  | 6.73    | 0.0034 | 0.359         | -14.58   | 10.3  | 6.18    | 0.00151 | 0.000995 | 0.019 | 5.45    | 0.0023 | 0.301  | -16.20   | 1.1     | 6.44    | 0.00151 | 0.001120 |
| 0,028  | 7.38    | 0.0039 | 0.394         | -13.79   | 12.0  | 8.97    | 0.00147 | 0.000810 | 0,023 | 6.32    | 0.0027 | 0.349  | -15.09   |         | 8.10    | 0.00146 | 0.000790 |
| 0.033  | 8.03    | 0.0046 | 0.429         | -13.00   | 14.1  | 9.76    | 0.00144 | 0.000633 | 0.028 | 7.01    | 0,0033 | 0.387  | -14.21   | 11.4    | 8.98    | 0.00142 | 0.000780 |
| 0.038  | 8. 52   | 0.0053 | 0.455         | -12.41   | 16.3  | 10.35   | 0.00141 | 0.000506 | 0.033 | 7.72    | 0.0039 | 0.426  | -13.30   | 13.4    | 9.89    | 0.00138 | 0.000630 |
| 0.048  | 9.28    | 0.0067 | 0.495         | -11.49   | 20.6  | 11.27   | 0.00136 | 0.000353 | 0.043 | 8.57    | 0.0051 | 0.474  | -12.20   | 17.5    | 10.99   | 0.00133 | 0.000420 |
| 0.058  | 9.93    | 0.0041 | 0.530         | -10.70   | 24.8  | 12.06   | 0.00136 | 0.000263 | D.053 | 9.19    | 0,0063 | 0.500  | -11.41   | 21.5    | 11.78   | 0.00131 | 0.000300 |
| 0.073  | 10.38   | 0.0102 | 0.554         | -10.15   | 31.3  | 12.62   | 0.00136 | 0.000180 | 0.068 | 9.74    | 0.0081 | 0.538  | -10.71   | 27.6    | 12.47   | 0.00129 | 0.000191 |
| 0.088  | 10.89   | 0.0123 | 0.581         | -9.53    | 37.7  | 13.24   | 0,00135 | 0.000133 | 0.083 | 10.23   | 0.0099 | 0.565  | -10,08   | 33.7    | 13.11   | 0.00128 | 0.000144 |
| 0.108  | 11.78   | 0.0151 | 0.607         | ~9.06    | 46.3  | 13.70   | 0.00137 | 0.000094 | 0.103 | 10.53   | 0.0123 | 0.582  | -9.70    | 41.8    | 13.49   | 0.00129 | 0.000103 |
| 0.158  | 11.80   | 0.0221 | 0.630         | -8.43    | 67.7  | 14.33   | 0.00143 | 0.000059 | 0.153 | 11.20   | 0.0183 | 0.619  | -8.84    | 62.2    | 14.35   | 0.00131 | 0.000063 |
| 0.208  | 12.27   | 0.0291 | 0.655         | -7.85    | 89.1  | 14.91   | 0.00148 | 0.000045 | 0.203 | 11.60   | 0.0242 | 0.641  | -8,32    | 82.5    | 14.87   | 0.00135 | 0.00004  |
| 0.308  | 12.43   | 0.0431 | 0.690         | -7.05    | 131.9 | 15.71   | 0.00159 | 0.000036 | 0,303 | 12.20   | 0.0362 | 0.674  | -7.55    | 123.1   | 15.63   | 0.00142 | 0.000034 |
| 0.408  | 13.45   | 0.0570 | 0.718         | -6.43    | 174.8 | 16.34   | 0.00169 | 0.000033 | 0.403 | 12.79   | 0.0481 | 0.7(7  | -6.80    | 163.7   | 16.38   | 0.00147 | 0.000031 |
| 0.554  | 14.77   | 0.0780 | 0.759         | -5-69    | 239.0 | 17.27   | 0.00175 | 0.000030 | 0.553 | 13.39   | 0.0660 | 0.740  | -6.03    | 224.6   | 17.16   | 0.00151 | 0.000028 |
| 0. 204 | 15.00   | 0.0990 | 0.800         | -4.54    | 303.3 | 18.22   | 0.00170 | 0.000028 | 0.703 | 14.05   | 0.0839 | 0.776  | -5.19    | 285.6   | 18.00   | 0.00152 | 0.00020  |
| 0.908  | 16.00   | 0.1269 | 0.854         | -3.32    | 389.0 | 19.44   | 0.00151 | 0.000025 | 0.903 | 14.92   | 0.1078 | 0.824  | -4.07    | 366.8   | 19.11   | 0.00144 | 0.000023 |
| 1-108  | 16.95   | 0.1549 | 0.905         | -2.17    | 474.7 | 20.59   | 0.00119 | 0.000021 | 1.103 | 15.66   | 0.1317 | 0.865  | -3.12    | 448.L   | 20.06   | 0.00126 | 0.00020  |
| 1.308  | 17.75   | 0.1828 | 0.947         | -1.20    | 560.3 | 21.57   | 0.00078 | 0.000016 | 1.403 | 16.75   | 0.1675 | 0.926  | -1.72    | 569.9   | 21.47   | 0.00086 | 0.0001   |
| 1.508  | 18.36   | 0.2108 | 0.980         | -0- 46   | 646.0 | 22.31   | 0.00041 | 0.000011 | 1.703 | 17.61   | 0.2033 | 0.973  | -0.62    | 691.8   | 22.56   | 0.00043 | 0.00001  |
| 1.700  | 18.67   | 0.2387 | 0.997         | -0.08    | 731.7 | 22.68   | 0.00015 | 0.000007 | 2.003 | 18.05   | 0.2391 | 0.997  | -0.C6    | 813.7   | 23.13   | 0.00015 | 0.00000  |
| 1.454  | 18.73   | 0.2547 | 1.000         | -0.00    | 796.D | 22.76   | 0.00002 | 0.000005 | 2.303 | 18.09   | 0.2749 | 1.000  | -0.01    | 935.5   | 23.18   | 0.00001 | 0.000004 |
| 1.483  | 18.73   | 0.2632 | 1.000         | 0.00     | 806.7 | 22.76   | 0.00000 | 0.000000 | 2.403 | 18.10   | 0.2869 | 1.000  | 0.00     | 976.2   | 23.19   | 0.00000 | 0.00000  |

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| RUNI          | 21572-5         | X = 8 2  | . I-             | 0.               |       |                    |          |                    | RUNI          | 21572-5 | X=90.  | Z= 4             | 3.             |        |                    |                          |
|---------------|-----------------|----------|------------------|------------------|-------|--------------------|----------|--------------------|---------------|---------|--------|------------------|----------------|--------|--------------------|--------------------------|
| UI =<br>CF/2= | 17.53<br>0.0018 | z        | D1 - 1<br>OZ - 1 | 0.4091<br>0.2669 | BETA  | = 0.505<br>=-0.714 | RD2<br>H | = 2619.<br>= 1.426 | U1 =<br>CF/2= | 17.02   | 9      | D1 - 4<br>02 - 6 | .4641<br>.3228 | BE TA  | = 0.54Z<br>=-0.721 | RCZ = 2860.<br>H = 1.438 |
| F =           | -0.0013         | 0        | DC -             | 9.5894           | P+    | * 0.003            | 2 G      | = 7.001            | F •           | -0.0012 | 9      | DC +10           | .9695          | P+     | 0.0031             | G 7.198                  |
| × •           | -0.246E         | -06      | 099 = 3          | 2.1881           | V0+   | *-0.030            | 5        |                    | × =           | -0.236E | -06    | 099 = 3          | 2.3911         | ¥0+    | -0.0305            |                          |
|               |                 |          |                  |                  |       |                    |          |                    |               |         |        |                  |                |        |                    |                          |
| ۲             | U               | Y/DC     | 0701             | (0-01)/04        | Y+    | U+                 | TAU      | TAULAN             | Ŷ             | U       | Y/DC   | U/UI             | (0-01)/0       | I# ¥+  | U+                 | TAULAH                   |
| 0.008         | Z.61            | 0.0008   | 0.149            | -19.95           | 3.1   | 3.49               | 0.00164  | 0.001686           | 0.010         | 2. 10   | 0.0009 | 0.159            | -19.89         | 3.7    | 3. 75              | 0.001565                 |
| 0.009         | Z.79            | 0.0009   | 0.159            | -19.71           | 3.5   | 3.73               | 0.00163  | 0.001627           | 0.011         | 2.92    | 0.0010 | 0.171            | -19.59         | 4.0    | 4.05               | 0.001518                 |
| 0.011         | 3.19            | 0.0011   | Q. 1 82          | -19.17           | 4.3   | 4.27               | 0.00161  | 0.001509           | 0.013         | 3.32    | 0.0012 | 0.155            | -19.02         | 4.8    | 4.6Z               | 0.001423                 |
| 0.013         | 3.70            | 0.0014   | 0.211            | -18.50           | 5.1   | 4.94               | 0.00157  | 0.001369           | 0.015         | 3.69    | 0.0013 | 0.217            | -18.51         | 5.5    | 5.13               | 0.001313                 |
| 0.016         | 4.23            | 0.0017   | 0.Z4Z            | -17.78           | 6.Z   | 5.66               | 0.00154  | 0.001307           | 0.018         | 4.35    | 0.0016 | 0.256            | -17.60         | 6.7    | 6.04               | 0.001209                 |
|               | 4 97            | 0 0020   | 0 744            | -14 70           | 7 4   | £ 48               |          | 0.001187           |               |         |        |                  | -14 61         | 4 5    | 7 13               | 0 001007                 |
| 0.024         | 5.89            | 0-0025   | 0.336            | -15.56           | g. 1  | 7.88               | 0.00143  | 0.000974           | 0.025         | 5 07    | 0.0021 | A 351            | -15.35         | 10.4   | A. 29              | 0.000814                 |
| 0.079         | 6.68            | 0.0030   | 0.341            | -14.51           | 11.3  | 8.93               | 0.00138  | 0.000806           | 0.020         | 7 17    | 0.0025 | 0 421            | -13.68         | 14.7   | 40.0               | 0.000548                 |
| 0. 039        | 7.73            | 0.0041   | 0.441            | -13.10           | 15.2  | 10.34              | 0.00132  | 0.000530           | 0.036         | 7 44    | 0 0066 | 7.449            | -13.03         | 17.9   | 10.60              | 0.000397                 |
| 0.049         | 8.50            | 0.0051   | 0.485            | +12.07           | 19.1  | 11. 17             | 0.00128  | 0.000376           | 0.048         | 8 40    | 0.0057 | 0.491            | -11.98         | 23.5   | 11.66              | 0.000257                 |
|               |                 |          |                  | • • • • •        |       |                    |          |                    | 0.005         |         |        |                  |                |        |                    |                          |
| 0.064         | 9.18            | 0.0067   | 0.523            | -11.17           | 24.9  | 12.27              | 0.00125  | 0.000240           | 0.083         | 9,06    | 0.0075 | 0.532            | -11.05         | 31.0   | 12.59              | 0.000164                 |
| 0.079         | 9.65            | 0.0082   | 0.550            | -10.55           | 30.8  | 12.89              | 0.00123  | 0.000169           | 0.113         | 9.65    | 0.0103 | 0.567            | -10.24         | 42.3   | 13.40              | 0.000108                 |
| 0.099         | 10.10           | 0.0103   | 0.576            | -9.93            | 38.5  | 13.51              | 0.00121  | 0.000116           | 0.163         | 10.17   | 0.0148 | 0.597            | -9.52          | 61.0   | 14.12              | 0.000063                 |
| 0.149         | 10.63           | 0.0155   | 0.606            | -9.23            | 58.0  | 14.21              | 0.00122  | 0.000065           | 0.213         | 10.46   | 0.0194 | 0.614            | -9.11          | 79.8   | 14.52              | 0.000046                 |
| 0.199         | 11.02           | 0.0208   | 0.628            | - 8.71           | 77.5  | 14.73              | 0.00123  | 0.00047            | 0.313         | 11.00   | 0.0285 | 0.651            | -8.25          | 117.3  | 15.38              | 0.000034                 |
| 0 200         | 11.77           | 0.0312   | 0.671            | -7.70            | 116.4 | 15.74              | 0 00125  | 4.000034           |               |         | 0 0477 | 0 470            | -7 50          | 171 5  | 16.06              | 0.000029                 |
| 0.277         | 17.00           | 0.0416   | 0.684            | -7.40            | 155.4 | 16.04              | 0.00127  | 0.000030           | 0.403         | 11.70   | 0.0422 | A 117            | -6 70          | 228 7  | 16.94              | 0.000026                 |
| 0.549         | 17 68           | 0.0571   | 0.773            | -6.49            | 213.8 | 16.95              | 0.00129  | 0.000026           | 0.013         | 12.03   | 0.0334 | 0 740            | -5.68          | 304 7  | 17.95              | 0.000023                 |
| PPA. D        | 13.28           | 0.0729   | 0.758            | -5.68            | 277.2 | 17.76              | 0.00126  | 0.000024           | 0.013         | 12.93   | 0.0741 | 0.000            | -5.74          | 376.7  | 18.90              | 0.000022                 |
| 0.899         | 11.99           | 0.0937   | 0.798            | -4.74            | 350.0 | 18.70              | 0-00126  | 0.000023           | 1 212         | 14 50   | 0.0725 | 0.057            | -3.50          | 492.2  | 20.14              | 0.000019                 |
|               |                 |          | ••••             |                  |       | ••••               |          |                    |               | 14.30   | v      | ****             | 34,50          |        |                    |                          |
| 1.099         | 14.72           | 0.1146   | PE8.D            | -3.76            | 427.9 | 19.68              | 0.00117  | 0.000020           | 1.613         | 15.74   | 0.1470 | 0.895            | -2.47          | 604.6  | 21.16              | 0.000016                 |
| 1.399         | 15.63           | 0.1459   | 0.891            | -2.55            | 544.7 | 20.89              | 0.00095  | 0.000017           | 1.411         | 15.89   | 0.1653 | 0.933            | -1.58          | 679.6  | 22.06              | 0.000013                 |
| 1.699         | 16.52           | 0.1772   | 0.942            | -1.35            | 661.5 | Z2.09              | 0.00063  | 0.000013           | 2.113         | 16.50   | 0.1926 | 0.969            | -0.73          | 792.1  | 22.90              | 0.00009                  |
| 1.999         | 17.16           | 0.2085   | 0.979            | -0.50            | 778.3 | 22.94              | 0.00031  | 0.00009            | 2.413         | 16.88   | 0.2200 | 0.992            | -0.20          | 904.5  | 23.44              | 0.000006                 |
| 2.299         | 17.47           | 0.2397   | 0.997            | -0.08            | 895.1 | 23.36              | 0.00008  | 0.00006            | 2.713         | 17.01   | 0.2473 | 0.999            | -0.02          | 1017.0 | 23.62              | 0.00004                  |
| 3 400         | 17 85           | 0. 34.04 | 1 001            |                  | 073 0 | 77 44              |          | 0.000005           |               |         |        |                  |                | 1110 6 | 22.44              | 0.000000                 |
| 2 600         | 17 63           | 0.2000   | 1.001            | 0.02             | 011 B | 77 44              | 0.00000  | 0.000005           | 3.013         | L1.02   | 0.2747 | 1.000            | 0.00           | 1124.5 | 23.04              | 5. 500 500               |
| 4 . 799       | 41+23           | 0.2710   | 1.000            | 0.00             |       | 1.2144             | 0.00000  |                    |               |         |        |                  |                |        |                    |                          |

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## APPENDIX A

## MEASUREMENT OF TURBULENCE INTENSITIES AND REYNOLDS STRESS

The directional sensitivity of the hot-wire makes it possible to use it for measurement of individual components of the velocity vector. In what follows it will be shown how a slant hot-wire may be used for measurement of the statistical mean values of the three components of the turbulent fluctuations and the Reynolds stress  $-\overline{u'v'}$ . (The Reynolds stresses  $-\overline{v'w'}$  and  $-\overline{u'w'}$  can also be measured, but from reasons of symmetry they are known to be zero for the two-dimensional flows considered in this report. The postulate of zero value of  $-\overline{v'w'}$  and  $-\overline{u'w'}$  will be used to eliminate first order errors due to a lateral misalignment of the probe with the flow).

## 1. Directional Sensitivity of the Hot-Wire

As shown in Ref. [12] the response of the hot-wire may be approximated by

$$u_1^2 = u_2^2 + k_1^2 v_2^2 + k_2^2 w_2^2$$
, (A-1)

where  $u_2$ ,  $v_2$  and  $w_2$  are the velocity components in the coordinate system of the wire:  $v_2$  is the velocity component parallel to the wire,  $w_2$  is perpendicular to the wire and the wire supports and  $u_2$  is perpendicular to the wire and lies in the plane of the wire supports.  $u_1$ , the 'indicated velocity' is defined by Eq. (A-1); it may be thought of, for example, as the velocity one would deduce by using a calibration curve that was obtained for  $v_2 = w_2 = 0$ .  $k_1$  and  $k_2$  are constants which to some extent depend upon the hot-wire probe design. (The hot-wire used in the present experiments is a DISA which has a wire diameter of  $5\mu$ , length-to-diameter ratio of 200, and gold-plated wire ends to reduce prong

interference with the flow over the central sensitive part of the wire. For this probe design Ref. [12] indicates that  $k_1 = .2$  and  $k_2 = 1.02$ ).

2. Probe Position and Velocity Decomposition



Fig. A-1 Geometry and position of hot-wire probe (schematic). Probe shown for  $\theta = 0$ .

The hot-wire forms an angle,  $\phi$ , with a plane perpendicular to the probe axis (see Fig. (A-1)). For a slant hot-wire,  $\phi \neq 0$ .

In describing the position of the hot-wire probe in the flow we shall start from a 'mean flow' coordinate system  $(x_1,y_1,z_1)$  in which the <u>mean</u> velocity vector has the components  $(\overline{u}_1,0,0)$ . This coordinate system is in general not completely coincident with the laboratory coordinate system (x,y,z) in which the mean velocity vector is  $(\overline{u},\overline{v},\overline{w})$ . However, for the two-dimensional boundary layer flows considered in this report, one has that  $\overline{w} = 0$  and  $\overline{v} \ll \overline{u}$  (boundary layer approximation). In fact, for all flows considered it
is true that v < .02u, anywhere. The measured values of the correlations  $u'^2$ ,  $v'^2$ ,  $w'^2$  and -u'v' will strictly speaking be expressed in the  $(x_1, y_1, z_1)$  coordinate system, but a transformation into the laboratory plane of reference (x,y,z) would only result in a negligible correction. The hot-wire probe axis will be assumed to be aligned with the mean velocity vector, i.e. the probe axis is in the direction of  $x_1$ .

The angle of rotation around the probe axis is  $\phi$ . (See Fig. (A-1)). The relationship between the velocity components  $(u_1, v_1, w_1)$  in the 'mean flow' reference system  $(x_1, y_1, z_1)$  and the components  $(u_2, v_2, w_2)$  in the wire reference system is then

$$\begin{cases} u_{2} \\ v_{2} \\ w_{2} \\ w_{2} \end{cases} = \begin{bmatrix} \cos\phi & \sin\phi\cos\theta & \sin\phi\sin\theta \\ -\sin\phi & \cos\phi\cos\theta & \cos\phi\sin\theta \\ 0 & -\sin\theta & \cos\theta \end{bmatrix} \begin{pmatrix} u_{1} \\ v_{1} \\ w_{1} \end{pmatrix}$$
(A-2)

Inserting this result in Eq. (A-1) gives

$$\begin{split} u_{1}^{2} &= Au_{1}^{2} + Bv_{1}^{2} + Cw_{1}^{2} + Du_{1}v_{1} + Ev_{1}w_{1} + Fu_{1}w_{1} , \text{ where} \\ A &= \cos^{2}\phi + k_{1}^{2}\sin^{2}\phi \\ B &= (\sin^{2}\phi + k_{1}^{2}\cos^{2}\phi)\cos^{2}\theta + k_{2}^{2}\sin^{2}\theta \\ C &= (\sin^{2}\phi + k_{1}^{2}\cos^{2}\phi)\sin^{2}\theta + k_{2}^{2}\cos^{2}\theta \\ D &= (1-k_{1}^{2})\sin^{2}\phi\cos\theta \\ E &= (\sin^{2}\phi + k_{1}^{2}\cos^{2}\theta - k_{2}^{2})\sin^{2}\theta \\ F &= (1-k_{1}^{2})\sin^{2}\phi\sin\theta . \\ 162 \end{split}$$

## 3. The Hot-Wire Response to Turbulence

The velocity components in the 'mean flow' frame of reference may be expressed as

$$u_{1} = \overline{u} + u'$$

$$v_{1} = v' \qquad (A-4)$$

$$w_{1} = w'$$

where the primed velocities represent the turbulent fluctuations (assumed to have zero statistical mean values). Note that from now on we shall make no distinction between  $\overline{u}$ and  $\overline{u}_1$ ; also u', v' and w' in Eqs. (A-4) should really be  $u'_1$ ,  $v'_1$  and  $w'_1$  because they are expressed in the 'mean flow' frame of reference. Introducing the decomposition Eq. (A-4) into Eq. (A-3) results in

$$u_{i}^{2} = A\overline{u}^{2} + 2A\overline{u}u' + D\overline{u}v' + F\overline{u}w' + O(2)$$
, (A-5)

where O(2) represents terms of the order of the turbulent fluctuations squared.

Taking the square root of this expression and introducing the fluctuation of the indicated velocity,  $u_1^{i}$ , leads to

$$u'_{i} = \sqrt{A}u' + \frac{D}{2\sqrt{A}}v' + \frac{F}{2\sqrt{A}}w' + O(2)$$
. (A-6)

Squaring this equation and taking the time average one obtains:

$$\overline{u_{1}^{2}} = A\overline{u'}^{2} + \frac{D^{2}}{4A} \overline{v'}^{2} + \frac{F^{2}}{4A} \overline{w'}^{2} + D\overline{u'v'} + \frac{DF}{2A} \overline{v'w'} + F\overline{u'w'} + O(3),$$
(A-7)

where O(3) represents terms of the order of the triple correlations of the turbulent fluctuations. (See Section 6 for the explicit expression for O(3)). Equation (A-7) re-

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lates the mean square of the indicated velocity fluctuations to the correlations of the turbulent velocity fluctuations.

#### 4. <u>Measurement of Turbulent Velocity Correlations</u>

Note that the coefficients in Eq. (A-1) depend upon  $\phi$ , the slant of the hot-wire and  $\theta$ , the angle of rotation of the hot-wire probe. By performing measurements of  $\overline{u_i'}^2$ for six suitable combinations of  $\phi$  and  $\theta$  the resulting six equations (7) may be solved for the six unknown correlations,  $\overline{u'}^2$ ,  $\overline{v'}^2$ ,  $\overline{w'}^2$ ,  $\overline{u'v'}$ ,  $\overline{v'w'}$  and  $\overline{u'w'}$ . In practice, however,  $\overline{v'w'}$  and  $\overline{u'w'}$  will not be treated as unknowns, but put equal to zero from reasons of symmetry. This a priori knowledge of  $\overline{v'w'}$  and  $\overline{u'w'}$  permits elimination of an error that would occur if the probe axis of rotation accidentally were slightly misaligned with the x-y plane of the flow (see Section 5 for details).

Two hot-wire probes with different geometries were used:

1) A horizontal,  $\phi = \frac{\pi}{2}$  wire (hot-wire along z-axis) was used for the measurement of  $\overline{u'}^2$ . For  $\phi = \frac{\pi}{2}$ Eq. (A-7) becomes

$$\overline{u_1'^2} = \overline{u''^2} + O(3)$$
 (A-8)

The horizontal hot-wire thus measures  $\overline{u_i^2}$  directly.

2) A rotatable hot-wire probe that permitted measurement at six different  $\theta = \theta_m$  (i.e.  $\theta_m = (m-1)\frac{\pi}{6}$ ; m = 1, 2..6) was used for the measurement of  $\overline{v'^2}$ ,  $\overline{w'^2}$  and  $\overline{u'v'}$ . Using six measurements rather than the minimum required three, gives a degree of redundancy that is exploited to reduce the statistical uncertainty. Furthermore, by averaging the 'symmetric' measurements, the error due to a slight misalignment of the probe axis with the x-y plane of the flow is practically eliminated (see Section 5).

The unknowns  $\overline{v'^2}$ ,  $\overline{w'^2}$  and  $\overline{u'v'}$  are computed as follows:

Equation (A-7) is written for the angles  $\theta = \theta_m$ , m = 1,2..6. Then, putting  $\overline{u'w'} = \overline{u'w'} = 0$  and adding Eq. 1 to Eq. 2 and Eq. 4 to Eq. 2 gives

$$\begin{bmatrix} D_{m}^{2} & F_{m}^{2} \\ \frac{4}{4A} & \frac{4}{4A} & D_{m} \end{bmatrix} \begin{pmatrix} v'^{2} \\ w'^{2} \\ \frac{u'^{2}}{u'v'} \end{pmatrix} = \begin{pmatrix} \overline{u_{12}^{2}} & \overline{u_{16}^{2}} \\ (\overline{u_{12}^{2}} + \overline{u_{16}^{2}})/2 \\ \overline{u_{13}^{2}} + \overline{u_{15}^{2}} )/2 \\ \overline{u_{14}^{2}} \end{pmatrix} - A \begin{pmatrix} \overline{u'^{2}} \\ \overline{u'^{2}} \\ \overline{u'^{2}} \\ \overline{u'^{2}} \\ \overline{u'^{2}} \\ \overline{u'^{2}} \end{pmatrix} ; m=1,2..4.$$
(A-9)

In these equations  $\overline{u'}^2$  is considered a known quantity (since it has been measured by the horizontal hot-wire).

Note that  $\overline{u'v'}$  may be computed in two different ways from this set of equations, namely as

$$\overline{u'v'}_{(2)} = (\overline{u'_{11}^2} - \overline{u'_{14}^2})/2D_1$$
 or (A-10)

$$\overline{u'v'}_{(4)} = (\overline{u_{12}^{2}} + \overline{u_{16}^{2}} - \overline{u_{13}^{2}} - \overline{u_{15}^{2}})/4D_{2} .$$
 (A-11)

It was found that in general the difference between  $\overline{u'v'}_{(2)}$  and  $\overline{u'v'}_{(4)}$  is very small (less than 1%) and of random sign; but for the flows with the highest blowing rates

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the difference becomes of somewhat greater magnitude ( $\simeq 10\%$  for Run 112871-1).

Furthermore, for these flows it was found consistently that  $\overline{u'v'}_{(4)} > \overline{u'v'}_{(2)}$  for the measurements close to the wall. The reason for this is probably the neglect of the O(3) terms in Eq. (A-7). Section 6 will discuss this point in detail.

Since no reason was found for preferring either  $\overline{u'v'}_{(2)}$  or  $\overline{u'v'}_{(4)}$  the average of the two was used i.e.,

$$u'v'_{(6)} = (\overline{u_{i1}^{2}} + \overline{u_{i2}^{2}} + \overline{u_{i6}^{2}} - \overline{u_{i3}^{2}} - \overline{u_{i5}^{2}} - \overline{u_{i4}^{2}})/4D_1$$

Inserting the known values of  $\overline{u'}^2$  and  $\overline{u'v'}$  into the m = 1 and m = 2 equations of the system (A-9) one obtains:

$$\begin{bmatrix} D_{1}^{2} & F_{1}^{2} \\ D_{2}^{2} & F_{2}^{2} \end{bmatrix} \begin{pmatrix} \overline{v'^{2}} \\ \overline{w'^{2}} \\ w'^{2} \end{pmatrix} / 4A = \begin{pmatrix} \overline{u'^{2}} \\ \overline{u'^{2}} \\ \overline{u'^{2}} \\ u'^{2} \\ 12 \end{pmatrix} - \overline{u'^{2}} \begin{pmatrix} A \\ A \\ A \end{pmatrix} - \overline{u'v'} \begin{pmatrix} D_{1} \\ D_{2} \end{pmatrix} ,$$
(A-13)

from which  $\overline{v'^2}$  and  $\overline{w'^2}$  may be computed.

#### 5. Error Due to Misalignment of Probe

In this section it will be assumed that the axis of the probe is not perfectly aligned with the mean flow vector. Thus we shall assume that the probe axis is turned a small angle,  $\beta$ , around the  $y_1$ -axis and  $\gamma$  around the  $z_1$ -axis (see Fig. (A-2)). Here, as previously defined  $(x_1,y_1,z_1)$  is the 'mean flow' frame of reference. It will be shown that the measured values of  $v'^2$ ,  $w'^2$  and u'v' are independent of  $\beta$ . (This is because of the averaging of 'symmetric' measurements made possible by the postulate of



Fig. A-2 Misalignment of probe axis -  $(x_1,y_1,z_1)$  is the 'mean flow' coordinate system

 $\overline{v'w} = \overline{u'w} = 0$ ). It will also be shown that the error in the measured value of  $\overline{u'v'}$  is  $\simeq \gamma(u'^2 - v'^2)$ . The effect of  $\gamma$  on  $v'^2$  and  $w'^2$  has not been worked out.

Because of the assumed misalignment the velocity vector  $(u_1, v_1, w_1)$  in Eq. (A-2) should be replaced by

 $u' + \gamma v' + \beta w'$  $v' - \gamma u'$  $w' - \beta u'$ 

(to a first order approximation). The coefficients in Eq. (A-3) must as a consequence be modified to

$$A' = A - \gamma D - \beta F$$
  

$$B' = B + \gamma D$$
  

$$C' = C + \beta F$$
  

$$D' = D + 2\gamma (A-B) - \beta F$$
  

$$E' = E + \beta D + \gamma F$$
  

$$F' = F + 2\beta (A-C) - \gamma E$$
  
(A-14)

With these new coefficients the equations (A 9) which form the basis for the computation of  $\overline{u'^2}$ ,  $\overline{v'^2}$  and  $\overline{w'^2}$ become (terms of 2nd order in  $\beta$  and  $\gamma$  have been neglected).

$$\left( [c] + 2\gamma \left[ \left( \frac{D_{n}}{A} (A - B_{n}) + \frac{D_{n}^{3}}{4A^{2}} \right) \left( \frac{D_{2}F_{2}^{2}}{A^{2}} - \frac{2E_{2}F_{2}}{A} \right) (A - B_{n}) \right] \right) \left\{ \begin{array}{c} \overline{u'}^{2} + \overline{\Delta v'}^{2} \\ \overline{u'}^{2} + \overline{\Delta u'}^{2} \\ \overline{u'}^{2} \\ \overline{u'}^{2} + \overline{\Delta u'}^{2} \\ \overline{u'}^{2} \\ \overline{$$

Here [c] is the coefficient matrix from Eqs. (A-9).  $\Delta v'^2$ ,  $\Delta w'^2$  and  $\Delta u'v'$  represent the changes in the measured correlations due to the correction for misalignment. Note that the angle  $\beta$  (the rotation around  $y_1$ ) does not appear in this system of equations. Thus the measured correlations are independent of  $\beta$  to a first order approximation. We shall now evaluate  $\Delta u'v'$  by manipulating Eqs. (A-15) in a manner analogous to the treatment of Eqs. (A-7). Thus we obtain

$$\Delta \overline{u'v'_{(2)}} \doteq \gamma \left[ \frac{1 - k_1^2}{1 + k_1^2} \right]^2 \overline{v'^2} \quad \text{and}$$

$$\Delta \overline{u'v'_{(4)}} \doteq \gamma \left\{ \overline{u'^2} - \left[ \frac{3}{4} + \left( \frac{1 - k_1^2}{1 + k_2^2} \right)^2 \frac{1}{4} - \frac{3k_2^2}{2(1 + k_1^2)} \right] v'^2 \right\}_{(A-17)}$$

To a sufficient degree of accuracy for the error estimate, we have  $k_1^2 = 0$  and  $k_2^2 = 1$ , therefore

$$\Delta \overline{u'v'_{(2)}} \doteq \gamma [\overline{u'^2} - \overline{v'^2}] \qquad (A-16a)$$

$$\Delta \overline{\mathbf{u'v'}}_{(4)} \doteq \gamma [\overline{\mathbf{u'}^2} - \frac{1}{3} \overline{\mathbf{v'}^2}] \qquad (A-17a)$$

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For  $\gamma = .5^{\circ}$  (probably the greatest error of alignment in the present experiments) and  $\overline{u'^2/u_{\infty}^2} = .008$ ,  $\overline{v'^2/u_{\infty}^2} = .003$ (typical values close to the wall) we have

$$\Delta \overline{u'v'}/u_{\infty}^2 \simeq .00006$$

This may be considered to be the greatest error in the measured Reynolds stress, due to misalignment of the probe.

# 6. Error on u'v' Due to the Neglect of the Triple Correlations

The third order term, O(3), in Eq. (A-7) contains the non-zero triple correlations  $(\overline{u'v'w'} = \overline{u'^2w'} = \overline{v'^2w'} = 0$  for symmetry reasons):

$$O(3) = \frac{1}{u} \left[ \frac{u'v'^2}{B} + \frac{u'w'^2}{u'w'^2} + \frac{u'^2}{u'^2} + \frac{u'^2}{v'} + \frac{u'^3}{v'^3} \left( \frac{BD}{2A} - \frac{D^3}{8A^2} \right) + \frac{v'w'^2}{v'w'^2} \left( \frac{DC}{2A} - \frac{DF^2}{8A^2} + \frac{EF}{2A} \right) \right]$$
(A-18)

If the O(3) - terms are retained Eqs. (A-11) and (A-12), which are used for the evaluation of  $\overline{u'v'}$ , would be corrected by

$$\Delta \overline{u'v'}_{(2)} = - [O_1(3) - O_4(3)]/2D_1 \text{ and } (A-19)$$

$$\Delta \overline{u'v'}_{(4)} = - [0_2(3) + 0_6(3) - 0_3(3) - 0_5(3)]/4D_2$$
(A-20)

where  $O_n(3)$  means the third order terms from Eq. (A-18) evaluated at  $\theta = \theta_n$ . Note that in general the error introduced by ignoring the triple correlations is not the same for  $\overline{u'v'_{(2)}}$  and  $\overline{u'v'_{(4)}}$ .

As an example let us choose  $\phi = \frac{\pi}{4}$  and  $k_1^2 = .04$ (values corresponding to the probe used for the measurement of  $\overline{u'v'}$ ). We then obtain

$$\Delta \overline{u'v'}_{(2)} = (\overline{u'^2v'} + .044 \overline{v'^3} + .996 \overline{v'w'^2})/\overline{u}$$
 (A-19a)

$$\Delta \overline{u'v'_{(4)}} = (\overline{u'^2v'} + .758 \overline{v'^3} + .258 \overline{v'w'^2})/\overline{u} \qquad (A-20a)$$

Since the triple correlations were not measured in the present experiments, we can only arrive at a very crude estimate of their importance.

Laufer [26] reports triple correlations for pipe flow. To get a very rough estimate of the upper limit of the error we shall take the largest value of the largest of the three correlations as measured by Laufer. Thus

$$\frac{\overline{u'^2v'}}{\overline{u}} < (0.1) \frac{\overline{u'^2}\sqrt{\overline{v'^2}}}{\overline{u}}$$

so that the error becomes

$$\Delta \overline{u'v'} / u_{\infty}^{2} < (0.1) \frac{\overline{u'^{2}}}{u_{\infty}^{2}} \frac{\sqrt{v'^{2}}}{u_{\infty}} \frac{u_{\infty}}{\overline{u}}$$
(A-21)

As a first example let us consider a flow with zero pressure gradient and no transpiration (Run 120771-1). For x = 70 inches the measured friction coefficient is  $c_f/2 = 0.00180$ .  $c_f/2$  has been evaluated on the basis of a Reynolds stress measurement at y = 0.125 inches for which we obtain

 $\Delta u'v'/u_{\infty}^{2} < 0.00005$ 

The relative error on the friction coefficient due to the neglect of the triple correlations is therefore <3% .

Examination of a few more cases shows that the error unfortunately tends to increase with decreasing friction coefficient. It is therefore appropriate as our next example to consider the run with the lowest  $c_f/2$  for which the measured Reynolds stress has been used for determination of skin friction. This is Run 101371-2 (m = -0.15, F<sub>1</sub> = 0.002, m<sub>F</sub> = 0). For x = 70 inches we have  $c_f/2$  = .00053. The Reynolds stress measurement at y = 0.120 inches is used to determine the wall shear. The error is:

$$\Delta u' v' / u_{\infty}^2 < 0.00011$$

Thus under the most unfavorable circumstances and assumptions, the relative error on  $\rm c_f/2$  due to the neglected 3rd order correlation is < 20% .

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#### APPENDIX B

Description of the Computer Program "SLOT"

The basic feature of the computer program, SLOT, is an analytical modeling of the potential flow in the test section. The program serves three purposes:

- a. SLOT predicts slot-width distribution and rotameter settings required for a given set of free-stream velocity and transpiration boundary conditions. This makes the program an invaluable tool in setting up a new run. It accepts as input the measured dynamic pressure distribution and rotameter settings; from this it computes a measured velocity distribution and a measured distribution of the blowing fraction. These are then compared with the desired boundary conditions and necessary changes in slot widths and rotameter settings are computed.
- b. The program performs an analytical fit of the measured free-stream velocities. The velocity gradient is computed as the derivative of this fit.
- c. SLOT served as an aid in the initial design of the slots, in particular of their spacing.

#### 1. Principles of the Program

The predictive capability of SLOT is based on the following model of the physical situation:

The "real" flow is approximated by two-dimensional potential flow between infinitely long walls separated by a distance of h = 6 inches (the height of the test section). The effect of the slots is modeled by 23 line sinks in the upper wall.

The assumption of two-dimensional flow completely disregards the boundary layers on the bottom and side walls of the test-section. (The boundary layer on the top wall never develops because of the effect of the slots). Note, however, that the displacement thickness of the bottom wall boundary layer is never more than  $\simeq 1.5$  inches thick i.e. only a fraction of the height of the test section. Moreover, the function of the program is primarily to predict a <u>correction</u> to the slot-widths; a correction for the presence of the boundary layers would therefore amount to a correction on a correction.

The nominal free-stream velocity distribution is given by Eq. (2-12) as

$$u = u_1 \left( \frac{x - x_0}{x_1 - x_0} \right)^m$$
 (B-1)

This "ideal" distribution can obviously not be maintained upstream of the first slot (at x = x): A transitional length is required to permit establishment of the velocity distribution described by Eq. (B-1). It turns out that even maintaining the ideal velocity distribution only downstream from the first slot would require that the first slot be opened more than the slot design permits. It is therefore necessary to define a "modified" velocity distribution which can be approached in practice and which is identical to the "ideal" distribution a short distance downstream of the first slot. This "modified" distribution will be defined shortly.

The potential flow problem is solved by superposition of the contributions to the velocity field from each of the line sinks on a constant velocity. The sink strength distribution is obtained by requiring that the x-derivative of the potential flow velocity at y = 1 inch equals the derivative of the "modified" velocity distribution at the xposition of the 23 slots.

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The derivative of the modified velocity distribution will be taken to be

$$\frac{du}{dx} = \frac{mu_1}{x_1 - x_0} \left[ \left( \frac{x - x_0}{x_1 - x_0} \right)^{m-1} - \frac{1}{2} \exp \left( 6 \frac{x_1 - x_0}{x_1 - x_0} \right) \right] . \quad (B-2)$$

Note that the modification of the derivative of the "ideal" velocity distribution, Eq. (B-1), is represented by the term containing the exponential. By integrating the derivative expressed by Eq. (B-2) one obtains the "modified" velocity distribution:

$$u = u_{1} \left[ \left( \frac{x - x_{o}}{x_{1} - x_{o}} \right)^{m} + \frac{1}{12} m \exp \left( 6 \frac{x_{1} - x}{x_{1} - x_{o}} \right) \right]$$
(B-3)

The effect of the modification of the "ideal" velocity distribution is negligible a few inches downstream of the first slot.

Because it is required to have available a very realistic theoretical velocity distribution also upstream of the first slot it has been necessary to introduce the "practical" velocity distribution. It is defined as the distribution computed from the potential flow solution described above, and can presumably be approached very closely in practice. The "practical" velocity distribution therefore serves as a natural yardstick for the measured velocity distribution. The analytical expression for the "practical" velocity distribution is:

$$u = C + \frac{1}{2h} \sum_{i=1}^{23} Q_{i} \frac{\cosh \frac{\pi}{2h} (x - \xi_{1}) \sinh \frac{\pi}{2h} (x - \xi_{1})}{\cosh^{2} \frac{\pi}{2h} (x - \xi_{1}) - \cos^{2} \frac{\pi}{2h} (h - y)}; \quad y = 1 \text{ inch}$$
(B-4)

In this equation  $Q_i$  and  $\xi_i$  represent the sink strengths and positions respectively. h is the height of the testsection and C is a constant which is determined such that the velocity distribution from Eq. (B-4) matches the "modified" velocity distribution, Eq. (B-3), at  $x = x_1$ . The sink strengths,  $Q_i$ , are determined such that the x-derivative of u is equal to the derivative of the "modified" velocity distribution, Eq. (B-2), for  $x = \xi_i$ ; i = 1, 2...23.

## 2. Fit of the Measured Velocity

The "practical" velocity distribution Eq. (B-4) is subtracted from the 47 measured velocities. The resulting difference is then least square fitted by a fourth order polynomial. The sum of this fit and the practical velocity distribution represents a fit of the measured velocities. The x-derivative of this fit is obtained analytically.

#### 3. Correction of Slot-Widths

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The polynomial fit of the difference between the measured velocities and the "practical" velocity distribution represents the error,  $\Delta u(x)$ , in the measured velocity distribution. Elimination of this error is attempted by computing the change in sink strengths,  $\Delta Q_i$ , that will produce a change in the velocity distribution equal to  $-\Delta u(x)$ . The 23  $\Delta Q_i$  then correspond to the change in slot widths,  $\Delta t_{u,i}$ , required to make the measured velocity distribution equal to the "practical" distribution, Eq. (B-3).  $\Delta t_{u,i}$  is computed as

$$\Delta t_{u,i} = \frac{\Delta Q_i}{u_{slot,i}}, \text{ where } u_{slot,i} = \sqrt{\frac{2P_i}{K\rho}}. \quad (B-5)$$

The equation for the air velocity in the slot,  $u_{slot,i}$ , is based on the static pressure above ambient,  $p_i$ , at the location of the slot. K is an empirical loss coefficient (= 1.8).

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An error,  $\Delta F$ , in the blowing fraction is corrected by readjusting the rotameter settings according to the calibration curve. This adjustment of the transpiration flow rate will require a correction in the slot widths to avoid an effect on the velocity distribution in the test-section. This correction,  $\Delta t_{F,i}$ , is simply obtained by associating each porous plate with the two slots located just upstream and downstream of that plate. Therefore

$$\Delta t_{F,i} = \frac{\Delta F_{i-1}^{u} i - 1 + \Delta F_{i}^{u} i}{2u_{slot,i}} L, \qquad (B-6)$$

where  $\Delta F_i$  corresponds to the porous plate located between slots numbers i and i + 1; u<sub>i</sub> represents the free-stream velocity at the center of that plate and L is the plate width.

## 4. Potential Flow Field in Test Section

The "practical" velocity distributions for y = 0 and y = 3 inches are almost identical: there are no visible non-uniformities in the free-stream velocity due to the slots where the experimental boundary layer is formed on the floor of the test-section.

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